# GENERAL NOTES - STRUCTURAL

## 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 coring/cutting. 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.
1.) International Building Code (IBC **2018**) as amended by the city of Lee's Summit, Missouri
2.) Minimum Design Loads for Buildings and Other Structures (ASCE7-**16**)
3.) Specification for Structural Steel Buildings (AISC,360-**10**)
Member Design Basis is Allowable Stress Design (ASD)
Connection Design Basis is Allowable Stress Design (ASD)
4.) Structural Welding Code (AWS D1.3-98)
5.) Building Code Requirements for Structural Concrete (ACI 318-**11**)
6.) Building Code Requirements for Masonry Structures (ACI 530-**11**/TMS 402-**11**)
7.) North American Specification for the Design of Cold-Formed Steel Structural Members (AISI S100-07/S1-1)
8.) National Design Specification (NDS) for Wood Construction with 2012 Supplements (ANSI/AWC NDS-2012)
9.) Special Design Provisions for Wind and Seismic (AWC SDPWS-2012)
D. These drawings are for this specific project and no other use is authorized.

## 2. Structural Load Design Criteria

A. Dead Load:

| | |
|---|---|
| Deck Floors | = 35 psf |
| Apartment Floors | = 35 psf |
| Roofs | = 20 psf |
| Stairs | = 40 psf |

B. Live Load:

| | |
|---|---|
| Public Rooms | = 100 psf |
| Stairs | = 100 psf |
| Apartment Floors (Private Rooms) | = 40 psf |
| Corridors | = 100 psf |
| Storage Areas | = 125 psf |
| Decks/Balconies (Private) | = 60 psf |
| Decks/Balconies (Public) | = 100 psf |
| Roofs | = 20 psf |

C. Snow:
Pg = 20 psf, Ce = 1.0
Pf = 14 psf, Pm = 20 psf
Is = 1.0, Cs = 1.0, Ct = 1.0
Drift & unbalanced snow loads per ASCE/SEI 7-10
D. Lateral Loads:
1.) Wind V(ult) = 115 mph, exposure B. GCpi = +/- 0.18
Design wind pressures to be used for the design of exterior components and cladding material son the designated zones of walls and roof structures shall be per section 30.7 and table 30.7-2 of ASCE/SEI 7-10. Tabulated pressures shall be multiplied by effective are reduction factors, exposure adjustment factors, and topographic factors where applicable.
2.) Seismic: Ss = 0.099, S1 = 0.068, Ie = 1.0
Sds=0.086; Sd1=0.068; Site Classification C
Seismic Design Category B
Basic Seismic Force-Resisting System:
Above Podium:
A.17- Light-Framed Walls with Shear Panels of All Other Materials
R=2, Omega = 2 1/2, Cd = 2, V=0.043W
Podium:
A.2 - Ordinary Reinforced Concrete Shearwalls
R=4, Omega = 4, Cd = 2 1/2, V = 0.022W
E. This project is designed to resist the most critical effects resulting from the load combinations of section 1605.3 of the 2018 International Building Code.

## 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 6 gallons of water per 100 pounds of cement and not over 4 inches of slump.
B. All concrete for garage slab on grade 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 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).
C. All concrete for interior flatwork (except garage slab on grade) 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 flatwork 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 gallons of water per 100 pounds of cement, with 6% +/- 1% air entrainment, and a maximum of 4 inches of slump.
E. 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.
F. 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.
G. 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 lapped and sealed per manufacturer's recommendations. All penetrations, as well as damaged vapor barrier material shall also be sealed per manufacturer's recommendation prior to concrete placement. Install barrier per manufacturer recommended details at all discontinuous edges (at interior columns, exterior edge of slab, etc.) to ensure terms of warranty are followed. The vapor barrier shall be placed over free-draining granular material as prescribed by the project soils report.
H. 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.
I. 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.
J. Control joints in dirt formed slab to 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 side ratio shall not exceed 1 1/2 to 1.
K. Contractor shall verify that all concrete inserts, reinforcing and embedded items are correctly located and rigidly secured prior to concrete placement.
L. Construction joints in beams, slabs, and grade beams shall occur at midspan (middle third) unless noted otherwise. Provide 2 x 4 horizontal keys at construction joints for shear transfer.
M. 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:
1.) Concrete placed against earth: 3"
2.) Formed concrete against earth: 2"
3.) Slabs: 1"
4.) Beams or Columns: 1-1/2"
5.) Other 2"
All coverage shall be nominal bar diameter minimum.
C. All dowels shall be the same size and spacing as adjoining main bars (splice lap 48 bar diameters or 24" minimum unless noted otherwise).
D. 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.
E. Bars 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 noted otherwise.
F. At all holes in concrete walls and slabs, add 2 - #5 bars (opening dimension plus 96 diameters long) at each of four sides and add 2 - #5 x 5'-0" 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.
G. 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 seal waterstop style number 772 (by Greenstreak Inc. or approved equal) on dirt face side of wall at all walls below grade.
H. Accessories shall be as specified in latest edition of the ACI Detailing Handbook and the concrete Reinforcing Steel Institute Design Handbook. Maximum accessory spacing shall be 4'-0" on center, and all accessories on exposed surfaces are to have plastic coated feet.
I. All slabs and stairs not shown otherwise shall be 6" thick with #4 bars at 12" on center each way. All exterior porches and stoops not otherwise detailed may be constructed in any standard manner, solid or hollow, but must be reinforced with #4 bars at 12" on center each way minimum. Porches shall be doweled to adjacent walls or grade beams with #4 bars at 12" on center, hooked or embedded 48 diameters into both members. Slope porches 1/8" per foot for drainage unless noted otherwise.
J. Allow 1 ton of reinforcing bars #4 or larger to be used as directed in the field for special conditions by the engineer of record (labor for placing same to be included).

## 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 A500, grade B. Fabrication and erection shall be in accordance with AISC 303-05 "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 brick 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, Vn/Omega, 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. Connection design and shop drawing preparation shall be completed under the direct supervision of a professional engineer licensed in the state the project is located and shop drawings and connection calculations shall bear his seal.
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 bolt. At braced frames washers shall be welded all around to the column base plate with 3/16" fillet weld.
F. Design, fabrication and erection of all open-web bar joists shall comply with the recommendations of the Steel Joist Institute (SJI). Joists shall be designed to support loads given in the standard load tables of SJI Specs and Tables plus an additional point load of 200 lbs. on the top or bottom chord at any location without additional web reinforcing.
G. All K-series joists shall bear 2-1/2" minimum on structural steel beams and be welded to the beams with 1 1/2" of 1/8" fillet weld each side (minimum).
H. All K-series joists bearing on masonry walls shall have 6" x 3/8" x 6" bearing plates set in bond beams. Bearing plates shall be located not more than 1/2" from the face of the wall on the bearing side. Joists shall bear 4" minimum on bearing plates and be welded to beams or bearing plates with 1-1/2" of 1/8" fillet weld each side (minimum).
I. All steel joists shall have horizontal bar or angle bridging per Steel Joist Institute Specifications. Provide rigid x-bridging in addition to and matching horizontal bridging where joists are discontinuous unless horizontal bridging is anchored to wall top and bottom. Joist sweep allowance shall comply with AISC Standard Practice.
J. Steel joists shall be designed for **20**psf net uplift resulting from wind loading as measured **12**ft. from a building corner, **15**psf net uplift as measured 8ft. from the building edge, and **10**psf otherwise.
K. All openings in steel joist roof to have 3x3x1/4 angle frame set between joists. Support mechanical equipment with 4x4x5/16 angles laid between joists framed to 4x4x5/16 angles (length equals mechanical unit dimension plus distance each end to next panel point) laid parallel to and welded to top and/or bottom cord of joists to distribute load to joist panel points.
L. All steel joists shall have a midspan camber approximately equal to that recommended by the Steel Joist Institute Specifications.
M. Design and installation of steel decking shall comply with the recommendations of the Steel Deck Institute (SDI). All decking shall be galvanized unless noted otherwise.
N. Allow **2.0** 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 specified 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 uncracked concrete shall have been tested and qualified for use in accordance with ACI 355.2 and ICC-ES AC193. All anchors shall be installed per the anchor manufacturer's written instructions.
C. Adhesive anchors used in cracked and 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 AC01. 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 AC58. 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 AC58 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 CFS Engineer, the report number is 18-5125 and there telephone number is 913-627-9040.
B. Spread footings, grade beams, and retaining walls are designed to bear on shale bedrock capable of safely sustaining 10,000 psf.
C. Retaining walls are designed for an active lateral load of 45 pcf equivalent fluid pressure.
D. Basement walls are designed for an at rest lateral load of 60 pcf equivalent fluid pressure. See General Note 3H for wall bracing requirements.
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. Moisture content in soils beneath building locations should not be allowed to change after footing 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. Concrete Masonry Units

A. Concrete block used in exterior walls or load bearing walls shall meet the requirements of ASTM C90 and have a minimum net compressive strength of 1900 psi and laid up using type N mortar such that f'm equals 1500 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, laid 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 style 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:
1.) Vertical reinforcing shall be a minimum of 1 - #5 bar in 6" and 8" walls and 2 - #5 bars in 10" and 12" walls at 24" OC, 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.
2.) 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).
F. 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.
G. 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 wall with 1" air space or compressible material and support per architectural detail.
H. Unless otherwise covered on architectural plans or specifications, vertical control joints in masonry construction shall be 3/8" wide, full height of wall. Joints shall be spaced 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.
I. Lintels over all openings up to 8'-0" wide in new and existing masonry walls not otherwise covered shall be one 6x3 1/2x5/16 angle for each 4" width of masonry. All exterior lintels to be galvanized.
J. 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.

## 9. Light Gage Metal Structural Framing

A. All load bearing, light gage 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 Structural Members."
D. All framing components shall be cut squarely or at an angle to fit squarely against abutting members. Splicing of axially loaded members is not permitted. 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 to floor and overhead members. Special anchorage requirements required for wind bracing shall be as shown on 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.

## 10. 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 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 900 psi minimum and an elastic modulus of 1,600,000psi unless noted otherwise. All joist, truss members, and headers to be No. grade 2 (min.) unless noted otherwise. All lumber for exterior decks and balconies shall be treated Southern Yellow Pine No. 2 grade.
C. Blocking of stud bearing walls and shear walls shall be solid, matching sheathing joints.
D. Joist blocking and bridging shall be solid wood or cross 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 2304.9.1 of the International Building Code. Floor sheathing shall be APA rated Sturd-I-Floor and bonded Sturd-I-Floor, exposure 1, glued and nailed with 8d ring shank nails or # 10 screws at 12" on center to all supports. Sheathing of shear walls or roof diaphragms shall be edge nailed with 8d common nails at 6" on center and nailed to intermediate framing and/or blocking members with 8d common nails at 12" on center unless otherwise noted on the drawings. All floor sheathing shall be installed with 1/8 inch gaps between panel edges and end joints.
F. Sill plates shall be bolted to concrete walls or steel beams with 1/2" diameter bolts at 32" on center. Sill plates in direct contact with concrete or masonry shall be treated lumber.
G. Joist hangers shall have Uniform Building Code approval and shall be equal to Simpson Strong Tie "LUS" for wood application and "LB" for steel weld-on application.
H. Service condition - dry with moisture content at or below 19% in service.
I. Laminated veneer lumber (LVL) shall have an allowable flexural stress (Fb) of 2,600 psi (reduced by size factor) and an elastic modulus (E) of 1,900,000 psi.
J. Parallel Strand Lumber (PSL) shall have an allowable flexural stress (Fb) of 2,900 psi (reduced by size factor) and an elastic modulus (E) of 2,000,000 psi.
K. 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 and manufactured 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.
L. 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. Such drawings shall bear the seal of a professional engineer, registered in the state of the project location. Shop drawings shall also be submitted to the local government controlling agency when requested by that agency.
M. 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 handling, installing and bracing metal-plate connected wood trusses (HIB-91, booklet) and the latest edition of ANSI/TPI-1.
N. The truss manufacturer shall supply all hardware and fasteners for joining truss members together and fastening truss members to their supports. Metal connector plates shall be manufactured by a member of the Wood Truss Council of America (WTCA) and shall be 20 gauge minimum. Connector plates shall meet or exceed ASTM A653, grade 33, with ASTM A924 galvanized coating designation G60.
O. 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.
P. Contractor shall coordinate truss layout for openings and penetrations required by other trades including for plumbing, HVAC, electrical, roof access hatches, chases, etc.
Q. Pre-engineered floor truss and I-Joist design load and deflection criteria are as follows:

| | |
|---|---|
| Top Chord Dead Load | = 20psf |
| Top Chord Live Load | = Per General Note 2A |
| Bottom Chord Dead Load | = 5psf |
| Allowable Total Load Deflection | = L/360 |
| Allowable Live Load Deflection | = L/480; ½" maximum |

R. Pre-engineered roof truss design load and deflection criteria are as follows:

| | |
|---|---|
| Top Chord Dead Load | = 15psf |
| Top Chord Live Load | = 20psf |
| Bottom Chord Dead Load | = 10psf |
| Allowable Total Load Deflection | = L/300 |
| Allowable Live Load Deflection | = L/360 |

Roof trusses shall be designed for wind uplift loads indicated in Building Components & Cladding Wind Loads Diagram.

## 11. Shop Drawing Review

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. Prior to submittal of a shop drawing or any related material to Bob D. Campbell and Company, Inc., the GC shall:
1.) Review each submission 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.
2.) Review and approve each submission.
3.) Stamp each submission as approved.
C. Bob D. Campbell and Company, Inc. shall assume that no submission comprises a variation unless the GC advises Bob D. Campbell and Company, Inc. with written documentation.
D. Bob D. Campbell and Company, Inc. shall review shop drawings and related materials with comments provided that each submission has met the above requirements. Bob D. Campbell and Company, Inc. shall return without comment unrequired material or submissions without GC approval stamp.
E. 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.
1.) Concrete mix designs and material certificates including admixtures and compounds applied to the concrete after placement.
2.) Reinforcing steel shop drawings including erection drawings and bending details. Bar list will not be reviewed for correct quantities.
3.) Elevations of all reinforced concrete masonry walls at a scale no smaller than 3/8" = 1'-0" showing all required reinforcing.
4.) Grout mix designs (for CMU).
5.) Construction and control joint plans and/or elevations.
6.) Structural steel shop drawings including erection drawings and piece details. Include joist, 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.
7.) Structural steel connection design calculations submitted concurrently with structural steel shop drawings.
8.) Miscellaneous anchors shown on the structural drawings.
9.) Wood truss design calculations and detailed erection and fabrication drawings. Standard stick framing shop drawings need not be submitted.
10.) Standard details and bridging information for light gage metal framing. Erection plans and details for light gage metal joists and lintels spanning more than 6'-0" shall be submitted. Standard wall framing need not be submitted.

## 15. 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 discrepancies shall be brought to the immediate attention of the contractor for correction, then, if uncorrected, to the proper design authority, building official 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 notification to the inspector when items requiring inspection are ready to be inspected and provide access for those inspections.
1.) Shop Fabrication – structural steel and steel bar joist per Section 1704.2.5 unless AISC certified shop
2.) Shop Fabrication – pre-engineered wood trusses per Section 1704.2.5 unless TPI certified shop
3.) Steel Construction per Section 1705.2 and the quality assurance requirements of AISC 341 Chapter J (as referenced by AISC 360)
4.) Cold-Formed Steel per Section 1705.2.2 and the quality assurance requirements of SDI QA/QC.
5.) Concrete Construction per Section 1705.3 and Table 1705.3
a. Reinforcing Steel Placement
b. Reinforcing Steel Welding
c. Cast in Place Anchors
d. Post Installed Anchors
e. Design Mix Verification
f. Concrete Sampling and Testing
g. Concrete Placement
h. Concrete Curing
6.) Masonry Construction per Section 1705.4 and the quality assurance requirements of TMS 402/ACI530/ASCE5 and TMS602/ASS0.1/ASCE6 **[Level B]**
7.) Verification of Soils per Table 1705.6
8.) Wood Lateral System (periodic)
a. Wood shearwalls (include sheathing, rim board and bottom plate attachments)
b. Portal frames
c. Shear wall and portal frame holdowns
d. Shear wall tension rod system
9.) Wood Gravity Framing and Placement (adjust frequency of random sampling where indicated as required)
a. Heavy timber/SCL/glulam beams and supports (periodic)
b. Headers and jambs (random sampling)
c. Bearing walls (random sampling)
d. Connector/hardware installation (random sampling)
e. Floor and roof trusses (random sampling)

## 16. 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 copies in any manner without the written permission of Bob D. Campbell and Company, Inc. Exception: 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 or in any manner.
B. I, Clark A. Basinger, 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 this 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 seals and signed statements may appear elsewhere in the construction document package.

## ESTIMATED BUILDING MOVEMENT TABLE

| FLOOR | ACCUMULATIVE WOOD SHRINKAGE | HEIGHT OF BRICK | ACCUMULATIVE BRICK EXPANSION |
|---|---|---|---|
| ROOF | 1.35" | 40' | 0.44" |
| 5th FLOOR | 1" | 30' | 0.33" |
| 4th FLOOR | 0.7" | 20' | 0.22" |
| 3rd FLOOR | 0.35" | 10' | 0.11" |

**Wood Shrinkage Notes:**

Bob D. Campbell & Company takes no responsibility for the naturally-occurring shrinkage that will occur in a wood structure or the impact the movement will have on the architectural, mechanical, electrical and plumbing systems that are designed by others. The analysis provided below are estimated values in accordance with IBC Section 2304.3.3 and indicate the systems and/or routing of the systems shall be designed to accommodate the movement. Failure to follow the considerations below can result in a failure of the impacted components within the system.

Estimated values are based on the following moisture content in the framing
a. At install (MC) = 19%
b. At equilibrium (EMC) = 8%

Reference wall sections on this sheet for estimated cumilative values per floor.

The following is a list of recommendations to minimize potential issues related to wood shrinkage and veneer expansion. Veneer expansion is seasonable and variable depending on sun exposure. The majority of wood shrinkage will occur in the first 24 months of occupancy with minor seasonal variations.
1. MEP System Considerations
a. Postpone MEP installation as long as possible to allow as much dead load to be applied--allowing construction gaps to close.
b. Provide oversized and vertically slotted holes at pipe horizontal penetration and notches. Refer to typical notching and cutting of stud wall detail for additional considerations on size limitations.
c. Plumbing pipe and electrical conduit joints and connections shall be flexible and allow for expansion/contraction to prevent a rigid assembly.
d. Hangers and necessary rigid connections shall be adjusted prior to completion of construction or closing of wall/ceiling assembly.
e. Horizontal vent penetrations through exterior veneers shall be provided with double flashing.
f. All sheet metal vertical down spouts shall have intermediate slip joints.
g. Roof drains shall utilize adjustable fittings that are adjusted back to the roof finish sheathing elevation at the completion of construction and then shall be adjusted as required to maintain proper drainage.
2. Architectural System Considerations
a. At stucco, EIFS and thin set veneer systems provide horizontal expansion joints, slip joints with appropriate flashing, this includes horizontal system between changes in veneer material.
b. At brick and stone veneers provide veneers ties designed to accommodate differential movement.
c. Refer to architectural window and door head and sill; parapet; and horizontal material changes for specific horizontal gap requirements between materials.
d. Around rigid (concrete/CMU) stair and elevator towers and at fire separation walls provide adjustable thresholds or transitions.
3. Construction Tolerance Considerations
a. All studs shall be cut level, square and tight to top and bottom plates to reduce any additional shortening of the building due to nesting.
b. All wood structural panels on the walls shall have a 1/2" relief gap at each floor level to reduce the potential for bulging.
c. All floor sheathing shall have 1/8" gaps around all four sides at time of install to allow for expansion.
d. All shearwall holdown shall be checked and retighten immediately prior to sheathing of the walls. If a continuous rod system is utilized for holdowns or uniform uplift anchors, the take-up devise pins shall be verified to have been pulled prior to sheathing the walls.
e. Delay placement of gyp topping around rigid (concrete/CMU) stair and elevator towers until completing of construction.
4. Material Storage and Protection
a. All stored material shall remain covered and elevated from the elements to reduce the potential for an increase in moisture content.
b. Do not allow water to pond on the floor sheathing. Provide drain holes in the floor sheathing as required to relieve any water that might temporary pond.
5. Post Occupancy Consideration
a. Recommend a review of roof drains every 3 months for the first 24 months of occupancy and then annually and adjusted as needed.
b. Recommend a review of vertical joints at exterior doors, windows and at changes in materials. Caulked as needed as shrinkage occurs and original joint fails.
c. Remedial self-leveling work may be required around concrete or CMU stair and elevator towers as needed as shrinkage occurs.

## NAILING SCHEDULE (REFER TO NOTES #1 and #2)

| No. | CONNECTION | ATTACHMENTS | (REF NOTE #3 and #4) |
|---|---|---|---|
| 1 | JOIST TO SILL OR GIRDER | 3- 3" x 0.131" NAILS-TOENAIL | 3-8d NAILS-TOENAIL |
| 2 | BRIDGING TO JOIST | 2- 3" x 0.131" NAILS-TOENAIL EACH END | 2-8d NAILS-TOENAIL EACH END |
| 3 | SOLE PLATE TO JOIST OR BLOCKING | 3" x 0.131" NAILS AT 8"o.c.- TYPICAL FACE NAIL 4-3" x 0.131" NAILS AT 6"o.c. BRACED WALL PANELS | 16d BOX NAILSZ AT 16"o.c. MAX. FACE NAILING 3-16d BOX NAILS AT 16"o.c. BRACED WALL PANEL |
| 4 | TOP PLATE TO STUD | 3- 3" x 0.131" NAILS-END NAIL | 2-16d NAILS-END NAIL |
| 5 | STUD TO SOLE PLATE | 4- 3" x 0.131" NAILS-TOENAIL OR 3- 3" x 0.131" NAILS-END NAIL | 4-8d NAILS-TOENAIL OR 2-16d NAILS-END NAIL |
| 6 | DOUBLE STUDS | 3" x 0.131" NAILS AT 8"o.c.-FACE NAIL | 16d BOX NAILS AT 24"o.c. MAX. FACE NAIL |
| 7 | DOUBLED TOP PLATES | 3" x 0.131" NAILS AT 12"o.c.-FACE NAIL | 16d BOX NAILS AT 16"o.c. MAX. FACE NAIL |
| 8 | DOUBLE TOP PLATE LAPS AND INTERSECTIONS | 12-3" x 0.131" NAILS | 8-16d NAILS |
| 9 | BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE | 3-3" x 0.131" NAILS -TOENAIL | 3-8d NAILS-TOENAIL |
| 10 | RIM JOIST TO TOP PLATE | 3" x 0.131" NAILS AT 6"o.c.-TOENAIL | 8d NAILS AT 6"o.c. MAX.-TOENAIL |
| 11 | TOP PLATE LAPS AND INTERSECTIONS | 3- 3" x 0.131" NAILS-FACE NAIL | 2-16d NAILS-FACE NAIL |
| 12 | CONTINUOUS HEADER, TWO PIECES | 3" x 0.131" NAILS AT 10"o.c. ALONG EACH EDGE | 16d NAILS AT 16"o.c. MAX. ALONG EACH EDGE-TOENAIL |
| 13 | CEILING JOISTS TO PLATE | 5- 3" x 0.131" NAILS-TOENAIL | 3-8d NAILS-TOENAIL |
| 14 | CONTINUOUS HEADER TO STUD | 4- 3" x 0.131" NAILS-TOENAIL | 4-8d NAILS-TOENAIL |
| 15 | CEILING JOISTS, LAPS OVER PARTITIONS | 4- 3" x 0.131" NAILS-FACE NAIL | 3-16d NAILS-FACE NAIL |
| 16 | CEILING JOISTS TO PARALLEL RAFTERS | 4- 3" x 0.131" NAILS-FACE NAIL | 3-16d NAILS-FACE NAIL |
| 17 | RAFTER TO PLATE | 3- 3" x 0.131" NAILS-TOENAIL | 3-8d NAILS-TOENAIL |
| 18 | 1" BRACE TO EACH STUD AND PLATE | 2- 3" x 0.131" NAILS-FACE NAIL | 2-8d NAILS-FACE NAIL |
| 19 | BUILT-UP CORNER AND MULTIPLE STUDS | 3" x 0.131" NAILS AT 16"o.c. | 16d NAILS AT 24"o.c. MAX. |
| 20 | BUILT-UP GIRDER AND BEAMS | 3" x 0.131" NAILS AT 24"o.c. FACE NAILED TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES 3- 3" x 0.131" NAILS AT ENDS AND EACH SPLICE | 20d NAILS AT 32"o.c. MAX. TOP AND BOTTOM, STAGGERED ON 0PPSITE SIDES. 2-20d NAILS AT ENDS AND EACH SPLICE |
| 21 | BUILT-UP LAMINATED VENEER LUMBER BEAMS | 3" x 0.131" NAILS AT 6"o.c. TOP AND BOTTOM ALONG EDGE | 16d NAILS AT 12"o.c. TOP AND BOTTOM ALONG EDGE |
| 22 | 2" PLANKING | 4- 3" x 0.131" NAILS AT EACH SUPPORT | 16d NAILS AT EACH SUPPORT |
| 23 | RIM BOARD TO TRUSS | 2- 3" x 0.131" FACE NAILS (IT/IB @ EA. TRUSS) | 2- 10d NAILS - FACE NAILS (IT/IB @ EA. TRUSS) |
| 24 | BUILD-UP STUD-PACK COLUMNS | REFER TO DETAIL 3/S003 | REFER TO DETAIL 3/S003 |

NOTES:
1.) ALL NAILS SHALL BE AS NOTED UNLESS OTHERWISE SPECIFIED ON STRUCTURAL DRAWINGS OR ALTERNATE PROVIDED BY ENGINEER IN WRITING.
2.) CONDITIONS NOT SPECIFIED SHALL BE IN ACCORDANCE WITH CURRENT INTER

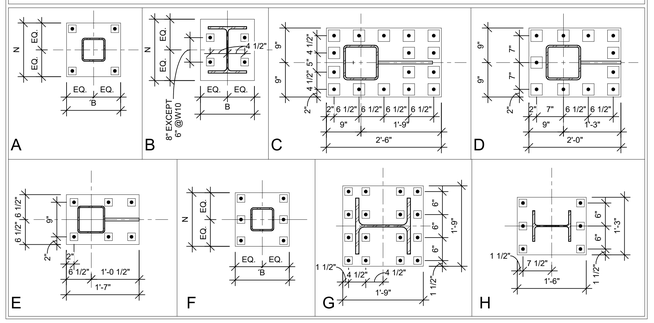
# COLUMN BASE PLATE SCHEDULE

| TYPE | COLUMN | BASE PLATE (NxBxT) | SHAPE | ANCHOR RODS | EMBEDMENT |
|---|---|---|---|---|---|
| 1 | PER PLAN | 16"x16"x1 1/2" GRADE 50 | F | 6- 7/8" DIA. GRADE 105 | 2'-0" |
| 2 | PER PLAN | 12"x12"x3/4" | A | 4- 3/4" DIA. | 1'-4" |
| 3 | PER PLAN | 13"x13"x3/4" | A | 4- 3/4" DIA. | 1'-4" |
| 4 | PER PLAN | 16"x16"x1" | B | 4- 7/8" DIA. GRADE 105 | 2'-0" |
| 5 | PER PLAN | 15"x15"x1 1/4" | B | 4- 3/4" DIA. | 1'-4" |
| 6 | PER PLAN | 17"x17"x1 1/2" | B | 4- 3/4" DIA. | 1'-4" |
| 7 | PER PLAN | 17"x17"x1 3/4" | B | 4- 3/4" DIA. | 1'-4" |
| 8 | PER PLAN | 18"x18"x1 3/4" | B | 4- 3/4" DIA. | 1'-4" |
| 9 | PER PLAN | 19"x19"x1 3/4" | B | 4- 3/4" DIA. | 1'-4" |
| 10 | PER PLAN | 20"x20"x1 3/4" | B | 4- 3/4" DIA. | 1'-4" |
| 11 | PER PLAN | 21"x21"x2" | B | 4- 3/4" DIA. | 1'-4" |
| 12 | PER PLAN | 30"x18"x2" GRADE 50 | C | 16- 1" DIA. GRADE 105 | 2'-0" |
| 13 | PER PLAN | 24"x18"x2" GRADE 50 | D | 11- 7/8" DIA. GRADE 105 | 2'-0" |
| 14 | PER PLAN | 19"x13"x1 1/4" GRADE 50 | E | 6- 3/4" DIA. GRADE 105 | 2'-0" |
| 15 | PER PLAN | 17"x17"x1 3/4" | B | 4- 7/8" DIA. GRADE 105 | 1'-4" |
| 16 | PER PLAN | 21"x21"x1" GRADE 50 | G | 16- 7/8" DIA. GRADE 105 | 1'-4" |
| 17 | PER PLAN | 18"x15"x1" GRADE 50 | H | 6- 7/8" DIA. GRADE 105 | 1'-4" |

NOTES:

1. SEE PLAN FOR ORIENTATION OF COLUMNS.
2. PROVIDE PLATE WASHED & EMBEDDED PLATE PER SCHEDULE @ ALL ANCHOR BOLTS.
3. U.N.O. ALL THREADED ROD A.B's SHALL BE F1554 (36ksi) MATERIAL.

# BASE PLATE SHAPE (NOT TO SCALE)




# Structural Foundation Schedule

NOTE:
1) EXTERIOR FOOTINGS OR FOOTING AT GRADE BEAM SHALL MATCH GRADE BEAM DEPTH AND BE PLACED WITH GRADE BEAM. PROVIDE SPECIFIED REBAR TOP AND BOTTOM WITH 4 STANDEES TO SUPPORT MATS.
2.) PROVIDE REINFORCING PER SCHEDULE EACH WAY IN TOP OF FTG. AT ALL MOMENT FRAME AND BRACED BAY COLUMNS.
3.) CENTER FOOTINGS ON COLUMNS AND/OR WALL CENTER LINES PER PLAN UNLESS NOTED OTHERWISE (U.N.O.).

| Type Mark | Length | Width | Footing Thickness | Bottom Bars | Quantity (E.W. Bott) | |
|---|---|---|---|---|---|---|
| 3.0 | 3'-0" | 3'-0" | 1'-4" | Rebar : # 4 | 4 | |
| 3.0A | 3'-0" | 3'-0" | 2'-8" | Rebar : # 4 | 4 | |
| 3.5 | 3'-6" | 3'-6" | 1'-4" | Rebar : # 4 | 5 | |
| 4.0 | 4'-0" | 4'-0" | 1'-4" | Rebar : # 4 | 5 | |
| 4.5 | 4'-6" | 4'-6" | 1'-4" | Rebar : # 4 | 6 | |
| 5.0 | 5'-0" | 5'-0" | 1'-6" | Rebar : # 5 | 6 | |
| 5.5 | 5'-6" | 5'-6" | 1'-8" | Rebar : # 5 | 7 | |
| 5.5A | 5'-6" | 5'-6" | 2'-8" | Rebar : # 5 | 8 | |
| 6.0 | 6'-0" | 6'-0" | 1'-10" | Rebar : # 5 | 8 | |
| 6.5 | 6'-6" | 6'-6" | 2'-0" | Rebar : # 5 | 9 | |
| 7.0 | 7'-0" | 7'-0" | 2'-2" | Rebar : # 5 | 11 | |
| 7.5 | 7'-6" | 7'-6" | 2'-4" | Rebar : # 5 | 11 | |
| 8.0 | 8'-0" | 8'-0" | 2'-6" | Rebar : # 5 | 13 | |
| 8.5 | 8'-6" | 8'-6" | 2'-8" | Rebar : # 5 | 14 | |
| 9.0 | 9'-0" | 9'-0" | 2'-10" | Rebar : # 6 | 12 | |
| 9.5 | 9'-6" | 9'-6" | 3'-0" | Rebar : # 6 | 14 | |
| 10.0 | 10'-0" | 10'-0" | 1'-10" | Rebar : # 6 | 17 | |
| 10.5 | 10'-6" | 10'-6" | 3'-0" | Rebar : # 6 | 16 | |
| 11.5 | 11'-6" | 11'-6" | 3'-0" | Rebar : # 6 | 8 | each way top & bottom |
| 14.0 | 14'-0" | 14'-0" | 3'-0" | Rebar : # 6 | 22 | each way top & bottom |

# CONCRETE PILASTER SCHEDULE

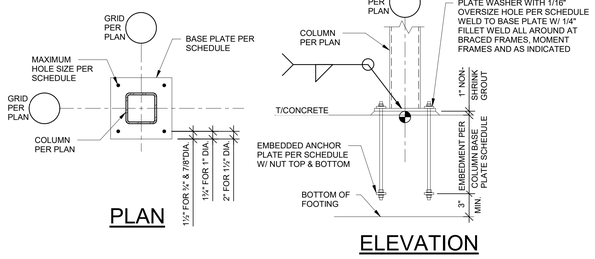
| CONCRETE (PSI): 3500 | | | REBAR (KSI): 60 | | |
|---|---|---|---|---|---|
| MARK | SIZE | VERT. REINF. | TIES | TIE SPACING | SHAPE |
| P1 | 24"x24" | (8) #8 | (2) #3 | (3) @ 1 1/2"o.c. TOP REMAINDER @ 12"o.c. | |
| P2 | 36"x24" | (10) #8 | (3) #3 | (3) @ 1 1/2"o.c. TOP REMAINDER @ 12"o.c. | |
| P3 | 28"x24" | (8) #8 | (2) #3 | (3) @ 1 1/2"o.c. TOP REMAINDER @ 12"o.c. | |
| P4 | 32"DIA. | (10) #6 | #3 | (3) @ 1 1/2"o.c. TOP REMAINDER @ 12"o.c. | |
| P5 | 24"DIA. | (8) #6 | #3 | (3) @ 1 1/2"o.c. TOP REMAINDER @ 12"o.c. | |

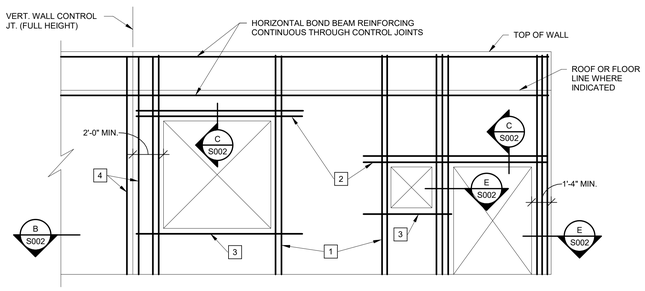
NOTE:
1.) ALL PILASTER SHALL HAVE (3) ADDITIONAL TIES @ TOP 5".
2.) PILASTER ARE TO BE CENTERED ON STEEL COLUMN U.N.O.

# COLUMN BASE PLATE AND ANCHOR-ROD CRITERIA

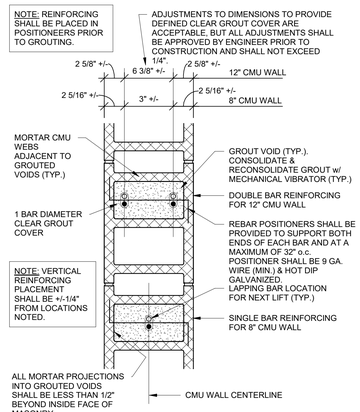
| ANCHOR-ROD DIAMETER. | MAX. BASE PLATE HOLE DIAMETER. | MIN. PLATE WASHER SIZE. | MIN. PLATE WASHER THICKNESS | EMBEDDED ANCHOR PLATE SIZE |
|---|---|---|---|---|
| 3/4" | 1 5/16" | 2" | 1/4" | 1/2"x2 1/2"x2 1/2" |
| 7/8" | 1 9/16" | 2 1/2" | 5/16" | 1/2"x2 1/2"x2 1/2" |
| 1" | 1 7/8" | 3" | 3/8" | 5/8"x3"x3" |
| 1 1/4" | 2 1/8" | 3 1/2" | 1/2" | 5/8"x3 1/2"x3 1/2" |
| 1 1/2" | 2 3/8" | 4" | 1/2" | 5/8"x3 1/2"x3 1/2" |
| 1 3/4" | 2 7/8" | 4 1/2" | 5/8" | 3/4"x3 1/2"x3 1/2" |
| 2" | 3 1/4" | 5" | 3/4" | 3/4"x3 1/2"x3 1/2" |
| 2 1/2" | 3 3/4" | 5 1/2" | 7/8" | 3/4"x3 1/2"x3 1/2" |
| | | | | |

NOTES:
1. HOLE SIZES PROVIDED ARE BASE ON ANCHOR ROD SIZE AND CORRELEATE WITH ACI 117 (ACI, 2010)
2. CIRCULAR OR SQUARE WASHERS MEETING THE WASHER SIZE ARE ACCEPTIBLE.
3. HOLE IN PLATE WASHER SHALL BE 1/16" LARGER THAN ANCHOR DIAMETER.=



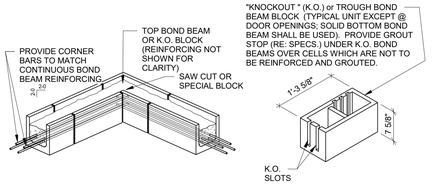




TYPICAL CMU WALL REINFORCING AT OPENINGS




NOTE: ALL MASONRY VOIDS AND BOND BEAMS TO BE GROUTED SHALL BE FREE OF DEBRIS AND MORTAR DROPPINGS PRIOR TO GROUTING. ANY MASONRY w/ DROPPINGS OR DEBRIS OBSERVED IN VOIDS SHALL BE REJECTED.

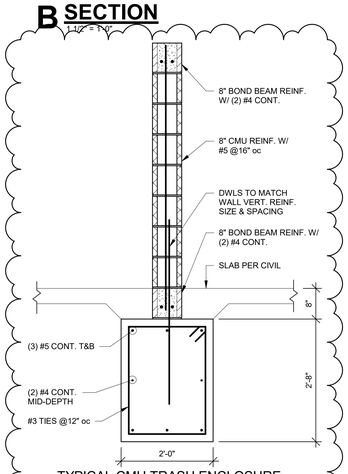
TYPICAL REBAR POSITIONING DETAIL




TYPICAL BOND BEAM DETAIL AT CORNER OF CMU WALL

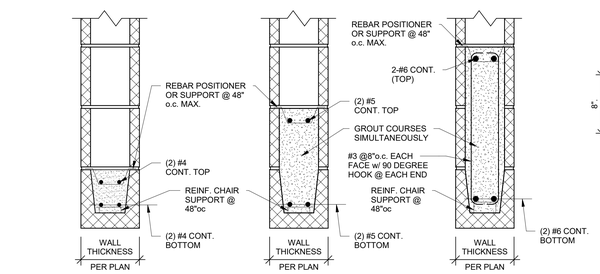
## D DETAIL
3/4" = 1'-0"

## B SECTION
1 1/2" = 1'-0"




TYPICAL CMU TRASH ENCLOSURE

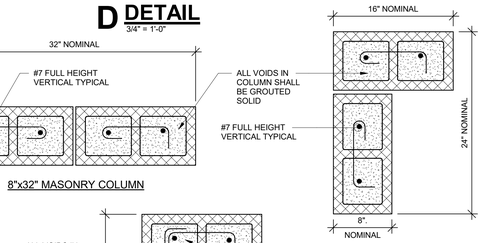
## 7 SECTION
3/4" = 1'-0"




OPENINGS UP TO 4'-0" | OPENINGS 4'-0" TO 7'-4" | OPENINGS 7'-4" TO 12'-0"

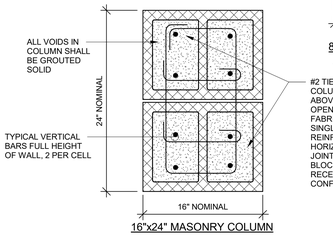
TYPICAL LINTELS AT ALL CMU WALLS (U.N.O.)

## C SECTION
1 1/2" = 1'-0"




8"x32" MASONRY COLUMN

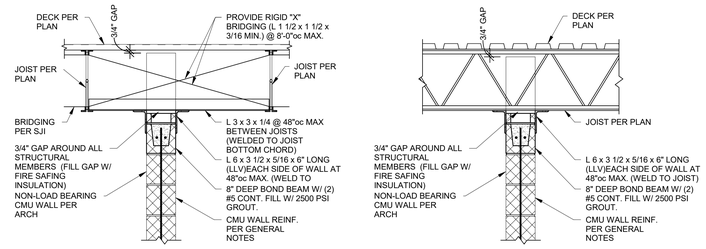
8"x24"x8"x16" CORNER MASONRY COLUMN




16"x24" MASONRY COLUMN

## E SECTION
1 1/2" = 1'-0"

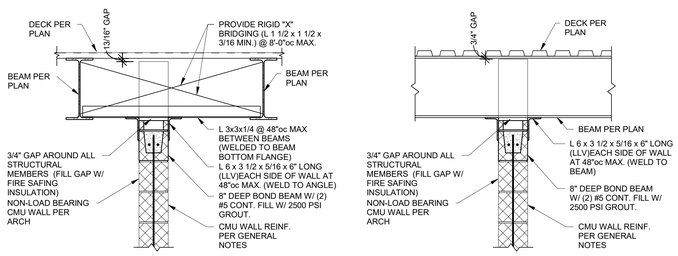
## A CMU WALL ELEVATION
1 1/2" = 1'-0"




WALL PARALLEL TO JOIST | WALL PERPENDICULAR TO JOIST

TYPICAL BRACING DETAILS FOR NON-LOAD-BEARING CMU WALLS THAT EXTEND TO DECK
(REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION)

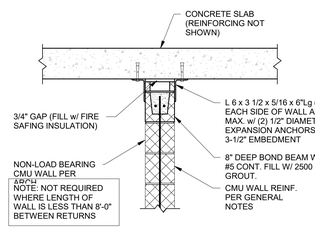
## 1 SECTION
3/4" = 1'-0"




WALL PARALLEL TO JOIST | WALL PERPENDICULAR TO JOIST

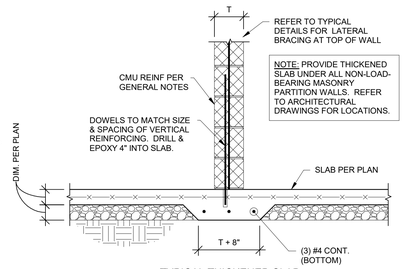
TYPICAL BRACING DETAILS FOR NON-LOAD-BEARING CMU WALLS THAT EXTEND TO DECK
(REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION)

## 2 SECTION
3/4" = 1'-0"



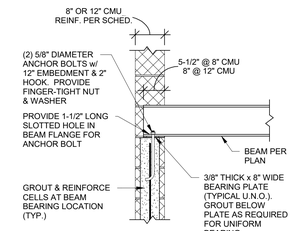

TYPICAL TOP OF CMU WALL BRACING BELOW CONCRETE SLAB

## 3 SECTION
3/4" = 1'-0"



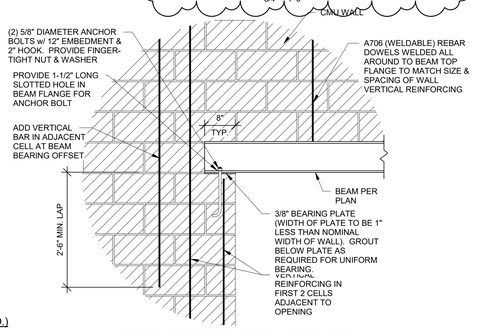

TYPICAL THICKENED SLAB
(UNDER NON-LOAD-BEARING MASONRY)

## 4 SECTION
3/4" = 1'-0"




TYPICAL WIDE FLANGE BEAM BEARING ON CMU (U.N.O.)

## 5 SECTION
3/4" = 1'-0"




TYPICAL STEEL LINTEL DETAIL AT CMU WALL

## 6 SECTION
3/4" = 1'-0"

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
CHRISTOPHER J. BUSHNELL
NUMBER PE-2010026837
04-11-2020
PROFESSIONAL ENGINEER

CLIENT
ARCHITECT
STRUCTURAL ENGINEER
CIVIL ENGINEER
MECHANICAL ENGINEER
PLUMBING ENGINEER
ELECTRICAL ENGINEER

CLIENT NAME
TR.i Architects
STRUCTURAL
CIVIL
ENGINEER
PLUMBING
ELECTRICAL

# Summit at West Pryor

TR.i Architects
Architects of the Possible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DATE: 7.29.19 (SHELL PACKAGE)

REVISIONS

| | | |
|---|---|---|
| 8 | REVISION 3 | 04.03.20 |

DWG BY: Author

TR.i PROJECT NO.: 18-046

SHEET NO.

S002

SCHEDULES & CMU DETAILS

## TYPICAL MASONRY REINFORCING NOTE:

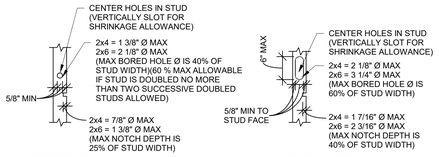
ALL INTERIOR & EXTERIOR MASONRY WALLS SHOWN ON ARCHITECTURAL AND STRUCTURAL DRAWINGS ARE TO BE REINFORCED HORIZONTALLY WITH BOND BEAMS (2 - #5 BOTTOM) AT BOTTOM COURSE, TOP COURSE, JOIST BEARING ELEVATION AND AT 8'-0" MAXIMUM O.C. AND VERTICALLY AS INDICATED ON DRAWINGS. THESE WALLS ARE TO BE ANCHORED TOP AND BOTTOM TO THE FOUNDATION, FLOOR, OR ROOF PER TYPICAL DETAILS. THE VERTICAL REINFORCING IS CONTINUOUS (IN 6'-6" MAXIMUM LENGTHS, LAPPED 2'-6" MINIMUM). FILL BLOCK CELLS AND BOND BEAMS WITH 2,500psi GROUT. RE: DETAILS "A" THROUGH "E" ON THIS SHEET.

LEGEND:

1. FULL HEIGHT VERTICAL BARS AS JAMB REINFORCING IN FIRST 2 CELLS ADJACENT TO OPENING. REINFORCE EACH CELL WITH SIZE & QUANTITY OF BAR TO MATCH WALL REINFORCING (1 BAR TYPICAL IN 8" WALLS AND 2 BARS TYPICAL IN 12" WALLS).
2. LINTEL REINFORCING PER SECTION C. EXTEND 2'-0" PAST EDGE OF OPENING ON EACH SIDE (TYPICAL).
3. 2-#5 CONTINUOUS HORIZONTAL BARS AS SILL REINFORCING IN 8" COURSE BELOW OPENING (U.N.O.). EXTEND 2'-0" PAST EDGE OF OPENING ON EACH SIDE (TYPICAL).
4. FULL HEIGHT VERTICAL BARS PER MASONRY VERTICAL REINFORCING SCHEDULE LOCATED IN END CELL AT EACH SIDE OF VERTICAL WALL CONTROL JOINTS.

GENERAL CRITERIA: (SECTION A CONTINUED):

1. VERTICAL REINFORCING BARS SHALL BE DOWELED TO FOUNDATION WITH A DOWEL OF MATCHING SIZE AND SPACING.
2. CONTRACTOR SHALL COORDINATE AND VERIFY OPENINGS IN MASONRY WALLS. OPENINGS SHALL BE DETAILED ON REINFORCING STEEL SHOPE DRAWING ELEVATIONS.
3. VERTICAL CONTROL JOINTS IN MASONRY WALLS SHALL BE 3/8" WIDE, FULL HEIGHT OF WALL. JOINTS SHALL BE SPACED AT A MAXIMUM OF 24'-0" ON CENTER AND NOT LESS THAN 2'-0" FROM THE EDGE OF ANY OPENING. ALL HORIZONTAL JOINT REINFORCING SHALL BE DISCONTINUOUS AT CONTROL JOINTS. ALL BOND BEAM HORIZONTAL REINFORCING SHALL BE CONTINUOUS THROUGH CONTROL JOINTS. CONTRACTOR SHALL COORDINATE AND VERIFY ALL CONTROL JOINT LOCATIONS.

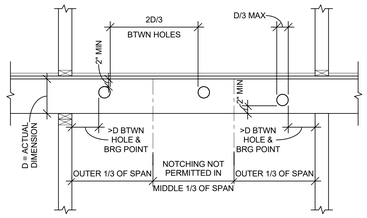



TYPICAL NOTES FOR BEARING WALLS

1. HOLES SHALL NOT BE LOCATED IN THE SAME STUD AS A CUT OR NOTCH
2. CONTACT ARCHITECT PRIOR TO CUTTING OR NOTCHING TO VERIFY SIZE AND LOCATION IF HOLE IS GREATER THAN 20% STUD WIDTH OR NOTCHES GREATER THAN 10% STUD WIDTH ARE REQUIRED IN TWO OR MORE CONSECUTIVE STUDS
3. NOTCHES OR HOLES NOT PERMITTED IN JAMBS, STUD PACKS AND AT ENDS OF SHEARWALLS
4. STUD SHOES ARE NOTE AN ACCEPTABLE REMEDIATION OF OVER-NOTCHED OR OVER-CUT STUDS WITHOUT PRIOR APPROVAL BY EOR
5. SLOT HOLES VERTICALLY FOR SHRINKAGE ALLOWANCE.

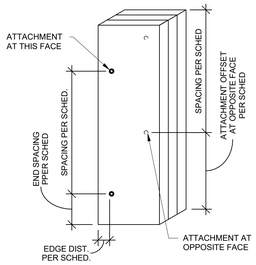
ALLOWABLE HOLES/NOTCHES IN WALL STUDS

## 1 DETAIL
3/4" = 1'-0"




NOTE:
1. CONTACT ARCHITECT PRIOR TO CUTTING JOISTS TO VERIFY SIZE & LOCATION.
2. DETAIL APPLIES TO 2x FRAMING ONLY. REFER TO ENGINEERED OR COMPOSITE LUMBER MANUFACTURER'S RECOMMENDATIONS AT PSLs, LVLS, LSLs & GLULAM.

## 2 DETAIL
3/4" = 1'-0"




TYPICAL MULTI-PLY STUD CONNECTION

## 3 DETAIL
1 1/2" = 1'-0"

BUILT-UP STUD PACK COLUMN ATTACHMENT SCHEDULE

| NUMBER OF PLIES | ATTACHMENT AT COLUMN STUD PACKS SUPPORTING BEAMS | ATTACHMENT AT COLUMN STUD PACKS SUPPORTING TRUSSES |
|---|---|---|
| 2-PLY MEMBERS | 8d NAILS AT 12"oc, 1" FROM EDGE, w/ OPPOSITE EDGE NAILED FROM OPPOSITE SIDE OFFSET 6", @ 12"oc w/ FIRST NAIL 2" FROM EA. END | 8d NAILS AT 12"oc, 1" FROM EDGE, w/ OPPOSITE EDGE NAILED FROM OPPOSITE SIDE OFFSET 6", @ 12"oc w/ FIRST NAIL 2" FROM EA. END |
| 3-PLY MEMBERS | 20d NAILS AT 16"oc, 1 1/2" FROM EDGE w/ OPPOSITE EDGE NAILED FROM OPPOSITE SIDE OFFSET 8", @ 16"oc w/ FIRST NAIL 4" FROM EA. END | 8d NAILS AT 12"oc, 1" FROM EDGE, w/ OPPOSITE EDGE NAILED FROM OPPOSITE SIDE OFFSET 6", @ 12"oc w/ FIRST NAIL 2" FROM EA. END |
| 4-PLY MEMBERS | 1/4"Øx5" SIMPSON SDS SCREWS AT 16"oc, 1 1/2" FROM EDGE w/ OPPOSITE EDGE SCREWED FROM OPPOSITE SIDE OFFSET 8", @ 16"oc w/ FIRST SCREW 4" FROM EA. END | 3 PLIES ATTACHED PER 3-PLY ATTACHMENT w/ 4th PLY ATTACHED w/ 8d NAILS AT 12"oc IN 2 ROWS, 1 1/2" FROM EDGE, OFFSET ROW 6" |
| 5-PLY MEMBERS | 1/4"Øx6" SIMPSON SDS SCREWS AT 12"oc, 1 1/2" FROM EDGE w/ OPPOSITE EDGE SCREWED FROM OPPOSITE SIDE OFFSET 6", @ 12"oc w/ FIRST SCREW 4" FROM EA. END | 3 PLIES ATTACHED PER 3-PLY ATTACHMENT w/ 4th & 5th PLY ATTACHED w/ 8d NAILS AT 12"oc IN 2 ROWS, 1 1/2" FROM EDGE, OFFSET ROW 6" |
| 6-PLY MEMBERS | 1/4"Øx8" SIMPSON SDS SCREWS AT 12"oc, 1 1/2" FROM EDGE w/ OPPOSITE EDGE SCREWED FROM OPPOSITE SIDE OFFSET 6", @ 12"oc w/ FIRST SCREW 4" FROM EA. END | 3 PLIES ATTACHED PER 3-PLY ATTACHMENT w/ 4th PLY ATTACHED w/ 8d NAILS AT 12"oc IN 2 ROWS, 1 1/2" FROM EDGE, OFFSET ROW 6" AND 5th AND 6th PLIES ATTACHED w/ 1/4"Øx5" SIMPSON SDS SCREWS @ 12"oc IN 2 ROWS, 1 1/2" FROM EDGE, OFFSET ROSS 6"oc w/ FIRST SCREW 4" FROM EA. END |

NOTES:
1. ALL BUILT-UP STUD PACKS MUST ALIGN FLOOR-TO-FLOOR WITH SOLID BLOCKING (SQUASH BLOCKS) AT FLOOR CAVATIES.
2. EXTEND ALL STUD PACKS TO COLUMNS UNLESS NOTED OTHERWISE.
3. ALL NAILS ARE COMMON NAILS UNLESS NOTED OTHERWISE.

WOOD FLOOR/ROOF FRAMING HEADERS/BEAMS & JAMBS SCHEDULE

| MARK | HEADER | JAMB TYPE # (U.N.O. W/ COLUMN SCHEDULE) " 4 " (2nd FLOOR FRAMING, TYP U.N.O.) | " 3 " (3rd FLOOR FRAMING, TYP U.N.O.) | " 2 " (4th FLOOR FRAMING, TYP U.N.O.) | " 1 " (ROOF FRAMING, TYP U.N.O.) | NOTES |
|---|---|---|---|---|---|---|
| B1-# | (2) 2x10 | HUC28-2 & 2 KING | HUC28-2 & 2 KING | HUC28-2 & 2 KING | | REFER TO DETAILS 8 & 8A ON S330 |
| D1-# | (3) 2x8 | 1 JACK / 1 KING | 1 JACK / 1 KING | 1 JACK / 1 KING | 1 JACK / 1 KING | BALC BMS TO BE TREATED PER GEN. NOTE '12B' |
| D2-# | (3) 2x8 | 1 JACK / 2 KING | 1 JACK / 2 KING | 1 JACK / 1 KING | 1 JACK / 1 KING | |
| E1-# | (3) 2x10 | 2 KING | 2 KING | 2 KING | 1 JACK / 2 KING | BALC BMS TO BE TREATED PER GEN. NOTE '12B' |
| E2-# | (3) 2x10 | HUC210 (MAX) & 3 KING | HUC210 (MAX) & 3 KING | HUC210 (MAX) & 3 KING | | REFER TO DETAILS 8 & 8A ON S330 |
| F1-# | (3) 2x12 | 1 JACK / 2 KING | 1 JACK / 2 KING | 1 JACK / 1 KING | 2 KING | BALC BMS TO BE TREATED PER GEN. NOTE '12B' |
| G1-# | **AT FLOOR:** 1 1/4" x 18" LSL RIM BOARD w/ 18"Dp PRE-ENG TRUSS **AT ROOF:** GIRDER TRUSS | @2x4 WALL: 5 KING @2x6 WALL: 2 KING | @2x4 WALL: 4 KING @2x6 WALL: 2 KING | @2x4 WALL: 3 KING @2x6 WALL: 2 KING | @2x4 WALL: 2 KING @2x6 WALL: 2 KING | DESIGN TRUSS TO SPAN OPENINGS FOR DL = 175plf, LL = 200plf (UNFACTORED) RE: DETAIL 7B/S330 |
| G2-# | **AT FLOOR:** 1 1/4" x 18" LSL RIM BOARD w/ 18"Dp PRE-ENG TRUSS **AT ROOF:** GIRDER TRUSS | @2x4 WALL: 6 KING @2x6 WALL: 3 KING | @2x4 WALL: 5 KING @2x6 WALL: 2 KING | @2x4 WALL: 4 KING @2x6 WALL: 2 KING | @2x4 WALL: 3 KING @2x6 WALL: 2 KING | DESIGN TRUSS TO SPAN OPENINGS FOR DL = 175plf, LL = 200plf (UNFACTORED) RE: DETAIL 7B/S330 |
| H1-# | 5 1/2" x 9 1/2" GLULAM | 3 KING | 2 KING | 2 KING | | BALC BMS TO BE TREATED PER GEN. NOTE '12B' |
| H2-# | 8 3/4" x 13 1/2" GLULAM | HGU9.00-SDS (ONE FLANGE CONCEALED) | HGU9.00-SDS (ONE FLANGE CONCEALED) | HGU9.00-SDS (ONE FLANGE CONCEALED) | | BALC BMS TO BE TREATED PER GEN. NOTE '12B' |
| L1-# | (3) 1 3/4" x 7 1/4" LVL | 2 JACK / 1 KING | | | | |
| N1-# | (3) 1 3/4" x 9 1/4" LVL | 2 JACK / 2 KING | | | 2 KING | |
| O1-# | (3) 1 3/4" x 14" LVL | 2 JACK / 2 KING | | 3 KING | | |
| S1-# | (3) 1 3/4" x 14" LVL | 4 KING | 3 KING | | | |
| W1-# | (3) 1 3/4" x 18" LVL | 3 KING | 3 KING | 2 KING | 2 KING | |

NOTES:
1. JAMB STUDS SHALL MATCH SIZE & GRADE OF WALL STUDS U.N.O.
2. WHERE BEAM IS NOTED "UPSET", ALL JAMB STUDS NOTED WILL EXTEND TO DOUBLE TOP PLATE.
3. ALL EXTERIOR LUMBER TO BE TREATED AGAINST MOISTURE. REFER TO NOTE 11B ON SHEET S001 FOR FIRE RETARDANT TREATED HEADER AND STUD REQUIREMENTS.
4. PROVIDE SQUASH BLOCKS AT TRUSSES & BLOCKING FRAMING WHERE JAMBS OR STUD PACKS ARE DISCONT AND IN TRUSS CAVITY. QUANTITY TO MATCH JAMB OR STUD PACK ABOVE.
5. PROVIDE ½" PLYWOOD SPACER PLATES AT INTERIOR HEADERS CONSTRUCTED WITH 2x LUMBER.
6. AT CONTRACTOR'S OPTION, PROVIDE GLULAM IN LIEU OF PSL OF EQUAL OR GREATER STRENGTH.
7. REFER TO DETAIL 3/S003 FOR MULTI-PLY MEMBER CONNECTION REQUIREMENTS.
8. ATTACH JAMB & KING STUDS TOGETHER PER CONNECTION TYPE 24 ON NAILING SCHEDULE ON S001.

PLAN NOTES

| | |
|---|---|
| A | 18" Dp PRE-ENG FLOOR TRUSSES @24"oc |
| B | PRE-ENG ROOF TRUSSES @24"oc |
| C | STEEL SADDLE PER 7/S307 |
| D | UPSET (4) 1 3/4"x18" LVL BM. INTERRUPT CONT. LSL RIMBOARD TO ALLOW FULL BRG ON TOP PL |
| E | UPSET 5 1/2"x13 1/2"x15'-0" LG GLULAM OUTRIGGER |
| F1 | HGUS5.50/10 HANGER |
| F2 | |
| G | UPSET 3 1/2"x14" PSL BEAM |
| H | UPSET 7"x14" PSL BEAM (INSTALL TIGHT TO BOTTOM OF DECK PER 8/S330) |
| J | UPSET (2) 1 3/4"x18" LVL w/ (2) KING STUDS EA. END. ALIGN EDGE OF BEAM w/ CORRIDOR SIDE FACE OF STUD. |
| K | UPSET (2) 1 3/4"x18" LVL BEAM. BEAM TO CANTILVEVER OUT TO EXTERIOR WALL. |
| L | UPSET 3 1/2" x 9 1/2" GLULAM BEAM w/ (2) KING STUDS @ BRG WALL OR HU410 HANGER @ BEAM CONNECTION. |
| M | UPSET (3) 1 3/4"x14" LVL BEAM. REFER TO DETAIL 12/S307 FOR FRAMING AT EA. END |
| N1 | UPSET (3) 1 3/4"x11 1/4" LVL BEAM w/ HGU5.50-SDS HANGER (H=11) EA. END |
| N2 | UPSET (3) 1 3/4"x14" LVL BEAM w/ HGU5.50-SDS HANGER (H=11) EA. END |
| P1 | UPSET 5 1/4"x18" PSL BEAM w/ (4) 2x6 KING STUDS EA. END |
| P2 | UPSET 7"x18" PSL BEAM w/ (5) 2x6 KING STUDS EA. END |

WOOD STUD BEARING WALL SCHEDULE

| MARK | 1st FLOOR WALLS (2nd FLOOR FRAMING) | 2nd FLOOR WALLS (3rd FLOOR FRAMING) | 3rd FLOOR WALLS (4th FLOOR FRAMING) | 4th FLOOR WALLS (ROOF FRAMING) | NOTES |
|---|---|---|---|---|---|
| 1 | 2x6 @ 16"oc | 2x6 @ 16"oc | 2x6 @ 16"oc | 2x6 @ 16"oc | @2x4 CORRIDOR WALL: REFER TO WALL TYPE "4" |
| 2 | 2x6 @ 16"oc w/ ADDT'L 2x6 @ 32"oc | 2x6 @ 16"oc | 2x6 @ 16"oc | 2x6 @ 16"oc | |
| 3 | 2x4 @ 16"oc w/ ADDT'L 2x4 @ 32"oc | 2x4 @ 16"oc w/ ADDT'L 2x4 @ 32"oc | 2x4 @ 16"oc | 2x4 @ 16"oc | |
| 4 | (2) 2x4 @ 16"oc | 2x4 @ 16"oc w/ ADDT'L 2x4 @ 32"oc | 2x4 @ 16"oc | 2x4 @ 16"oc | |
| 5 | (2) 2x4 @ 16"oc w/ ADDT'L 2x4 @ 32"oc | (2) 2x4 @ 16"oc | 2x4 @ 16"oc w/ ADDT'L 2x4 @ 32"oc | 2x4 @ 16"oc | |
| 6 | 2x10 @ 16"oc | 2x10 @ 16"oc | 2x10 @ 16"oc | 2x10 @ 16"oc | PROVIDE 2x BLOCKING AT MID HEIGHT BTWN EA. STUD |
| SEE NOTES | 2x4 @ 16"oc w/ ADDT'L 2x4 @ 32"oc | 2x4 @ 16"oc w/ ADDT'L 2x4 @ 32"oc | 2x4 @ 16"oc w/ ADDT'L 2x4 @ 32"oc | 2x4 @ 16"oc | @ ALL EXTERIOR 2x4 WALLS |

NOTES:
1. PROVIDE 2x BLOCKING AT MID HEIGHT (5'-0" MAX) AT ALL LOAD BEARING WALLS NOT SHEATHED ON BOTH SIDES.
2. ALL STUDS TO BE No. 2 GRADE U.N.O.
3. RE: 3/S003 FOR NAILING OF MULTIPLE STUDS.
4. REFER TO ARCH/MEP DRAWING FOR LOCATIONS OF FURRED OUT WALLS TO ACCOMODATE PLUMBING OR MEP ITEMS.
5. REFER TO FRAMING PLANS AND ARCH PLANS FOR LEVEL(S) AT WHICH WALLS OCCUR.
6. STACK/ALIGN WALL STUDS FROM FLOOR TO FLOOR AT ALL EXTERIOR WALLS.

JOIST/BEAM/TRUSS HANGER SCHEDULE

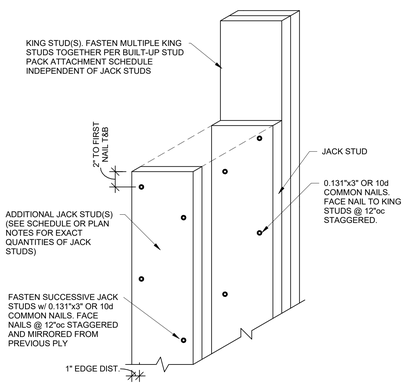
| JOIST/BEAM/TRUSS SIZE | HANGER SIZE | NOTES |
|---|---|---|
| 2x10 | LUS28 HU210 | AT CORRIDOR & BALCONY * AT SKEWED CONDITIONS |
| 2x12 | LUS210 | AT CORRIDOR |
| (2) 2x12 | LUS210-2 | AT CORRIDOR |
| 18" TRUSS FACE MOUNT TO UPSET BEAM | LUS410 *HHUS419 | * AT SKEWED CONDITIONS |

NOTES:
1. HANGERS APPLY TO ALL LOCATIONS WHERE NOT OTHERWISE SPECIFIED IN DETAIL OR PLAN NOTE

ROOF TRUSS HOLDOWN SCHEDULE

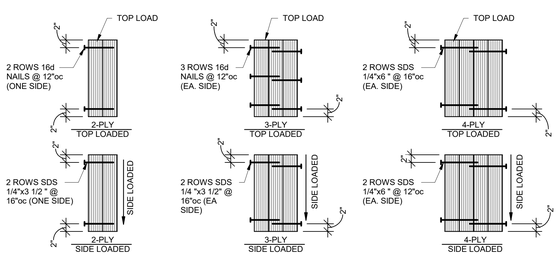
| TRUSS TYPE | SIMPSON STRONG TIE CONNECTION |
|---|---|
| COMMON/HIP/JACK AND 1-PLY TRUSSES | H2.5A |
| 1-PLY TRUSS PER TRUSS SHOP DWGS GIRDER TRUSS AS NOTED PER PLAN | (2) H2.5A (ONE EACH SIDE) |
| 2-PLY TRUSS PER TRUSS SHOP DWGS GIRDER TRUSS AS NOTED PER PLAN | LGT2 |
| 3-PLY TRUSS PER TRUSS SHOP DWGS OR GIRDER TRUSS AS NOTED PER PLAN | LGT3 |
| | |
| | |
| | |
| | |

NOTES:
1. GC COORDINATE HOLDOWN CONNECTION TYPE, QUANTITY & LOCATION WITH FINAL ROOF TRUSS SHOP DRAWINGS.



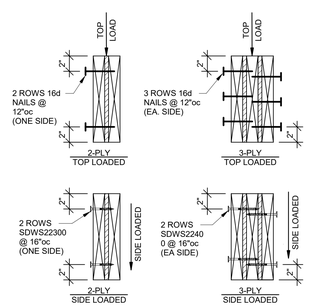

TYPICAL JACK STUD ATTACHMENT

## 4 DETAIL
1 1/2" = 1'-0"



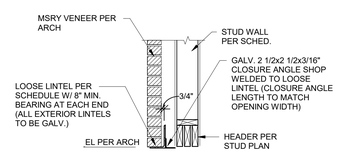

TYPICAL MULTI-PLY BEAM CONNECTION

## 5A DETAIL
3/4" = 1'-0"




TYPICAL MULTI-PLY HEADER CONNECTION

## 5B DETAIL
1 1/2" = 1'-0"




TYPICAL LOOSE LINTEL DETAIL

## 6 TYPICAL LOOSE LINTEL DETAIL
3/4" = 1'-0"

LOOSE LINTEL SCHEDULE

| FOR OPENINGS: | GALV. ANGLE |
|---|---|
| OPENING < 9'-0" | 6"x4"x5/16" (LLV) |
| | |

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
BUILDING DIVISION
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
BARRY W. WRIGHT
NUMBER
PE-2010026832
PROFESSIONAL ENGINEER
7-28-19

CLIENT
ARCHITECT
STRUCTURAL ENGINEER
CIVIL ENGINEER
MECHANICAL ENGINEER
PLUMBING ENGINEER
ELECTRICAL ENGINEER

CLIENT NAME
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STRUCTURAL
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**DATE:** 7.29.19 (SHELL PACKAGE)

**REVISIONS** 2

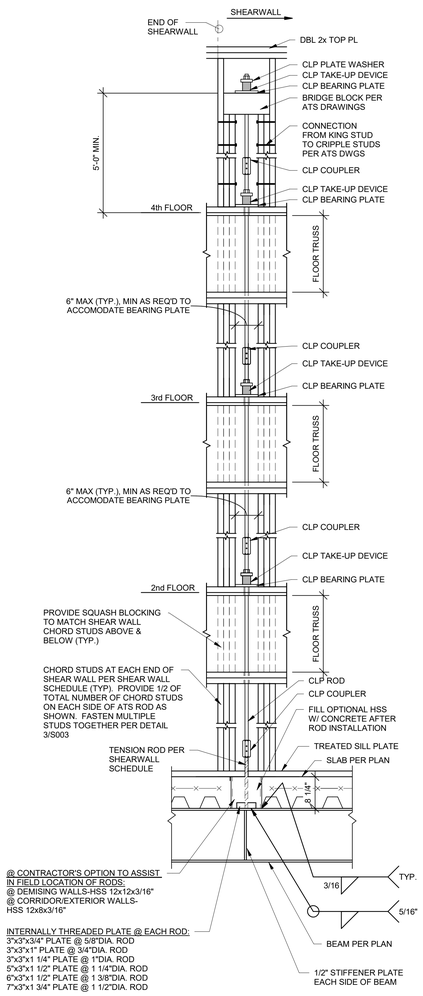
**DWG BY** Author

**TR.i PROJECT NO.** 18-046

**SHEET NO.**

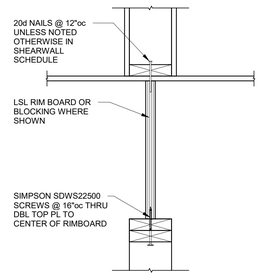
S003

**TYPICAL WOOD GRAVITY SCHEDULES & DETAILS**



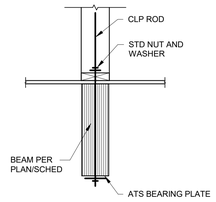

TYPICAL ANCHOR TIEDOWN SYSTEM DETAIL AT EACH END OF SHEAR WALLS

REFER TO PLANS FOR SHEAR WALL LOCATIONS AND TO SHEAR WALL SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.




TYPICAL SHEARWALL SILL PL ATTACHMENT AT 2x SILL

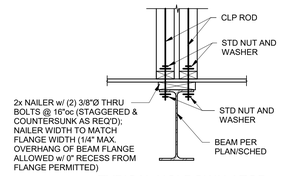
**2 SECTION**
1 1/2" = 1'-0"




TYPICAL HOLDOWN ATOP WOOD BM

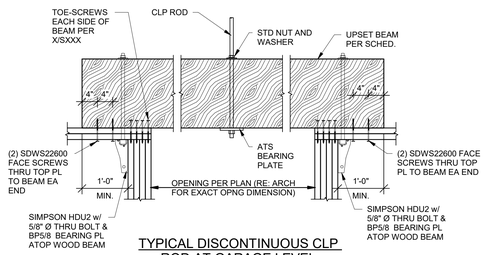
**3 SECTION**
1" = 1'-0"

NOTE:
IN LIEU OF THRU BOLTING OR WHERE ROD ALIGNS OVER CENTER OF BEAM, A WELDABLE STEEL CAGE OR WELDABLE THREADED ROD MAY BE PROVIDED FOR SHOP OR FIELD WELDING TO BEAM FOR ATS ROD ATTACHMENT



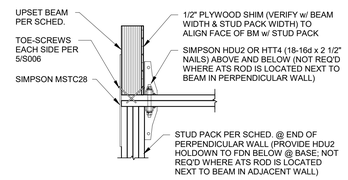

TYPICAL HOLDOWN ATOP STEEL BEAM ABOVE PODIUM

**4 SECTION**
1" = 1'-0"



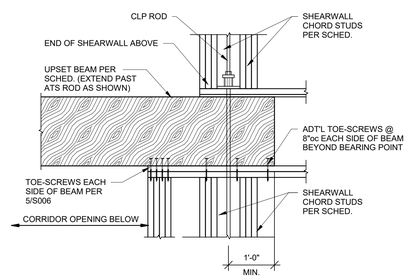

TYPICAL DISCONTINUOUS CLP ROD AT GARAGE LEVEL

**5 SECTION**
3/4" = 1'-0"



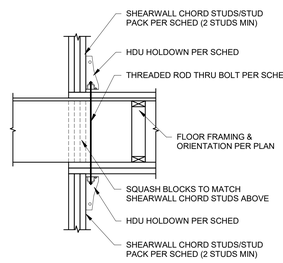

TYPICAL END BEARING AT PERPENDICULAR WALL OF UPSET BEAM SUPPORTING DISCONTINUOUS ATS ROD

**6 SECTION**
3/4" = 1'-0"



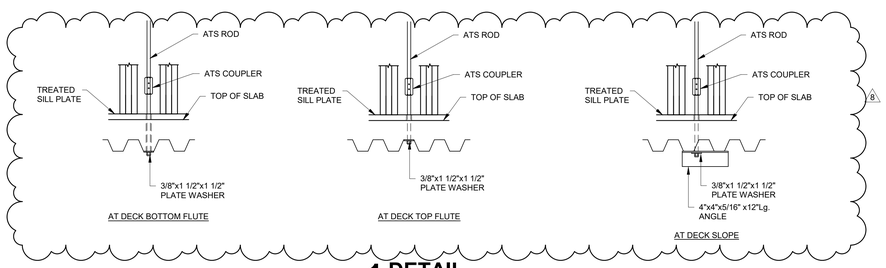

TYPICAL UPSET BEAM NEAR END OF SHEARWALL

**7 SECTION**
3/4" = 1'-0"

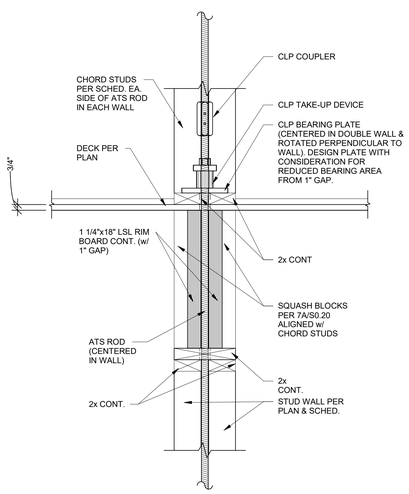



TYPICAL HDU FLOOR TO FLOOR HOLDOWN

**8 SECTION**
3/4" = 1'-0"

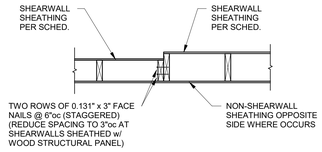



**1 DETAIL**
3/4" = 1'-0"



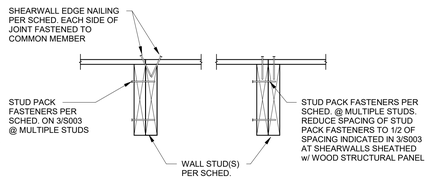

TYPICAL SINGLE ATS ROD AT DOUBLE SHEARWALLS

**9 SECTION**
1 1/2" = 1'-0"




TYPICAL SHEARWALL DETAIL AT WALL STUD SIZE TRANSITION

**10 SECTION**
3/4" = 1'-0"




TYPICAL SHEARWALL SHEATHING JOINT

**11 SECTION**
1 1/2" = 1'-0"

## SHEARWALL SCHEDULE

| SHEARWALL TYPE | | FLOOR 1st FLOOR WALLS | 2nd FLOOR WALLS | 3rd FLOOR WALLS | 4th FLOOR WALLS | PLATE CONNECTION (SILL TO RIM BOARD & RIM BOARD TO TOP PLATE) (RE: NOTES 6 & 7) |
|---|---|---|---|---|---|---|
| SW1 | MATERIAL & THICKNESS | 5/8" GYPSUM SHEATHING ONE SIDE, w/ EDGES BLOCKED | 5/8" GYPSUM SHEATHING ONE SIDE, w/ EDGES UNBLOCKED | 5/8" GYPSUM SHEATHING ONE SIDE, w/ EDGES UNBLOCKED | 5/8" GYPSUM SHEATHING ONE SIDE, w/ EDGES UNBLOCKED | |
| | NAIL SIZE & SPACING | 6d NAILS @ 4/4 | 6d NAILS @ 7/7 | 6d NAILS @ 7/7 | 6d NAILS @ 7/7 | |
| | SHEAR FORCE | 175 plf | 115 plf | 115 plf | 115 plf | |
| SW2 | MATERIAL & THICKNESS | (2)5/8" GYPSUM SHEATHING ONE SIDE, w/ EDGES BLOCKED | 5/8" GYPSUM SHEATHING ONE SIDE, w/ EDGES BLOCKED | 5/8" GYPSUM SHEATHING ONE SIDE, w/ EDGES UNBLOCKED | 5/8" GYPSUM SHEATHING ONE SIDE, w/ EDGES UNBLOCKED | 1st FLR - 20d NAILS @ 8"oc |
| | NAIL SIZE & SPACING | BASE PLY: 6d COOLER NAILS @ 9/9 FACE PLY: 8d COOLER NAILS @ 7/7 | 6d NAILS @ 4/4 | 6d NAILS @ 7/7 | 6d NAILS @ 7/7 | |
| | SHEAR FORCE | 250 plf | 175 plf | 115 plf | 115 plf | |
| SW3 | MATERIAL & THICKNESS | 7/16" OSB SHEATHING ONE SIDE, w/ EDGES BLOCKED | (2)5/8" GYPSUM SHEATHING ONE SIDE, w/ EDGES BLOCKED | 5/8" GYPSUM SHEATHING ONE SIDE, w/ EDGES BLOCKED | 5/8" GYPSUM SHEATHING ONE SIDE, w/ EDGES UNBLOCKED | 2nd FLR - 20d NAILS @ 8"oc 1st FLR - 20d NAILS @ 6"oc |
| | NAIL SIZE & SPACING | 8d NAILS 4/12 | BASE PLY: 6d COOLER NAILS @ 9/9 FACE PLY: 8d COOLER NAILS @ 7/7 | 6d NAILS @ 4/4 | 6d NAILS @ 7/7 | |
| | SHEAR FORCE | 380 plf | 250 plf | 175 plf | 115 plf | |
| SW4 | MATERIAL & THICKNESS | 7/16" OSB SHEATHING ONE SIDE, w/ EDGES BLOCKED | 7/16" OSB SHEATHING ONE SIDE, w/ EDGES BLOCKED | 7/16" OSB SHEATHING ONE SIDE, w/ EDGES BLOCKED | 5/8" GYPSUM SHEATHING ONE SIDE, w/ EDGES BLOCKED | 3rd FLR - 20d NAILS @ 8"oc 2nd FLR - 20d NAILS @ 6"oc 1st FLR - 20d NAILS @ 6"oc |
| | NAIL SIZE & SPACING | 8d NAILS 4/12 | 8d NAILS 4/12 | 8d NAILS 6/12 | 6d NAILS @ 4/4 | |
| | SHEAR FORCE | 380 plf | 380 plf | 260 plf | 175 plf | |
| SW5 | MATERIAL & THICKNESS | 7/16" OSB SHEATHING ONE SIDE, w/ EDGES BLOCKED | 7/16" OSB SHEATHING ONE SIDE, w/ EDGES BLOCKED | 7/16" OSB SHEATHING ONE SIDE, w/ EDGES BLOCKED | 7/16" OSB SHEATHING ONE SIDE, w/ EDGES BLOCKED | 4th FLR - 20d NAILS @ 8"oc 3rd FLR - 20d NAILS @ 8"oc 2nd FLR - 20d NAILS @ 6"oc 1st FLR - 20d NAILS @ 6"oc |
| | NAIL SIZE & SPACING | 8d NAILS 4/12 | 8d NAILS 4/12 | 8d NAILS 6/12 | 8d NAILS 6/12 | |
| | SHEAR FORCE | 380 plf | 380 plf | 260 plf | 260 plf | |

NOTES:
1. NAILING SHALL BE TO ALL STUDS, TOP & BOTTOM PLATES, AND BLOCKING WHERE INDICATED. NAILS FOR GYPSUM SHEATHING ARE COOLER NAILS AND NAILS FOR OSB SHEATHING ARE COMMON NAILS. GYPSUM CAN BE ATTACHED WITH DRYWALL SCREWS AT SAME SPACING INDICATED FOR NAILS.
2. HOLDOWNS PER PLAN & SCHEDULE.
3. WHERE THE ENDS OF PERPENDICULAR SHEAR WALLS INTERSECT AND ONLY ON HOLDOWN SHOWN ON PLAN, FASTEN ALL STUDS TOGETHER PER SCHEDULE AND USE LARGER OF THE TWO HOLDOWNS SHOWN IN THE SHEARWALL SCHEDULE.
4. REFER TO HOLDOWN SCHEDULE FOR NUMBER OF STUDS REQ'D AT EA END OF THE SHEARWALL
5. NAIL AND STAPLE SPACING SHOWN AS (#/#) INDICATES FASTENERS SPACING IN INCHES AT THE EDGES/FIELD WHERE FIELD IS THE INTERMEDIATE MEMBERS.
6. TYPICAL SILL PLATE TO WOOD (RIM BOARD) SHALL BE 20d NAILS AT 12"oc UNLESS NOTED OTHERWISE IN SCHEDULE. TYPICAL WOOD (RIM BOARD) TO TOP PLATES SHALL BE SDWS22500 SCREWS @ 16"oc.
7. TYPICAL SILL PLATE TO CONCRETE SHALL BE 1/2"Øx6" Lg SIMPSON TITEN HD ANCHOR:
   AT 2x4 WALLS SPACE AT 24"oc MAX WITH 1/4"x2 1/2"x2 1/2" PLATE WASHER OR SIMPSON BPS1/2-3 @ CONTRACTORS OPTION
   AT 2x6 WALLS SPACE AT 24"oc MAX WITH 1/4"x2 1/2"x4 1/2" PLATE WASHER OR SIMPSON BPS1/2-6 @ CONTRACTORS OPTION
   AT 2x8 WALLS STAGGER AT 18"oc MAX WITH 1/4"x2 1/4"x2 1/2" PLATE WASHER OR SIMPSON BPS1/2-3 @ CONTRACTORS OPTION
8. PLATE WASHERS TO MAINTAIN MAX OF 1/2" BETWEEN EDGE OF SILL PLATE AND EDGE OF PLATE WASHER.
9. OSB @ INTERIOR WALL SHALL BE IN ADDITION TO 5/8" GYP SHEATHING.
10. SHEARWALL SHEATHING CALLED OUT AT CORRIDOR WALLS SHALL BE LOCATED AT UNIT SIDE OF WALL.
11. REFER TO NOTE 11.B ON S0.01 FOR FIRE RETARDANT TREATED SHEATHING REQUIREMENTS.

## HOLDOWN SCHEDULE

| MARK | FLOOR LEVEL (w/ ROD SIZE PER FLOOR& # OF REQ'D CHORD STUDS) 1st FLOOR | 2nd FLOOR | 3rd FLOOR | 4th FLOOR |
|---|---|---|---|---|
| A | 3/8"Ø STANDARD THREADED ROD w/ (2)2x4 OR (2)2x6 | 3/8"Ø STANDARD THREADED ROD w/ (2)2x4 OR (2)2x6 | 3/8"Ø STANDARD THREADED ROD w/ (2)2x4 OR (2)2x6 | 3/8"Ø STANDARD THREADED ROD w/ (2)2x4 OR (2)2x6 |
| B | 3/4"Ø STANDARD THREADED ROD w/ (6)2x4 OR (4)2x6 | 5/8"Ø STANDARD THREADED ROD w/ (6)2x4 OR (4)2x6 | 3/8"Ø STANDARD THREADED ROD w/ (2)2x4 OR (2)2x6 | 3/8"Ø STANDARD THREADED ROD w/ (2)2x4 OR (2)2x6 |
| C | | 3/4"Ø STANDARD THREADED ROD w/ (6)2x4 OR (4)2x6 | 1/2"Ø STANDARD THREADED ROD w/ (4)2x4 OR (2)2x6 | 3/8"Ø STANDARD THREADED ROD w/ (2)2x4 OR (2)2x6 |

NOTES:
1. HOLDOWN TYPES ARE BASED UPON CONTINUOUS THREADED RODS UTILIZING CLP SYSTEMS.
2. RODS SHALL HAVE THE FOLLOWING MINIMUM TENSILE CAPACITY:
   A. 3/8"Ø = 2,900 LBS
   B. 1/2"Ø = 4,270 LBS
   C. 5/8"Ø = 6,675 LBS
   D. 3/4"Ø = 9,610 LBS
3. REFER TO SECTION DETAILS ON S0.03 FOR TYPICAL HOLDOWN DETAILS.
4. ALL RODS TO HAVE HALF OF THE LISTED REQ'D STUDS EA SIDE OF THREADED ROD TO MATCH STUD SIZE & GRADE NOTED IN WALL SCHEDULE. CHORD STUDS ARE IN ADDITION TO BEARING WALL OR HEADER JAMB STUDS - PROVIDE ADDITIONAL STUDS AS REQ'D TO MEET QUANTITY NOTED IN SCHED. OFFSET STUD PACK 3" TYPICAL FROM CENTERLINE OF THREADED ROD. PROVIDE SQUASH BLOCKS WITHING FLOOR PLATE DEPTH (TRUSS DEPTH) ALIGNED WITH STUD PACKS. QUANITY OF SQUASH BLOCK TO MATCH QUANITY OF STUDS BELOW.
5. PROVIDE SIMPSON ATS-SBC WELDED TO STEEL WIDE-FLANGE (PRIOR TO POURING CONCRETE).
6. PROVIDE PLATE WASHER AND NUT CAPABLE OF DEVELOPING CAPACITY OF ROD AT EACH FLOOR.
7. PROVIDE TAKE-UP DEVICE AT EACH FLOOR CAPABLE OF ACCOMODATING THE SHRINKAGE INDICATED IN DETAIL 1/S0.06.
8. PROVIDE COUPLING TAKE-UP DEVICE AS REQUIRED.
9. PROVIDE SHOP DRAWINGS SHOWING LOCATIONS OF ALL HOLD-DOWNS AND HARDWARE FOR REVIEW BY THE EOR PRIOR TO INSTALLATION.
10. THE HOLE THRU THE TOP AND SILL PLATES SHALL BE EQUAL TO THE ROD DIAMETER PLUS 1/4".

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
CHRISTOPHER J. BURTON
NUMBER PE-2010026837
NATIONAL
8-31-2020

CLIENT
ARCHITECT
STRUCTURAL ENGINEER
CIVIL ENGINEER
MECHANICAL ENGINEER
PLUMBING ENGINEER
ELECTRICAL ENGINEER

CLIENT NAME
TR.i Architects
STRUCTURAL
CIVIL
ENGINEER
PLUMBING
ELECTRICAL

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**DATE:** 7.29.19 (SHELL PACKAGE)

**REVISIONS** 2

| | | |
|---|---|---|
| 8 | REVISION 3 | 04.03.20 |

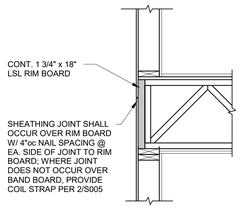
**DWG BY** Author

**TR.i PROJECT NO.** 18-046

**SHEET NO.**

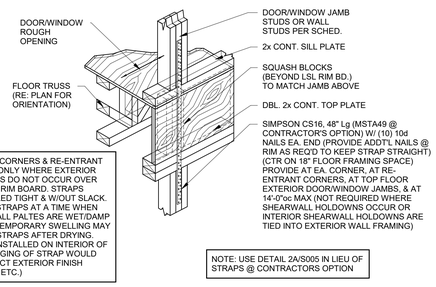
S004

**TYPICAL WOOD LATERAL SCHEDULES & DETAILS**



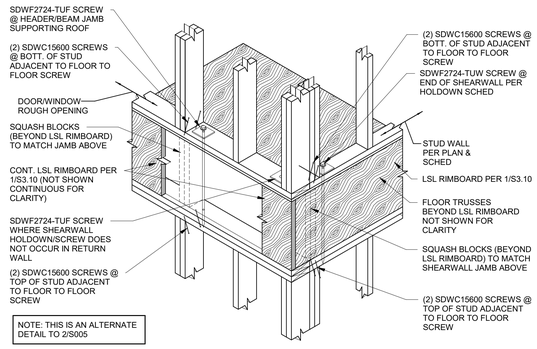

TYPICAL EXTERIOR SHEATHING JOINT

**1 SECTION** 3/4" = 1'-0"



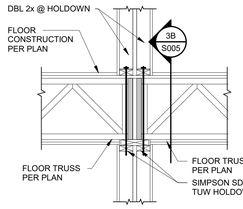

TYPICAL COIL STRAP @ EXTERIOR JAMBS SUPPORTING ROOF FRAMING AT FLOOR DIRECTLY BELOW ROOF AND FLOOR TO FLOOR TIES WHERE DETAIL 1/S005 IS NOT FOLLOWED

**2 SECTION** 3/4" = 1'-0"



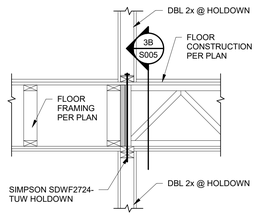

TYPICAL FLOOR-TO-FLOOR SCREW @ EXTERIOR JAMBS SUPPORTING ROOF FRAMING AT FLOOR DIRECTLY BELOW ROOF AND FLOOR TO FLOOR TIES WHERE DETAIL 1/S005 IS NOT FOLLOWED

**2A SECTION** 3/4" = 1'-0"



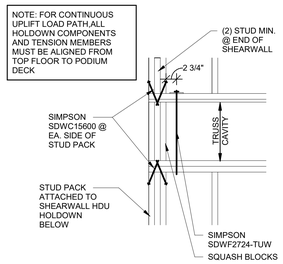

TYPICAL UNIT UPLIFT HOLDOWN DETAIL @ TOP FLOOR ROOF TRUSS BEARING WALLS

**3 SECTION** 3/4" = 1'-0"



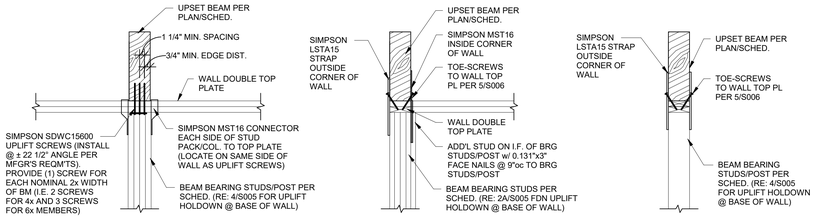

TYPICAL UNIT UPLIFT HOLDOWN DETAIL @ TOP FLOOR ROOF TRUSS BEARING WALLS

**3A SECTION** 3/4" = 1'-0"




ALTERNATE FLOOR TO FLOOR TIE-DOWN AT END OF WALL

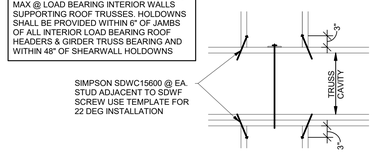
**5 SECTION** 3/4" = 1'-0"




TYPICAL AT PERPENDICULAR WALL — TYPICAL AT WALL CORNERS — TYPICAL AT PARALLEL WALL

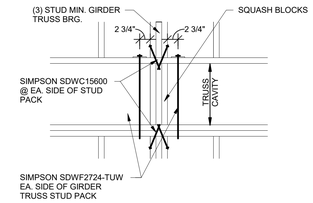
TYPICAL UPSET WOOD BEAM UPLIFT HOLDOWN AT BEAMS SUPPORTING ROOF TRUSS BEARING WALLS OR WHERE INDICATED

**6 SECTION** 3/4" = 1'-0"



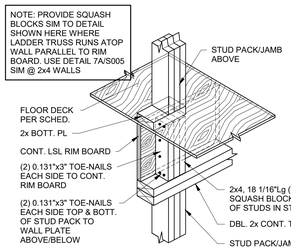

TYP SIDE VIEW AT DBL STUD SCREWS AT HOLDOWN

**3B DETAIL** 3/4" = 1'-0"



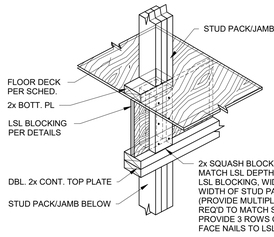

TYPICAL GIRDER TRUSS UPLIFT HOLDOWN DETAIL @ TOP FLOOR

**4 SECTION** 3/4" = 1'-0"



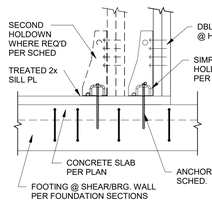

TYPICAL SQUASH BLOCK DETAIL AT CONTINUOUS RIM BOARD

**7 SECTION** 3/4" = 1'-0"



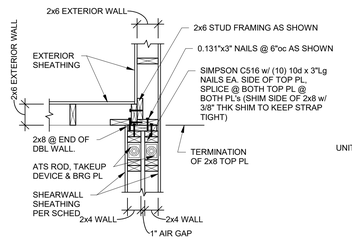

TYPICAL SQUASH BLOCK DETAIL AT LSL BLOCKING

**7A SECTION** 3/4" = 1'-0"



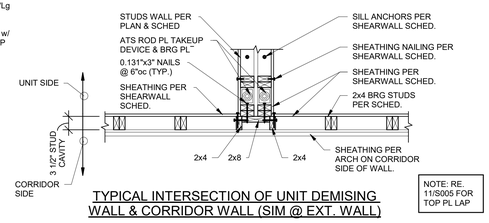

TYPICAL HDU HOLDOWN DETAIL

**8 SECTION** 3/4" = 1'-0"



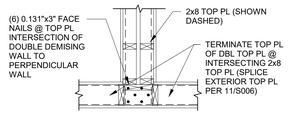

TYPICAL @ UNIT PARTY WALL TRANSITION TO 2x6 EXT. WALL

**9 SECTION** 3/4" = 1'-0"



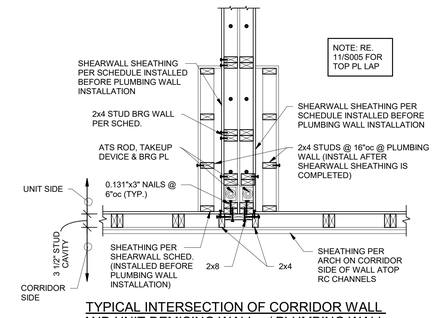

TYPICAL INTERSECTION OF UNIT DEMISING WALL & CORRIDOR WALL (SIM @ EXT. WALL)

**10 SECTION** 3/4" = 1'-0"



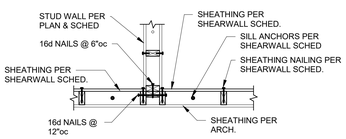

TYPICAL TOP PL LAP @ UNIT DEMISING WALL AT DISCONT. END

**11 SECTION** 3/4" = 1'-0"



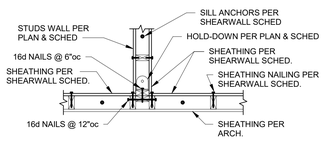

TYPICAL INTERSECTION OF CORRIDOR WALL AND UNIT DEMISING WALL w/ PLUMBING WALL

**12 SECTION** 3/4" = 1'-0"

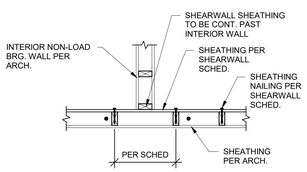



TYPICAL @ DISCONTINUOUS SHEARWALL SHEATHING

**13 SECTION** 3/4" = 1'-0"

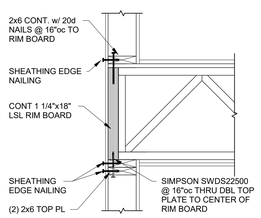



**15 SECTION** 3/4" = 1'-0"



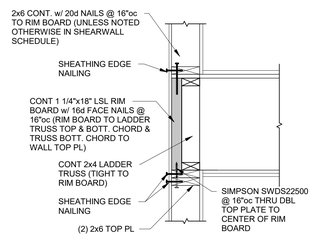

TYPICAL @ SHEARWALL SHEATHING CONTINUOUS PAST NON-LOAD BRG WALL

**14 SECTION** 3/4" = 1'-0"



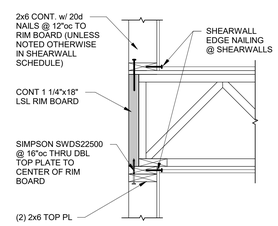

TYPICAL LATERAL NAILING AT EXTERIOR WALL WITH TRUSS BEARING

**16 SECTION** 1" = 1'-0"



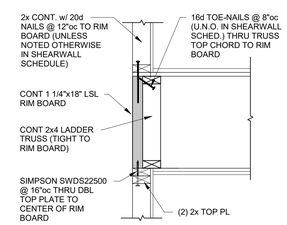

TYPICAL LATERAL NAILING AT EXTERIOR WALL PARALLEL TO TRUSSES

**16A SECTION** 1" = 1'-0"



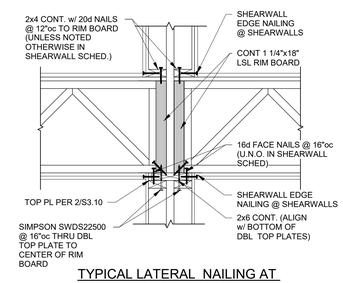

TYPICAL LATERAL NAILING AT ONE SIDED WALL WITH TRUSS BEARING

**16B SECTION** 1" = 1'-0"




TYPICAL LATERAL NAILING AT UNIT DEMISING WALL OR ONE SIDED WALL PARALLEL TO TRUSSES

**16C SECTION** 1" = 1'-0"




TYPICAL LATERAL NAILING AT DOUBLE UNIT DEMISING WALLS WITH TRUSS BEARING

**16D SECTION** 1" = 1'-0"

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
BUILDING DEPARTMENT
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI — JOHN A. VAN NOSTRAND — NUMBER PE-2010026832 — PROFESSIONAL ENGINEER — 7-28-19

CLIENT
ARCHITECT
STRUCTURAL ENGINEER
CIVIL ENGINEER
MECHANICAL ENGINEER
PLUMBING ENGINEER
ELECTRICAL ENGINEER

CLIENT NAME
TR.i Architects
STRUCTURAL
CIVIL
ENGINEER
PLUMBING
ELECTRICAL

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**REVISIONS** 1

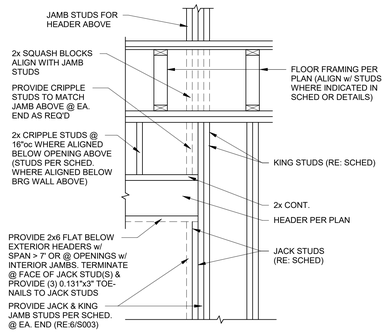
**DWG BY** Author

**TR.i PROJECT NO.** 18-046

**SHEET NO.**

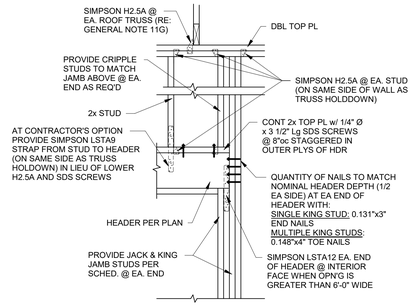
S005

**TYPICAL WOOD DETAILS**



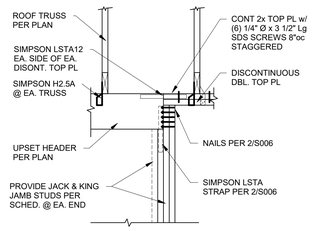

TYPICAL HEADER DETAIL

**1 SECTION** 3/4" = 1'-0"



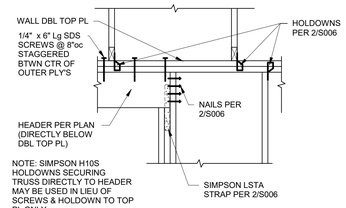

TYPICAL HEADER DETAIL @ ROOF TRUSS BRG LOCATIONS

**2 SECTION** 3/4" = 1'-0"



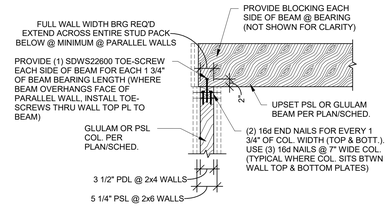

TYPICAL HEADER DETAIL AT DISCONTINUOUS TOP PLATE AT ROOF

**3 SECTION** 3/4" = 1'-0"



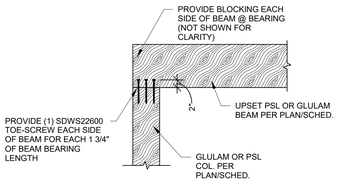

TYPICAL HEADER DETAIL AT ROOF TRUSS BRG LOCATIONS w/HEADER DIRECTLY BELOW DBL TOP PL

**4 SECTION** 3/4" = 1'-0"




TYPICAL PSL OR GLULAM BEAM AND/OR COLUMN DETAIL

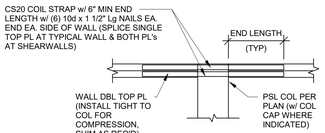
**5 SECTION** 3/4" = 1'-0"



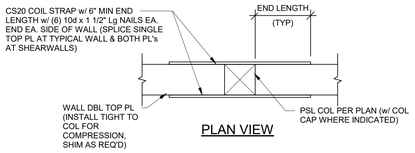

TYPICAL PSL OR GLULAM BEAM BEARING DIRECTLY ON GLULAM OR PSL COLUMN DETAIL

NOTES:
1. REFER TO 5/S006 WHERE COL IS SET BTWN WALL TOP & BOTTOM PLATES
2. PROVIDE STRAPS PER 6/S0.06 AT DISCONTINUOUS WALL TOP PLATES.

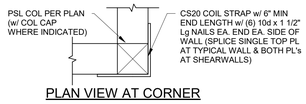
**5A SECTION** 3/4" = 1'-0"



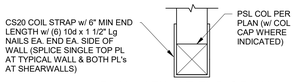

ELEVATION VIEW




PLAN VIEW



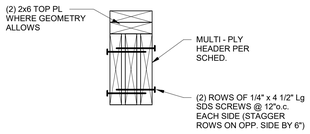

PLAN VIEW AT CORNER




PLAN VIEW AT END OF WALL

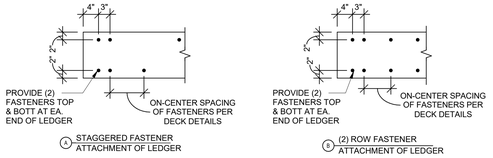
TYPICAL STRAPS @ DISCONTINUOUS TOP PL @ COL

**6 SECTION** 3/4" = 1'-0"



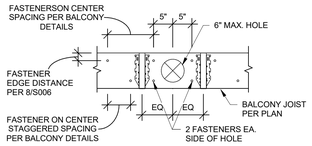

TYPICAL MULTI-PLY EXTERIOR ROOF HEADER WHERE GEOMETRY DOES NOT ALLOW 2x PL BELOW HEADER

**7 SECTION** 1 1/2" = 1'-0"



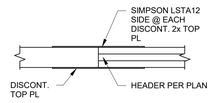

TYPICAL LEDGER CONNECTION

**8 SECTION** 3/4" = 1'-0"



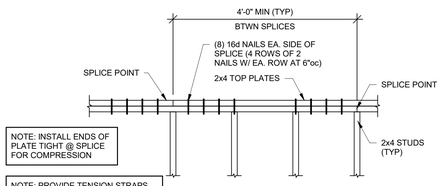

TYPICAL HOLE THRU LEDGER DETAIL

**9 SECTION** 3/4" = 1'-0"




TYPICAL SPLICE AT DISCONTINUOUS TOP PL

**10 SECTION** 3/4" = 1'-0"

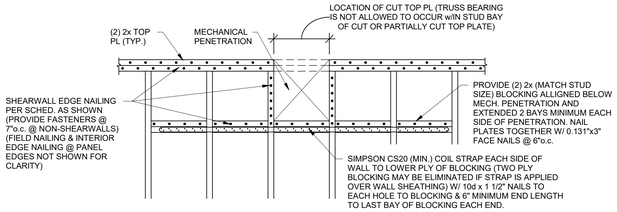



NOTE: INSTALL ENDS OF PLATE TIGHT @ SPLICE FOR COMPRESSION

NOTE: PROVIDE TENSION STRAPS PER 10/S006 @ LOCATIONS WHERE TOP PLATE SPLICE IS NOT STAGGERED 4'-0" MIN. AND WHERE PLUMBING/ELECTRICAL BORES OR NOTCHES TOP PLATE OVER THE ALLOWABLE DIMENSIONS SHOWN IN DETAIL 13/S006.

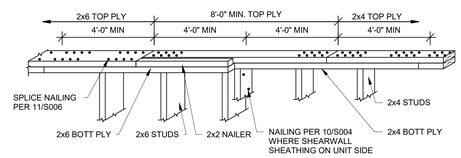
TYPICAL TOP PLATE SPLICE

**11 SECTION** 3/4" = 1'-0"



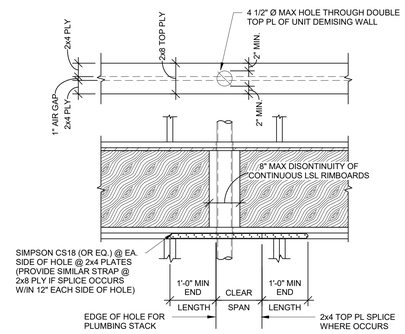

TYPICAL TOP PLATE SPLICE AT SHEARWALL OR BEARING WALL DUE TO MECH. PENETRATION

**11A SECTION** 3/4" = 1'-0"



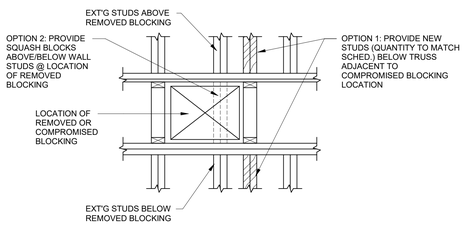

TYPICAL TOP PLATE SPLICE AT WALL SIZE TRANSITION

**12 SECTION** 3/4" = 1'-0"



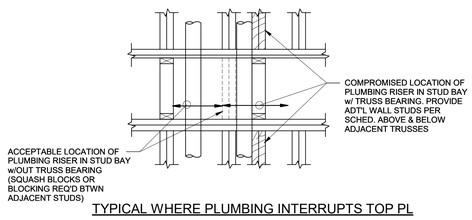

TYPICAL DETAIL AT PLUMBING STACK IN DOUBLE UNIT DEMISING WALLS

**13 SECTION** 3/4" = 1'-0"



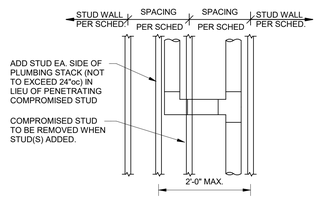

TYPICAL WHERE MECHANICAL DUCT INTERRUPTS LSL

**14 SECTION** 3/4" = 1'-0"




TYPICAL WHERE PLUMBING INTERRUPTS TOP PL

**15 SECTION** 3/4" = 1'-0"




TYPICAL WHERE PLUMBING STACK HAS HORIZONTAL JOG

**16 SECTION** 3/4" = 1'-0"

RELEASE FOR CONSTRUCTION
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BUILDING DEPARTMENT
LEE'S SUMMIT, MISSOURI
04/13/2020

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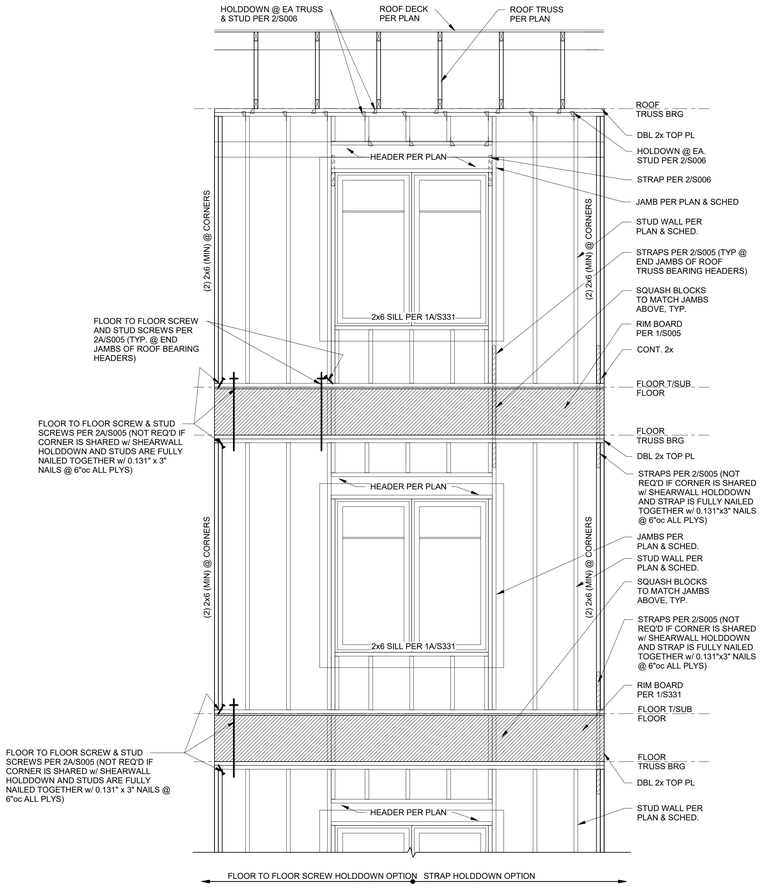
**TR.i PROJECT NO.** 18-046

**SHEET NO.**

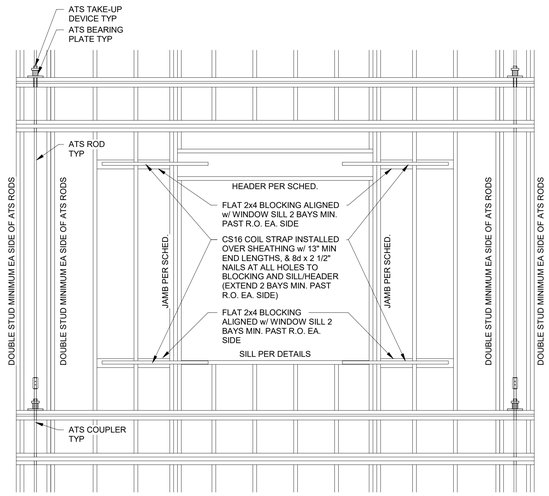
S006

**TYPICAL WOOD DETAILS**



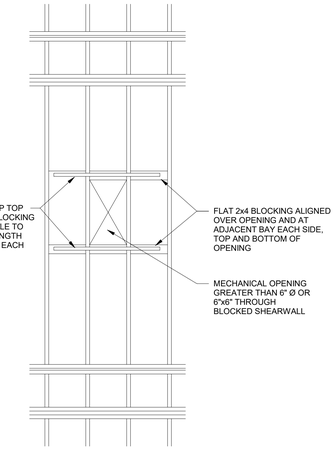

TYPICAL EXTERIOR ELEVATION OF STRUCTURAL BAY @ TYPE V CONSTRUCTION

## 1 ELEVATION
1/2" = 1'-0"



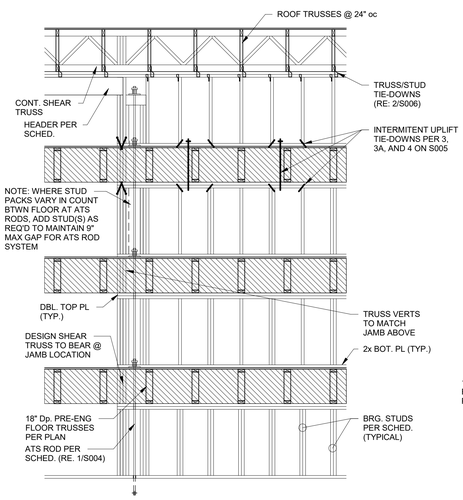

TYPICAL FORCE TRANSFER SHEARWALL ELEVATION @ WINDOW OPENINGS

## 2 ELEVATION
1/2" = 1'-0"



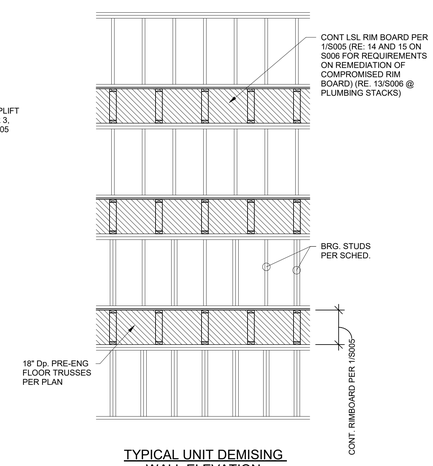

TYPICAL OPENING THROUGH BLOCKED SHEARWALL

## 3 ELEVATION
1/2" = 1'-0"



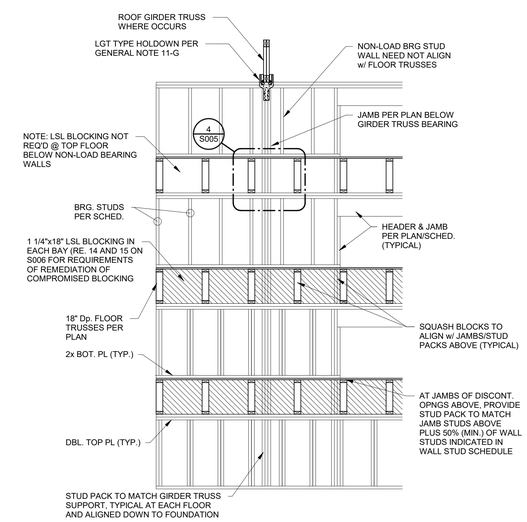

TYPICAL CORRIDOR BEARING WALL ELEVATION

## A ELEVATION
3/8" = 1'-0"




TYPICAL UNIT DEMISING WALL ELEVATION

## B ELEVATION
3/8" = 1'-0"




TYPICAL INTERIOR BEARING WALL ELEVATION

## C ELEVATION
3/8" = 1'-0"

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
ACCEPTANCE BY CITY OF LEE'S SUMMIT, MISSOURI
04/13/2020

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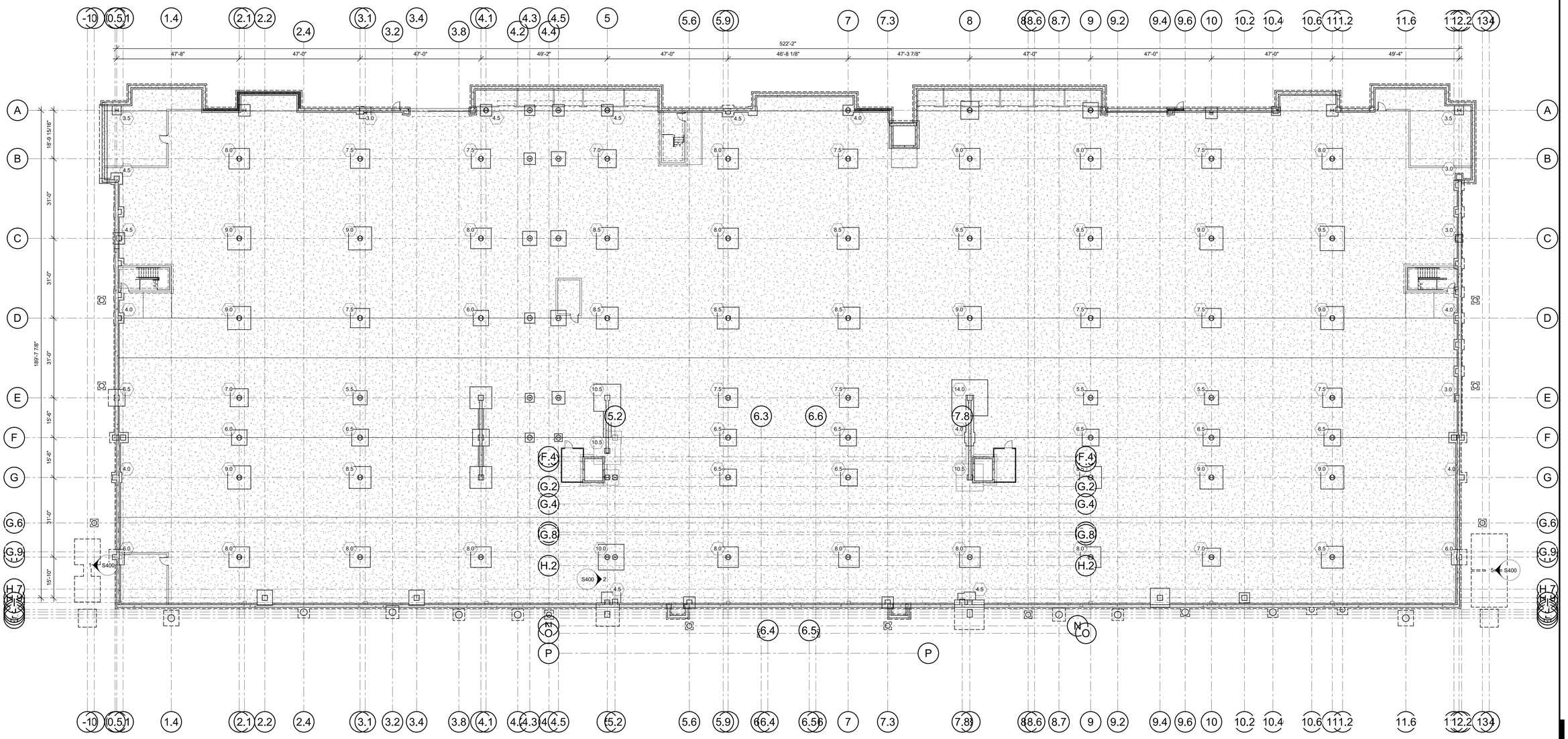
**TR.i PROJECT NO.** 18-046

**SHEET NO.**

S007

**TYPICAL WOOD DETAILS**




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

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
ACCEPTANCE BY CITY OF LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
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**REVISIONS** 2

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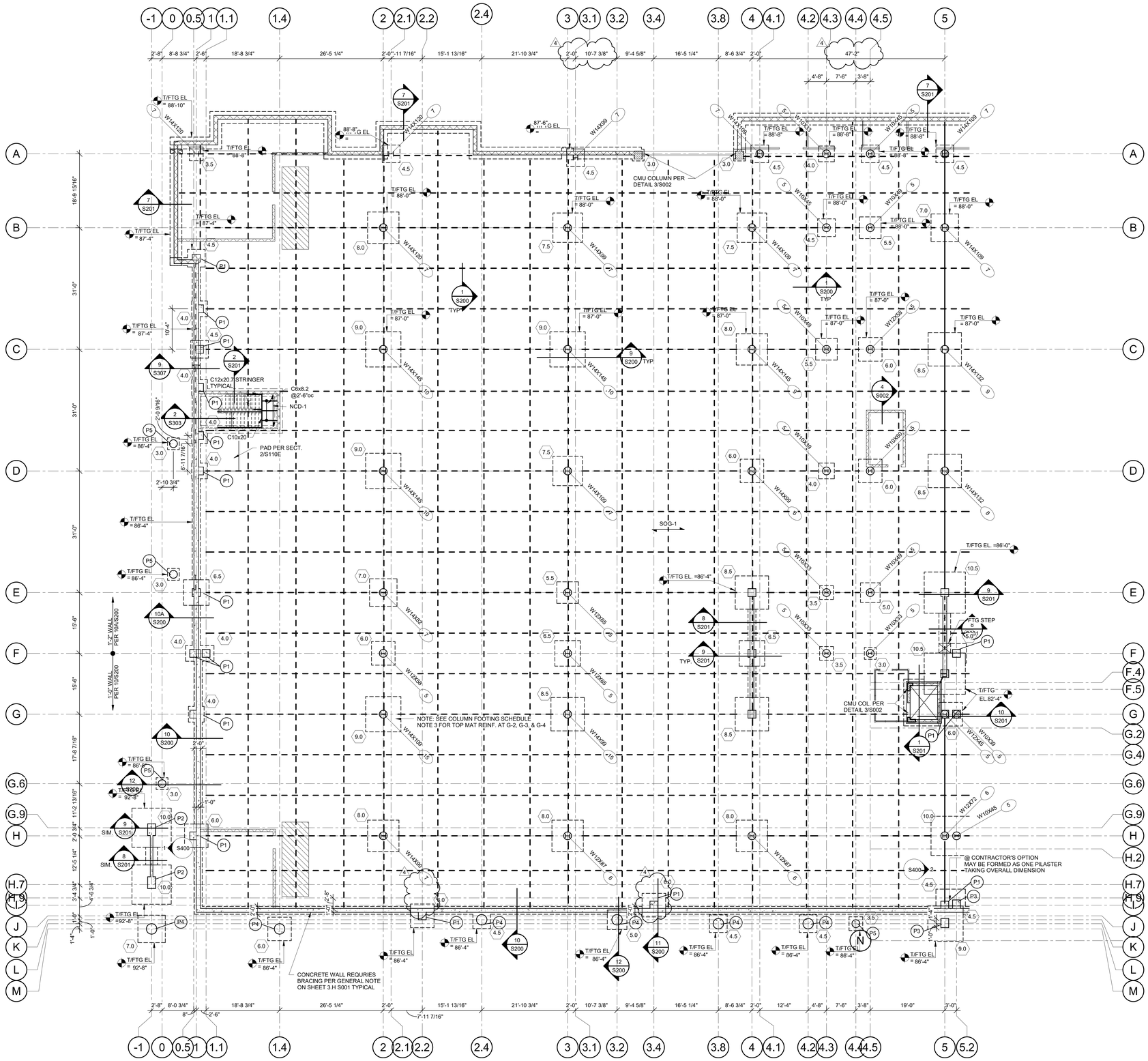
**TR.i PROJECT NO.** 18-046

**SHEET NO.**

S110

**FOUNDATION PLAN**




## 1 FOUNDATION PLAN- AREA B

3/32" = 1'-0"

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
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**REVISIONS**

| | | |
|---|---|---|
| 4 | STRUCTURAL REVISION | 10.16.19 |

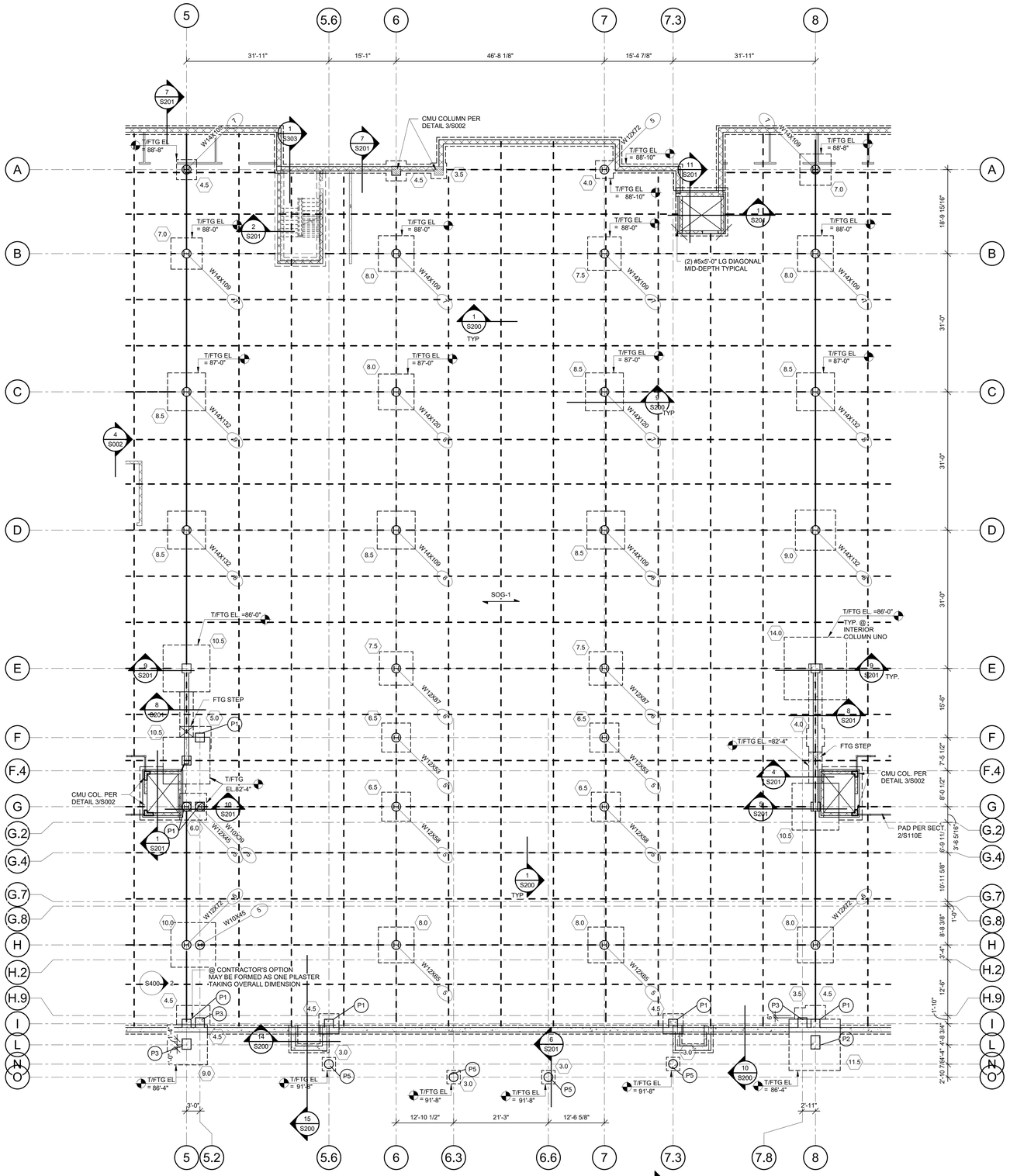
**DWG BY** Author

**TR.i PROJECT NO.** 18-046

**SHEET NO.**

S110B

**FOUNDATION PLAN - AREA B**




## 1 FOUNDATION PLAN - AREA C/D

3/32" = 1'-0"

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
NOT FOR PERMIT PURPOSES
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
DAVID A. WARNER
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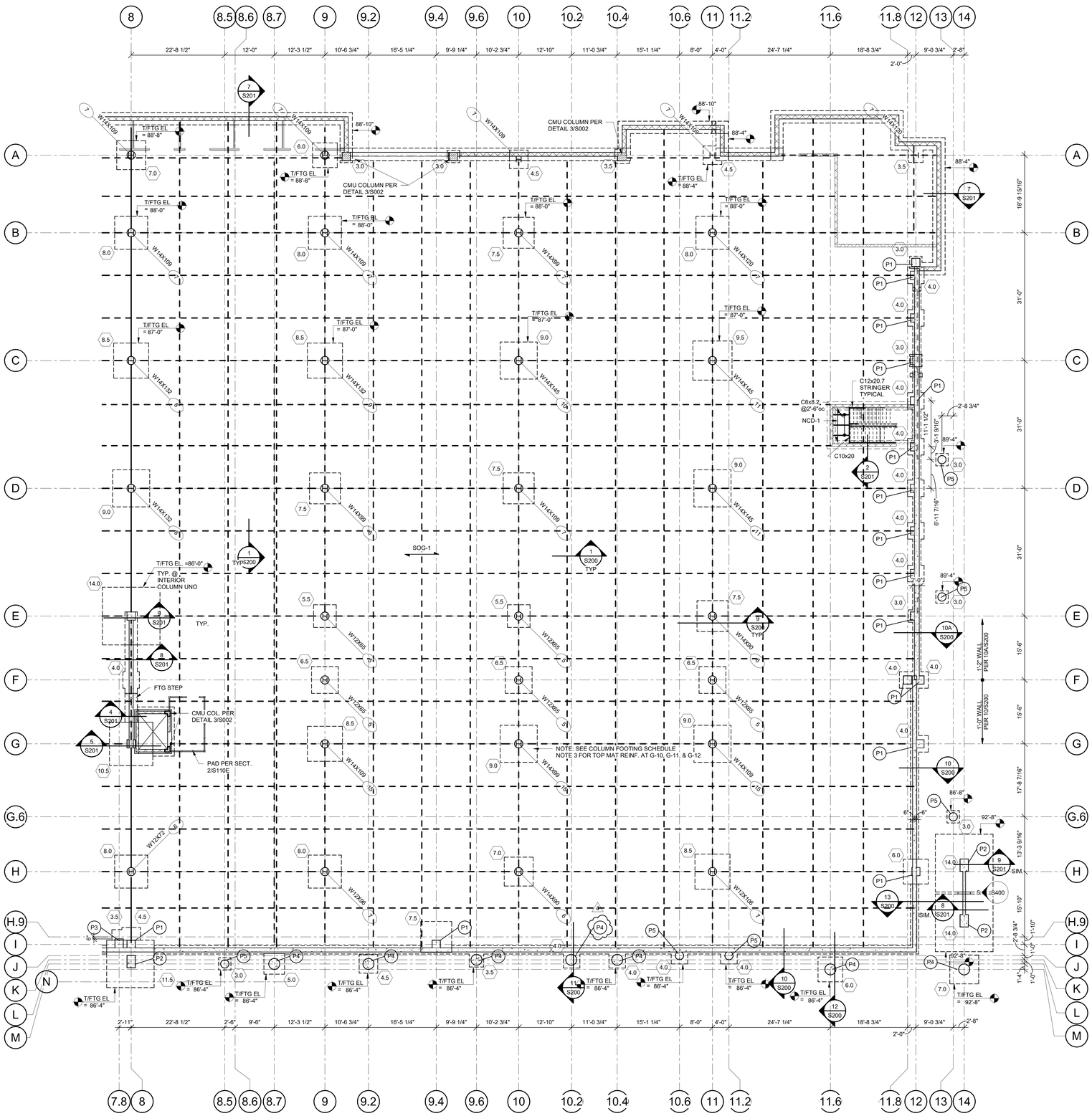
**SHEET NO.**

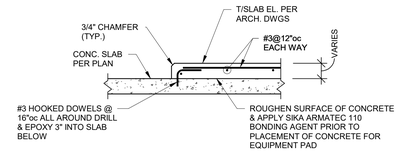
S110C/D

**FOUNDATION PLAN - AREA C/D**




## 1 FOUNDATION PLAN- AREA E

3/32" = 1'-0"




## 2 TYPICAL HOUSEKEEPING PAD

3/4" = 1'-0"

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
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04-16-19
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CIVIL ENGINEER
MECHANICAL ENGINEER
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**REVISIONS** 4

| | | |
|---|---|---|
| 4 | STRUCTURAL REVISION | 10.16.19 |

**DWG BY** Author

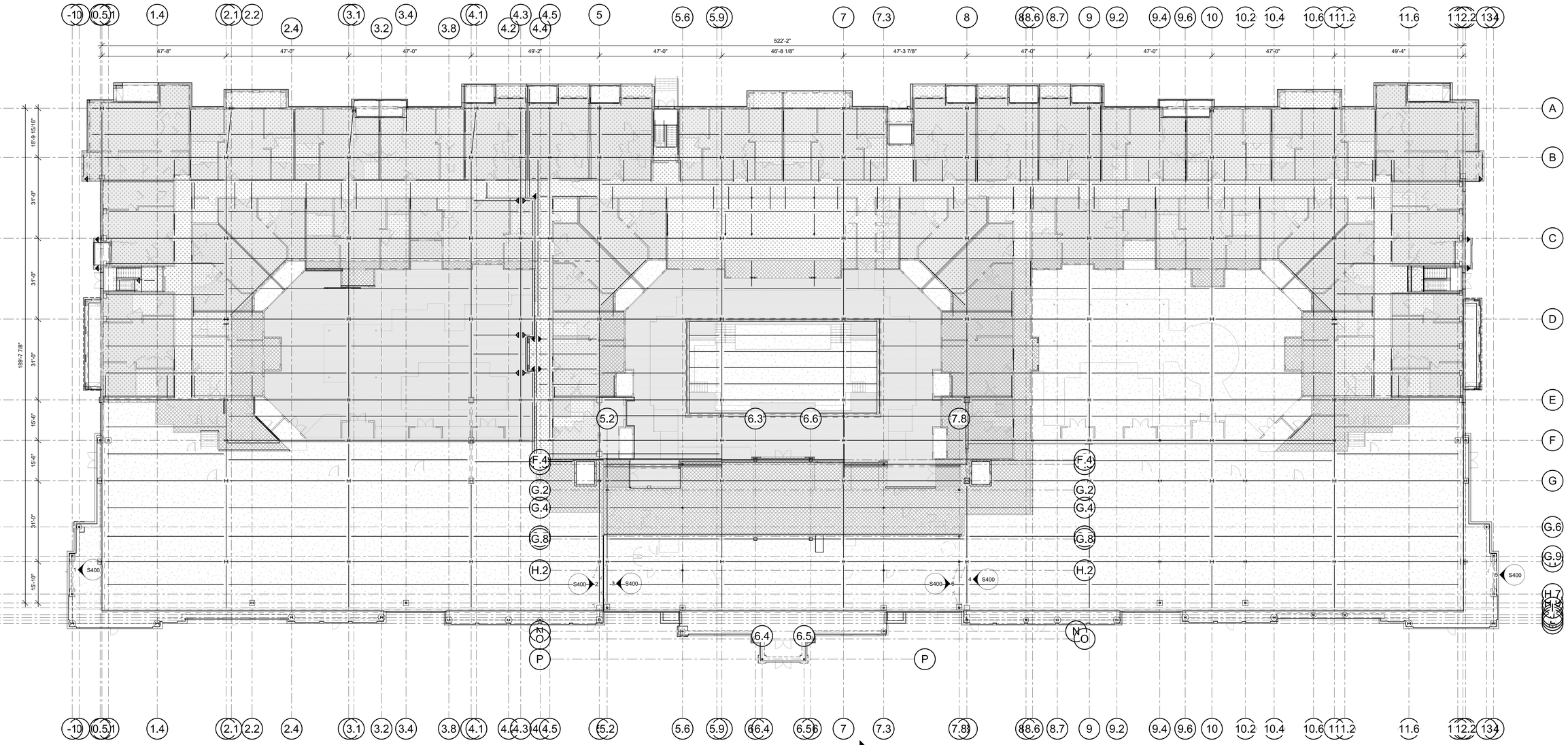
**TR.i PROJECT NO.** 18-046

**SHEET NO.**

# S110E

**FOUNDATION- AREA E**

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
CITY OF LEE'S SUMMIT, MISSOURI
04/13/2020




1 FIRST FLOOR FRAMING PLAN
1/16" = 1'-0"

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STRUCTURAL ENGINEER
CIVIL ENGINEER
MECHANICAL ENGINEER
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ELECTRICAL ENGINEER

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REVISIONS

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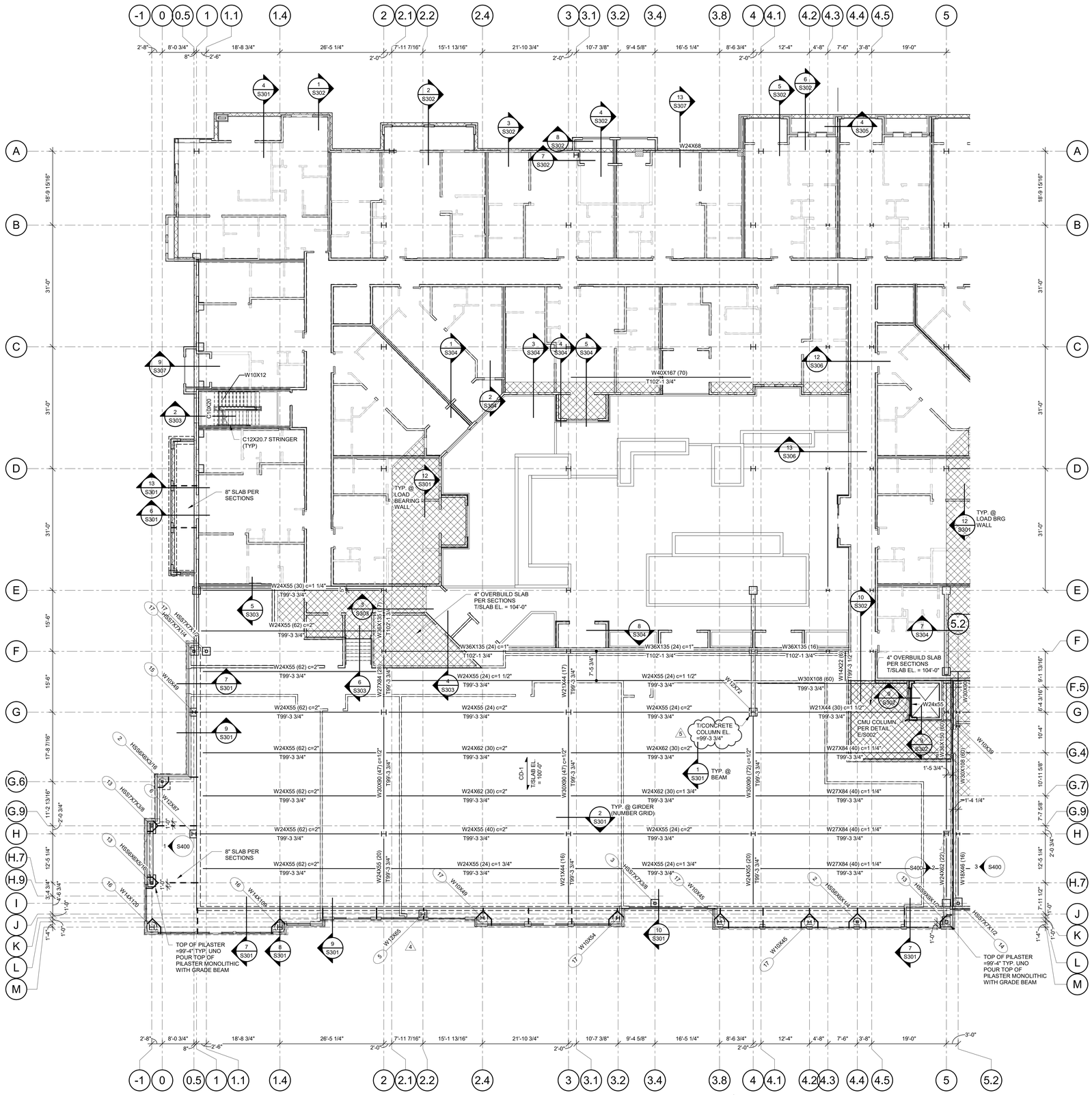
SHEET NO.

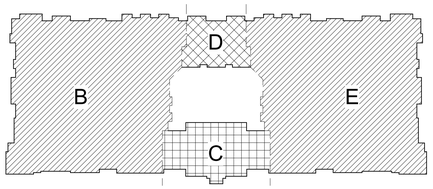
S111

COMMERCIAL FLOOR FRAMING PLAN




1 **COMMERCIAL FLOOR FRAMING PLAN- AREA B**

3/32" = 1'-0"




RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
08/13/2020

STATE OF MISSOURI
DAVID A. TUSCHEN
NUMBER
PE-2010026837
11-7-19
PROFESSIONAL ENGINEER

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MECHANICAL ENGINEER
PLUMBING ENGINEER
ELECTRICAL ENGINEER

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**REVISIONS** △

| | | |
|---|---|---|
| 4 | STRUCTURAL REVISION | 10.16.19 |
| 5 | STRUCTURAL REVISION 2 | 11.7.19 |

**DWG BY** Author

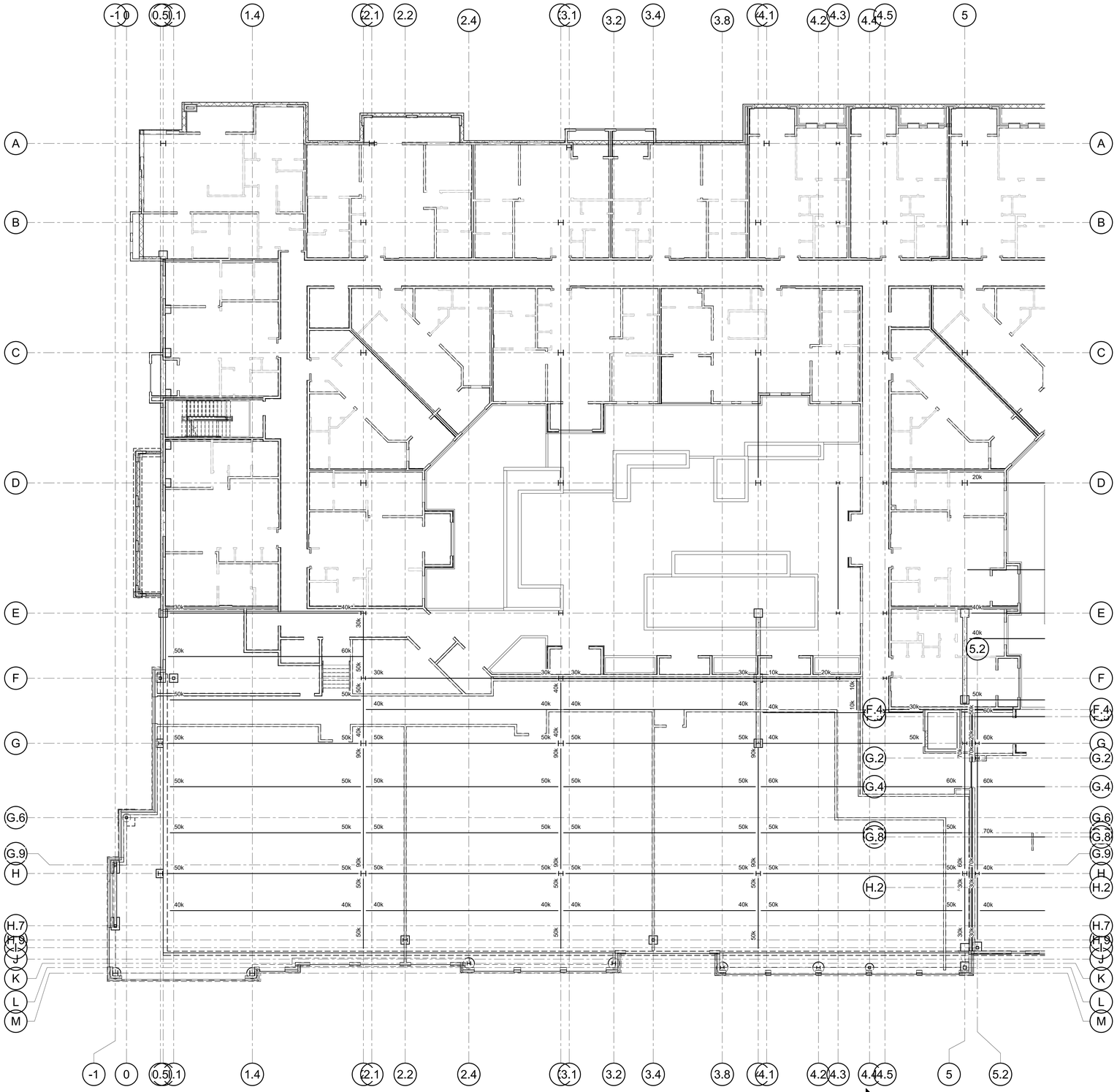
**TR.i PROJECT NO.** 18-046

**SHEET NO.**

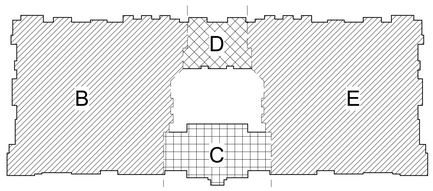
S111B

**COMMERCIAL FLOOR FRAMING PLAN- AREA B**

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
BUILDING DEPARTMENT
LEE'S SUMMIT, MISSOURI
04/13/2020




1 **COMMERCIAL FLOOR TENSION ROD & REACTIONS PLAN - AREA B**
3/32" = 1'-0"

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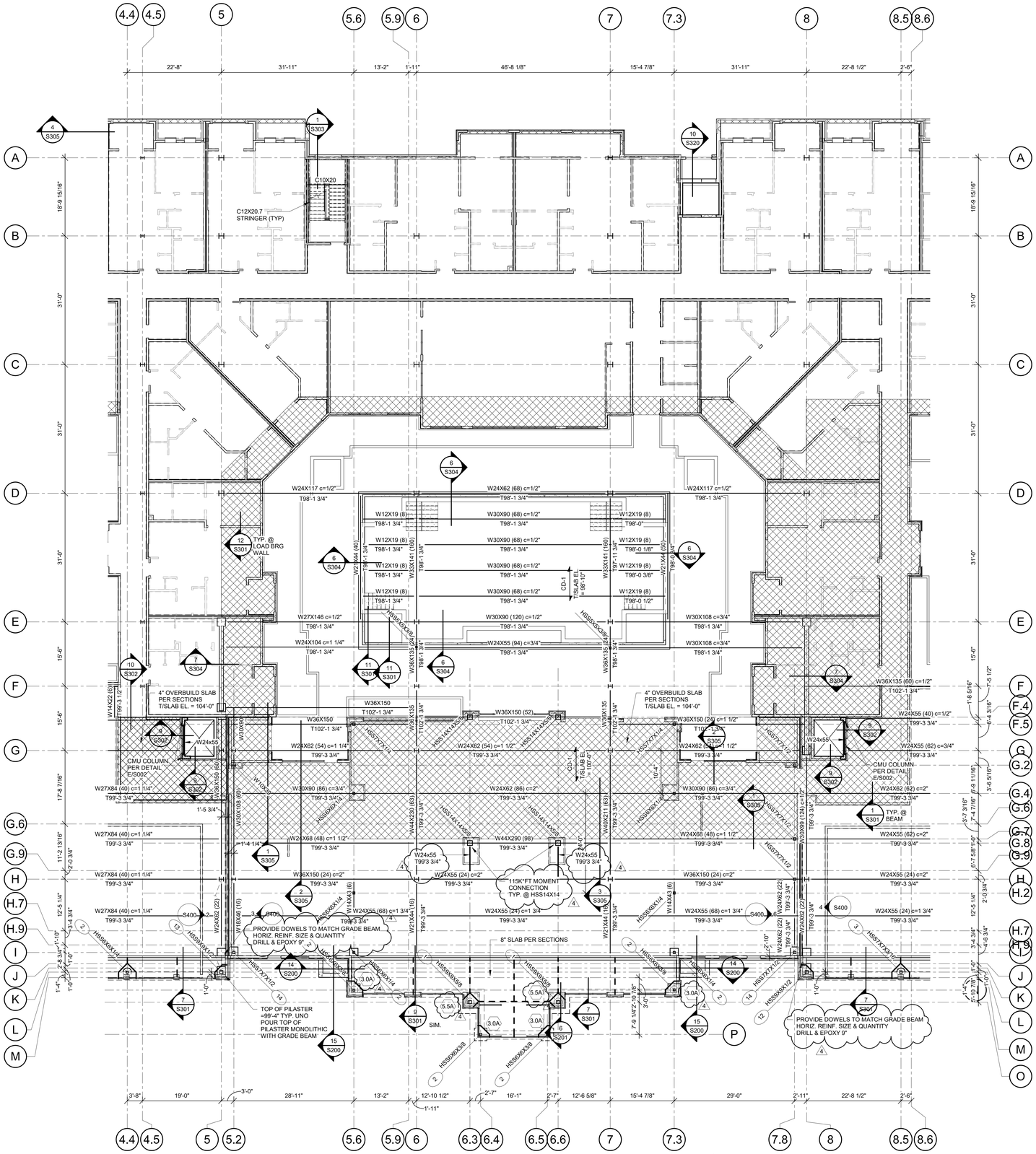
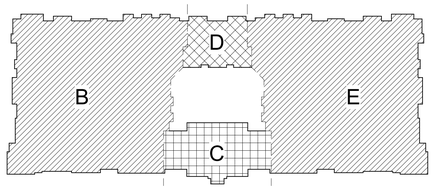
S111B-R

**COMMERCIAL FLOOR REACTIONS PLAN - AREA B**




## 1 COMMERCIAL FLOOR FRAMING PLAN- AREA C/D

3/32" = 1'-0"




RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/13/2020

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**REVISIONS** 2

4 STRUCTURAL REVISION 10.16.19

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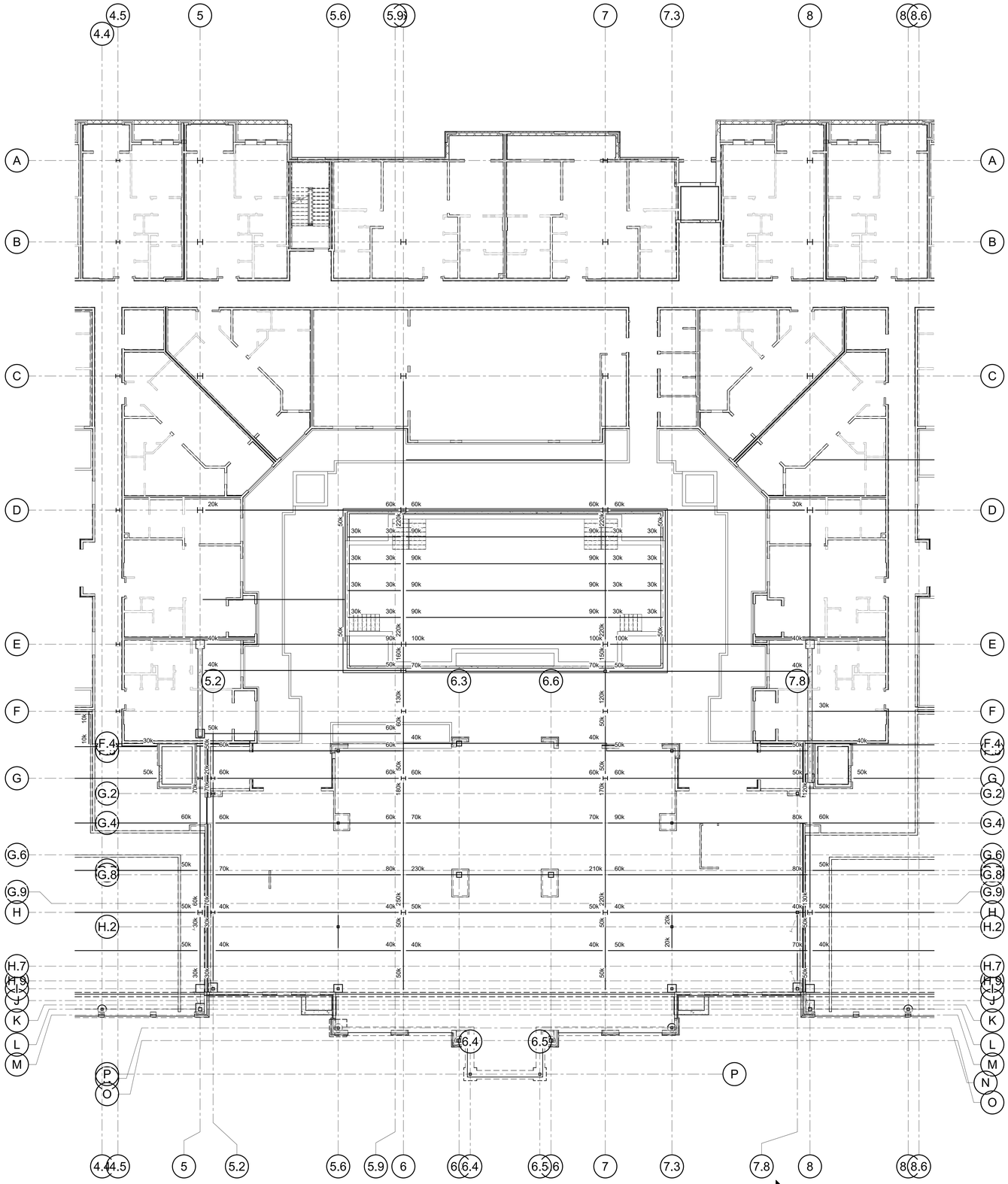
**TR.i PROJECT NO.** 18-046

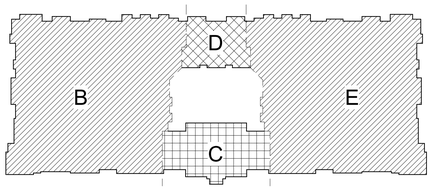
**SHEET NO.**

S111C/D

COMMERCIAL FLOOR FRAMING PLAN- AREA C/D



1 **COMMERCIAL FLOOR TENSION ROD & REACTIONS PLAN - AREA C/D**
3/32" = 1'-0"




RELEASE FOR CONSTRUCTION
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BUILDING DEPARTMENT
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
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**COMMERCIAL FLOOR REACTIONS PLAN - AREA C/D**

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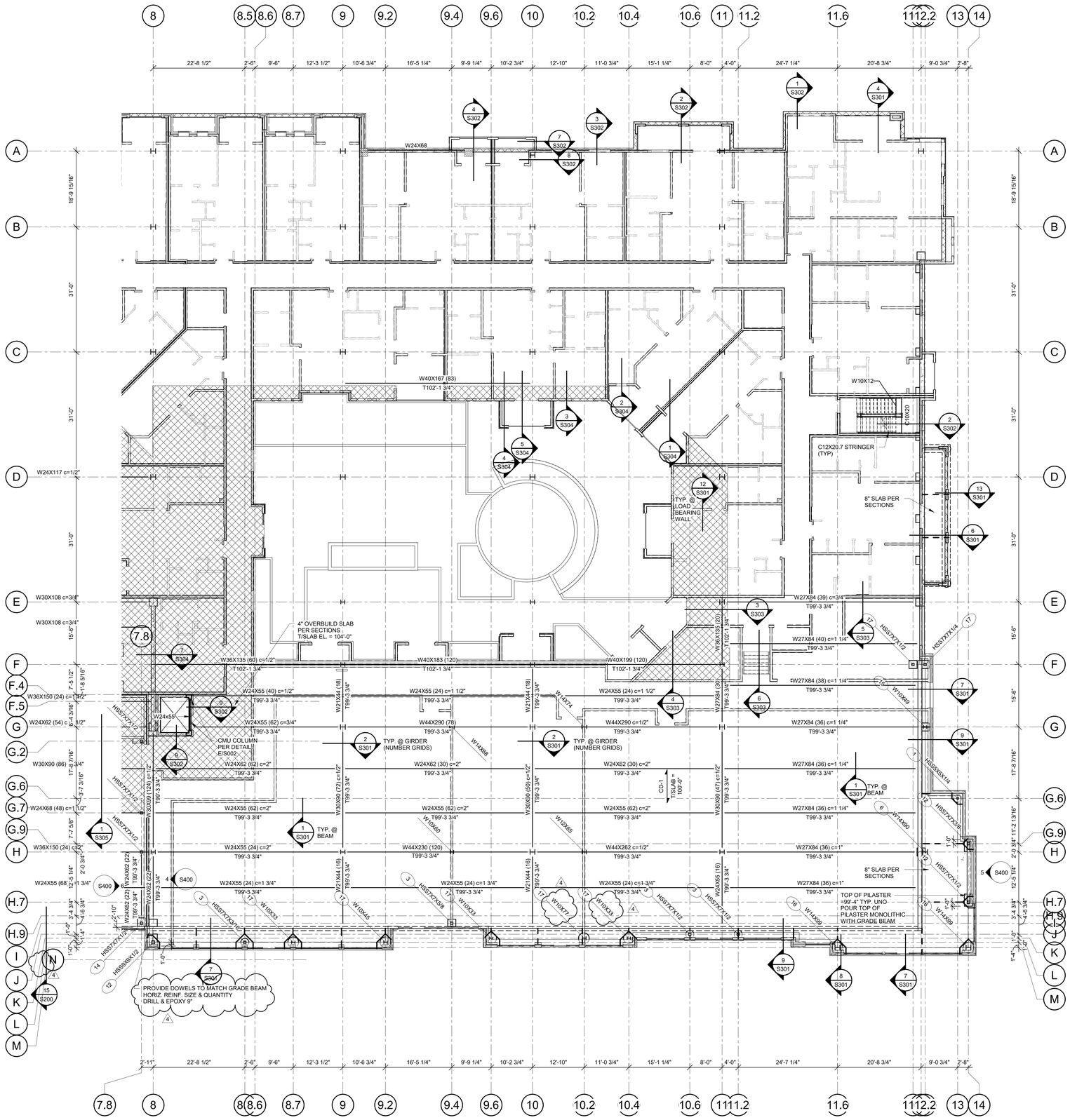
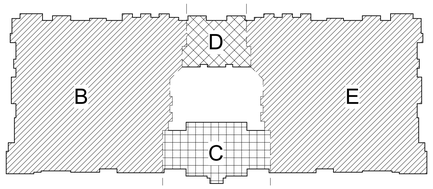
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
CLINT A. HUBER
NUMBER
PE-2010036331
10-16-19
PROFESSIONAL ENGINEER




## 1 COMMERCIAL FLOOR FRAMING PLAN- AREA E

3/32" = 1'-0"

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**REVISIONS** 2

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| 2 | BIDDER QUESTIONS | 08.12.19 |
| 4 | STRUCTURAL REVISION | 10.16.19 |

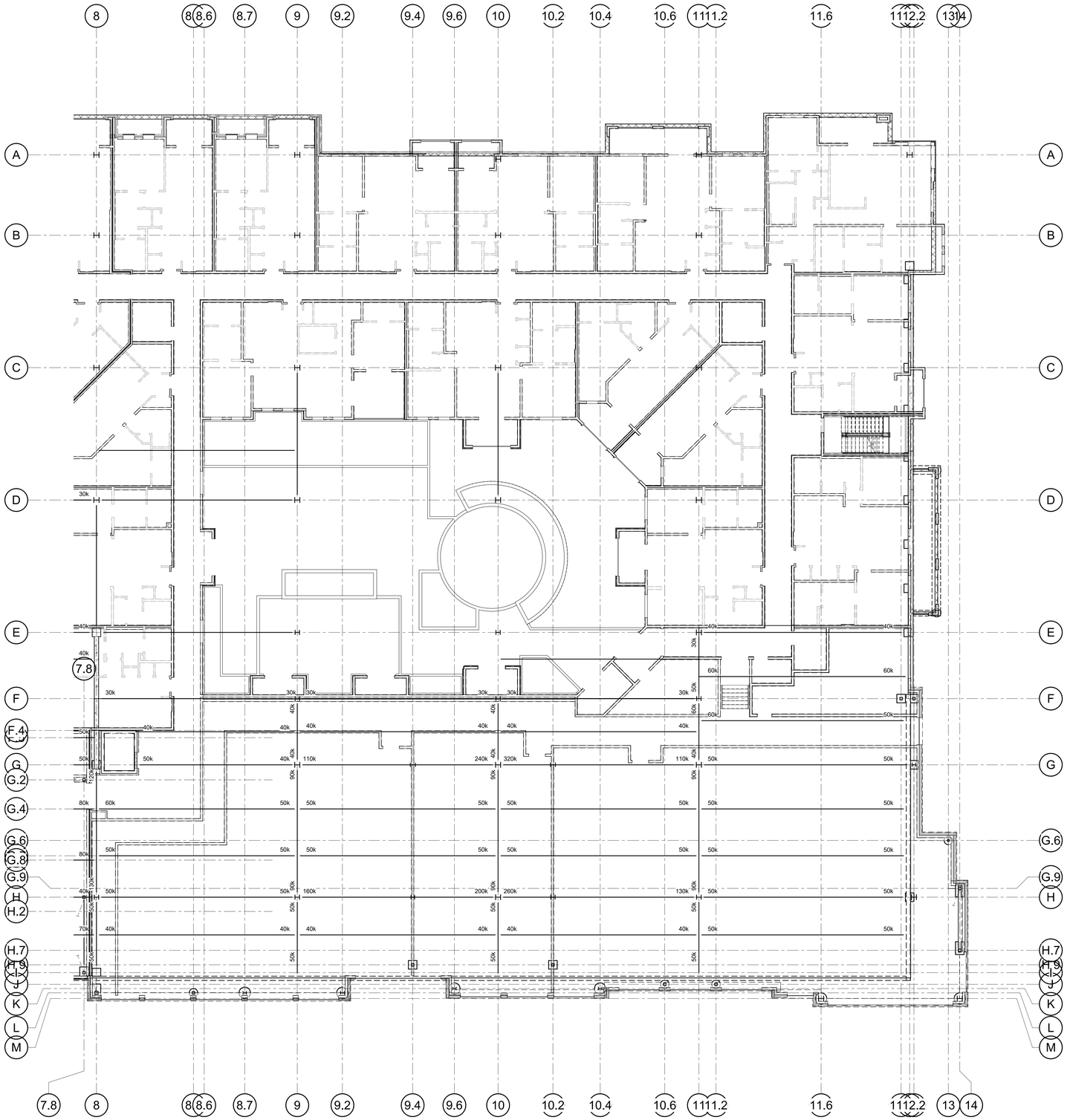
**DWG BY** Author

**TR.i PROJECT NO.** 18-046

**SHEET NO.**

# S111E

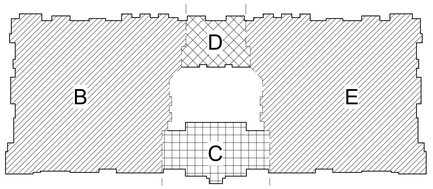
**COMMERCIAL FLOOR FRAMING PLAN- AREA E**




## 1 COMMERCIAL FLOOR TENSION ROD & REACTIONS PLAN - AREA E

3/32" = 1'-0"

N




RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
ACCEPTANCE BY THE CITY OF LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
DAVID A. WEBB
Architects
PE-2010026832
7-28-19
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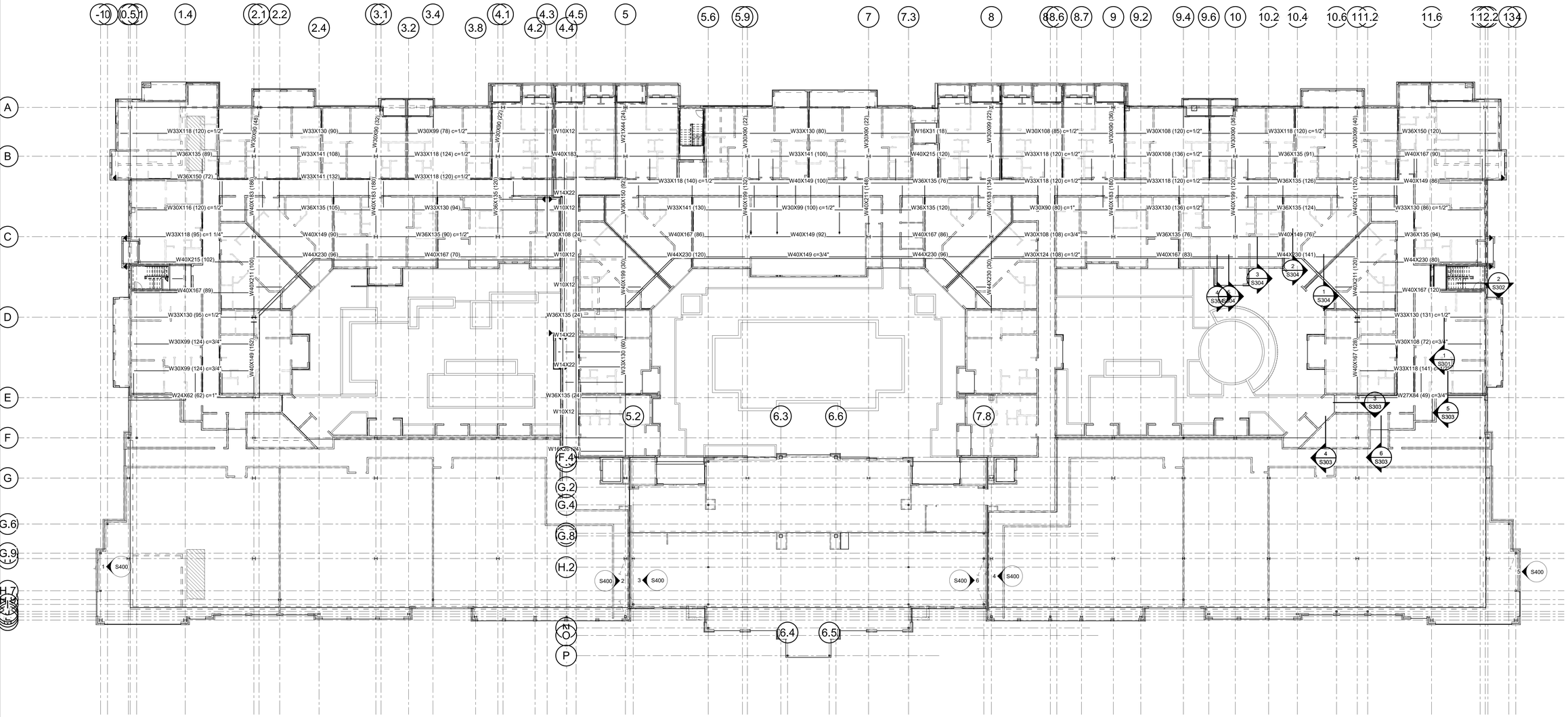
**SHEET NO.**

# S111E-R

**COMMERCIAL FLOOR REACTIONS PLAN - AREA E**




## 1 FIRST FLOOR FRAMING PLAN

1/16" = 1'-0"

N

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ACCEPTANCE BY THE CITY OF LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
Author
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MECHANICAL ENGINEER
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**SHEET NO.**

S112

**FIRST FLOOR FRAMING PLAN**

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LEE'S SUMMIT, MISSOURI
08/13/2020

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PLUMBING ENGINEER
ELECTRICAL ENGINEER

CLIENT NAME
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CIVIL
ENGINEER
PLUMBING
ELECTRICAL

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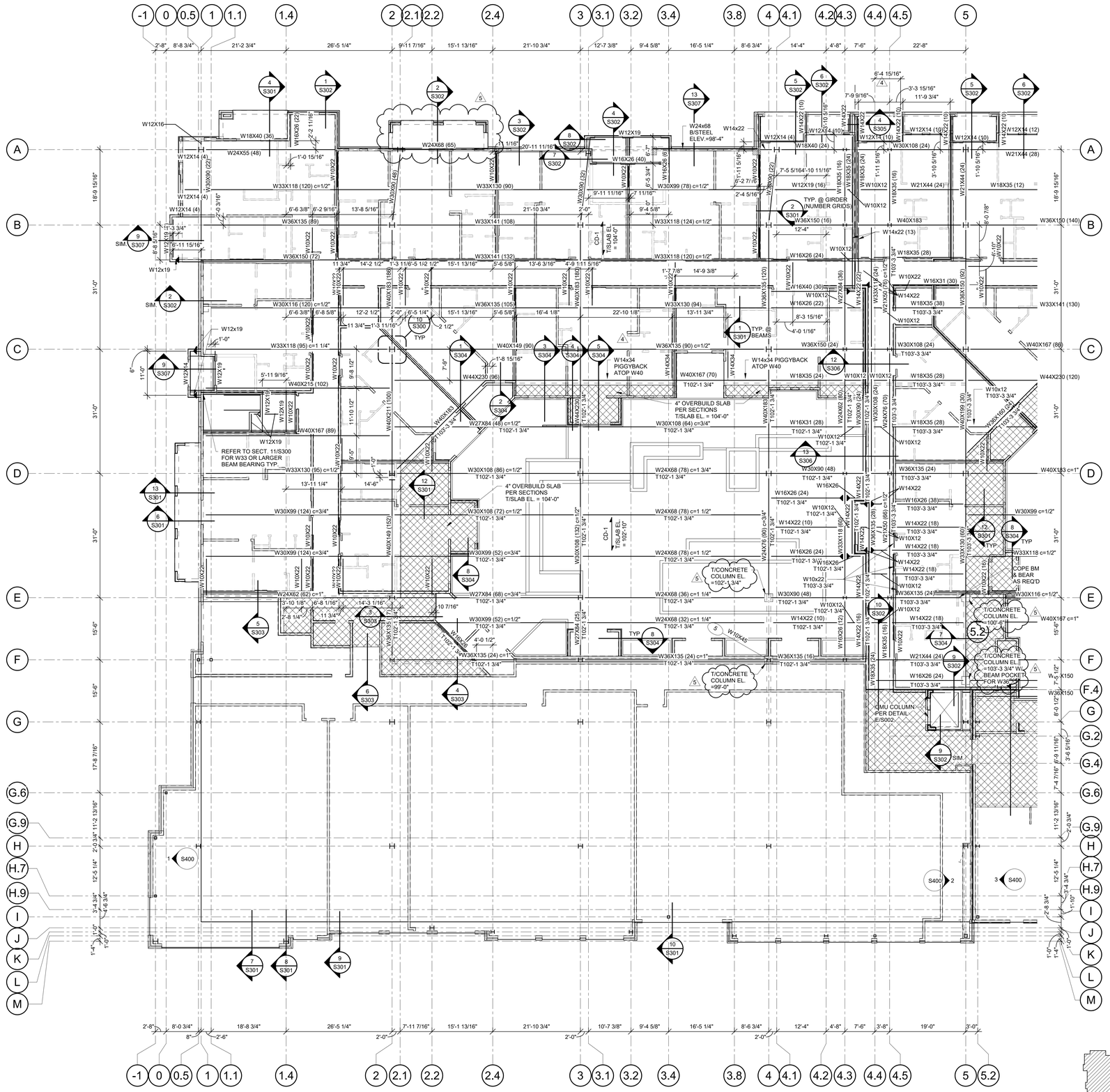
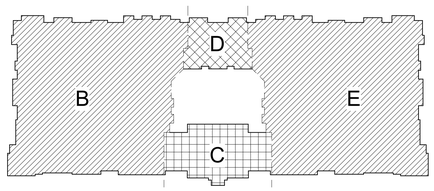



## 1 FIRST FLOOR FRAMING PLAN- AREA B

3/32" = 1'-0"

NOTES:
1.) TOP OF STEEL ELEVATION=103'-3 3/4" UNLESS NOTED OTHERWISE.
2.) REFER TO A401 FOR COURTYARD CONCRETE. SHEM WALL LOCATIONS AND WIDTHS REINFORCE W/ #4 @ 12"oc EACH WAY, DRILL & EPOXY VERTICAL REINF. 3" INTO SLAB BELOW

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**REVISIONS** 2

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|---|---|---|
| 4 | STRUCTURAL REVISION | 10.16.19 |
| 5 | STRUCTURAL REVISION 2 | 11.7.19 |

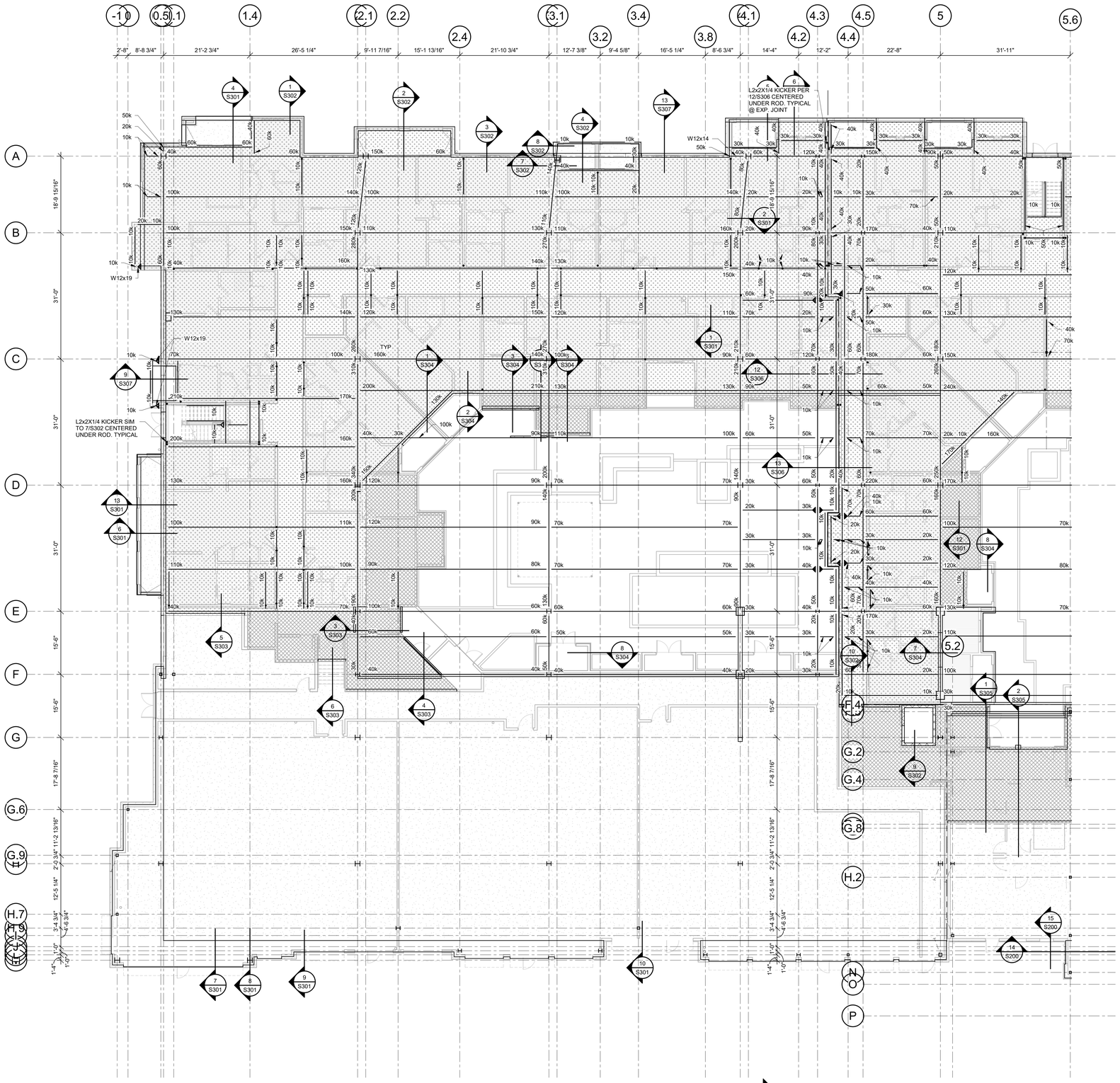
**DWG BY** Author

**TR.i PROJECT NO.** 18-046

**SHEET NO.**

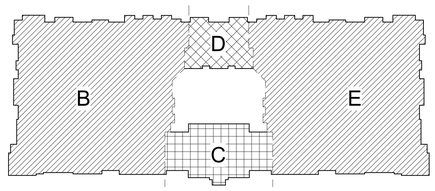
# S112B

**FIRST FLOOR 1 FRAMING PLAN- AREA B**




## 1 FIRST FLOOR TENSION ROD & REACTIONS PLAN - AREA B

3/32" = 1'-0"




RELEASE FOR CONSTRUCTION
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04/13/2020

STATE OF MISSOURI
CHRISTOPHER J. BARNHART
Architect
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PLUMBING ENGINEER
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**REVISIONS** 4

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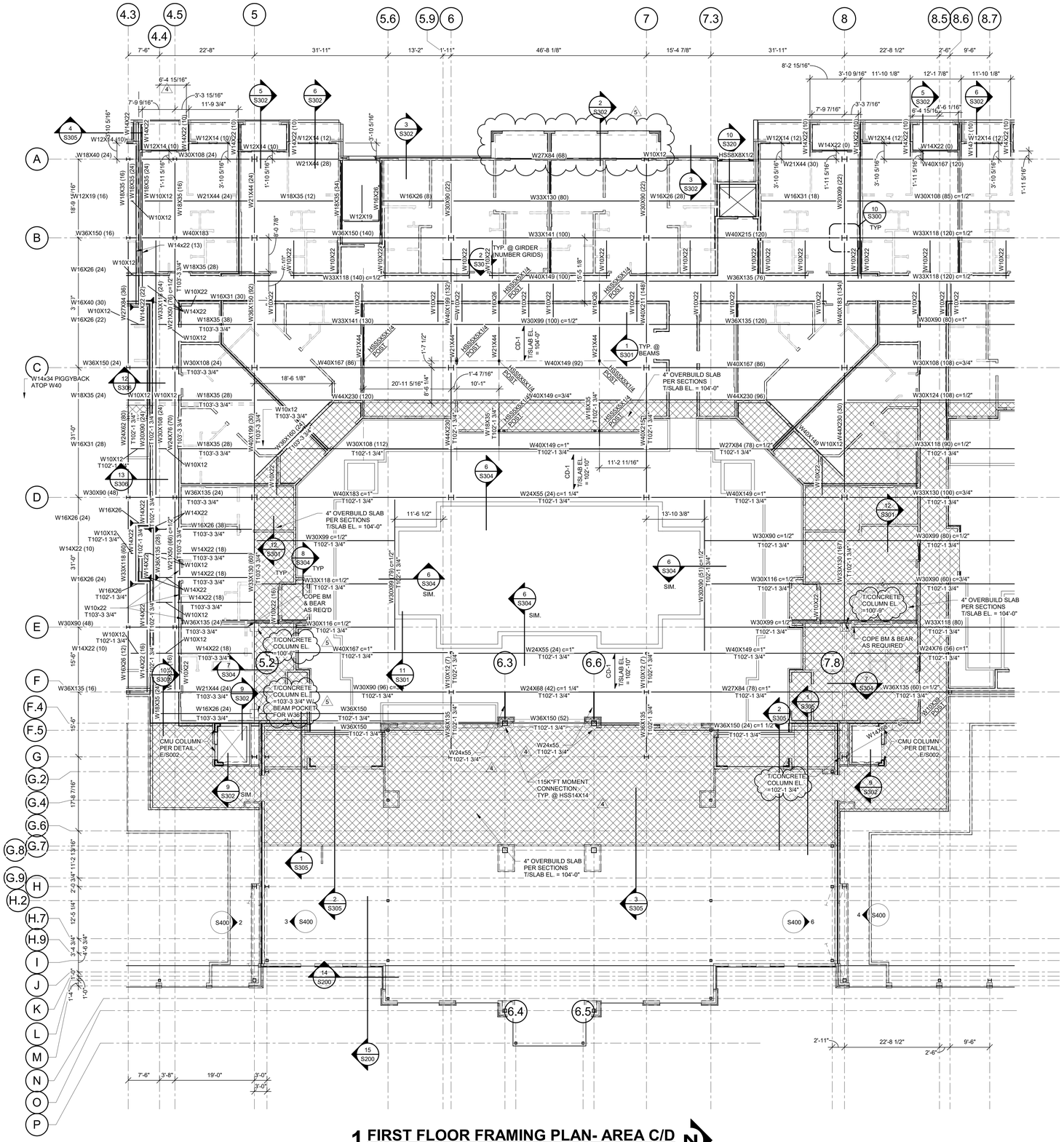
**SHEET NO.**

# S112B-TR

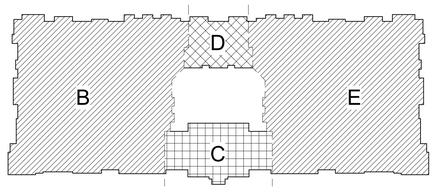
**FIRST FLOOR 1 TENSION ROD & REACTIONS PLAN - AREA B**




## 1 FIRST FLOOR FRAMING PLAN- AREA C/D

3/32" = 1'-0"

NOTES:
1.) TOP OF STEEL ELEVATION=103'-3 3/4" UNLESS NOTED OTHERWISE.
2.) REFER TO A401 FOR COURTYARD CONCRETE. SHEM WALL LOCATIONS AND W/DTHS REINFORCE W/ #4 @ 12"oc EACH WAY, DRILL & EPOXY VERTICAL REINF. 3" INTO SLAB BELOW




RELEASE FOR CONSTRUCTION
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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
Date 04/13/2020

STATE OF MISSOURI
DAVID A. STOCK
NUMBER
PE-2010026932
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PROFESSIONAL ENGINEER

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ELECTRICAL ENGINEER

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**REVISIONS**

| | | |
|---|---|---|
| 2 | BIDDER QUESTIONS | 08.12.19 |
| 4 | STRUCTURAL REVISION | 10.16.19 |
| 5 | STRUCTURAL REVISION 2 | 11.7.19 |

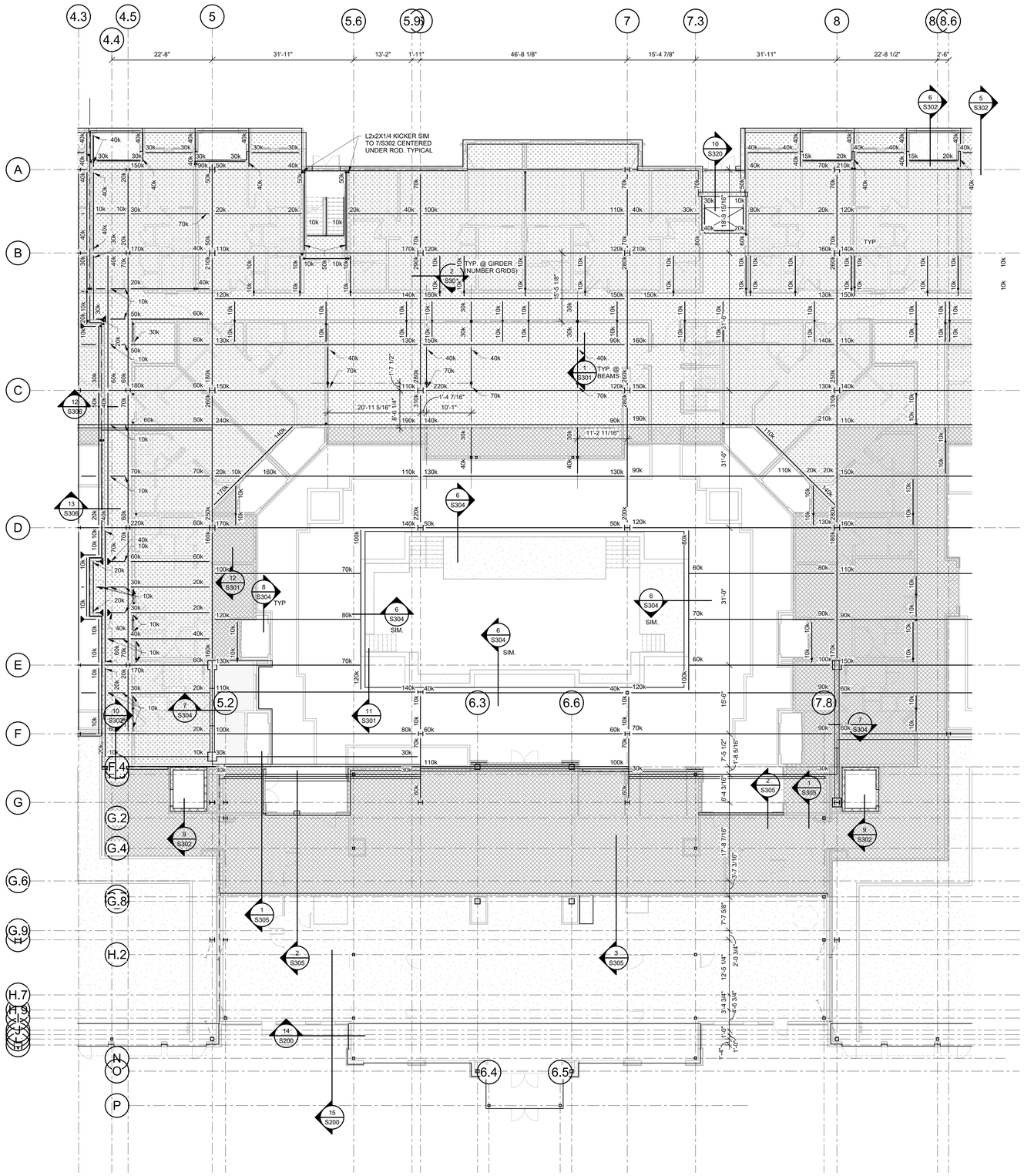
**DWG BY** Author

**TR.i PROJECT NO.** 18-046

**SHEET NO.**

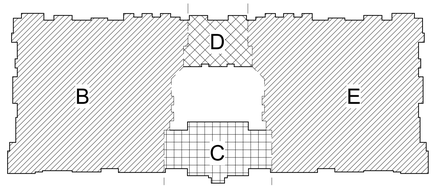
S112C/D

**FIRST FLOOR 1 FRAMING PLAN- AREA C/D**




## 1 FIRST FLOOR TENSION ROD & REACTIONS PLAN - AREA C/D

3/32" = 1'-0"




RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
ACCEPTANCE BY CITY OF LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
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PLUMBING ENGINEER
ELECTRICAL ENGINEER

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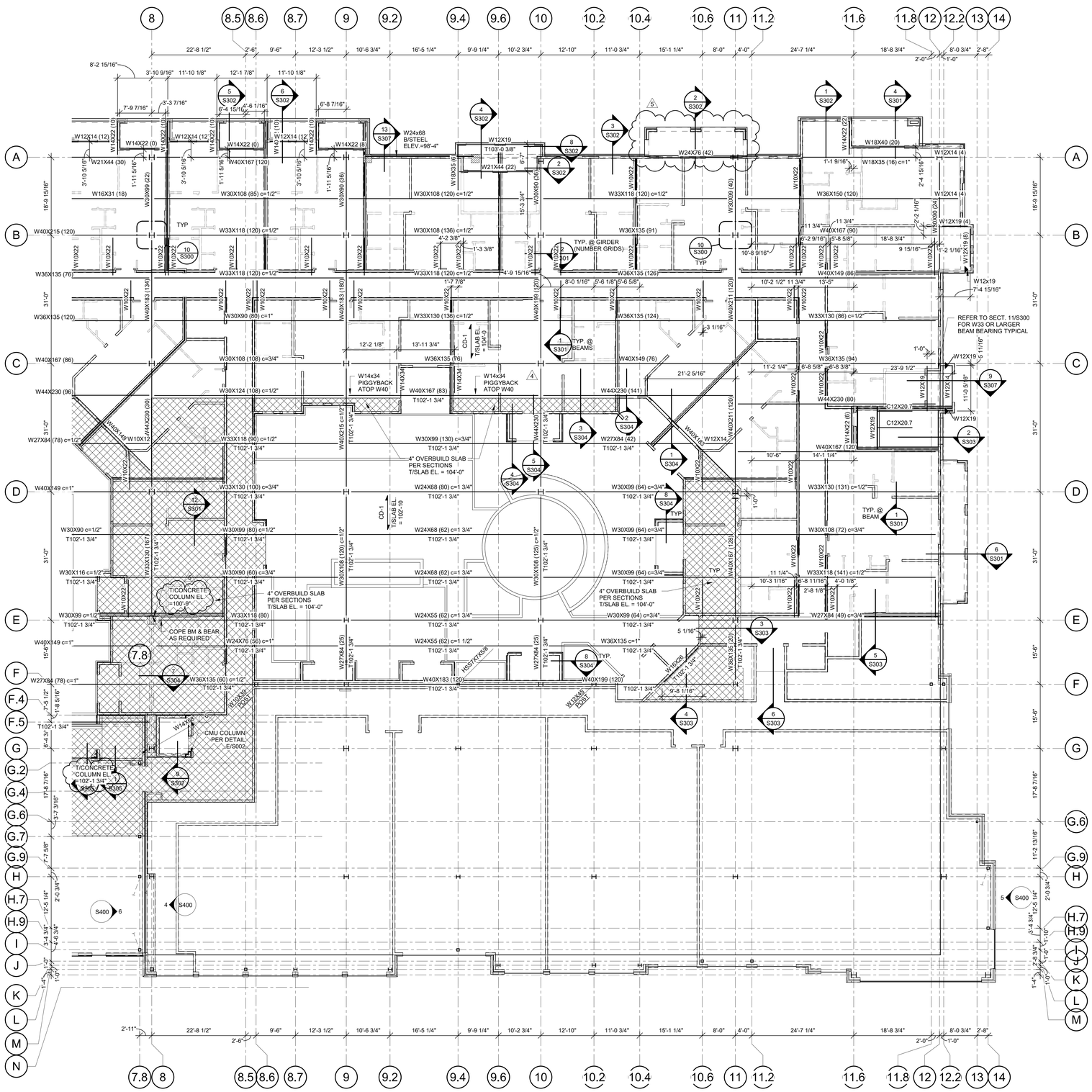
**DWG BY** Author

**TR.i PROJECT NO.** 18-046

**SHEET NO.**

S112C/D-TR

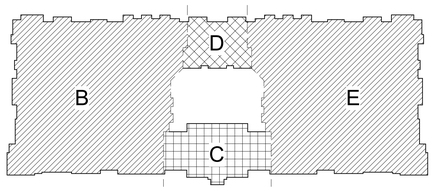
**FIRST FLOOR 1 TENSION ROD & REACTIONS PLAN - AREA C/D**




## 1 FIRST FLOOR FRAMING PLAN- AREA E

3/32" = 1'-0"

NOTES:
1.) TOP OF STEEL ELEVATION=103'-3 3/4" UNLESS NOTED OTHERWISE.
2.) REFER TO A401 FOR COURTYARD CONCRETE. SHEM WALL LOCATIONS AND WIDTHS REINFORCE W/ #4 @ 12"oc EACH WAY, DRILL & EPOXY VERTICAL REINF. 3" INTO SLAB BELOW




RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
DAVID A. VOGT
NUMBER
A-2010026832
11-7-19
PROFESSIONAL ENGINEER

CLIENT
ARCHITECT
STRUCTURAL ENGINEER
CIVIL ENGINEER
MECHANICAL ENGINEER
PLUMBING ENGINEER
ELECTRICAL ENGINEER

CLIENT NAME
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# Summit at West Pryor

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**REVISIONS** 2

| | | |
|---|---|---|
| 2 | BIDDER QUESTIONS | 08.12.19 |
| 4 | STRUCTURAL REVISION | 10.16.19 |
| 5 | STRUCTURAL REVISION 2 | 11.7.19 |

**DWG BY** Author

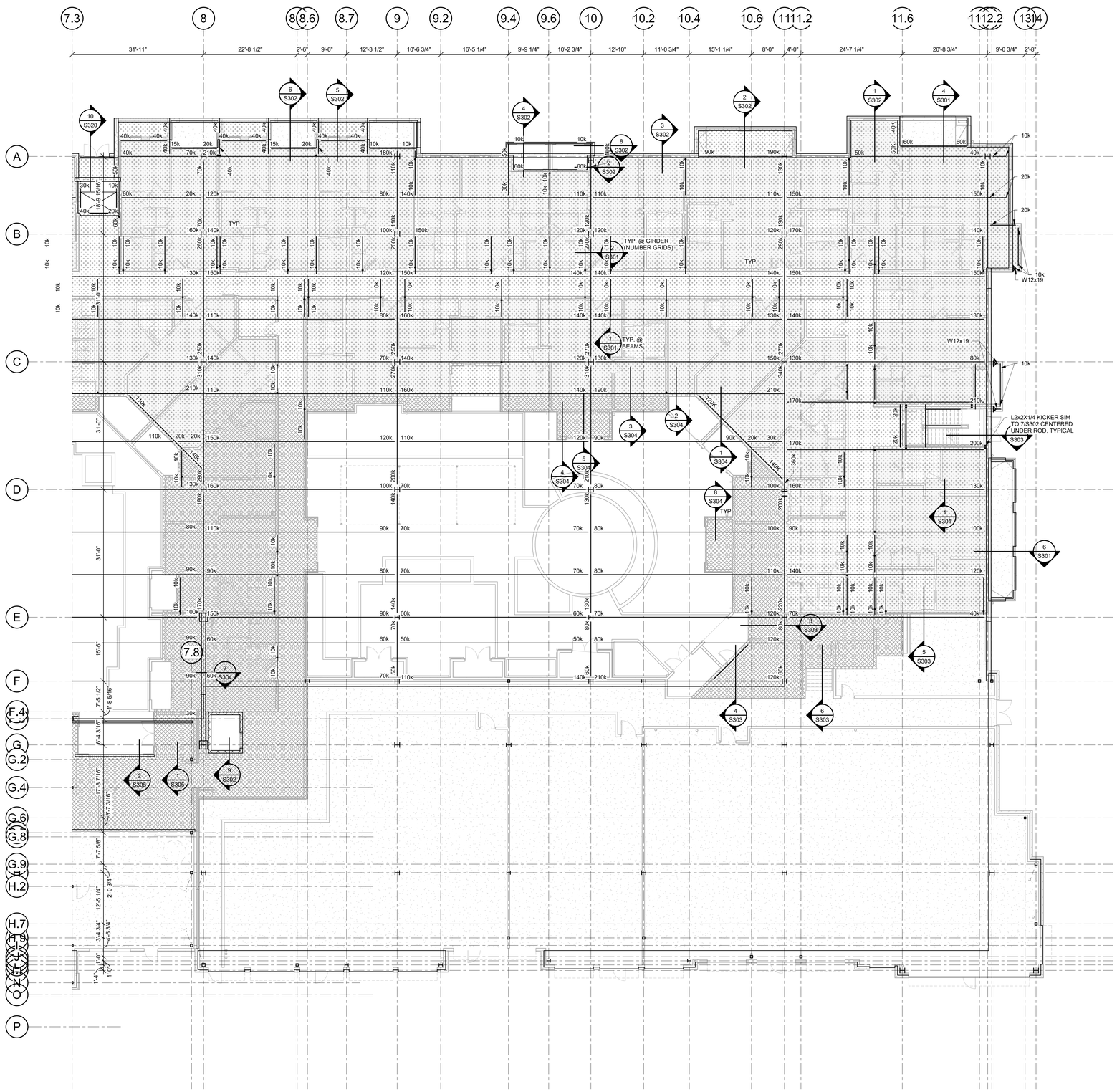
**TR.i PROJECT NO.** 18-046

**SHEET NO.**

# S112E

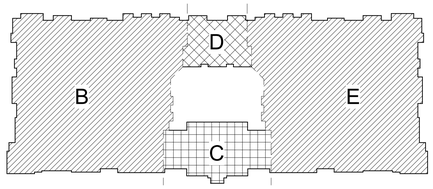
**FIRST FLOOR 1 FRAMING PLAN- AREA E**

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
ACCEPTANCE BY THE CITY OF LEE'S SUMMIT, MISSOURI
04/13/2020




## 1 FIRST FLOOR TENSION ROD & REACTIONS PLAN - AREA E

3/32" = 1'-0"

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CIVIL ENGINEER
MECHANICAL ENGINEER
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ELECTRICAL ENGINEER

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**REVISIONS** 1

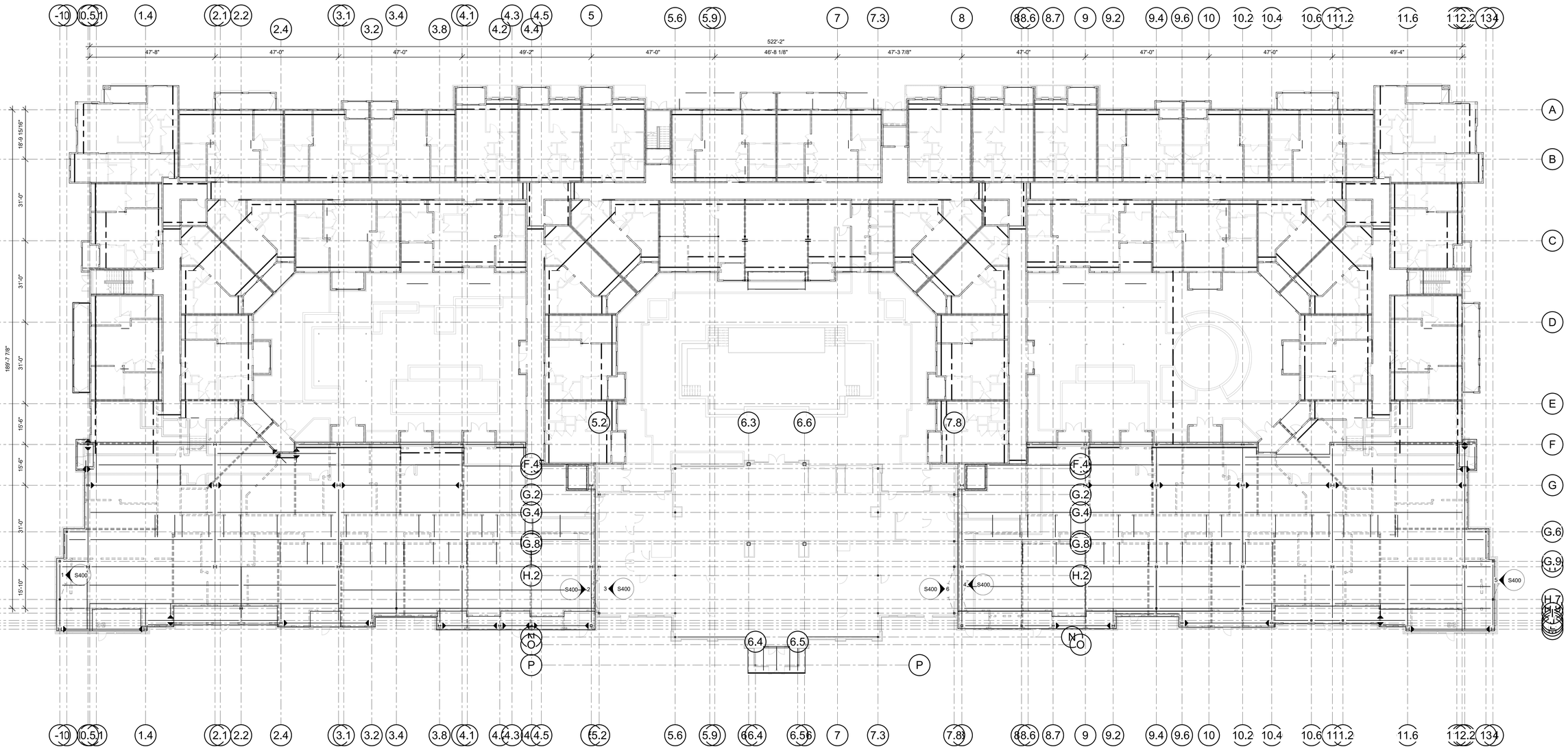
**DWG BY** Author

**TR.i PROJECT NO.** 18-046

**SHEET NO.**

S112E-TR

FIRST FLOOR 1 TENSION ROD & REACTIONS PLAN - AREA E




1 **SECOND FLOOR FRAMING PLAN**
1/16" = 1'-0"

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
ACCEPTANCE DOES NOT
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
BARRY J. WILSON
NUMBER
PE-2010026832
7-28-19

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CIVIL ENGINEER
MECHANICAL ENGINEER
PLUMBING ENGINEER
ELECTRICAL ENGINEER

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**REVISIONS** A

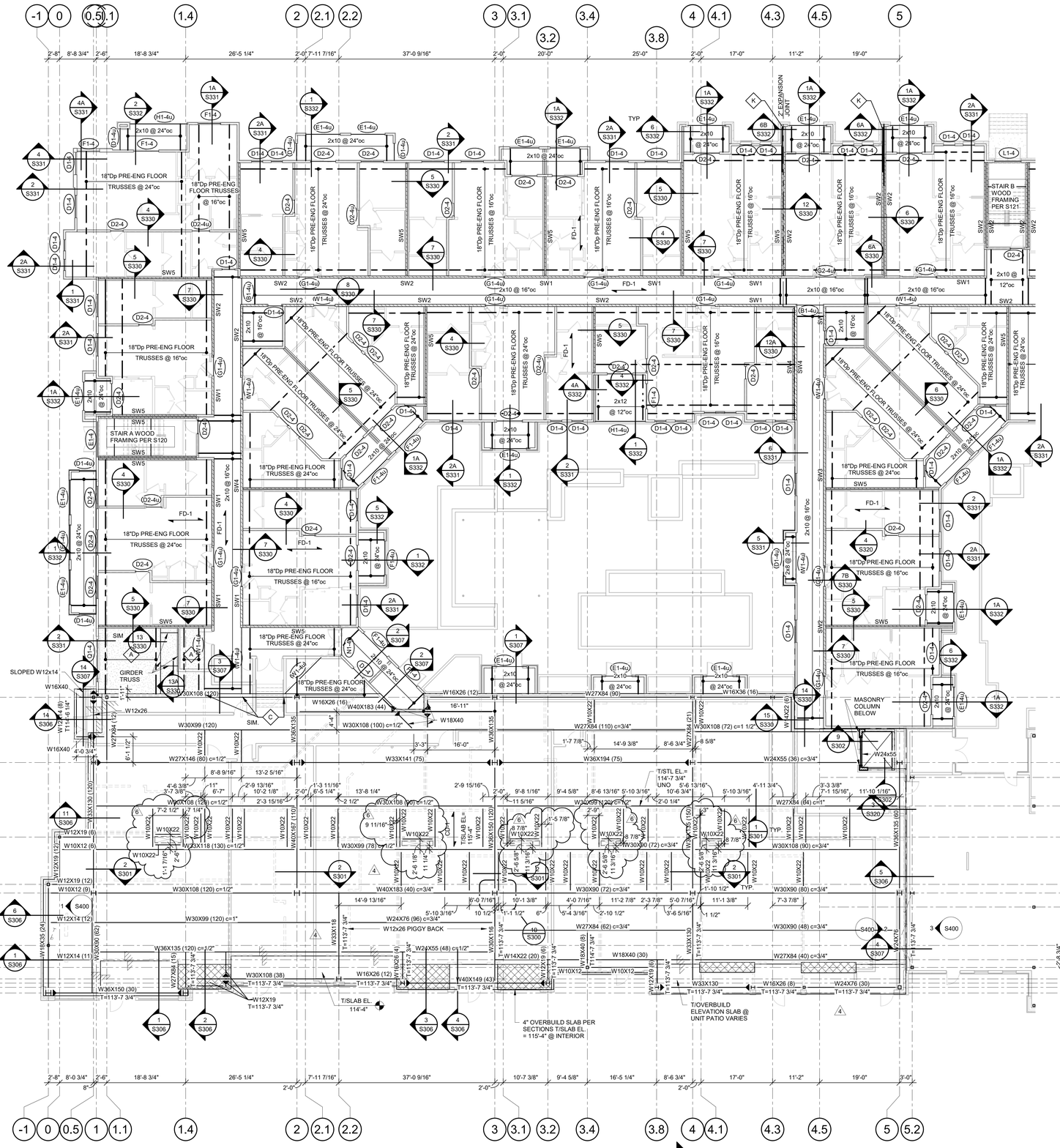
**DWG BY** Author

**TR.i PROJECT NO.** 18-046

**SHEET NO.**

S113

**SECOND FLOOR FRAMING PLAN**



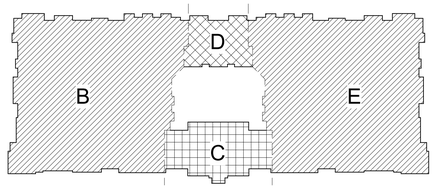

## 1 SECOND FLOOR FRAMING PLAN- AREA B

1/8"=1'-0"

NOTES:
1. PROVIDE BENT PLATE AND DOWELS PER SECTION 14/S330 TYP. @ SHAFT OPENINGS. SLAB EDGE TO BE 6" FROM CENTERLINE OF BEAM U.N.O.

## WOOD FLOOR FRAMING

NOTES:
1. REFER TO GENERAL NOTES ON SHEET S001.
2. REFER TO STUD BEARING WALL SCHEDULE ON SHEET S003.
3. REFER TO HEADER/BEAM/JAMB SCHEDULE ON SHEET S003.
4. REFER TO SHEARWALL AND HOLDOWN SCHEDULE ON S004.
5. REFER TO STAIR FRAMING PLANS ON SHEET S120.
6. REFER TO S330 SERIES OF SHEETS FOR ADDITIONAL FLOOR FRAMING DETAILS NOT INDICATED HERE
7. PROVIDE TRUSS SPACE DIRECTLY ABOVE AND CENTERED OVER HVAC CLOSET; REFER TO ARCH AND MEP DRAWINGS FOR LOCATIONS.
8. REFER TO S001 FOR SLAB AND DECK SCHEDULE
   A. WOOD FLOOR DECK TO BE DECK TYPE "FD-1" U.N.O.
   B. BALCONY FLOOR DECK TO BE DECK TYPE "CD-2" U.N.O.
9. ADD 1 1/4" SILL PL BETWEEN 2nd FLOOR DECK & BOTTOM PLATE @ ALL LOAD BEARING 4 STORY WOOD STUD WALLS.
10. PUBLIC AREA: DESIGN FOR LIVE LOAD PER GENERAL NOTE 2.B ON S001
    STORAGE AREA: DESIGN FOR LIVE LOAD PER GENERAL NOTE 2.B ON S001




RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
CHRISTOPHER A. BOWER
NUMBER
PE-2010026332
12-20-19
PROFESSIONAL ENGINEER

| | |
|---|---|
| CLIENT | |
| ARCHITECT | |
| STRUCTURAL ENGINEER | |
| CIVIL ENGINEER | |
| MECHANICAL ENGINEER | |
| PLUMBING ENGINEER | |
| ELECTRICAL ENGINEER | |

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REVISIONS

| | | |
|---|---|---|
| 4 | STRUCTURAL REVISION | 10.16.19 |
| 6 | REVISION 1 | 12.20.19 |

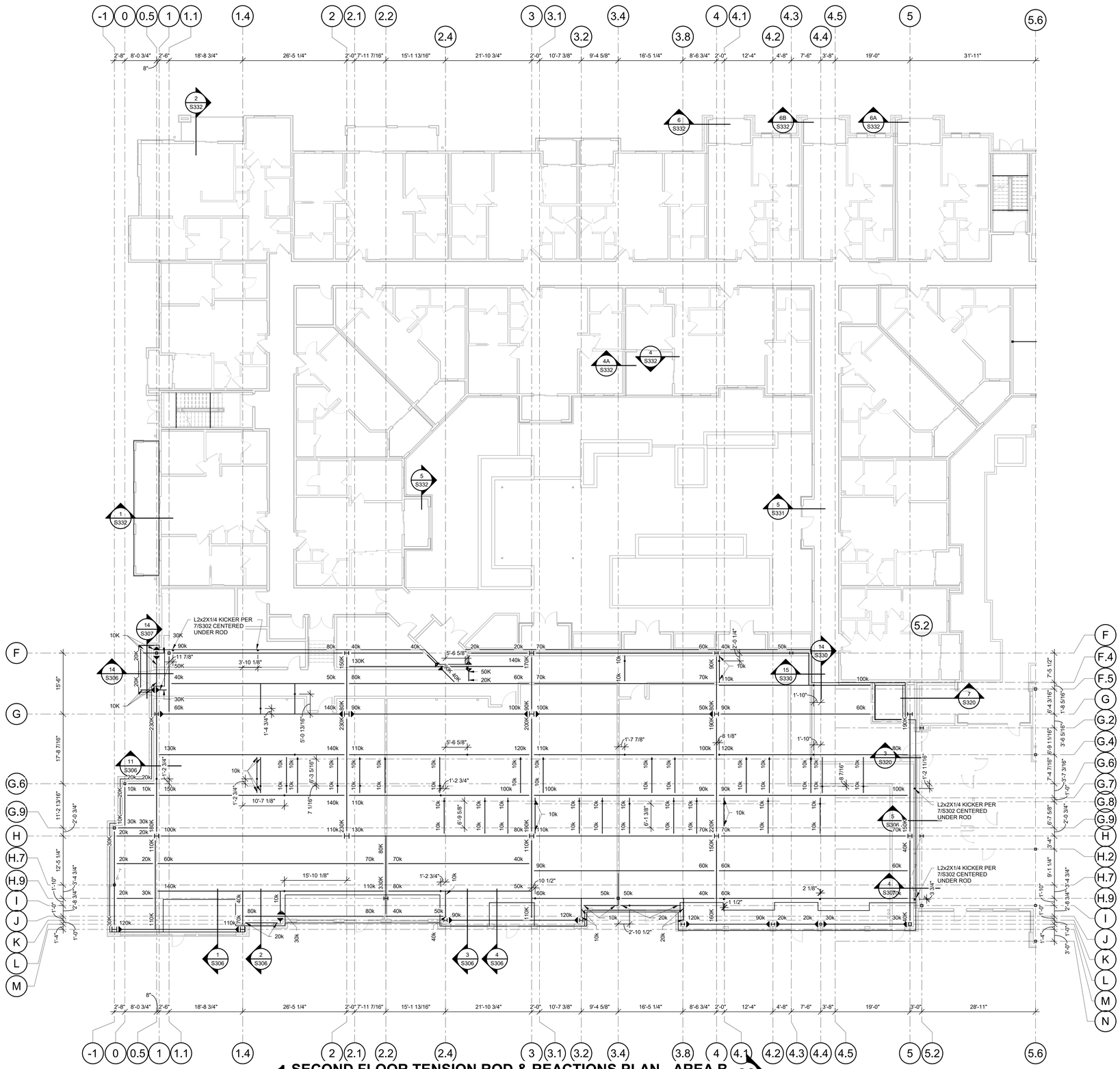
DWG BY Author

TR.i PROJECT NO. 18-046

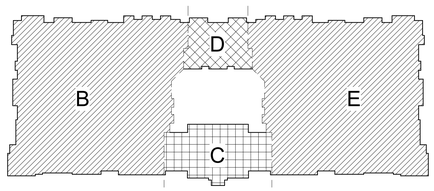
SHEET NO.

S113B

SECOND FLOOR FRAMING PLAN- AREA B




1 SECOND FLOOR TENSION ROD & REACTIONS PLAN - AREA B
3/32" = 1'-0"




RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
ACCEPTANCE BY CITY OF LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
Author
BARNES
Architects
PE-2010026832
PROFESSIONAL ENGINEER
7-28-19

CLIENT
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STRUCTURAL ENGINEER
CIVIL ENGINEER
MECHANICAL ENGINEER
PLUMBING ENGINEER
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**REVISIONS** 2

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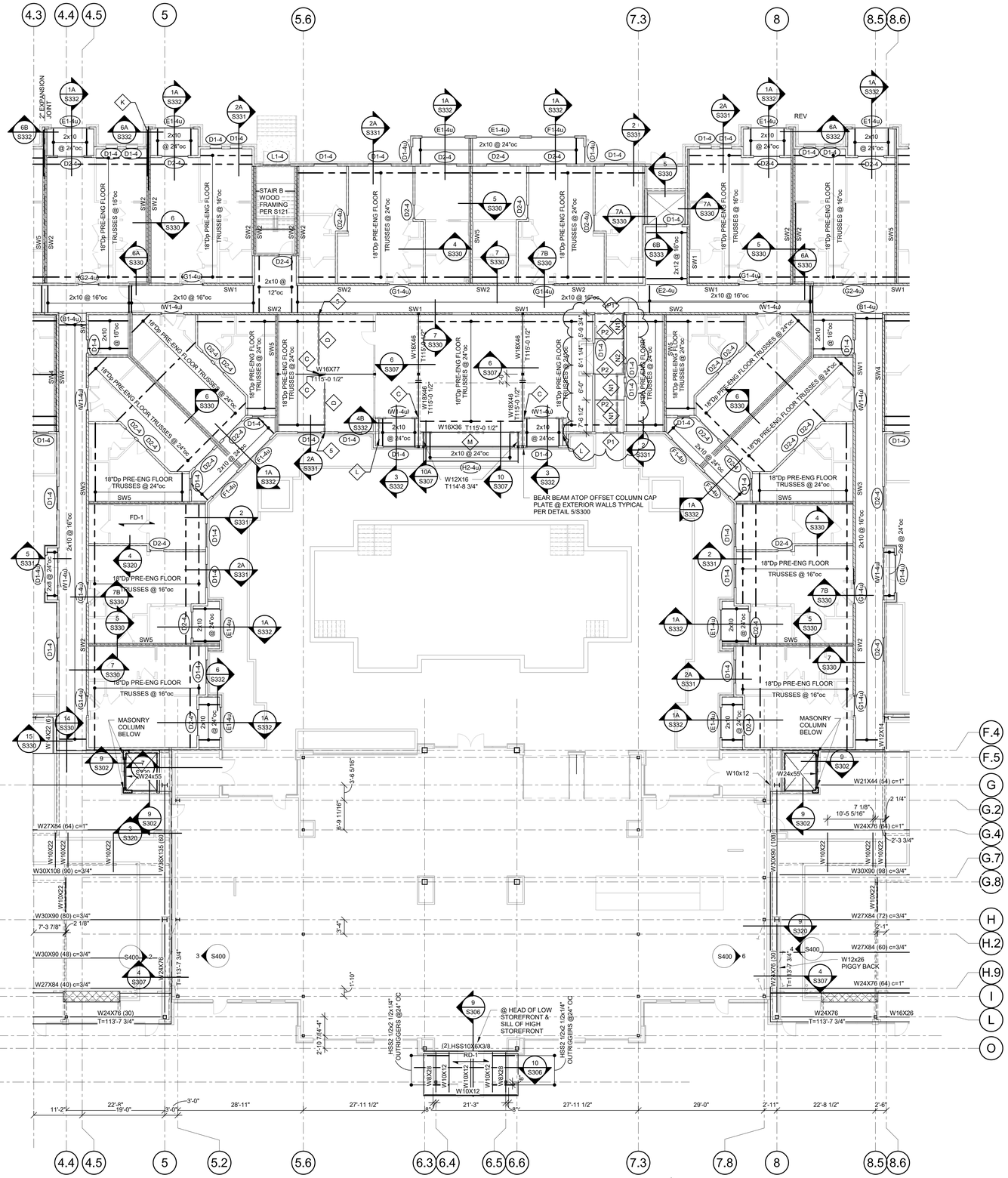
**TR.i PROJECT NO.** 18-046

**SHEET NO.**

# S113B-TR

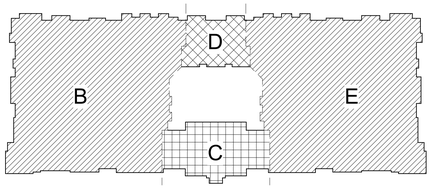
**SECOND FLOOR TENSION ROD PLAN - AREA B**




1 **SECOND FLOOR FRAMING PLAN- AREA C/D**
3/32" = 1'-0"

## WOOD FLOOR FRAMING

NOTES:
1. REFER TO GENERAL NOTES ON SHEET S001.
2. REFER TO STUD BEARING WALL SCHEDULE ON SHEET S003.
3. REFER TO HEADER/BEAM/JAMB SCHEDULE ON SHEET S003.
4. REFER TO SHEARWALL AND HOLDOWN SCHEDULE ON S004.
5. REFER TO STAIR FRAMING PLANS ON SHEET S120.
6. REFER TO S330 SERIES OF SHEETS FOR ADDITIONAL FLOOR FRAMING DETAILS NOT INDICATED HERE.
7. PROVIDE TRUSS SPACE DIRECTLY ABOVE AND CENTERED OVER HVAC CLOSET; REFER TO ARCH AND MEP DRAWINGS FOR LOCATIONS.
8. REFER TO S001 FOR SLAB AND DECK SCHEDULE.
   A. WOOD FLOOR DECK TO BE DECK TYPE "FD-1" U.N.O.
   B. BALCONY FLOOR DECK TO BE DECK TYPE "CD-2" U.N.O.
9. ADD 1 1/4" SILL PL BETWEEN 2nd FLOOR DECK & BOTTOM PLATE @ ALL LOAD BEARING 4 STORY WOOD STUD WALLS.
10. PUBLIC AREA: DESIGN FOR LIVE LOAD PER GENERAL NOTE 2.B ON S001
    STORAGE AREA: DESIGN FOR LIVE LOAD PER GENERAL NOTE 2.B ON S001




RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
CHRISTOPHER A. BARTLETT
NUMBER
PE-2010026832
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04-11-2020

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**REVISIONS** 4

| | | |
|---|---|---|
| 8 | REVISION 3 | 04.03.20 |

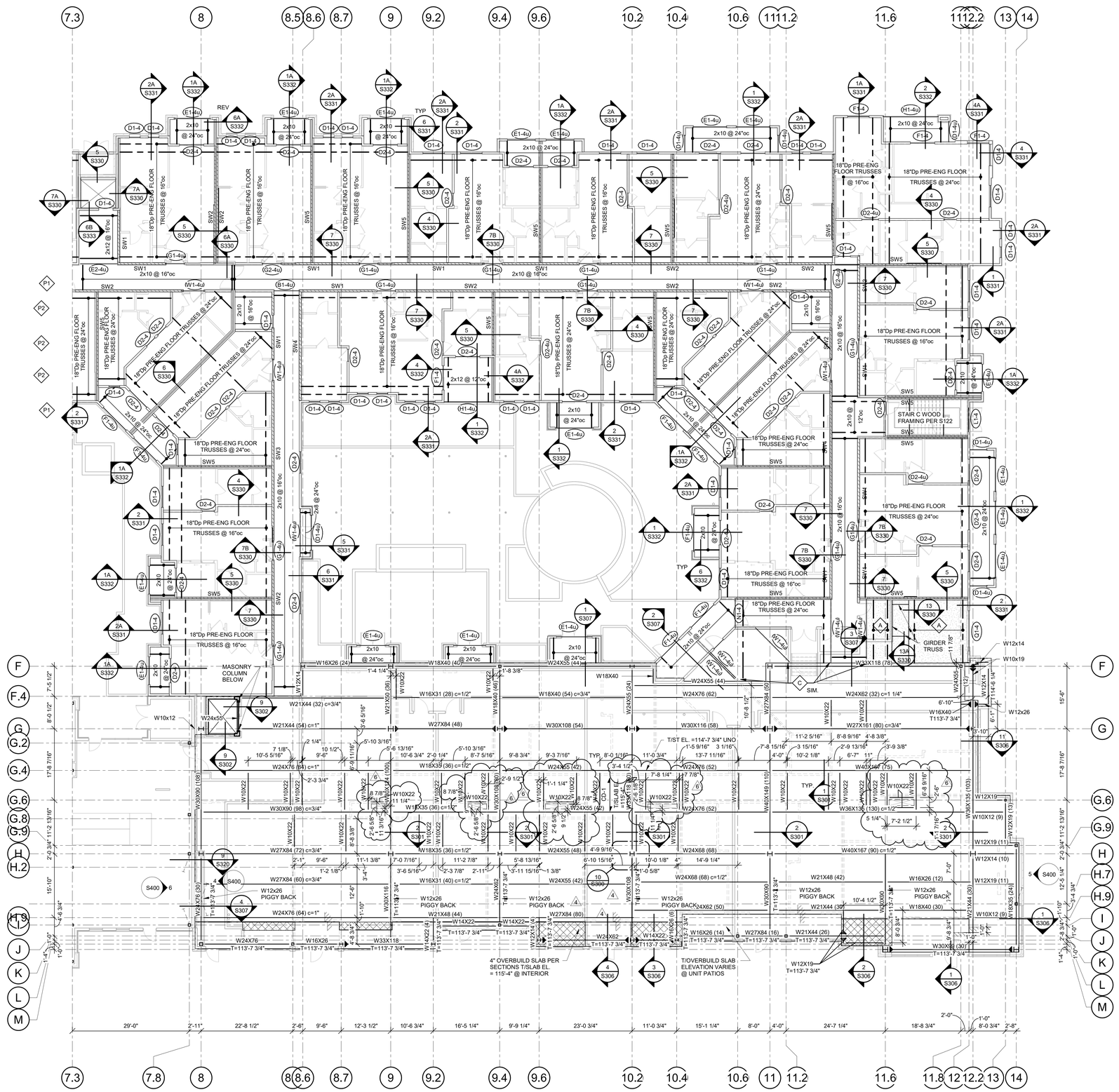
**DWG BY** Author

**TR.i PROJECT NO.** 18-046

**SHEET NO.**

S113C/D

**SECOND FLOOR FRAMING PLAN- AREA C/D**




## 1 SECOND FLOOR FRAMING PLAN- AREA E

3/32" = 1'-0"

NOTES:
1. PROVIDE BENT PLATE AND DOWELS PER SECTION 14/S330 TYP. @ SHAFT OPENINGS. SLAB EDGE TO BE 6" FROM CENTERLINE OF BEAM U.N.O.

## WOOD FLOOR FRAMING

NOTES:
1. REFER TO GENERAL NOTES ON SHEET S001.
2. REFER TO STUD BEARING WALL SCHEDULE ON SHEET S003.
3. REFER TO HEADER/BEAM/JAMB SCHEDULE ON SHEET S003.
4. REFER TO SHEARWALL AND HOLDOWN SCHEDULE ON S004.
5. REFER TO STAIR FRAMING PLANS ON SHEET S120.
6. REFER TO S330 SERIES OF SHEETS FOR ADDITIONAL FLOOR FRAMING DETAILS NOT INDICATED HERE
7. PROVIDE TRUSS SPACE DIRECTLY ABOVE AND CENTERED OVER HVAC CLOSET; REFER TO ARCH AND MEP DRAWINGS FOR LOCATIONS.
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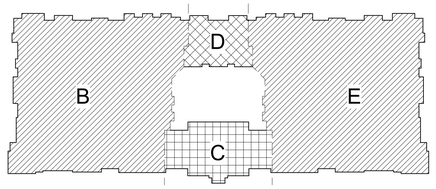


RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
CHRISTOPHER A. BOWER
NUMBER
PE-2010026332
12-20-19
PROFESSIONAL ENGINEER

| | |
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| ARCHITECT | |
| STRUCTURAL ENGINEER | |
| CIVIL ENGINEER | |
| MECHANICAL ENGINEER | |
| PLUMBING ENGINEER | |
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**REVISIONS** 4

| | | |
|---|---|---|
| 4 | STRUCTURAL REVISION | 10.16.19 |
| 6 | REVISION 1 | 12.20.19 |

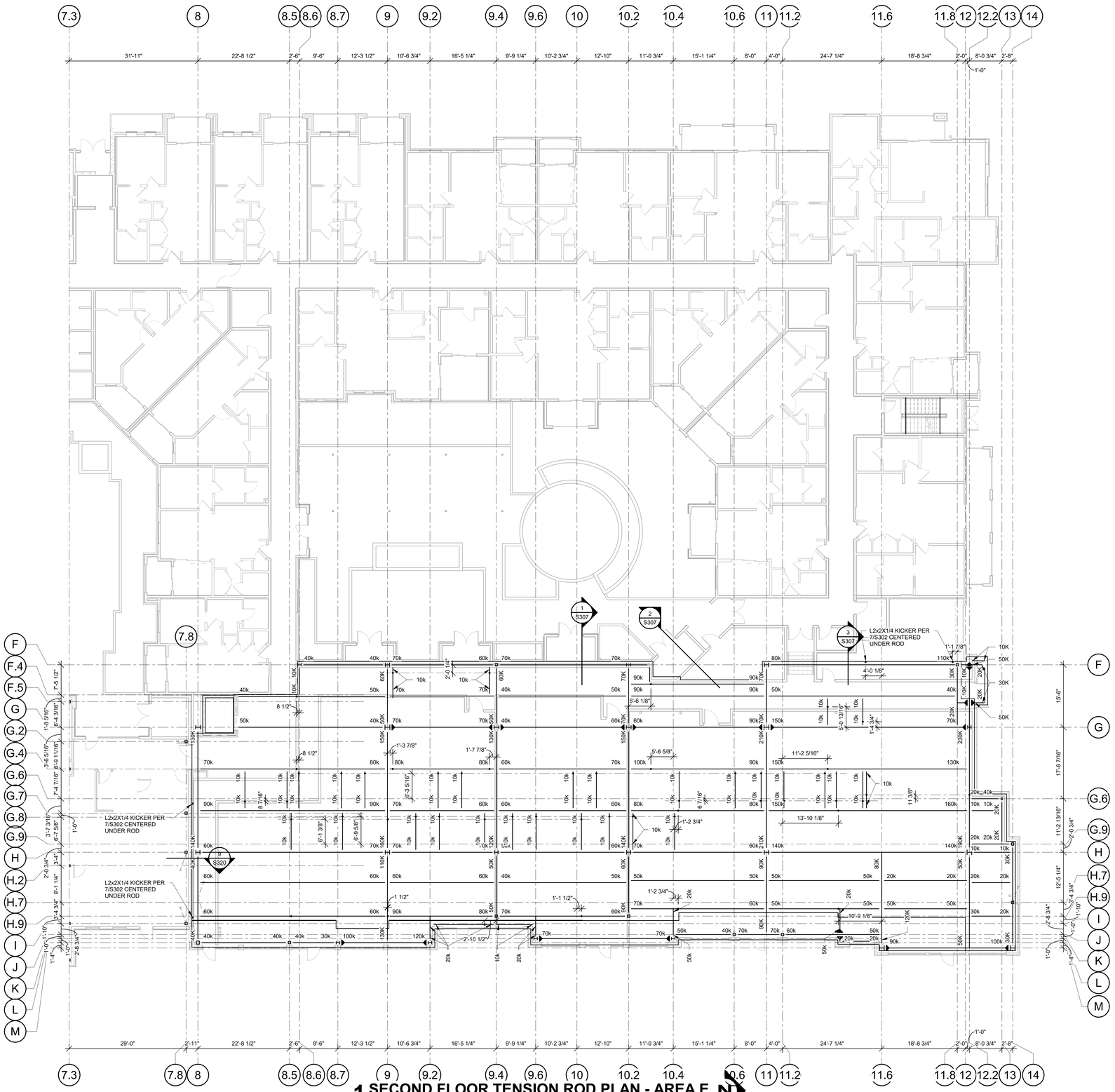
**DWG BY** Author

**TR.i PROJECT NO.** 18-046

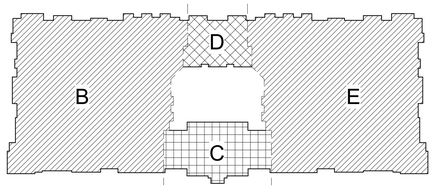
**SHEET NO.**

# S113E

**SECOND FLOOR FRAMING PLAN- AREA E**




1 SECOND FLOOR TENSION ROD PLAN - AREA E
3/32" = 1'-0"




RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
ACCEPTANCE BY THE CITY OF LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
Author
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**REVISIONS** 1

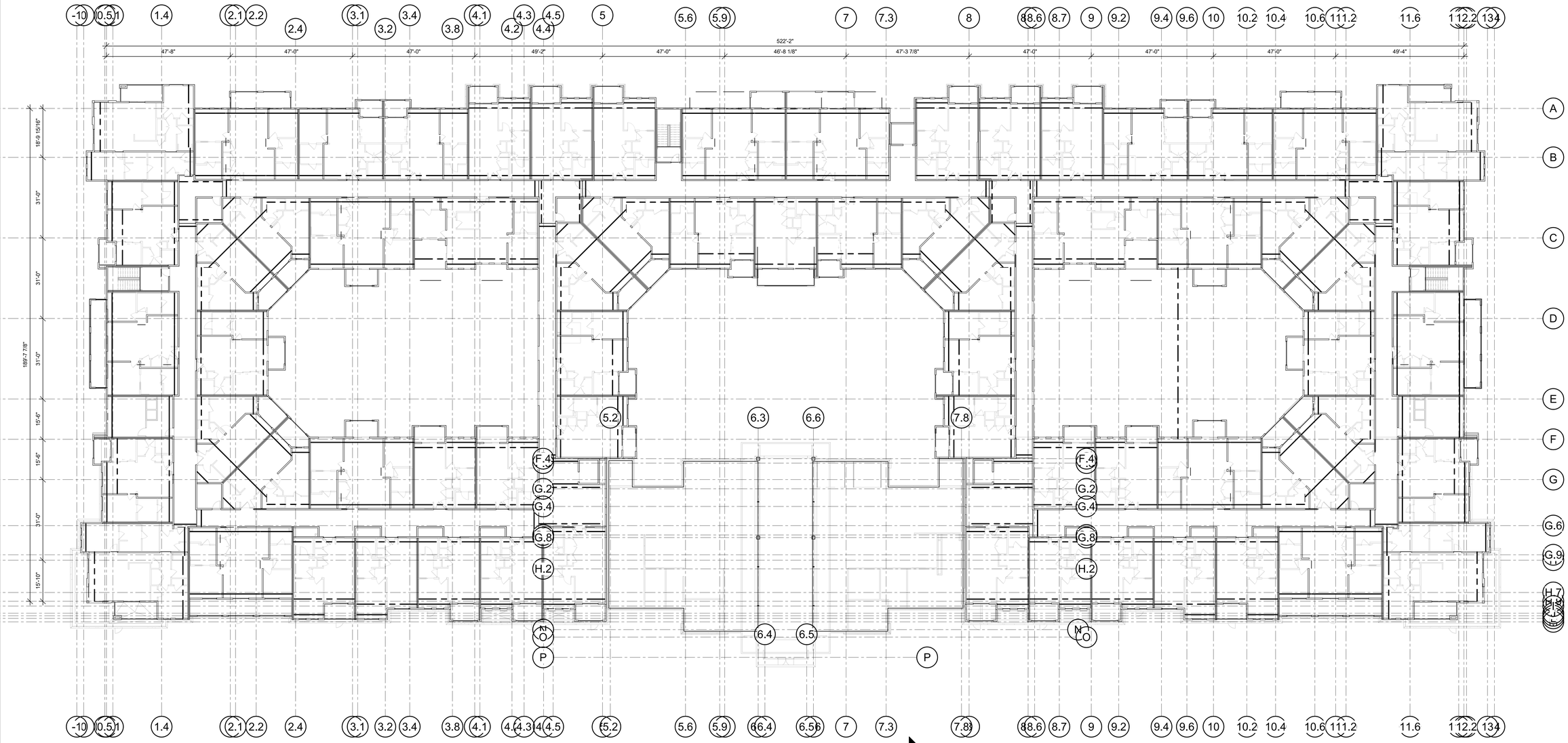
**DWG BY** Author

**TR.i PROJECT NO.** 18-046

**SHEET NO.**

# S113E-TR

**SECOND FLOOR TENSION ROD PLAN - AREA E**




1 THIRD FLOOR FRAMING PLAN
1/16" = 1'-0"

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
NOT FOR PERMIT ISSUANCE
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
JOHN W. BARNES
NUMBER
PE-2010026832
PROFESSIONAL ENGINEER
7-28-19

CLIENT
ARCHITECT
STRUCTURAL ENGINEER
CIVIL ENGINEER
MECHANICAL ENGINEER
PLUMBING ENGINEER
ELECTRICAL ENGINEER

CLIENT NAME
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ELECTRICAL

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REVISIONS

DWG BY Author

TR.i PROJECT NO. 18-046

SHEET NO.

S114

THIRD FLOOR FRAMING PLAN

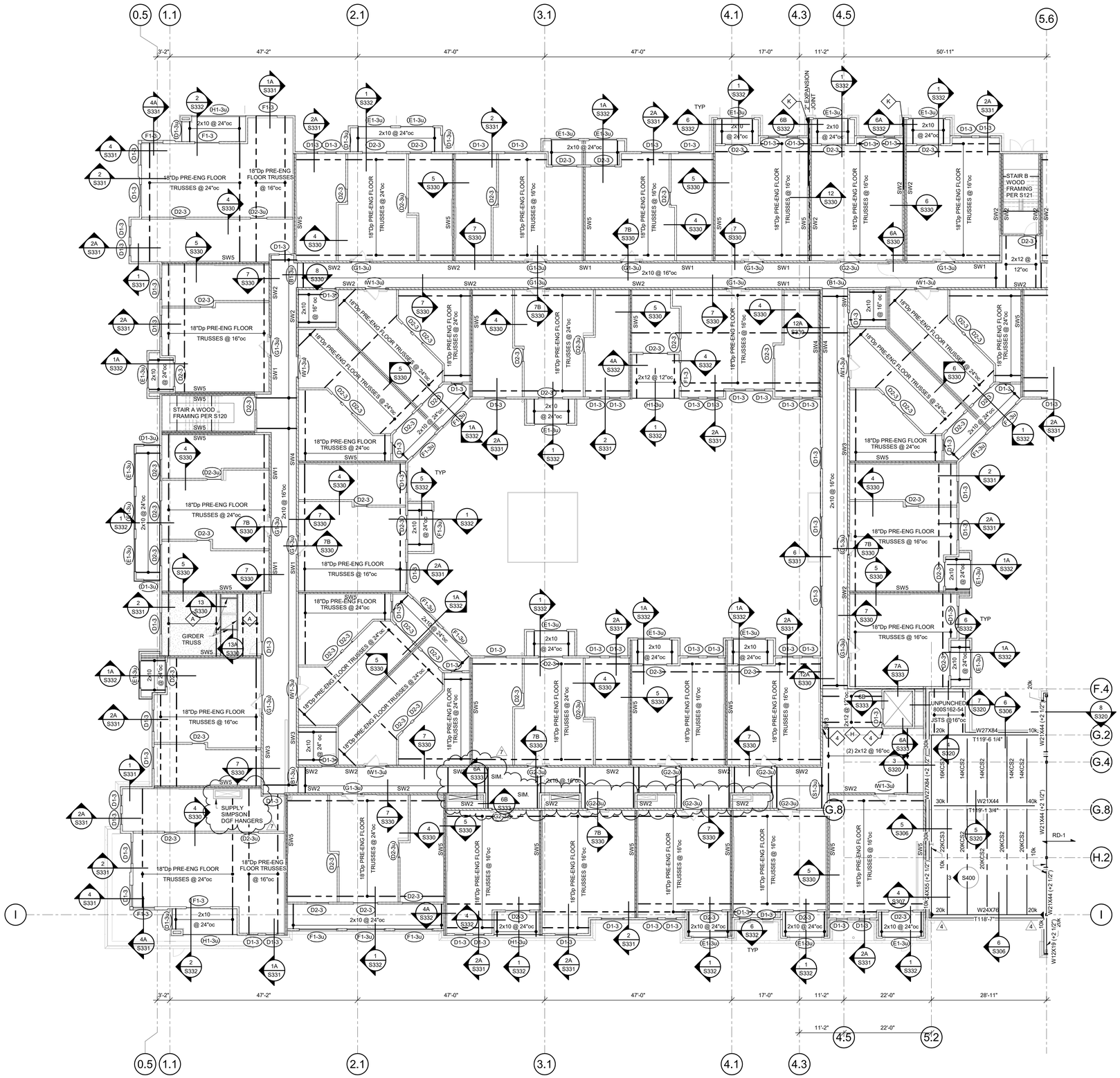
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
BRIAN W. PRYOR
NUMBER
PE-2010026832
PROFESSIONAL ENGINEER

CLIENT
ARCHITECT
STRUCTURAL ENGINEER
CIVIL ENGINEER
MECHANICAL ENGINEER
PLUMBING ENGINEER
ELECTRICAL ENGINEER

CLIENT NAME
TR.i Architects
STRUCTURAL
CIVIL
ENGINEER
PLUMBING
ELECTRICAL

# Summit at West Pryor




## 1 THIRD FLOOR FRAMING PLAN- AREA B

3/32" = 1'-0"

N

## WOOD FLOOR FRAMING

NOTES:

1. REFER TO GENERAL NOTES ON SHEET S001.
2. REFER TO STUD BEARING WALL SCHEDULE ON SHEET S003.
3. REFER TO HEADER/BEAM/JAMB SCHEDULE ON SHEET S003.
4. REFER TO SHEARWALL AND HOLDOWN SCHEDULE ON S004.
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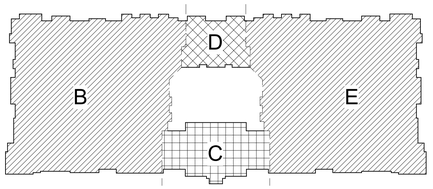


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**REVISIONS** 4

| | | |
|---|---|---|
| 4 | STRUCTURAL REVISION | 10.16.19 |
| 7 | REVISION 2 | 01.24.20 |

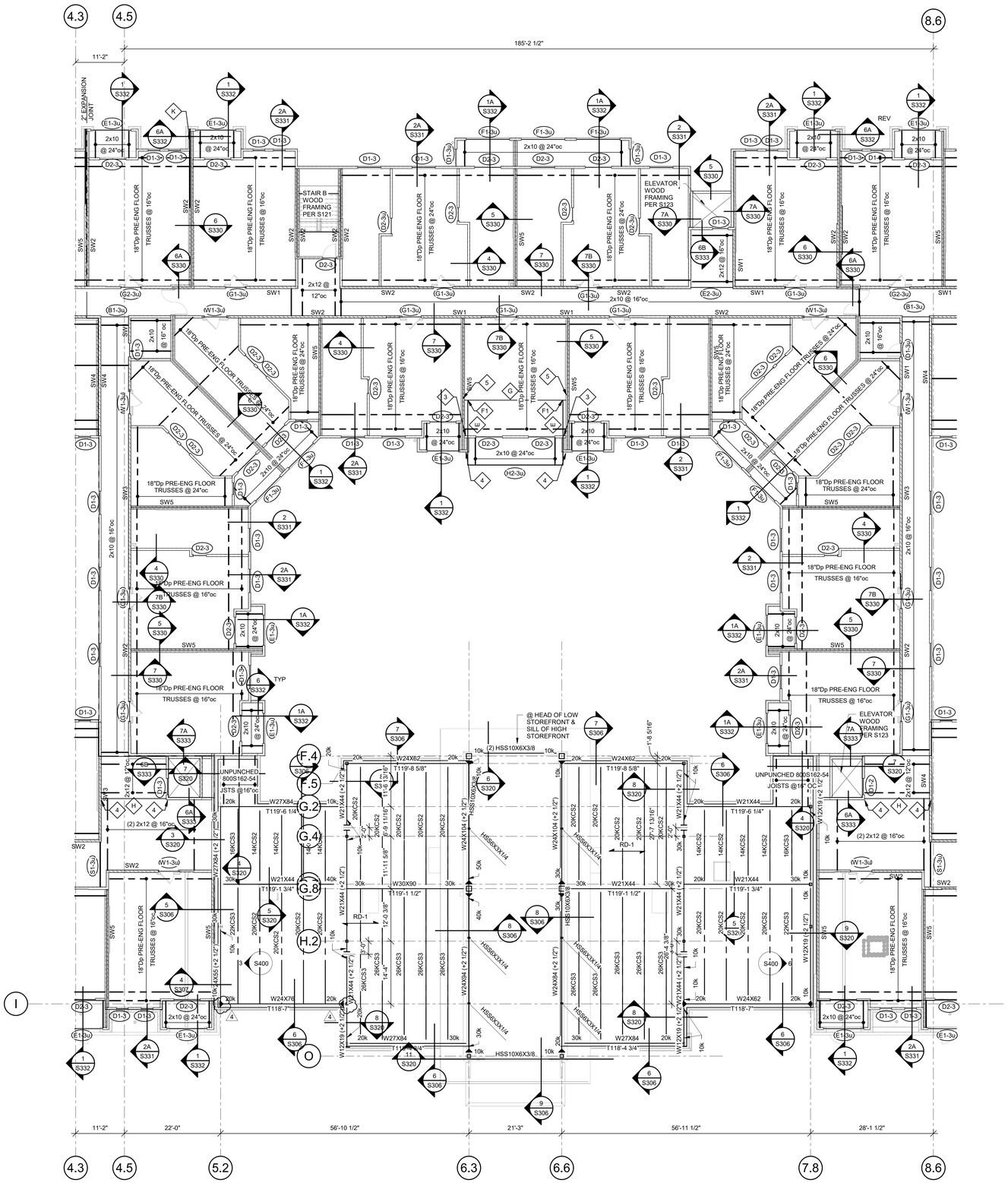
**DWG BY** Author

**TR.i PROJECT NO.** 18-046

**SHEET NO.**

# S114B

**THIRD FLOOR FRAMING PLAN- AREA A**



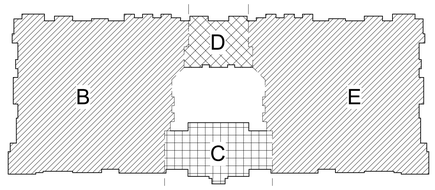

## 1 THIRD FLOOR FRAMING PLAN- AREA C/D

3/32" = 1'-0"

## WOOD FLOOR FRAMING

NOTES:

1. REFER TO GENERAL NOTES ON SHEET S001.
2. REFER TO STUD BEARING WALL SCHEDULE ON SHEET S003.
3. REFER TO HEADER/BEAM/JAMB SCHEDULE ON SHEET S003.
4. REFER TO SHEARWALL AND HOLDOWN SCHEDULE ON S004.
5. REFER TO STAIR FRAMING PLANS ON SHEET S120.
6. REFER TO S330 SERIES OF SHEETS FOR ADDITIONAL FLOOR FRAMING DETAILS NOT INDICATED HERE
7. PROVIDE TRUSS SPACE DIRECTLY ABOVE AND CENTERED OVER HVAC CLOSET; REFER TO ARCH AND MEP DRAWINGS FOR LOCATIONS.
8. REFER TO S001 FOR SLAB AND DECK SCHEDULE.
   A. WOOD FLOOR DECK TO BE DECK TYPE "FD-1" U.N.O.
   B. BALCONY FLOOR DECK TO BE DECK TYPE "CD-2" U.N.O.
9. ADD 1 1/4" SILL PL BETWEEN 2nd FLOOR DECK & BOTTOM PLATE @ ALL LOAD BEARING 4 STORY WOOD STUD WALLS.
10. PUBLIC AREA: DESIGN FOR LIVE LOAD PER GENERAL NOTE 2.B ON S001
    STORAGE AREA: DESIGN FOR LIVE LOAD PER GENERAL NOTE 2.B ON S001




RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
Author
PE-2010026831
40-16-19
PROFESSIONAL ENGINEER

| | |
|---|---|
| CLIENT | |
| ARCHITECT | |
| STRUCTURAL ENGINEER | |
| CIVIL ENGINEER | |
| MECHANICAL ENGINEER | |
| PLUMBING ENGINEER | |
| ELECTRICAL ENGINEER | |

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| CLIENT NAME | |
| TR.i Architects | |
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| CIVIL | |
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| ELECTRICAL | |

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TR.i Architects
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St. Louis, Missouri 63119
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**DATE:** 7.29.19 (SHELL PACKAGE)

**REVISIONS** 4

| | | |
|---|---|---|
| 4 | STRUCTURAL REVISION | 10.16.19 |

**DWG BY** Author

**TR.i PROJECT NO.** 18-046

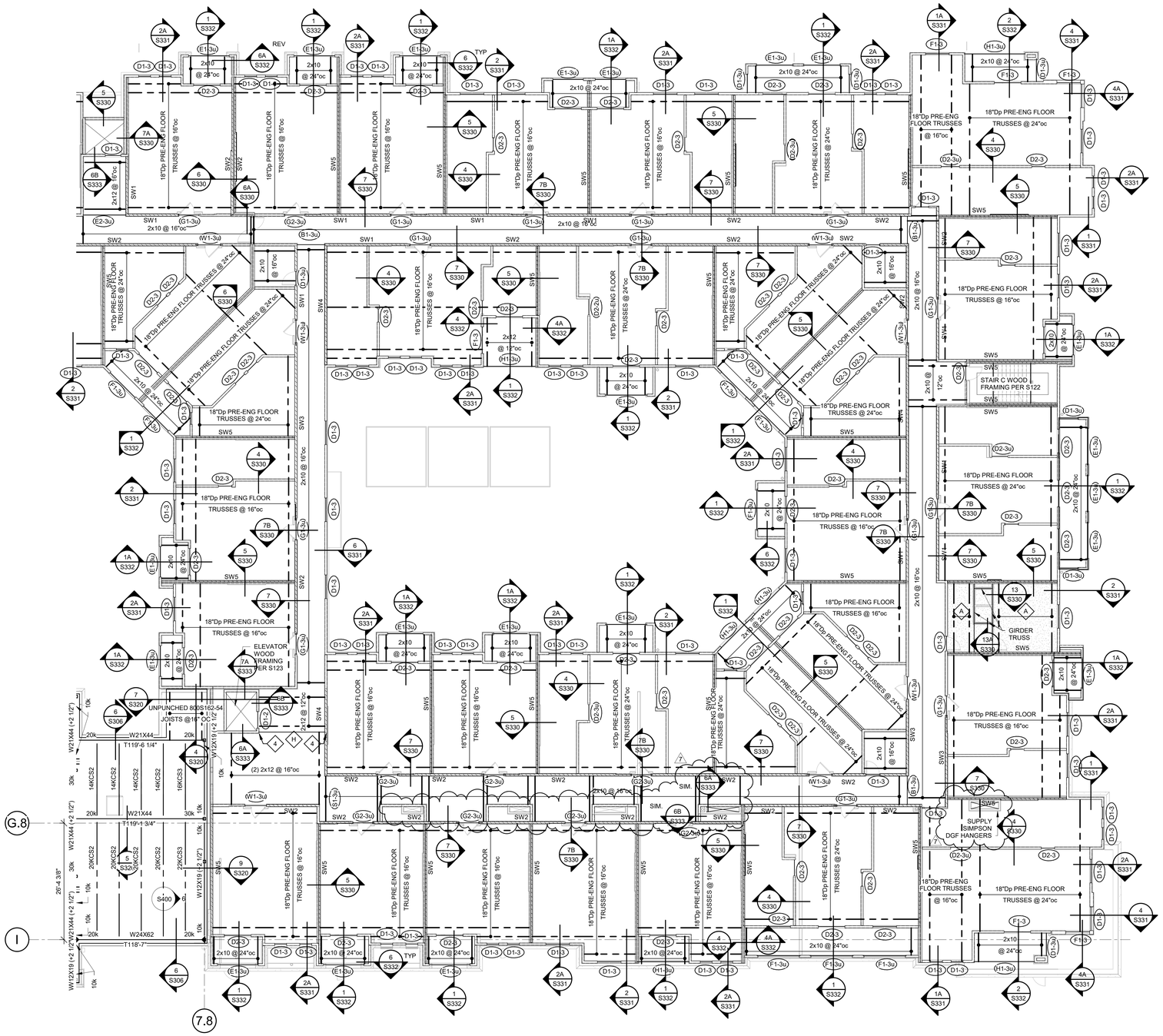
**SHEET NO.**

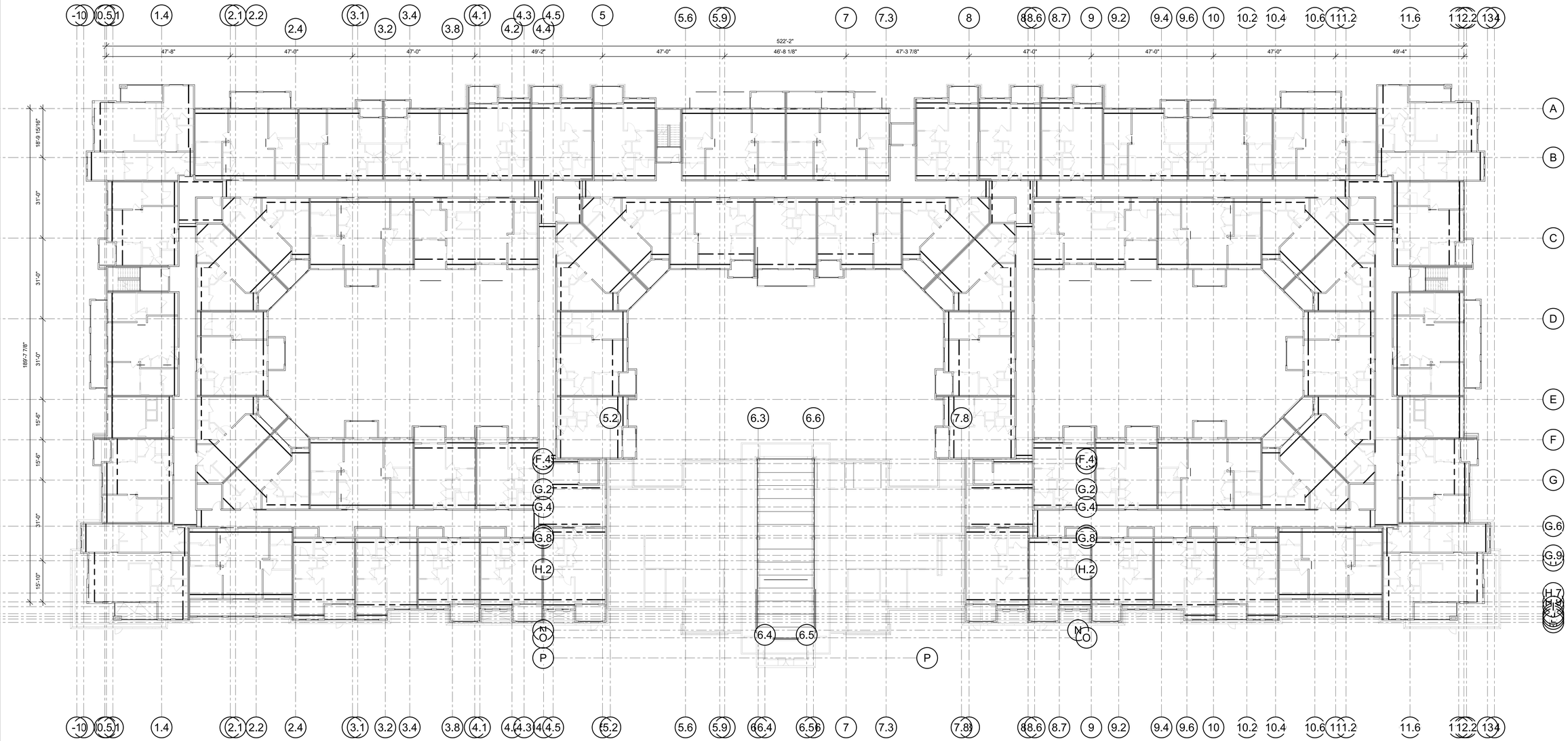
# S114C/D

**THIRD FLOOR FRAMING PLAN- AREA C/D**

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
BRYAN W. FISCHER
NUMBER
PE-2010026832
PROFESSIONAL ENGINEER


18"Dp PRE-ENG FLOOR TRUSSES @ 16"oc
18"Dp PRE-ENG FLOOR TRUSSES @ 24"oc
18"Dp PRE-ENG FLOOR TRUSSES @ 24"oc
18"Dp PRE-ENG FLOOR TRUSSES @ 24"oc
18"Dp PRE-ENG FLOOR TRUSSES @ 16




1 FOURTH FLOOR FRAMING PLAN
1/16" = 1'-0"

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
NOT FOR PERMIT PURPOSES
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
TONY L. WEBER
NUMBER
PE-2010026832
PROFESSIONAL ENGINEER
7-28-19

CLIENT
ARCHITECT
STRUCTURAL ENGINEER
CIVIL ENGINEER
MECHANICAL ENGINEER
PLUMBING ENGINEER
ELECTRICAL ENGINEER

CLIENT NAME
TR.i Architects
STRUCTURAL
CIVIL
ENGINEER
PLUMBING
ELECTRICAL

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REVISIONS

DWG BY Author

TR.i PROJECT NO. 18-046

SHEET NO.

S115

FOURTH FLOOR FRAMING PLAN

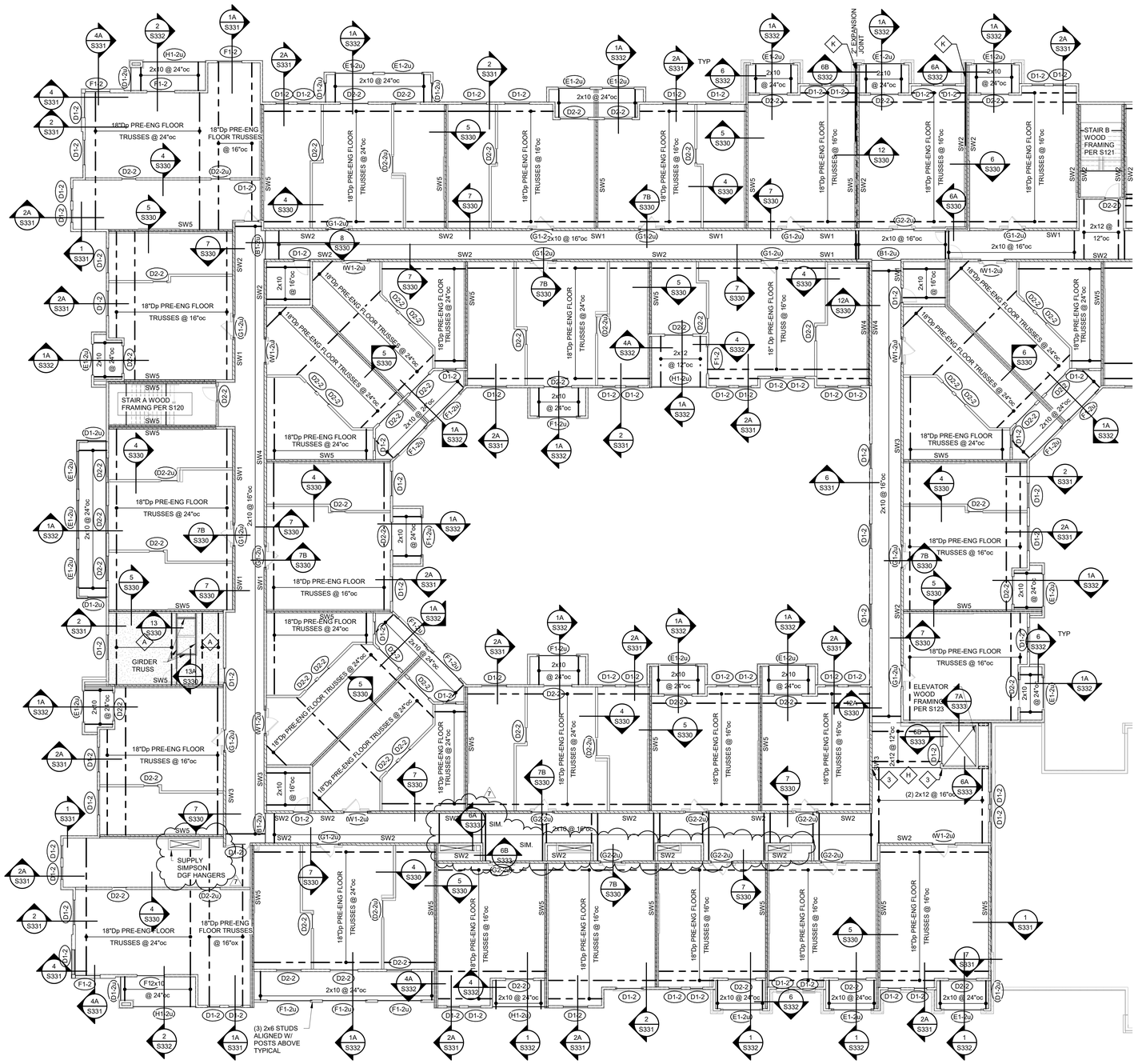
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
JASON W. GRAFF
NUMBER
PE-2010026832
PROFESSIONAL ENGINEER

CLIENT
ARCHITECT
STRUCTURAL ENGINEER
CIVIL ENGINEER
MECHANICAL ENGINEER
PLUMBING ENGINEER
ELECTRICAL ENGINEER

CLIENT NAME
TR.i Architects
STRUCTURAL
CIVIL
ENGINEER
PLUMBING
ELECTRICAL

# Summit at West Pryor




## 1 FOURTH FLOOR FRAMING PLAN- AREA B

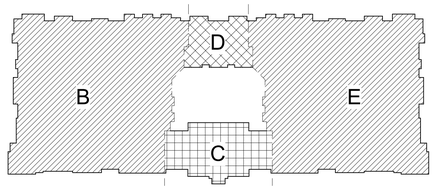
3/32" = 1'-0"

N

## WOOD FLOOR FRAMING

NOTES:

1. REFER TO GENERAL NOTES ON SHEET S001.
2. REFER TO STUD BEARING WALL SCHEDULE ON SHEET S003.
3. REFER TO HEADER/BEAM/JAMB SCHEDULE ON SHEET S003.
4. REFER TO SHEARWALL AND HOLDOWN SCHEDULE ON S004.
5. REFER TO STAIR FRAMING PLANS ON SHEET S120.
6. REFER TO S330 SERIES OF SHEETS FOR ADDITIONAL FLOOR FRAMING DETAILS NOT INDICATED HERE
7. PROVIDE TRUSS SPACE DIRECTLY ABOVE AND CENTERED OVER HVAC CLOSET; REFER TO ARCH AND MEP DRAWINGS FOR LOCATIONS.
8. REFER TO S001 FOR SLAB AND DECK SCHEDULE:
   A. WOOD FLOOR DECK TO BE DECK TYPE "FD-1" U.N.O.
   B. BALCONY FLOOR DECK TO BE DECK TYPE "CD-2" U.N.O.
9. ADD 1 1/4" SILL PL BETWEEN 2nd FLOOR DECK & BOTTOM PLATE @ ALL LOAD BEARING 4 STORY WOOD STUD WALLS.
10. PUBLIC AREA: DESIGN FOR LIVE LOAD PER GENERAL NOTE 2.B ON S001
    STORAGE AREA: DESIGN FOR LIVE LOAD PER GENERAL NOTE 2.B ON S001

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REVISIONS 2

| | | |
|---|---|---|
| 7 | REVISION 2 | 01.24.20 |

DWG BY Author

TR.i PROJECT NO. 18-046

SHEET NO.

S115B

FOURTH FLOOR FRAMING PLAN- AREA B

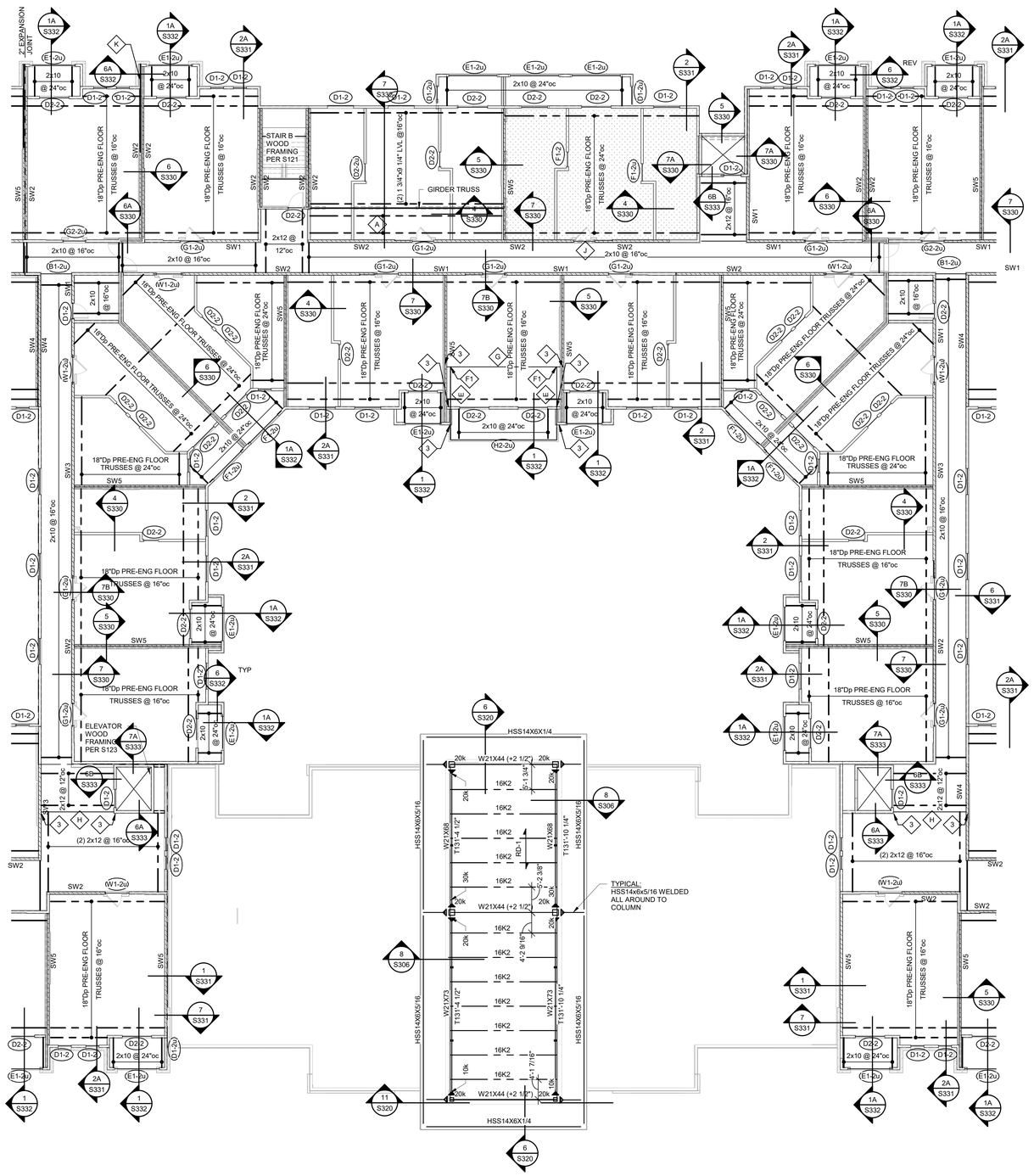
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
ACCEPTANCE BY CITY OF LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
DAVID A. WARNER
NUMBER
PE-2010026832
PROFESSIONAL ENGINEER
7-28-19

CLIENT
ARCHITECT
STRUCTURAL ENGINEER
CIVIL ENGINEER
MECHANICAL ENGINEER
PLUMBING ENGINEER
ELECTRICAL ENGINEER

CLIENT NAME
TR.i Architects
STRUCTURAL
CIVIL
ENGINEER
PLUMBING
ELECTRICAL

# Summit at Westpryor



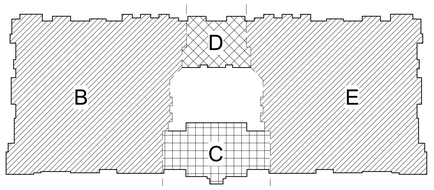

## 1 FOURTH FLOOR FRAMING PLAN- AREA C/D

3/32" = 1'-0"

## WOOD FLOOR FRAMING

NOTES:

1. REFER TO GENERAL NOTES ON SHEET S001.
2. REFER TO STUD BEARING WALL SCHEDULE ON SHEET S003.
3. REFER TO HEADER/BEAM/JAMB SCHEDULE ON SHEET S003.
4. REFER TO SHEARWALL AND HOLDOWN SCHEDULE ON S004.
5. REFER TO STAIR FRAMING PLANS ON SHEET S120.
6. REFER TO S330 SERIES OF SHEETS FOR ADDITIONAL FLOOR FRAMING DETAILS NOT INDICATED HERE
7. PROVIDE TRUSS SPACE DIRECTLY ABOVE AND CENTERED OVER HVAC CLOSET; REFER TO ARCH AND MEP DRAWINGS FOR LOCATIONS.
8. REFER TO S001 FOR SLAB AND DECK SCHEDULE.
   A. WOOD FLOOR DECK TO BE DECK TYPE "FD-1" U.N.O.
   B. BALCONY FLOOR DECK TO BE DECK TYPE "CD-2" U.N.O.
9. ADD 1 1/4" SILL PL BETWEEN 2nd FLOOR DECK & BOTTOM PLATE @ ALL LOAD BEARING 4 STORY WOOD STUD WALLS.
10. PUBLIC AREA: DESIGN FOR LIVE LOAD PER GENERAL NOTE 2.B ON S001
    STORAGE AREA: DESIGN FOR LIVE LOAD PER GENERAL NOTE 2.B ON S001

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REVISIONS

DWG BY Author

TR.i PROJECT NO. 18-046

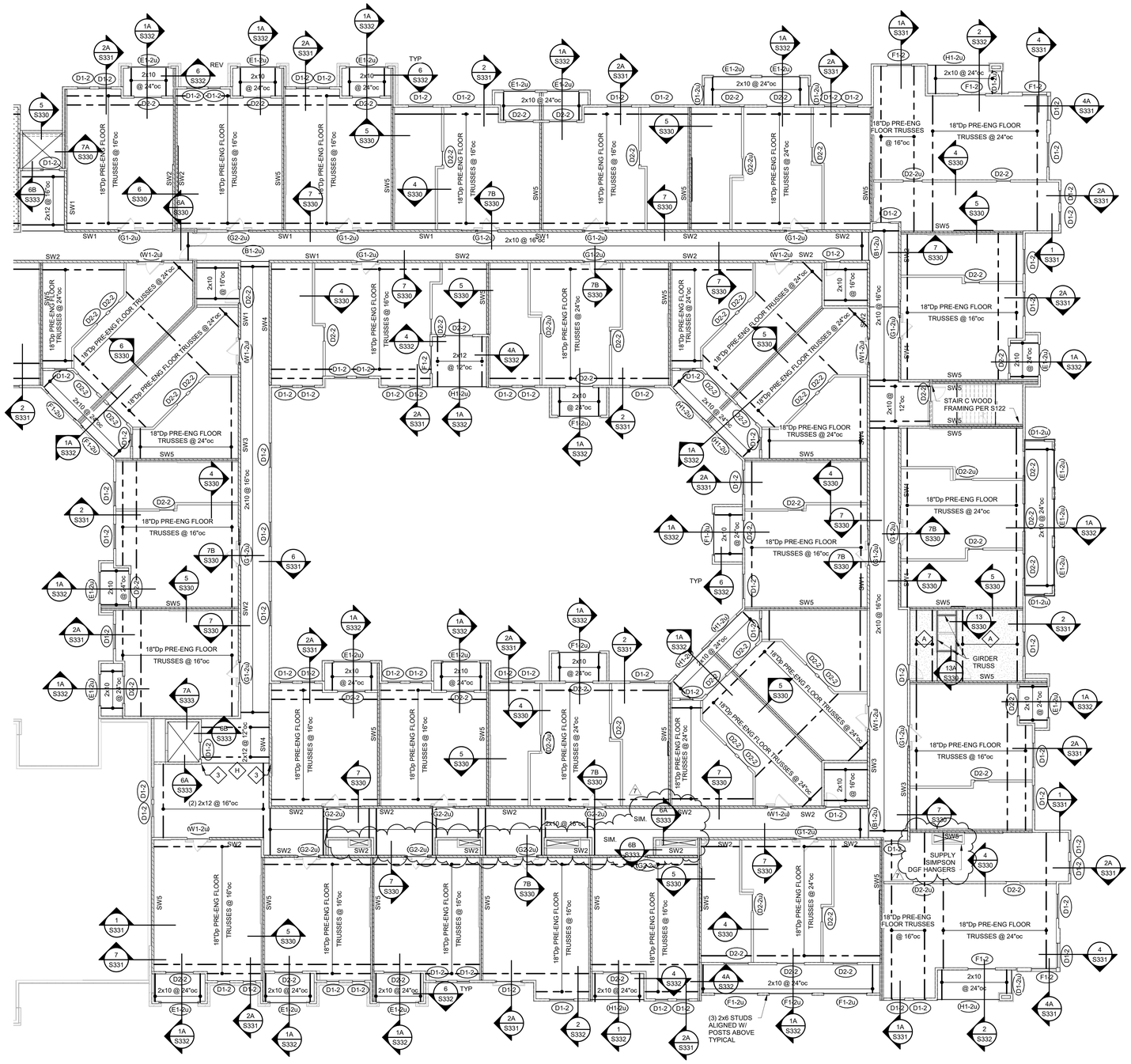
SHEET NO.

S115C/D

FOURTH FLOOR FRAMING PLAN- AREA C/D

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
BRYAN W. PAYNE
NUMBER
PE-2010026832
PROFESSIONAL ENGINEER




## 1 FOURTH FLOOR FRAMING PLAN- AREA E

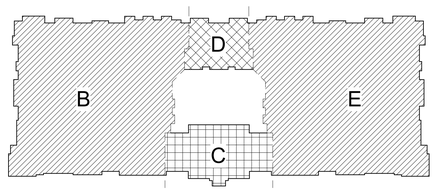
3/32" = 1'-0"

N

## WOOD FLOOR FRAMING

NOTES:

1. REFER TO GENERAL NOTES ON SHEET S001.
2. REFER TO STUD BEARING WALL SCHEDULE ON SHEET S003.
3. REFER TO HEADER/BEAM/JAMB SCHEDULE ON SHEET S003.
4. REFER TO SHEARWALL AND HOLDOWN SCHEDULE ON S004.
5. REFER TO STAIR FRAMING PLANS ON SHEET S120.
6. REFER TO S330 SERIES OF SHEETS FOR ADDITIONAL FLOOR FRAMING DETAILS NOT INDICATED HERE
7. PROVIDE TRUSS SPACE DIRECTLY ABOVE AND CENTERED OVER HVAC CLOSET; REFER TO ARCH AND MEP DRAWINGS FOR LOCATIONS.
8. REFER TO S001 FOR SLAB AND DECK SCHEDULE.
   A. WOOD FLOOR DECK TO BE DECK TYPE "FD-1" U.N.O.
   B. BALCONY FLOOR DECK TO BE DECK TYPE "CD-2" U.N.O.
9. ADD 1 1/4" SILL PL BETWEEN 2nd FLOOR DECK & BOTTOM PLATE @ ALL LOAD BEARING 4 STORY WOOD STUD WALLS.
10. PUBLIC AREA: DESIGN FOR LIVE LOAD PER GENERAL NOTE 2.B ON S001
    STORAGE AREA: DESIGN FOR LIVE LOAD PER GENERAL NOTE 2.B ON S001

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|---|---|
| CLIENT | |
| ARCHITECT | |
| STRUCTURAL ENGINEER | |
| CIVIL ENGINEER | |
| MECHANICAL ENGINEER | |
| PLUMBING ENGINEER | |
| ELECTRICAL ENGINEER | |

| | |
|---|---|
| CLIENT NAME | |
| TR.i Architects | |
| STRUCTURAL | |
| CIVIL | |
| ENGINEER | |
| PLUMBING | |
| ELECTRICAL | |

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**REVISIONS** 2

| | | |
|---|---|---|
| 7 | REVISION 2 | 01.24.20 |

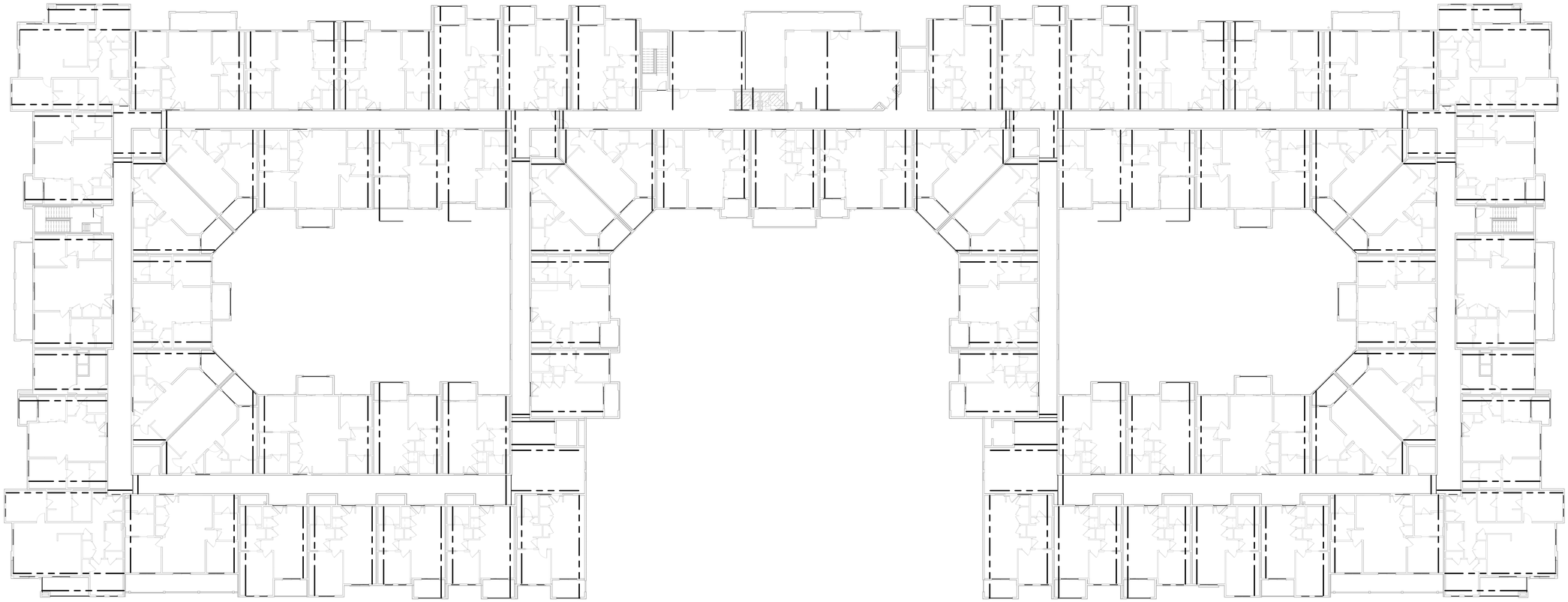
**DWG BY** Author

**TR.i PROJECT NO.** 18-046

**SHEET NO.**

S115E

**FOURTH FLOOR FRAMING PLAN- AREA E**



1 **ROOF FRAMING PLAN**
1/16" = 1'-0"

N

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
ACCEPTANCE BY CITY OF LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
BARRY A. WOLFE
Architects
PE-2010026832
7-28-19
PROFESSIONAL ENGINEER

CLIENT
ARCHITECT
STRUCTURAL ENGINEER
CIVIL ENGINEER
MECHANICAL ENGINEER
PLUMBING ENGINEER
ELECTRICAL ENGINEER

CLIENT NAME
TR.i Architects
STRUCTURAL
CIVIL
ENGINEER
PLUMBING
ELECTRICAL

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Architects of the Possible®

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St. Louis, Missouri 63119
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**DATE:** 7.29.19 (SHELL PACKAGE)

**REVISIONS** 1

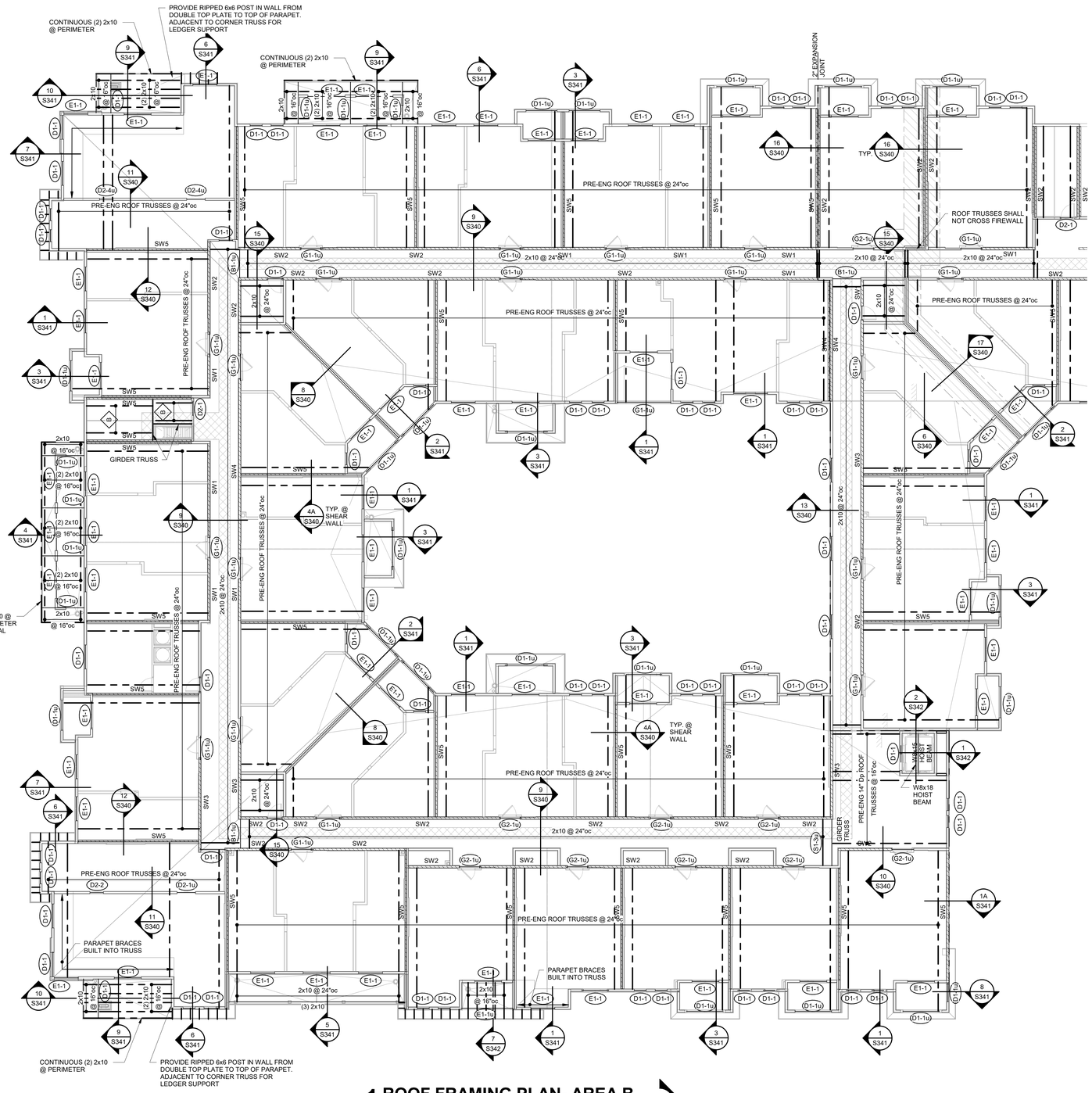
**DWG BY** Author

**TR.i PROJECT NO.** 18-046

**SHEET NO.**

S116

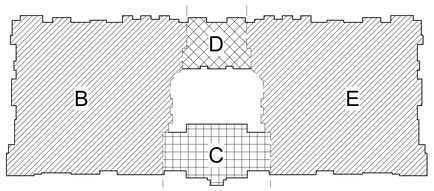
**ROOF FRAMING PLAN**




1 **ROOF FRAMING PLAN- AREA B**
3/32" = 1'-0"

## WOOD ROOF FRAMING

NOTES:
1. REFER TO GENERAL NOTES ON SHEET S001.
2. REFER TO STUD BEARING WALL SCHEDULE ON SHEET S003.
3. REFER TO HEADER/BEAM/JAMB SCHEDULE ON SHEET S003.
4. REFER TO SHEARWALL AND HOLDOWN SCHEDULE ON S004.
5. REFER TO STAIR FRAMING PLANS ON SHEET S120.
6. REFER TO S340 SERIES OF SHEETS FOR ADDITIONAL FLOOR FRAMING DETAILS NOT INDICATED HERE
7. PROVIDE (3) STUDS MINIMUM ALIGNED UNDER EACH END OF EACH GIRDER TRUSS. PROVIDE SQUASH BLOCKS AND JAMBS AT EA. FLOOR BELOW DOWN TO FOUNDATION. (TOTAL STUDS TO MATCH NUMBER OF GIRDER TRUSS PLIES (3 MIN.) REFER TO DETAIL 8/S340.
8. PROVIDE UNIFORM UPLIFT SCREWS @ UPPER FLOOR PER DETAILS 3, 3A, 3B, 4 AND 5 ON S005.
9. PRE-ENG TRUSSES TO HAVE A MINIMUM DEPTH OF 24". SLOPE TOP CHORD PER ARCHITECTUAL DRAWINGS.
10. REFER TO S001 FOR SLAB AND DECK SCHEDULE.
    A. WOOD ROOF DECK TO BE DECK TYPE "RD-1" U.N.O.




RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
BUILDING COMMISSIONER
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
CLINT A. BARNES
PE-2010026832
7-28-19
PROFESSIONAL ENGINEER

| | |
|---|---|
| CLIENT | |
| ARCHITECT | |
| STRUCTURAL ENGINEER | |
| CIVIL ENGINEER | |
| MECHANICAL ENGINEER | |
| PLUMBING ENGINEER | |
| ELECTRICAL ENGINEER | |

| | |
|---|---|
| CLIENT NAME | |
| TR.i Architects | |
| STRUCTURAL | |
| CIVIL | |
| ENGINEER | |
| PLUMBING | |
| ELECTRICAL | |

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**REVISIONS** 4

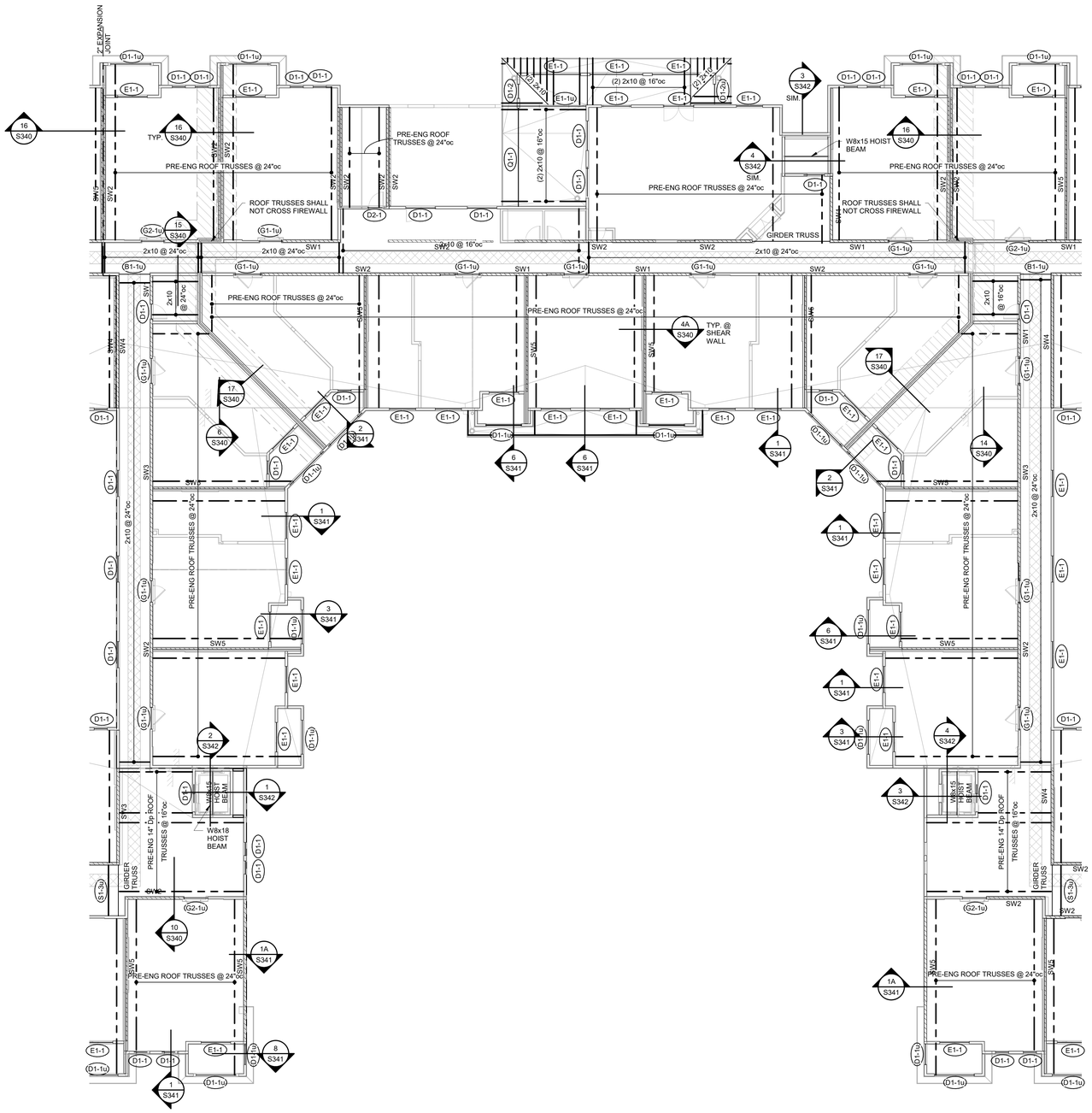
**DWG BY** Author

**TR.i PROJECT NO.** 18-046

**SHEET NO.**

S116B

**ROOF FRAMING PLAN- AREA B**




## 1 ROOF FRAMING PLAN- C/D

3/32" = 1'-0"

## WOOD ROOF FRAMING

NOTES:

1. REFER TO GENERAL NOTES ON SHEET S001.
2. REFER TO STUD BEARING WALL SCHEDULE ON SHEET S003.
3. REFER TO HEADER/BEAM/JAMB SCHEDULE ON SHEET S003.
4. REFER TO SHEARWALL AND HOLDOWN SCHEDULE ON S004.
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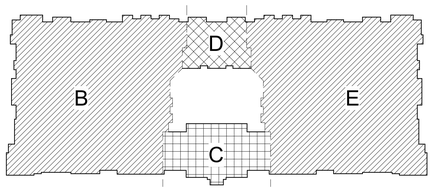
6. REFER TO S340 SERIES OF SHEETS FOR ADDITIONAL FLOOR FRAMING DETAILS NOT INDICATED HERE
7. PROVIDE (3) STUDS MINIMUM ALIGNED UNDER EACH END OF EACH GIRDER TRUSS. PROVIDE SQUASH BLOCKS AND JAMBS AT EA. FLOOR BELOW DOWN TO FOUNDATION. (TOTAL STUDS TO MATCH NUMBER OF GIRDER TRUSS PLIES (3 MIN.) REFER TO DETAIL 8/S340.
8. PROVIDE UNIFORM UPLIFT SCREWS @ UPPER FLOOR PER DETAILS 3, 3A, 3B, 4 AND 5 ON S005.
9. PRE-ENG TRUSSES TO HAVE A MINIMUM DEPTH OF 24". SLOPE TOP CHORD PER ARCHITECTUAL DRAWINGS.
10. REFER TO S001 FOR SLAB AND DECK SCHEDULE.
    A. WOOD ROOF DECK TO BE DECK TYPE "RD-1" U.N.O.




RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
ACCEPTANCE BY CITY OF LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
CHRISTOPHER J. BARNHART
NUMBER
PE-2010026832
PROFESSIONAL ENGINEER
7-28-19

CLIENT
ARCHITECT
STRUCTURAL ENGINEER
CIVIL ENGINEER
MECHANICAL ENGINEER
PLUMBING ENGINEER
ELECTRICAL ENGINEER

CLIENT NAME
TR.i Architects
STRUCTURAL
CIVIL
ENGINEER
PLUMBING
ELECTRICAL

# Summit at West Pryor

TR.i Architects of the Possible

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9812 Manchester Road
St. Louis, Missouri 63119
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F: 314-395-9751
www.trarchitects.com

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**DATE:** 7.29.19 (SHELL PACKAGE)

**REVISIONS** 2

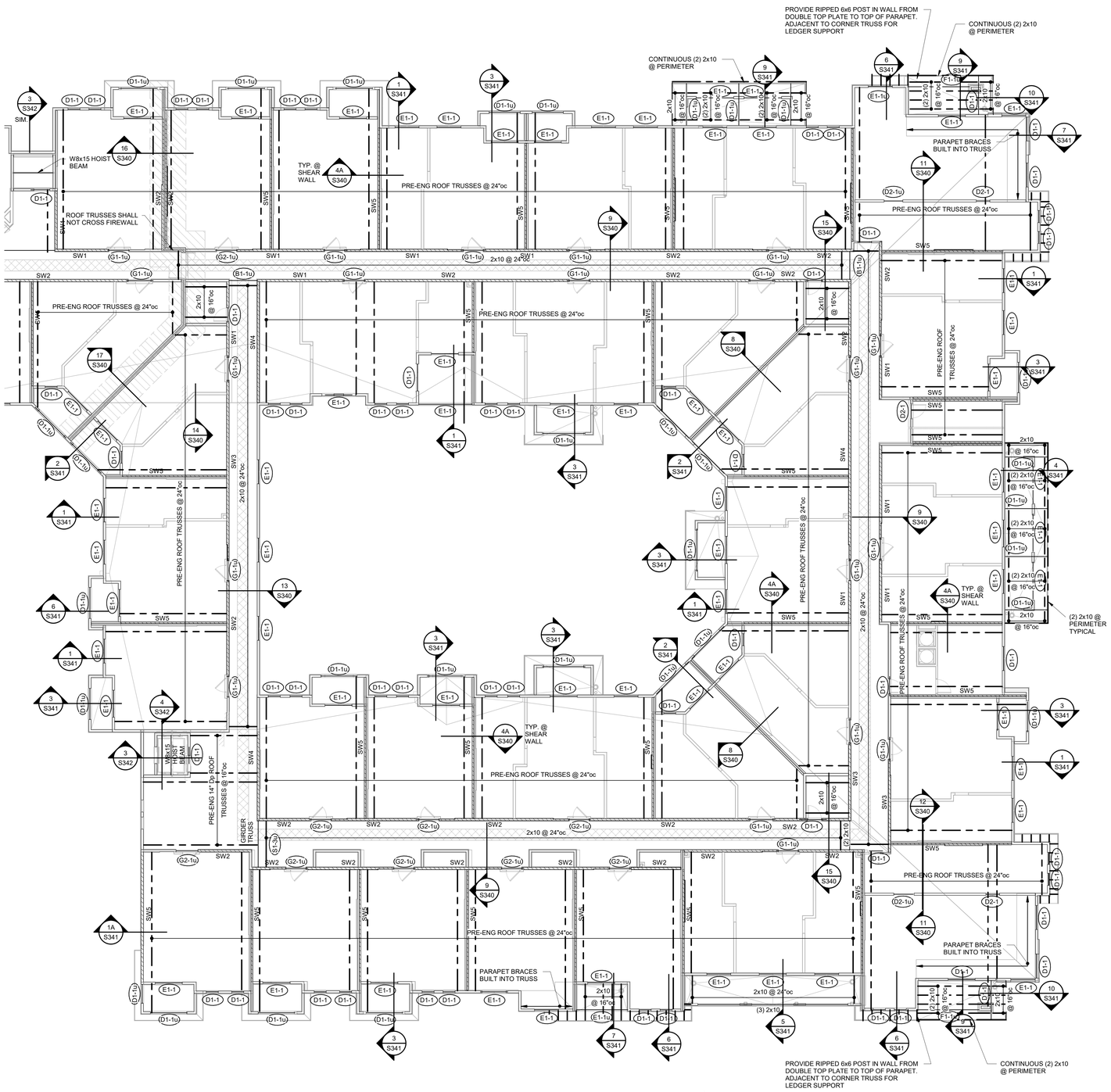
**DWG BY** Author

**TR.i PROJECT NO.** 18-046

**SHEET NO.**

S116C/D

**ROOF FRAMING PLAN- AREA C/D**




## 1 ROOF FRAMING PLAN- AREA E

3/32" = 1'-0"

N

## WOOD ROOF FRAMING

NOTES:

1. REFER TO GENERAL NOTES ON SHEET S001.
2. REFER TO STUD BEARING WALL SCHEDULE ON SHEET S003.
3. REFER TO HEADER/BEAM/JAMB SCHEDULE ON SHEET S003.
4. REFER TO SHEARWALL AND HOLDOWN SCHEDULE ON S004.
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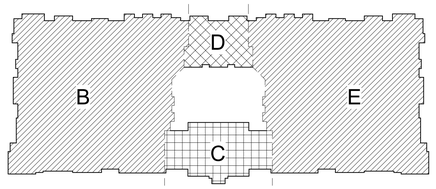
7. PROVIDE (3) STUDS MINIMUM ALIGNED UNDER EACH END OF EACH GIRDER TRUSS. PROVIDE SQUASH BLOCKS AND JAMBS AT EA. FLOOR BELOW DOWN TO FOUNDATION. (TOTAL STUDS TO MATCH NUMBER OF GIRDER TRUSS PLIES (3 MIN.) REFER TO DETAIL S/S340.
8. PROVIDE UNIFORM UPLIFT SCREWS @ UPPER FLOOR PER DETAILS 3, 3A, 3B, 4 AND 5 ON S005.
9. PRE-ENG TRUSSES TO HAVE A MINIMUM DEPTH OF 24". SLOPE TOP CHORD PER ARCHITECTUAL DRAWINGS.
10. REFER TO S001 FOR SLAB AND DECK SCHEDULE.
    A. WOOD ROOF DECK TO BE DECK TYPE "RD-1" U.N.O.




RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
BUILDING DEPARTMENT
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
CHRISTOPHER A. BARNHART
NUMBER
PE-2010026832
7-28-19
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MECHANICAL ENGINEER
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ELECTRICAL ENGINEER

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**REVISIONS** A

**DWG BY** Author

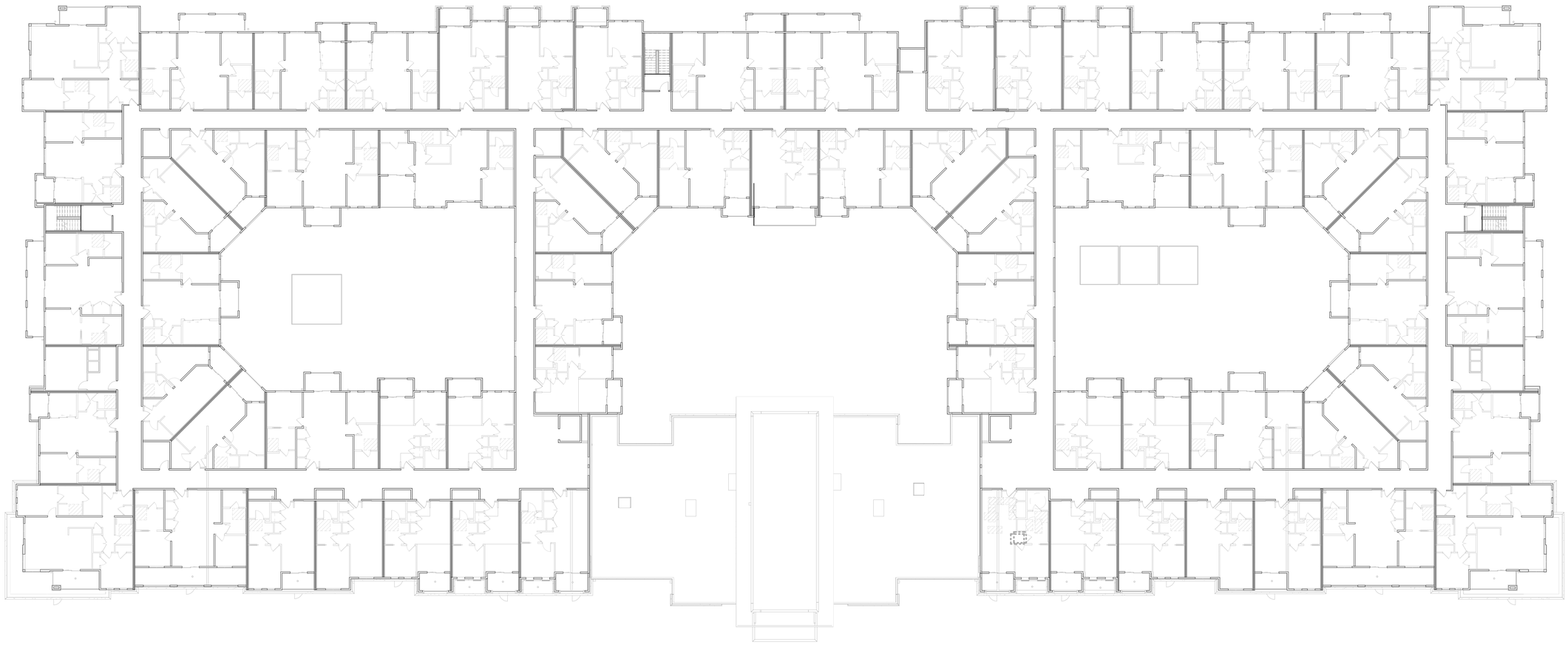
**TR.i PROJECT NO.** 18-046

**SHEET NO.**

S116E

**ROOF FRAMING PLAN- AREA E**

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
ADOPTED BY THE CITY OF LEE'S SUMMIT, MISSOURI
04/13/2020



1 SHEARWALL AND BEARING WALL TYPE PLAN
1/16" = 1'-0"

N

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Chris A. Yarbrough
BARNES & ASSOCIATES
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SHEET NO.

S117

SHEARWALL AND BEARING WALL TYPE PLAN

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AS NOTED ON PLANS REVIEW
ACCEPTANCE BY THE CITY OF LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
BARRY A. WARNER
Architect
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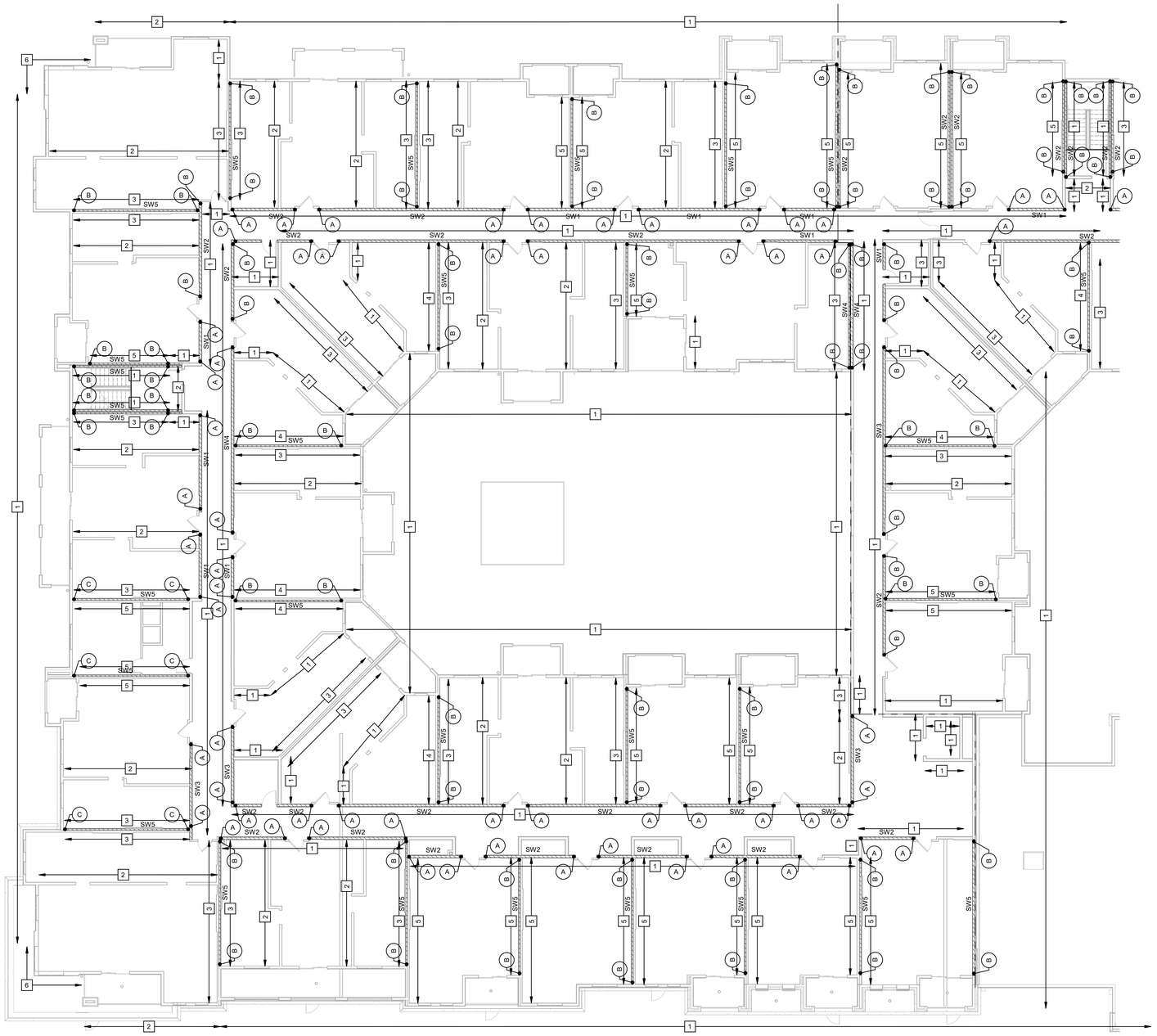
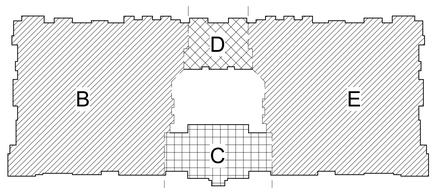


## 1 SHEARWALL AND BEARING WALL TYPE PLAN - B

3/32" = 1'-0"

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**SHEET NO.**

S117B

**SHEARWALL AND BEARING WALL TYPE PLAN - B**

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
ACCEPTANCE BY THE CITY OF LEE'S SUMMIT, MISSOURI
04/13/2020

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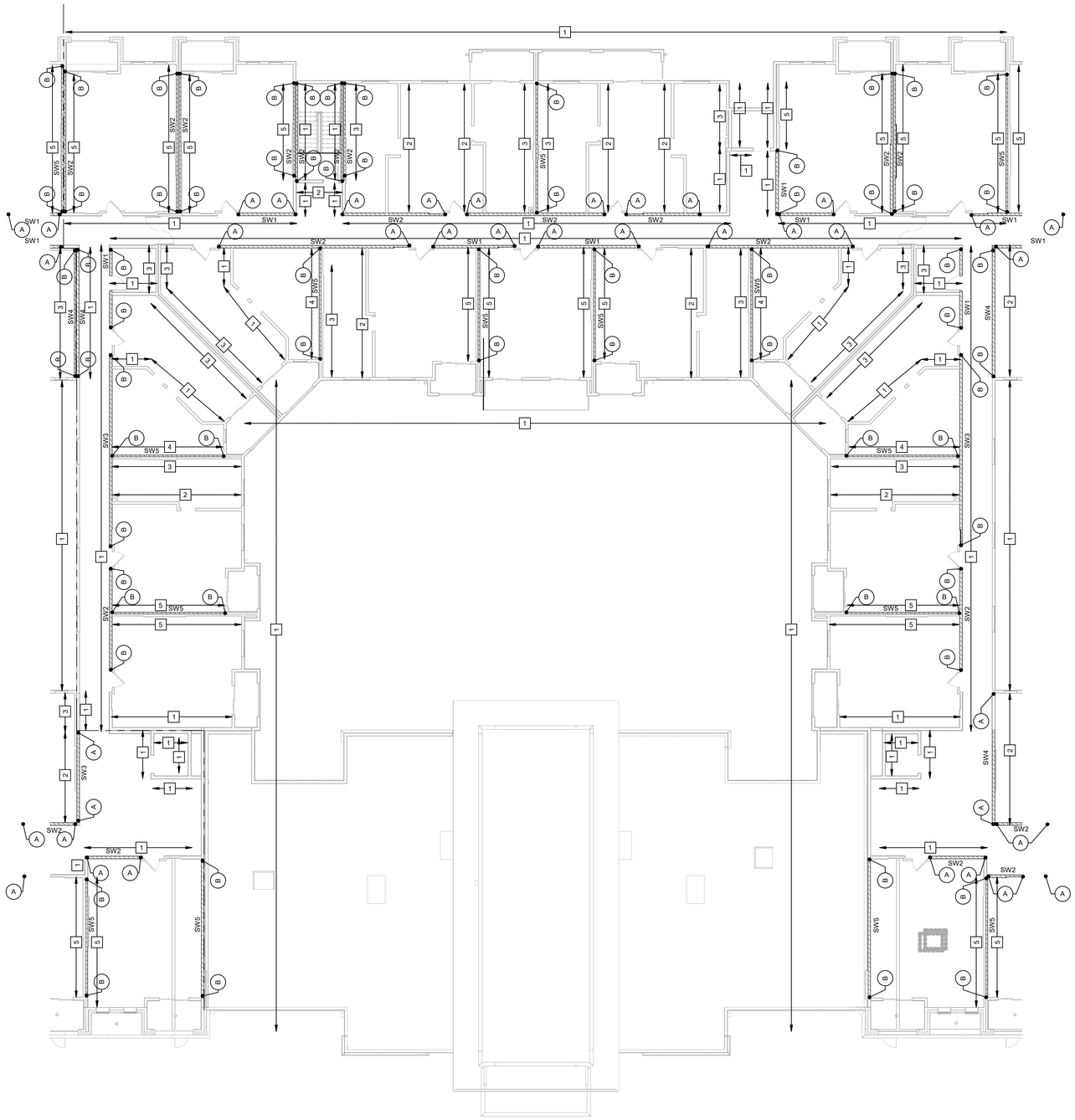
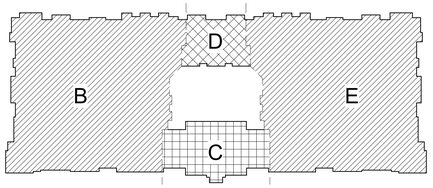



## 1 SHEARWALL AND BEARING WALL TYPE PLAN - C/D

3/32" = 1'-0"

N

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SHEET NO.

S117C/D

SHEARWALL AND BEARING WALL TYPE PLAN - C/D

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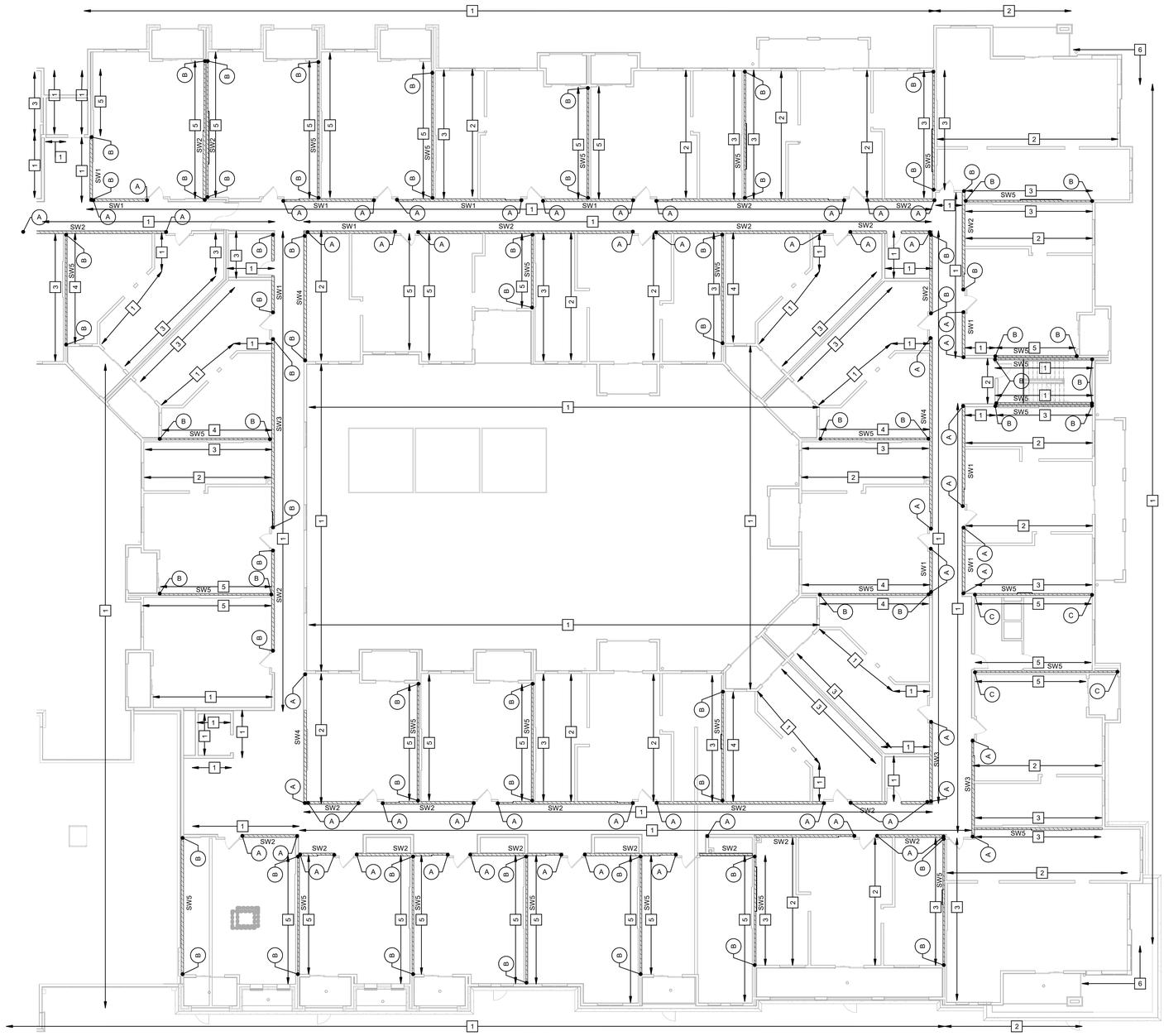
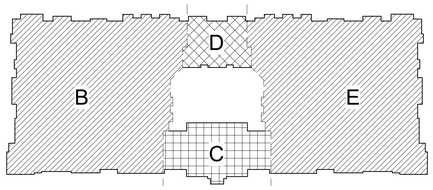
ACCEPTANCE BY CITY OF LEE'S SUMMIT, MISSOURI
04/13/2020



1 SHEARWALL AND BEARING WALL TYPE PLAN - E
3/32" = 1'-0"

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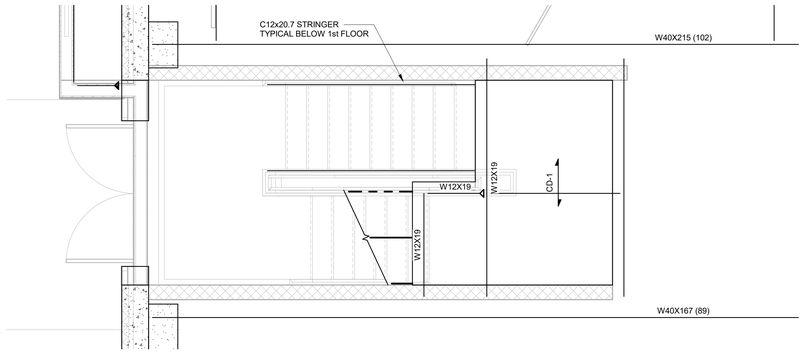
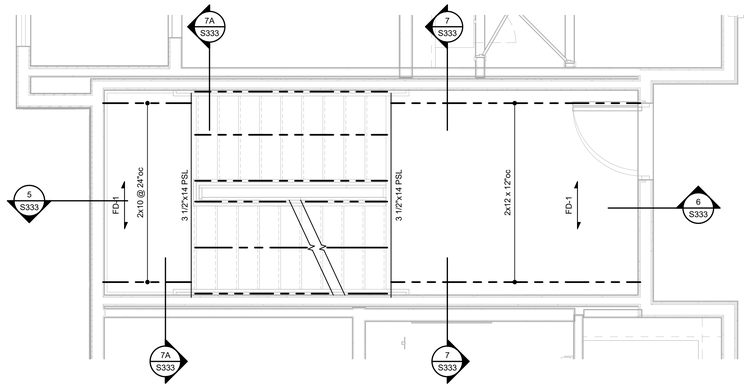
SHEET NO.

S117E

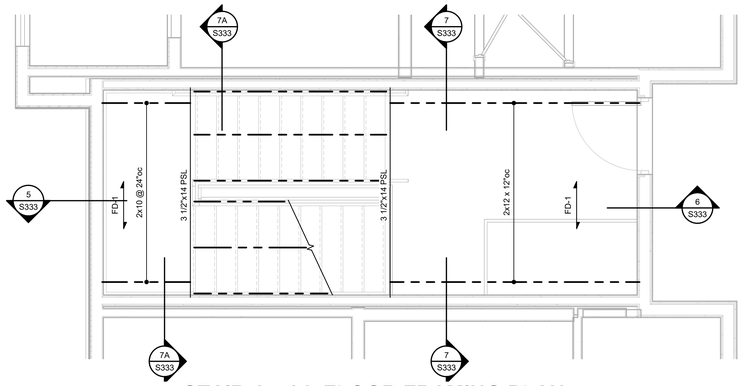
SHEARWALL AND BEARING WALL TYPE PLAN - E




## 1 STAIR A - 1st FLOOR FRAMING PLAN
3/8" = 1'-0"




## 2 STAIR A - 2nd/3rd FLOOR FRAMING PLAN
3/8" = 1'-0"




## 3 STAIR A - 4th FLOOR FRAMING PLAN
3/8" = 1'-0"

| STAIR BEAM JAMB SCHEDULE | | | | |
|---|---|---|---|---|
| BEAM SIZE | JAMB TYPE | | | |
| | LEVEL 1 | LEVEL 2 | LEVEL 3 | LEVEL 4 |
| 3 1/2" x 14" PSL | (5) 2x6 | (4) 2x6 | (3) 2x6 | |

NOTES:
1. MID-HEIGHT BEAMS TO HAVE (1) KING STUD MINIMUM EACH SIDE OF BEAM

## WOOD STAIR FRAMING

NOTES:
1. REFER TO GENERAL NOTES ON SHEET S001.
2. REFER TO STUD BEARING WALL SCHEDULE ON SHEET S003.
3. REFER TO HEADER/BEAM/JAMB SCHEDULE ON SHEET S003.
4. REFER TO SHEARWALL AND HOLDOWN SCHEDULE ON S004.
5. REFER TO DETAILS 1 & 2 ON S333 FOR STAIR STRINGER SIZES AND CONNECTIONS.
6. REFER TO SHEET S333 FOR STAIR FRAMING DETAILS NOT INDICATED HERE.

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
ACCEPTANCE BY CITY OF LEE'S SUMMIT, MISSOURI
04/13/2020

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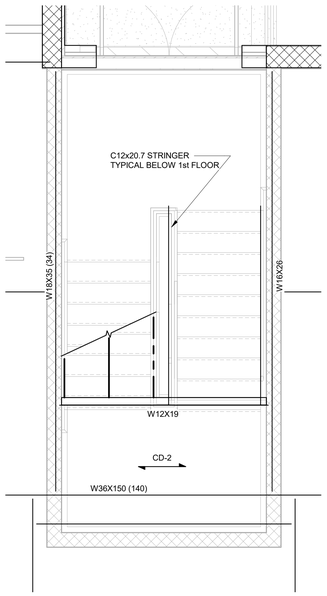
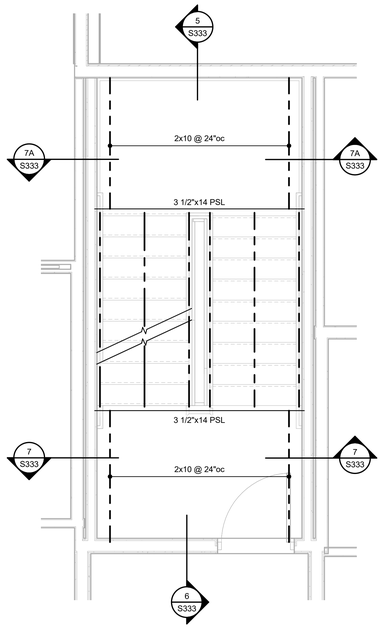
**SHEET NO.**

S120

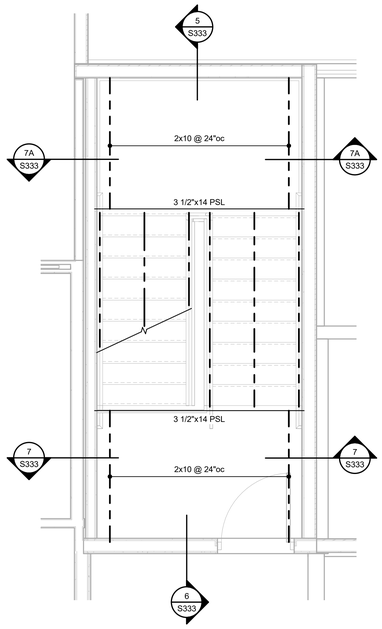
**STAIR FRAMING PLANS**




**1 STAIR B - 1st FLOOR FRAMING PLAN**
3/8" = 1'-0"




**2 STAIR B - 2nd/3rd FLOOR FRAMING PLAN**
3/8" = 1'-0"




**3 STAIR B - 4th FLOOR FRAMING PLAN**
3/8" = 1'-0"

| STAIR BEAM JAMB SCHEDULE | | | | |
|---|---|---|---|---|
| BEAM SIZE | JAMB TYPE | | | |
| | LEVEL 1 | LEVEL 2 | LEVEL 3 | LEVEL 4 |
| 3 1/2" x 14" PSL | (5) 2x6 | (4) 2x6 | (3) 2x6 | |

NOTES:
1. MID-HEIGHT BEAMS TO HAVE (1) KING STUD MINIMUM EACH SIDE OF BEAM

## WOOD STAIR FRAMING

NOTES:
1. REFER TO GENERAL NOTES ON SHEET S001.
2. REFER TO STUD BEARING WALL SCHEDULE ON SHEET S003.
3. REFER TO HEADER/BEAM/JAMB SCHEDULE ON SHEET S003.
4. REFER TO SHEARWALL AND HOLDOWN SCHEDULE ON S004.
5. REFER TO DETAILS 1 & 2 ON S333 FOR STAIR STRINGER SIZES AND CONNECTIONS.
6. REFER TO SHEET S333 FOR STAIR FRAMING DETAILS NOT INDICATED HERE.

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
ACCEPTANCE BY CITY OF LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
CHRISTOPHER A. BARNHART
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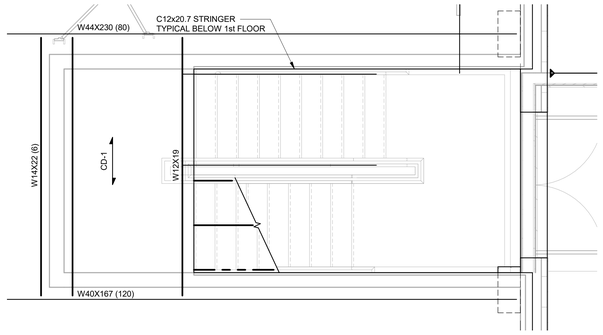
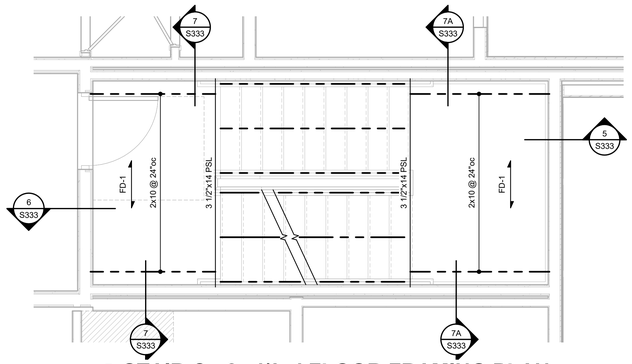
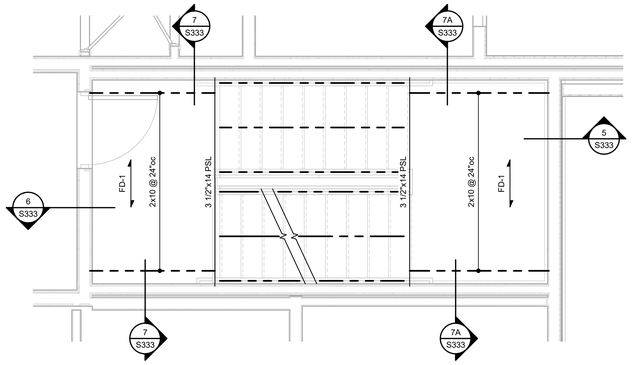
**STAIR FRAMING PLANS**




## 1 STAIR C - 1st FLOOR FRAMING PLAN
3/8" = 1'-0"




## 2 STAIR C - 2nd/3rd FLOOR FRAMING PLAN
3/8" = 1'-0"




## 3 STAIR C - 4th FLOOR FRAMING PLAN
3/8" = 1'-0"

| STAIR BEAM JAMB SCHEDULE | | | | |
|---|---|---|---|---|
| BEAM SIZE | JAMB TYPE | | | |
| | LEVEL 1 | LEVEL 2 | LEVEL 3 | LEVEL 4 |
| 3 1/2" x 14" PSL | (5) 2x6 | (4) 2x6 | (3) 2x6 | |

NOTES:
1. MID-HEIGHT BEAMS TO HAVE (1) KING STUD MINIMUM EACH SIDE OF BEAM

## WOOD STAIR FRAMING

NOTES:
1. REFER TO GENERAL NOTES ON SHEET S001.
2. REFER TO STUD BEARING WALL SCHEDULE ON SHEET S003.
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ACCEPTANCE BY CITY OF LEE'S SUMMIT, MISSOURI
04/13/2020

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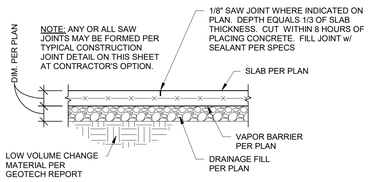
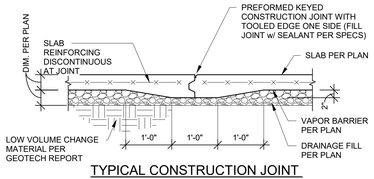
S122

**STAIR FRAMING PLANS**



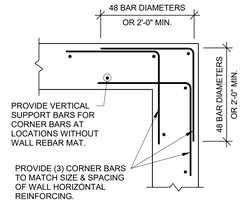

TYPICAL SAW JOINT
NOTED "SJ" ON PLAN

## 1 SECTION
3/4" = 1'-0"

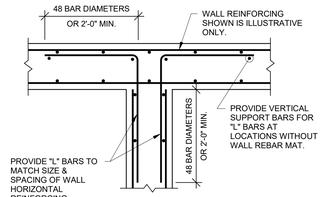



TYPICAL CONSTRUCTION JOINT
NOTED "CJ" ON PLAN

## 2 SECTION
3/4" = 1'-0"

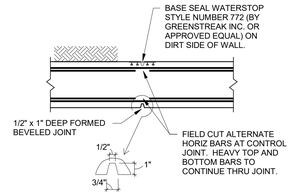



TYPICAL CORNER BARS AT CONCRETE WALLS & FOUNDATIONS



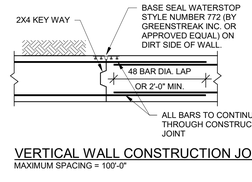

TYPICAL T-INTERSECTION REINFORCING AT CONCRETE WALLS & FOUNDATIONS

## 3 TYPICAL INTERSECTING CONCRETE WALL REINFORCING
3/4" = 1'-0"

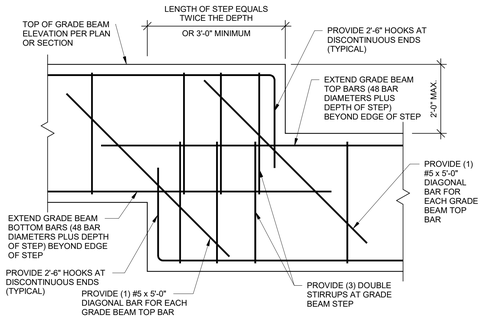



VERTICAL WALL CONTROL JOINT
MAXIMUM SPACING = 25'-0"
(COORDINATE LOCATIONS WITH ARCHITECT/ALIGN WITH MASONRY CONTROL/EXPANSION JOINTS ABOVE)

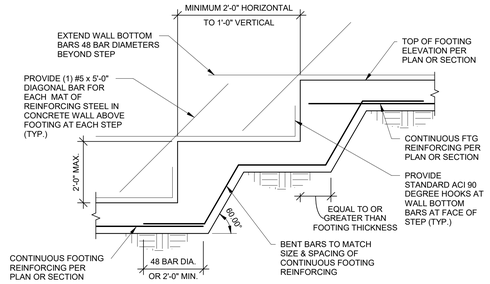
## 4 VERTICAL WALL CONTROL JOINT
3/4" = 1'-0"



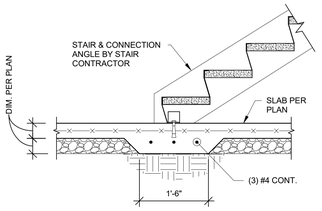

VERTICAL WALL CONSTRUCTION JOINT
MAXIMUM SPACING = 100'-0"




## 5 TYPICAL GRADE BEAM STEP
3/4" = 1'-0"

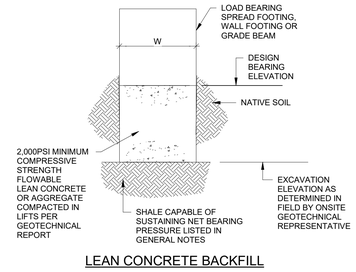



## 6 TYPICAL FOOTING STEP
1/2" = 1'-0"



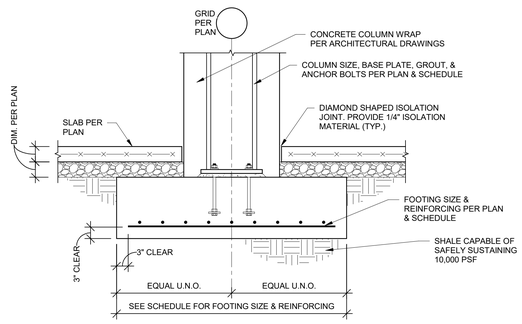

TYPICAL THICKENED SLAB AT BASE OF STAIR

## 7 SECTION
3/4" = 1'-0"




LEAN CONCRETE BACKFILL

## 8 OVEREXCAVATION DETAIL
3/4" = 1'-0"




TYPICAL INTERIOR COLUMN FOOTING

## 9 SECTION
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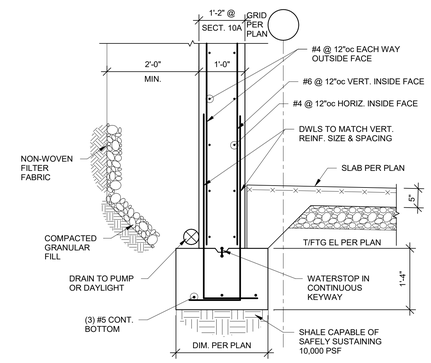
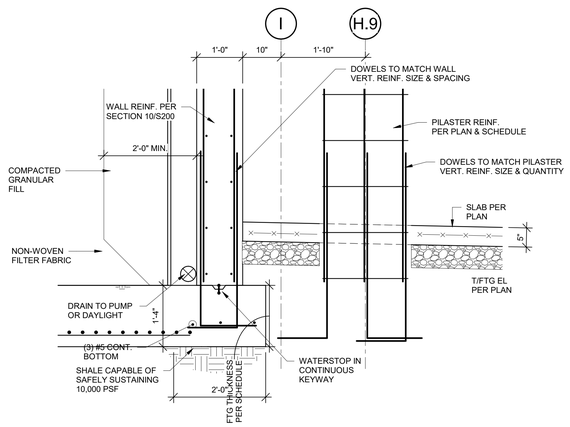



## 10 SECTION
3/4" = 1'-0"

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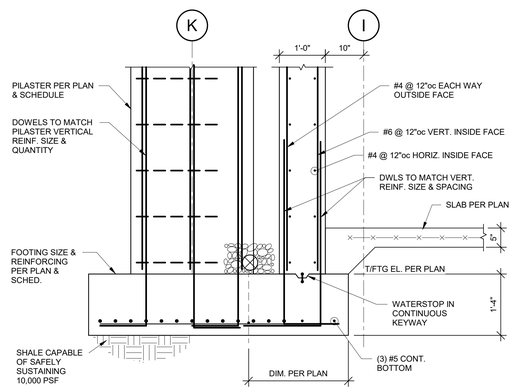
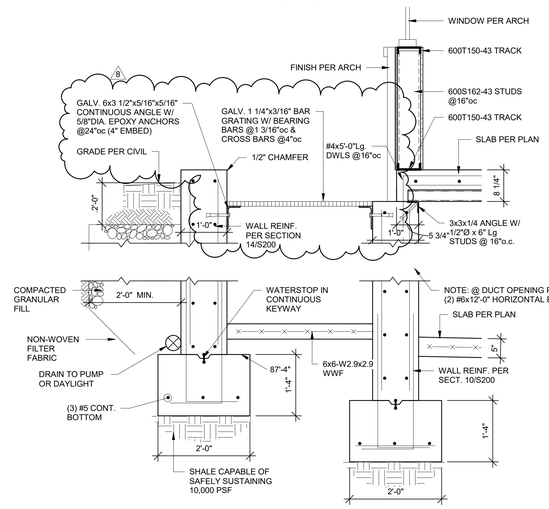
3/4" = 1'-0"




## 12 SECTION
3/4" = 1'-0"

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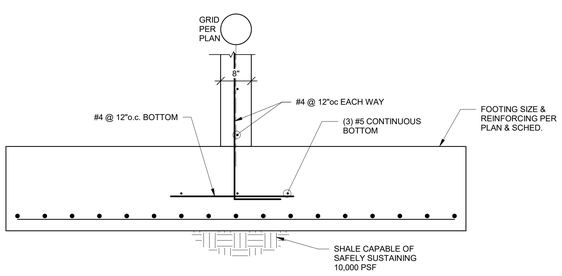
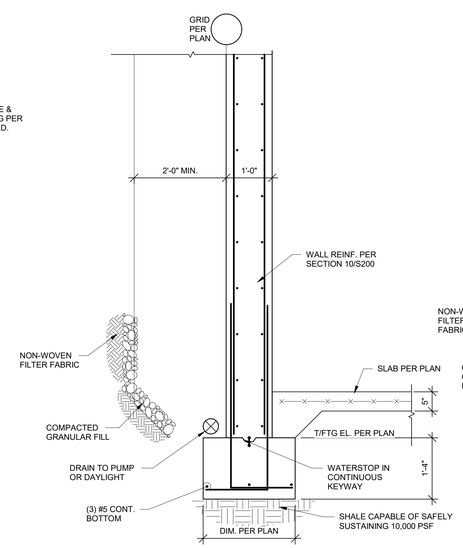
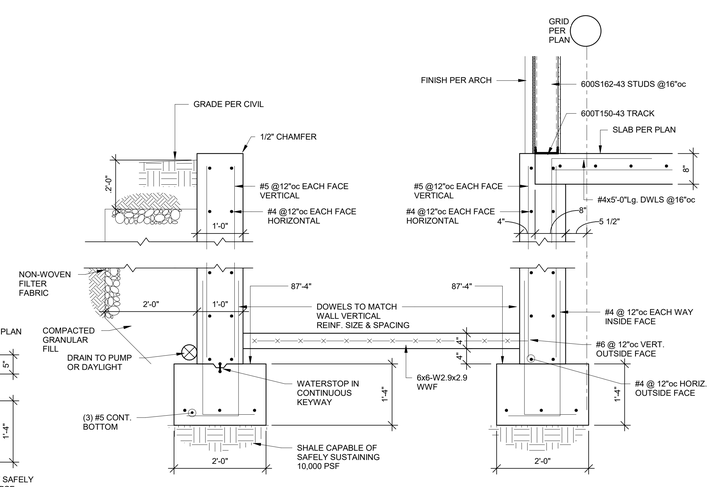


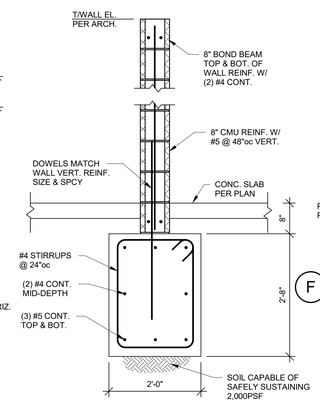

## 10A,



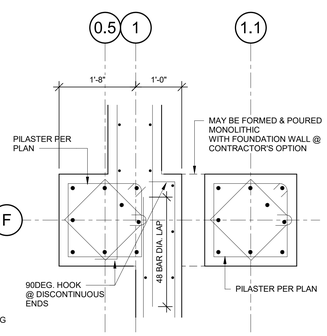

## 13 SECTION
3/4" = 1'-0"




## 14 SECTION
3/4" = 1'-0"




## 16 SECTION
3/4" = 1'-0"




## 17 DETAIL
3/4" = 1'-0"

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
CORY A. JARPE
BUSINESS
NUMBER
PE-2010026832
04-21-2020
NATIONAL ENGINEER

CLIENT
ARCHITECT
STRUCTURAL ENGINEER
CIVIL ENGINEER
MECHANICAL ENGINEER
PLUMBING ENGINEER
ELECTRICAL ENGINEER

CLIENT NAME
TR.i Architects
STRUCTURAL
CIVIL
ENGINEER
PLUMBING
ELECTRICAL

# Summit at West Pryor

TR.i Architects of the Possible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DATE: 7.29.19 (SHELL PACKAGE)

REVISIONS 2

| | | |
|---|---|---|
| 8 | REVISION 3 | 04.03.20 |

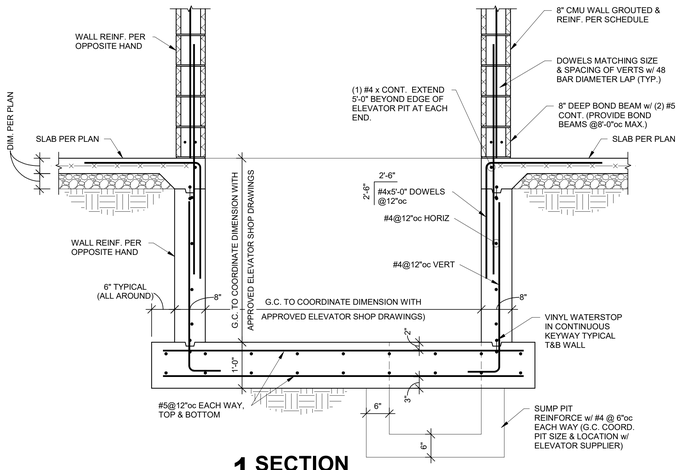
DWG BY Author

TR.i PROJECT NO. 18-046

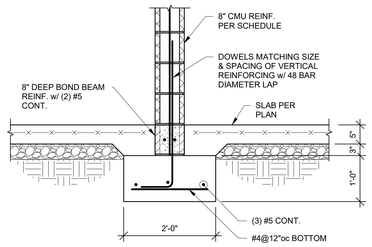
SHEET NO.

S200

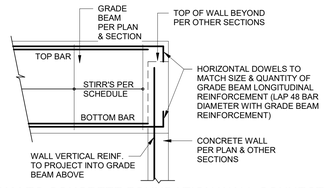
FOUNDATION SECTIONS



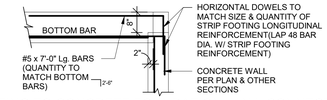

**1 SECTION**
3/4" = 1'-0"




**2 SECTION**
3/4" = 1'-0"

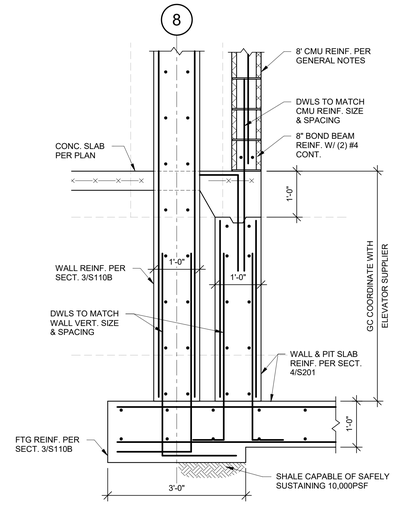



GRADE BEAM TO CONCRETE FOUNDATION WALL CONNECTION

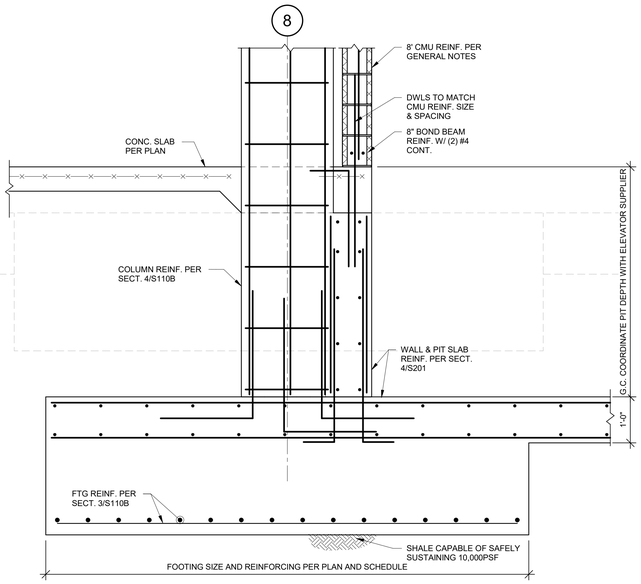



STRIP FOOTING TO CONCRETE FOUNDATION WALL CONNECTION

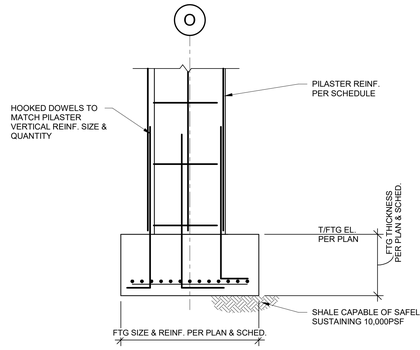
**3 SECTION**
1/2" = 1'-0"




**4 SECTION**
3/4" = 1'-0"




**5 SECTION**
3/4" = 1'-0"




**6 SECTION**
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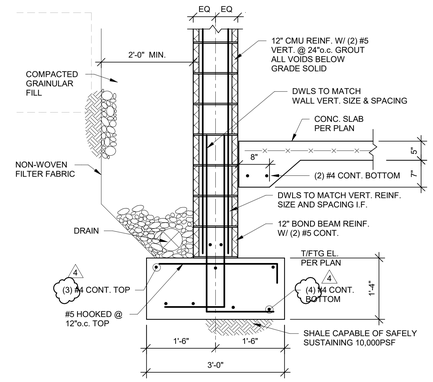
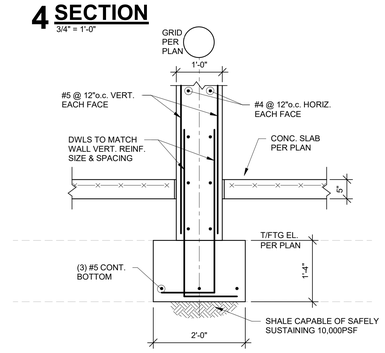
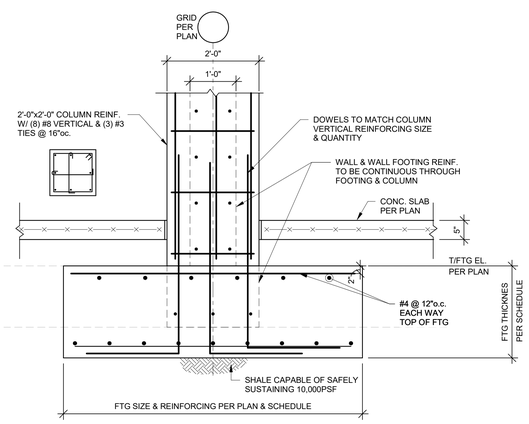


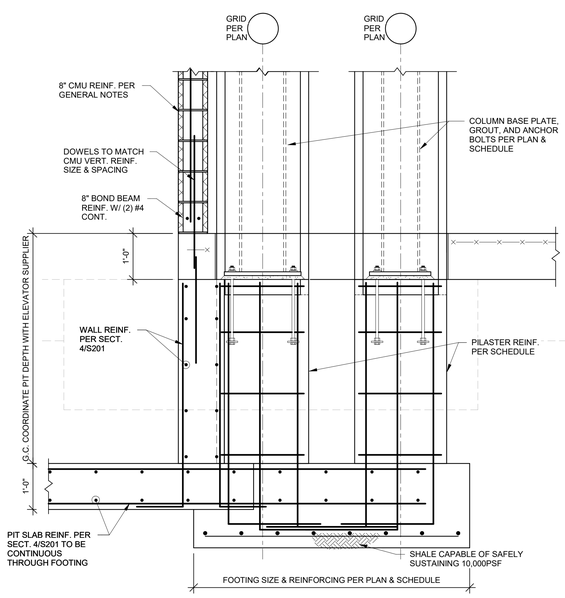

**7 SECTION**
3/4" = 1'-0"



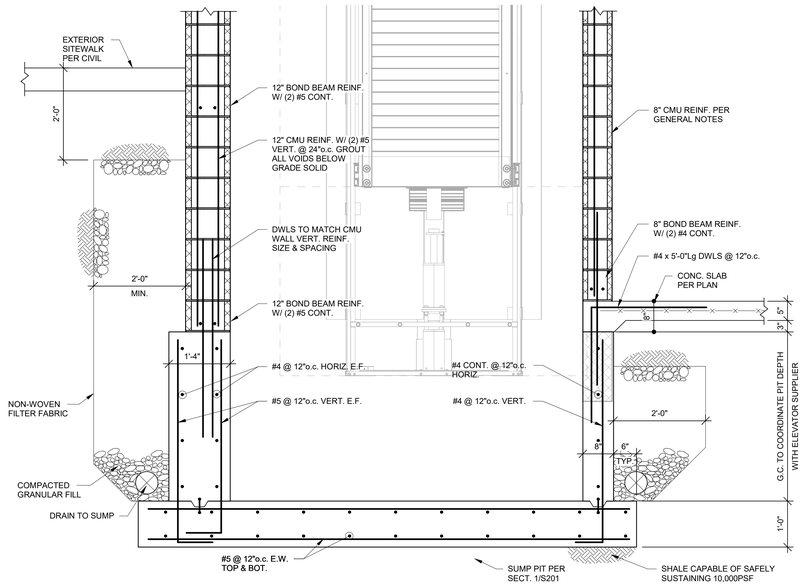

**8 SECTION**
3/4" = 1'-0"




**9 SECTION**
3/4" = 1'-0"




**10 SECTION**
3/4" = 1'-0"




**11 SECTION**
3/4" = 1'-0"

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
CHRIS A. NIMPHA
NUMBER
PE-2010026831
40-16-19

| | |
|---|---|
| CLIENT | |
| ARCHITECT | |
| STRUCTURAL ENGINEER | |
| CIVIL ENGINEER | |
| MECHANICAL ENGINEER | |
| PLUMBING ENGINEER | |
| ELECTRICAL ENGINEER | |

| | |
|---|---|
| CLIENT NAME | |
| TR.i Architects | |
| STRUCTURAL | |
| CIVIL | |
| ENGINEER | |
| PLUMBING | |
| ELECTRICAL | |

# Summit at West Pryor

TR.i Architects
Architects of the Possible

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**DATE:** 7.29.19 (SHELL PACKAGE)

**REVISIONS** 2

| | | |
|---|---|---|
| 4 | STRUCTURAL REVISION | 10.16.19 |

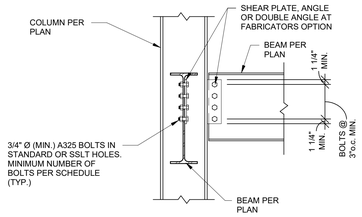
**DWG BY** Author

**TR.i PROJECT NO.** 18-046

**SHEET NO.**

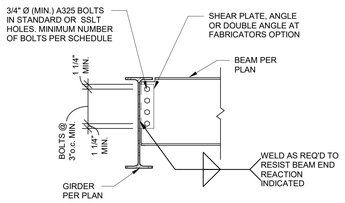
S201

**FOUNDATION SECTIONS**



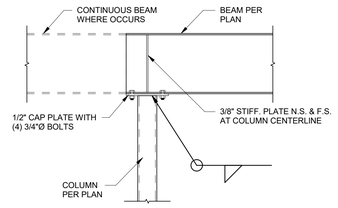

TYPICAL BEAM TO COLUMN SHEAR CONNECTION

**1 DETAIL**
3/4" = 1'-0"



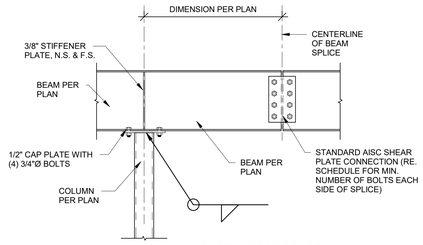

TYPICAL BEAM TO GIRDER CONNECTION

**2 DETAIL**
3/4" = 1'-0"



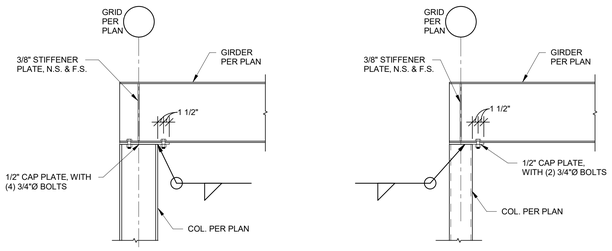

TYPICAL BEAM TO COLUMN CONNECTION

**3 DETAIL**
3/4" = 1'-0"




TYPICAL BEAM SPLICE

**4 DETAIL**
3/4" = 1'-0"

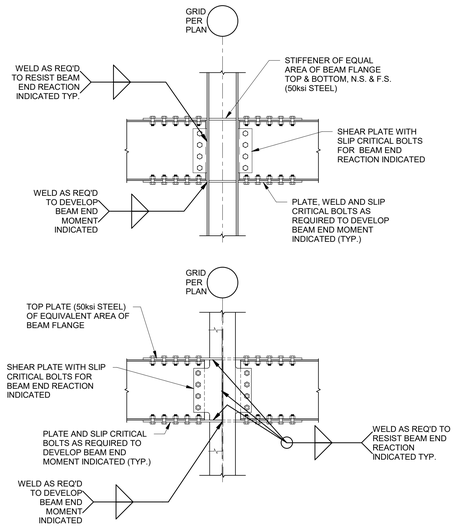



@ WIDE FLANGE COLUMN

@ HSS COLUMN

TYPICAL ROOF BEAM TO COLUMN CONNECTION AT EXTERIOR WALL

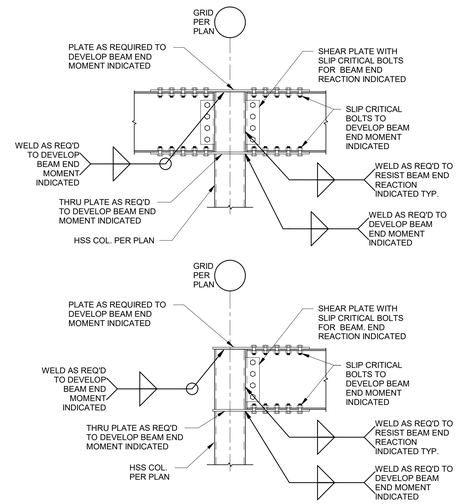
**5 SECTION**
3/4" = 1'-0"




TYP. BEAM TO WIDE FLANGE COL. MOMENT CONNECTIONS

NOTE: FLANGE PLATES MAY BE FULL PENETRATION WELDED TO COLUMN AT CONTRACTORS OPTION

**6 SECTION**
3/4" = 1'-0"




TYPICAL BEAM TO HSS COLUMN MOMENT CONNECTIONS

**7 SECTION**
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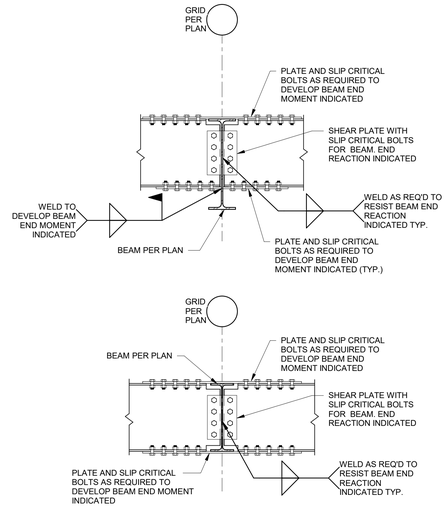
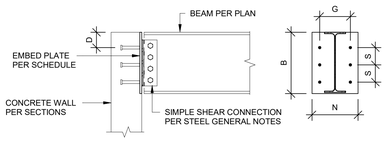


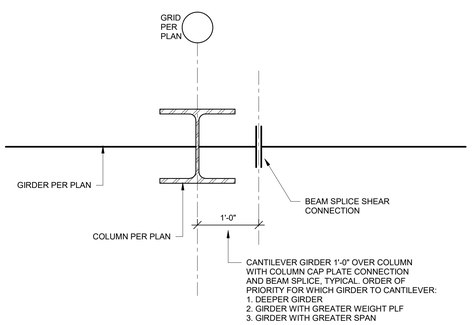

TYP. BEAM TO BEAM MOMENT CONNECTIONS

**8 SECTION**
3/4" = 1'-0"



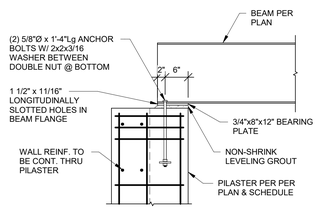

| EMBED PLATE SCHEDULE | | | | | |
|---|---|---|---|---|---|
| BEAM SIZE | PLATE SIZE (txBxN) | HEADED STUDS | STUD GAGE (G) | ROW SPACING (S) | EDGE DISTANCE (D) |
| W8, W10, W12 | 3/4"x12"x9" | (4) 3/4"Øx6" | 6" | 6" | 3" |
| W14 | 3/4"x16"x10" | (6) 3/4"Øx6" | 7" | 5" | 4" |
| W16, W18, W21x44 | 3/4"x22"x15" | (8) 3/4"Øx6" | 12" | 5½" | 4" |
| W21 (U.N.O.), W24, W27 | 3/4"x31½"x21" | (10) 3/4"Øx6" | 18" | 6½" | 4" |
| W30 | 3/4"x33½"x21" | (10) 3/4"Øx6" | 18" | 6½" | 6" |
| W33 or LARGER | REFER TO SECTION 11/S300 | | | | |

**TYPICAL BEAM TO EMBED PLATE CONNECTION DETAIL**
**9**
3/4" = 1'-0"




**TYPICAL FRAMING DETAIL AT TOP OF PODIUM COLUMN**
**10**
1" = 1'-0"

4




**11 SECTION**
3/4" = 1'-0"

| SHEAR CONNECTION MINIMUM ROWS OF BOLTS SCHEDULE | |
|---|---|
| BEAM SIZE | MINIMUM ROWS OF BOLTS |
| W8,C8 | 2 |
| W10,C10 | 2 |
| W12,C12 | 2 |
| W14 | 3 |
| W16, C15 | 3 |
| W18 | 4 |
| W21 | 5 |
| W24 | 5 |
| W27 | 6 |
| W30 | 7 |
| W33 | 8 |
| W36 | 8 |

SCHEDULE NOTES:
1. ALL BOLTS SHALL BE 3/4" Ø ASTM A325 MINIMUM.
2. ALL BOLTS SHALL BE SPACED AT 3"o.c. MINIMUM.
3. ALL BOLTS SHALL HAVE HEAVY HEX NUTS.
4. ALL BOLTS SHALL BE FULLY PRE-TENSIONED.
5. CLIP ANGLES MAY BE SHOP WELDED TO BEAM WEB PER AISC.
6. FOR BEAMS WITH AXIAL LOADS PER DRAWINGS, BOLTS AND CONNECTIONS SHALL BE SLIP-CRITICAL PER AISC GUIDELINES. INCREASE NUMBER OF BOLTS AND/OR PROVIDE EXTENDED SHEAR PLATE CONNECTION w/ AN ADDITIONAL COLUMN OF BOLTS TO ACCOMODATE COMBINED FORCES.
7. PROVIDE ASTM A490 BOLTS IF REQUIRED TO MEET END REACTION LOAD REQUIREMENTS

STEEL CONNECTION NOTES:
1. CONNECTIONS SHOWN IN THESE DETAILS ARE MINIMUM REQUIREMENTS.
2. FABRICATOR SHALL BE RESPONSIBLE FOR THE DESIGNING AND DETAILING OF EACH CONNECTION FOR LOADS SHOWN ON THE DRAWINGS IN ACCORDANCE WITH THE SPECIFICATIONS AND THE STRUCTURAL GENERAL NOTES.
3. SUGGESTED CONNECTION DETAILS ARE SHOWN.
4. FABRICATOR MAY OPT TO USE OTHER AISC APPROVED CONNECTIONS IN LIEU OF THESE SHOWN HEREIN.
5. CONNECTION DETAILING SHALL COMPLY WITH THE STANDARD DETAILS SHOWN IN THE LATEST EDITION OF THE AISC MANUAL OF STEEL CONSTRUCTION.
6. BOLT SPACING AND EDGE DISTANCES SHALL BE ADJUSTED PER AISC MANUAL FOR BOLTS LARGER THAN 3/4" DIAMETER.

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
CHRIS A. HUMPHREY
NUMBER
PE-2010026837
04-16-19

CLIENT
ARCHITECT
STRUCTURAL ENGINEER
CIVIL ENGINEER
MECHANICAL ENGINEER
PLUMBING ENGINEER
ELECTRICAL ENGINEER

CLIENT NAME
TR.i Architects
STRUCTURAL
CIVIL
ENGINEER
PLUMBING
ELECTRICAL

# Summit at West Pryor

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Architects of the Possible

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F: 314-395-9751
www.triarchitects.com
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**DATE:** 7.29.19 (SHELL PACKAGE)

**REVISIONS** 4

| | | |
|---|---|---|
| 4 | STRUCTURAL REVISION | 10.16.19 |

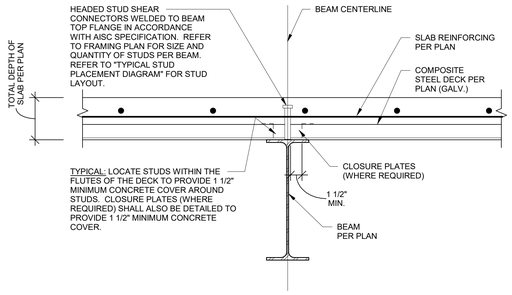
**DWG BY** Author

**TR.i PROJECT NO.** 18-046

**SHEET NO.**

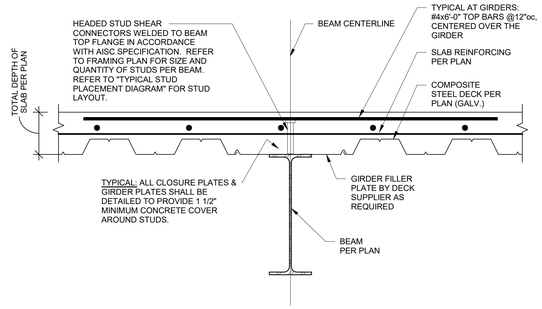
S300

**STEEL FRAMING SECTIONS**



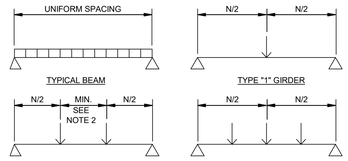

TYPICAL COMPOSITE BEAM DETAIL
(DECK SPAN PERPENDICULAR TO BEAM)

## 1 SECTION
1 1/2" = 1'-0"




TYPICAL COMPOSITE BEAM/GIRDER DETAIL
(DECK SPAN PARALLEL TO BEAM)

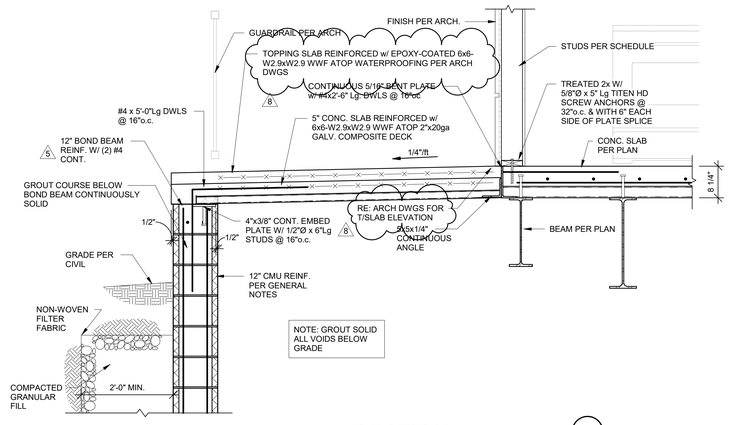
## 2 SECTION
1 1/2" = 1'-0"



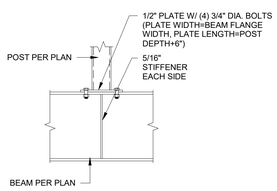

TYPICAL STUD PLACEMENT DIAGRAM

1. ALL DIAGRAMS REPRESENT IDEALIZED CONDITIONS. ACTUAL FRAMING CONFIGURATIONS MAY REQUIRE ADDITIONAL INTERPRETATION.
2. MAXIMUM SPACING OF STUDS SHALL BE 36"o.c. IF STUD SPACING EXCEEDS 12" o.c. PROVIDE 5/8" DIA. PUDDLE WELD ATTACHMENT SUCH THAT THE MAXIMUM AVERAGE SPACING OF STUD/WELD ATTACHMENT IS 12"o.c., AND MAXIMUM SPACING BETWEEN ATTACHMENTS IS 18".
3. SHEAR CONNECTOR PLACEMENT SHALL BE FULLY DETAILED ON THE METAL DECK SHOP DRAWINGS.

## 3 TYPICAL STUD PLACEMENT
3/4" = 1'-0"

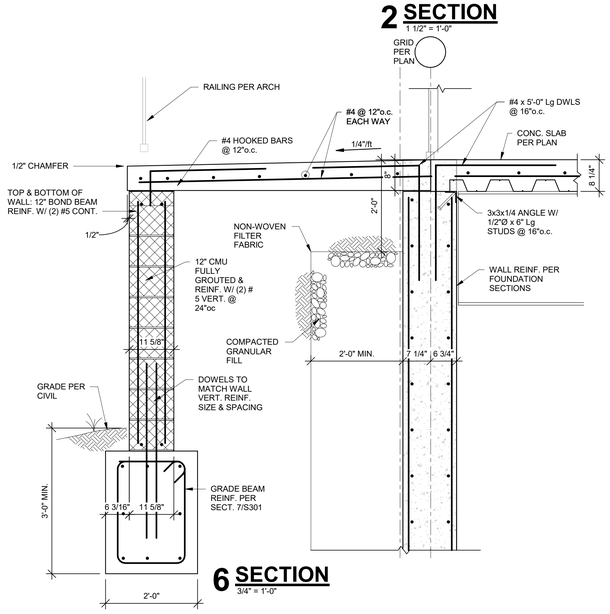



## 4 SECTION
3/4" = 1'-0"

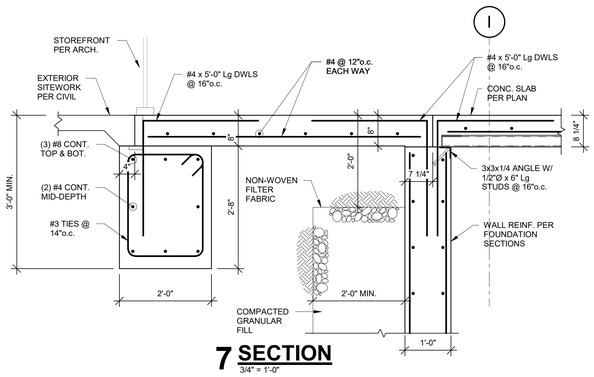



TYPICAL POST BASE CONNECTION

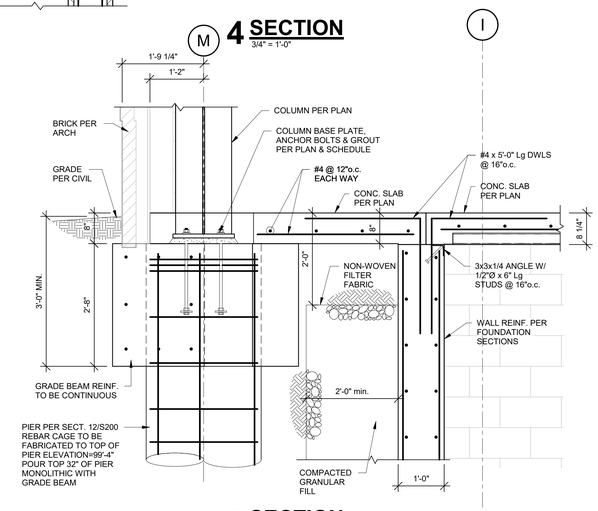
## 5 SECTION
3/4" = 1'-0"



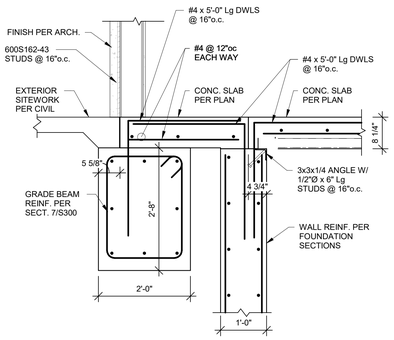

## 6 SECTION
3/4" = 1'-0"



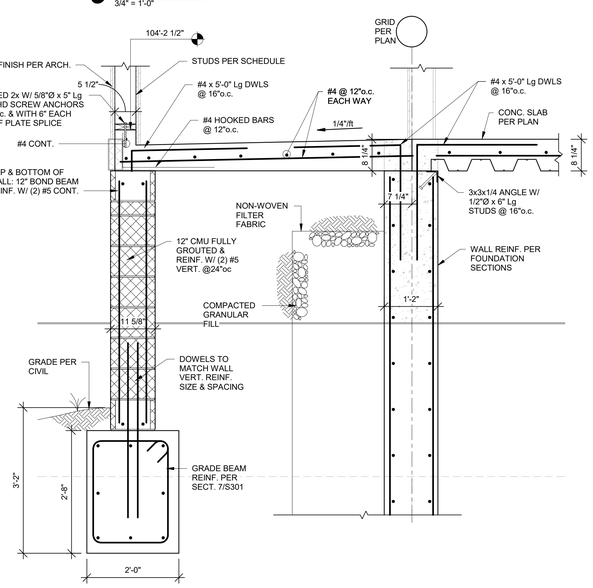

## 7 SECTION
3/4" = 1'-0"



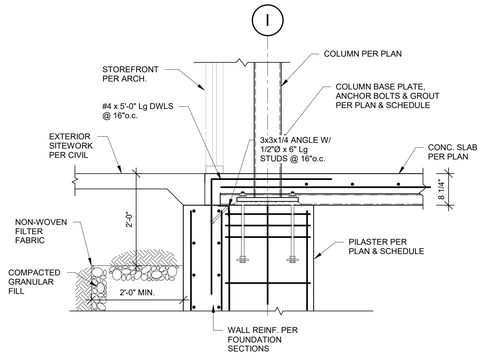

## 8 SECTION
3/4" = 1'-0"



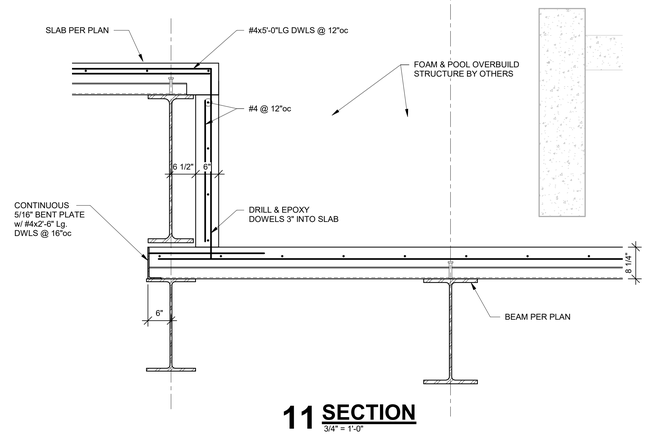

## 9 SECTION
3/4" = 1'-0"



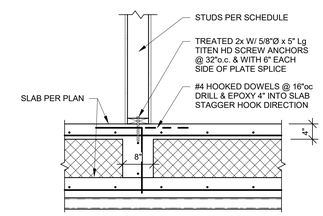

## 13 SECTION
3/4" = 1'-0"




## 10 SECTION
3/4" = 1'-0"




## 11 SECTION
3/4" = 1'-0"




## 12 SECTION
3/4" = 1'-0"

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
CHRISTOPHER A. BARTON
NUMBER
PE-2010026837
04-31-2020
PROFESSIONAL ENGINEER

CLIENT
ARCHITECT
STRUCTURAL ENGINEER
CIVIL ENGINEER
MECHANICAL ENGINEER
PLUMBING ENGINEER
ELECTRICAL ENGINEER

CLIENT NAME
TR.i Architects
STRUCTURAL
CIVIL
ENGINEER
PLUMBING
ELECTRICAL

# Summit at West Pryor


TR.i Architects
Architects of the Possible
TR.i Architects
9812 Manchester Road
St. Louis, Missouri 63119
T: 314-395-9750
F: 314-395-9751
www.trarchitects.com

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DATE: 7.29.19 (SHELL PACKAGE)

REVISIONS

| # | | |
|---|---|---|
| 5 | STRUCTURAL REVISION 2 | |
| 8 | REVISION 3 | 04.03.20 |

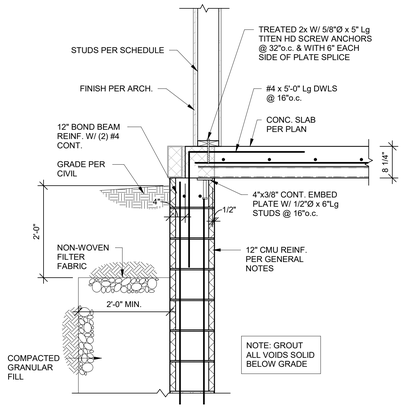
DWG BY: Author

TR.i PROJECT NO.: 18-046

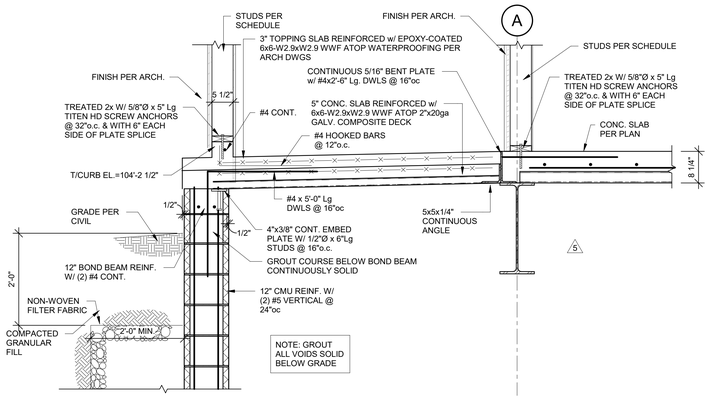
SHEET NO.

S301

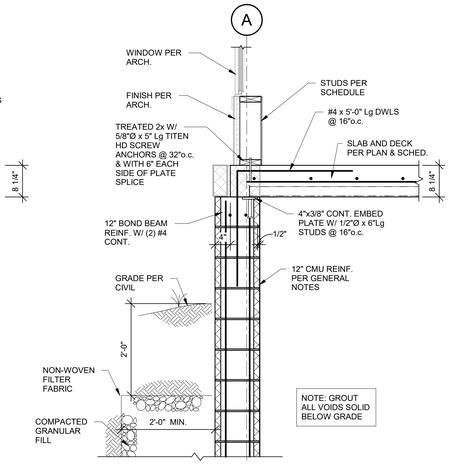
STEEL FRAMING SECTIONS



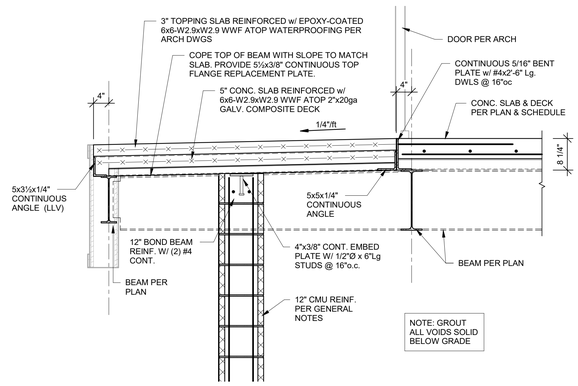

**1 SECTION**
3/4" = 1'-0"



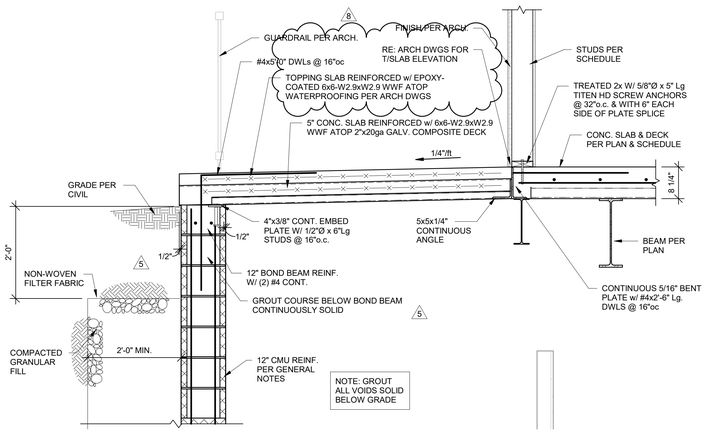

**2 SECTION**
3/4" = 1'-0"



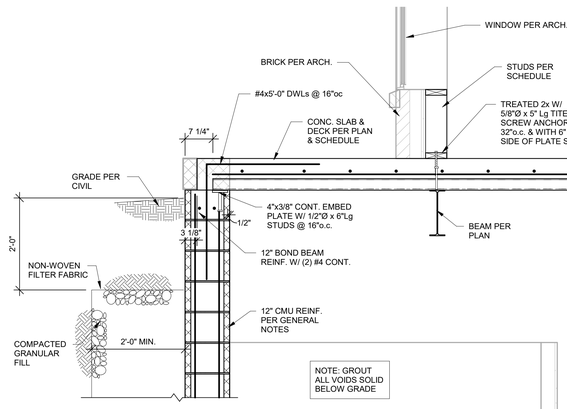

**3 SECTION**
3/4" = 1'-0"



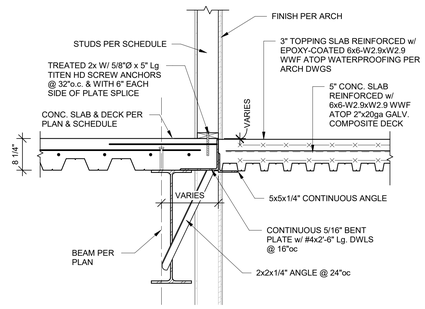

**4 SECTION**
3/4" = 1'-0"



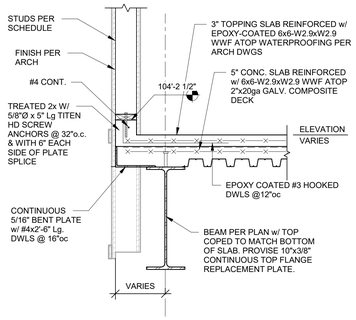

**5 SECTION**
3/4" = 1'-0"



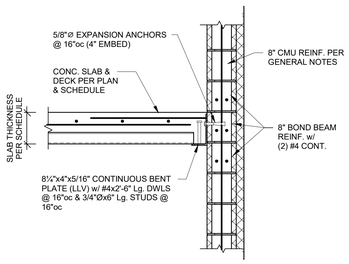

**6 SECTION**
3/4" = 1'-0"



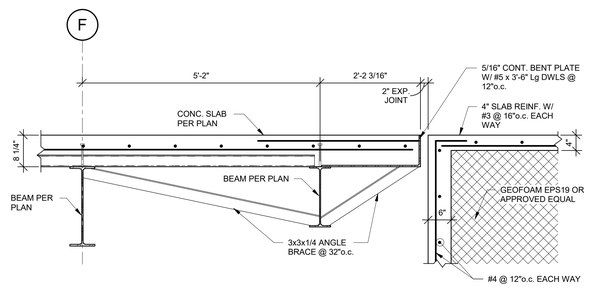

**7 SECTION**
3/4" = 1'-0"




**8 SECTION**
3/4" = 1'-0"




**9 SECTION**
3/4" = 1'-0"




**10 SECTION**
3/4" = 1'-0"

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
CHRISTOPHER A. BARTH
NUMBER PE-2010026837
04-01-2020
NATIONAL

CLIENT
ARCHITECT
STRUCTURAL ENGINEER
CIVIL ENGINEER
MECHANICAL ENGINEER
PLUMBING ENGINEER
ELECTRICAL ENGINEER

CLIENT NAME
TR.i Architects
STRUCTURAL
CIVIL
ENGINEER
PLUMBING
ELECTRICAL

# Summit at West Pryor

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F: 314-395-9751
www.trarchitects.com
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**DATE:** 7.29.19 (SHELL PACKAGE)

**REVISIONS** 4

| | | |
|---|---|---|
| 5 | STRUCTURAL REVISION 2 | |
| 8 | REVISION 3 | 04.03.20 |

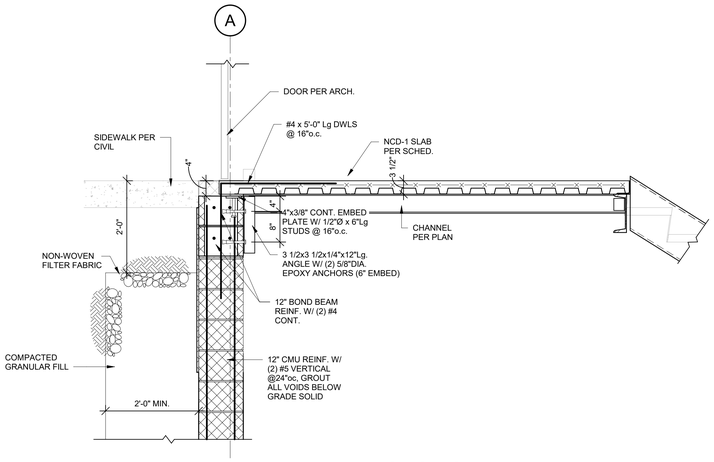
**DWG BY** Author

**TR.i PROJECT NO.** 18-046

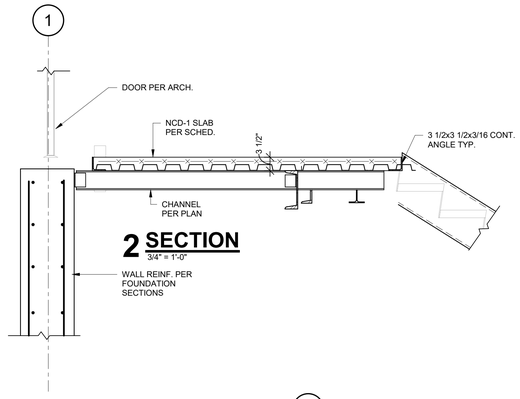
**SHEET NO.**

S302

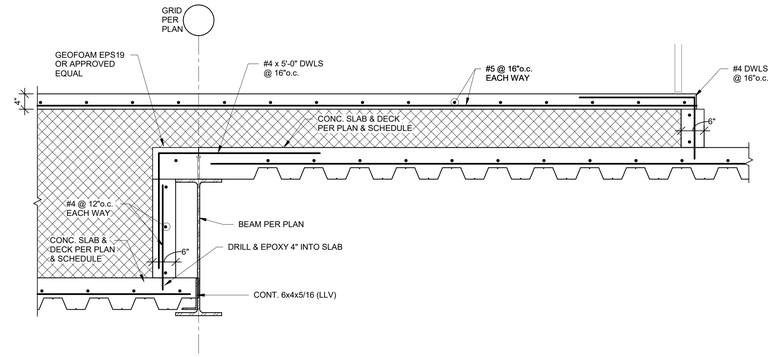
**STEEL FRAMING SECTIONS**



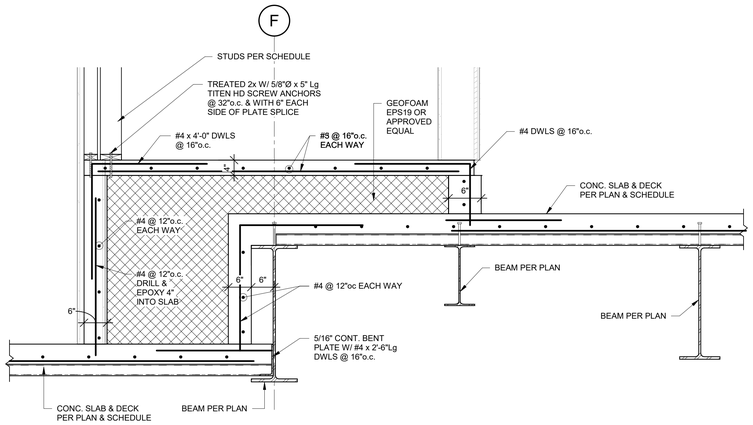

**1 SECTION**
3/4" = 1'-0"



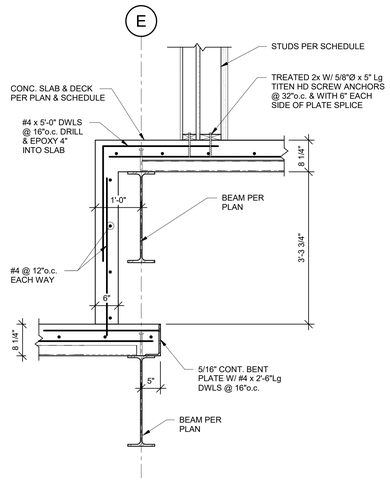

**2 SECTION**
3/4" = 1'-0"



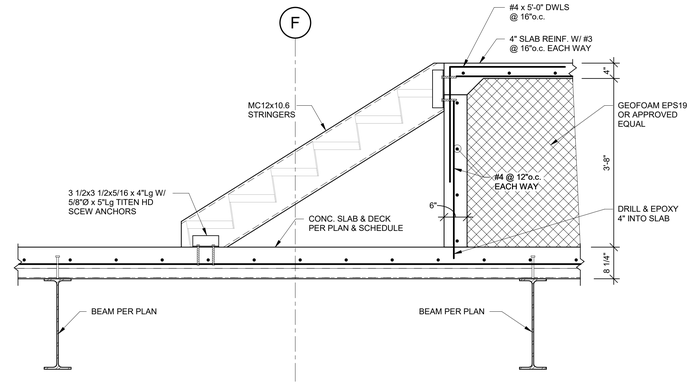

**3 SECTION**
3/4" = 1'-0"




**4 SECTION**
3/4" = 1'-0"




**5 SECTION**
3/4" = 1'-0"




**6 SECTION**
3/4" = 1'-0"

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
BUILDING DEPARTMENT
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
JOHN A. WRIGHT
NUMBER
PE-2010026832
PROFESSIONAL ENGINEER
7-28-19

CLIENT
ARCHITECT
STRUCTURAL ENGINEER
CIVIL ENGINEER
MECHANICAL ENGINEER
PLUMBING ENGINEER
ELECTRICAL ENGINEER

CLIENT NAME
TR.i Architects
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CIVIL
ENGINEER
PLUMBING
ELECTRICAL

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**REVISIONS** 2

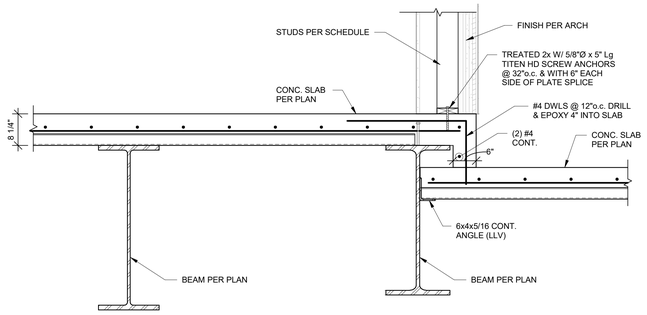
**DWG BY** Author

**TR.i PROJECT NO.** 18-046

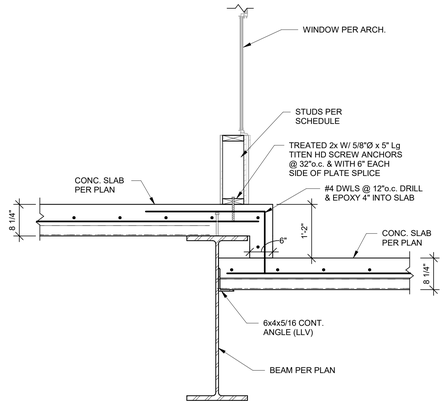
**SHEET NO.**

S303

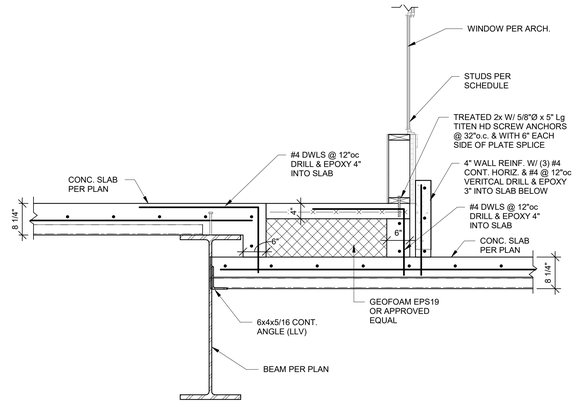
**STEEL FRAMING SECTIONS**




**1 SECTION**
3/4" = 1'-0"




**2 SECTION**
3/4" = 1'-0"

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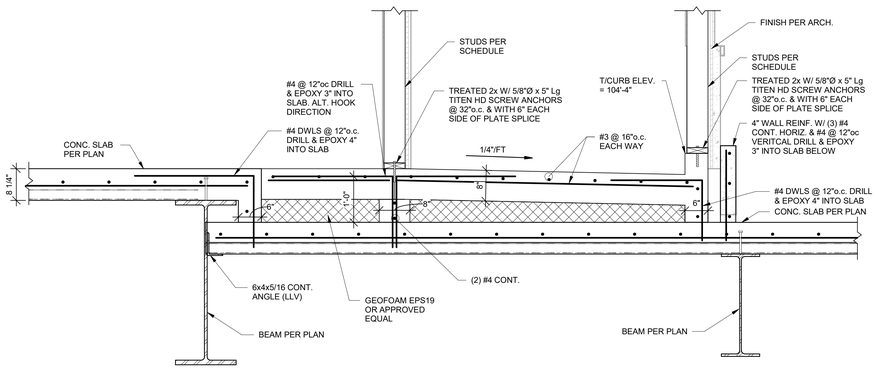
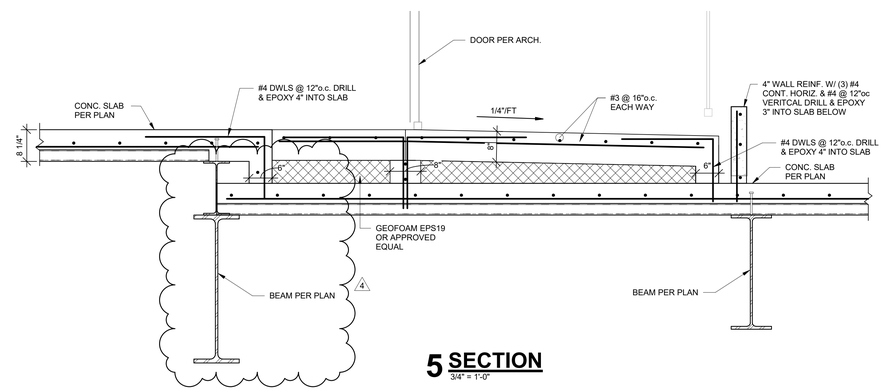
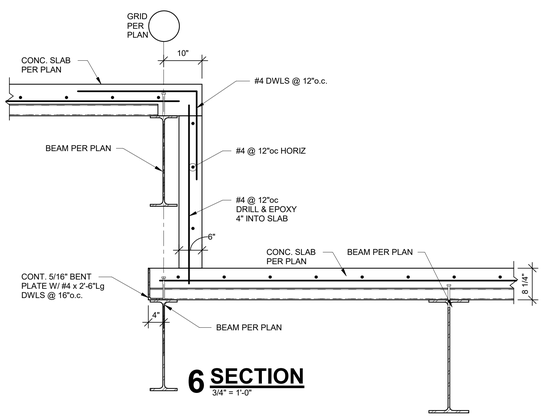
3/4" = 1'-0"



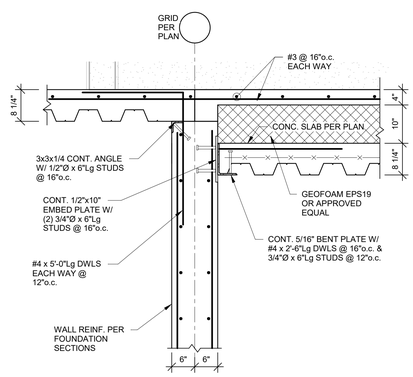

**4 SECTION**
3/4" = 1'-0"



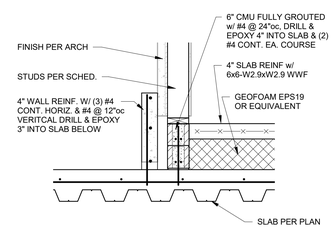

**5 SECTION**
3/4" = 1'-0"




**6 SECTION**
3/4" = 1'-0"




**7 SECTION**
3/4" = 1'-0"




**8 SECTION**
3/4" = 1'-0"

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
DAVID A. ANDERSON
NUMBER
E-2010036831
04-16-19
PROFESSIONAL ENGINEER

CLIENT
ARCHITECT
STRUCTURAL ENGINEER
CIVIL ENGINEER
MECHANICAL ENGINEER
PLUMBING ENGINEER
ELECTRICAL ENGINEER

CLIENT NAME
TR.i Architects
STRUCTURAL
CIVIL
ENGINEER
PLUMBING
ELECTRICAL

# Summit at West Pryor

TR.i Architects of the Possible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F: 314-395-9751
www.trarchitects.com

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**DATE:** 7.29.19 (SHELL PACKAGE)

**REVISIONS** 2

| | | |
|---|---|---|
| 4 | STRUCTURAL REVISION | 10.16.19 |

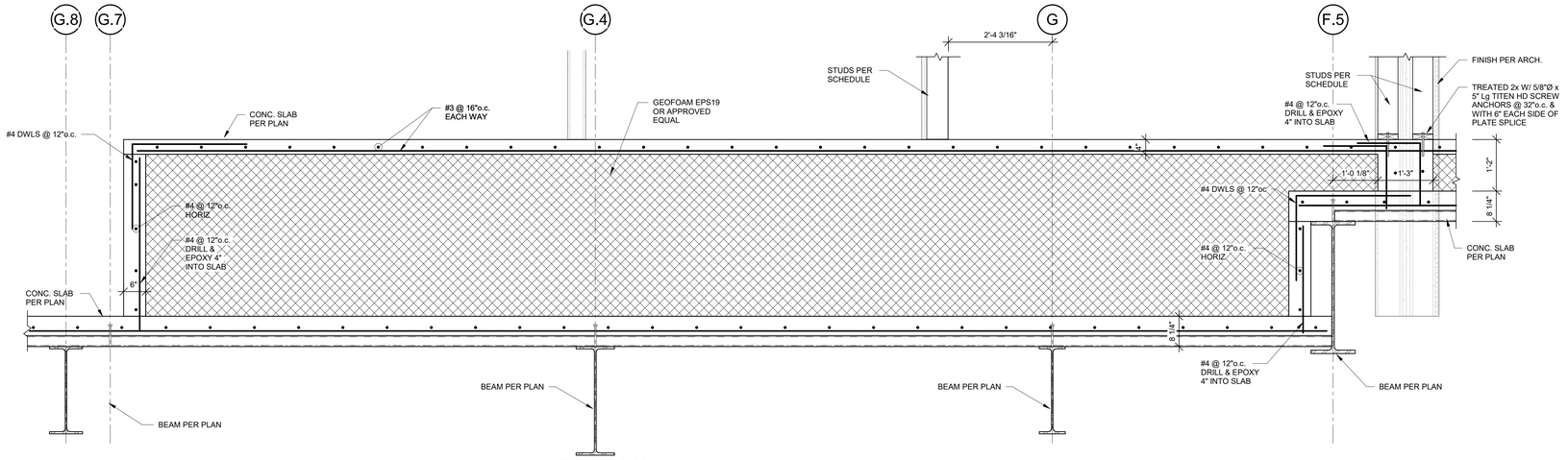
**DWG BY** Author

**TR.i PROJECT NO.** 18-046

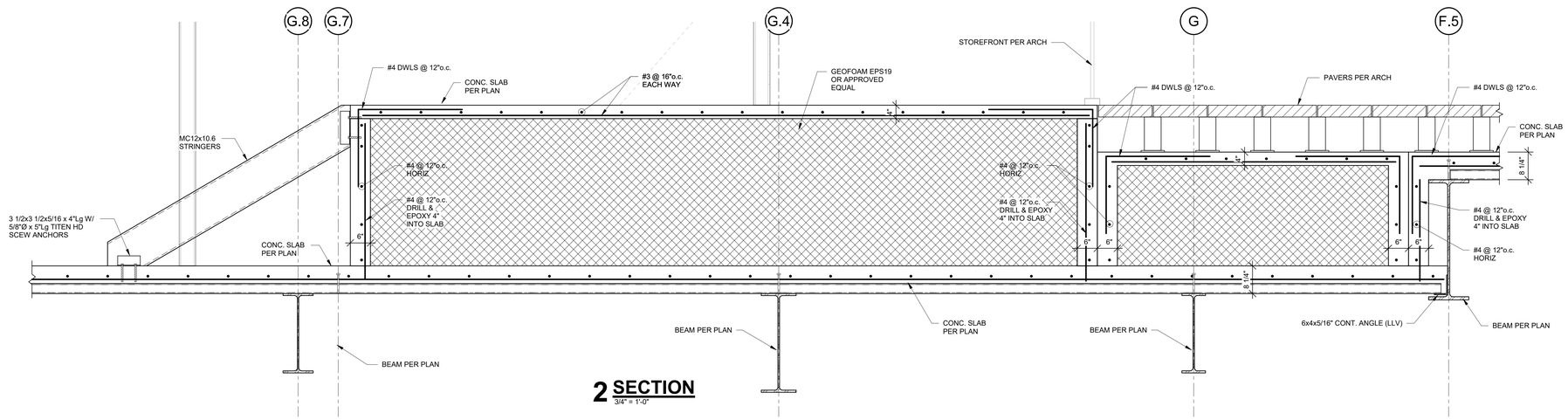
**SHEET NO.**

S304

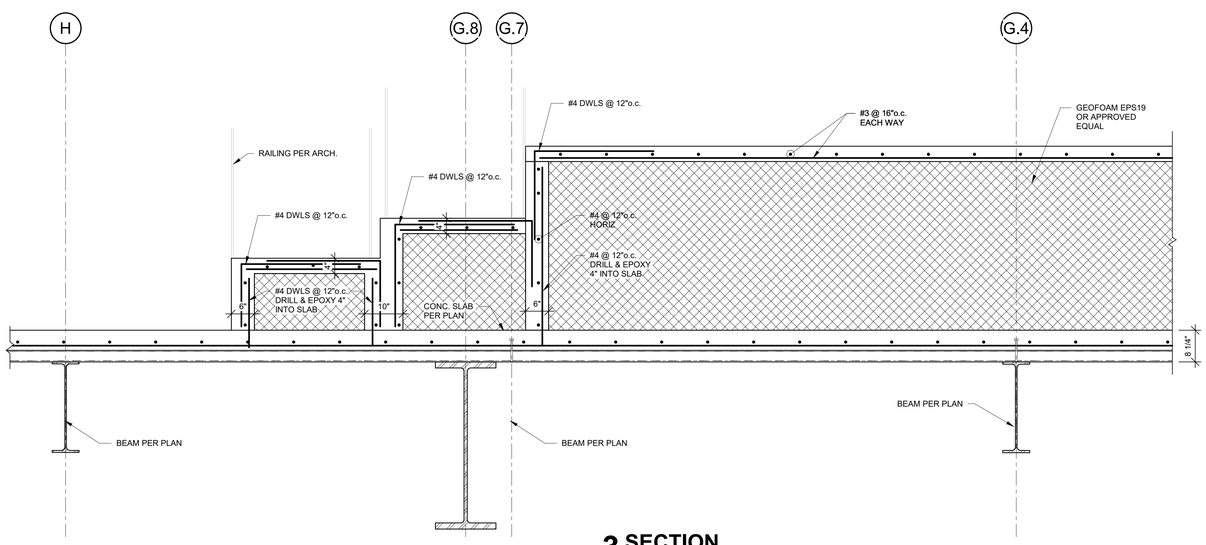
**STEEL FRAMING SECTIONS**



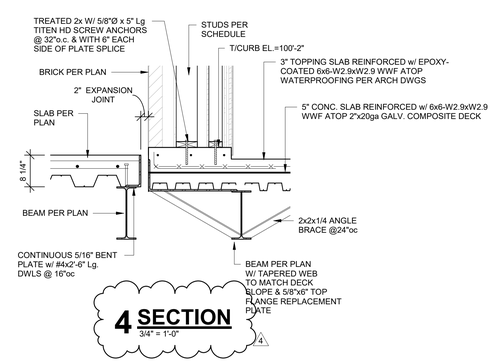

## 1 SECTION
3/4" = 1'-0"




## 2 SECTION
3/4" = 1'-0"




## 3 SECTION
3/4" = 1'-0"




## 4 SECTION
3/4" = 1'-0"

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
CLINT A. HUMPHREY
NUMBER
Architect
PE-2010026331
40-16-19
PROFESSIONAL ENGINEER

CLIENT
ARCHITECT
STRUCTURAL ENGINEER
CIVIL ENGINEER
MECHANICAL ENGINEER
PLUMBING ENGINEER
ELECTRICAL ENGINEER

CLIENT NAME
TR.i Architects
STRUCTURAL
CIVIL
ENGINEER
PLUMBING
ELECTRICAL

# Summit at West Pryor

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St. Louis, Missouri 63119
T: 314-395-9750
F: 314-395-9751
www.triarchitects.com
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**DATE:** 7.29.19 (SHELL PACKAGE)

**REVISIONS** 4

| | |
|---|---|
| 4 | STRUCTURAL REVISION 10.16.19 |

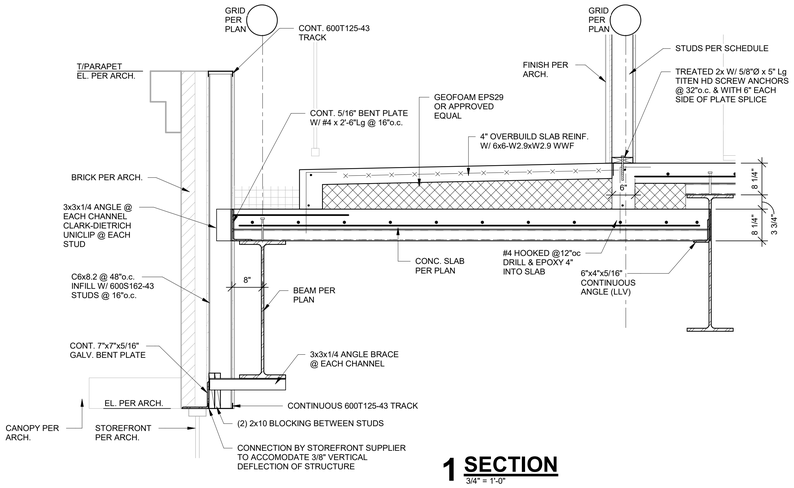
**DWG BY** Author

**TR.i PROJECT NO.** 18-046

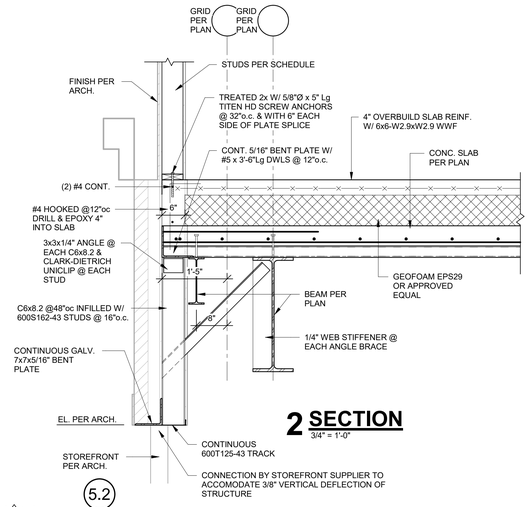
**SHEET NO.**

# S305

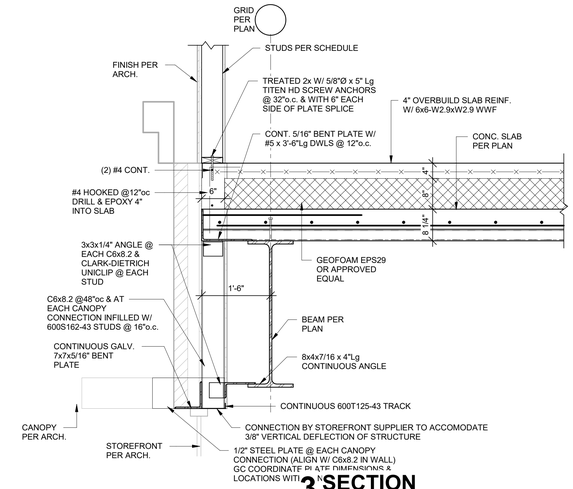
**STEEL FRAMING SECTIONS**



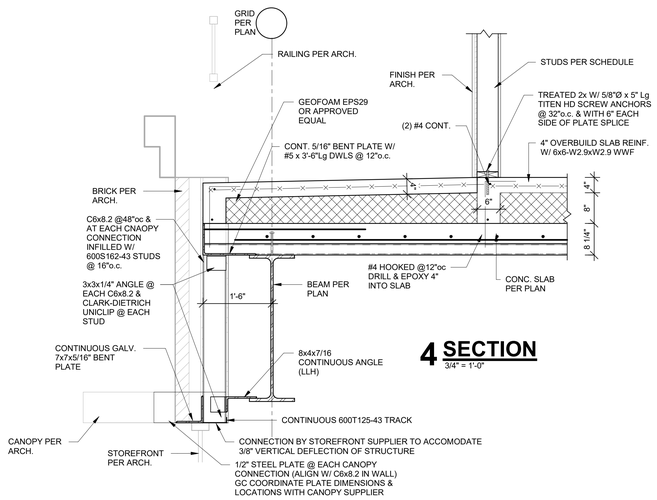

## 1 SECTION
3/4" = 1'-0"



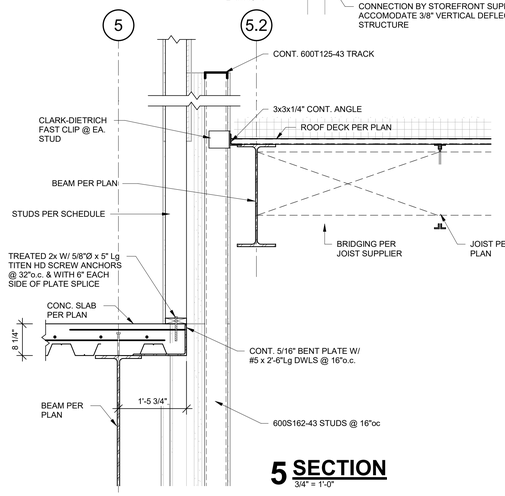

## 2 SECTION
3/4" = 1'-0"



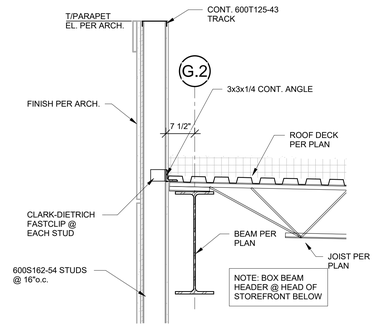

## 3 SECTION
3/4" = 1'-0"



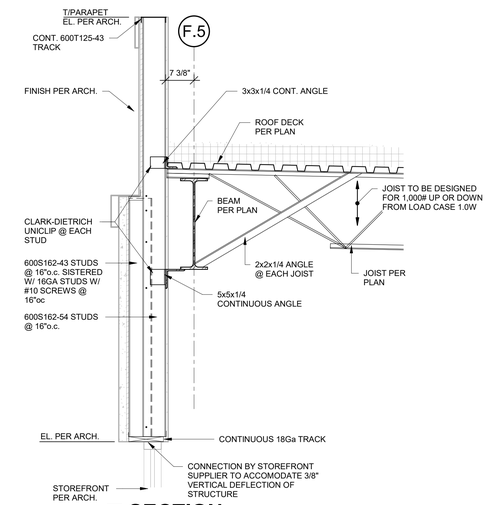

## 4 SECTION
3/4" = 1'-0"



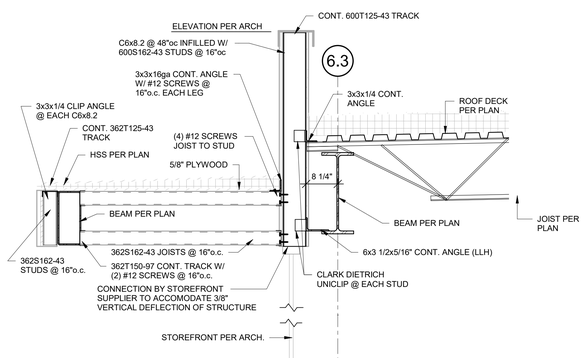

## 5 SECTION
3/4" = 1'-0"

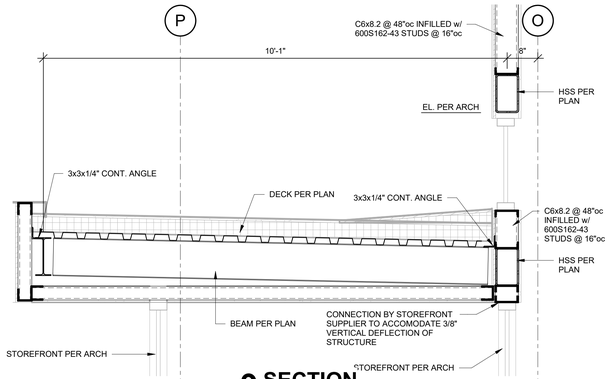



## 6 SECTION
3/4" = 1'-0"

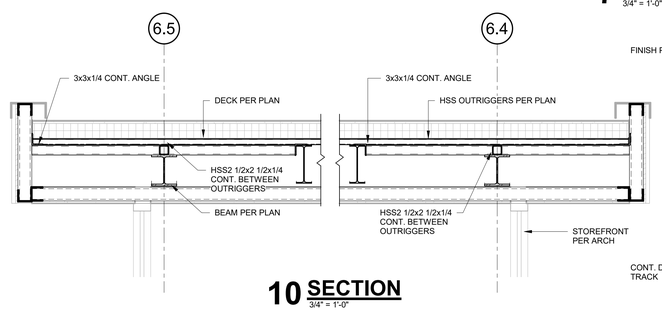



## 7 SECTION
3/4" = 1'-0"

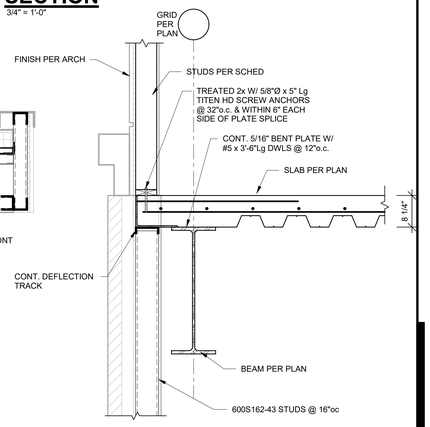


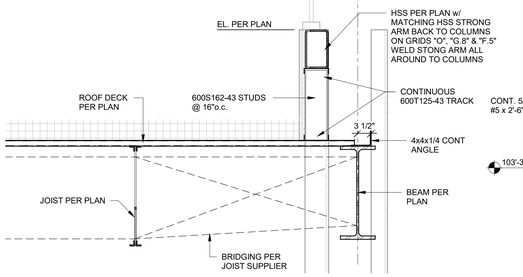

## 9 SECTION
3/4" = 1'-0"



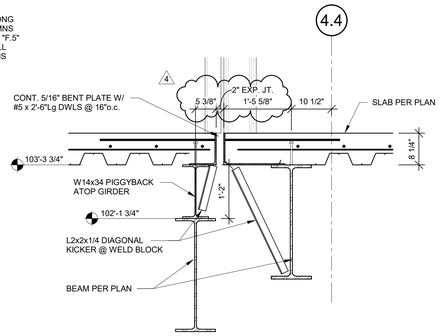

## 10 SECTION
3/4" = 1'-0"



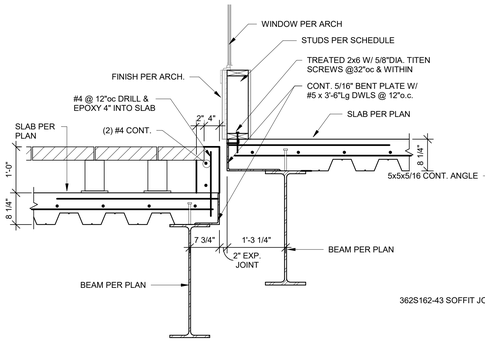

## 11 SECTION
3/4" = 1'-0"



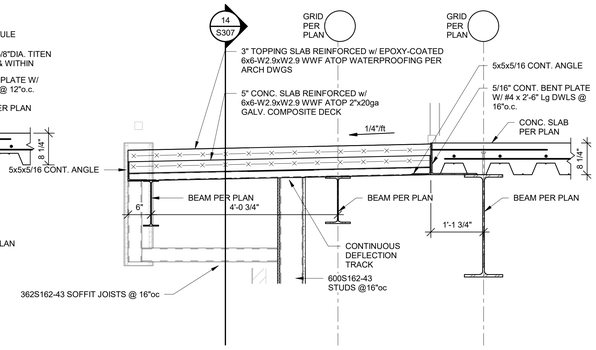

## 8 SECTION
3/4" = 1'-0"




## 12 SECTION
3/4" = 1'-0"




## 13 SECTION
3/4" = 1'-0"




## 14 SECTION
3/4" = 1'-0"

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
TRAVIS J. ROSTOFF
NUMBER
PE-2010026837
10-16-19
PROFESSIONAL ENGINEER

CLIENT
ARCHITECT
STRUCTURAL ENGINEER
CIVIL ENGINEER
MECHANICAL ENGINEER
PLUMBING ENGINEER
ELECTRICAL ENGINEER

CLIENT NAME
TR.i Architects
STRUCTURAL
CIVIL
ENGINEER
PLUMBING
ELECTRICAL

# Summit at West Pryor

TR.i Architects of the Possible


TR.i Architects
9812 Manchester Road
St. Louis, Missouri 63119
T: 314-395-9750
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www.trarchitects.com

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**DATE:** 7.29.19 (SHELL PACKAGE)

**REVISIONS** 4

| | | |
|---|---|---|
| 4 | STRUCTURAL REVISION | 10.16.19 |

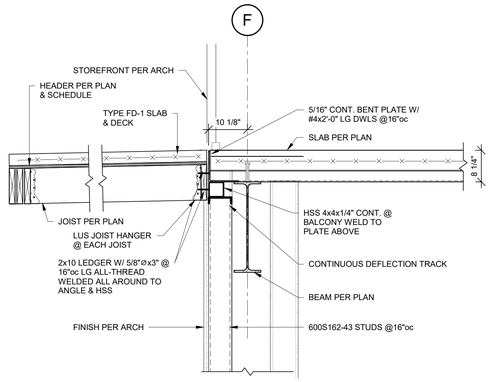
**DWG BY** Author

**TR.i PROJECT NO.** 18-046

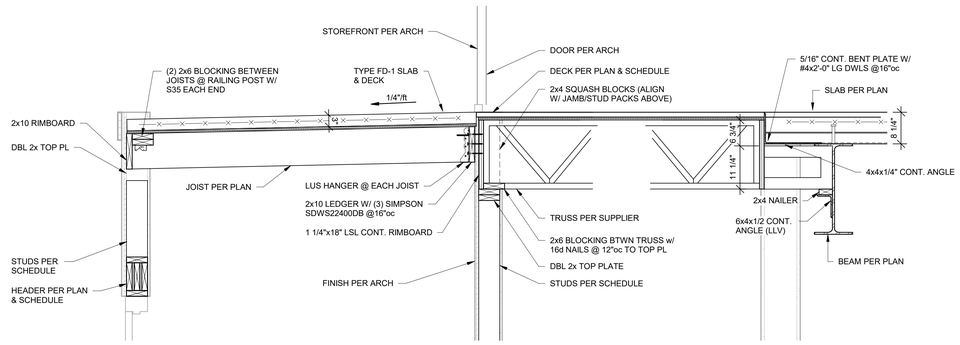
**SHEET NO.**

S306

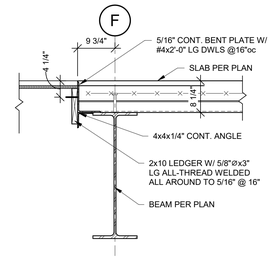
**STEEL FRAMING SECTIONS**



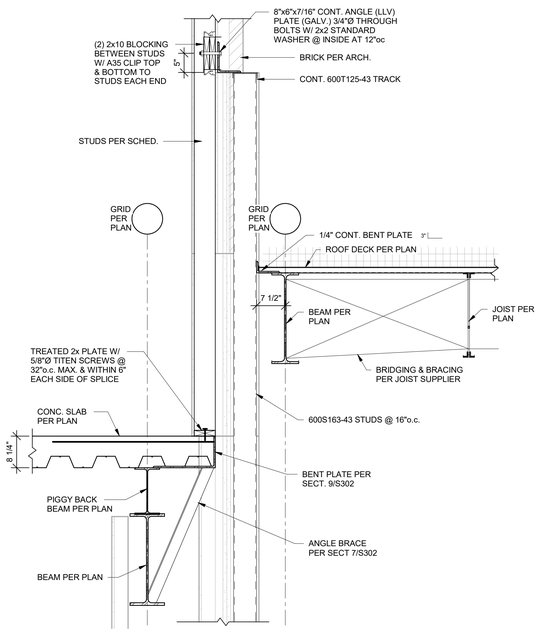

## 1 SECTION
3/4" = 1'-0"




## 2 SECTION
3/4" = 1'-0"




## 3 SECTION
3/4" = 1'-0"

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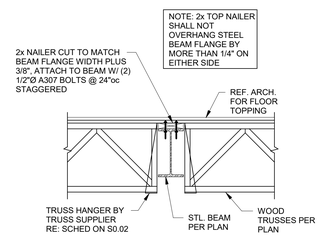
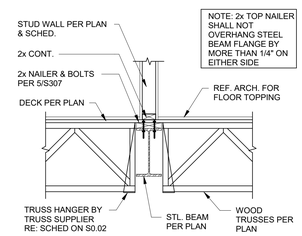
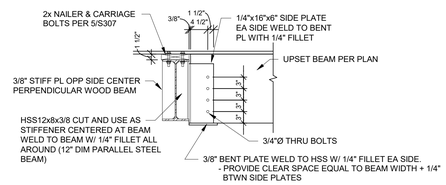
3/4" = 1'-0"



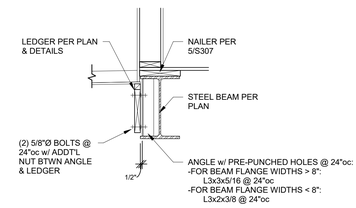

## 5 SECTION
3/4" = 1'-0"



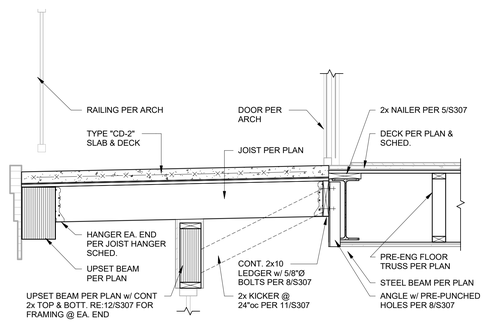

## 6 SECTION
3/4" = 1'-0"



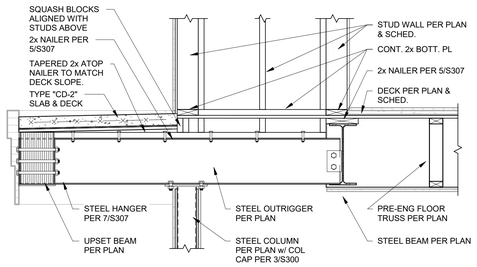

## 7 SECTION
3/4" = 1'-0"



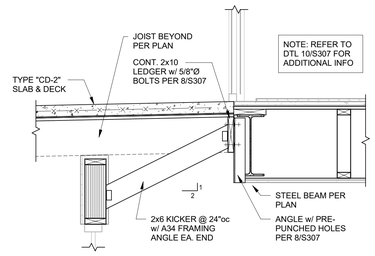

## 8 SECTION
3/4" = 1'-0"



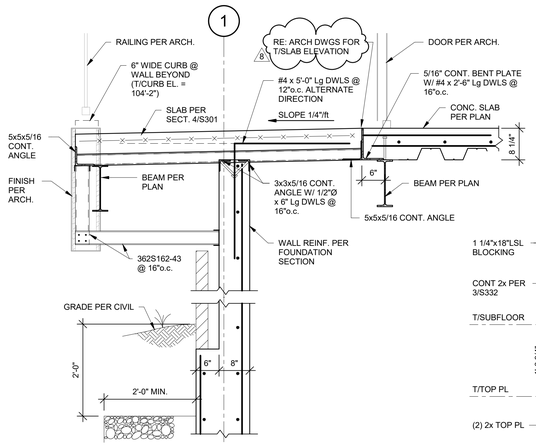

## 10 SECTION
3/4" = 1'-0"



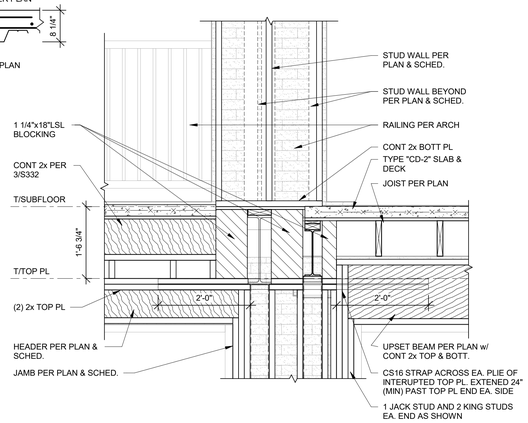

## 10A SECTION
3/4" = 1'-0"



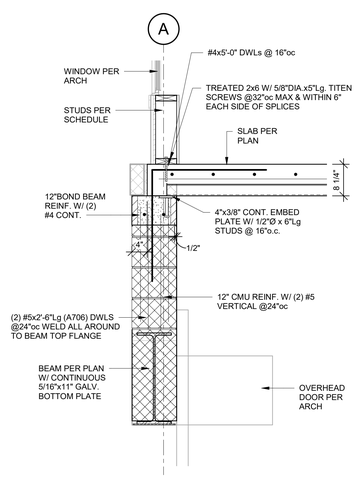

## 11 SECTION
3/4" = 1'-0"



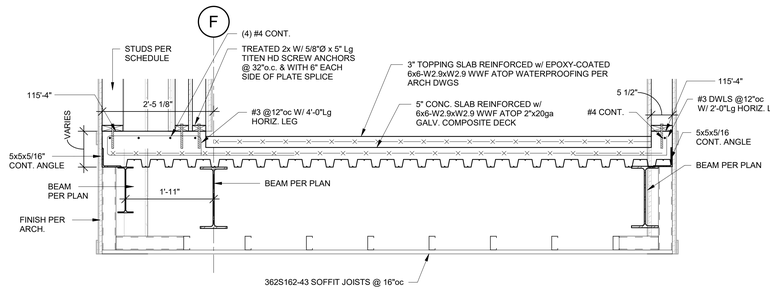

## 9 SECTION
3/4" = 1'-0"




## 12 SECTION
3/4" = 1'-0"




## 13 SECTION
3/4" = 1'-0"




## 14 SECTION
3/4" = 1'-0"

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
CHRISTOPHER A. BURTON
NUMBER
PE-2010026837
NATIONAL ACCESS
04-11-2020

CLIENT
ARCHITECT
STRUCTURAL ENGINEER
CIVIL ENGINEER
MECHANICAL ENGINEER
PLUMBING ENGINEER
ELECTRICAL ENGINEER

CLIENT NAME
TR.i Architects
STRUCTURAL
CIVIL
ENGINEER
PLUMBING
ELECTRICAL

# Summit at West Pryor

TR.i Architects
Architects of the Possible
9812 Manchester Road
St. Louis, Missouri 63119
T: 314-395-9750
F: 314-395-9751
www.triarchitects.com
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**DATE:** 7.29.19 (SHELL PACKAGE)

**REVISIONS**

| | | |
|---|---|---|
| 8 | REVISION 3 | 04.03.20 |

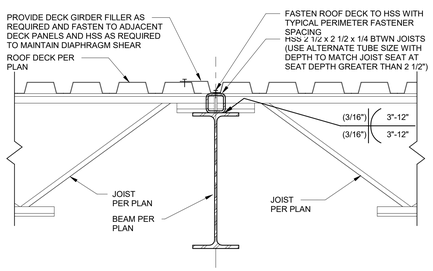
**DWG BY** Author

**TR.i PROJECT NO.** 18-046

**SHEET NO.**

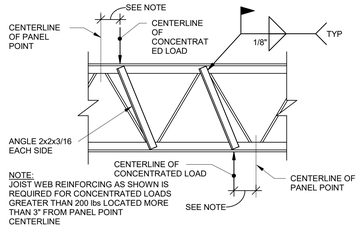
# S307

**STEEL FRAMING SECTIONS**



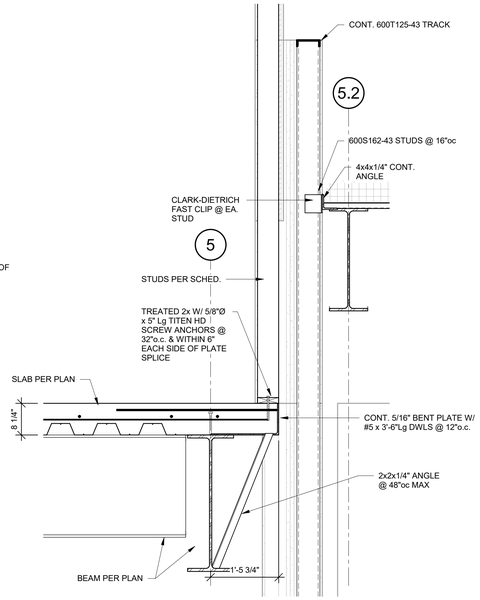

TYPICAL COLLECTOR ELEMENT ATOP BEAMS ALIGNED WITH BRACED FRAMES OR MOMENT FRAMES

## 1 SECTION
1 1/2" = 1'-0"

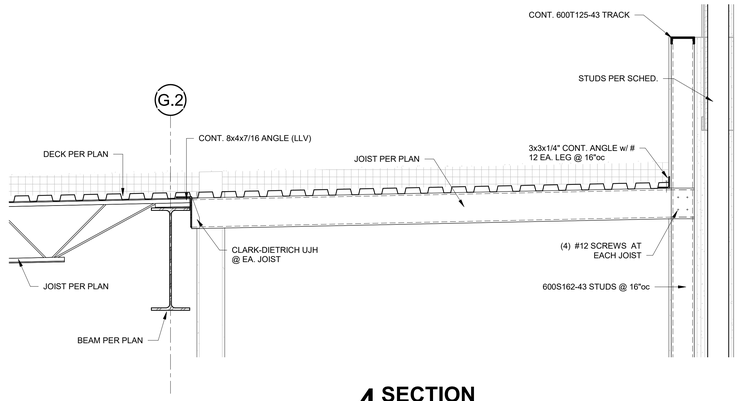



TYPICAL JOIST REINFORCING DETAIL

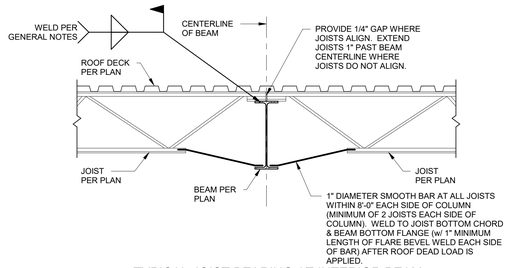
## 2 SECTION
3/4" = 1'-0"




## 3 SECTION
3/4" = 1'-0"

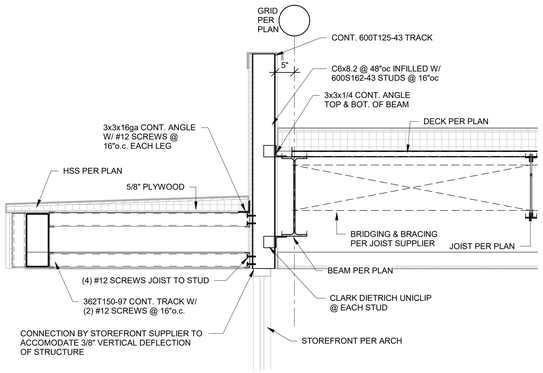



## 4 SECTION
3/4" = 1'-0"

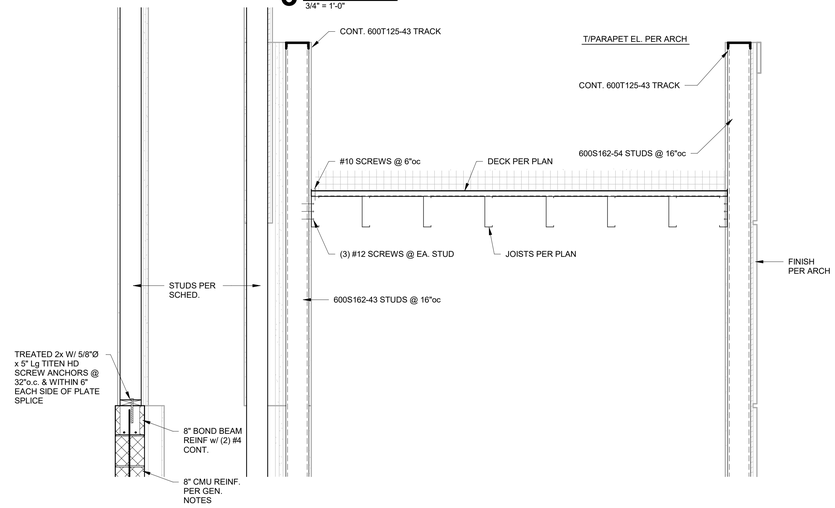



TYPICAL JOIST BEARING AT INTERIOR BEAM

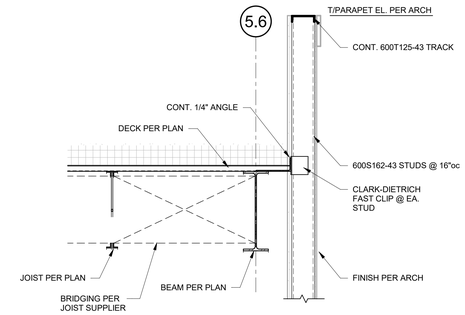
## 5 SECTION
3/4" = 1'-0"



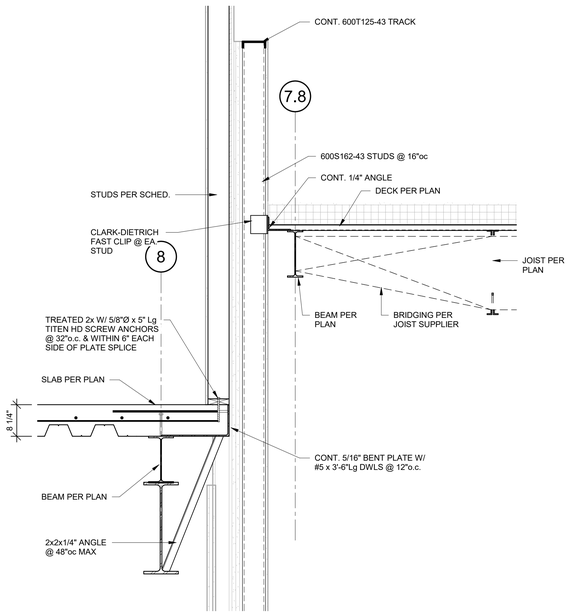

## 6 SECTION
3/4" = 1'-0"



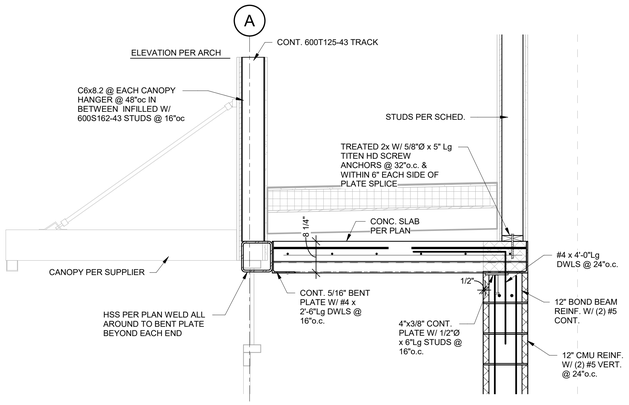

## 7 SECTION
3/4" = 1'-0"



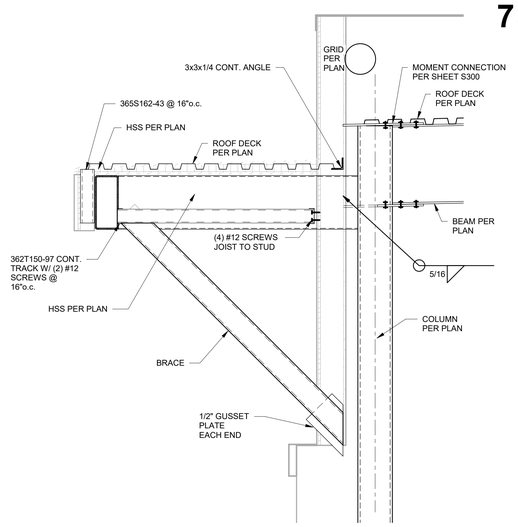

## 8 SECTION
3/4" = 1'-0"




## 9 SECTION
3/4" = 1'-0"




## 10 SECTION
3/4" = 1'-0"




## 11 SECTION
3/4" = 1'-0"

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
BUILDING DIVISION
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
BARRY A. WARNER
NUMBER
PE-2010026832
PROFESSIONAL ENGINEER
7-28-19

CLIENT
ARCHITECT
STRUCTURAL ENGINEER
CIVIL ENGINEER
MECHANICAL ENGINEER
PLUMBING ENGINEER
ELECTRICAL ENGINEER

CLIENT NAME
TR.i Architects
STRUCTURAL
CIVIL
ENGINEER
PLUMBING
ELECTRICAL

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9812 Manchester Road
St. Louis, Missouri 63119
T: 314-395-9750
F: 314-395-9751
www.triarchitects.com

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DATE: 7.29.19 (SHELL PACKAGE)

REVISIONS

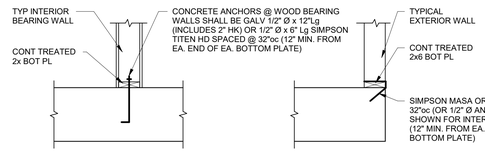
DWG BY: Author

TR.i PROJECT NO.: 18-046

SHEET NO.

S320

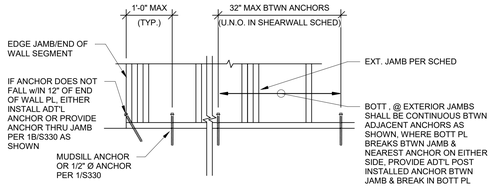
STEEL ROOF FRAMING SECTIONS




NOTES:
1. ALL BOTT PL's TO HAVE TWO ANCHORS MIN.
2. RE: SHEARWALL SCHED ON S004 FOR ANCHORS @ SHEARWALLS.
3. RE: 1A/S330 FOR DETAIL AT JAMB.
4. RE: 1B/S330 FOR DETAIL AT SHORT BOTT PL SEGMENTS/JAMBS (WHERE OCCURS).
5. CONTRACTOR SHALL IDENTIFY AND MARK RELATIVE P.T. TENDON LOCATIONS ON SLAB SO THAT TENDONS CAN BE AVOIDED DURING POST INSTALLED ANCHOR INSTALLATION.

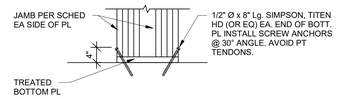
TYPICAL BOTT. PL CONNECTION TO CONCRETE

**1 SECTION** 3/4" = 1'-0"



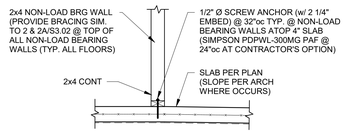

TYPICAL BOTT. PL CONNECTION TO CONCRETE AT EXTERIOR JAMBS & ENDS OF WALL

**1A SECTION** 3/4" = 1'-0"



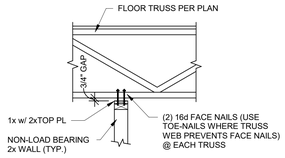

TYPICAL BOTT. PL CONNECTION TO CONCRETE AT SHORT PL SEGMENTS & JAMBS

**1B SECTION** 3/4" = 1'-0"



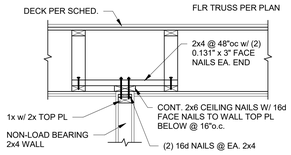

TYPICAL BOTT PL CONNECTION NON-LOAD BEARING WALLS

**2 SECTION** 3/4" = 1'-0"



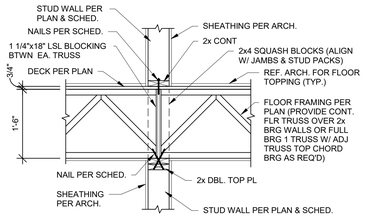

TYPICAL NON-LOAD BEARING WALL @ FLOOR TRUSS

**3 SECTION** 3/4" = 1'-0"

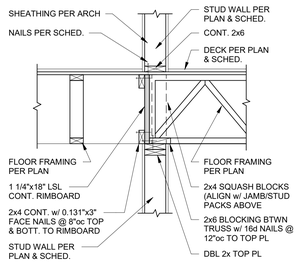



TYPICAL NON-LOAD BEARING WALL @ FLOOR TRUSS

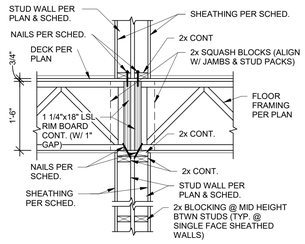
**3A SECTION** 3/4" = 1'-0"



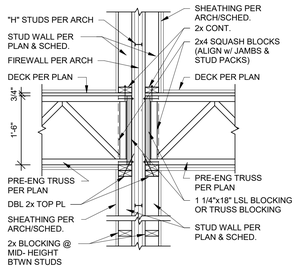

**4 SECTION** 3/4" = 1'-0"



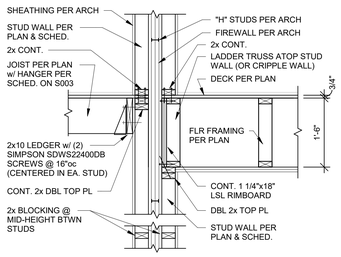

**4A SECTION** 3/4" = 1'-0"



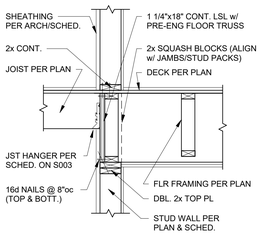

**5 SECTION** 3/4" = 1'-0"



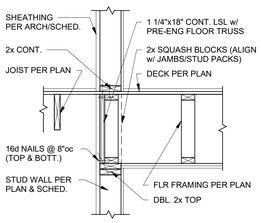

**6 SECTION** 3/4" = 1'-0"



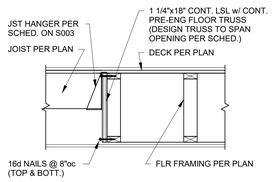

**6A SECTION** 3/4" = 1'-0"




**7 SECTION** 3/4" = 1'-0"

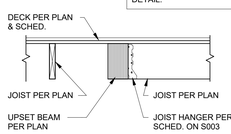



**7A SECTION** 3/4" = 1'-0"



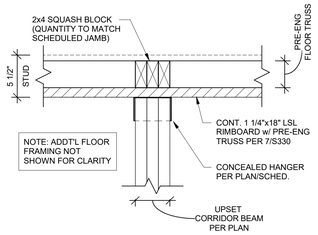

**7B SECTION** 3/4" = 1'-0"

NOTE: REFER TO 8A/S330 FOR END CONNECTION DETAIL.

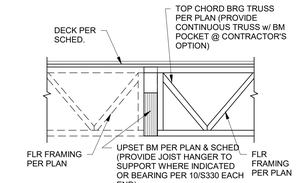



TYPICAL UPSET CORRIDOR BEAM

**8 SECTION** 3/4" = 1'-0"



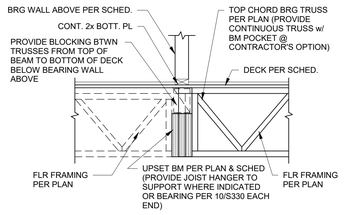

**8A SECTION** 1 1/2" = 1'-0"




NOTE: RE: 11/S330 WHERE UPSET BM IS FULL HEIGHT OF FLR TRUSS OR TOP CHORD BEARING TRUSS IS NOT USED.

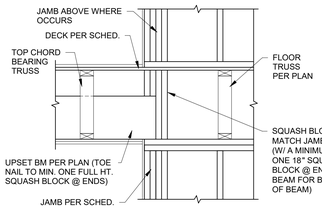
TYPICAL SHALLOW UPSET BEAM

**9 SECTION** 3/4" = 1'-0"



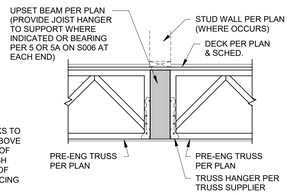

TYPICAL SHALLOW UPSET BEAM SUPPORTING BEARING WALL

**9A SECTION** 3/4" = 1'-0"



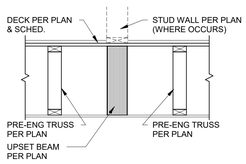

TYPICAL UPSET BEAM BEARING

**10 SECTION** 3/4" = 1'-0"

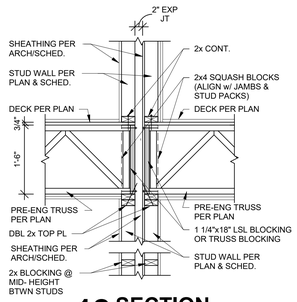



TYPICAL FULL-HEIGHT UPSET BEAM FRAMING

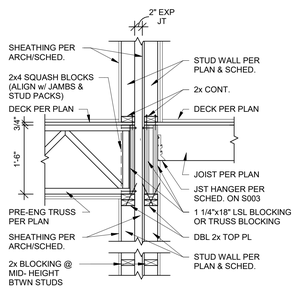
**11 SECTION** 3/4" = 1'-0"



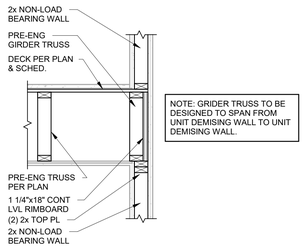

**11A SECTION** 3/4" = 1'-0"




**12 SECTION** 3/4" = 1'-0"

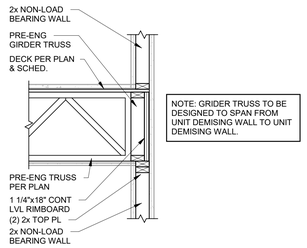



**12A SECTION** 3/4" = 1'-0"



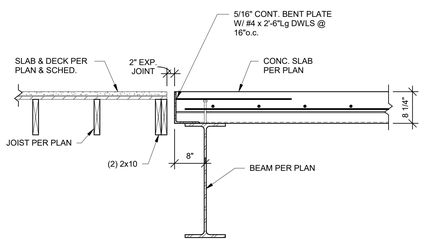

NOTE: GRIDER TRUSS TO BE DESIGNED TO SPAN FROM UNIT DEMISING WALL TO UNIT DEMISING WALL.

**13 SECTION** 3/4" = 1'-0"

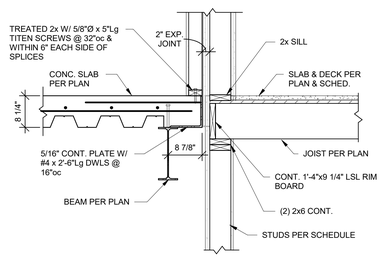



NOTE: GRIDER TRUSS TO BE DESIGNED TO SPAN FROM UNIT DEMISING WALL TO UNIT DEMISING WALL.

**13A SECTION** 3/4" = 1'-0"




**14 SECTION** 3/4" = 1'-0"




**15 SECTION** 3/4" = 1'-0"

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
ACCEPTANCE
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
Timothy Ashpaugh
BARNES
Architects
PE-2010026832
7-28-19
PROFESSIONAL ENGINEER

CLIENT
ARCHITECT
STRUCTURAL ENGINEER
CIVIL ENGINEER
MECHANICAL ENGINEER
PLUMBING ENGINEER
ELECTRICAL ENGINEER

CLIENT NAME
TR.i Architects
STRUCTURAL
CIVIL
ENGINEER
PLUMBING
ELECTRICAL

# Summit at West Pryor

TR.i Architects of the Possible


TR.i Architects
9812 Manchester Road
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www.triarchitects.com

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**DATE:** 7.29.19 (SHELL PACKAGE)

**REVISIONS** 2

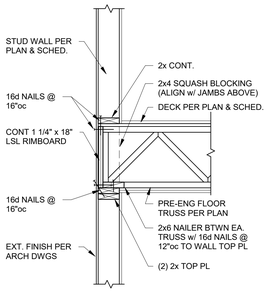
**DWG BY** Author

**TR.i PROJECT NO.** 18-046

**SHEET NO.**

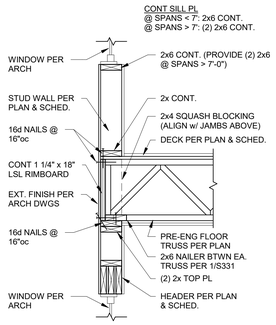
S330

**WOOD FLOOR FRAMING SECTIONS**

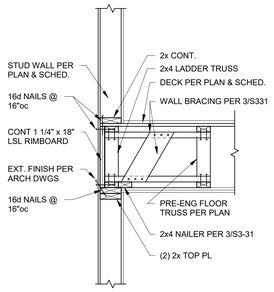



TYPICAL EXTERIOR WALL AT TRUSS BEARING

**1 SECTION** 3/4" = 1'-0"

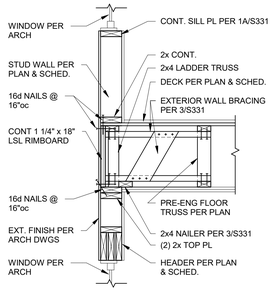



**1A SECTION** 3/4" = 1'-0"



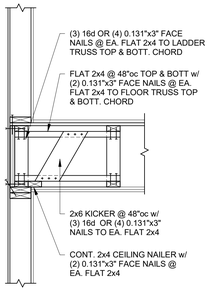

TYPICAL EXTERIOR WALL PARALLEL TO FLOOR TRUSSES

**2 SECTION** 3/4" = 1'-0"




**2A SECTION** 3/4" = 1'-0"

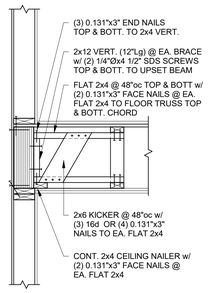
REFER TO 2/S331 FOR TYPICAL FLOOR FRAMING INFO NOT SHOWN HERE



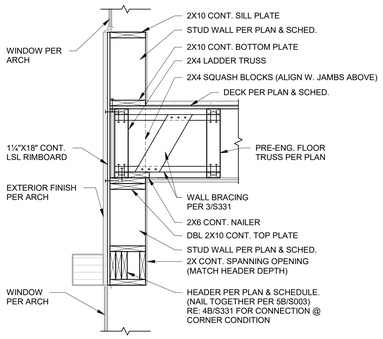

TYPICAL EXTERIOR WALL BRACING

**3 SECTION** 3/4" = 1'-0"

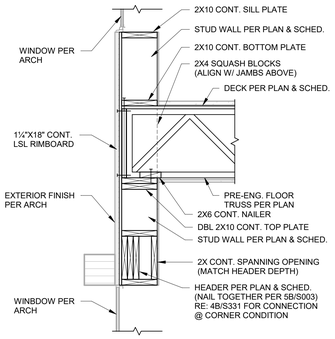
REFER TO 2/S331 FOR TYPICAL FLOOR FRAMING INFO NOT SHOWN HERE



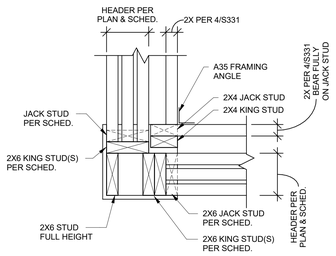

**3A SECTION** 3/4" = 1'-0"



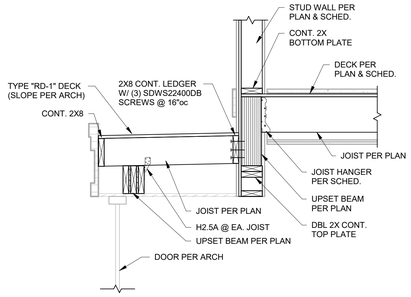

**4 SECTION** 3/4" = 1'-0"



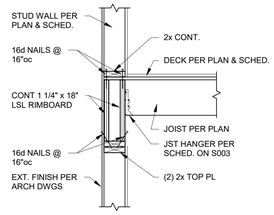

**4A SECTION** 3/4" = 1'-0"



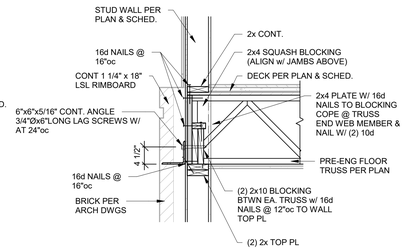

**4B SECTION** 1 1/2" = 1'-0"




**5 SECTION** 3/4" = 1'-0"




**6 SECTION** 3/4" = 1'-0"




**7 SECTION** 3/4" = 1'-0"

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
ACCEPTED FOR CITY OF
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
DAVID A. NAPIER
NUMBER
PE-2010026832
PROFESSIONAL ENGINEER
7-28-19

CLIENT
ARCHITECT
STRUCTURAL ENGINEER
CIVIL ENGINEER
MECHANICAL ENGINEER
PLUMBING ENGINEER
ELECTRICAL ENGINEER

CLIENT NAME
TR.i Architects
STRUCTURAL
CIVIL
ENGINEER
PLUMBING
ELECTRICAL

# Summit at West Pryor

TR,i Architects of the Possible

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St. Louis, Missouri 63119
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www.triarchitects.com
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**DATE:** 7.29.19 (SHELL PACKAGE)

**REVISIONS** 1

**DWG BY** Author

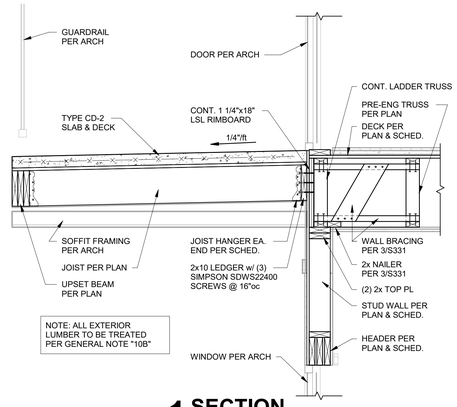
**TR,i PROJECT NO.** 18-046

**SHEET NO.**

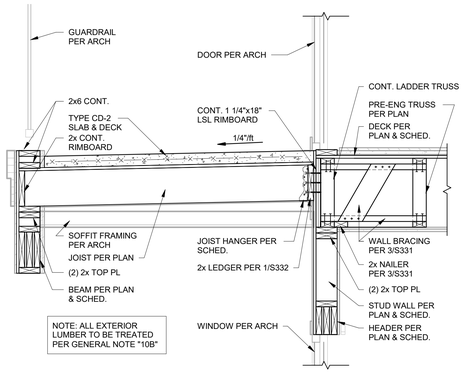
S331

**WOOD FLOOR FRAMING SECTIONS**

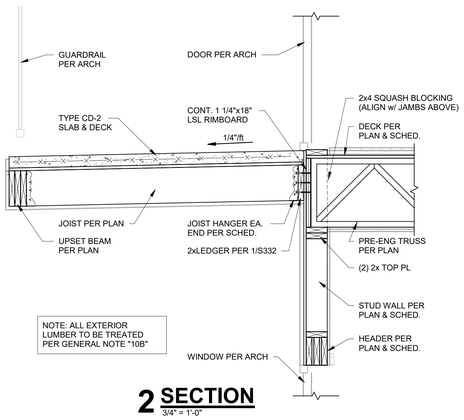
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
AND PERMITTED BY
LEE'S SUMMIT, MISSOURI
04/13/2020



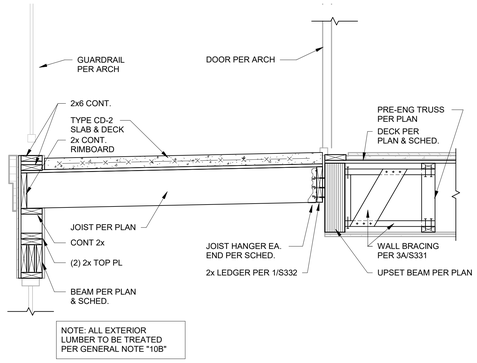

**1 SECTION** 3/4" = 1'-0"



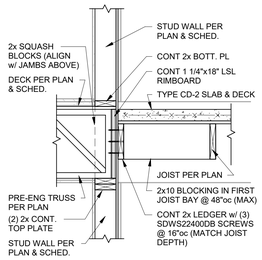

**1A SECTION** 3/4" = 1'-0"



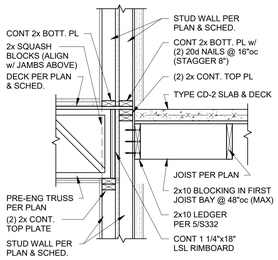

**2 SECTION** 3/4" = 1'-0"



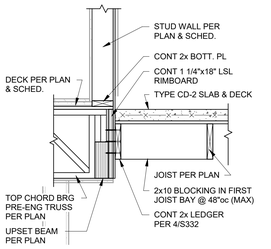

**3 SECTION** 3/4" = 1'-0"



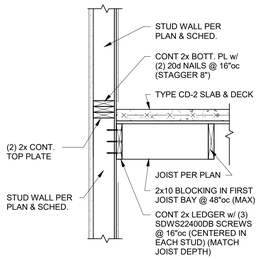

**4 SECTION** 3/4" = 1'-0"



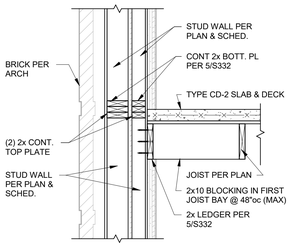

**4A SECTION** 3/4" = 1'-0"



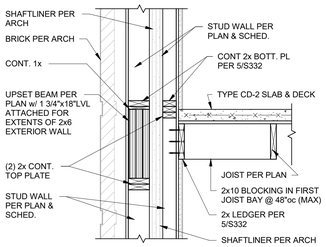

**4B SECTION** 3/4" = 1'-0"



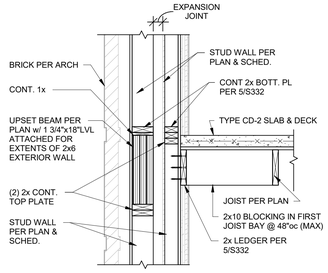

**5 SECTION** 3/4" = 1'-0"



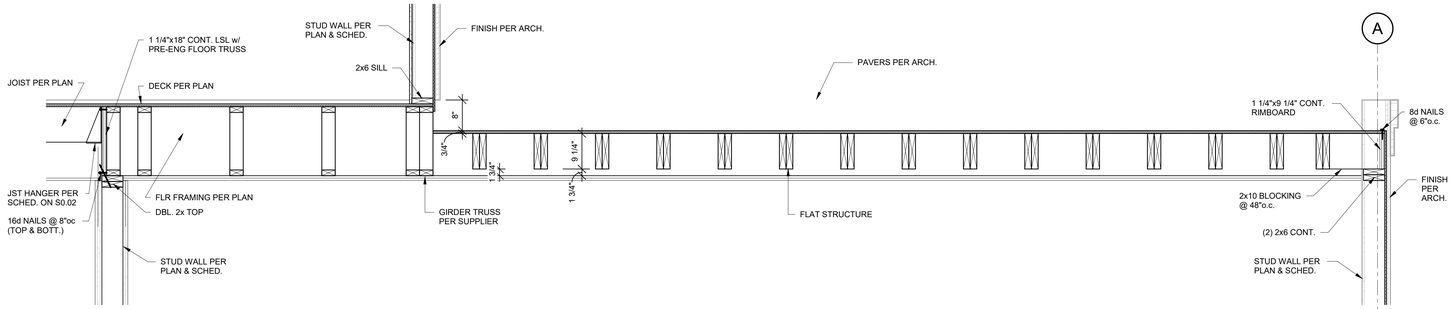

**6 SECTION** 3/4" = 1'-0"




**6A SECTION** 3/4" = 1'-0"




**6B SECTION** 3/4" = 1'-0"




**7 SECTION** 3/4" = 1'-0"

CLIENT
ARCHITECT
STRUCTURAL ENGINEER
CIVIL ENGINEER
MECHANICAL ENGINEER
PLUMBING ENGINEER
ELECTRICAL ENGINEER

CLIENT NAME
TR.i Architects
STRUCTURAL
CIVIL
ENGINEER
PLUMBING
ELECTRICAL

# Summit at West Pryor

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**DATE:** 7.29.19 (SHELL PACKAGE)

**REVISIONS** 2

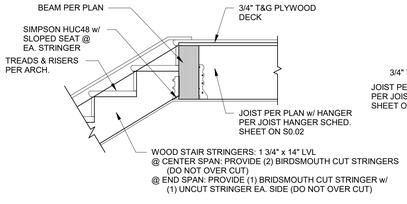
**DWG BY** Author

**TR.i PROJECT NO.** 18-046

**SHEET NO.**

S332

**WOOD FLOOR FRAMING SECTIONS**




TYPICAL STAIR AND STRINGER CONNECTION DETAIL

**1 SECTION**
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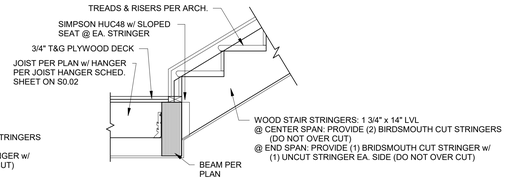
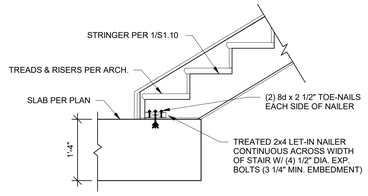
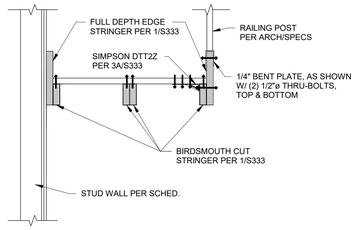


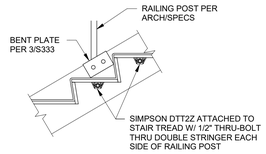




**2 SECTION**
3/4" = 1'-0"

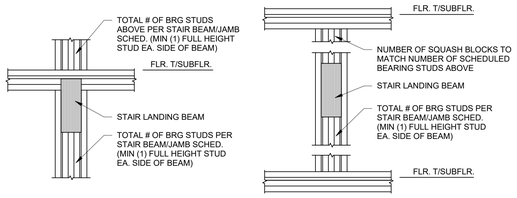



TYPICAL STAIR RUN TYPICAL THRU SECTION

**3 SECTION**
3/4" = 1'-0"

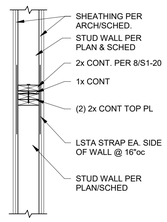



**3A SECTION**
3/4" = 1'-0"




TYPICAL STAIR BEAM JAMBS

**4 SECTION**
3/4" = 1'-0"

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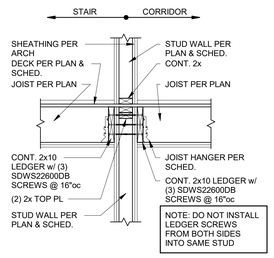
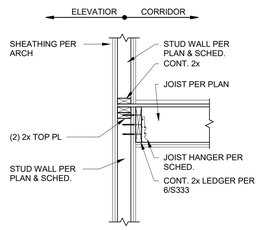
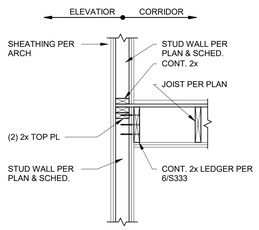
3/4" = 1'-0"



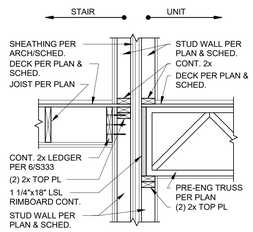

**6 SECTION**
3/4" = 1'-0"



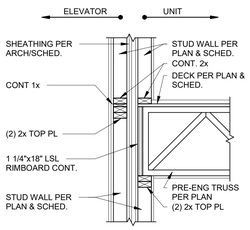

**6A SECTION**
3/4" = 1'-0"




**6B SECTION**
3/4" = 1'-0"




**7 SECTION**
3/4" = 1'-0"




**7A SECTION**
3/4" = 1'-0"

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
ACCEPTANCE BY CITY OF LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
Author
BARNHART
Architects
PE-2010026837
7-28-19
PROFESSIONAL ENGINEER

CLIENT
ARCHITECT
STRUCTURAL ENGINEER
CIVIL ENGINEER
MECHANICAL ENGINEER
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**REVISIONS** 4

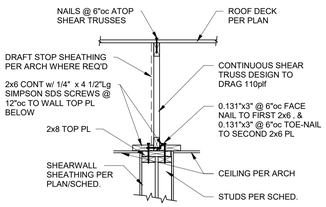
**DWG BY** Author

**TR.i PROJECT NO.** 18-046

**SHEET NO.**

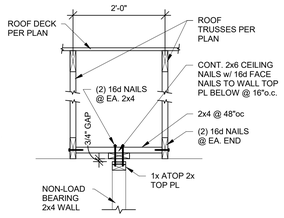
S333

**WOOD FLOOR FRAMING SECTIONS**



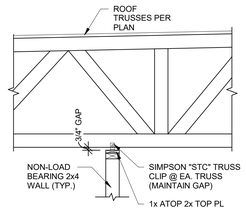

TYPICAL SHEAR TRUSS ATOP SHEARWALL

**1 SECTION** 3/4" = 1'-0"



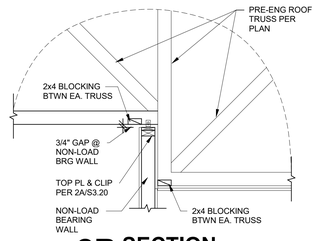

TYPICAL NON-LOAD BEARING WALL/TRUSS AT ROOF

**2 SECTION** 3/4" = 1'-0"

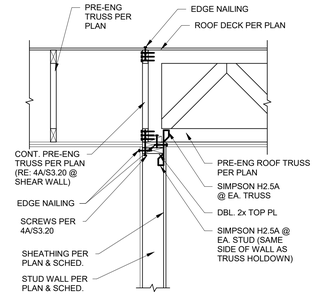



TYPICAL NON-LOAD BEARING WALL/TRUSS AT ROOF

**2A SECTION** 3/4" = 1'-0"

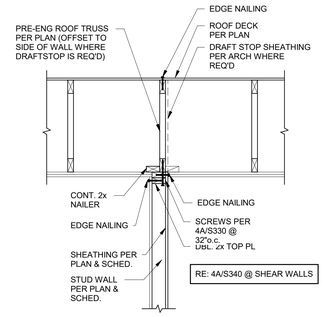



**2B SECTION** 3/4" = 1'-0"



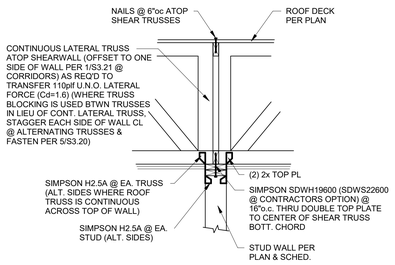

TYP. INTERSECTING ROOF TRUSSES @ BRG. WALL

**3 SECTION** 3/4" = 1'-0"



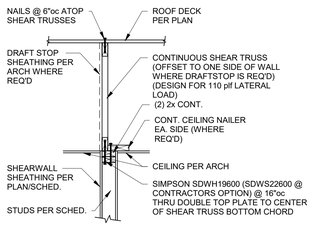

TYP. ROOF TRUSS PARALLEL W/ WALL

**3A SECTION** 3/4" = 1'-0"



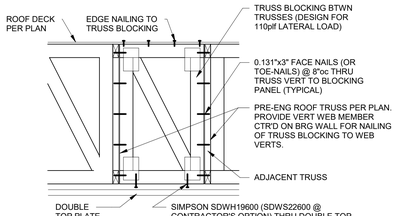

TYPICAL LATERAL TRUSS ATOP SHEARWALL PERPENDICULAR TO TRUSS SPAN

**4 SECTION** 3/4" = 1'-0"




TYPICAL LATERAL TRUSS ATOP PARALLEL SHEARWALL

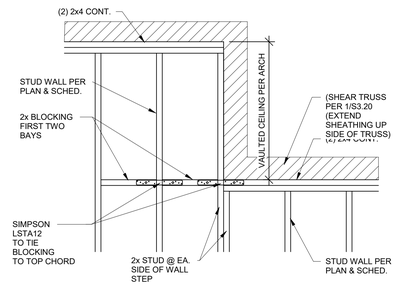
**4A SECTION** 3/4" = 1'-0"



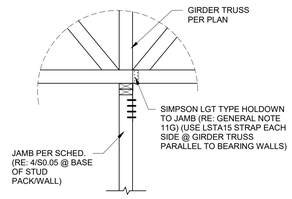

NOTES:
1. PROVIDE TRUSS BLOCKING @ ROOF LEVEL ATOP ALL SHEARWALLS WHEN A CONTINUOUS SHEAR/GIRDER TRUSS IS NOT USED.
2. TRUSS BLOCK MAY CONSIST OF A FRAMED WOOD STRUCTURAL PANEL OR PREFAB TRUSS BLOCK.
3. TRUSS MANUFACTURER TO DESIGN PREFAB TRUSS BLOCK.

TYPICAL ROOF TRUSS BLOCKING AT SHEARWALLS

**5 SECTION** 3/4" = 1'-0"

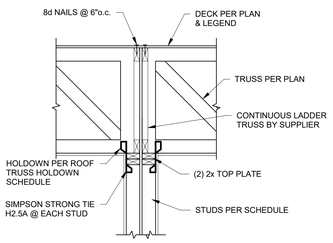



**6 SECTION** 3/4" = 1'-0"




TYPICAL DETAIL AT ROOF GIRDER TRUSS BEARING

**7 SECTION** 3/4" = 1'-0"

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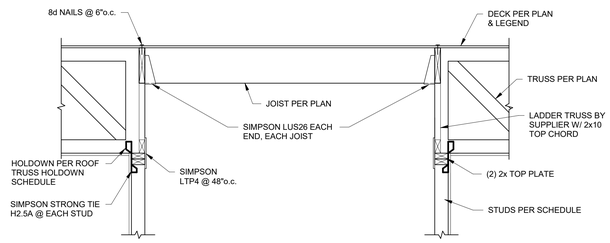
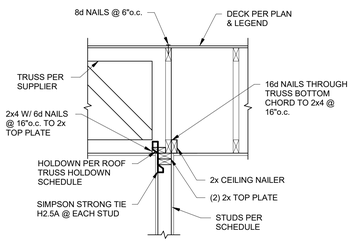



**9 SECTION** 3/4" = 1'-0"

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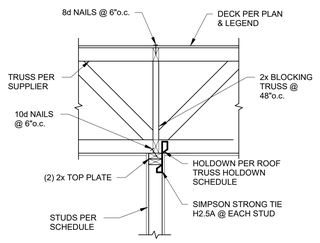


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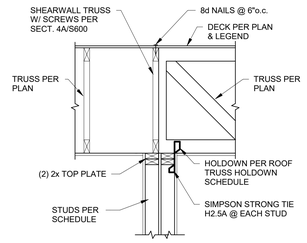


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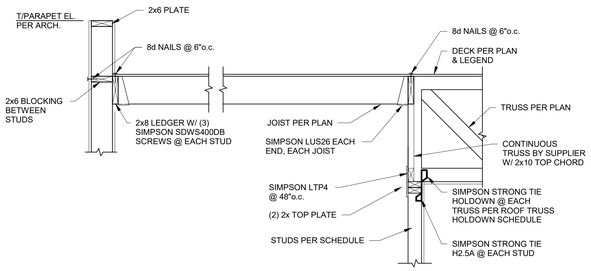


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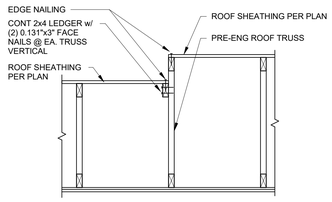


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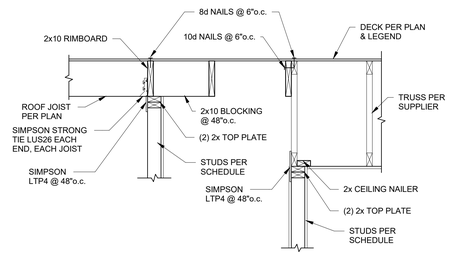
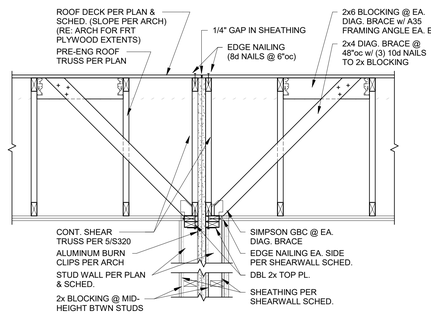
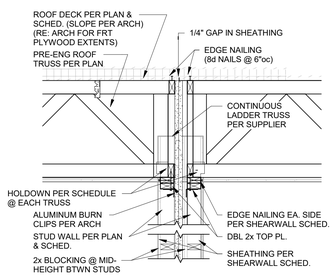



**15 SECTION** 3/4" = 1'-0"



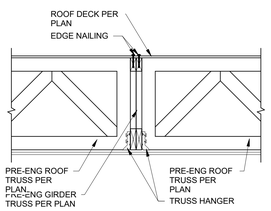

TYPICAL FIRE WALL AT ROOF

**16 SECTION** 3/4" = 1'-0"

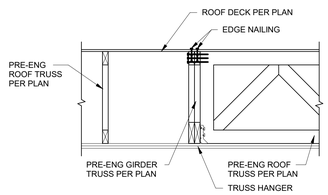



TYPICAL FIRE WALL AT ROOF

**17 SECTION** 3/4" = 1'-0"




**18 SECTION** 3/4" = 1'-0"




**19 SECTION** 3/4" = 1'-0"

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
ACCEPTANCE BY CITY OF LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
BRIAN W. PRYOR
NUMBER PE-2010026832
7-28-19
PROFESSIONAL ENGINEER

CLIENT
ARCHITECT
STRUCTURAL ENGINEER
CIVIL ENGINEER
MECHANICAL ENGINEER
PLUMBING ENGINEER
ELECTRICAL ENGINEER

CLIENT NAME
TR.i Architects
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Architects of the Possible


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**DATE:** 7.29.19 (SHELL PACKAGE)

**REVISIONS** 2

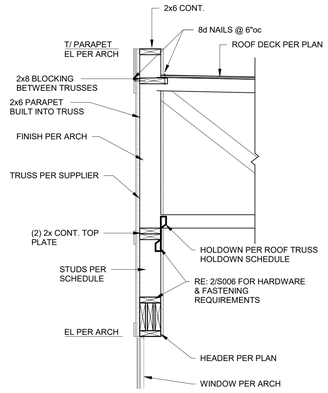
**DWG BY** Author

**TR.i PROJECT NO.** 18-046

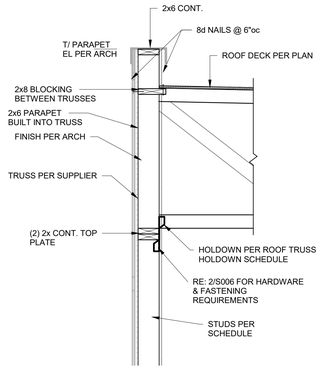
**SHEET NO.**

S340

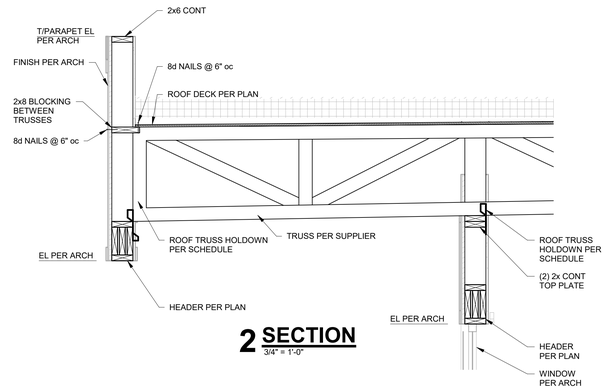
**WOOD ROOF FRAMING SECTIONS**



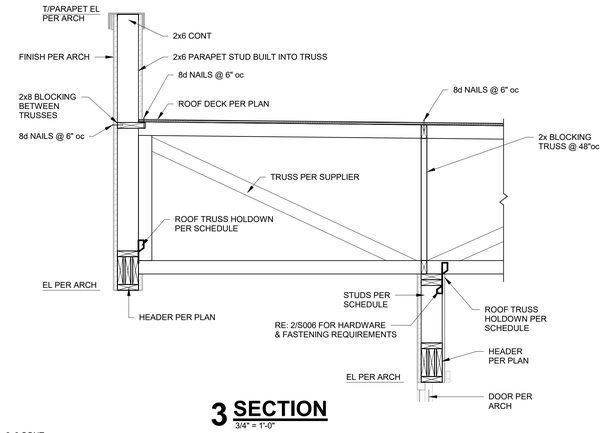

**1 SECTION**
3/4" = 1'-0"



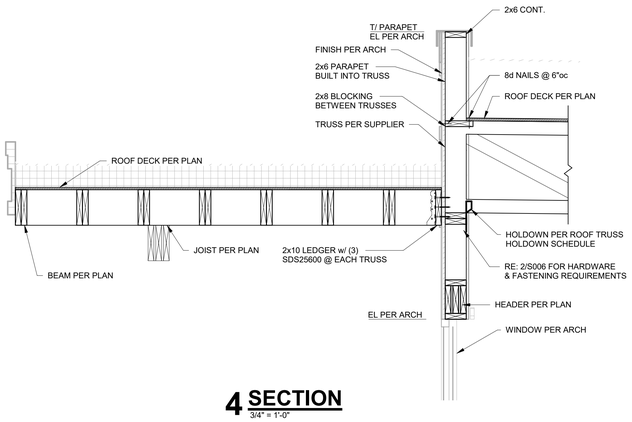

**1A SECTION**
3/4" = 1'-0"



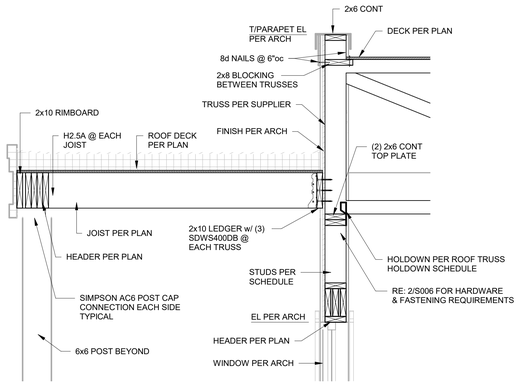

**2 SECTION**
3/4" = 1'-0"



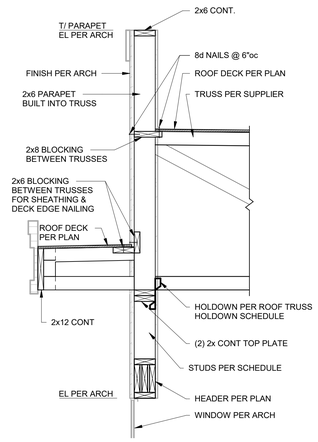

**3 SECTION**
3/4" = 1'-0"



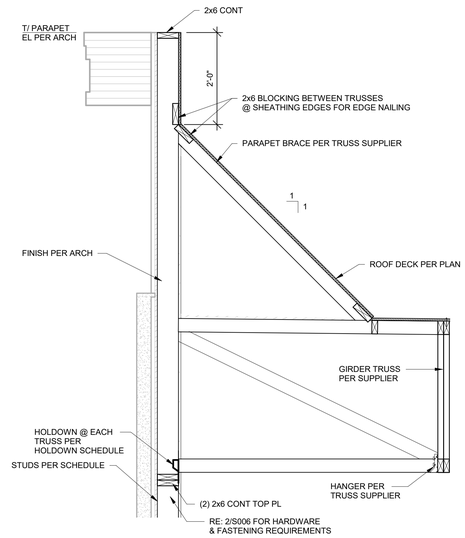

**4 SECTION**
3/4" = 1'-0"



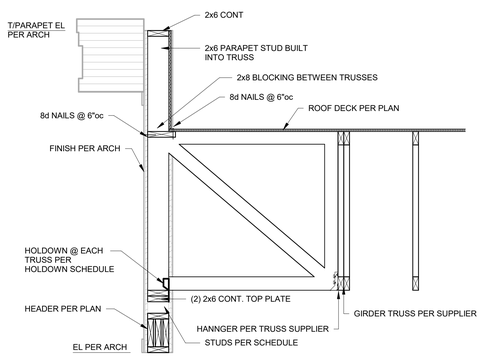

**5 SECTION**
3/4" = 1'-0"



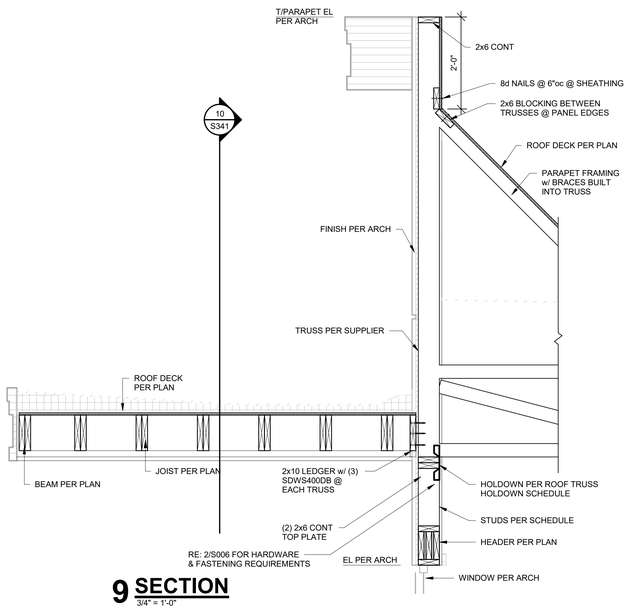

**6 SECTION**
3/4" = 1'-0"



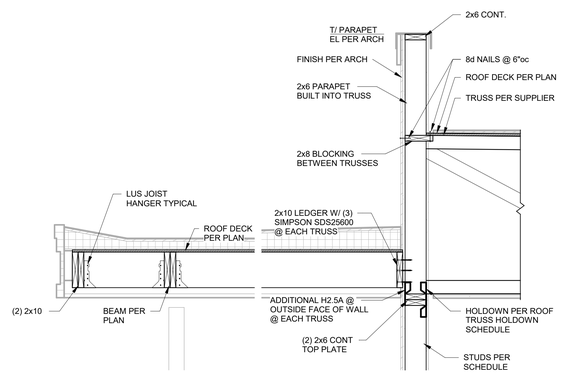

**7 SECTION**
3/4" = 1'-0"




**8 SECTION**
3/4" = 1'-0"




**9 SECTION**
3/4" = 1'-0"




**10 SECTION**
3/4" = 1'-0"

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
ACCEPTED BY THE CITY OF
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
JASON A. AMAN
Architect
PE-2010026837
7-28-19
PROFESSIONAL ENGINEER

| | |
|---|---|
| CLIENT | |
| ARCHITECT | |
| STRUCTURAL ENGINEER | |
| CIVIL ENGINEER | |
| MECHANICAL ENGINEER | |
| PLUMBING ENGINEER | |
| ELECTRICAL ENGINEER | |

| | |
|---|---|
| CLIENT NAME | |
| TR.i Architects | |
| STRUCTURAL | |
| CIVIL | |
| ENGINEER | |
| PLUMBING | |
| ELECTRICAL | |

# Summit at West Pryor

TR.i
Architects of the Possible®


TR.i Architects
9812 Manchester Road
St. Louis, Missouri 63119
T: 314-395-9750
F: 314-395-9751
www.triarchitects.com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**DATE:** 7.29.19 (SHELL PACKAGE)

**REVISIONS** 2

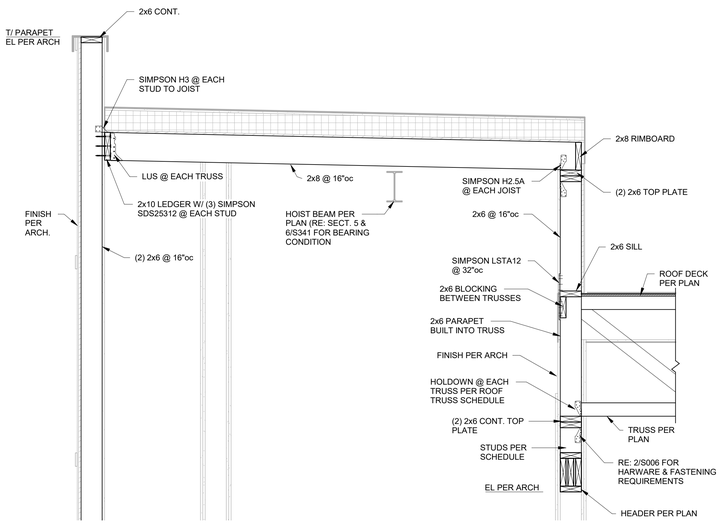
**DWG BY** Author

**TR.i PROJECT NO.** 18-046

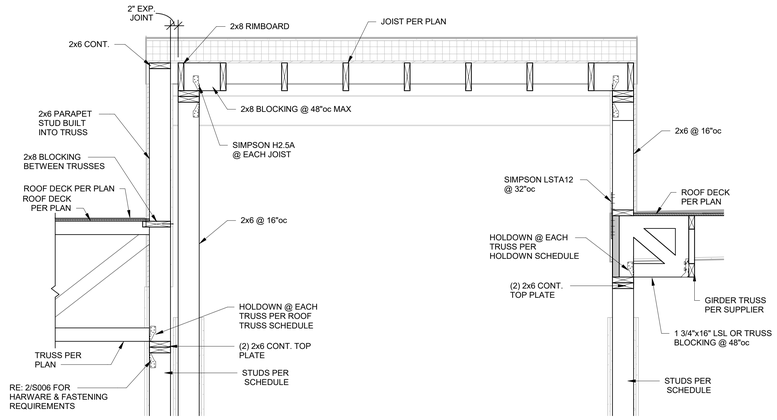
**SHEET NO.**

S341

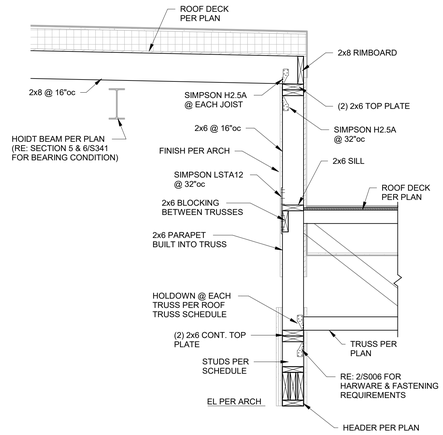
**WOOD ROOF FRAMING SECTIONS**



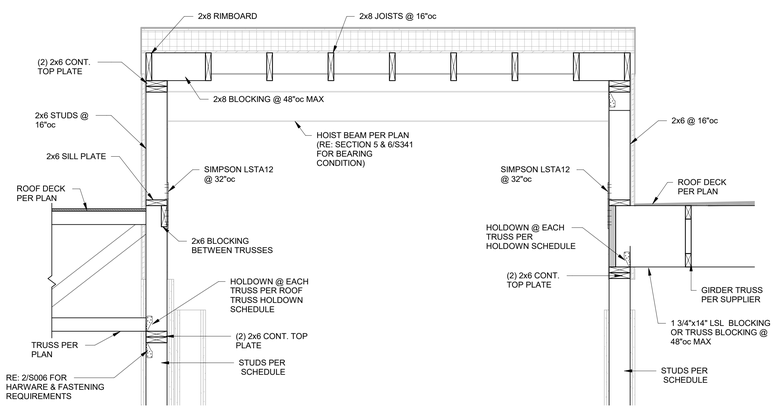

## 1 SECTION
3/4" = 1'-0"



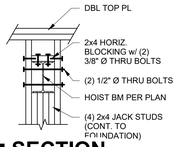

## 2 SECTION
3/4" = 1'-0"



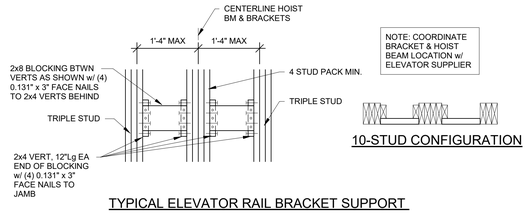

## 3 SECTION
3/4" = 1'-0"




## 4 SECTION
3/4" = 1'-0"

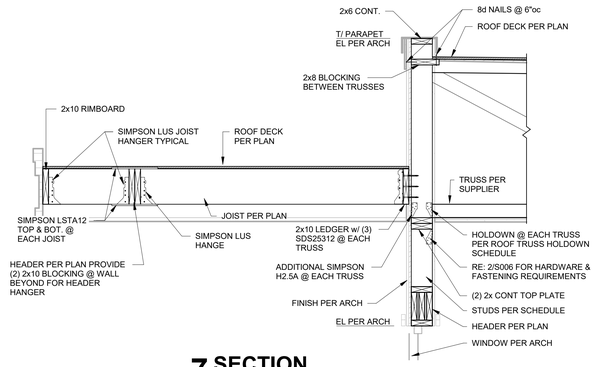



## 5 SECTION
3/4" = 1'-0"




TYPICAL ELEVATOR RAIL BRACKET SUPPORT

## 6 SECTION
3/4" = 1'-0"




## 7 SECTION
3/4" = 1'-0"

RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
ACCEPTANCE BY THE
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
CLINT A. BARNHART
NUMBER
PE-2010026832
PROFESSIONAL ENGINEER
7-28-19

CLIENT
ARCHITECT
STRUCTURAL ENGINEER
CIVIL ENGINEER
MECHANICAL ENGINEER
PLUMBING ENGINEER
ELECTRICAL ENGINEER

CLIENT NAME
TR.i Architects
STRUCTURAL
CIVIL
ENGINEER
PLUMBING
ELECTRICAL

# Summit at West Pryor

TR.i
Architects of the Possible®

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9812 Manchester Road
St. Louis, Missouri 63119
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F: 314-395-9751
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**DATE:** 7.29.19 (SHELL PACKAGE)

**REVISIONS** 1

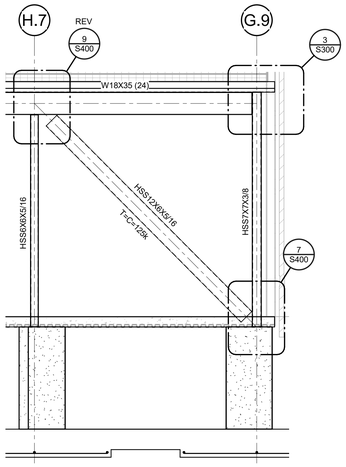
**DWG BY** Author

**TR.i PROJECT NO.** 18-046

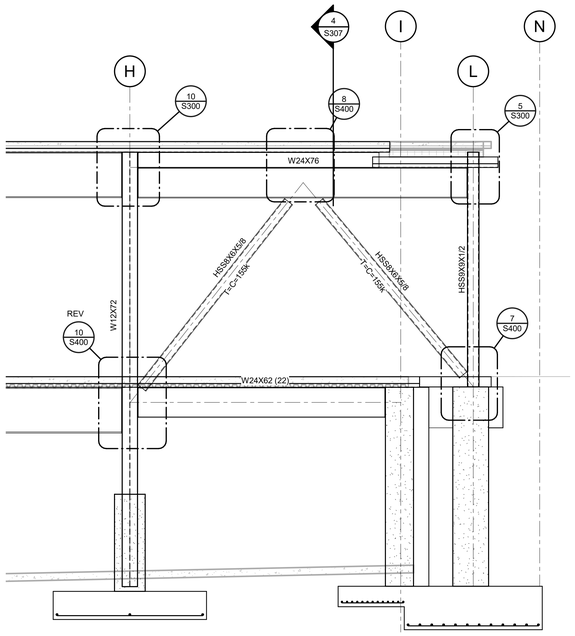
**SHEET NO.**

S342

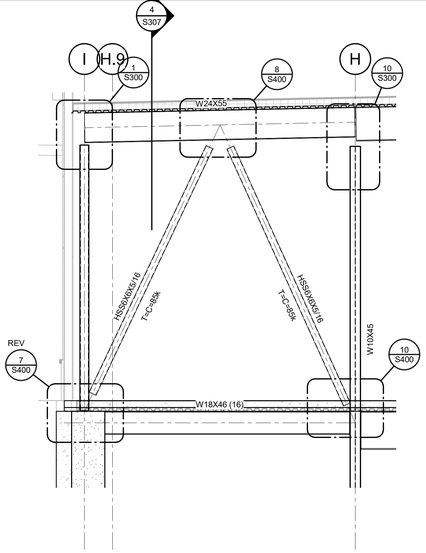
**WOOD ROOF FRAMING SECTIONS**



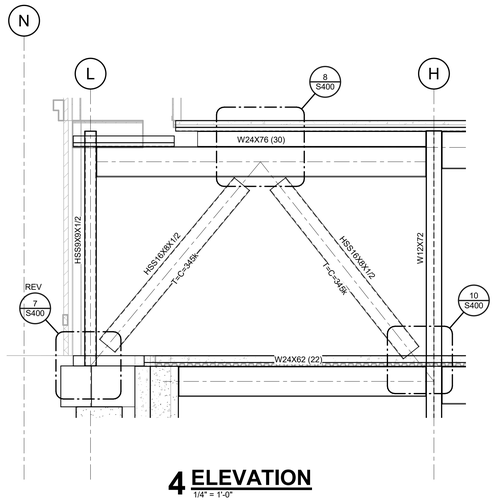

## 1 ELEVATION
1/4" = 1'-0"



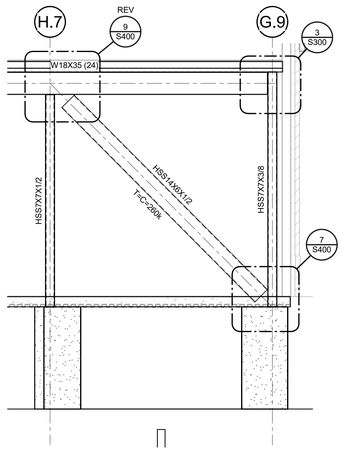

## 2 ELEVATION
1/4" = 1'-0"



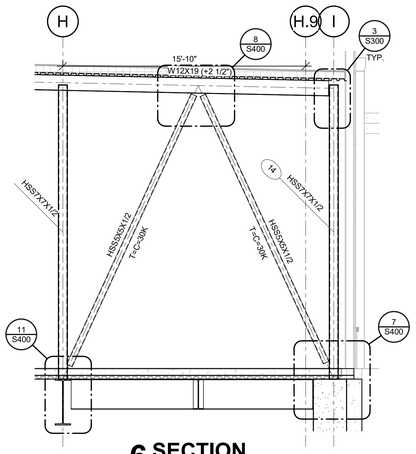

## 3 ELEVATION
1/4" = 1'-0"



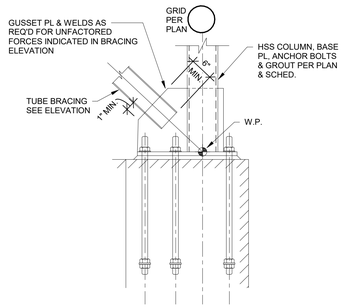

## 4 ELEVATION
1/4" = 1'-0"



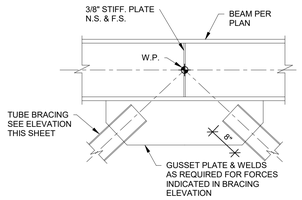

## 5 ELEVATION
1/4" = 1'-0"



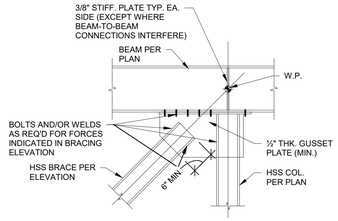

## 6 SECTION
1/4" = 1'-0"



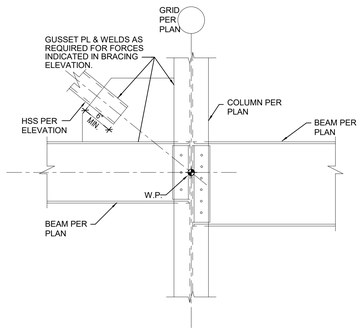

## 7 DETAIL
3/4" = 1'-0"



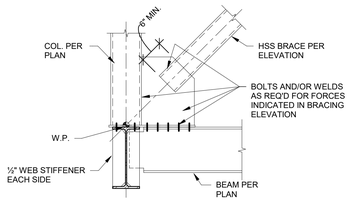

## 8 SECTION
3/4" = 1'-0"




## 9 DETAIL
3/4" = 1'-0"




## 10 DETAIL
3/4" = 1'-0"




## 11 DETAIL
3/4" = 1'-0"

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
ACCEPTANCE BY CITY OF LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
BARRY A. WARNER
NUMBER
PE-2001026832
7-28-19
PROFESSIONAL ENGINEER

| | |
|---|---|
| CLIENT | |
| ARCHITECT | |
| STRUCTURAL ENGINEER | |
| CIVIL ENGINEER | |
| MECHANICAL ENGINEER | |
| PLUMBING ENGINEER | |
| ELECTRICAL ENGINEER | |

| | |
|---|---|
| CLIENT NAME | |
| TR.i Architects | |
| STRUCTURAL | |
| CIVIL | |
| ENGINEER | |
| PLUMBING | |
| ELECTRICAL | |

# Summit at West Pryor

TR.i Architects of the Possible


TR.i Architects
9812 Manchester Road
St. Louis, Missouri 63119
T: 314-395-9750
F: 314-395-9751
www.triarchitects.com

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**DATE:** 7.29.19 (SHELL PACKAGE)

**REVISIONS** 2

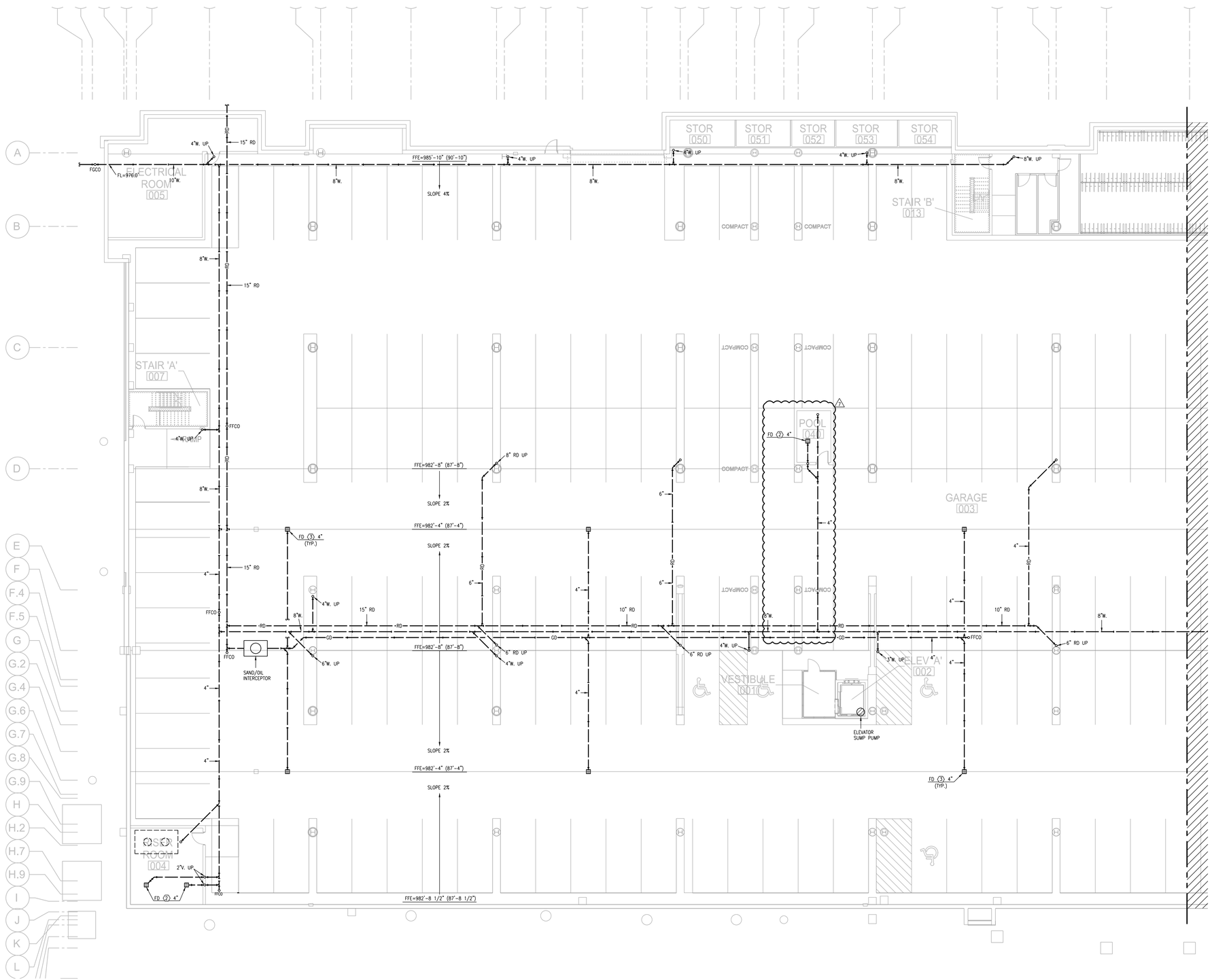
**DWG BY** Author

**TR.i PROJECT NO.** 18-046

**SHEET NO.**

S400

**ELEVATIONS**



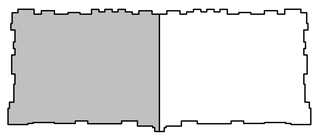

1 **PARTIAL GARAGE PLAN**
3/32"=1'-0" BELOW-GRADE PLUMBING
NORTH

NOTES:

1. ALL DRAIN, WASTE AND VENT PIPING IS 2" UNLESS NOTED OTHERWISE.
2. ALL BELOW SLAB SUPPLY PIPING SHALL BE PEX WITH NO JOINTS. DHW BELOW SLAB TO BE INSULATED TO R-3.
3. DHW PIPING 3/4" AND LARGER TO BE INSULATED TO R-3 MINIMUM
4. ALL SUPPLY PIPING IS 1/2" UNLESS NOTED OTHERWISE.
5. CONNECT ALL APPLIANCES OR EQUIPMENT PER MANUFACTURERS INSTRUCTIONS.
6. ALL PLUMBING VENTS SHALL BE 10 FEET FROM OPENINGS OR INTAKE.
7. THERE SHALL BE NO PVC WITHIN RETURN AIR PLENUMS.
8. ALL FIXTURES WITH QUICK CLOSING VALVES SHALL HAVE FIXTURE OR BLADDER TYPE SHOCK SUPPRESSORS FOR EACH CHASE.
9. SEE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS.
10. REFER TO THE ARCHITECTURAL DRAWINGS FOR FLOOR DRAIN LOCATIONS AND FLOOR SLOPES IF PRESENT.
11. ROUTE DRAIN PIPING FROM WATER HEATERS, AIR HANDLERS OR EQUIPMENT TO FLOOR DRAINS. PROVIDE PROPER TRAPS.
12. ROUTE NO PIPING OVER ELECTRICAL EQUIPMENT.
13. ALL WASTE AND ROOF DRAIN STACKS SHALL HAVE CLEANOUTS AT THE BASE.

LEGEND:

1. 3"V. UP TO RISER FOR FUTURE CONNECTION.
2. 6" UP TO DOWNSPOUT CONNECTION.
3. DOWNSPOUT CONNECTION. 6" DOWN TO GARAGE.
4. PENETRATE BEAM PER STRUCTURAL DETAIL.



**KEY PLAN**
NO SCALE
NORTH


LS&A Latimer Sommers & Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lsapa@lsapa.com
LSA PROJECT NO. 1904023


RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
Date: 01/13/2020

STATE OF MISSOURI
RICHARD R. BEAUDMORE
NUMBER
PROFESSIONAL ENGINEER
1-24-20

| | |
|---|---|
| ARCHITECT | TR,i ARCHITECTS |
| STRUCTURAL ENGINEER | BOB D CAMPBELL & COMPANY |
| CIVIL ENGINEER | RENAISSANCE INFRASTRUCTURE CONSULTING |
| GENERAL CONTRACTOR | BRINKMANN CONSTRUCTORS |
| MECHANICAL ENGINEER | LATIMER SOMMERS & ASSOCIATES |
| PLUMBING ENGINEER | LATIMER SOMMERS & ASSOCIATES |
| ELECTRICAL ENGINEER | LATIMER SOMMERS & ASSOCIATES |

Pearl COMPANIES

# Summit at West Pryor


TR,i ARCHITECTS
TR,i Architects
9812 Manchester Road
St. Louis, Missouri 63119
T: 314-395-9750
F: 314-395-9751
www.traarchitects.com

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DATE: 09.12.19

REVISIONS

| | | |
|---|---|---|
| 1 | PERMIT COMMENTS | 09.06.19 |
| 2 | REVISION 2 | 1.24.2020 |

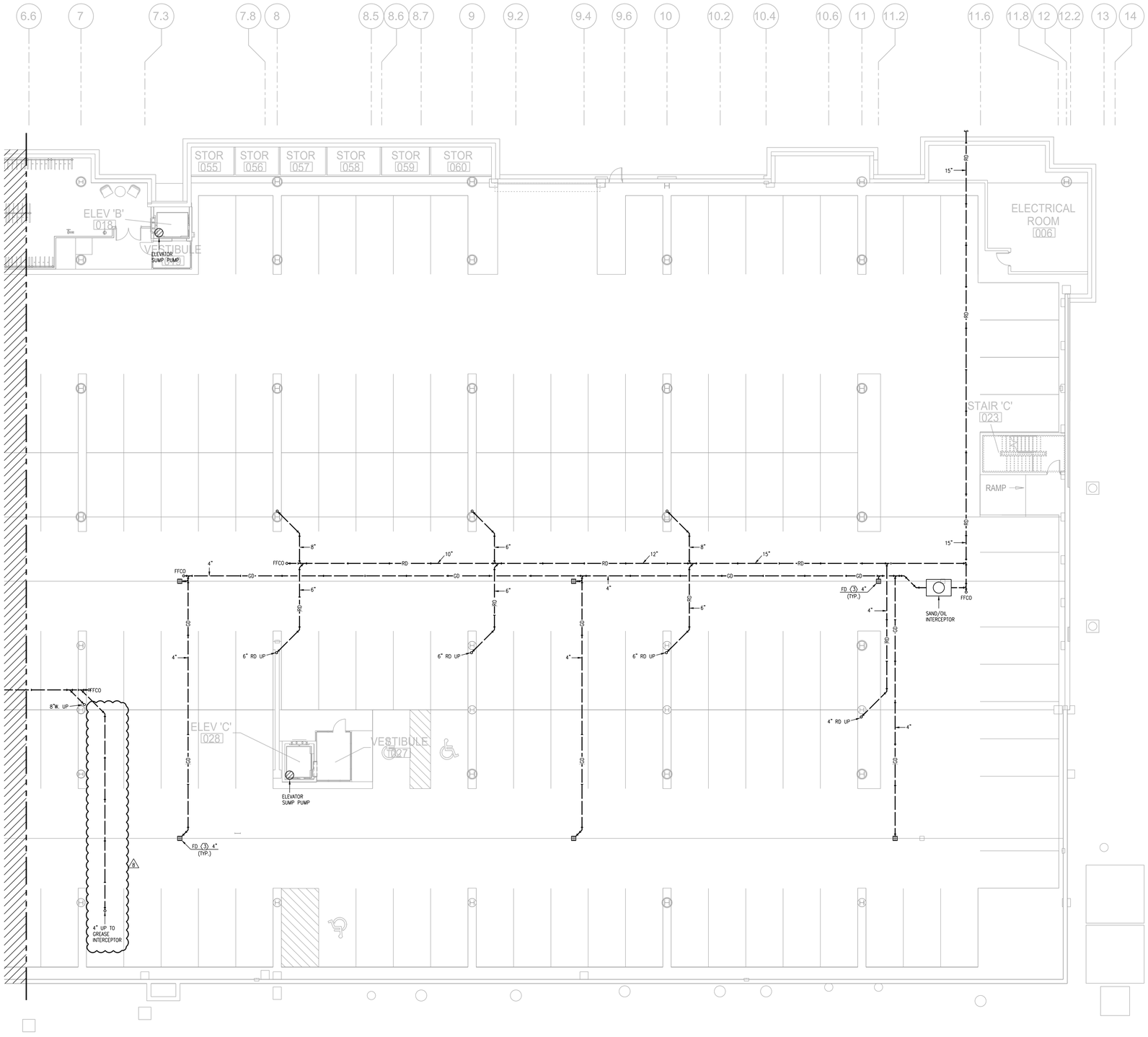
DWG BY RRB

TR,i PROJECT NO. 18-046

SHEET NO.

P101

PARTIAL GARAGE PLAN - BELOW-GRADE PLUMBING



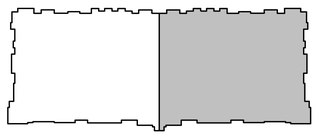

1 **PARTIAL GARAGE PLAN**
3/32"=1'-0" BELOW-GRADE PLUMBING
NORTH

NOTES:

1. ALL DRAIN, WASTE AND VENT PIPING IS 2" UNLESS NOTED OTHERWISE.
2. ALL BELOW SLAB SUPPLY PIPING SHALL BE PEX WITH NO JOINTS. DHW BELOW SLAB TO BE INSULATED TO R-3.
3. DHW PIPING 3/4" AND LARGER TO BE INSULATED TO R-3 MINIMUM
4. ALL SUPPLY PIPING IS 1/2" UNLESS NOTED OTHERWISE.
5. CONNECT ALL APPLIANCES OR EQUIPMENT PER MANUFACTURERS INSTRUCTIONS.
6. ALL PLUMBING VENTS SHALL BE 10 FEET FROM OPENINGS OR INTAKE.
7. THERE SHALL BE NO PVC WITHIN RETURN AIR PLENUMS.
8. ALL FIXTURES WITH QUICK CLOSING VALVES SHALL HAVE FIXTURE OR BLADDER TYPE SHOCK SUPPRESSORS FOR EACH CHASE.
9. SEE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS.
10. REFER TO THE ARCHITECTURAL DRAWINGS FOR FLOOR DRAIN LOCATIONS AND FLOOR SLOPES IF PRESENT.
11. ROUTE DRAIN PIPING FROM WATER HEATERS, AIR HANDLERS OR EQUIPMENT TO FLOOR DRAINS. PROVIDE PROPER TRAPS.
12. ROUTE NO PIPING OVER ELECTRICAL EQUIPMENT.
13. ALL WASTE AND ROOF DRAIN STACKS SHALL HAVE CLEANOUTS AT THE BASE.

LEGEND:

1. 3"V. UP TO RISER FOR FUTURE CONNECTION.
2. 6" UP TO DOWNSPOUT CONNECTION.
3. DOWNSPOUT CONNECTION. 6" DOWN TO GARAGE.
4. PENETRATE BEAM PER STRUCTURAL DETAIL.



**KEY PLAN**
NO SCALE
NORTH

LS&A Latimer Sommers & Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lsapa@lsapa.com
LSA PROJECT NO. 1904023

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER
4-3-20

| | |
|---|---|
| TR.i ARCHITECTS | ARCHITECT |
| BOB D CAMPBELL & COMPANY | STRUCTURAL ENGINEER |
| RENAISSANCE INFRASTRUCTURE CONSULTING | CIVIL ENGINEER |
| BRINKMANN CONSTRUCTORS | GENERAL CONTRACTOR |
| LATIMER SOMMERS & ASSOCIATES | MECHANICAL ENGINEER |
| LATIMER SOMMERS & ASSOCIATES | PLUMBING ENGINEER |
| LATIMER SOMMERS & ASSOCIATES | ELECTRICAL ENGINEER |

Pearl COMPANIES

# Summit at West Pryor

TR.i ARCHITECTS

TR.i Architects
9812 Manchester Road
St. Louis, Missouri 63119
T: 314-395-9750
F: 314-395-9751
www.triarchitects.com
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**DATE:** 09.12.19

**REVISIONS** 2

| | | |
|---|---|---|
| 1 | PERMIT COMMENTS | 09.06.19 |
| 2 | REVISION 3 | 04.03.20 |

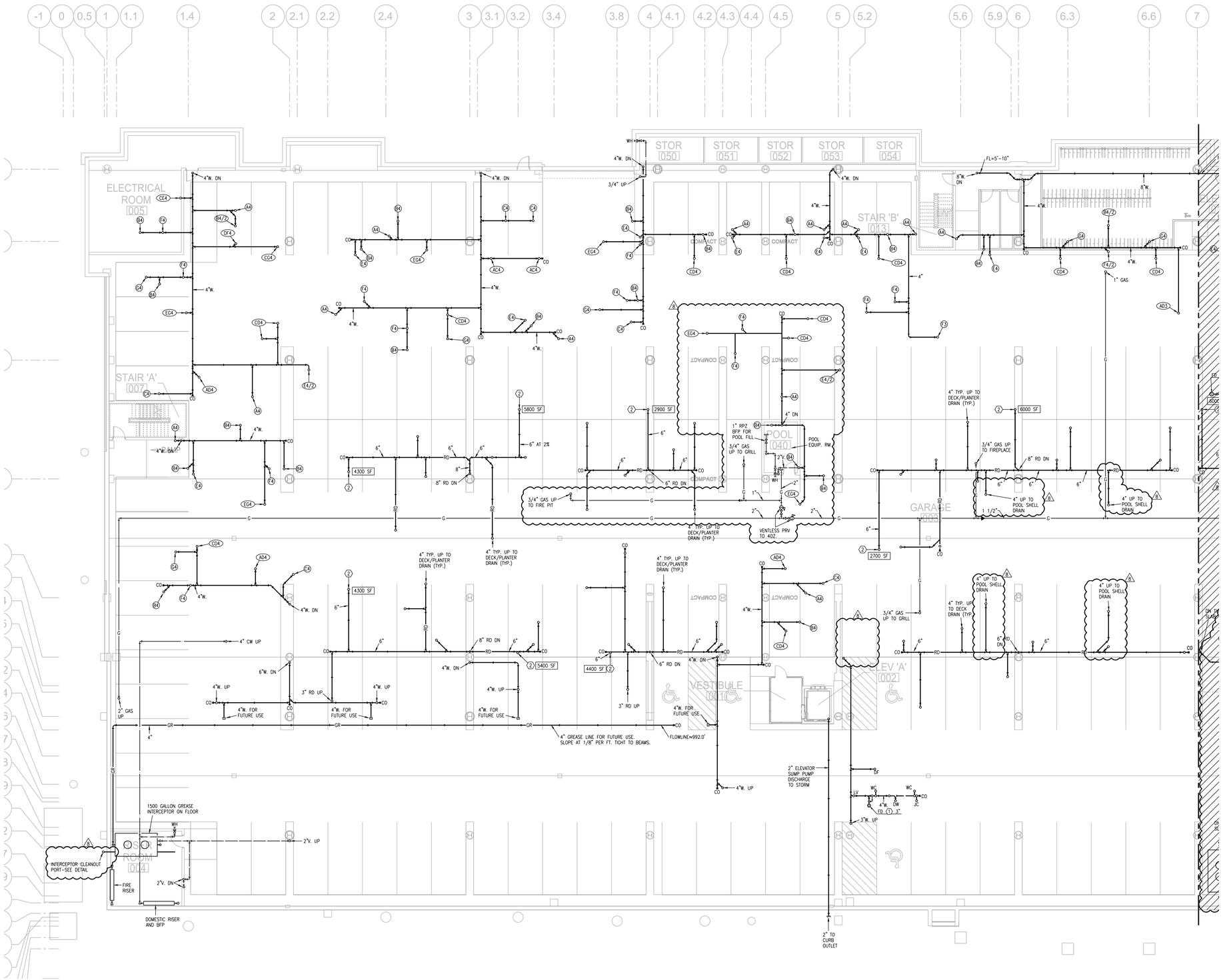
**DWG BY** RRB

**TR.i PROJECT NO.** 18-046

**SHEET NO.**

P102

**PARTIAL GARAGE PLAN - BELOW-GRADE PLUMBING**




## 1 PARTIAL GARAGE PLAN

3/32"=1'-0" PLUMBING

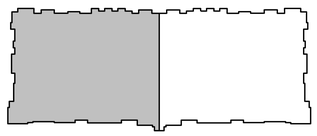
NORTH

NOTES:

1. ALL DRAIN, WASTE AND VENT PIPING IS 2" UNLESS NOTED OTHERWISE.
2. ALL BELOW SLAB SUPPLY PIPING SHALL BE PEX WITH NO JOINTS. DHW BELOW SLAB TO BE INSULATED TO R-3.
3. DHW PIPING 3/4" AND LARGER TO BE INSULATED TO R-3 MINIMUM
4. ALL SUPPLY PIPING IS 1/2" UNLESS NOTED OTHERWISE.
5. CONNECT ALL APPLIANCES OR EQUIPMENT PER MANUFACTURERS INSTRUCTIONS.
6. ALL PLUMBING VENTS SHALL BE 10 FEET FROM OPENINGS OR INTAKE.
7. THERE SHALL BE NO PVC WITHIN RETURN AIR PLENUMS.
8. ALL FIXTURES WITH QUICK CLOSING VALVES SHALL HAVE FIXTURE OR BLADDER TYPE SHOCK SUPPRESSORS FOR EACH CHASE.
9. SEE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS.
10. REFER TO THE ARCHITECTURAL DRAWINGS FOR FLOOR DRAIN LOCATIONS AND FLOOR SLOPES IF PRESENT.
11. ROUTE DRAIN PIPING FROM WATER HEATERS, AIR HANDLERS OR EQUIPMENT TO FLOOR DRAINS. PROVIDE PROPER TRAPS.
12. ROUTE NO PIPING OVER ELECTRICAL EQUIPMENT.
13. ALL WASTE AND ROOF DRAIN STACKS SHALL HAVE CLEANOUTS AT THE BASE.

LEGEND:

1. 3"V. UP TO RISER FOR FUTURE CONNECTION.
2. 6" UP TO DOWNSPOUT CONNECTION.
3. DOWNSPOUT CONNECTION. 6" DOWN TO GARAGE.
4. PENETRATE BEAM PER STRUCTURAL DETAIL.



KEY PLAN

NO SCALE

NORTH

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER
4-3-20

| | |
|---|---|
| ARCHITECT | TR.i ARCHITECTS |
| STRUCTURAL ENGINEER | BOB D CAMPBELL & COMPANY |
| CIVIL ENGINEER | RENAISSANCE INFRASTRUCTURE CONSULTING |
| GENERAL CONTRACTOR | BRINKMANN CONSTRUCTORS |
| MECHANICAL ENGINEER | LATIMER SOMMERS & ASSOCIATES |
| PLUMBING ENGINEER | LATIMER SOMMERS & ASSOCIATES |
| ELECTRICAL ENGINEER | LATIMER SOMMERS & ASSOCIATES |

Pearl COMPANIES

# Summit at West Pryor

TR.i ARCHITECTS


TR.i Architects
9812 Manchester Road
St. Louis, Missouri 63119
T: 314-395-9750
F: 314-395-9751
www.triarchitects.com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DATE: 09.12.19

REVISIONS

| | | |
|---|---|---|
| 1 | PERMIT COMMENTS | 09.06.19 |
| 2 | REVISION 1 | 12.20.19 |
| 3 | REVISION 2 | 1.24.20 |
| 4 | REVISION 3 | 04.03.20 |

| | |
|---|---|
| DWG BY | RRB |
| TR.i PROJECT NO. | 18-046 |

SHEET NO.

P103

PARTIAL GARAGE PLAN - PLUMBING


LS&A Latimer Sommers & Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lsapa@lsapa.com


LSA PROJECT NO. 1904023

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER
4-3-20

| | |
|---|---|
| TR.i ARCHITECTS | ARCHITECT |
| BOB D CAMPBELL & COMPANY | STRUCTURAL ENGINEER |
| RENAISSANCE INFRASTRUCTURE CONSULTING | CIVIL ENGINEER |
| BRINKMANN CONSTRUCTORS | GENERAL CONTRACTOR |
| LATIMER SOMMERS & ASSOCIATES | MECHANICAL ENGINEER |
| LATIMER SOMMERS & ASSOCIATES | PLUMBING ENGINEER |
| LATIMER SOMMERS & ASSOCIATES | ELECTRICAL ENGINEER |

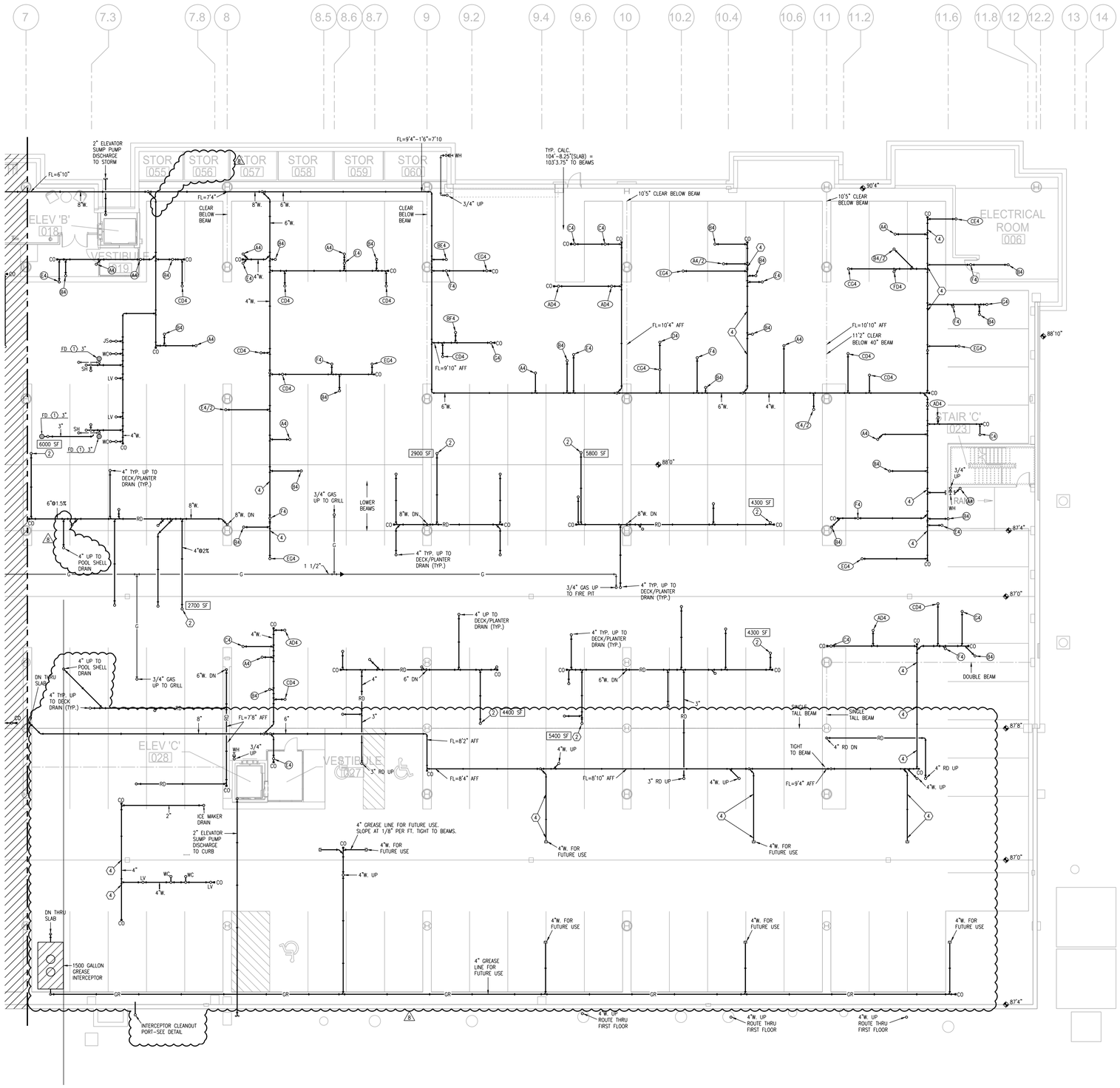
Pearl COMPANIES

NOTES:

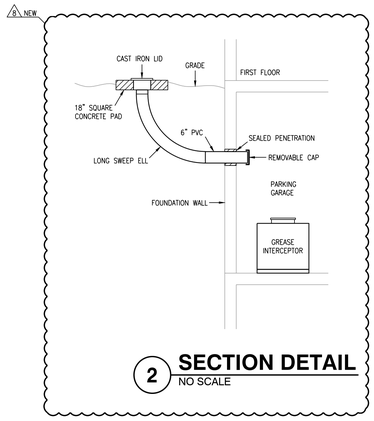
1. ALL DRAIN, WASTE AND VENT PIPING IS 2" UNLESS NOTED OTHERWISE.
2. ALL BELOW SLAB SUPPLY PIPING SHALL BE PEX WITH NO JOINTS. DHW BELOW SLAB TO BE INSULATED TO R-3.
3. DHW PIPING 3/4" AND LARGER TO BE INSULATED TO R-3 MINIMUM
4. ALL SUPPLY PIPING IS 1/2" UNLESS NOTED OTHERWISE.
5. CONNECT ALL APPLIANCES OR EQUIPMENT PER MANUFACTURERS INSTRUCTIONS.
6. ALL PLUMBING VENTS SHALL BE 10 FEET FROM OPENINGS OR INTAKE.
7. THERE SHALL BE NO PVC WITHIN RETURN AIR PLENUMS.
8. ALL FIXTURES WITH QUICK CLOSING VALVES SHALL HAVE FIXTURE OR BLADDER TYPE SHOCK SUPPRESSORS FOR EACH CHASE.
9. SEE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS.
10. REFER TO THE ARCHITECTURAL DRAWINGS FOR FLOOR DRAIN LOCATIONS AND FLOOR SLOPES IF PRESENT.
11. ROUTE DRAIN PIPING FROM WATER HEATERS, AIR HANDLERS OR EQUIPMENT TO FLOOR DRAINS. PROVIDE PROPER TRAPS.
12. ROUTE NO PIPING OVER ELECTRICAL EQUIPMENT.
13. ALL WASTE AND ROOF DRAIN STACKS SHALL HAVE CLEANOUTS AT THE BASE.

LEGEND:

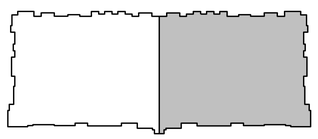
1. 3"V. UP TO RISER FOR FUTURE CONNECTION.
2. 6" UP TO DOWNSPOUT CONNECTION.
3. DOWNSPOUT CONNECTION. 6" DOWN TO GARAGE.
4. PENETRATE BEAM PER STRUCTURAL DETAIL.




1 **PARTIAL GARAGE PLAN**
3/32"=1'-0" PLUMBING




2 **SECTION DETAIL**
NO SCALE



**KEY PLAN**
NO SCALE
NORTH

# Summit at West Pryor

TR.i ARCHITECTS


TR.i Architects
9812 Manchester Road
St. Louis, Missouri 63119
T: 314-395-9750
F: 314-395-9751
www.triarchitects.com

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**DATE:** 09.12.19

**REVISIONS**

| | | |
|---|---|---|
| 1 | PERMIT COMMENTS | 09.06.19 |
| 6 | REVISION 1 | 12.20.19 |
| 7 | REVISION 2 | 1.24.20 |
| 8 | REVISION 3 | 04.03.20 |

**DWG BY** RRB

**TR.i PROJECT NO.** 18-046

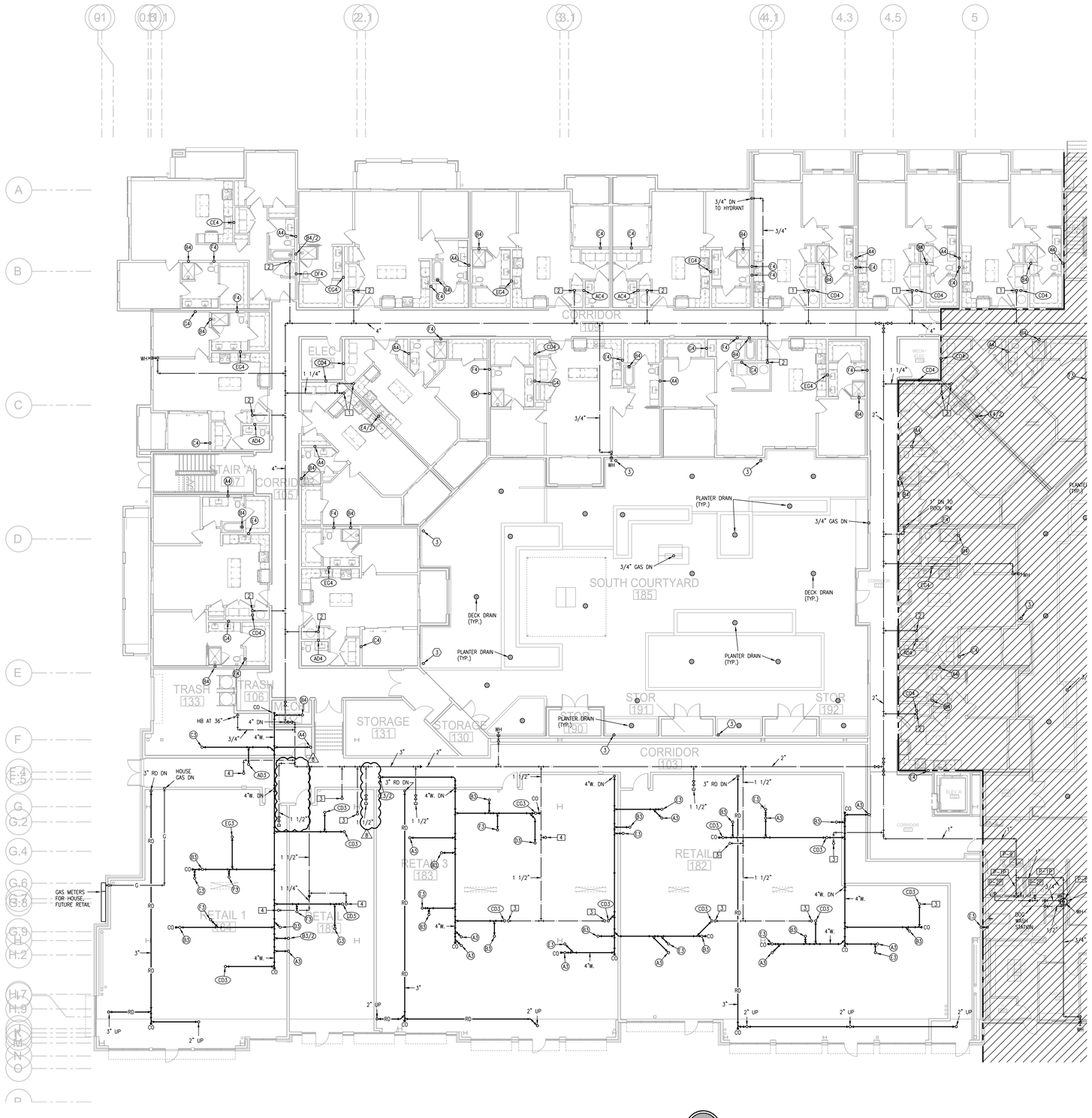
**SHEET NO.**

P104

**PARTIAL GARAGE PLAN - PLUMBING**


LS&A Latimer Sommers & Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lsapa@lsapa.com


LSA PROJECT NO. 1904023



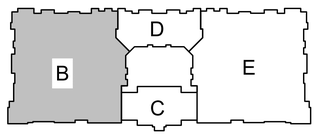

1 **FIRST FLOOR PLAN - AREA B**
3/32"=1'-0"
PLUMBING
NORTH

NOTES:

1. ALL DRAIN, WASTE AND VENT PIPING IS 2" UNLESS NOTED OTHERWISE.
2. ALL BELOW SLAB SUPPLY PIPING SHALL BE PEX WITH NO JOINTS. DHW BELOW SLAB TO BE INSULATED TO R-3.
3. DHW PIPING 3/4" AND LARGER TO BE INSULATED TO R-3 MINIMUM
4. ALL SUPPLY PIPING IS 1/2" UNLESS NOTED OTHERWISE.
5. CONNECT ALL APPLIANCES OR EQUIPMENT PER MANUFACTURERS INSTRUCTIONS.
6. ALL PLUMBING VENTS SHALL BE 10 FEET FROM OPENINGS OR INTAKE.
7. THERE SHALL BE NO PVC WITHIN RETURN AIR PLENUMS.
8. ALL FIXTURES WITH QUICK CLOSING VALVES SHALL HAVE FIXTURE OR BLADDER TYPE SHOCK SUPPRESSORS FOR EACH CHASE.
9. SEE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS.
10. REFER TO THE ARCHITECTURAL DRAWINGS FOR FLOOR DRAIN LOCATIONS AND FLOOR SLOPES IF PRESENT.
11. ROUTE DRAIN PIPING FROM WATER HEATERS, AIR HANDLERS OR EQUIPMENT TO FLOOR DRAINS. PROVIDE PROPER TRAPS.
12. ROUTE NO PIPING OVER ELECTRICAL EQUIPMENT.
13. ALL WASTE AND ROOF DRAIN STACKS SHALL HAVE CLEANOUTS AT THE BASE.

LEGEND:

1. 3"V. UP TO RISER FOR FUTURE CONNECTION.
2. 6" UP TO DOWNSPOUT CONNECTION.
3. DOWNSPOUT CONNECTION. 6" DOWN TO GARAGE.
4. PENETRATE BEAM PER STRUCTURAL DETAIL.




**KEY PLAN**
NO SCALE
NORTH

LS&A
Latimer Sommers & Associates, P.A.
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3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lsapa@lsapa.com
LSA PROJECT NO. 1904023

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER PE-2004020227
PROFESSIONAL ENGINEER
4-3-20

| | |
|---|---|
| TR.i ARCHITECTS | ARCHITECT |
| BOB D CAMPBELL & COMPANY | STRUCTURAL ENGINEER |
| RENAISSANCE INFRASTRUCTURE CONSULTING | CIVIL ENGINEER |
| BRINKMANN CONSTRUCTORS | GENERAL CONTRACTOR |
| LATIMER SOMMERS & ASSOCIATES | MECHANICAL ENGINEER |
| LATIMER SOMMERS & ASSOCIATES | PLUMBING ENGINEER |
| LATIMER SOMMERS & ASSOCIATES | ELECTRICAL ENGINEER |

Pearl COMPANIES

# Summit at West Pryor

TR.i ARCHITECTS


TR.i Architects
9812 Manchester Road
St. Louis, Missouri 63119
T: 314-395-9750
F: 314-395-9751
www.traarchitects.com

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**DATE:** 09.12.19

**REVISIONS**

| | | |
|---|---|---|
| 1 | PERMIT COMMENTS | 09.06.19 |
| 2 | REVISION 2 | 1.24.20 |
| 3 | REVISION 3 | 04.03.20 |

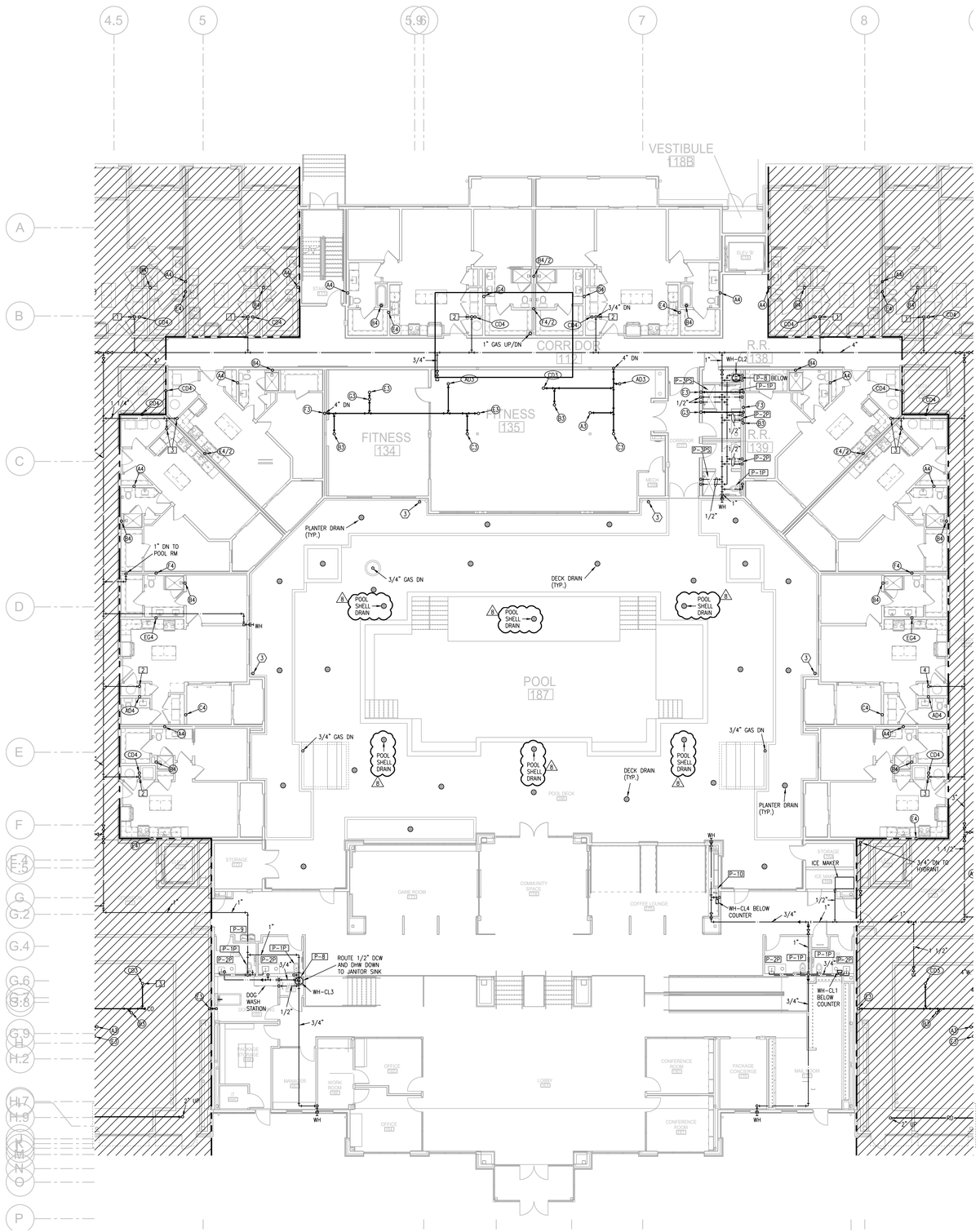
**DWG BY** RRB

**TR.i PROJECT NO.** 18-046

**SHEET NO.**

P105

**FIRST FLOOR PLAN - AREA B - PLUMBING**



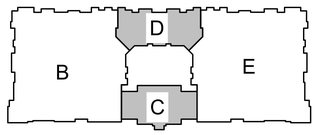

1 **FIRST FLOOR PLAN - AREA C/D**
3/32"=1'-0"
PLUMBING
NORTH

NOTES:

1. ALL DRAIN, WASTE AND VENT PIPING IS 2" UNLESS NOTED OTHERWISE.
2. ALL BELOW SLAB SUPPLY PIPING SHALL BE PEX WITH NO JOINTS. DHW BELOW SLAB TO BE INSULATED TO R-3.
3. DHW PIPING 3/4" AND LARGER TO BE INSULATED TO R-3 MINIMUM
4. ALL SUPPLY PIPING IS 1/2" UNLESS NOTED OTHERWISE.
5. CONNECT ALL APPLIANCES OR EQUIPMENT PER MANUFACTURERS INSTRUCTIONS.
6. ALL PLUMBING VENTS SHALL BE 10 FEET FROM OPENINGS OR INTAKE.
7. THERE SHALL BE NO PVC WITHIN RETURN AIR PLENUMS.
8. ALL FIXTURES WITH QUICK CLOSING VALVES SHALL HAVE FIXTURE OR BLADDER TYPE SHOCK SUPPRESSORS FOR EACH CHASE.
9. SEE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS.
10. REFER TO THE ARCHITECTURAL DRAWINGS FOR FLOOR DRAIN LOCATIONS AND FLOOR SLOPES IF PRESENT.
11. ROUTE DRAIN PIPING FROM WATER HEATERS, AIR HANDLERS OR EQUIPMENT TO FLOOR DRAINS. PROVIDE PROPER TRAPS.
12. ROUTE NO PIPING OVER ELECTRICAL EQUIPMENT.
13. ALL WASTE AND ROOF DRAIN STACKS SHALL HAVE CLEANOUTS AT THE BASE.

LEGEND:

1. 3"V. UP TO RISER FOR FUTURE CONNECTION.
2. 6" UP TO DOWNSPOUT CONNECTION.
3. DOWNSPOUT CONNECTION. 6" DOWN TO GARAGE.
4. PENETRATE BEAM PER STRUCTURAL DETAIL.




**KEY PLAN**
NO SCALE
NORTH

LS&A
Latimer Sommers & Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lsapa@lsapa.com
LSA PROJECT NO. 1904023

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER
4-3-20

| | |
|---|---|
| TR.i ARCHITECTS | ARCHITECT |
| BOB D CAMPBELL & COMPANY | STRUCTURAL ENGINEER |
| RENAISSANCE INFRASTRUCTURE CONSULTING | CIVIL ENGINEER |
| BRINKMANN CONSTRUCTORS | GENERAL CONTRACTOR |
| LATIMER SOMMERS & ASSOCIATES | MECHANICAL ENGINEER |
| LATIMER SOMMERS & ASSOCIATES | PLUMBING ENGINEER |
| LATIMER SOMMERS & ASSOCIATES | ELECTRICAL ENGINEER |

Pearl COMPANIES

# Summit at West Pryor

TR.i ARCHITECTS

TR.i Architects
9812 Manchester Road
St. Louis, Missouri 63119
T: 314-395-9750
F: 314-395-9751
www.trarchitects.com
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**DATE:** 09.12.19

**REVISIONS**

| | | |
|---|---|---|
| 1 | PERMIT COMMENTS | 09.06.19 |
| 2 | REVISION 1 | 12.20.19 |
| 3 | REVISION 2 | 1.24.20 |
| 4 | REVISION 3 | 04.03.20 |

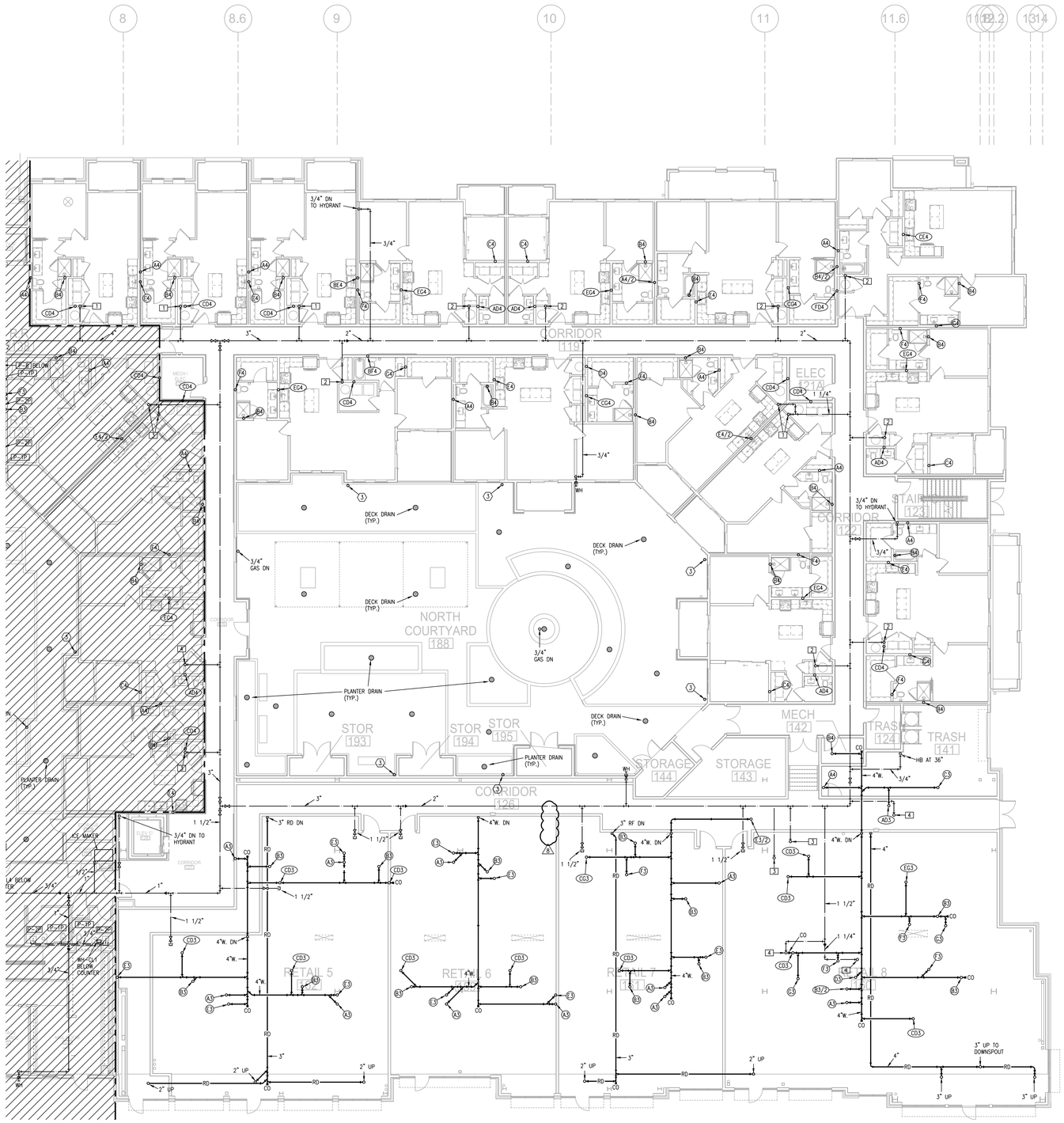
**DWG BY** RRB

**TR.i PROJECT NO.** 18-046

**SHEET NO.**

P106

**FIRST FLOOR PLAN - AREA C/D - PLUMBING**



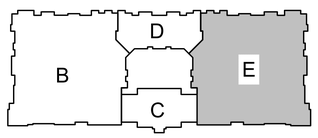

1 **FIRST FLOOR PLAN - AREA E**
3/32"=1'-0"
PLUMBING
NORTH

NOTES:

1. ALL DRAIN, WASTE AND VENT PIPING IS 2" UNLESS NOTED OTHERWISE.
2. ALL BELOW SLAB SUPPLY PIPING SHALL BE PEX WITH NO JOINTS. DHW BELOW SLAB TO BE INSULATED TO R-3.
3. DHW PIPING 3/4" AND LARGER TO BE INSULATED TO R-3 MINIMUM
4. ALL SUPPLY PIPING IS 1/2" UNLESS NOTED OTHERWISE.
5. CONNECT ALL APPLIANCES OR EQUIPMENT PER MANUFACTURERS INSTRUCTIONS.
6. ALL PLUMBING VENTS SHALL BE 10 FEET FROM OPENINGS OR INTAKE.
7. THERE SHALL BE NO PVC WITHIN RETURN AIR PLENUMS.
8. ALL FIXTURES WITH QUICK CLOSING VALVES SHALL HAVE FIXTURE OR BLADDER TYPE SHOCK SUPPRESSORS FOR EACH CHASE.
9. SEE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS.
10. REFER TO THE ARCHITECTURAL DRAWINGS FOR FLOOR DRAIN LOCATIONS AND FLOOR SLOPES IF PRESENT.
11. ROUTE DRAIN PIPING FROM WATER HEATERS, AIR HANDLERS OR EQUIPMENT TO FLOOR DRAINS. PROVIDE PROPER TRAPS.
12. ROUTE NO PIPING OVER ELECTRICAL EQUIPMENT.
13. ALL WASTE AND ROOF DRAIN STACKS SHALL HAVE CLEANOUTS AT THE BASE.

LEGEND:

1. 3"V. UP TO RISER FOR FUTURE CONNECTION.
2. 6" UP TO DOWNSPOUT CONNECTION.
3. DOWNSPOUT CONNECTION. 6" DOWN TO GARAGE.
4. PENETRATE BEAM PER STRUCTURAL DETAIL.




**KEY PLAN**
NO SCALE
NORTH


LS&A Latimer Sommers & Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lsapa@lsapa.com


LSA PROJECT NO. 1904023

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER PE-2004020223
PROFESSIONAL ENGINEER
4-3-20

| | |
|---|---|
| ARCHITECT | TR,i ARCHITECTS |
| STRUCTURAL ENGINEER | BOB D CAMPBELL & COMPANY |
| CIVIL ENGINEER | RENAISSANCE INFRASTRUCTURE CONSULTING |
| GENERAL CONTRACTOR | BRINKMANN CONSTRUCTORS |
| MECHANICAL ENGINEER | LATIMER SOMMERS & ASSOCIATES |
| PLUMBING ENGINEER | LATIMER SOMMERS & ASSOCIATES |
| ELECTRICAL ENGINEER | LATIMER SOMMERS & ASSOCIATES |

Pearl COMPANIES

# Summit at West Pryor

TR,i ARCHITECTS


TR,i Architects
9812 Manchester Road
St. Louis, Missouri 63119
T: 314-395-9750
F: 314-395-9751
www.trarchitects.com

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**DATE:** 09.12.19

**REVISIONS**

| # | | |
|---|---|---|
| 1 | PERMIT COMMENTS | 09.06.19 |
| 2 | BUILDING PERMIT COMMENTS | 09.12.19 |
| 3 | REVISION 3 | 04.03.20 |

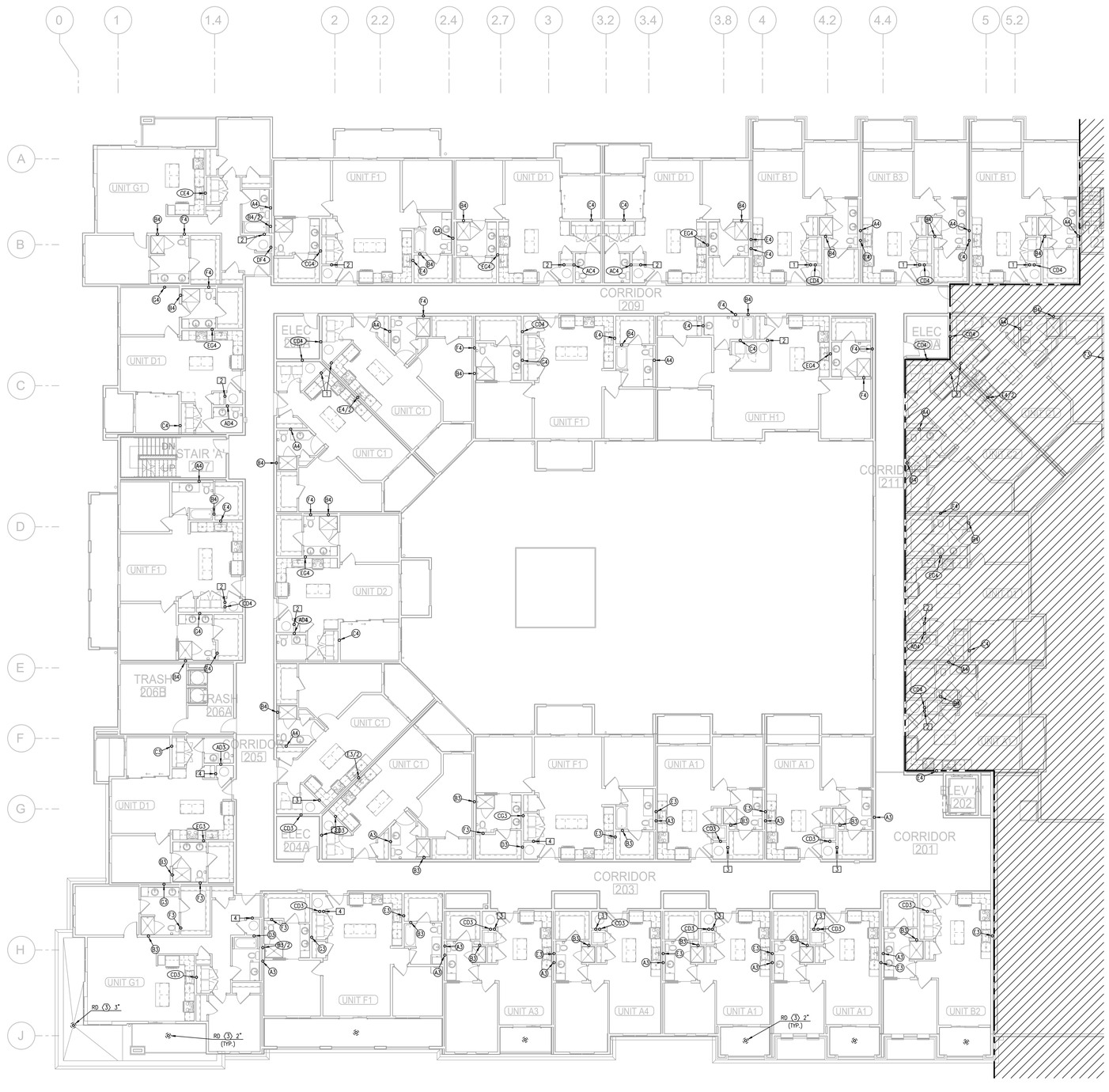
**DWG BY** RRB

**TR,i PROJECT NO.** 18-046

**SHEET NO.**

P107

**FIRST FLOOR PLAN - AREA E - PLUMBING**




## 1 SECOND FLOOR PLAN - AREA B

3/32"=1'-0" (THIRD FLOOR SIMILAR) PLUMBING

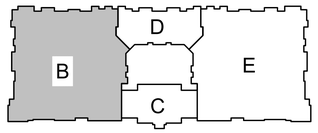
NORTH

NOTES:

1. ALL DRAIN, WASTE AND VENT PIPING IS 2" UNLESS NOTED OTHERWISE.
2. ALL BELOW SLAB SUPPLY PIPING SHALL BE PEX WITH NO JOINTS. DHW BELOW SLAB TO BE INSULATED TO R-3.
3. DHW PIPING 3/4" AND LARGER TO BE INSULATED TO R-3 MINIMUM
4. ALL SUPPLY PIPING IS 1/2" UNLESS NOTED OTHERWISE.
5. CONNECT ALL APPLIANCES OR EQUIPMENT PER MANUFACTURERS INSTRUCTIONS.
6. ALL PLUMBING VENTS SHALL BE 10 FEET FROM OPENINGS OR INTAKE.
7. THERE SHALL BE NO PVC WITHIN RETURN AIR PLENUMS.
8. ALL FIXTURES SHALL HAVE AIR CHAMBERS OR BLADDER TYPE SHOCK SUPPRESSORS FOR EACH CHASE.
9. SEE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS.
10. REFER TO THE ARCHITECTURAL DRAWINGS FOR FLOOR DRAIN LOCATIONS AND FLOOR SLOPES IF PRESENT.
11. ROUTE DRAIN PIPING FROM WATER HEATERS, AIR HANDLERS OR EQUIPMENT TO FLOOR DRAINS. PROVIDE PROPER TRAPS.
12. ROUTE NO PIPING OVER ELECTRICAL EQUIPMENT.
13. ALL WASTE AND ROOF DRAIN STACKS SHALL HAVE CLEANOUTS AT THE BASE.

LEGEND:

1. 3"V. UP TO RISER FOR FUTURE CONNECTION.
2. 6" UP TO DOWNSPOUT CONNECTION.
3. DOWNSPOUT CONNECTION. 6" DOWN TO GARAGE.




**KEY PLAN**

NO SCALE

NORTH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Latimer Sommers & Associates, P.A.
CONSULTING ENGINEERS
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Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lsapa@lsapa.com


LSA PROJECT NO. 1904023

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
Jul 13/2020

STATE OF MISSOURI
RICHARD R. HAUCK
NUMBER PE-2005020056
PROFESSIONAL ENGINEER
07-29-19

| | |
|---|---|
| TR,i ARCHITECTS | ARCHITECT |
| BOB D CAMPBELL & COMPANY | STRUCTURAL ENGINEER |
| RENAISSANCE INFRASTRUCTURE CONSULTING | CIVIL ENGINEER |
| BRINKMANN CONSTRUCTORS | GENERAL CONTRACTOR |
| LATIMER SOMMERS & ASSOCIATES | MECHANICAL ENGINEER |
| LATIMER SOMMERS & ASSOCIATES | PLUMBING ENGINEER |
| LATIMER SOMMERS & ASSOCIATES | ELECTRICAL ENGINEER |

Pearl COMPANIES

# Summit at West Pryor

TR,i ARCHITECTS


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St. Louis, Missouri 63119
T: 314-395-9750
F: 314-395-9751
www.traiarchitects.com


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DATE: 07.29.19

REVISIONS ___

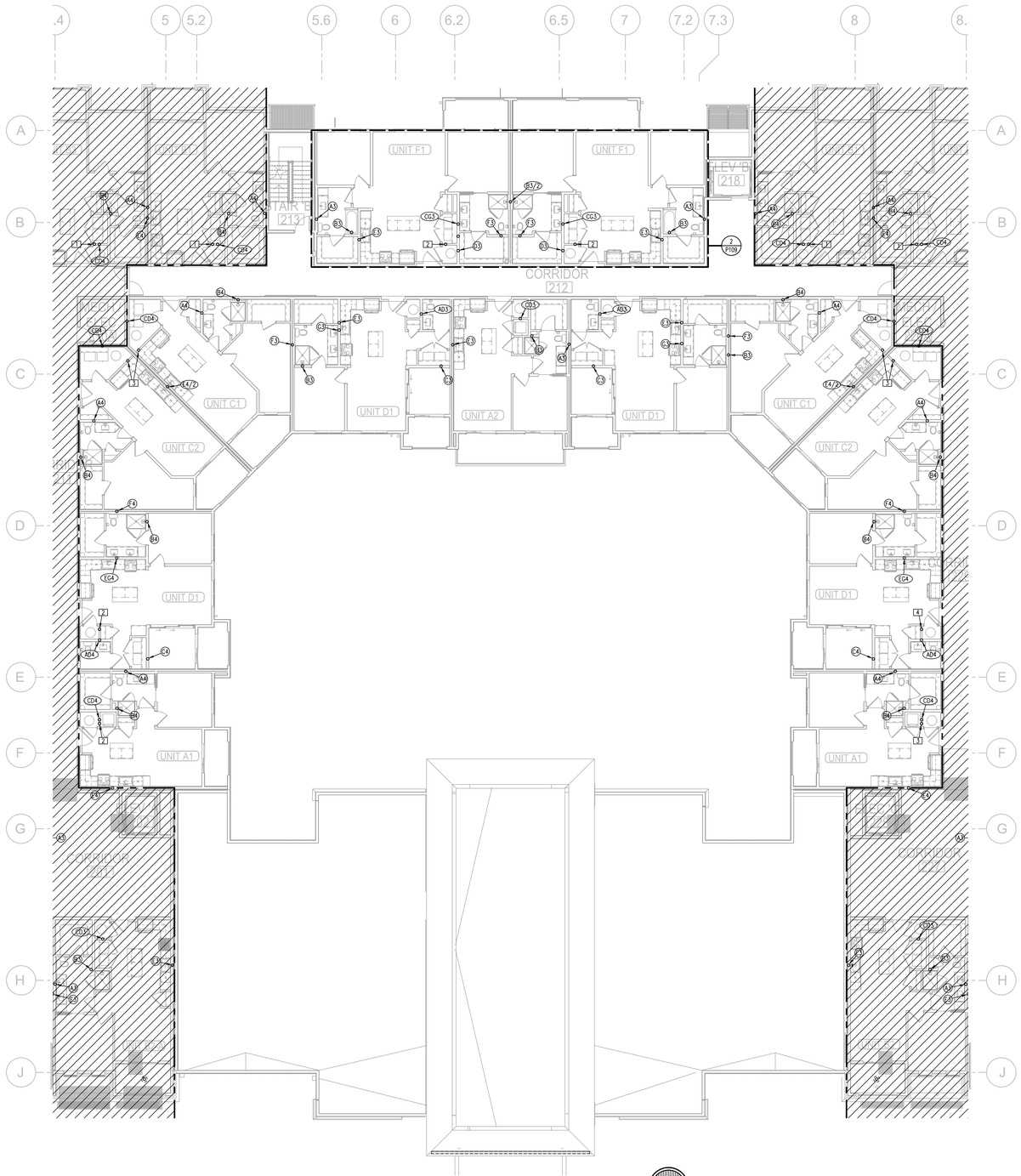
DWG BY RRB

TR,i PROJECT NO. 18-046

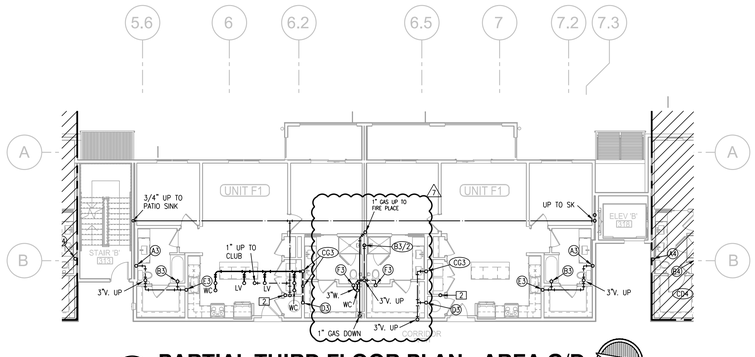
SHEET NO.

P108

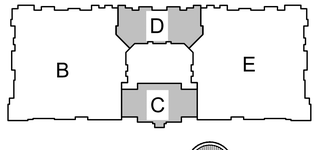
SECOND FLOOR PLAN - AREA B - PLUMBING




1 **SECOND FLOOR PLAN - AREA C/D**
3/32"=1'-0" (THIRD FLOOR SIMILAR) PLUMBING
NORTH




2 **PARTIAL THIRD FLOOR PLAN - AREA C/D**
3/32"=1'-0" PLUMBING
NORTH




**KEY PLAN**
NO SCALE
NORTH

NOTES:

1. ALL DRAIN, WASTE AND VENT PIPING IS 2" UNLESS NOTED OTHERWISE.
2. ALL BELOW SLAB SUPPLY PIPING SHALL BE PEX WITH NO JOINTS. DHW BELOW SLAB TO BE INSULATED TO R-3.
3. DHW PIPING 3/4" AND LARGER TO BE INSULATED TO R-3 MINIMUM
4. ALL SUPPLY PIPING IS 1/2" UNLESS NOTED OTHERWISE.
5. CONNECT ALL APPLIANCES OR EQUIPMENT PER MANUFACTURERS INSTRUCTIONS.
6. ALL PLUMBING VENTS SHALL BE 10 FEET FROM OPENINGS OR INTAKE.
7. THERE SHALL BE NO PVC WITHIN RETURN AIR PLENUMS.
8. ALL FIXTURES WITH QUICK CLOSING VALVES SHALL HAVE FIXTURE OR BLADDER TYPE SHOCK SUPPRESSORS FOR EACH CHASE.
9. SEE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS.
10. REFER TO THE ARCHITECTURAL DRAWINGS FOR FLOOR DRAIN LOCATIONS AND FLOOR SLOPES IF PRESENT.
11. ROUTE DRAIN PIPING FROM WATER HEATERS, AIR HANDLERS OR EQUIPMENT TO FLOOR DRAINS. PROVIDE PROPER TRAPS.
12. ROUTE NO PIPING OVER ELECTRICAL EQUIPMENT.
13. ALL WASTE AND ROOF DRAIN STACKS SHALL HAVE CLEANOUTS AT THE BASE.

LEGEND:

1. 3"V. UP TO RISER FOR FUTURE CONNECTION.
2. 6" UP TO DOWNSPOUT CONNECTION.
3. DOWNSPOUT CONNECTION. 6" DOWN TO GARAGE.
4. PENETRATE BEAM PER STRUCTURAL DETAIL.

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/13/2020

STATE OF MISSOURI
RICHARD R. BEAUMONT
NUMBER
PROFESSIONAL ENGINEER
1-24-20

ARCHITECT: TR.i ARCHITECTS
STRUCTURAL ENGINEER: BOB D CAMPBELL & COMPANY
CIVIL ENGINEER: RENAISSANCE INFRASTRUCTURE CONSULTING
GENERAL CONTRACTOR: BRINKMANN CONSTRUCTORS
MECHANICAL ENGINEER: LATIMER SOMMERS & ASSOCIATES
PLUMBING ENGINEER: LATIMER SOMMERS & ASSOCIATES
ELECTRICAL ENGINEER: LATIMER SOMMERS & ASSOCIATES

Pearl COMPANIES

# Summit at West Pryor

TR.i ARCHITECTS

TR.i Architects
9612 Manchester Road
St. Louis, Missouri 63119
T: 314-395-9750
F: 314-395-9751
www.triarchitects.com
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DATE: 09.12.19

REVISIONS

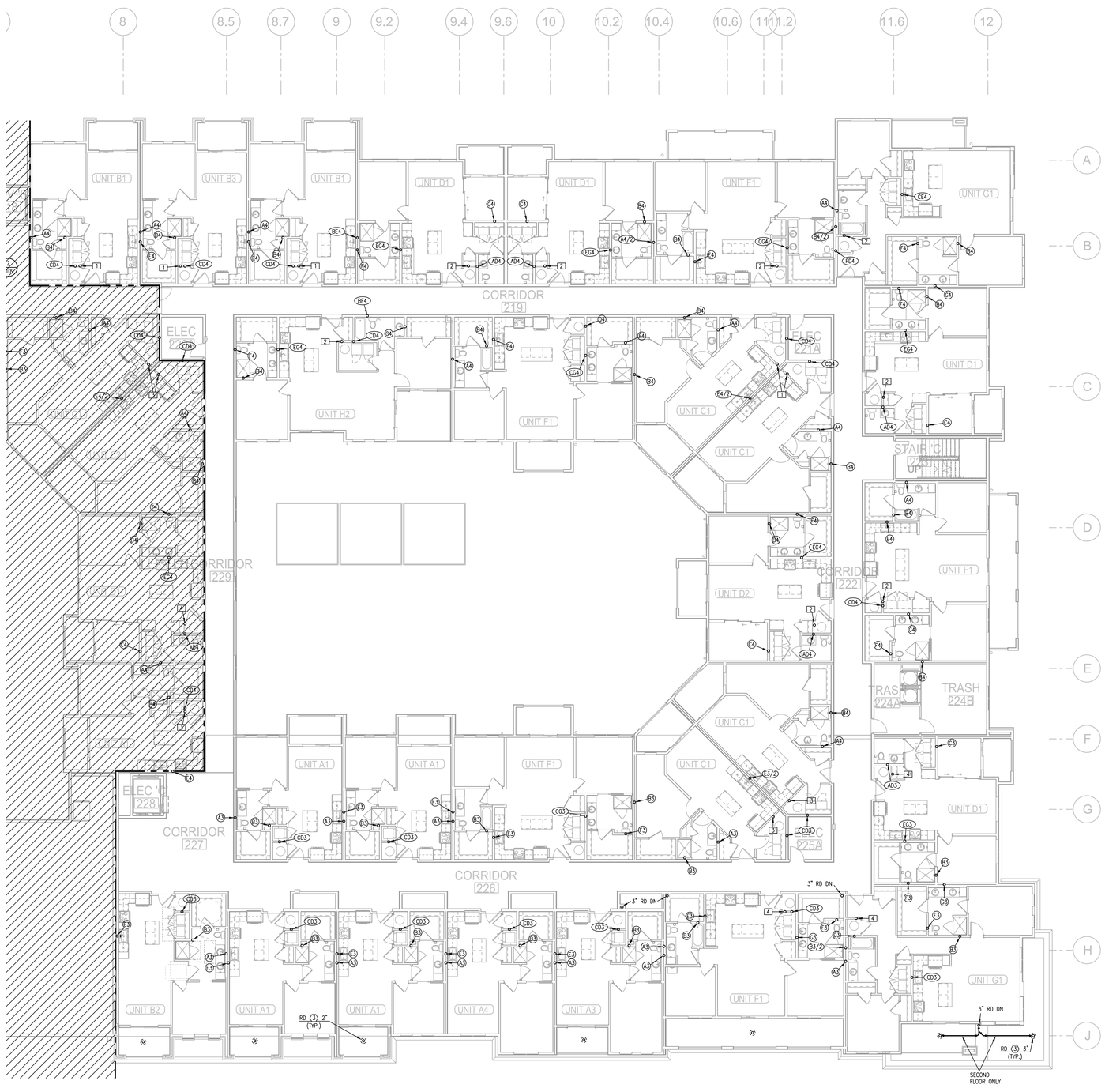
| | | |
|---|---|---|
| 2 | REVISION 1 | 12.20.19 |
| 1 | REVISION 2 | 1.24.2020 |

DWG BY: RRB
TR.i PROJECT NO.: 18-046
SHEET NO.: P109
SECOND FLOOR PLAN - AREA C/D - PLUMBING

LS&A Latimer Sommers & Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lsapa@lsapa.com
LSA PROJECT NO. 1904023

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
Jul 13/2020

STATE OF MISSOURI
RICHARD R. HUNCHAK
NUMBER PE-2005020456
PROFESSIONAL ENGINEER
07-29-19



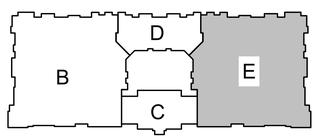

1 **SECOND FLOOR PLAN - AREA E**
3/32"=1'-0" (THIRD FLOOR SIMILAR) PLUMBING
NORTH

NOTES:

1. ALL DRAIN, WASTE AND VENT PIPING IS 2" UNLESS NOTED OTHERWISE.
2. ALL BELOW SLAB SUPPLY PIPING SHALL BE PEX WITH NO JOINTS. DHW BELOW SLAB TO BE INSULATED TO R-3.
3. DHW PIPING 3/4" AND LARGER TO BE INSULATED TO R-3 MINIMUM
4. ALL SUPPLY PIPING IS 1/2" UNLESS NOTED OTHERWISE.
5. CONNECT ALL APPLIANCES OR EQUIPMENT PER MANUFACTURERS INSTRUCTIONS.
6. ALL PLUMBING VENTS SHALL BE 10 FEET FROM OPENINGS OR INTAKE.
7. THERE SHALL BE NO PVC WITHIN RETURN AIR PLENUMS.
8. ALL FIXTURES SHALL HAVE AIR CHAMBERS OR BLADDER TYPE SHOCK SUPPRESSORS FOR EACH CHASE.
9. SEE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS.
10. REFER TO THE ARCHITECTURAL DRAWINGS FOR FLOOR DRAIN LOCATIONS AND FLOOR SLOPES IF PRESENT.
11. ROUTE DRAIN PIPING FROM WATER HEATERS, AIR HANDLERS OR EQUIPMENT TO FLOOR DRAINS. PROVIDE PROPER TRAPS.
12. ROUTE NO PIPING OVER ELECTRICAL EQUIPMENT.
13. ALL WASTE AND ROOF DRAIN STACKS SHALL HAVE CLEANOUTS AT THE BASE.

LEGEND:

1. 3"V. UP TO RISER FOR FUTURE CONNECTION.
2. 6" UP TO DOWNSPOUT CONNECTION.
3. DOWNSPOUT CONNECTION. 6" DOWN TO GARAGE.




**KEY PLAN**
NO SCALE
NORTH


LS&A
Lasmer Sommers & Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lsapa@lsapa.com

LSA PROJECT NO. 1904023

| | |
|---|---|
| ARCHITECT | TR.i ARCHITECTS |
| STRUCTURAL ENGINEER | BOB D CAMPBELL & COMPANY |
| CIVIL ENGINEER | RENAISSANCE INFRASTRUCTURE CONSULTING |
| GENERAL CONTRACTOR | BRINKMANN CONSTRUCTORS |
| MECHANICAL ENGINEER | LATIMER SOMMERS & ASSOCIATES |
| PLUMBING ENGINEER | LATIMER SOMMERS & ASSOCIATES |
| ELECTRICAL ENGINEER | LATIMER SOMMERS & ASSOCIATES |

Pearl COMPANIES

# Summit at West Pryor

TR.i ARCHITECTS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www.traiarchitects.com

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**DATE:** 07.29.19

**REVISIONS** ___

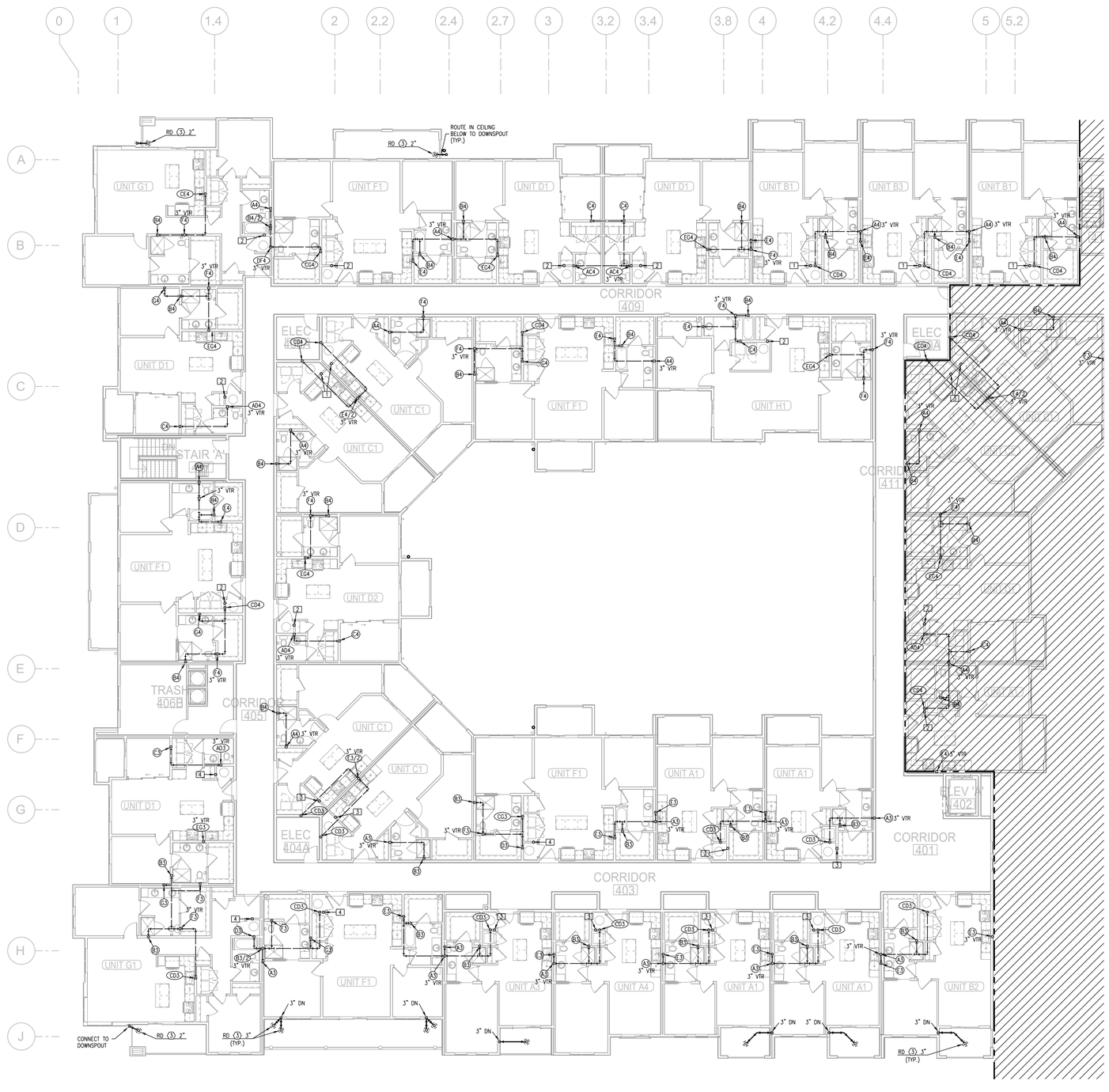
**DWG BY** RRB

**TR.i PROJECT NO.** 18-046

**SHEET NO.**

P110

**SECOND FLOOR PLAN - AREA E - PLUMBING**



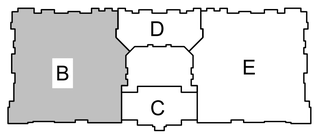

1 **FOURTH FLOOR PLAN - AREA B**
3/32"=1'-0"
PLUMBING
NORTH

NOTES:

1. ALL DRAIN, WASTE AND VENT PIPING IS 2" UNLESS NOTED OTHERWISE.
2. ALL BELOW SLAB SUPPLY PIPING SHALL BE PEX WITH NO JOINTS. DHW BELOW SLAB TO BE INSULATED TO R-3.
3. DHW PIPING 3/4" AND LARGER TO BE INSULATED TO R-3 MINIMUM
4. ALL SUPPLY PIPING IS 1/2" UNLESS NOTED OTHERWISE.
5. CONNECT ALL APPLIANCES OR EQUIPMENT PER MANUFACTURERS INSTRUCTIONS.
6. ALL PLUMBING VENTS SHALL BE 10 FEET FROM OPENINGS OR INTAKE.
7. THERE SHALL BE NO PVC WITHIN RETURN AIR PLENUMS.
8. ALL FIXTURES SHALL HAVE AIR CHAMBERS OR BLADDER TYPE SHOCK SUPPRESSORS FOR EACH CHASE.
9. SEE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS.
10. REFER TO THE ARCHITECTURAL DRAWINGS FOR FLOOR DRAIN LOCATIONS AND FLOOR SLOPES IF PRESENT.
11. ROUTE DRAIN PIPING FROM WATER HEATERS, AIR HANDLERS OR EQUIPMENT TO FLOOR DRAINS. PROVIDE PROPER TRAPS.
12. ROUTE NO PIPING OVER ELECTRICAL EQUIPMENT.
13. ALL WASTE AND ROOF DRAIN STACKS SHALL HAVE CLEANOUTS AT THE BASE.

LEGEND:

(1) 3"V. UP TO RISER FOR FUTURE CONNECTION.
(2) 6" UP TO DOWNSPOUT CONNECTION.
(3) DOWNSPOUT CONNECTION. 6" DOWN TO GARAGE.




**KEY PLAN**
NO SCALE
NORTH


LS&A Latimer Sommers & Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lsapa@lsapa.com


LSA PROJECT NO. 1904023

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
Date: 08/13/2020

STATE OF MISSOURI
RICHARD R. HAUCK
NUMBER PE-2005020496
PROFESSIONAL ENGINEER
07-29-19

| | |
|---|---|
| TR;i ARCHITECTS | ARCHITECT |
| BOB D CAMPBELL & COMPANY | STRUCTURAL ENGINEER |
| RENAISSANCE INFRASTRUCTURE CONSULTING | CIVIL ENGINEER |
| BRINKMANN CONSTRUCTORS | GENERAL CONTRACTOR |
| LATIMER SOMMERS & ASSOCIATES | MECHANICAL ENGINEER |
| LATIMER SOMMERS & ASSOCIATES | PLUMBING ENGINEER |
| LATIMER SOMMERS & ASSOCIATES | ELECTRICAL ENGINEER |

Pearl COMPANIES

# Summit at West Pryor

TR;i ARCHITECTS


TR;i Architects
9812 Manchester Road
St. Louis, Missouri 63119
T: 314-395-9750
F: 314-395-9751
www.trjarchitects.com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**DATE:** 07.29.19

**REVISIONS** ___

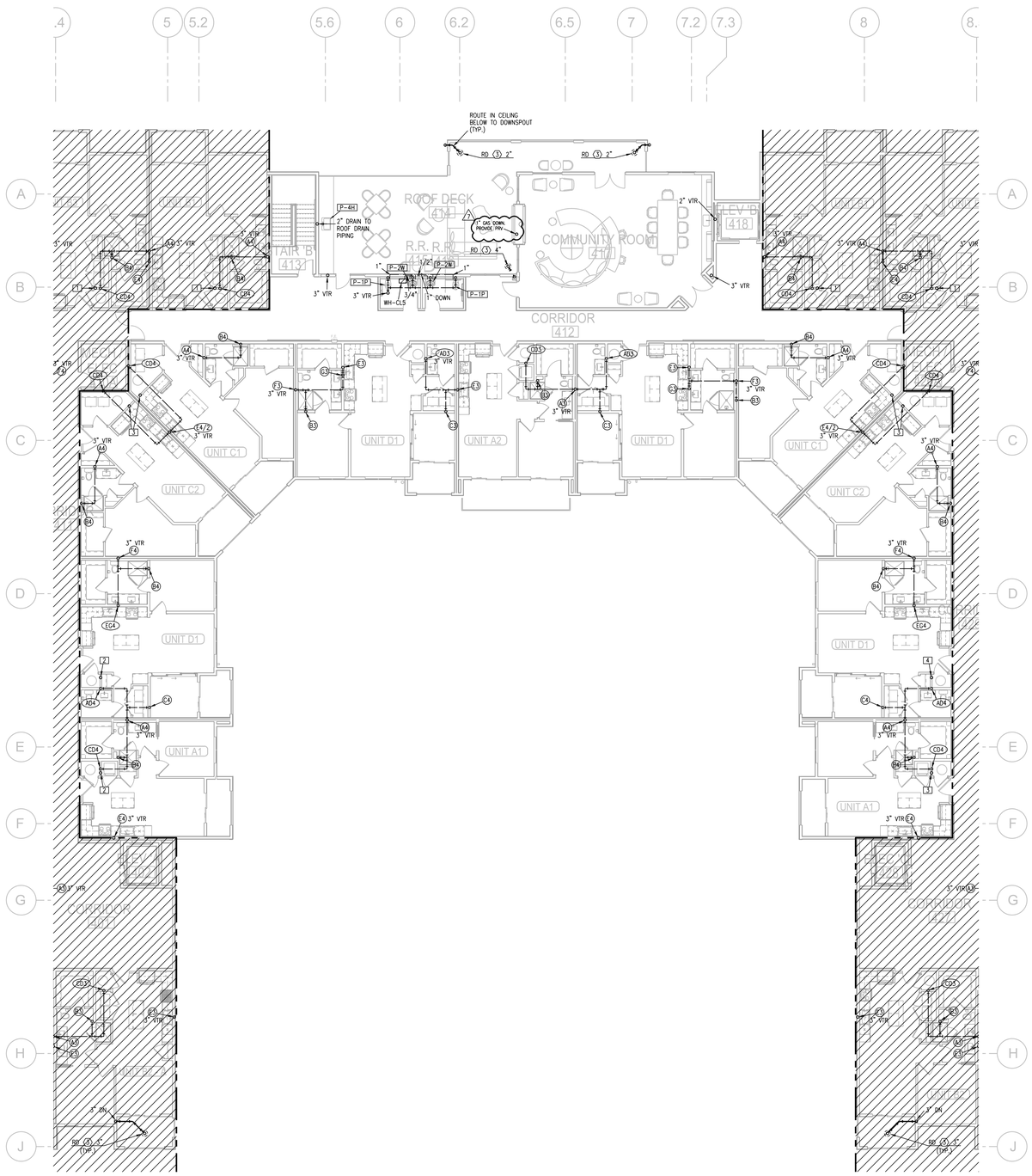
**DWG BY** RRB

**TR;i PROJECT NO.** 18-046

**SHEET NO.**

P111

**FOURTH FLOOR PLAN - AREA B - PLUMBING**



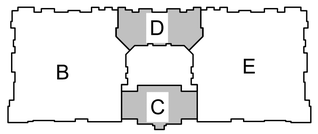

1 **FOURTH FLOOR PLAN - AREA C/D**
3/32"=1'-0"
PLUMBING
NORTH

NOTES:

1. ALL DRAIN, WASTE AND VENT PIPING IS 2" UNLESS NOTED OTHERWISE.
2. ALL BELOW SLAB SUPPLY PIPING SHALL BE PEX WITH NO JOINTS. DHW BELOW SLAB TO BE INSULATED TO R-3.
3. DHW PIPING 3/4" AND LARGER TO BE INSULATED TO R-3 MINIMUM
4. ALL SUPPLY PIPING IS 1/2" UNLESS NOTED OTHERWISE.
5. CONNECT ALL APPLIANCES OR EQUIPMENT PER MANUFACTURERS INSTRUCTIONS.
6. ALL PLUMBING VENTS SHALL BE 10 FEET FROM OPENINGS OR INTAKE.
7. THERE SHALL BE NO PVC WITHIN RETURN AIR PLENUMS.
8. ALL FIXTURES WITH QUICK CLOSING VALVES SHALL HAVE FIXTURE OR BLADDER TYPE SHOCK SUPPRESSORS FOR EACH CHASE.
9. SEE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS.
10. REFER TO THE ARCHITECTURAL DRAWINGS FOR FLOOR DRAIN LOCATIONS AND FLOOR SLOPES IF PRESENT.
11. ROUTE DRAIN PIPING FROM WATER HEATERS, AIR HANDLERS OR EQUIPMENT TO FLOOR DRAINS. PROVIDE PROPER TRAPS.
12. ROUTE NO PIPING OVER ELECTRICAL EQUIPMENT.
13. ALL WASTE AND ROOF DRAIN STACKS SHALL HAVE CLEANOUTS AT THE BASE.

LEGEND:

1. 3"V. UP TO RISER FOR FUTURE CONNECTION.
2. 6" UP TO DOWNSPOUT CONNECTION.
3. DOWNSPOUT CONNECTION. 6" DOWN TO GARAGE.
4. PENETRATE BEAM PER STRUCTURAL DETAIL.




**KEY PLAN**
NO SCALE
NORTH

LS&A
Latimer Sommers & Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lsapa@lsapa.com
LSA PROJECT NO. 1904023

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/13/2020

STATE OF MISSOURI
RICHARD R. BEAUDMORE
NUMBER
PROFESSIONAL ENGINEER
1-24-20

| | |
|---|---|
| ARCHITECT | TR,i ARCHITECTS |
| STRUCTURAL ENGINEER | BOB D CAMPBELL & COMPANY |
| CIVIL ENGINEER | RENAISSANCE INFRASTRUCTURE CONSULTING |
| GENERAL CONTRACTOR | BRINKMANN CONSTRUCTORS |
| MECHANICAL ENGINEER | LATIMER SOMMERS & ASSOCIATES |
| PLUMBING ENGINEER | LATIMER SOMMERS & ASSOCIATES |
| ELECTRICAL ENGINEER | LATIMER SOMMERS & ASSOCIATES |

Pearl COMPANIES

# Summit at West Pryor

TR,i ARCHITECTS


TR,i Architects
9812 Manchester Road
St. Louis, Missouri 63119
T: 314-395-9750
F: 314-395-9751
www.triarchitects.com

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**DATE:** 09.12.19

**REVISIONS**

| | | |
|---|---|---|
| 1 | REVISION 1 | 12.20.19 |
| 2 | REVISION 2 | 1.24.2020 |

**DWG BY** RRB

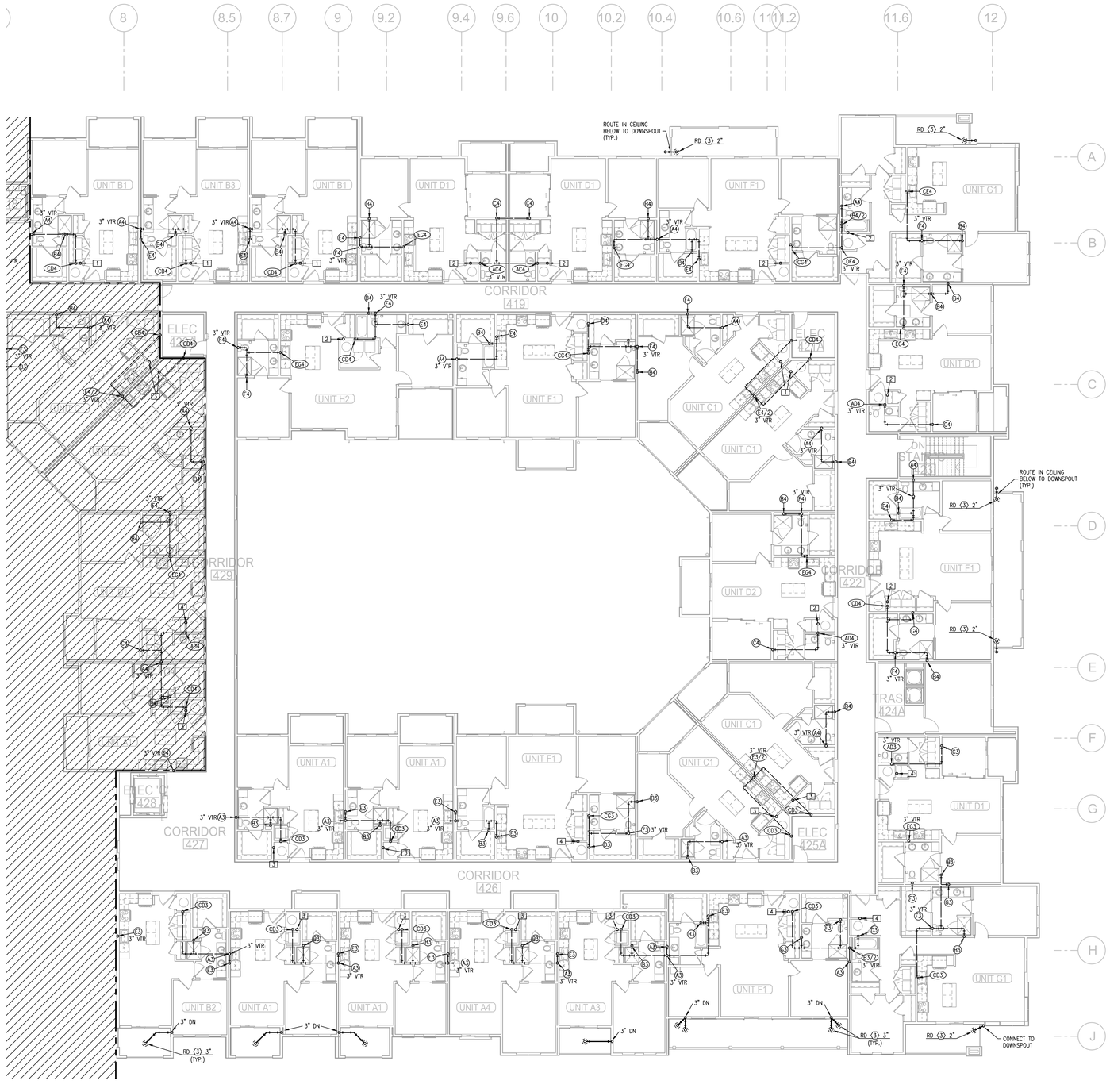
**TR,i PROJECT NO.** 18-046

**SHEET NO.**

P112

**FOURTH FLOOR PLAN - AREA C/D - PLUMBING**

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
Jul 13, 2020




1 **FOURTH FLOOR PLAN - AREA E**
3/32"=1'-0" PLUMBING
NORTH

NOTES:

1. ALL DRAIN, WASTE AND VENT PIPING IS 2" UNLESS NOTED OTHERWISE.
2. ALL BELOW SLAB SUPPLY PIPING SHALL BE PEX WITH NO JOINTS. DHW BELOW SLAB TO BE INSULATED TO R-3.
3. DHW PIPING 3/4" AND LARGER TO BE INSULATED TO R-3 MINIMUM
4. ALL SUPPLY PIPING IS 1/2" UNLESS NOTED OTHERWISE.
5. CONNECT ALL APPLIANCES OR EQUIPMENT PER MANUFACTURERS INSTRUCTIONS.
6. ALL PLUMBING VENTS SHALL BE 10 FEET FROM OPENINGS OR INTAKE.
7. THERE SHALL BE NO PVC WITHIN RETURN AIR PLENUMS.
8. ALL FIXTURES SHALL HAVE AIR CHAMBERS OR BLADDER TYPE SHOCK SUPPRESSORS FOR EACH CHASE.
9. SEE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS.
10. REFER TO THE ARCHITECTURAL DRAWINGS FOR FLOOR DRAIN LOCATIONS AND FLOOR SLOPES IF PRESENT.
11. ROUTE DRAIN PIPING FROM WATER HEATERS, AIR HANDLERS OR EQUIPMENT TO FLOOR DRAINS. PROVIDE PROPER TRAPS.
12. ROUTE NO PIPING OVER ELECTRICAL EQUIPMENT.
13. ALL WASTE AND ROOF DRAIN STACKS SHALL HAVE CLEANOUTS AT THE BASE.

LEGEND:

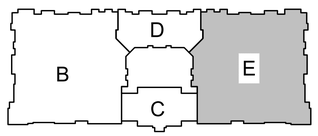
1. 3"V. UP TO RISER FOR FUTURE CONNECTION.
2. 6" UP TO DOWNSPOUT CONNECTION.
3. DOWNSPOUT CONNECTION. 6" DOWN TO GARAGE.

STATE OF MISSOURI
RICHARD R. HARDEMAN
NUMBER PE-2005020056
PROFESSIONAL ENGINEER
07-29-19

| | |
|---|---|
| ARCHITECT | TR,i ARCHITECTS |
| STRUCTURAL ENGINEER | BOB D CAMPBELL & COMPANY |
| CIVIL ENGINEER | RENAISSANCE INFRASTRUCTURE CONSULTING |
| GENERAL CONTRACTOR | BRINKMANN CONSTRUCTORS |
| MECHANICAL ENGINEER | LATIMER SOMMERS & ASSOCIATES |
| PLUMBING ENGINEER | LATIMER SOMMERS & ASSOCIATES |
| ELECTRICAL ENGINEER | LATIMER SOMMERS & ASSOCIATES |

Pearl COMPANIES

# Summit at West Pryor




**KEY PLAN**
NO SCALE
NORTH

LS&A Latimer Sommers & Associates, P.A.
CONSULTING ENGINEERS
3630 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lsapa@lsapa.com
LSA PROJECT NO. 1904023

TR,i ARCHITECTS
TR,i Architects
9812 Manchester Road
St. Louis, Missouri 63119
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T: 314-395-9750
F: 314-395-9751
www.triarchitects.com

**DATE:** 07.29.19

**REVISIONS** ___

**DWG BY** RRB

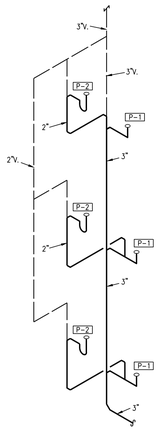
**TR,i PROJECT NO.** 18-046

**SHEET NO.**

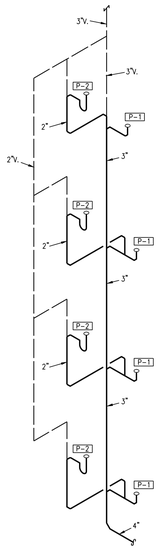
P113

**FOURTH FLOOR PLAN - AREA E - PLUMBING**

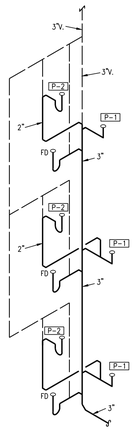
| NOTES: |
|---|
| 1. PROVIDE CLEANOUTS AT BASE OF ALL STACKS. |




**A3 PLUMBING RISER**
NO SCALE




**A4 PLUMBING RISER**
NO SCALE

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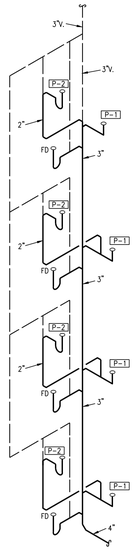
NO SCALE




**AD4 PLUMBING RISER**
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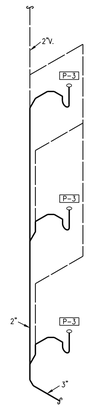
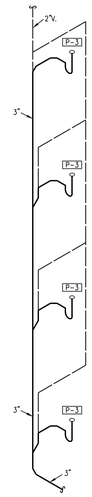
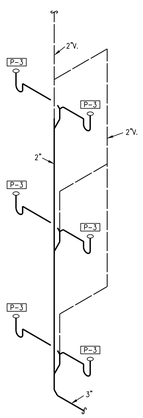


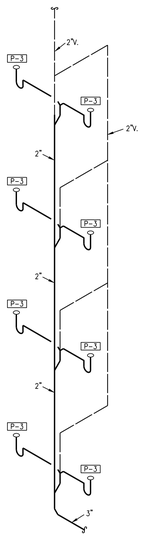

**B3 PLUMBING RISER**
NO SCALE



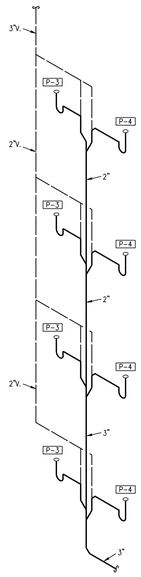

**B4 PLUMBING RISER**
NO SCALE



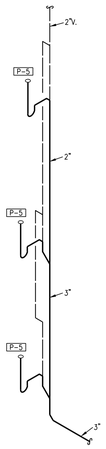

**B3/2 PLUMBING RISER**
NO SCALE



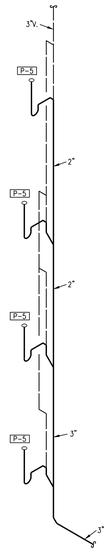

**B4/2 PLUMBING RISER**
NO SCALE



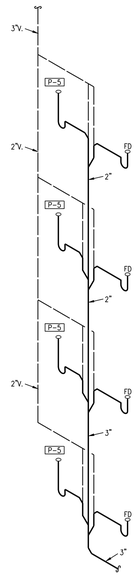

**BE4 PLUMBING RISER**
NO SCALE




**C3 PLUMBING RISER**
NO SCALE




**C4 PLUMBING RISER**
NO SCALE




**CD4 PLUMBING RISER**
NO SCALE

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
09/13/2020

STATE OF MISSOURI
RICHARD R. BEARCMORE
NO. E-27000
PROFESSIONAL ENGINEER

09-12-19

| | |
|---|---|
| TR¡ ARCHITECTS | ARCHITECT |
| BOB D CAMPBELL & COMPANY | STRUCTURAL ENGINEER |
| RENAISSANCE INFRASTRUCTURE CONSULTING | CIVIL ENGINEER |
| BRINKMANN CONSTRUCTORS | GENERAL CONTRACTOR |
| LATIMER SOMMERS & ASSOCIATES | MECHANICAL ENGINEER |
| LATIMER SOMMERS & ASSOCIATES | PLUMBING ENGINEER |
| LATIMER SOMMERS & ASSOCIATES | ELECTRICAL ENGINEER |

Pearl COMPANIES

# Summit at West Pryor

TR¡ ARCHITECTS


TR¡ Architects
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St. Louis, Missouri 63119
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F: 314-395-9751
www.tracrchitects.com

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**DATE:** 09.12.19

**REVISIONS** 2

| | | |
|---|---|---|
| 3 | BUILDING PERMIT COMMENTS | 09.12.19 |

**DWG BY** RRB

**TR¡ PROJECT NO.** 18-046

**SHEET NO.**

NEW SHEET 3 **P114**

**PLUMBING RISERS**


LS&A Latimer Sommers & Associates, P.A.
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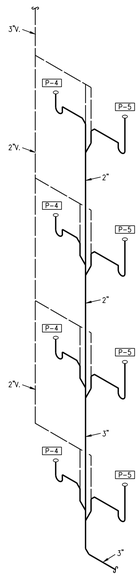
FAX: (785) 233-0647
Email: lsapa@lsapa.com


LSA PROJECT NO. 1904023

NOTES:

1. PROVIDE CLEANOUTS AT BASE OF ALL STACKS.

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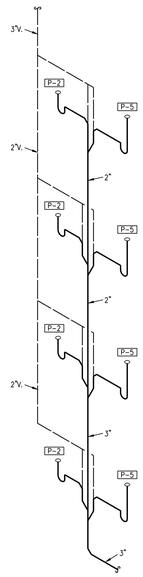


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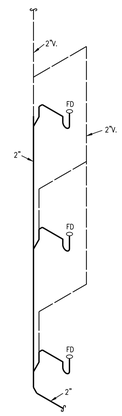
NO SCALE

SOME RISERS MAY HAVE DUAL LAVATORIES.

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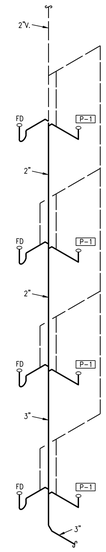


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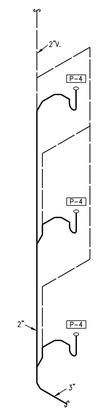


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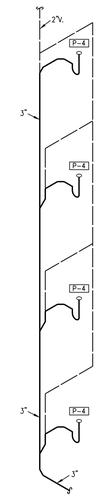
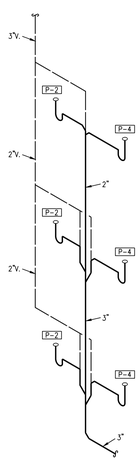
NO SCALE

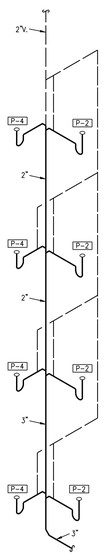



**E4 PLUMBING RISER**
NO SCALE



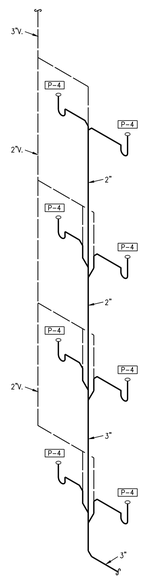

**EG3 PLUMBING RISER**
NO SCALE

SOME RISERS MAY HAVE DUAL LAVATORIES.




**EG4 PLUMBING RISER**
NO SCALE

SOME RISERS MAY HAVE DUAL LAVATORIES.

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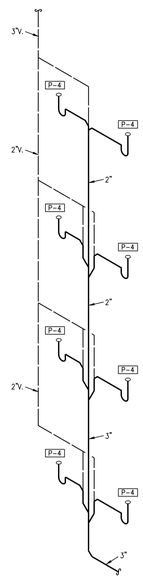
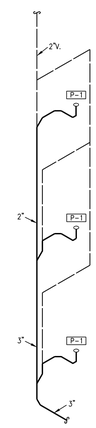
NO SCALE




**E4/2 PLUMBING RISER**
NO SCALE

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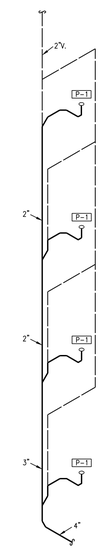
NO SCALE




**F4 PLUMBING RISER**
NO SCALE

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
09/13/2020

STATE OF MISSOURI
RICHARD R. BEARCMORE
NO. PE-2003020
PROFESSIONAL ENGINEER

09-12-19

ARCHITECT: TR,i ARCHITECTS
STRUCTURAL ENGINEER: BOB D CAMPBELL & COMPANY
CIVIL ENGINEER: RENAISSANCE INFRASTRUCTURE CONSULTING
GENERAL CONTRACTOR: BRINKMANN CONSTRUCTORS
MECHANICAL ENGINEER: LATIMER SOMMERS & ASSOCIATES
PLUMBING ENGINEER: LATIMER SOMMERS & ASSOCIATES
ELECTRICAL ENGINEER: LATIMER SOMMERS & ASSOCIATES

Pearl COMPANIES

# Summit at West Pryor

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F: 314-395-9751
www.traarchitects.com

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DATE: 09.12.19

REVISIONS

| | | |
|---|---|---|
| 3 | BUILDING PERMIT COMMENTS | 09.12.19 |

DWG BY: RRB

TR,i PROJECT NO.: 18-046

SHEET NO.

NEW SHEET 3

P115

PLUMBING RISERS


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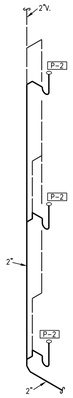
FAX: (785) 233-0647
Email: lsapa@lsapa.com

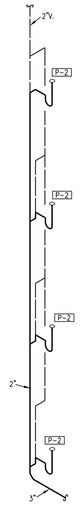

LSA PROJECT NO. 1904023

| NOTES: |
|---|
| 1. PROVIDE CLEANOUTS AT BASE OF ALL STACKS. |



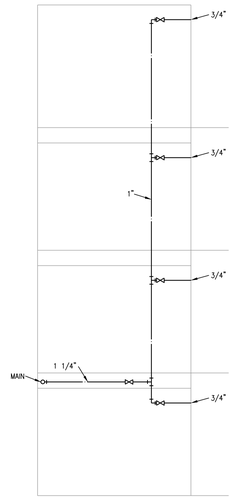

**G3 PLUMBING RISER**
NO SCALE

SOME RISERS MAY HAVE DUAL LAVATORIES.

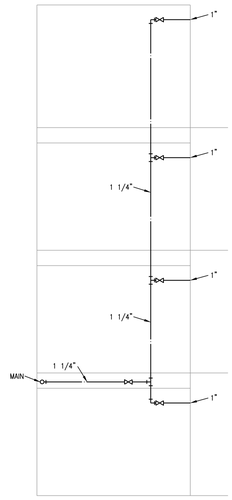



**G4 PLUMBING RISER**
NO SCALE

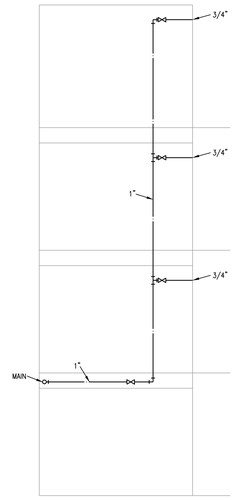
SOME RISERS MAY HAVE DUAL LAVATORIES.



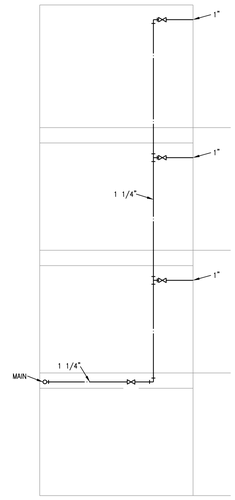

**1 SUPPLY RISER**
NO SCALE (ONE BATH)




**2 SUPPLY RISER**
NO SCALE (TWO BATH)




**3 SUPPLY RISER**
NO SCALE (ONE BATH)




**4 SUPPLY RISER**
NO SCALE (TWO BATH)


LS&A
Latimer Sommers & Associates, P.A.
CONSULTING ENGINEERS
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Topeka, Kansas 66614-3074
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lsapa@lsapa.com
LSA PROJECT NO. 1904023


RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
09/13/2020

STATE OF MISSOURI
RICHARD R. BEARCMORE
NUMBER
PROFESSIONAL ENGINEER
09-12-19

ARCHITECT: TR,i ARCHITECTS
STRUCTURAL ENGINEER: BOB D CAMPBELL & COMPANY
CIVIL ENGINEER: RENAISSANCE INFRASTRUCTURE CONSULTING
GENERAL CONTRACTOR: BRINKMANN CONSTRUCTORS
MECHANICAL ENGINEER: LATIMER SOMMERS & ASSOCIATES
PLUMBING ENGINEER: LATIMER SOMMERS & ASSOCIATES
ELECTRICAL ENGINEER: LATIMER SOMMERS & ASSOCIATES

Pearl COMPANIES

# Summit at West Pryor


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F: 314-395-9751
www.tracrchitects.com

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**DATE:** 09.12.19

**REVISIONS** 2

| | | |
|---|---|---|
| 1 | BUILDING PERMIT COMMENTS | 09.12.19 |

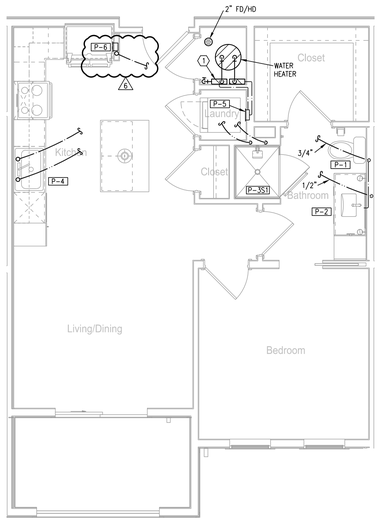
**DWG BY** RRB

**TR,i PROJECT NO.** 18-046

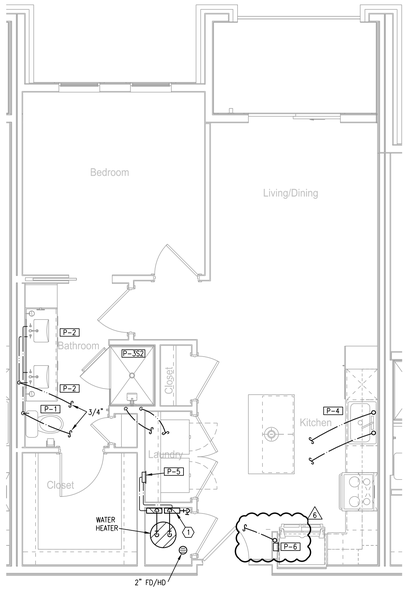
**SHEET NO.**
NEW SHEET 3
P116
PLUMBING RISERS

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/13/2020

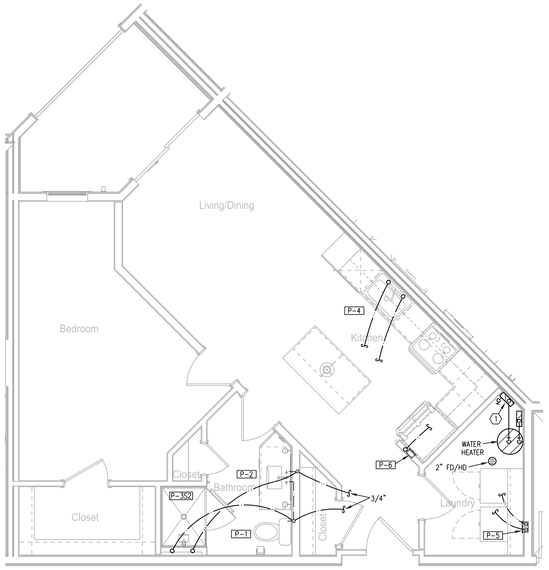
| LEGEND: |
|---|
| (1) 3/4" CW MANIFOLD WITH SHUT-OFF. |
| (2) 1" CW MANIFOLD WITH SHUT-OFF. |



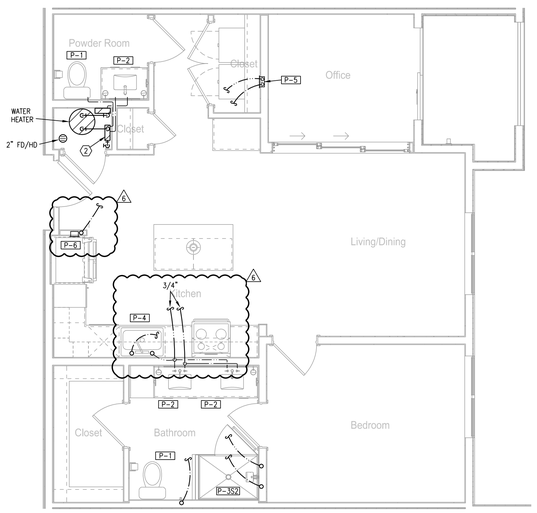

1 **TYPICAL UNIT PLAN - A1**
1/4"=1'-0" (UNITS A2, A3, AND A4 SIMILAR) PLUMBING



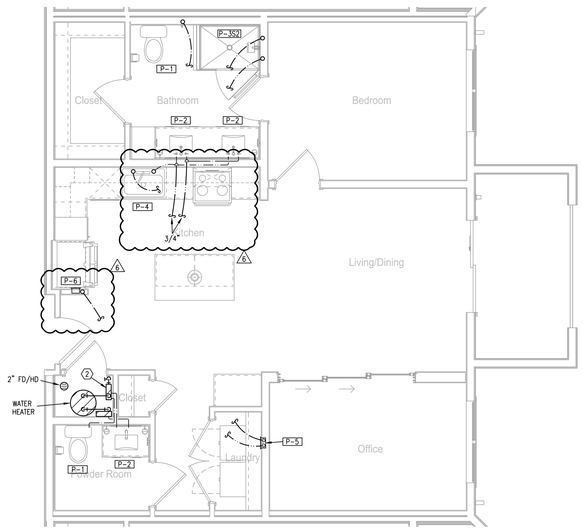

2 **TYPICAL UNIT PLAN - B1**
1/4"=1'-0" (UNIT B2 SIMILAR) PLUMBING




3 **TYPICAL UNIT PLAN - C**
1/4"=1'-0" PLUMBING




4 **TYPICAL UNIT PLAN - D1**
1/4"=1'-0" PLUMBING




5 **TYPICAL UNIT PLAN - D2**
1/4"=1'-0" PLUMBING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Email: lsapa@lsapa.com


LSA PROJECT NO. 1904023

STATE OF MISSOURI
BRENDAN R. BEARDMORE
NO. 2003038
PROFESSIONAL ENGINEER
12-20-2019

| | |
|---|---|
| TR,i ARCHITECTS | ARCHITECT |
| BOB D CAMPBELL & COMPANY | STRUCTURAL ENGINEER |
| RENAISSANCE INFRASTRUCTURE CONSULTING | CIVIL ENGINEER |
| BRINKMANN CONSTRUCTORS | GENERAL CONTRACTOR |
| LATIMER SOMMERS & ASSOCIATES | MECHANICAL ENGINEER |
| LATIMER SOMMERS & ASSOCIATES | PLUMBING ENGINEER |
| LATIMER SOMMERS & ASSOCIATES | ELECTRICAL ENGINEER |

Pearl COMPANIES

# Summit at West Pryor

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www.triarchitects.com

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**DATE:** 09.12.19

**REVISIONS** (6)

| | | |
|---|---|---|
| 6 | REVISION 1 | 12.20.19 |

**DWG BY** RRB

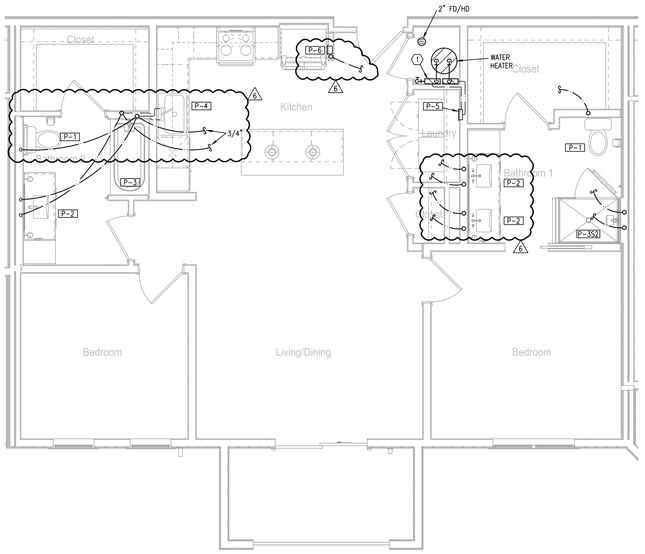
**TR,i PROJECT NO.** 18-046

**SHEET NO.**

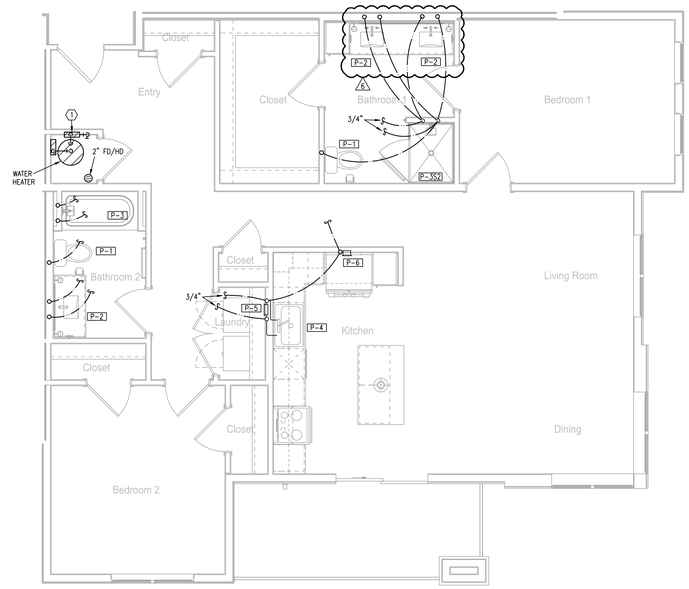
P201

**TYPICAL UNIT PLANS - PLUMBING**

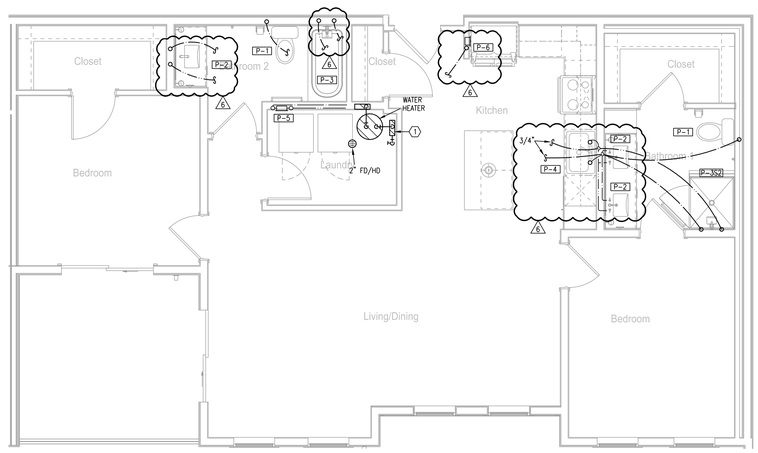
| LEGEND: |
|---|
| 1 3/4" CW MANIFOLD WITH SHUT-OFF. |
| 2 1" CW MANIFOLD WITH SHUT-OFF. |




1 **TYPICAL UNIT PLAN - F**
1/4"=1'-0" PLUMBING




2 **TYPICAL UNIT PLAN - G**
1/4"=1'-0" PLUMBING




3 **TYPICAL UNIT PLAN - H**
1/4"=1'-0" PLUMBING

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
09/13/2020

STATE OF MISSOURI
RICHARD R. BEARDMORE
NO. PE-2004020234
PROFESSIONAL ENGINEER

12-20-2019

ARCHITECT TR,i ARCHITECTS
STRUCTURAL ENGINEER BOB D CAMPBELL & COMPANY
CIVIL ENGINEER RENAISSANCE INFRASTRUCTURE CONSULTING
GENERAL CONTRACTOR BRINKMANN CONSTRUCTORS
MECHANICAL ENGINEER LATIMER SOMMERS & ASSOCIATES
PLUMBING ENGINEER LATIMER SOMMERS & ASSOCIATES
ELECTRICAL ENGINEER LATIMER SOMMERS & ASSOCIATES

Pearl COMPANIES

# Summit at West Pryor

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F: 314-395-9751
www.triarchitects.com

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**DATE:** 09.12.19

**REVISIONS** 6

| | | |
|---|---|---|
| 6 | REVISION 1 | 12.20.19 |

**DWG BY** RRB

**TR,i PROJECT NO.** 18-046

**SHEET NO.**

P202

**TYPICAL UNIT PLANS - PLUMBING**


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FAX: (785) 233-0647
Email: lsapa@lsapa.com


LSA PROJECT NO. 1904023

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/13/2020

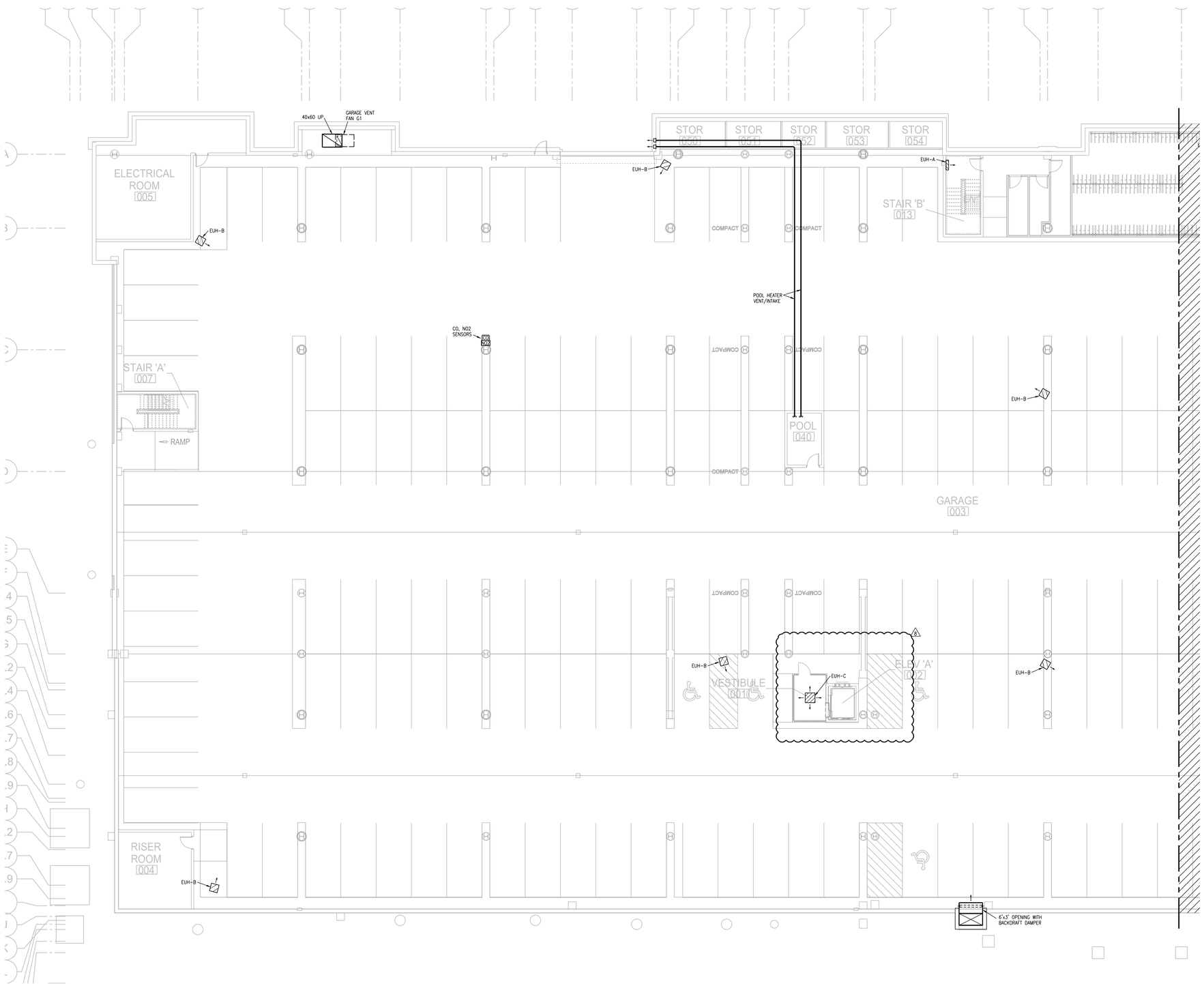
STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER
4-3-20

NOTES:

1. ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE DIFFUSER NECK LISTED AND HAVE A MANUAL BALANCING DAMPER WHERE NOT INTEGRAL WITH THE DIFFUSER.
2. SEE THE ARCHITECTURAL, LIGHTING AND STRUCTURAL DRAWINGS FOR CLEARANCES.
3. MAINTAIN 3 FEET CLEARANCE FROM EXHAUST DUCTS TO BUILDING OPENINGS AND 10 FEET TO AIR INTAKES.
4. ROUTE NO DUCTS OVER ELECTRICAL EQUIPMENT.
5. FLEXIBLE DUCT LENGTHS SHALL NOT EXCEED 8 FEET AND SHALL BE AS STRAIGHT AS POSSIBLE AND NOT KINKED AT DIFFUSER OR TAKE-OFF.

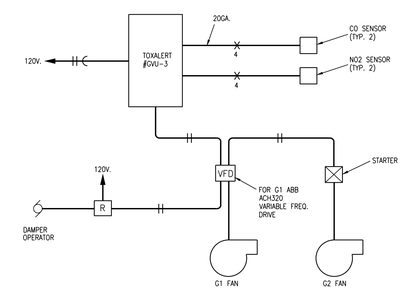
LEGEND:

1. OUTSIDE AIR CONTROL AND BALANCING DAMPER.
2. DUCT WITH CRD AT RATED MEMBRANE.
3. ROUTE COND. TO LAV TAILPIECE OR WASHER BOX.



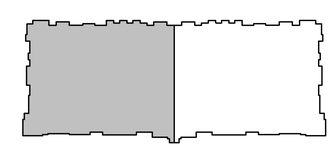

## 1 PARTIAL GARAGE PLAN
3/32"=1'-0"
HVAC
NORTH

SEQUENCE OF OPERATION – EF-G1 OPERATES AT MINIMUM SPEED FOR 1000 CFM CONTINUOUS OPERATION. CO AND NO2 SENSORS IN GARAGE WILL BRING G/1 AND G/2 TO FULL SPEED UNTIL SETPOINT MET.




## 2 PARKING GARAGE FAN CONTROL
NO SCALE

EQUIPMENT (INCLUDING VFD) BY M/C, WIRING BY E/C. SEE DRAWING FOR QUANTITY.



## KEY PLAN
NO SCALE
NORTH

LS&A
Latimer Sommers & Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lsapa@lsapa.com
LSA PROJECT NO. 1904023

| | |
|---|---|
| ARCHITECT | TR,i ARCHITECTS |
| STRUCTURAL ENGINEER | BOB D CAMPBELL & COMPANY |
| CIVIL ENGINEER | RENAISSANCE INFRASTRUCTURE CONSULTING |
| GENERAL CONTRACTOR | BRINKMANN CONSTRUCTORS |
| MECHANICAL ENGINEER | LATIMER SOMMERS & ASSOCIATES |
| PLUMBING ENGINEER | LATIMER SOMMERS & ASSOCIATES |
| ELECTRICAL ENGINEER | LATIMER SOMMERS & ASSOCIATES |

Pearl COMPANIES

# Summit at West Pryor

TR,i ARCHITECTS


TR,i Architects
9812 Manchester Road
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T: 314-395-9750
F: 314-395-9751
www.trarchitects.com

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DATE: 09.12.19

REVISIONS

| | |
|---|---|
| 1 REVISION 1 | 12.20.19 |
| 3 REVISION 3 | 04.03.20 |

DWG BY RRB

TR,i PROJECT NO. 18-046

SHEET NO.

M101

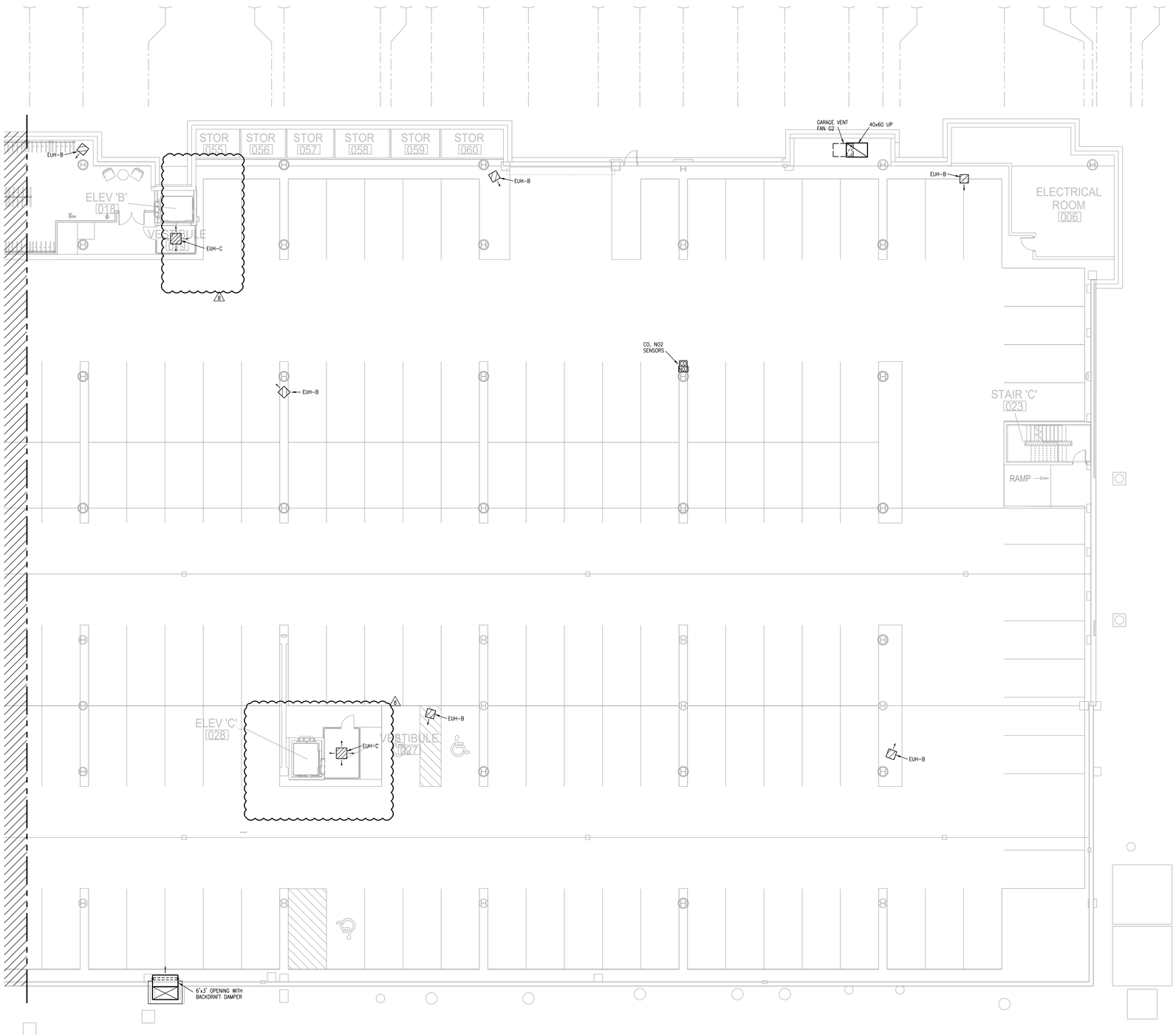
PARTIAL GARAGE PLAN - HVAC

NOTES:

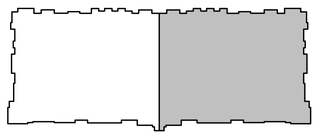
1. ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE DIFFUSER NECK LISTED AND HAVE A MANUAL BALANCING DAMPER WHERE NOT INTEGRAL WITH THE DIFFUSER.
2. SEE THE ARCHITECTURAL, LIGHTING AND STRUCTURAL DRAWINGS FOR CLEARANCES.
3. MAINTAIN 3 FEET CLEARANCE FROM EXHAUST DUCTS TO BUILDING OPENINGS AND 10 FEET TO AIR INTAKES.
4. ROUTE NO DUCTS OVER ELECTRICAL EQUIPMENT.
5. FLEXIBLE DUCT LENGTHS SHALL NOT EXCEED 8 FEET AND SHALL BE AS STRAIGHT AS POSSIBLE AND NOT KINKED AT DIFFUSER OR TAKE-OFF.

LEGEND:

1. OUTSIDE AIR CONTROL AND BALANCING DAMPER.
2. DUCT WITH CRD AT RATED MEMBRANE.
3. ROUTE COND. TO LAV TAILPIECE OR WASHER BOX.




1 **PARTIAL GARAGE PLAN**
3/32" = 1'-0"
HVAC
NORTH



**KEY PLAN**
NO SCALE
NORTH

LS&A Latimer Sommers & Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lsapa@lsapa.com
LSA PROJECT NO. 1904023

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER
4-3-20

ARCHITECT: TR.i ARCHITECTS
STRUCTURAL ENGINEER: BOB D CAMPBELL & COMPANY
CIVIL ENGINEER: RENAISSANCE INFRASTRUCTURE CONSULTING
GENERAL CONTRACTOR: BRINKMANN CONSTRUCTORS
MECHANICAL ENGINEER: LATIMER SOMMERS & ASSOCIATES
PLUMBING ENGINEER: LATIMER SOMMERS & ASSOCIATES
ELECTRICAL ENGINEER: LATIMER SOMMERS & ASSOCIATES

Pearl COMPANIES

# Summit at West Pryor

TR.i ARCHITECTS


TR.i Architects
9812 Manchester Road
St. Louis, Missouri 63119
T: 314-395-9750
F: 314-395-9751
www.triarchitects.com

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**DATE:** 09.12.19

**REVISIONS**

| | | |
|---|---|---|
| 6 | REVISION 1 | 12.20.19 |
| 7 | REVISION 2 | 1.24.20 |
| 8 | REVISION 3 | 04.03.20 |

**DWG BY** RRB

**TR.i PROJECT NO.** 18-046

**SHEET NO.**

M102

**PARTIAL GARAGE PLAN - HVAC**

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
Jul 13/2020

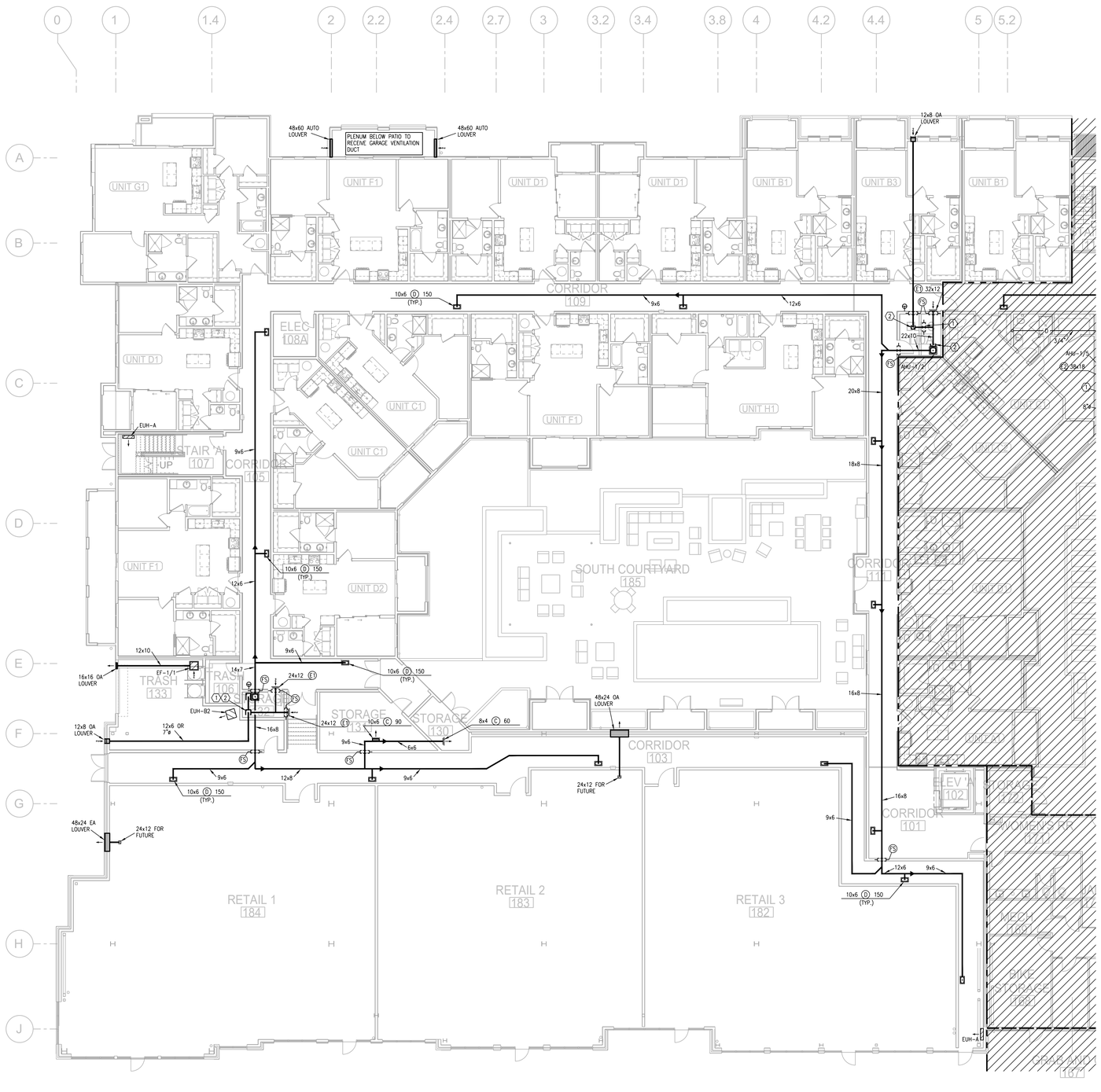
STATE OF MISSOURI
RICHARD R. HAUCHMAN
NUMBER PE-2005020056
PROFESSIONAL ENGINEER
07-29-19

NOTES:

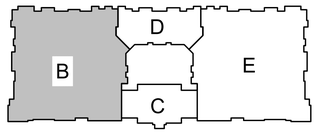
1. ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE DIFFUSER NECK LISTED AND HAVE A MANUAL BALANCING DAMPER WHERE NOT INTEGRAL WITH THE DIFFUSER.
2. SEE THE ARCHITECTURAL, LIGHTING AND STRUCTURAL DRAWINGS FOR CLEARANCES.
3. MAINTAIN 3 FEET CLEARANCE FROM EXHAUST DUCTS TO BUILDING OPENINGS AND 10 FEET TO AIR INTAKES.
4. ROUTE NO DUCTS OVER ELECTRICAL EQUIPMENT.
5. FLEXIBLE DUCT LENGTHS SHALL NOT EXCEED 8 FEET AND SHALL BE AS STRAIGHT AS POSSIBLE AND NOT KINKED AT DIFFUSER OR TAKE-OFF.

LEGEND:

1. OUTSIDE AIR CONTROL AND BALANCING DAMPER.
2. DUCT WITH CRD AT RATED MEMBRANE.
3. ROUTE COND. TO LAV TAILPIECE OR WASHER BOX.




1 **FIRST FLOOR PLAN - AREA B**
3/32"=1'-0"
HVAC
NORTH




**KEY PLAN**
NO SCALE
NORTH

LS&A
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Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lsapa@lsapa.com
LSA PROJECT NO. 1904023

ARCHITECT — TR¡ ARCHITECTS
STRUCTURAL ENGINEER — BOB D CAMPBELL & COMPANY
CIVIL ENGINEER — RENAISSANCE INFRASTRUCTURE CONSULTING
GENERAL CONTRACTOR — BRINKMANN CONSTRUCTORS
MECHANICAL ENGINEER — LATIMER SOMMERS & ASSOCIATES
PLUMBING ENGINEER — LATIMER SOMMERS & ASSOCIATES
ELECTRICAL ENGINEER — LATIMER SOMMERS & ASSOCIATES

Pearl COMPANIES

# Summit at West Pryor

TR¡ ARCHITECTS


TR¡ Architects
9812 Manchester Road
St. Louis, Missouri 63119
T: 314-395-9750
F: 314-395-9751
www.tracrchitects.com

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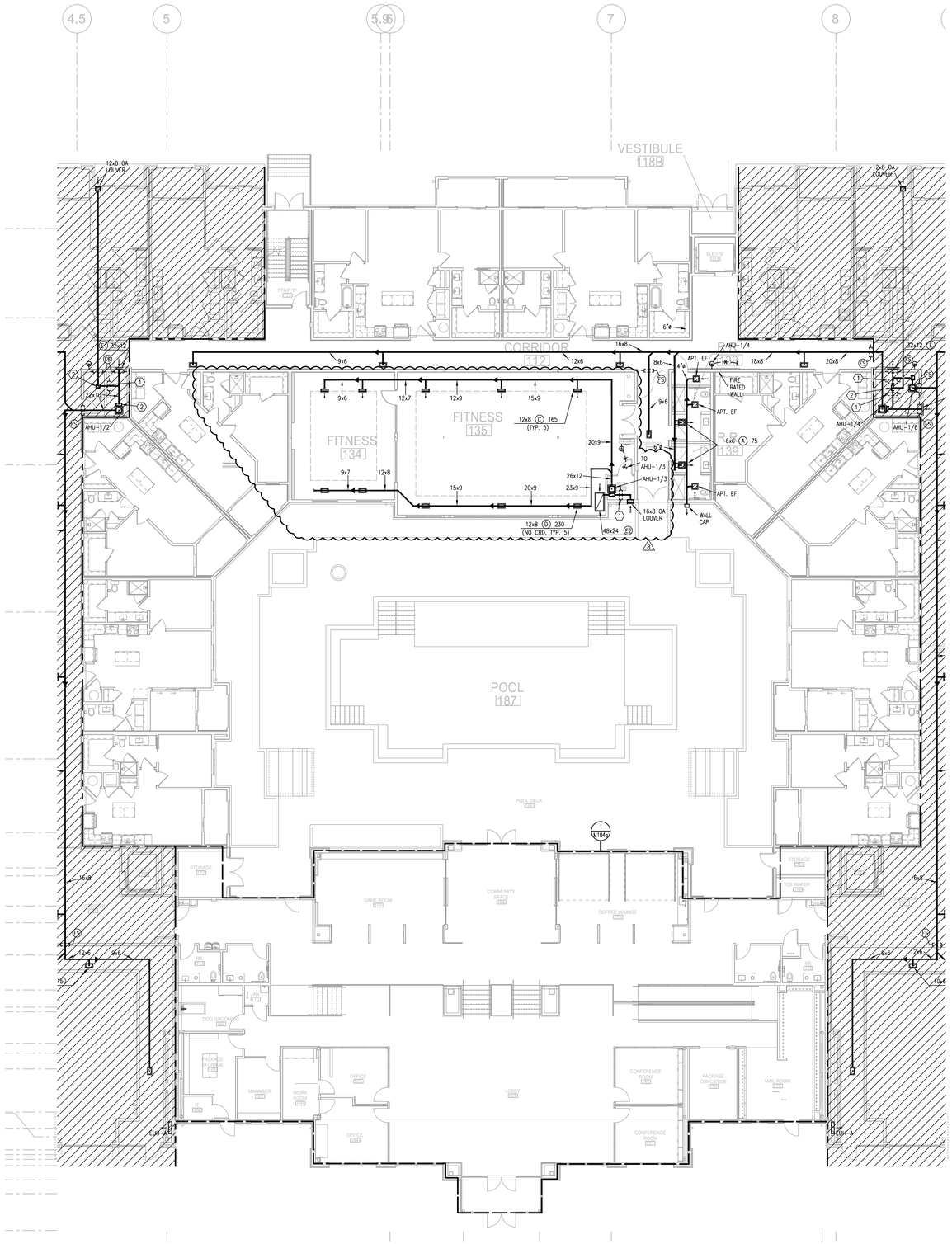
DATE: 07.29.19
REVISIONS

DWG BY: RRB
TR¡ PROJECT NO.: 18-046
SHEET NO.: M103
FIRST FLOOR PLAN - AREA B - HVAC




## 1 FIRST FLOOR PLAN - AREA C/D

3/32"=1'-0"

HVAC

NORTH

NOTES:

1. ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE DIFFUSER NECK LISTED AND HAVE A MANUAL BALANCING DAMPER WHERE NOT INTEGRAL WITH THE DIFFUSER.
2. SEE THE ARCHITECTURAL, LIGHTING AND STRUCTURAL DRAWINGS FOR CLEARANCES.
3. MAINTAIN 3 FEET CLEARANCE FROM EXHAUST DUCTS TO BUILDING OPENINGS AND 10 FEET TO AIR INTAKES.
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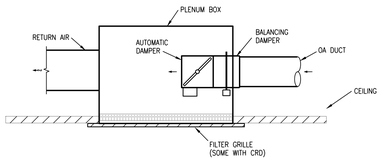
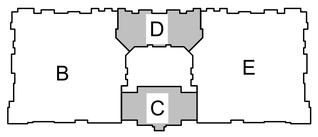
LEGEND:

1. OUTSIDE AIR CONTROL AND BALANCING DAMPER.
2. DUCT WITH CRD AT RATED MEMBRANE.
3. ROUTE COND. TO LAV TAILPIECE OR WASHER BOX.




## 2 RETURN PLENUM DAMPER CONTROL

NO SCALE




## KEY PLAN

NO SCALE

NORTH


LS&A
Latimer Sommers & Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
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FAX: (785) 233-0647
Email: lsapa@lsapa.com


LSA PROJECT NO. 1904023

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER
4-3-20

ARCHITECT: TR.i ARCHITECTS
STRUCTURAL ENGINEER: BOB D CAMPBELL & COMPANY
CIVIL ENGINEER: RENAISSANCE INFRASTRUCTURE CONSULTING
GENERAL CONTRACTOR: BRINKMANN CONSTRUCTORS
MECHANICAL ENGINEER: LATIMER SOMMERS & ASSOCIATES
PLUMBING ENGINEER: LATIMER SOMMERS & ASSOCIATES
ELECTRICAL ENGINEER: LATIMER SOMMERS & ASSOCIATES

Pearl COMPANIES

# Summit at West Pryor

TR.i ARCHITECTS


TR.i Architects
9812 Manchester Road
St. Louis, Missouri 63119
T: 314-395-9750
F: 314-395-9751
www.traarchitects.com


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DATE: 09.12.19

REVISIONS

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| 2 REVISION 1 | 12.20.19 |
| 3 REVISION 3 | 04.03.20 |

DWG BY: RRB

TR.i PROJECT NO.: 18-046

SHEET NO.

M104

FIRST FLOOR PLAN - AREA C/D - HVAC

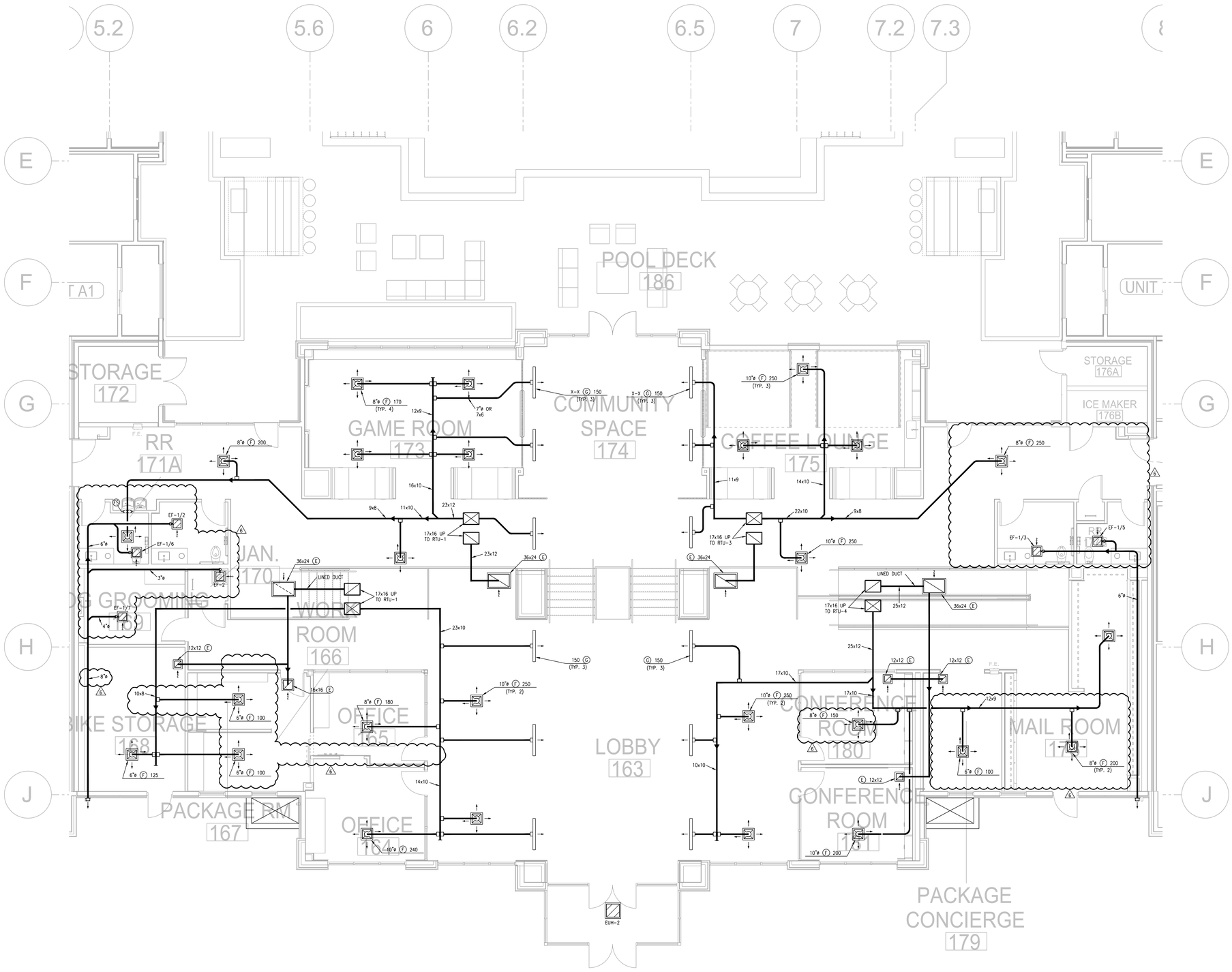
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
Date: 01/13/2020

NOTES:

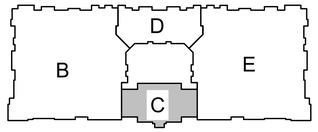
1. ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE DIFFUSER NECK LISTED AND HAVE A MANUAL BALANCING DAMPER WHERE NOT INTEGRAL WITH THE DIFFUSER.
2. SEE THE ARCHITECTURAL, LIGHTING AND STRUCTURAL DRAWINGS FOR CLEARANCES.
3. MAINTAIN 3 FEET CLEARANCE FROM EXHAUST DUCTS TO BUILDING OPENINGS AND 10 FEET TO AIR INTAKES.
4. ROUTE NO DUCTS OVER ELECTRICAL EQUIPMENT.
5. FLEXIBLE DUCT LENGTHS SHALL NOT EXCEED 8 FEET AND SHALL BE AS STRAIGHT AS POSSIBLE AND NOT KINKED AT DIFFUSER OR TAKE-OFF.

LEGEND:

1. OUTSIDE AIR CONTROL AND BALANCING DAMPER.
2. DUCT WITH CRD AT RATED MEMBRANE.
3. ROUTE COND. TO LAV TAILPIECE OR WASHER BOX.




1 **PARTIAL FIRST FLOOR PLAN - AREA C**
3/16"=1'-0"
HVAC
NORTH




**KEY PLAN**
NO SCALE
NORTH


LS&A
Latimer Sommers & Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lsapa@lsapa.com


LSA PROJECT NO. 1904023

STATE OF MISSOURI
RICHARD R. BEARMORE
NO. E-27600
PROFESSIONAL ENGINEER
12-20-2019

| | |
|---|---|
| ARCHITECT | TR;i ARCHITECTS |
| STRUCTURAL ENGINEER | BOB D CAMPBELL & COMPANY |
| CIVIL ENGINEER | RENAISSANCE INFRASTRUCTURE CONSULTING |
| GENERAL CONTRACTOR | BRINKMANN CONSTRUCTORS |
| MECHANICAL ENGINEER | LATIMER SOMMERS & ASSOCIATES |
| PLUMBING ENGINEER | LATIMER SOMMERS & ASSOCIATES |
| ELECTRICAL ENGINEER | LATIMER SOMMERS & ASSOCIATES |

Pearl COMPANIES

# Summit at West Pryor

TR;i ARCHITECTS


TR;i Architects
9812 Manchester Road
St. Louis, Missouri 63119
T: 314-395-9750
F: 314-395-9751
www.trearchitects.com

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**DATE:** 09.12.19

**REVISIONS**

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|---|---|
| 6 REVISION 1 | 12.20.19 |

**DWG BY** RRB

**TR;i PROJECT NO.** 18-046

**SHEET NO.**

M104a

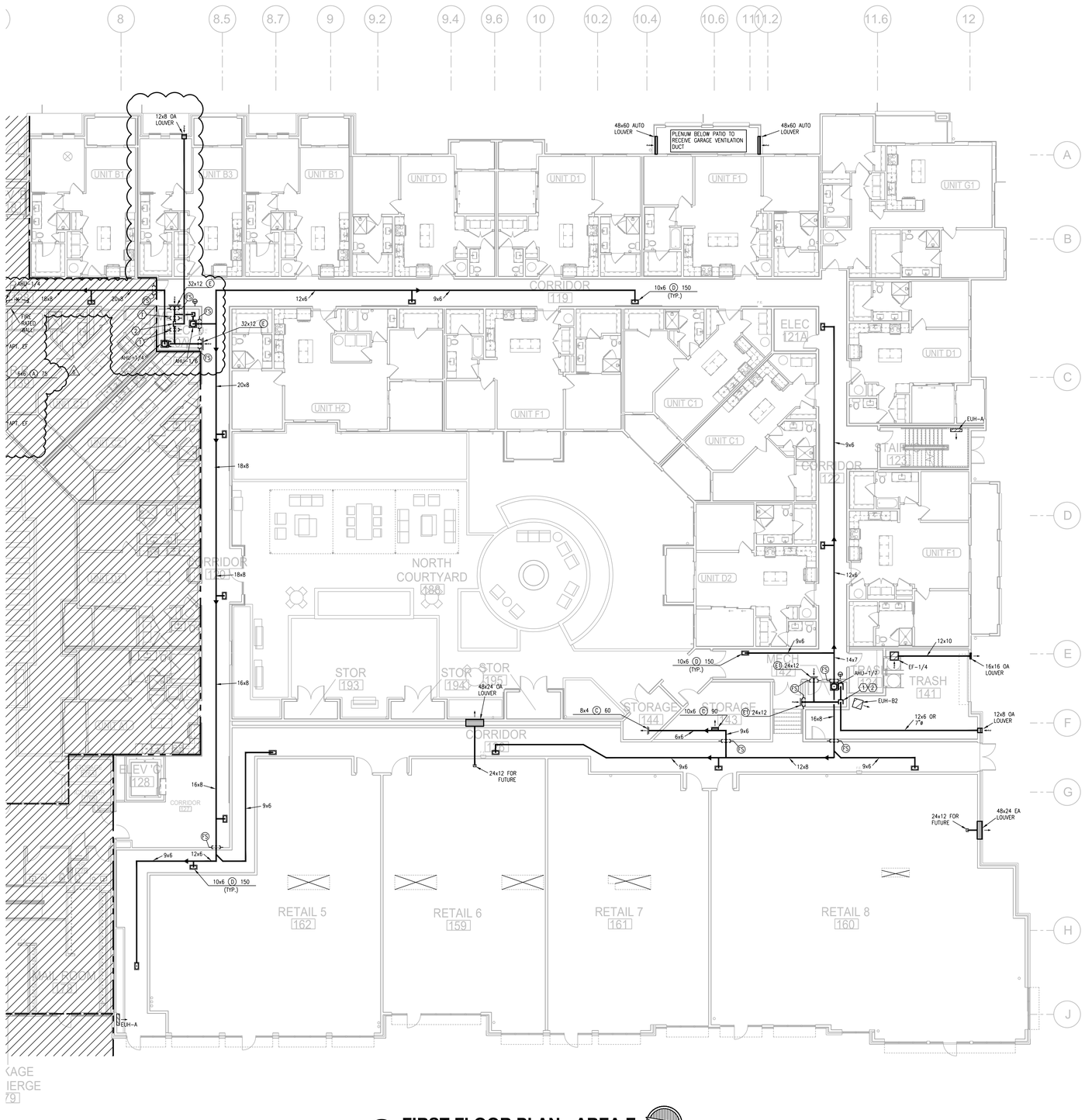
**FIRST FLOOR PLAN - AREA C - HVAC**

NOTES:

1. ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE DIFFUSER NECK LISTED AND HAVE A MANUAL BALANCING DAMPER WHERE NOT INTEGRAL WITH THE DIFFUSER.
2. SEE THE ARCHITECTURAL, LIGHTING AND STRUCTURAL DRAWINGS FOR CLEARANCES.
3. MAINTAIN 3 FEET CLEARANCE FROM EXHAUST DUCTS TO BUILDING OPENINGS AND 10 FEET TO AIR INTAKES.
4. ROUTE NO DUCTS OVER ELECTRICAL EQUIPMENT.
5. FLEXIBLE DUCT LENGTHS SHALL NOT EXCEED 8 FEET AND SHALL BE AS STRAIGHT AS POSSIBLE AND NOT KINKED AT DIFFUSER OR TAKE-OFF.

LEGEND:

1. OUTSIDE AIR CONTROL AND BALANCING DAMPER.
2. DUCT WITH CRD AT RATED MEMBRANE.
3. ROUTE COND. TO LAV TAILPIECE OR WASHER BOX.




1 **FIRST FLOOR PLAN - AREA E**
3/32"=1'-0"
HVAC
NORTH




**KEY PLAN**
NO SCALE
NORTH


LS&A
Latimer Sommers & Associates, P.A.
CONSULTING ENGINEERS
3630 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lsapa@lsapa.com


LSA PROJECT NO. 1904023

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/13/2020

STATE OF MISSOURI
RICHARD R. BEARDMORE
NO. E-29000
PROFESSIONAL ENGINEER
12-20-2019

| | |
|---|---|
| ARCHITECT | TR,i ARCHITECTS |
| STRUCTURAL ENGINEER | BOB D CAMPBELL & COMPANY |
| CIVIL ENGINEER | RENAISSANCE INFRASTRUCTURE CONSULTING |
| GENERAL CONTRACTOR | BRINKMANN CONSTRUCTORS |
| MECHANICAL ENGINEER | LATIMER SOMMERS & ASSOCIATES |
| PLUMBING ENGINEER | LATIMER SOMMERS & ASSOCIATES |
| ELECTRICAL ENGINEER | LATIMER SOMMERS & ASSOCIATES |

Pearl COMPANIES

# Summit at West Pryor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TR,i Architects
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St. Louis, Missouri 63119
T: 314-395-9750
F: 314-395-9751
www.triarchitects.com

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DATE: 09.12.19

REVISIONS

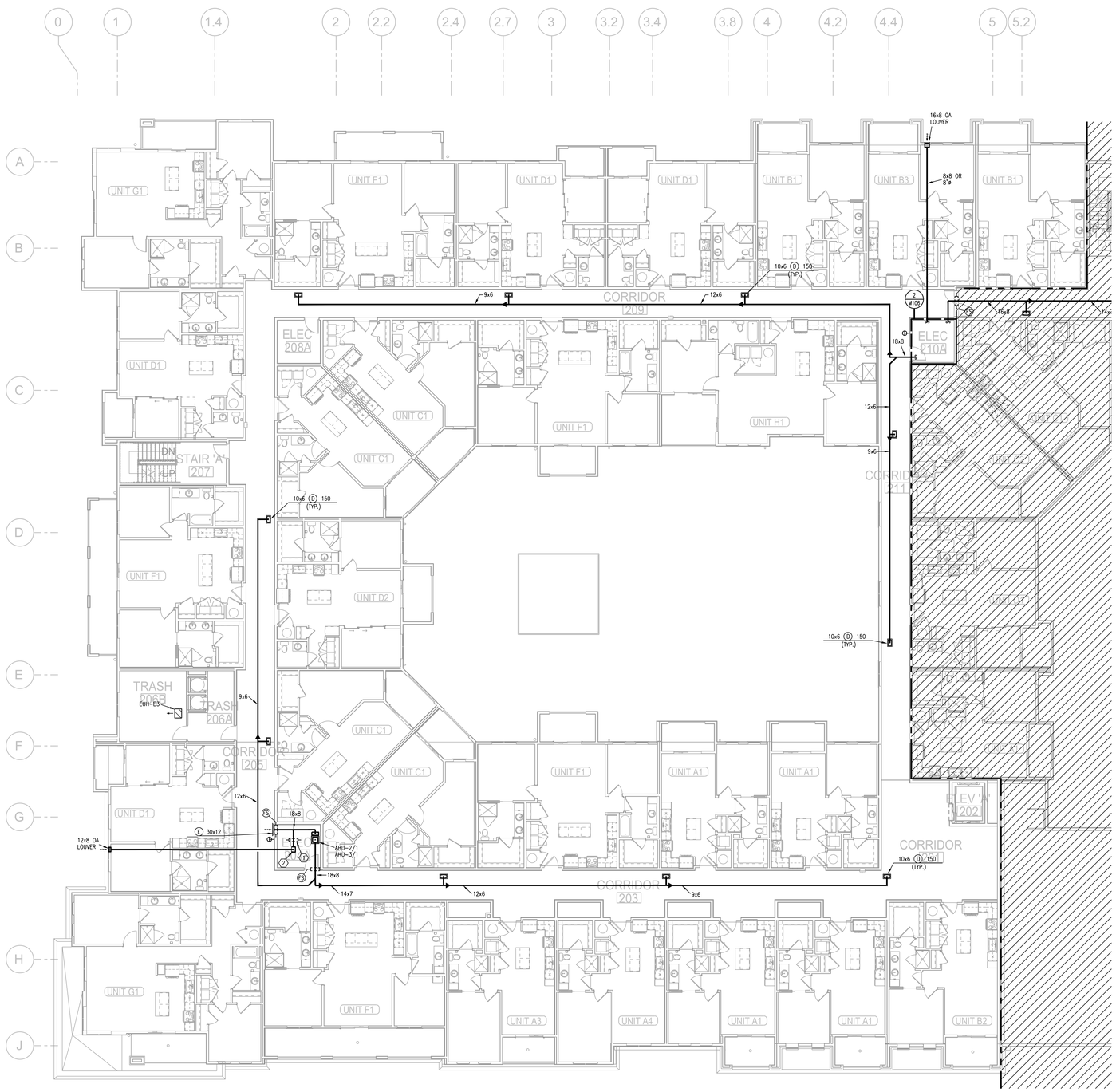
DWG BY RRB

TR,i PROJECT NO. 18-046

SHEET NO.

M105

FIRST FLOOR PLAN - AREA E - HVAC




## 1 SECOND FLOOR PLAN - AREA B

3/32"=1'-0" (THIRD FLOOR SIMILAR) HVAC

NORTH

NOTES:

1. ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE DIFFUSER NECK LISTED AND HAVE A MANUAL BALANCING DAMPER WHERE NOT INTEGRAL WITH THE DIFFUSER.
2. SEE THE ARCHITECTURAL, LIGHTING AND STRUCTURAL DRAWINGS FOR CLEARANCES.
3. MAINTAIN 3 FEET CLEARANCE FROM EXHAUST DUCTS TO BUILDING OPENINGS AND 10 FEET TO AIR INTAKES.
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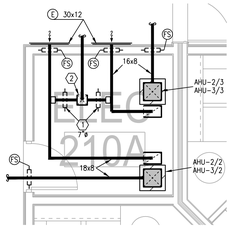
5. FLEXIBLE DUCT LENGTHS SHALL NOT EXCEED 8 FEET AND SHALL BE AS STRAIGHT AS POSSIBLE AND NOT KINKED AT DIFFUSER OR TAKE-OFF.

LEGEND:

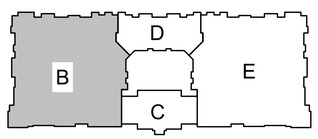
1. OUTSIDE AIR CONTROL AND BALANCING DAMPER.
2. DUCT WITH CRD AT RATED MEMBRANE.
3. ROUTE COND. TO LAV TAILPIECE OR WASHER BOX.




## 2 PARTIAL SECOND FLOOR PLAN

1/4"=1'-0" (THIRD FLOOR SIMILAR) HVAC

NORTH




## KEY PLAN

NO SCALE

NORTH


LS&A Lasmer Sommers & Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lsapa@lsapa.com


LSA PROJECT NO. 1904023

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
Jul 13/2020

STATE OF MISSOURI
RICHARD R. HUNCHAK
NUMBER
PE-2005020456
PROFESSIONAL ENGINEER
07-29-19

ARCHITECT: TR.i ARCHITECTS
STRUCTURAL ENGINEER: BOB D CAMPBELL & COMPANY
CIVIL ENGINEER: RENAISSANCE INFRASTRUCTURE CONSULTING
GENERAL CONTRACTOR: BRINKMANN CONSTRUCTORS
MECHANICAL ENGINEER: LATIMER SOMMERS & ASSOCIATES
PLUMBING ENGINEER: LATIMER SOMMERS & ASSOCIATES
ELECTRICAL ENGINEER: LATIMER SOMMERS & ASSOCIATES

Pearl COMPANIES

# Summit at West Pryor

TR.i ARCHITECTS


TR.i Architects
9612 Manchester Road
St. Louis, Missouri 63119
T: 314-395-9750
F: 314-395-9751
www.traarchitects.com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DATE: 07.29.19

REVISIONS ___

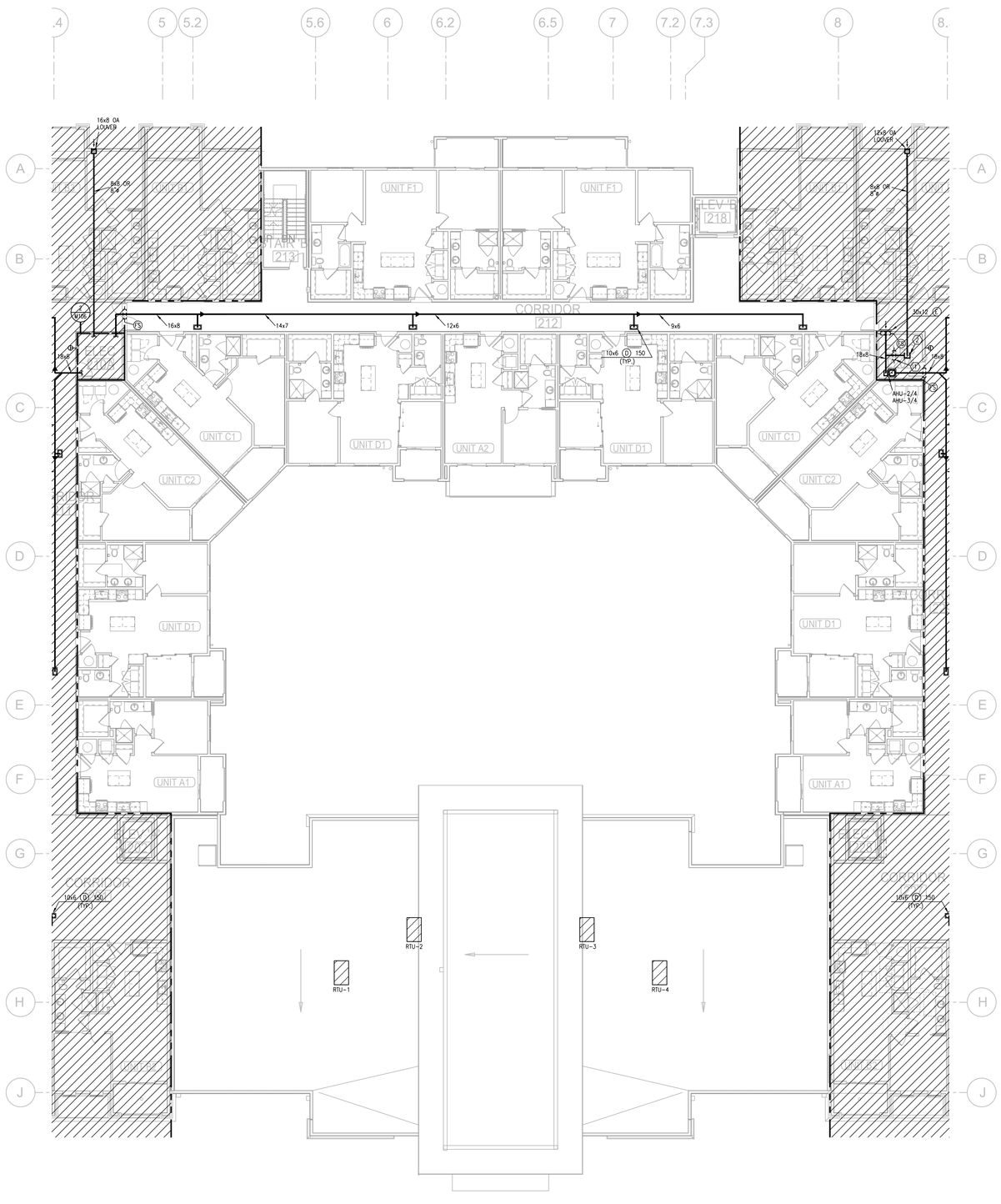
DWG BY RRB

TR.i PROJECT NO. 18-046

SHEET NO.

M106

SECOND FLOOR PLAN - AREA B - HVAC




1 **SECOND FLOOR PLAN - AREA C/D**
3/32"=1'-0" (THIRD FLOOR SIMILAR) HVAC

NORTH

NOTES:

1. ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE DIFFUSER NECK LISTED AND HAVE A MANUAL BALANCING DAMPER WHERE NOT INTEGRAL WITH THE DIFFUSER.
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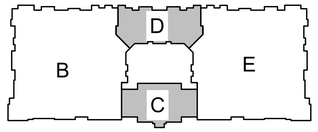
LEGEND:

1. OUTSIDE AIR CONTROL AND BALANCING DAMPER.
2. DUCT WITH CRD AT RATED MEMBRANE.
3. ROUTE COND. TO LAV TAILPIECE OR WASHER BOX.




**KEY PLAN**
NO SCALE

NORTH


LS&A
Lasmer Sommers & Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lsapa@lsapa.com


LSA PROJECT NO. 1904023

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
Date: 08/13/2020

STATE OF MISSOURI
RICHARD R. HAUCK
NUMBER
PE-2005030056
PROFESSIONAL ENGINEER
07-29-19

| | |
|---|---|
| TR.i ARCHITECTS | ARCHITECT |
| BOB D CAMPBELL & COMPANY | STRUCTURAL ENGINEER |
| RENAISSANCE INFRASTRUCTURE CONSULTING | CIVIL ENGINEER |
| BRINKMANN CONSTRUCTORS | GENERAL CONTRACTOR |
| LATIMER SOMMERS & ASSOCIATES | MECHANICAL ENGINEER |
| LATIMER SOMMERS & ASSOCIATES | PLUMBING ENGINEER |
| LATIMER SOMMERS & ASSOCIATES | ELECTRICAL ENGINEER |

Pearl COMPANIES

# Summit at West Pryor

TR.i ARCHITECTS


TR.i Architects
9812 Manchester Road
St. Louis, Missouri 63119
T: 314-395-9750
F: 314-395-9751
www.traiarchitects.com

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**DATE:** 07.29.19

**REVISIONS** ___

**DWG BY** RRB

**TR.i PROJECT NO.** 18-046

**SHEET NO.**

M107

**SECOND FLOOR PLAN - AREA C/D - HVAC**

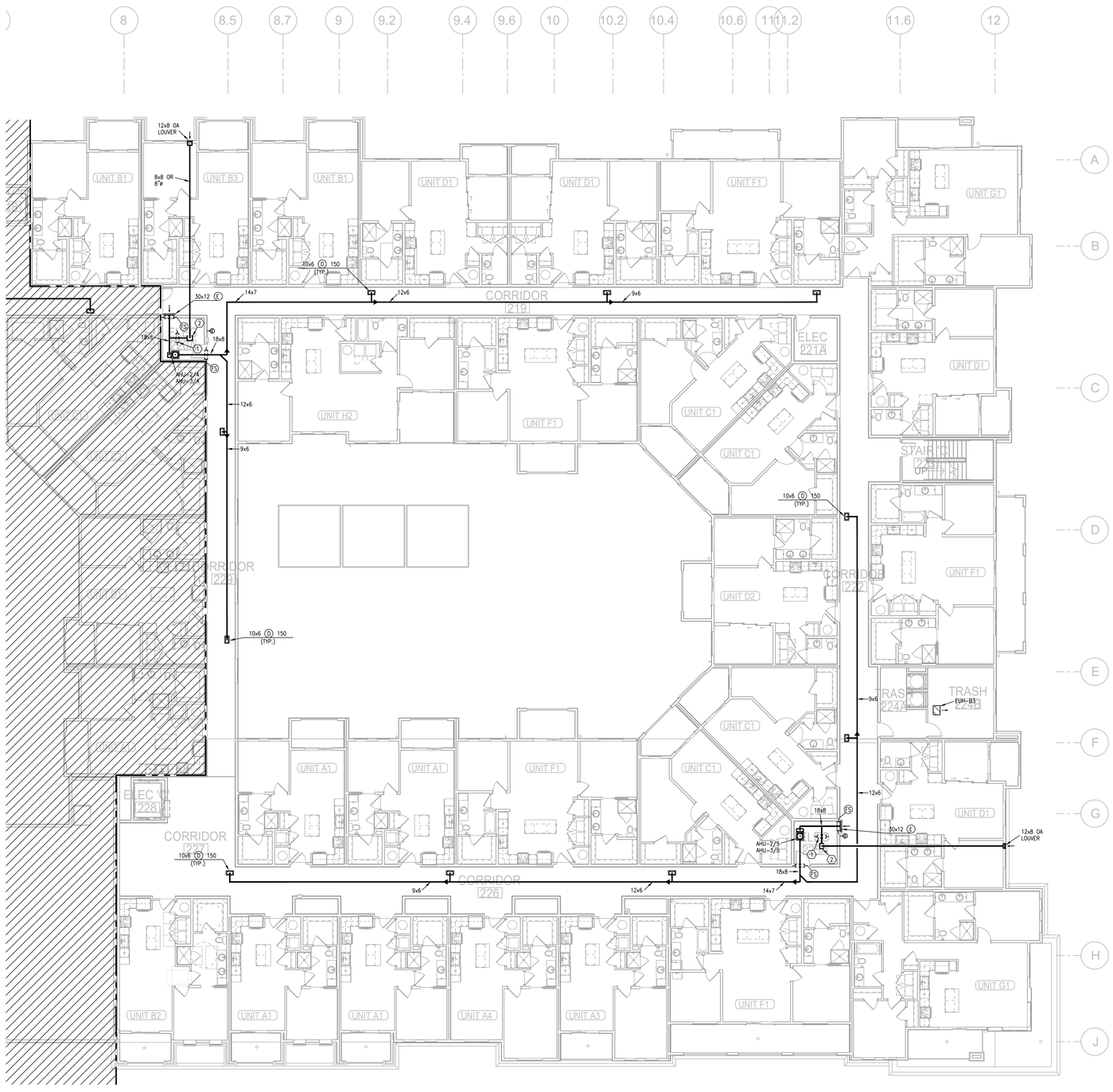
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
Jul 13, 2020

NOTES:

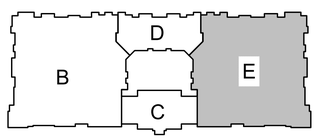
1. ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE DIFFUSER NECK LISTED AND HAVE A MANUAL BALANCING DAMPER WHERE NOT INTEGRAL WITH THE DIFFUSER.
2. SEE THE ARCHITECTURAL, LIGHTING AND STRUCTURAL DRAWINGS FOR CLEARANCES.
3. MAINTAIN 3 FEET CLEARANCE FROM EXHAUST DUCTS TO BUILDING OPENINGS AND 10 FEET TO AIR INTAKES.
4. ROUTE NO DUCTS OVER ELECTRICAL EQUIPMENT.
5. FLEXIBLE DUCT LENGTHS SHALL NOT EXCEED 8 FEET AND SHALL BE AS STRAIGHT AS POSSIBLE AND NOT KINKED AT DIFFUSER OR TAKE-OFF.

LEGEND:

1. OUTSIDE AIR CONTROL AND BALANCING DAMPER.
2. DUCT WITH CRD AT RATED MEMBRANE.
3. ROUTE COND. TO LAV TAILPIECE OR WASHER BOX.




1 **SECOND FLOOR PLAN - AREA E**
3/32"=1'-0" (THIRD FLOOR SIMILAR) HVAC
NORTH




**KEY PLAN**
NO SCALE
NORTH

LS&A
Lasmer Sommers & Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lsapa@lsapa.com
LSA PROJECT NO. 1904023

STATE OF MISSOURI
RICHARD R. HAUCK
NUMBER PE-2005020256
PROFESSIONAL ENGINEER
07-29-19

| | |
|---|---|
| ARCHITECT | TR.i ARCHITECTS |
| STRUCTURAL ENGINEER | BOB D CAMPBELL & COMPANY |
| CIVIL ENGINEER | RENAISSANCE INFRASTRUCTURE CONSULTING |
| GENERAL CONTRACTOR | BRINKMANN CONSTRUCTORS |
| MECHANICAL ENGINEER | LATIMER SOMMERS & ASSOCIATES |
| PLUMBING ENGINEER | LATIMER SOMMERS & ASSOCIATES |
| ELECTRICAL ENGINEER | LATIMER SOMMERS & ASSOCIATES |

Pearl COMPANIES

# Summit at West Pryor

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www.traarchitects.com

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DATE: 07.29.19

REVISIONS ___

DWG BY RRB

TR.i PROJECT NO. 18-046

SHEET NO.

M108

SECOND FLOOR PLAN - AREA E - HVAC

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
Jul 13/2020

NOTES:

1. ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE DIFFUSER NECK LISTED AND HAVE A MANUAL BALANCING DAMPER WHERE NOT INTEGRAL WITH THE DIFFUSER.
2. SEE THE ARCHITECTURAL, LIGHTING AND STRUCTURAL DRAWINGS FOR CLEARANCES.
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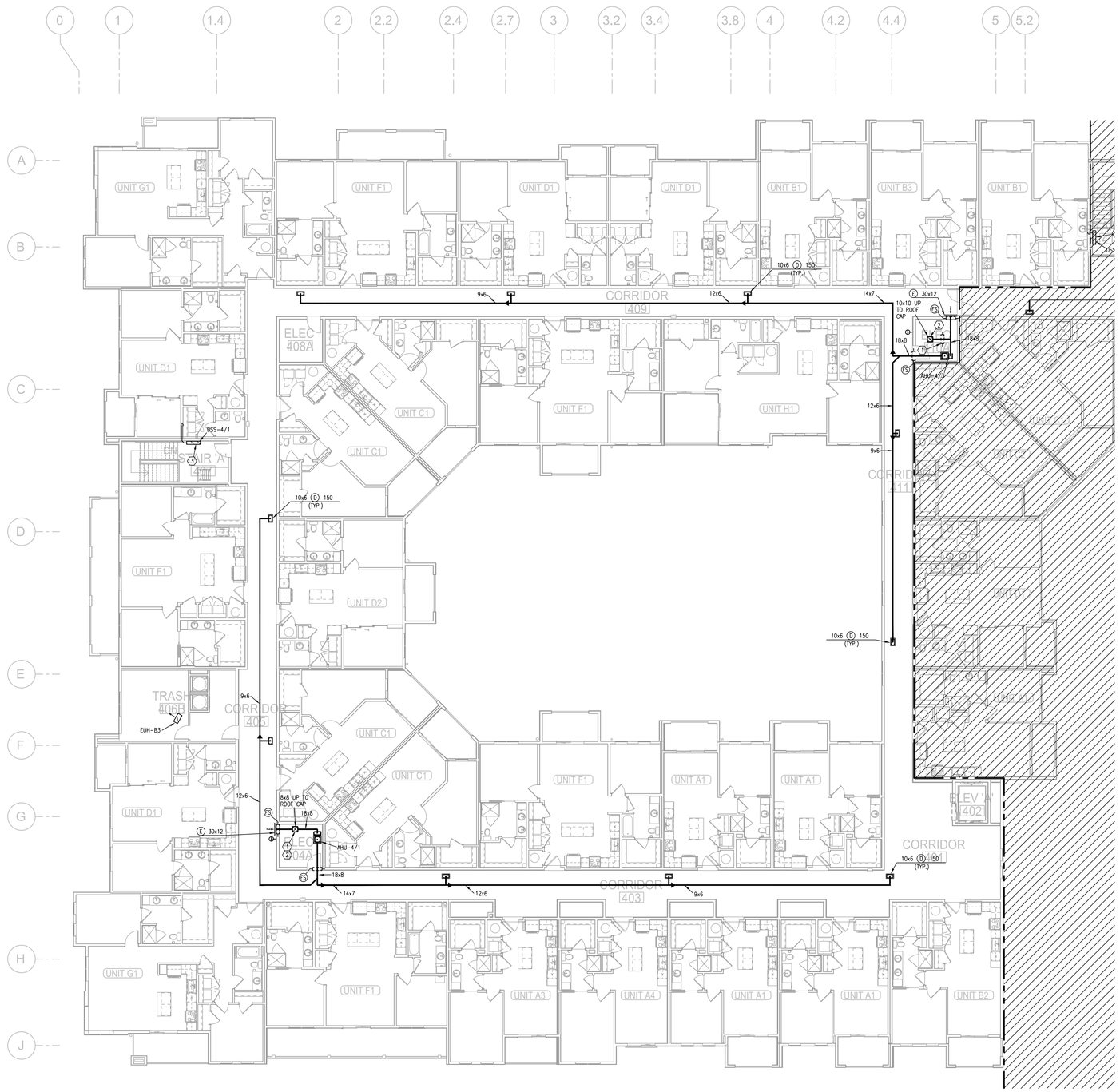
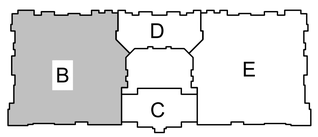
5. FLEXIBLE DUCT LENGTHS SHALL NOT EXCEED 8 FEET AND SHALL BE AS STRAIGHT AS POSSIBLE AND NOT KINKED AT DIFFUSER OR TAKE-OFF.

LEGEND:

1. OUTSIDE AIR CONTROL AND BALANCING DAMPER.
2. DUCT WITH CRD AT RATED MEMBRANE.
3. ROUTE COND. TO LAV TAILPIECE OR WASHER BOX.




1 FOURTH FLOOR PLAN - AREA B
3/32"=1'-0"
HVAC
NORTH




KEY PLAN
NO SCALE
NORTH

LS&A
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Email: lsapa@lsapa.com
LSA PROJECT NO. 1904023

STATE OF MISSOURI
RICHARD R. HAUCK
NUMBER PE-2005020496
PROFESSIONAL ENGINEER
07-29-19

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|---|---|
| TR¡ ARCHITECTS | ARCHITECT |
| BOB D CAMPBELL & COMPANY | STRUCTURAL ENGINEER |
| RENAISSANCE INFRASTRUCTURE CONSULTING | CIVIL ENGINEER |
| BRINKMANN CONSTRUCTORS | GENERAL CONTRACTOR |
| LATIMER SOMMERS & ASSOCIATES | MECHANICAL ENGINEER |
| LATIMER SOMMERS & ASSOCIATES | PLUMBING ENGINEER |
| LATIMER SOMMERS & ASSOCIATES | ELECTRICAL ENGINEER |

Pearl COMPANIES

# Summit at West Pryor

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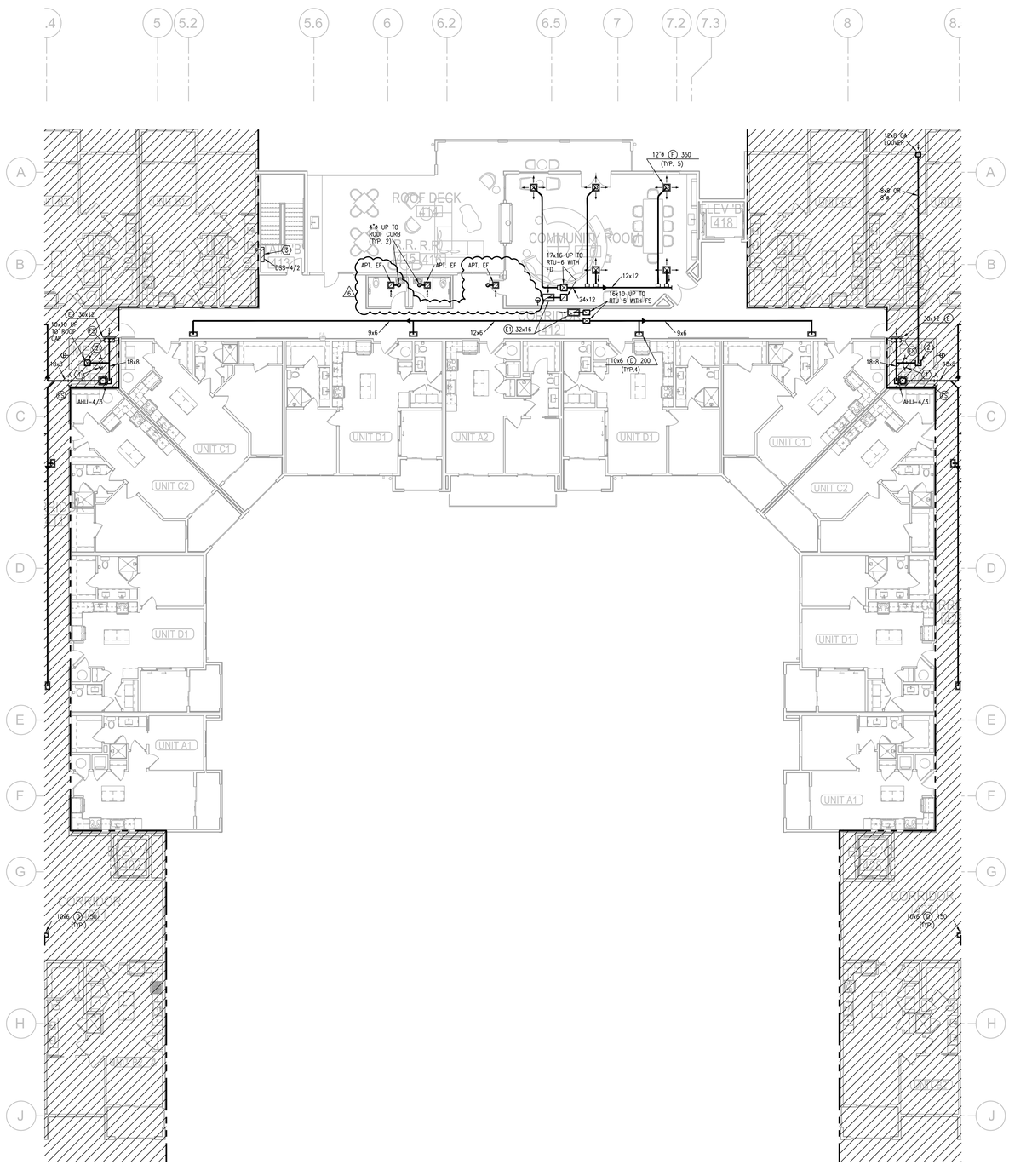
DWG BY RRB

TR¡ PROJECT NO. 18-046

SHEET NO.

M109

FOURTH FLOOR PLAN - AREA B - HVAC




1 **FOURTH FLOOR PLAN - AREA C/D**
3/32"=1'-0"
HVAC

NORTH

NOTES:

1. ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE DIFFUSER NECK LISTED AND HAVE A MANUAL BALANCING DAMPER WHERE NOT INTEGRAL WITH THE DIFFUSER.
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LEGEND:

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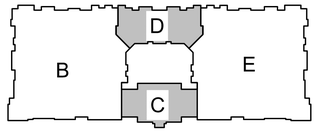
2. DUCT WITH CRD AT RATED MEMBRANE.
3. ROUTE COND. TO LAV TAILPIECE OR WASHER BOX.




**KEY PLAN**
NO SCALE

NORTH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Latimer Sommers & Associates, P.A.
CONSULTING ENGINEERS
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Topeka, Kansas 66614-3974
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Email: lsapa@lsapa.com


LSA PROJECT NO. 1904023

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/13/2020

STATE OF MISSOURI
RICHARD R. BEARSMORE
NO. E-29980
PROFESSIONAL ENGINEER
12-20-2019

| | |
|---|---|
| TR.i ARCHITECTS | ARCHITECT |
| BOB D CAMPBELL & COMPANY | STRUCTURAL ENGINEER |
| RENAISSANCE INFRASTRUCTURE CONSULTING | CIVIL ENGINEER |
| BRINKMANN CONSTRUCTORS | GENERAL CONTRACTOR |
| LATIMER SOMMERS & ASSOCIATES | MECHANICAL ENGINEER |
| LATIMER SOMMERS & ASSOCIATES | PLUMBING ENGINEER |
| LATIMER SOMMERS & ASSOCIATES | ELECTRICAL ENGINEER |

Pearl COMPANIES

# Summit at West Pryor

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www.triarchitects.com

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**DATE:** 09.12.19

**REVISIONS**

| | | |
|---|---|---|
| 6 | REVISION 1 | 12.20.19 |

**DWG BY** RRB

**TR.i PROJECT NO.** 18-046

**SHEET NO.**

M110

**FOURTH FLOOR PLAN - AREA C/D - HVAC**

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
Date: 08/13/2020

STATE OF MISSOURI
RICHARD R. HUNCHUCK
NUMBER
PE-2005020056
PROFESSIONAL ENGINEER
07-29-19

| | |
|---|---|
| TR,i ARCHITECTS | ARCHITECT |
| BOB D CAMPBELL & COMPANY | STRUCTURAL ENGINEER |
| RENAISSANCE INFRASTRUCTURE CONSULTING | CIVIL ENGINEER |
| BRINKMANN CONSTRUCTORS | GENERAL CONTRACTOR |
| LATIMER SOMMERS & ASSOCIATES | MECHANICAL ENGINEER |
| LATIMER SOMMERS & ASSOCIATES | PLUMBING ENGINEER |
| LATIMER SOMMERS & ASSOCIATES | ELECTRICAL ENGINEER |

Pearl COMPANIES

# Summit at West Pryor

NOTES:

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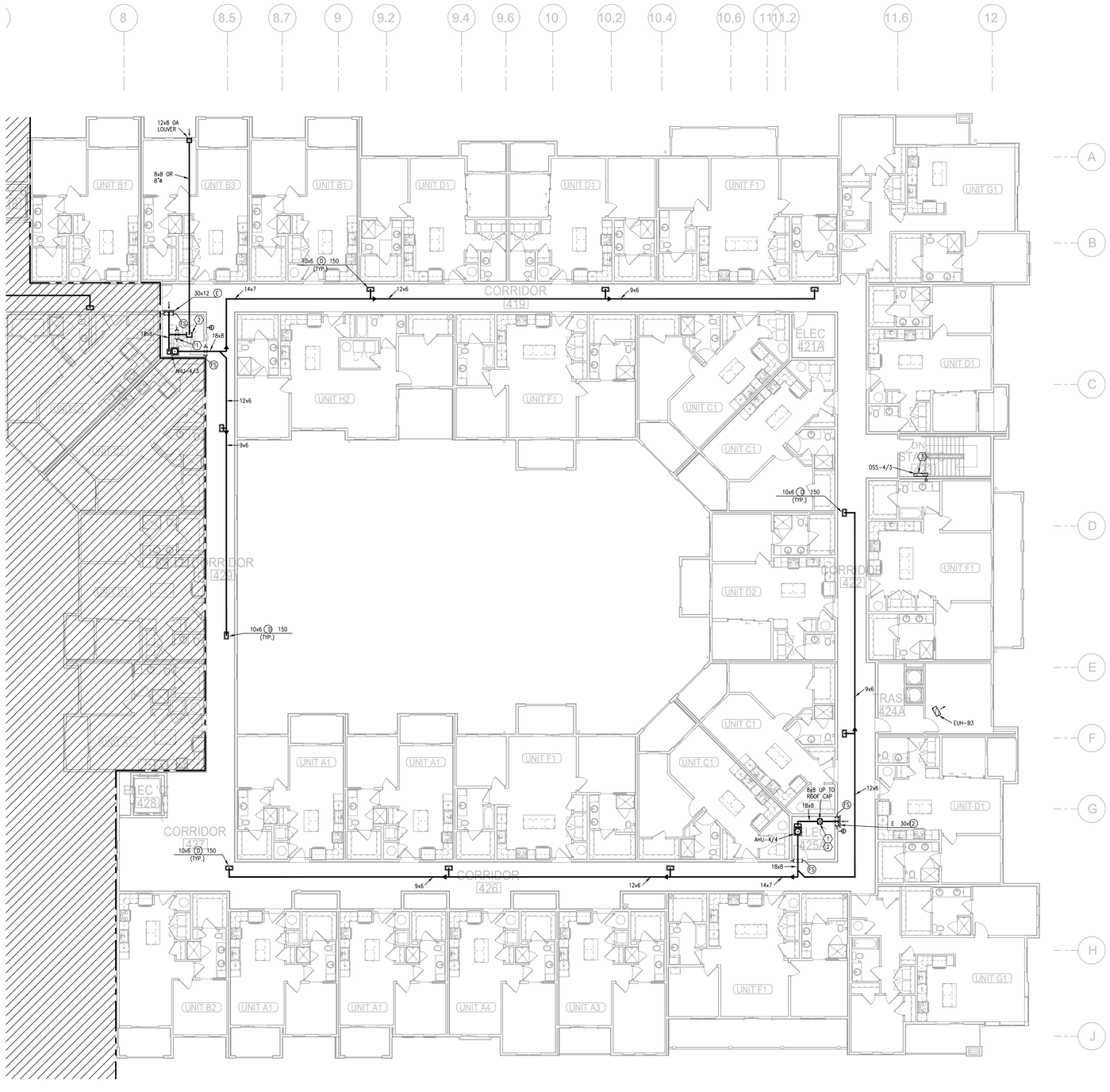
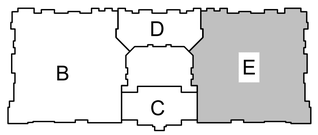
3. ROUTE COND. TO LAV TAILPIECE OR WASHER BOX.




1 **FOURTH FLOOR PLAN - AREA E**
3/32"=1'-0"
HVAC
NORTH




**KEY PLAN**
NO SCALE
NORTH

LS&A Latimer Sommers & Associates, P.A.
CONSULTING ENGINEERS
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Topeka, Kansas 66614-3974
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FAX: (785) 233-0647
Email: lsapa@lsapa.com
LSA PROJECT NO. 1904023

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St. Louis, Missouri 63119
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F: 314-395-9751
www.traiarchitects.com
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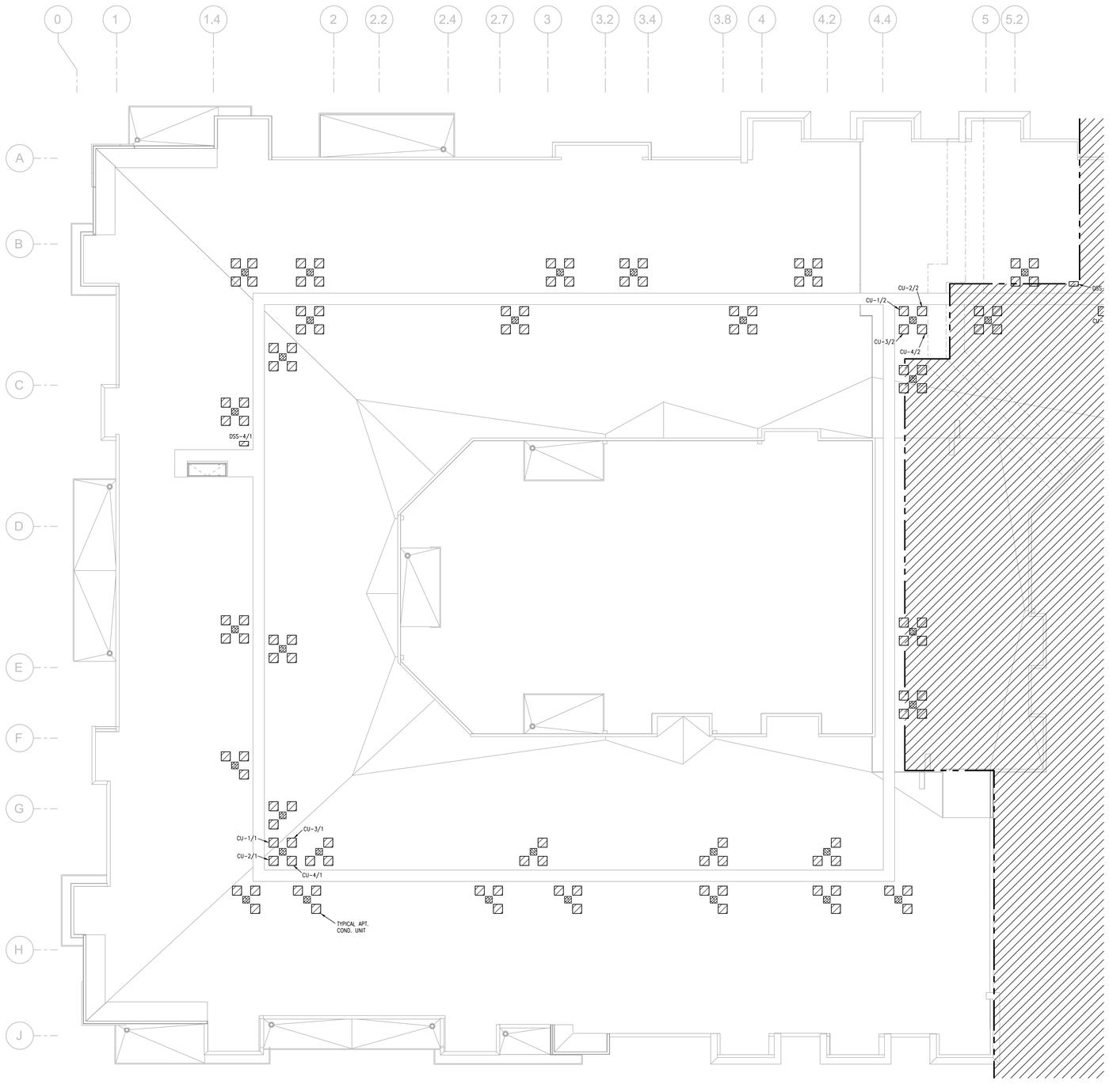
DATE: 07.29.19
REVISIONS

DWG BY RRB
TR,i PROJECT NO. 18-046
SHEET NO.
M111
FOURTH FLOOR PLAN - AREA E - HVAC




1 **ROOF PLAN - AREA B**
3/32" = 1'-0" HVAC

NORTH

NOTES:

1. ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE DIFFUSER NECK LISTED AND HAVE A MANUAL BALANCING DAMPER WHERE NOT INTEGRAL WITH THE DIFFUSER.
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LEGEND:

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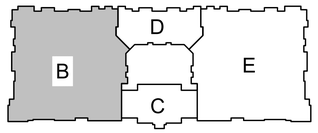
3. ROUTE COND. TO LAV TAILPIECE OR WASHER BOX.




**KEY PLAN**
NO SCALE

NORTH


LS&A
Latimer Sommers & Associates, P.A.
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Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lsapa@lsapa.com


LSA PROJECT NO. 1904023

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
Date: 08/13/2020

STATE OF MISSOURI
RICHARD R. HAUCK
NUMBER
PE-2005000486
PROFESSIONAL ENGINEER
07-29-19

| | |
|---|---|
| ARCHITECT | TR,i ARCHITECTS |
| STRUCTURAL ENGINEER | BOB D CAMPBELL & COMPANY |
| CIVIL ENGINEER | RENAISSANCE INFRASTRUCTURE CONSULTING |
| GENERAL CONTRACTOR | BRINKMANN CONSTRUCTORS |
| MECHANICAL ENGINEER | LATIMER SOMMERS & ASSOCIATES |
| PLUMBING ENGINEER | LATIMER SOMMERS & ASSOCIATES |
| ELECTRICAL ENGINEER | LATIMER SOMMERS & ASSOCIATES |

Pearl COMPANIES

# Summit at West Pryor

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St. Louis, Missouri 63119
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F: 314-395-9751
www.tracrchitects.com

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**DATE:** 07.29.19

**REVISIONS** ___

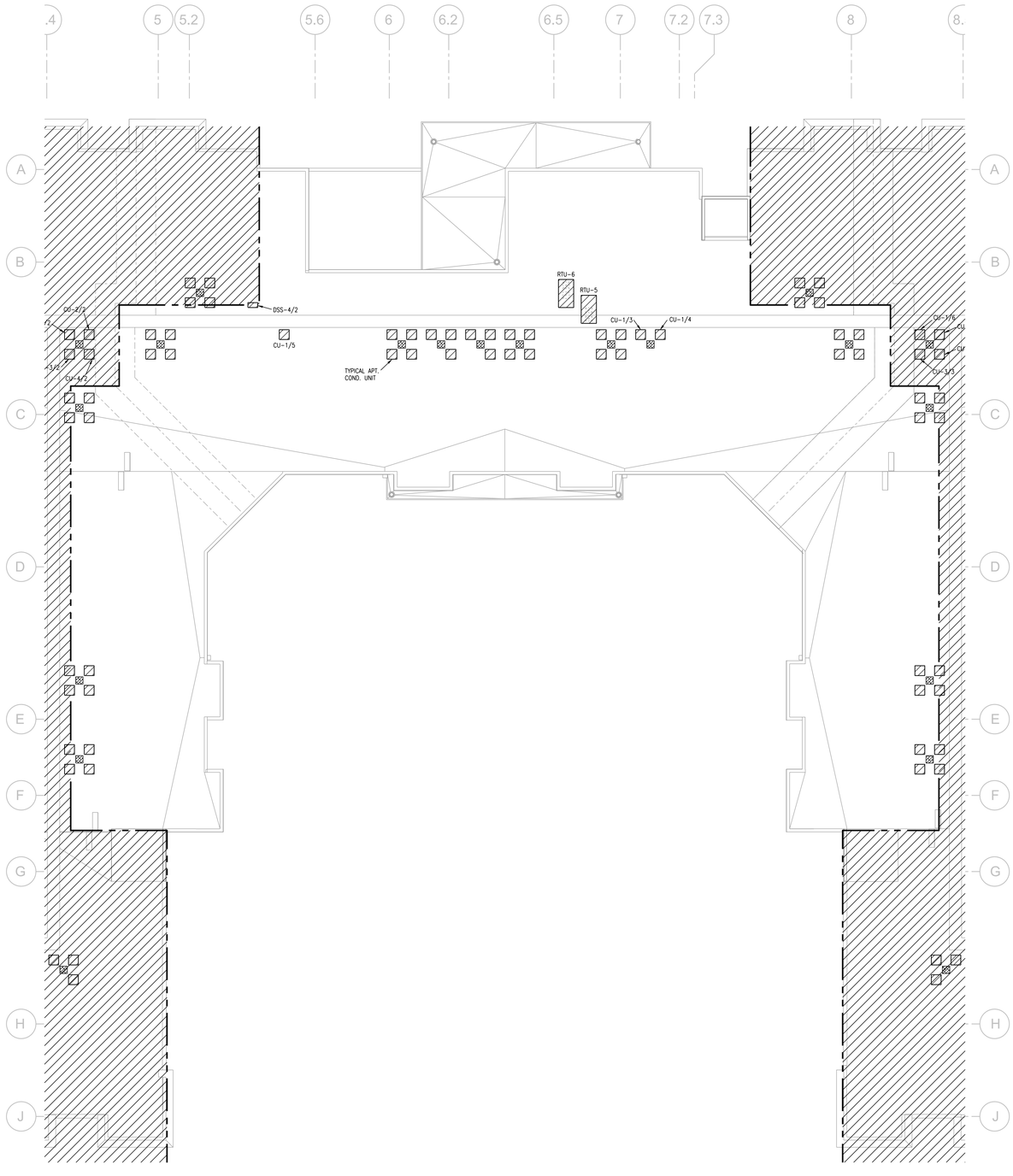
**DWG BY** RRB

**TR,i PROJECT NO.** 18-046

**SHEET NO.**

M112

**ROOF PLAN - AREA B - HVAC**




1 **ROOF PLAN - AREA C/D**
3/32"=1'-0"
HVAC

NORTH

NOTES:

1. ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE DIFFUSER NECK LISTED AND HAVE A MANUAL BALANCING DAMPER WHERE NOT INTEGRAL WITH THE DIFFUSER.
2. SEE THE ARCHITECTURAL, LIGHTING AND STRUCTURAL DRAWINGS FOR CLEARANCES.
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LEGEND:

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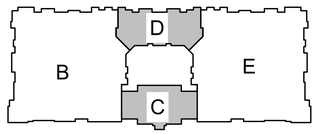


**KEY PLAN**
NO SCALE

NORTH


LS&A
Latimer Sommers & Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lsapa@lsapa.com


LSA PROJECT NO. 1904023

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
Apr 13/2020

STATE OF MISSOURI
RICHARD R. HAUCK
NUMBER
PE-2005030056
PROFESSIONAL ENGINEER
07-29-19

| | |
|---|---|
| ARCHITECT | TR,i ARCHITECTS |
| STRUCTURAL ENGINEER | BOB D CAMPBELL & COMPANY |
| CIVIL ENGINEER | RENAISSANCE INFRASTRUCTURE CONSULTING |
| GENERAL CONTRACTOR | BRINKMANN CONSTRUCTORS |
| MECHANICAL ENGINEER | LATIMER SOMMERS & ASSOCIATES |
| PLUMBING ENGINEER | LATIMER SOMMERS & ASSOCIATES |
| ELECTRICAL ENGINEER | LATIMER SOMMERS & ASSOCIATES |

Pearl COMPANIES

# Summit at West Pryor

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www.traarchitects.com

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**DWG BY** RRB

**TR,i PROJECT NO.** 18-046

**SHEET NO.**

M113

**ROOF PLAN - AREA C/D - HVAC**

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
Date: 08/13/2020

NOTES:

1. ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE DIFFUSER NECK LISTED AND HAVE A MANUAL BALANCING DAMPER WHERE NOT INTEGRAL WITH THE DIFFUSER.
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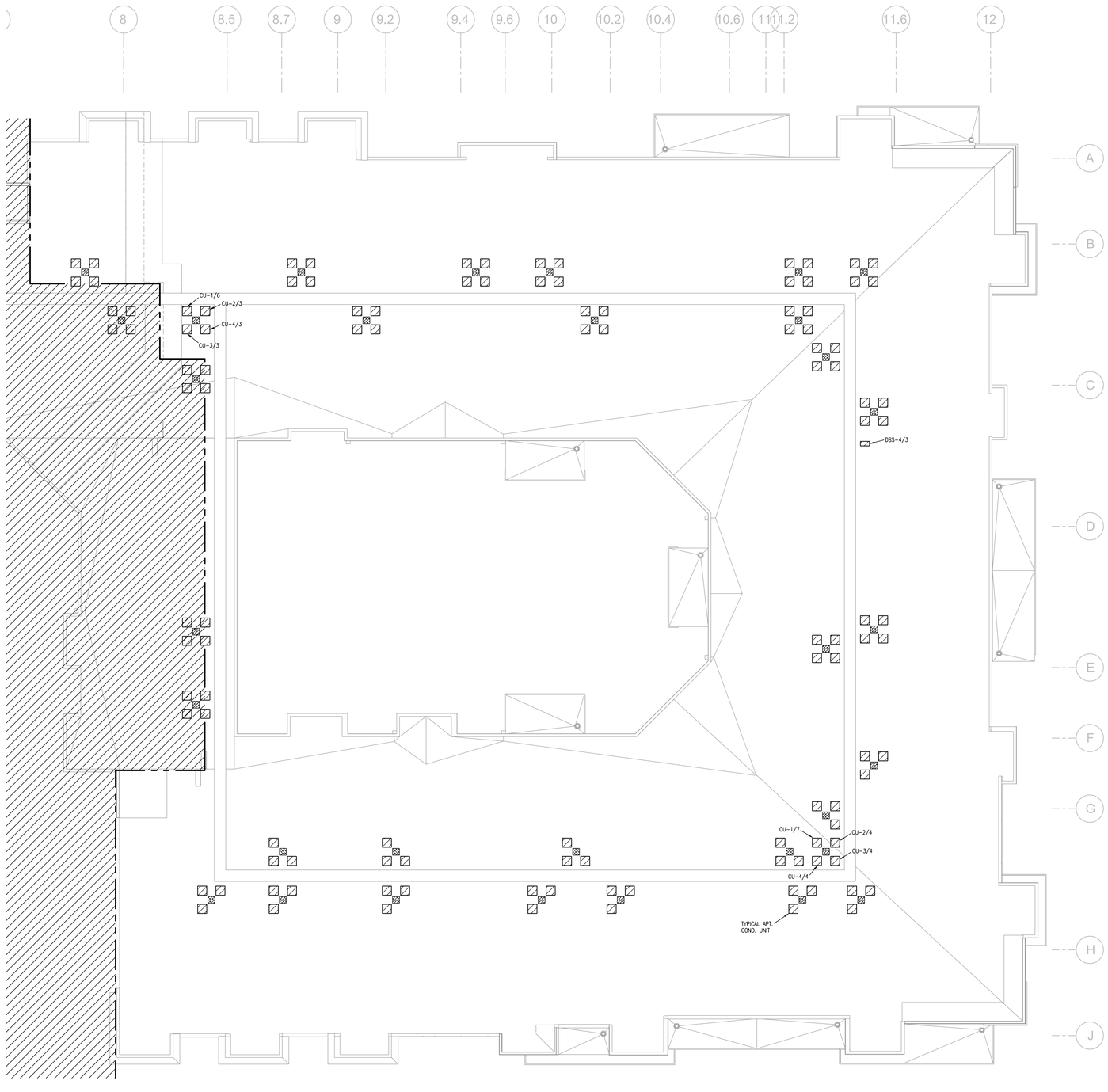
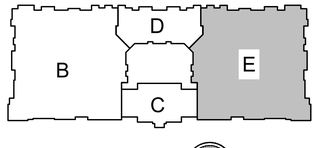
2. DUCT WITH CRD AT RATED MEMBRANE.
3. ROUTE COND. TO LAV TAILPIECE OR WASHER BOX.




1 **ROOF PLAN - AREA E**
3/32"=1'-0" HVAC
NORTH




**KEY PLAN**
NO SCALE
NORTH

LS&A Latimer Sommers & Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3074
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lsapa@lsapa.com
LSA PROJECT NO. 1904023

STATE OF MISSOURI
RICHARD R. HAUCK
NUMBER PE-2005020496
PROFESSIONAL ENGINEER
07-29-19

| | |
|---|---|
| TR,i ARCHITECTS | ARCHITECT |
| BOB D CAMPBELL & COMPANY | STRUCTURAL ENGINEER |
| RENAISSANCE INFRASTRUCTURE CONSULTING | CIVIL ENGINEER |
| BRINKMANN CONSTRUCTORS | GENERAL CONTRACTOR |
| LATIMER SOMMERS & ASSOCIATES | MECHANICAL ENGINEER |
| LATIMER SOMMERS & ASSOCIATES | PLUMBING ENGINEER |
| LATIMER SOMMERS & ASSOCIATES | ELECTRICAL ENGINEER |

Pearl COMPANIES

# Summit at West Pryor

TR,i ARCHITECTS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9812 Manchester Road
St. Louis, Missouri 63119
T: 314-395-9750
F: 314-395-9751
www.triarchitects.com

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**DATE:** 07.29.19

**REVISIONS** ____

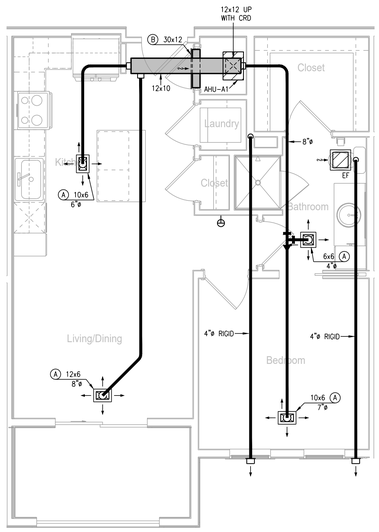
**DWG BY** RRB

**TR,i PROJECT NO.** 18-046

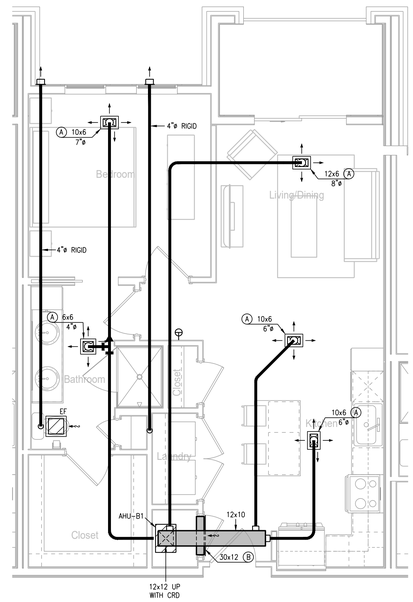
**SHEET NO.**

M114

**ROOF PLAN - AREA E - HVAC**




1 **TYPICAL UNIT PLAN - A1**
1/4"=1'-0" (UNITS A2, A3, AND A4 SIMILAR) HVAC




2 **TYPICAL UNIT PLAN - B1**
1/4"=1'-0" (UNIT B2 SIMILAR) HVAC

NOTES:

1. ALL TYPE "A" SUPPLY REGISTERS HAVE A UL555C CEILING RADIATION DAMPER UNLESS NOTED OTHERWISE. PROVIDE CRD UNLESS NOTED OTHERWISE AT AHU DISCHARGE AND RATED MEMBRANE.
2. PROVIDE MANUFACTURER REQUIRED CLEARANCES FOR AHU'S AND WATER HEATERS.
3. ALL CONDENSING UNITS ARE ROOF MOUNTED. MANUFACTURER SHALL PROVIDE ANY ACCESSORIES REQUIRED FOR PROPER OPERATION.
4. PROVIDE GUY GRAY MODEL DB350/DB3D DRYER VENT BOX AT ALL DRYER LOCATIONS. NOTE TOP FLOOR SHALL ROUTE THRU FLOOR BELOW.
5. GENERALLY CENTER GRILLES/REGISTERS IN WALLS, OVER DOORS, ALIGN WITH WINDOWS, ETC.
6. MAINTAIN 3 FT. FROM EXHAUST/VENTS TO BUILDING OPENINGS. DRYER VENT CAPS SHALL HAVE 4" DEEP BY 4" WIDE OPENING FOR AIR FLOW.
7. ROUTE AHU CONDENSATE INDIRECT TO FLOOR DRAINS IN AHU CLOSETS.
8. EXHAUST FANS AT TOP FLOOR MAY VENT TO ROOF.
9. EXHAUST FANS TO BE FIRE-RATED, HUMIDITY-SENSING TYPE, 80 CFM AT 0.1 ESP. HALF BATH FANS ARE 50 CFM AT 0.1 ESP.
10. USE RA GRILLE AT HVAC CLOSET AS CRD ACCESS, POSITION CORRECTLY. SIZE MAY VARY WITH SAME AREA.
11. TOP FLOOR DUCTS SHALL BE BELOW THE ATTIC INSULATION SHALL BE R-8 INSULATED AND SEALED TO PREVENT CONDENSATION.

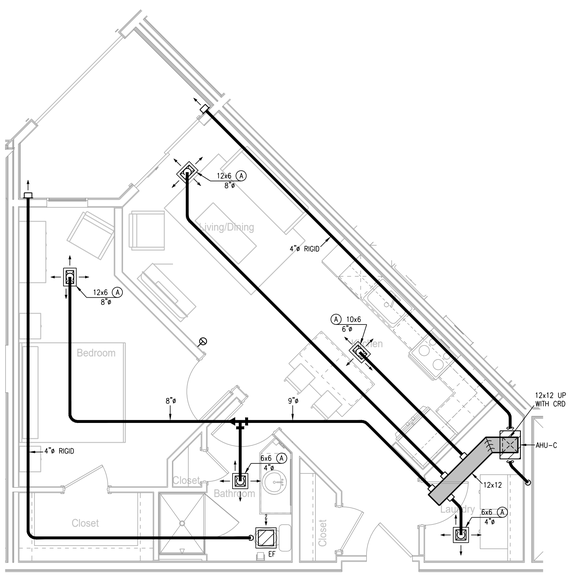
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
Jul 13, 2020

STATE OF MISSOURI
RICHARD R. HUNCHAK
NUMBER PE-2005030456
PROFESSIONAL ENGINEER
07-29-19

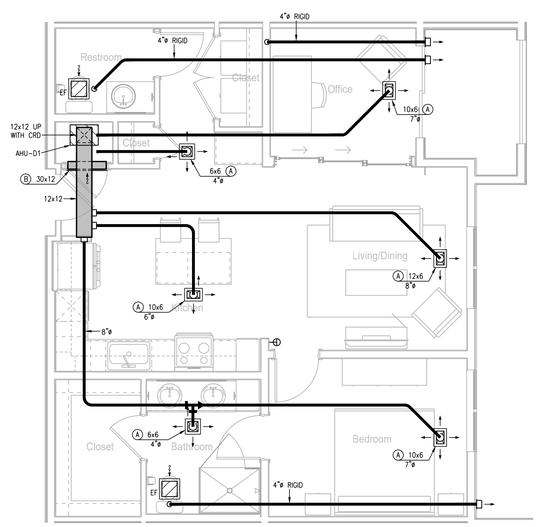
ARCHITECT: TR,i ARCHITECTS
STRUCTURAL ENGINEER: BOB D CAMPBELL & COMPANY
CIVIL ENGINEER: RENAISSANCE INFRASTRUCTURE CONSULTING
GENERAL CONTRACTOR: BRINKMANN CONSTRUCTORS
MECHANICAL ENGINEER: LATIMER SOMMERS & ASSOCIATES
PLUMBING ENGINEER: LATIMER SOMMERS & ASSOCIATES
ELECTRICAL ENGINEER: LATIMER SOMMERS & ASSOCIATES

Pearl COMPANIES

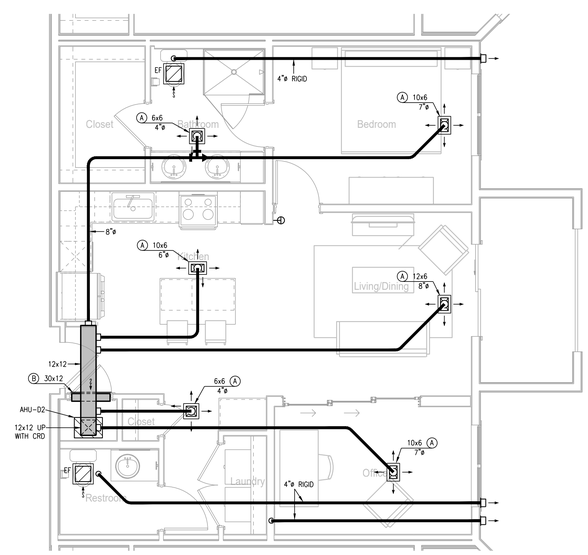
# Summit at West Pryor




3 **TYPICAL UNIT PLAN - C**
1/4"=1'-0" HVAC




4 **TYPICAL UNIT PLAN - D1**
1/4"=1'-0" HVAC




5 **TYPICAL UNIT PLAN - D2**
1/4"=1'-0" HVAC

LS&A Latimer Sommers & Associates, P.A.
CONSULTING ENGINEERS
3630 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lsapa@lsapa.com
LSA PROJECT NO. 1904023

TR,i ARCHITECTS
TR,i Architects
9812 Manchester Road
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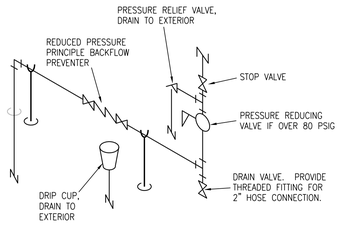
DATE: 07.29.19
REVISIONS ___

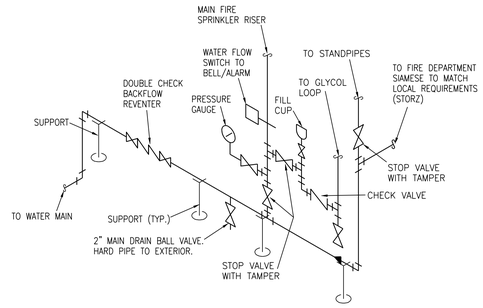
DWG BY RRB
TR,i PROJECT NO. 18-046
SHEET NO.
M201
TYPICAL UNIT PLANS - HVAC

NOTES:

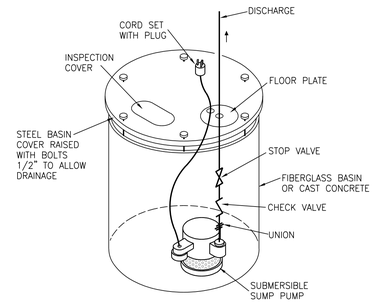
1. DRAWING IS SCHEMATIC ONLY. INSTALLATION SHALL CONFORM TO NFPA 13R AND ALL APPLICABLE LOCAL CODES.




## 1 DOMESTIC WATER RISER
NO SCALE




## 2 FIRE SUPPRESSION ENTRANCE RISER
NO SCALE

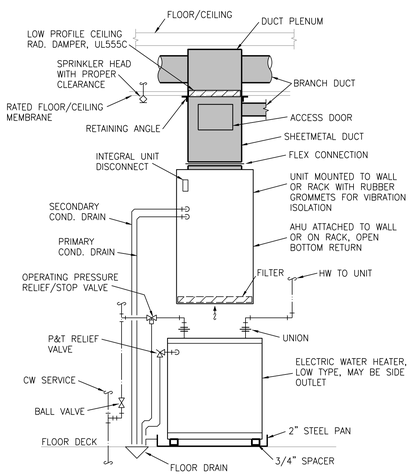



## 3 ELEVATOR SUMP PUMP DETAIL
NO SCALE

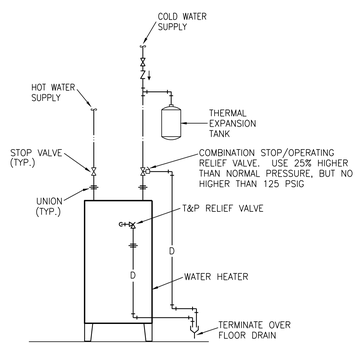
## MECHANICAL SYMBOLS LEGEND

| | | | |
|---|---|---|---|
| P-1 | WATER CLOSET & TYPE (TYP. FOR ALL PLUMBING FIXTURES) | | MANUAL DAMPER |
| | WASTE LINE ABOVE EARTH (W.) | AD | AUTOMATIC DAMPER |
| | WASTE LINE IN EARTH (W.) | FD | FIRE DAMPER |
| CO | CLEAN OUT | FS | FIRE/SMOKE DAMPER |
| FFCO | FLUSH FLOOR CLEAN OUT | 6x6 A 80 | GRILLE, REGISTER OR DIFFUSER, SIZE, TYPE & CFM |
| FGCO | FLUSH GRADE CLEAN OUT | | VOLUME EXTRACTOR AND TURNING VANES |
| 2" 1 FD | FLOOR DRAIN AND TYPE | | RETURN, EXHAUST OR FRESH AIR DUCT SECTION UP & DOWN |
| RD | ROOF DRAIN | | SUPPLY AIR DUCT SECTION UP AND DOWN |
| ORD | OVERFLOW ROOF DRAIN | | FLEXIBLE DUCT CONNECTION |
| 2" 1 RD | ROOF DRAIN AND TYPE | | ROUND OR RECTANGULAR DUCT |
| | VENT LINE (V.) | | FLEXIBLE DUCT |
| | DOMESTIC COLD WATER SUPPLY (DCW) | | THERMOSTAT |
| | DOMESTIC HOT WATER SUPPLY (DHW) | L | REFRIGERANT LIQUID |
| | DOMESTIC HOT WATER RETURN (DHWR) | S | REFRIGERANT SUCTION |
| HB/36" | HOSE BIBB AND MOUNTING HEIGHT | AD | ACCESS DOOR |
| WH | WALL HYDRANT | AFF | ABOVE FINISHED FLOOR |
| F | FIRE LINE/STANDPIPE | EA | EXHAUST AIR |
| D | DRAIN LINE | OA | OUTSIDE AIR |
| G | NATURAL GAS LINE | RA | RETURN AIR |
| | RISE & DROP IN PIPE WITH CUT-OFF VALVE | SA | SUPPLY AIR |
| | REDUCER | VTR | VENT THRU ROOF |
| | CHECK VALVE | | LOCKABLE GUARD |
| | STOP VALVE | CRD | CEILING RADIATION DAMPER |
| | BALANCING VALVE | ORD | OVERFLOW ROOF DRAIN |
| | PLUG VALVE | | |
| | UNION | | |

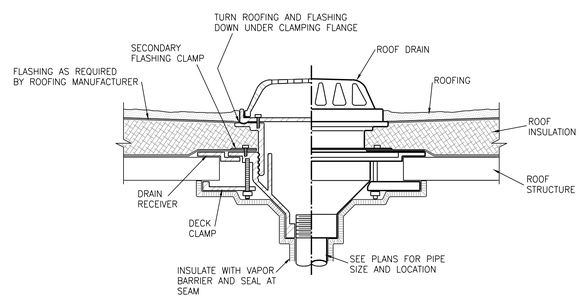
NOTES: ALL SYMBOLS SHOWN ABOVE MAY NOT APPEAR ON PLANS. REFER TO ELECTRICAL SYMBOLS LEGEND FOR ELECTRICAL SYMBOLS THAT MAY BE SHOWN ON MECHANICAL PLANS.



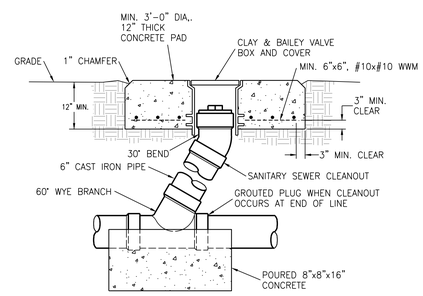

## 4 MECHANICAL CLOSET DETAIL
NO SCALE



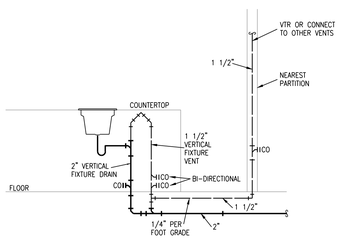

## 5 ELECTRIC WATER HEATER DETAIL
NO SCALE



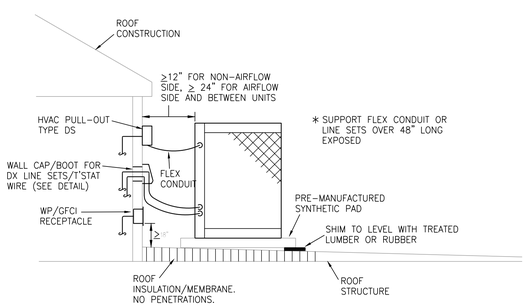

## 6 ROOF DRAIN DETAIL
NO SCALE



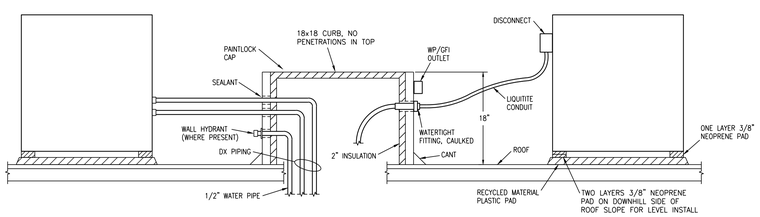

## 7 FLUSH GRADE CLEANOUT DETAIL
NO SCALE




## 8 ISLAND VENT DETAIL
NO SCALE




## 9 ROOF-MOUNTED CONDENSING UNIT DETAIL
NO SCALE




## 10 ROOF CURB DETAIL
NO SCALE

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
Jul 13/2020

STATE OF MISSOURI
RICHARD R. HEADINGS
NUMBER PE-2005020056
PROFESSIONAL ENGINEER
07-29-19

| | |
|---|---|
| TR;i ARCHITECTS | ARCHITECT |
| BOB D CAMPBELL & COMPANY | STRUCTURAL ENGINEER |
| RENAISSANCE INFRASTRUCTURE CONSULTING | CIVIL ENGINEER |
| BRINKMANN CONSTRUCTORS | GENERAL CONTRACTOR |
| LATIMER SOMMERS & ASSOCIATES | MECHANICAL ENGINEER |
| LATIMER SOMMERS & ASSOCIATES | PLUMBING ENGINEER |
| LATIMER SOMMERS & ASSOCIATES | ELECTRICAL ENGINEER |

Pearl COMPANIES

# Summit at West Pryor

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DATE: 07.29.19

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DWG BY RRB

TR;i PROJECT NO. 18-046

SHEET NO.

MP101

MECHANICAL DETAILS


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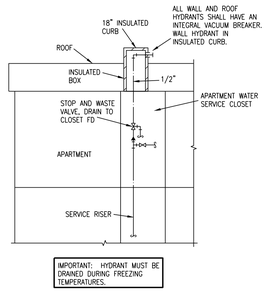
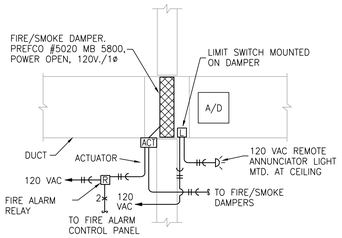
FAX: (785) 233-0647
Email: lsapa@lsapa.com

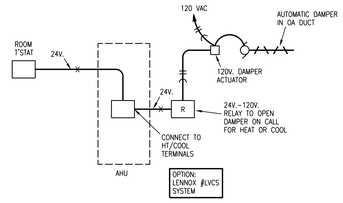

LSA PROJECT NO. 1904023



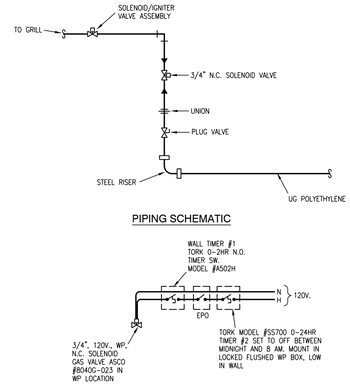

## 1 ROOF HYDRANT DETAIL
NO SCALE



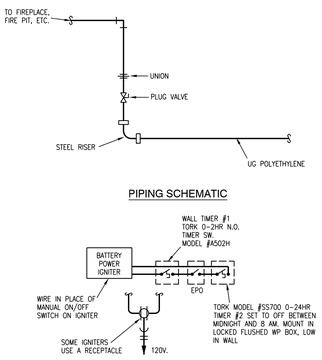

## 2 FIRE/SMOKE DAMPER DETAIL
NO SCALE




## 3 OUTSIDE AIR DAMPER CONTROL SCHEMATIC
NO SCALE (TYP. FOR CORRIDOR UNITS)




## 4 GAS CONTROL DETAIL
NO SCALE (GRILL)




## 5 GAS CONTROL DETAIL
NO SCALE (FIRE PIT)

SPECIFICATIONS
1. 4" Inlet/outlet Sch. 40, Plain End (No-Hub)
2. Max flow rate: 75 GPM
3. Liquid capacity: 125 gallons (16.7 cu. ft.)
4. Max oil capacity: 84.4 gallons
5. Sand capacity: 192 gallons
6. Unit weight w/sta covers: 330 lbs.
7. Highway rated (16,000 lb. load) or pedestrian rated (2,000 lb. load) bolted, gas/water tight composite cover (choose one).
8. Maximum operating temperature 190 °F continuous.
9. Seamless molded polyethylene tank.

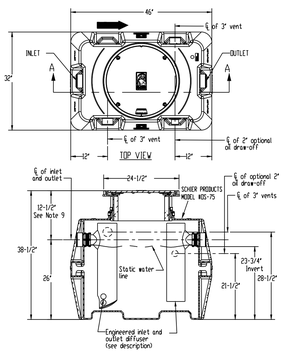
NOTES:
1. Factory installed Built-in Flow control.
2. For gravity drainage applications only. Do not use for pressure applications.
3. Seamless high density polyethylene tank.
4. Unit supplied with built-in adapter for up to 6' of adjustability. Additional riser available for deeper burial depth.
5. Cover placement allows full access to tank for proper maintenance.
6. Narrow footprint allows clearance through doorways and down stairwells.
7. Engineered inlet and outlet diffusers are removable to inspect/clean piping.
8. For on the-floor or buried applications.
9. Trimming of adaptor required between 12-1/2" to 16", not required for 16" to 18-1/2".

DIFFUSION FLOW TECHNOLOGY
The inlet diffuser spills incoming effluent into two paths that utilize the entire liquid volume of the tank for efficient oil separation. The calibrated openings greatly reduce effluent turbulence. The effluent enters the main chamber without disturbing the existing oil or sediment layers.

The bottom of the outlet diffuser allows only effluent which is free of oil to exit the tank.

ENGINEER SPECIFICATION GUIDE
Scherer UA Reserve-oil/sand separator model# DS-75 shall be lifetime guaranteed and made in USA of seamless, rotationally-molded High Density Polyethylene. Separator shall be furnished for above or below grade installation, with field adjustable riser system, built-in Flow control, vent connections and optional oil draw-off for connection to independent collection tank. Separator flow rate shall be 75 GPM. Separator capacity shall be 84.4 gallons of oil and 192 gallons of sediment. Cover shall provide water/gas-tight seal and have minimum 16,000 lbs load capacity.

OPTIONS:
- Highway Rated Cover: 16,000 lb. capacity
- Pedestrian Rated Cover: 2,000 lb. capacity
- Telescoping Field adjustable risers for extending covers to grade
- Male pipe thread connections
- 6" Plain end pipe connections (Inlet/Outlet only)
- High water Anchor Kit
- 2" Plain end oil draw-off connection
- Clean Sweep coalescing media
- Clamping Collar Kit




PROVIDE 4'x4' CONCRETE PAD AT GRADE

## 6 SAND/OIL SEPARATOR DETAIL
NO SCALE

PREFCO
JOHNSON/TECH AIR CONTROL INC.

Ceiling Radiation Damper
3 Hour Rated
For Use in Static Systems
Models 5680 Submittal

*Filename: Prefco Submittal 5680 Rev 27/12/14*

### Application

The Model 5680 provides fire and heat radiation protection of HVAC penetrations in any floor/ceiling and roof/ceiling assemblies with restrained or unrestrained ratings of 3 hours or less. Standard fire dampers (1 1/2 & 3 hr.) do not provide the required protection.

### Standard Construction

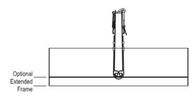
- **Frame**
  21 GA Galvanized Steel
- **Blades - Full Length Hinge**
  21 GA Galvanized Steel
- **Closure Springs**
  Stainless Steel
- **Fusible Link - UL-33**
  UL Listed 212F (standard) 165 F (optional)
  McCabe Link (optional)
- **Insulation (blade)**
  Ceramic Fiber

Model 5680 meets or complies with the following as a ceiling radiation damper.

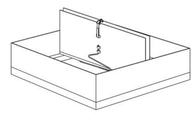
- **NFPA Standards**
- **All major building codes, including BOCA, ICBO/UBC, SBCCI & ICC International Code**

- UL 555C Listing 3 Hour - File #R7365
- CA State Fire Marshall - #3225-1518-103

High Free Area Design
Optional Volume Control Device (5965)




| Standard Sizes (duct) | |
|---|---|
| **Minimum** | *4 5/2" x 4 5/2"* |
| **Maximum** | *24" wide or 30" long - 576 sq. in. total max.* |



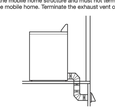
*A dim. is always width of blades*

***NOTES:***
- Dampers are fabricated 3/16" under ordered diameter for clearance
- Approved for use in any UL Fire Resistance Directory Series Designs
- For 2 hour rating, refer to Model 5660

## 7 CEILING RADIATION DAMPER DETAIL
NO SCALE

### TOP LOAD DRYER

**Special provisions for mobile home installations:**
The exhaust vent must be securely fastened to a noncombustible portion of the mobile home structure and must not terminate beneath the mobile home. Terminate the exhaust vent outside.



**Determine vent path:**
- Select route that will provide straightest and most direct path outdoors.
- Plan installation to use fewest number of elbows and turns.
- When using elbows or making turns, allow as much room as possible.
- Bend vent gradually to avoid kinking.
- Use as few 90° turns as possible.

**Determine vent length and elbows needed for best drying performance:**
- Use following "Vent System Chart" to determine type of vent material and hood combinations acceptable to use.
  **NOTE:** Do not use vent runs longer than those specified in "Vent System Chart." Exhaust systems longer than those specified will:
  - Shorten life of dryer.
  - Reduce performance, resulting in longer drying times and increased energy usage.

The "Vent System Chart" provides venting requirements that will help achieve best drying performance.

**Vent System Chart**

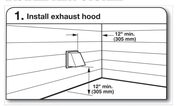
| Number of 90° turns or elbows | Type of vent | Box/louvered hoods | Angled hoods |
|---|---|---|---|
| 0 | Rigid metal | 64 ft. (20 m) | 58 ft. (17.7 m) |
| 1 | Rigid metal | 54 ft. (16.5 m) | 48 ft. (14.6 m) |
| 2 | Rigid metal | 44 ft. (13.4 m) | 38 ft. (11.6 m) |
| 3 | Rigid metal | 35 ft. (10.7 m) | 29 ft. (8.8 m) |
| 4 | Rigid metal | 27 ft. (8.2 m) | 21 ft. (6.4 m) |

~~**Vent System Chart "29" Wide Long Vent WED/WGD4975 and WED/WGD4975 Models Only)**~~

| Number of 90° turns or elbows | Type of vent | Box/louvered or angled hoods |
|---|---|---|
| 0 | Rigid metal | 160 ft. (48.8 m) |
| 1 | Rigid metal | 150 ft. (45.7 m) |
| 2 | Rigid metal | 140 ft. (42.7 m) |
| 3 | Rigid metal | 130 ft. (39.6 m) |
| 4 | Rigid metal | 120 ft. (36.6 m) |
| 5 | Rigid metal | 110 ft. (33.5 m) |

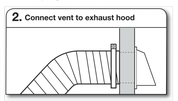
**INSTALL VENT SYSTEM**

**1. Install exhaust hood**




Install exhaust hood and use caulking compound to seal exterior wall opening around exhaust hood.

**2. Connect vent to exhaust hood**



Vent must fit over the exhaust hood. Secure vent to exhaust hood with 4" (102 mm) clamp. Run vent to dryer location using straightest path possible. Avoid 90° turns. Use clamps to seal all joints. Do not use duct tape, screws, or other fastening devices that extend into interior of vent to secure vent, because they can catch lint.

19

### STACKABLE DRYER

**Special provisions for mobile home installations:**
The exhaust vent must be securely fastened to a noncombustible portion of the mobile home structure and must not terminate beneath the mobile home. Terminate the exhaust vent outside.

**Determine vent path:**
- Select route that will provide straightest and most direct path outdoors.
- Plan installation to use fewest number of elbows and turns.
- When using elbows or making turns, allow as much room as possible.
- Bend vent gradually to avoid kinking.
- Use as few 90° turns as possible.

**Determine vent length and elbows needed for best drying performance:**
- Use following "Vent System Chart" to determine type of vent material and hood combinations acceptable to use.
  **NOTE:** Do not use vent runs longer than those specified in "Vent System Chart." Exhaust systems longer than those specified will:
  - Shorten life of dryer.
  - Reduce performance, resulting in longer drying times and increased energy usage.

The "Vent System Chart" provides venting requirements that will help achieve best drying performance.

**Vent System Chart, 27" Models**

| Number of 90° turns or elbows | Type of vent | Box/louvered hoods | Angled hoods |
|---|---|---|---|
| 0 | Rigid metal | 37 ft. (11.3 m) | 35 ft. (10.7 m) |
| 1 | Rigid metal | 32 ft. (9.7 m) | 27 ft. (8.2 m) |
| 2 | Rigid metal | 23 ft. (7.0 m) | 19 ft. (5.8 m) |

~~**Vent System Chart, 24" Models**~~

| Number of 90° turns or elbows | Type of vent | Box/louvered hoods | Angled hoods |
|---|---|---|---|
| 0 | Rigid metal | 43 ft. (13.1 m) | 36 ft. (11.0 m) |
| 1 | Rigid metal | 33 ft. (10.1 m) | 26 ft. (7.9 m) |
| 2 | Rigid metal | 23 ft. (7.0 m) | 16 ft. (4.9 m) |

**NOTE:** Side exhaust installations have a 90° turn inside the dryer. To determine maximum exhaust length, add one 90° turn to the chart.

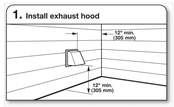
~~**Vent System Chart, 27" Long Vent Model WETLV27FW (U.S. Only)**~~

| Number of 90° turns or elbows | Type of vent | Box/louvered hoods | Angled hoods |
|---|---|---|---|
| 0 | Rigid metal | 127 ft. (38.7 m) | 121 ft. (36.9 m) |
| 1 | Rigid metal | 117 ft. (35.7 m) | 111 ft. (33.8 m) |
| 2 | Rigid metal | 107 ft. (32.6 m) | 101 ft. (30.8 m) |

**NOTE:** Side exhaust installations have a 90° turn inside the dryer. To determine maximum exhaust length, add one 90° turn to the chart.

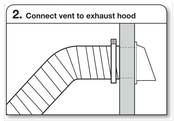
**Install Vent System**

**1. Install exhaust hood**




Install exhaust hood and use caulking compound to seal exterior wall opening around exhaust hood.

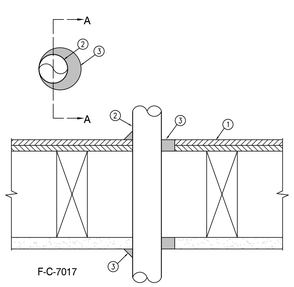
**2. Connect vent to exhaust hood**



Vent must fit inside the exhaust hood. Secure vent to exhaust hood with 4" (102 mm) clamp. Run vent to dryer location using straightest path possible. Avoid 90° turns. Use clamps to seal all joints. Do not use duct tape, screws, or other fastening devices that extend into interior of vent to secure vent, because they can catch lint.

28

## 8 DRYER VENT DETAIL
NO SCALE




## 9 FIRE STOP SYSTEM F-C-7017 DETAIL
NO SCALE

**LEGEND:**

1. FLOOR-CEILING ASSEMBLY - THE 1HR FIRE RATED SOLID OR TRUSSED LUMBER JOIST FLOOR-CEILING ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL L500 SERIES FLOOR-CEILING DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY. THE GENERAL CONSTRUCTION DETAILS OF THE FLOOR-CEILING ASSEMBLY ARE SUMMARIZED BELOW:
   A. FLOORING SYSTEM - LUMBER OR PLYWOOD SUBFLOOR WITH FINISH FLOOR OF LUMBER, PLYWOOD OR FLOOR TOPPING MIXTURE AS SPECIFIED IN THE INDIVIDUAL FLOOR-CEILING DESIGN. MAX. DIAMETER OF OPENING IS 5" (127mm).
   B. WOOD JOISTS - NOM 10" (254mm) DEEP (OR DEEPER) LUMBER, STEEL OR COMBINATION LUMBER AND STEEL JOISTS, TRUSSES OR STRUCTURAL WOOD MEMBERS* WITH BRIDGING AS REQUIRED AND WITH ENDS FIRESTOPPED.
   C. GYPSUM BOARD* - NOM 4" (122cm) WIDE BY 5/8" (16mm) THICK AS SPECIFIED IN THE INDIVIDUAL FLOOR-CEILING DESIGN. GYPSUM BOARD SECURED TO WOOD JOISTS OR FURRING CHANNELS AS SPECIFIED IN THE INDIVIDUAL FLOOR-CEILING DESIGN. MAX OF OPENING IS 6" BY 5 1/2" (152mm BY 140mm).

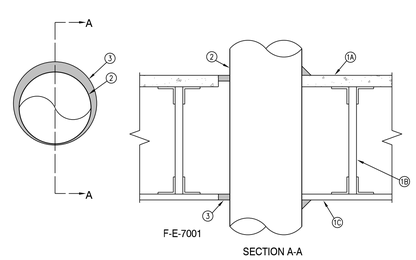
1.3 CHASE WALL (OPTIONAL, NOT SHOWN) - THE DUCT (ITEM 2) MAY BE ROUTED THROUGH A FIRE-RATED SINGLE, DOUBLE OR STAGGERED WOOD STUD/GYPSUM BOARD CHASE WALL HAVING A FIRE RATING CONSISTENT WITH THAT OF THE FLOOR-CEILING ASSEMBLY. THE CHASE WALL SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STUDS - NOM 2" BY 6" (51mm BY 152mm) OR DOUBLE NOM 2" BY 4" (51mm BY 102mm) LUMBER STUDS.
   B. SOLE PLATE - NOM 2" BY 6" (51mm BY 152mm) OR PARALLEL 2" BY 4" (51mm BY 102mm) LUMBER PLATES, TIGHTLY BUTTED.
   C. TOP PLATE - THE DOUBLE TOP PLATE SHALL CONSIST OF TWO NOM 2" BY 6" (51mm BY 152mm) OR TWO SETS OF PARALLEL 2" BY 4" (51mm BY 102mm) LUMBER PLATES, TIGHTLY BUTTED. MAX OF OPENING IS 6" BY 5 1/2" (152mm BY 140mm).
   D. GYPSUM BOARD* - THICKNESS TYPE, NUMBER OF LAYERS AND FASTENERS SHALL BE AS SPECIFIED IN INDIVIDUAL WALL AND PARTITION DESIGN.

2. STEEL DUCT - NOM 4" (102mm) DIAMETER (OR SMALLER) NO. 30 GAUGE (OR HEAVIER) GALVANIZED STEEL DUCT TO BE INSTALLED ECCENTRICALLY OR CONCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN THE DUCT AND THE PERIPHERY OF OPENING SHALL BE MIN. 0" (0mm) (POINT CONTACT) TO MAX 2" (51mm) DUCT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF THE FLOOR-CEILING ASSEMBLY.

3. FILL, VOID OR CAVITY MATERIALS* - CAULK OR SEALANT - MIN 3/4" (19mm) THICKNESS OF CAULK APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR OR SOLE PLATE. MIN. 5/8" (16mm) THICKNESS OF CAULK APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTTOM SURFACE OF CEILING OR TOP PLATE. MIN 1/2" (13mm) DIAMETER BEAD OF CAULK APPLIED AT THE DUCT/FLOOR OR SOLE PLATE INTERFACE AT POINT CONTACT LOCATION ON THE TOP SIDE OF ASSEMBLY AND AT THE DUCT/CEILING OR TOP PLATE INTERFACE AT POINT CONTACT LOCATION ON BOTTOM SIDE OF ASSEMBLY.

   3M COMPANY - FIREDAM 150+, CP 25WB+CAULK OR FB-3000 WT SEALANT.

* BEARING THE UL CLASSIFICATION MARK.




## 10 FIRE STOP SYSTEM F-E-7001 DETAIL
NO SCALE

**LEGEND:**

1. FLOOR-CEILING ASSEMBLY - THE 1HR FIRE RATED CONCRETE AND STEEL JOIST FLOOR-CEILING ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL G500 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY, AS SUMMARIZED BELOW:
   A. FLOORING - NORMAL OR LIGHTWEIGHT CONCRETE AS SPECIFIED IN THE INDIVIDUAL G500 SERIES DESIGN. MAX. DIAMETER OF OPENING IS 11" (279mm).
   B. JOISTS - STEEL JOISTS OR STRUCTURAL STEEL MEMBERS* AS SPECIFIED IN THE INDIVIDUAL G500 SERIES DESIGN.
   C. GYPSUM BOARD* - MIN. 5/8" (16mm) THICK, SCREW-ATTACHED TO FURRING CHANNELS AS SPECIFIED IN THE INDIVIDUAL G500 SERIES DESIGN. MAX. DIAMETER OF OPENING IS 11" (279mm).

2. STEEL VENT DUCT - NOM 4" (102mm) DIAMETER (OR SMALLER) NO. 30 GAUGE (OR HEAVIER) GALVANIZED STEEL VENT DUCT OR NOM 10" (254mm) DIAMETER (OR SMALLER) NO. 28 GAUGE (OR HEAVIER) GALVANIZED STEEL VENT DUCT. DIAMETER OF OPENINGS TO BE MAX. 1" (25mm) LARGER THAN OUTSIDE DIAMETER OF DUCT. DUCT TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY IN OPENING. THE ANNULAR SPACE BETWEEN THE DUCT AND THE PERIPHERY OF OPENING SHALL BE MIN. 0" (POINT CONTACT) TO MAX. 1" (0 TO MAX 25mm). DUCT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR-CEILING ASSEMBLY.

3. FILL, VOID OR CAVITY MATERIALS* - CAULK OR SEALANT - MIN. 3/4" (19mm) THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR. MIN. 5/8" (16mm) THICKNESS OF APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTTOM SURFACE OF CEILING. AN ADDITIONAL MIN. 1/4" (6mm) BEAD OF FILL MATERIAL APPLIED AT THE DUCT/FLOOR INTERFACE AT POINT CONTACT LOCATION ON THE TOP SURFACE OF FLOOR AND AT THE DUCT/CEILING INTERFACE AT POINT CONTACT LOCATION ON THE LOWER SURFACE OF CEILING.

   3M COMPANY - CP 25WB+JC 15WB+CAULK OR FB-3000 WT SEALANT.

* BEARING THE UL CLASSIFICATION MARKING.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CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
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Email: lsapa@lsapa.com
LSA PROJECT NO. 1904023


RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
07/13/2020

STATE OF MISSOURI
RICHARD R. HAUCK
NUMBER PE-2003030456
PROFESSIONAL ENGINEER
07-29-19

| | |
|---|---|
| TR.i ARCHITECTS | ARCHITECT |
| BOB D CAMPBELL & COMPANY | STRUCTURAL ENGINEER |
| RENAISSANCE INFRASTRUCTURE CONSULTING | CIVIL ENGINEER |
| BRINKMANN CONSTRUCTORS | GENERAL CONTRACTOR |
| LATIMER SOMMERS & ASSOCIATES | MECHANICAL ENGINEER |
| LATIMER SOMMERS & ASSOCIATES | PLUMBING ENGINEER |
| LATIMER SOMMERS & ASSOCIATES | ELECTRICAL ENGINEER |

Pearl COMPANIES

# Summit at West Pryor

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**DATE:** 07.29.19

**REVISIONS** ___

**DWG BY** RRB

**TR.i PROJECT NO.** 18-046

**SHEET NO.**

MP102

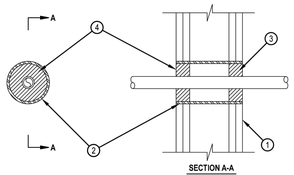
**MECHANICAL DETAILS**

## System No. W-L-2186

WL 2186

Classified by Underwriters Laboratories, Inc. to UL 1479

**F Ratings — 1 and 2 Hr (See Items 1 and 4)**
**T Ratings — 1/2 and 1 Hr (See Items 3 and 4)**
**L Rating at Ambient - Less Than 1 CFM/sq ft**
**L Rating at 400 F - 2 CFM/sq ft**




SECTION A-A

1. Wall Assembly — The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing shall consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC.
   B. Gypsum Board* — Four layers of nom 5/8 in. (16 mm) thick gypsum board as required in the individual Wall and Partition Design. For 2 hr assembly, two layers of min 5/8 in. (16 mm) thick gypsum board as required in the individual Wall and Partition Design. Max diam of opening is 3 in. (76 mm).
   The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
2. Steel Sleeve — (Optional) - Max 3 in. (76 mm) diam Schedule 40 (or heavier) steel pipe sleeve friction fit into circular opening core drilled through wall. Length of steel sleeve to be equal to thickness of wall.
3. Through-Penetrant — One nom 1 in. (25 mm) diam (or smaller) SDR 9 cross-linked polyethylene (PEX) tubing for use in closed (process or supply) piping systems. The tubing installed concentrically or eccentrically within the opening. The annular space between the tube and the steel sleeve or wall opening shall be min 1/2 in. (13 mm) to max 1-3/8 in. (35 mm). Tube to be rigidly supported on both sides of wall assembly. When steel sleeve (Item 2) is not provided, tube may be installed at an angle not greater than 45 degrees from perpendicular.
   The hourly T Rating is 1/2 hr and 1 Hr for 1 Hr and 2 Hr fire rated wall assemblies, respectively.
4. Fill, Void or Cavity Material*-Sealant — Min 5/8 in. (16 mm) and 1-1/4 in. (32 mm) thickness of fill material applied within annulus, flush with both surfaces of wall assembly for 1 and 2 hr rated walls, respectively. When a steel sleeve (Item 2) is provided for assemblies with L Ratings, sealant shall be applied around periphery of opening to cover the exposed ends of the sleeve and to lap min 1/4 in. (6 mm) onto gypsum board on each side of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant
   * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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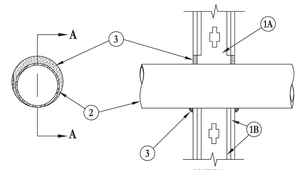
January 22, 2015

## System No. W-L-2264

November 20, 2009
F Ratings – 1 and 2 Hr (See Item 1)
T Ratings – 0, 1and 2 Hr (See Item 2)




SECTION A-A

1. **Wall Assembly** – The 1 and 2 hr fire rated gypsum board/stud wall assemblies shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. **Studs** – Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.
   B. **Gypsum Board*** – Thickness, type, number of layers and fasteners as required in the individual Wall and Partition Design. Diam of opening shall be 1 in. (25 mm) larger than nom pipe diam.
   **The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.**
2. **Through Penetrants** – One nonmetallic pipe or conduit to be installed either concentrically or eccentrically within the firestop system. The annular space between the pipe or conduit and periphery of opening shall be min of 0 in. (0 mm, point contact) to max 5/8 in. (16 mm). Pipe or conduit to be rigidly supported on both sides of wall assembly. The following types and sizes of nonmetallic pipes or conduits may be used:
   A. **Polyvinyl Chloride (PVC) Pipe** – Nom 2 in. (51 mm) diam (or smaller). Schedule 40 solid core or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
   B. **Chlorinated Polyvinyl Chloride (CPVC) Pipe** – Nom 2 in. (51 mm) diam (or smaller) SDR13.5 CPVC pipe for use in closed (process or supply) piping systems.
   C. **Rigid Nonmetallic Conduit** – Nom 2 in. (51 mm) diam (or smaller). Schedule 40 PVC conduit installed in accordance with the National Electrical Code (NFPA No. 70).
   D. **Acrylonitrile Butadiene Styrene (ABS) Pipe** – Nom 2 in. (51 mm) diam (or smaller). Schedule 40 solid core or cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
   **The hourly T Rating of the firestop system is 0 Hr when pipes are used in vented (drain, waste or vent) piping systems. The hourly T Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed when pipes are used in closed (process or supply) piping systems.**
3. **Fill, Void or Cavity Materials*** – **Caulk or Sealant** – Min thickness of 5/8 in. (16 mm) of caulked applied within annulus between pipe or conduit and periphery of the opening, flush with both surfaces of wall assembly. At the point contact location between pipe or conduit and gypsum board, a min 1/2 in. (13 mm) diam bead of caulk or putty shall be applied at the pipe or conduit/gypsum board interface on both surfaces of wall assembly.
   **3M COMPANY** - FireDam 150+, CP 25WB+; IC 15WB+ caulk or FB-3000 WT sealant.
   (Note: CP 25WB+ and FireDam 150+ not suitable for use with CPVC pipes.)
*Bearing the UL Classification Mark

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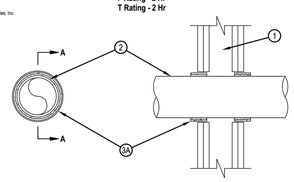
Through Penetrations | Non-Metallic Pipes | 2000 Series | Gypsum | WL

## System No. W-L-2344

WL 2344

Classified by Underwriters Laboratories, Inc. to UL 1479

**F Rating - 2 Hr**
**T Rating - 2 Hr**




SECTION A-A

1. Wall Assembly – The 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs – Wall framing shall consist of either wood or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.
   B. Gypsum Board* – Min 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum board type, thickness, number of layers and orientation shall be as specified in the individual U300 or U400 Wall and Partition Design. Max diam of opening is 5-1/2 in.
2. Through Penetrants – One nonmetallic pipe to be centered within the firestop system. A nom annular space of 3/8 to1/2 in. is required within the firestop system. Pipe to be rigidly supported on both sides of wall assembly. The following types and sizes of nonmetallic pipes may be used:
   A. Acrylonitrile Butadiene Styrene (ABS) Pipe – Nom 4 in. diam (or smaller) Schedule 40 cellular or solid core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
   B. Polyvinyl Chloride (PVC) Pipe – Nom 4 in. diam (or smaller) Schedule 40 cellular or solid core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
   C. Chlorinated Polyvinyl Chloride (CPVC) Pipe – Nom 4 in. diam (or smaller) SDR 13.5 CPVC pipe for use in closed (process or supply) piping systems.
3. Firestop System – The firestop system shall consist of the following:
   A. Fill, Void or Cavity Material* – Wrap Strip – Two layers of nom 3/16 in. thick by 1-3/4 in. wide intumescent wrap strip individually wrapped around the outer circumference of the pipe and slid into the annular space such that wrap strip extends 3/4 in. beyond both surfaces of wall. Butted ends in successive layers shall be offset. Wrap strip secured with tape, wire or tie wire.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC – CP646-E W45/1-3/4" Wrap Strip
   *Bearing the UL Classification Mark

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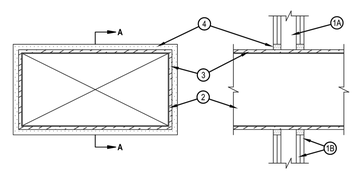
April 22, 2005

## System No. W-L-7059

WL 7059

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

| ANSI/UL1479 (ASTM E814) | CAN/ULC S115 |
|---|---|
| F Ratings - 1 and 2 Hr (See Item 1) | F Ratings - 1 and 2 Hr (See Item 1) |
| T Rating - 1/2 and 3/4 Hr (See Item 1) | FT Rating - 1/2 and 3/4 Hr(See Item 1) |
| | FH Ratings - 1 and 2 Hr (See Item 1) |
| | FTH Rating - 1/2 and 3/4 Hr (See Item 1) |




SECTION A-A

1. Wall Assembly — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U400, V400 or W400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing shall consist of channel studs. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. The opening in the wall to accommodate the steel duct (Item 2) shall be framed on all sides using lengths of studs installed between the vertical studs and attached to the studs at each end. The framed opening in the wall shall be a nom 6 in. (152 mm) wide and 12 in. (305 mm) higher than the width and height of the steel duct.
   B. Wallboard, Gypsum* — 5/8 in. (16 mm) thick, 4 ft (1.22 mm) wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300, U400, V400 or W400 Series Design in the UL Fire Resistance Directory. Max area of opening is 386 sq. in. (0.25 m2)with max dimensions of 36-3/4 in. (879 mm) for steel studs. The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed. The hourly T, FT and FTH Ratings are 1/2 hr and 3/4 hr for 1 and 2 hr rated assemblies, respectively

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January 27, 2015



## System No. W-L-7059

WL 7059

2. Steel Duct — Nom 24 in. by 12 in. (610 by 305 mm) (or smaller) No. 24 gauge (or heavier) steel duct to be installed eccentrically within the framed opening. The annular space shall be min 1 in. (25 mm) to max 1-3/4 in. (45 mm) Steel duct to be rigidly supported on both sides of wall assembly.
3. Batts and Blankets* — Max 1-1/2 in. (38 mm) thick glass fiber batt or blanket (min 3/4 pcf or 12 kg/m3) jacketed on the outside with a foil-scrim-kraft facing. Longitudinal and transverse joints sealed with aluminum foil tape. During the installation of the fill material, the batt or blanket shall be compressed 50% such that the annular space within the firestop system shall be min 1/4 in. (6 mm) to max 1 in. (25 mm). See Batts and Blankets - (BKNV) category in the Building Materials Directory for names of manufacturers. Any batt or blanket meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index 50 or less may be used.
4. Fill, Void or Cavity Material* - Sealant — Min 5/8 in. or 1-1/4 in. (16 or 32 mm) thickness of fill material applied within annulus, flush with both surfaces of wall for 1 or 2 hr walls, respectively. If voids develop after the fill materials cures, the voids shall be sealed with additional fill material.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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January 27, 2015

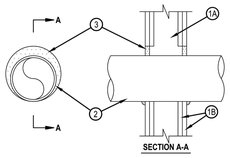


## System No. W-L-1054

WL 1054

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

| ANSI/UL1479 (ASTM E814) | CAN/ULC S115 |
|---|---|
| F Ratings —1 and 2 Hr (See Items 1 and 3) | F Ratings — 1 and 2 Hr (See Items 1 and 3) |
| T Rating — 0 Hr | FT Rating — 0 Hr |
| L Rating at Ambient — Less Than 1 CFM/sq ft | FH Ratings —1 and 2 Hr (See Items 1 and 3) |
| L Rating at 400 F — Less Than 1 CFM/sq ft | FTH Rating — 0 Hr |
| | FTH Rating — 0 Hr |
| | L Rating at Ambient — Less Than 1 CFM/sq ft L Rating at 400 F — Less Than 1 CFM/sq ft |




SECTION A-A

1. Wall Assembly — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. (102 to 152 mm) wider and 4 to 6 in. (102 to 152 mm) higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. (51 to 76 mm) clearance is present between the penetrating item and the framing on all four sides.
   B. Gypsum Board* — 5/8 in. (16 mm) thick, 4 ft (122 cm) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 32-1/4 in. (819 mm) for steel stud walls. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls.
   The F and FH Ratings of the firestop system are equal to the fire rating of the wall assembly.

HILTI — Hilti Firestop Systems

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January 23, 2015



NOTES:

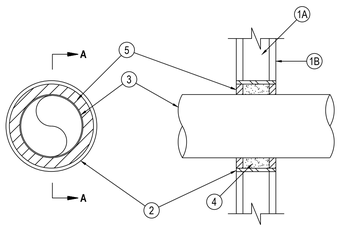
1. Floor-Ceiling Assembly The fire-rated solid or trussed lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in individual L500 Series Floor-Ceiling Designs in the UL Fire Resistance Directory. The general construction details of the floor-ceiling assembly are summarized below:
   A. Flooring System Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Mixture* as specified in the individual Floor-Ceiling Design. Max diam of floor opening is 3 in.
   B. Wood Joists Nom 2 by 10 in. lumber joists spaced 16 in. OC with nom 1 by 3 in. lumber bridging and with ends firestopped. As an alternate to lumber joists, nom 10 in. deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members* with bridging as required with ends firestopped.
   C. Furring Channels (Not shown) – Resilient galv steel furring installed perpendicular to wood joists (Item 1B) between wallboard (Item 1D) and wood joists as required in the individual Floor-Ceiling Design.
   D. Gypsum Board* Nom 4 ft wide by 5/8 in. thick as specified in the individual Floor-Ceiling Design.
2. Chase Wall The through penetrant (Item 3) shall be routed through a 1 hr fire-rated single, double or staggered wood stud/gypsum wallboard chase wall constructed of the materials and in the manner specified in the individual U300 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs Nom 2 by 4 in. lumber studs.
   B. Sole Plate Nom 2 by 4 in. lumber plates.
   C. Top Plate The double top plate shall consist of two nom 2 by 4 in. lumber plates. Max diam of opening is 3 in.
   D. Gypsum Board* Thickness, type, number of layers and fasteners shall be as specified in individual Wall and Partition Design.
3. Through – Penetrants One nonmetallic pipe to be installed either eccentrically or concentrically within the firestop system. The annular space between the through penetrant and the periphery of the opening shall be a min 0 in. (point contact) to a max of 5/8 in. Pipe to be rigidly supported on both sides of the floor-ceiling assembly. The following types and sizes of nonmetallic pipes may be used.
   A. Polyvinyl Chloride (PVC) Pipe Nom 2 in. diam (or smaller) Schedule 40 cellular or solid core PVC pipe for use in closed (process or supply) or vented (drain, waste, or vent) piping systems.
   B. Acrylonitrile Butadine Styrene (ABS) Pipe Nom 2 in diam (or smaller) Schedule 40 cellular or solid core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
   C. Chlorinated Polyvinyl Chloride (CPVC) Pipe Nom 2 in. diam (or smaller) SDR17 CPVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
4. Fill, Void or Cavity Material* -- Sealant Min 3/4 in. thickness of fill material applied within the annulus, flush with top surface of floor and flush with bottom surface of lower top plate.
   HILTI CONSTRUCTION CHEMICALS, DIV OF
   HILTI INC – FS – ONE Sealant
   *Bearing the UL Classification Marking

NOTES:

1. Floor-Ceiling Assembly The 1 hr fire-rated solid or trussed lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L500 Series Floor-Ceiling Designs in the UL Fire Resistance Directory. The general construction features of the floor-ceiling assembly are summarized below:
   A. Flooring System Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Mixture* as specified in the individual Floor-Ceiling Design. Max diam of opening shall be 5 in.
   B. Wood Joist* Nom 10 in. deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members* with bridging as required and with ends firestopped.
   C. Gypsum Board* Nom 5/8 in. thick, 4 ft wide as specified in the individual Floor-Ceiling Design.
2. Closet Flange Acrylonitrile butadiene styrene (ABS) or polyvinyl chloride (PVC) closet stub sized to accommodate drain pipe. Closet flange installed over drain piping within floor opening with flange secured to plywood floor with steel screws. Diam of circular opening through flooring (Item 1A) to be max ½ in. larger than outside diam of closet flange.
3. Drain Piping Nom 4 in. diam (on smaller) Schedule 40 acrylonitrile butadiene styrene (ABS) or polyvinyl chloride (PVC) drain pipe and 90 degree elbow for use in vented (drain, waste or vent) piping systems. Pipe installed concentrically within firestop system.
4. Fill, Void or Cavity Materials*--Sealant Min 3/4 in. thickness of fill material applied within the annulus, flush with the bottom surface of floor.
   HILTI CONSTRUCTION CHEMICALS, DIV OF
   HILTI INC -- FS-ONE Sealant
5. Water Closet (Not Shown)--Floor mounted vitreous china water closet.
   *Bearing the UL Classification Mark

NOTES AND LEGENDS:

1. 1. Wall Assembly – The fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs – Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.
   B. Gypsum Board* – One layer of nom 5/8 in. thick gypsum wallboard, as specified in the individual Wall and Partition Design. Max diam of opening is 8-5/8 in.
   Metallic Sleeve – Nom 8 in. diam (or smaller) Schedule 40 (or heavier) steel sleeve cast into wall assembly with joint compound and installed flush with wall surfaces.
2. Air Duct – Nom 6 in. diam (or smaller) prefabricated No. 28 MSG galv sheet metal duct. A min 1/2 to max 1-1/2 in. annular space is required within the firestop system. Duct to be rigidly supported on both sides of wall assembly.
3. Forming Material* – Foamed plastic forming material foamed into opening as a permanent form. Forming material to be recessed from both surfaces of wall as required to accommodate the required thickness of fill material.
   HILTI CONSTRUCTION CHEMICALS, DIV OF
   HILTI INC – CF810, CF812 or CF511 Foam Sealant
4. Fill, Void or Cavity Material* – Min 5/8 in. thickness of fill material applied within annulus, flush with both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF
   HILTI INC – FS-ONE Sealant
5. *Bearing the UL Classification Mark

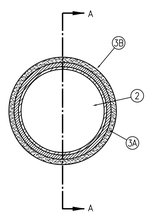



SECTION A-A

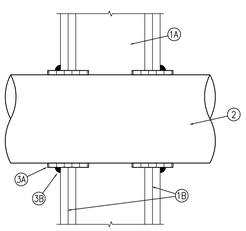
1 **FIRE STOP DETAIL**
NO SCALE — SYSTEM W-L-7017

U.L. SYSTEM NO. WL2551
F RATING = 1 AND 2 HR (SEE ITEM 1)
T RATING = 1 AND 2 HR (SEE ITEM 1)

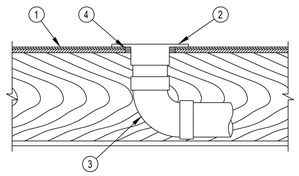
FRONT VIEW



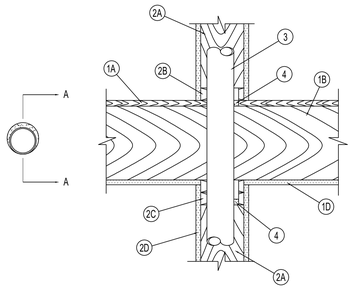

SECTION A–A




2 **FIRE STOP SYSTEM W-L-2551 DETAIL**
NO SCALE




3 **FIRE RATED PENETRATION DETAIL**
NO SCALE — SYSTEM FC-2203




4 **FIRE RATED PENETRATION DETAIL**
NO SCALE — SYSTEM FC-2142

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
Jul 13/2020

STATE OF MISSOURI — RICHARD R. HAMILTON — NUMBER PE-2002020046 — PROFESSIONAL ENGINEER
07-29-19

ARCHITECT — TR;i ARCHITECTS
STRUCTURAL ENGINEER — BOB D CAMPBELL & COMPANY
CIVIL ENGINEER — RENAISSANCE INFRASTRUCTURE CONSULTING
GENERAL CONTRACTOR — BRINKMANN CONSTRUCTORS
MECHANICAL ENGINEER — LATIMER SOMMERS & ASSOCIATES
PLUMBING ENGINEER — LATIMER SOMMERS & ASSOCIATES
ELECTRICAL ENGINEER — LATIMER SOMMERS & ASSOCIATES

Pearl COMPANIES

# Summit at West Pryor

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DATE: 07.29.19

REVISIONS ___

DWG BY RRB
TR;i PROJECT NO. 18-046
SHEET NO.
MP103
MECHANICAL DETAILS

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CONSULTING ENGINEERS
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FAX: (785) 233-0647
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LSA PROJECT NO. 1904023

# HVAC SYSTEM SCHEDULE

| MARK | MFGR | NOM TON | MODEL | CFM | OA CFM | AHU/RTU E.S.P. | HP | SMBH | TMBH | HEAT CAP | ELEC | FLA | OCP | OUTDOOR UNIT MFGR | MODEL | ELEC | FLA | OCP | SEER | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **UNITS** | | | | | | | | | | | | | | | | | | | | |
| A, B, C | GOODMAN | 1 1/2 | AWUF2408C14 | 600 | | 0.5 | 0.2 | 12.4 | 17.4 | 5.6 KW | 208/1 | 31 | 40 | GOODMA N | GSX14018 | 208/1 | 14 | 20 | 14.0 | |
| D1, D2, F | GOODMAN | 2 | AWUF2408C14 | 750 | | 0.5 | 0.2 | 17.2 | 22.8 | 5.6 KW | 208/1 | 31 | 40 | GOODMAN | GSX14024 | 208/1 | 14 | 25 | 14.0 | |
| G, H | GOODMAN | 2 1/2 | AWUF3010C14 | 950 | | 0.5 | 0.33 | 20.6 | 27.4 | 7.5 KW | 208/1 | 41 | 60 | GOODMAN | GSX14030 | 208/1 | 15 | 30 | 14.0 | |
| **COMMON AREAS** | | | | | | | | | | | | | | | | | | | | |
| 1/1, 1/4, 1/7 | GOODMAN | 2 1/2 | ARUF-31B14 | 850-950 | 100 | 0.5 | 0.33 | 20.0 | 27.0 | 7.5 KW | 208/1 | 40 | 50 | GOODMAN | GSX14-030 | 208/1 | 13.9 | 25 | 14.0 | |
| 1/3 | GOODMAN | 5 | ARUF61D14 | 1650-1950 | 265 | 0.5 | 0.75 | 41 | 57.5 | 11.4 KW | 208/1 | 57 | 70 | GOODMAN | GSX14-0601 | 208/1 | 26.3 | 50 | 14.0 | |
| 2/1, 3/1, 4/1, 2/2, 3/2,4/2, 2/3, 3/3, 4/3, 2/4, 3/4, 4/4, 2/5, 3/5 | GOODMAN | 2 | ARUF25B14 | 600-800 | 100 | 0.5 | 0.33 | 17.0 | 23.2 | 7.5 KW | 208/1 | 40 | 50 | GOODMAN | GSX14025 | 208/1 | 14 | 25 | 14.0 | |
| 1/5 | Removed | | | | | | | | | | | | | | | | | | | |
| 1/2, 1/6 | GOODMAN | 3 | ARUF-37C14 | 1350 | 160 | 0.4 | FR | 25.8 | 33 | 7.5 KW | 208/1 | 40 | 50 | GOODMAN | GSX14-037 | 208/1 | 15 | 30 | 14.0 | |
| RTU - 1 THRU 4, 6 | TRANE | 5 | TSC060E1E | 1675-1880 | SEE TABLE | 0.7 | 1 | 47 | 60 | 17.3 KW | 208/3 | 55 | 70 | | | | | | | |
| RTU - 5 | TRANE | 3 | TSC036E1E | 1000 | SEE TABLE | 0.5 | 1 | 26 | 36 | 9 KW | 208/3 | 31 | 40 | | | | | | | |
| DSS-G1, G2, G3 | FUJITSU | 1 | AUU9RLF | 300 | 0 | 0 | | | 9 | 12 | 208/1/5 | W/HP | | FUJITSU | AOU9RLFC | 208/230/1 | 5 | 20 | 20.0 | WALL STAT, LOW AMB |
| DSS | FUJITSU | 1 1/2 | ASU18RLF | 540 | 0 | 0 | | | 18 | 23 MBH | 208-240/1 | W/HP | | FUJITSU | ASU18RLF | 208-240/1 | 13 | 25 | 19 | WALL STAT, LOW AMB |
| DSS-4/1, 4/2, 4/3 | FUJITSU | 2 | ASU24RLF | 700 | 0 | 0 | | | 22 | 25 MBH | 208/1 | W/HP | | FUJITSU | AOU24RXLFW1 | 208-240/1 | 15.5 | 25 | 19 | WALL STAT, LOW AMB |

NOTE: PROVIDE LONG LINE ACCESSORY KIT ON ALL SPLIT SYSTEMS THAT EXCEED MFGR'S LIMITS

# ELECTRIC UNIT HEATER SCHEDULE

| MARK | MFGR | MODEL | KW | MBH | CFM | ELECTRICAL VOLTS/ PH | FLA | OCP | WIRING | CONFIGURATION - NOTES |
|---|---|---|---|---|---|---|---|---|---|---|
| EUH - A | BERKO | FRA-4024 | 3.0 | 10.2 | 100 | 208/1 | 12 | 20 | (3) #12 | WALL, 1, 4, 5 |
| EUH - B | BERKO | HUHAA-1520 | 15.0 | 51.0 | 910 | 208/3 | 42 | 60 | (2)#8 (1)#10 | SUSPENDED, 4, 7 |
| EUH-B2 | BERKO | HUH-520 | 5.0 | 17.0 | 270 | 208/1 | 25 | 35 | (2) #8, (1) #10 | SUSPENDED, 4, 6 |
| EUH-B3 | BERKO | HUHTA-524TA | 1.9 | 6.4 | 270 | 208/1 | 8 | 20 | (3) #12 | SUSPENDED, 4, 6 |
| EUH - C | BERKO | SRC-1512 | 1.5 | 5.1 | 65 | 120/1 | 12 | 20 | (3) #12 | CEILING, 1, 4, 6 |
| EUH-D | BERKO | EFF4004 | 3.0 | 10.2 | 150 | 208/1 | 12 | 20 | (3) #12 | CEILING, 3, 4, 5 |

NOTES:
1-SURFACE MOUNTED
2-SEMI-RECESSED
3-FULLY RECESSED
4-DISCONNECT
5-INTEGRAL TSTAT
6-WALL TSTAT
7 - MOUNT TSTAT ON BACK OF UNIT

# AIR TERMINAL DEVICE SCHEDULE

| MARK | MANUFACTURER | MODEL | FINISH | DAMPER | FRAME TYPE | NOTES |
|---|---|---|---|---|---|---|
| A | AIR MATE | A190 | WHITE | YES | GYP BD | |
| B | AIR MATE | 170 | WHITE | NO | GYP BD | |
| B1 | AIR MATE | 280 FF | WHITE | NO | GYP BD | |
| C | AIR MATE | 240 VO | WHITE | YES | GYP BD | |
| D | PRICE | 620DAL/N/L/A/B12 | WHITE | YES | GYP. BD. | W/CRD |
| E | PRICE | 635/N/L/A/B12 | WHITE | NO | GYP. BD. | |
| E1 | PRICE | 635DAL/L/A/B12 | WHITE | YES | GYP. BD. | |
| F | PRICE | AMD/6/4A/B12 | WHITE | NO | GYP. BD. | W/CRD |
| G | PRICE | TBD/7/B12 1-slot 1-way | WHITE | NO | GYP BD | W/PLASTER FRAME |
| | | | | | | |

# FAN SCHEDULE

| MARK | MFGR | MODEL | CFM | ESP | FAN HP | ELECTRICAL VOLT S/ PH | FL A | OCP | WIRING | CONFIGURATIO N - NOTES |
|---|---|---|---|---|---|---|---|---|---|---|
| EF - 1/1, 1/4 | GREENHECK | SQ-100-B | 600 | 0.25 | 0.16 | 120/1 | 3 | 15 | (3) #12 | in-line, 2, 3 |
| EF-1/2, 1/3, 1/5,1/6 | AIR KING | FRAK80H | 80 | 0.1 | Fr. | 120/1 | 1 | 15 | (3) #12 | ceiling, 1 |
| EF-G1, G2 | GREENHECK | 44 USF-400-AF | 38000 | 0.5 | 15 | 208/3 | 48 | 90 | (3) #2 AL | utility, 4 |
| APT EF | AIR KING | FRAK80H | 80 | 0.1 | Fr. | 120/1 | 1 | 15 | (3) #12 | ceiling, 1 |
| APT EF2 | AIR KING | FRAK50S | 50 | 0.1 | Fr. | 120/1 | 1 | 15 | (3) #12 | ceiling, 1 |
| EF-1/7 | GREENHECK | SP-A90 | 100 | 0.1 | Fr. | 120/1 | 1 | 15 | (3) #12 | ceiling, 1 |

NOTES:
1-CEILING GRILLE, DS, WALL/ROOF CAP
2-BD DAMPER, DS, SPEED CONTROLLER, WALL/ROOF CAP
3-BD DAMPER, DS, VIBRATION ISOLATORS, INLET GUARD
4-VFD/DS, VIBRATION ISOLATION BASE, STARTER, CO/NO2 SENSING SYSTEM
5-BD DAMPER, DS, VFD, VIBRATION ISOLATORS

# PLUMBING FIXTURE SCHEDULE

| Mark | Item | Model | Description | Individual Connections W | V | CW | HW | Accessories Supplies | Stops | Carrier | P-Trap | Drain | Other |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| P-1 | Water Closet, Tank Type | ProFlo #PF1401T | Floor-mounted standard height white vitreous china elongated bowl 1.6 gpf gravity type with Fluidmaster 400A flush mechanicsm and bolt covers. Provide molded wood closed front elongated white seat with integral bumpers, external check hinges with stainless steel posts. Type P-1P has open front white seat. | 3" or 4" | 2" | 1" | | 2 | | | | | |
| P-1H, P-1HP | Accessible Water Closet, Tank Type | ProFlo #1403T | Floor-mounted ADA height white vitreous china elongated bowl 1.6 gpf gravity type with Fluidmaster 400A flush mechanicsm and bolt covers. Provide molded wood closed front elongated white seat with integral bumpers, external check hinges with stainless steel posts. Type P-1HP has white open front seat. | 3" or 4" | 2" | 1" | | 2 | | | | | |
| P-1P | Accessible Water Closet, Flush Valve | Proflo #PF1723 with Sloan Regal 111 SFSM | Floor-mounted ADA height white vitreous china elongated bowl 1.28 gpf automatic flush valve. Provide solid plastic open front elongated white seat with integral bumpers, external check hinges with stainless steel posts. | 3" or 4" | 2" | 1" | | | | | | | |
| P-2, 2H | Lavatory, Countertop | ProFlo #PF20174 with Peerless #P136PF-M | 20" x 17" oval vitreous china countertop lavatory with overflow. Faucet is 4" o.c. single lever ADA handle, copper waterways, chrome finish, 1.5 GPM, metal pop-up. | 2" | 1 1/2" or 2" | 1/2" | 1/2" | 2 | 1 | | 1 | 1 | |
| P-2P | Lavatory, Countertop | Proflo #20171WH with Peerless #P136LF | 20"x17" oval vitreous china countertop lavatory with overflow. Faucet is ADA compliant, 1.2 GPM. | 2" | 1 1/2" or 2" | 1/2" | 1/2" | 2 | 1 | | 1 | 1 | |
| P-2W | Lavatory, Wall hung | Proflo #PF5511WH with Peerless #P136LF | ADA compliant, wall hung, single hole 20"x18" oval vitreous china lavatory with overflow. Faucet is ADA compliant, 1.2 GPM. | 2" | 1 1/2" or 2" | 1/2" | 1/2" | 2 | 1 | | 1 | 1 | |
| P-3 | Bathtub | Kohler #K-715/6 with Delta #R-10000-UN/T13420 | 60" x 36" x 20" tall non-slip basin and tub overflow and turn and lift stop with finish to match faucet. Pressure-balanced single handle chrome valve, 1.5 gpm showerhead, tub spout with pull-up diverter. Provide future grab bar blocking. Water Sense label. | 2" | 2" | 1/2" | 1/2" | | | | 2, 4 | | |
| P-3S1 | Shower | Aquarius G4236 with Peerless #PTT188780 | 42" x 36" white fiberglass reinforced plastic/acrylic non-slip basin with surround, soap dishes. Pressure-balanced single handle valve, 2.0 gpm chrome showerhead, drain to match. | 2" | 2" | 1/2" | 1/2" | | | | 2 | | |
| P-3S2 | Shower | Aquarius G4836 with Peerless #PTT188780 | 48" x 36" white fiberglass reinforced plastic/acrylic non-slip basin with surround, soap dishes. Pressure-balanced single handle valve, 2.0 gpm chrome showerhead, drain to match. | 2" | 2" | 1/2" | 1/2" | | | | 2 | | |
| P-3PS | Shower | Freedom Showers #APF6033BFPANC with Moen T8346 | 60" x 33" white fiberglass reinforced plastic/acrylic non-slip basin. Compressable rubber threshold. Handheld ADA sprayer. | 2" | 2" | 1/2" | 1/2" | | | | 2 | | |
| P-4 | Kitchen Sink | ProFlo #PFUE206 with Peerless #P188103LF | Stainless steel under-mount 20 ga.dual bowl 33" x 22" x 6" deep. Single handle faucet with pull-out sprayer. Evergrind Model E101 disposer with cord/plug. | 2" | 2" | 1/2" | 1/2" | 1 | 1 | | 2 | 2 | |
| P-4H | Accessible Kitchen Sink | Elkay ELUHAD281655 with Delta 16968 | Stainless steel under-mount 20 ga.dual bowl 33" x 22" x 6" deep with back outlet. Single handle faucet with pull-out sprayer. ISE Badger 1 disposer with cord/plug. Install per ADA clearnaces. | 2" | 2" | 1/2" | 1/2" | 1 | 1 | | 2 | 2 | |
| P-5 | Washer Box | Guy Gray #WB2000HATM | Recessed non-metallic with dual PVC/ABS 2" outlets, two angle quarter turn stops with built-in shock absorbers. | 2" | 2" | 1/2" | 1/2" | 1 | | | 3 | | |
| P-6 | Water Outlet Box | Guy Gray #BIM877QTS | Recessed non-metallic with two angle quarter turn stops. | | | 1/2" | | 1 | | | | | |
| P-7 | Urinal | American Standard #6561.017 | White vitreous china wall hung with 3/4" top spud, 1.0 gallon siphon jet flushing action. Mount rim per Architectural elevation. | 2" | 2" | 3/4" | | 3 | | 1 | 1 | 2 | |
| P-8 | Janitor's Sink | Fiat #MSB-2424 | 24" x 24" x 10" white molded stone with stainless steel integral drain, chrome plated brass wall mounted faucet with VB, integral stops, adjustable wall brace, pail hook, 3/4" hose threaded spout. | 2" or 3" | 2" | 1/2" | 1/2" | | | | 2 | | 2 |
| P-9 | Accessible Dual Height Fountain with Bottle Filler | Elkay #LZSTL8WSLK | ADA wall-mounted water station including bubbler and bottle-filler, side and front push buttons. | 2" | 1 1/2" or 2" | 1/2" | | 2 | 1 | | 2 | | |
| P-10 | Undercounter Sink | Elkay ELUHAD281655/LKGT2041 | 18 ga. Undermount 31.5"x18.5"x5.5" deep stainless steel sink with strainer and st. stl. finish single handle chrome, brass body, ceramic disc pull out sprayer 1.75 gpm faucet. This is to be an ADA installation. | 2" | 1 1/2" or 2" | 1/2" | 1/2" | 1 | 1 | | 2 | 2 | |

Supplies
1 - Flexible braided stainless steel
2 - Flexible braided compression hose.
3 - Zurn #2ER0003-CP 1.0 gpf diaphragm type.
4 - Provide tempering valve below sink set at 110 deg

Stops
1 - Angle handle compression

Carrier
1 - Steel tube floor-mounted in-wall carrier with arms

P-Trap
1 - PVC with deep escutcheon
2 - PVC
3 - deep seal PVC trap and 30" standpipe.

Drain
1 - Metal pop-up with tailpiece
2 - Basket strainers in finish to match faucet, tailpiece.

# WATER HEATER SCHEDULE

| MARK | MFGR | MODEL | FUEL | VOLTAGE/PH/ AMPS | INPUT | EFFICIENCY/ PF | GALLONS STORAGE | GPH RECOVERY @ 80° RISE | FLUE TYPE | EXPANSION | CIRCULATOR GPM/HD | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WH-CL1, CL5 | A.O. SMITH | EMT-2.5 | ELEC | 120/1/13 | 1.4 KW | N/A | 2.5 | 7 | N/A | RELIEF V. | | 1, 2 |
| WH-CL2, WH-CL3 | A.O. SMITH | ECLN-40 | ELEC | 208/1/19 | 4.5 KW | 0.95 | 38 | 23 | N/A | 2 GAL TANK | | 1, 2, 3 |
| CL4 | A.O. SMITH | EJC-6 | ELEC | 120/1/13 | 1.5 KW | N/A | 2.5 | 7 | N/A | RELIEF V. | | 1, 2 |
| TYP APT | A.O. SMITH | ECLN-40 | ELEC | 208/1/19 | 4.5 KW | 0.95 | 38 | 23 | N/A | | | 1, 2, 3 |
| | | | | | | | | | | | | |

NOTES
1- PROVIDE ASME P&T VALVE, DRAIN VALVE
2- PROVIDE COMBINATION STOP AND OPERATING PRESSURE RELIEF VALVE
3- LOW TYPE

# DRAIN SCHEDULE

| MARK | APPLICATION | MFGR | MODEL | BODY MAT'L | DEPTH | GRATE MAT'L | GRATE SHAPE | ACCESSORIES |
|---|---|---|---|---|---|---|---|---|
| APT FD | FLOOR | SIOUX CHIEF | 842 | ABS/PVC | 3" | NICKEL BRONZE | 6" SQUARE | 2 |
| FD-1 | FLOOR | ZURN | ZN-415S | COATED CAST IRON | 3" | NICKEL BRONZE | 6" ROUND | 1, 2 |
| FD-2 | FLOOR | ZURN | Z-611-S | COATED CAST IRON | 6" | COATED CAST IRON | 9" SQUARE | 1, 2, 3 |
| FD-3 | FLOOR - GARAGE | ZURN | Z-534-Y | COATED CAST IRON | 3" | COATED CAST IRON | 12" ROUND | 6 |
| RD-1 | ROOF | SIOUX CHIEF | 868 | ABS/PVC | 6" | POLY | DOME | |
| RD-2 | ROOF | SIOUX CHIEF | 868-STP2 | ABS/PVC | 6" | POLY | DOME | 5 |
| TRENCH | TRENCH | ABT | POLYDRAIN | POLYMER CONCRETE | 6" | EPOXY CTD DUCTILE | 6" WIDTH | 4 |

ACCESSORIES:
1 - DEEP TRAP, ADJUSTABLE GRATE
2 - USE WIDE FLANGE MODEL WHERE IN WOOD CONSTRUCTION
3 - INTERNAL STRAINER
4 - SLOPED TO END , MEDIUM DUTY GRATE
5 - 2" DAM FOR OVERFLOW SERVICE
6 - SEDIMENT BUCKET


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3639 SW Summerfield Drive, Suite A
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FAX: (785) 233-0647
Email: lsapa@lsapa.com
LSA PROJECT NO. 1904023


RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI RICHARD R. BEARDMORE NO. PE-2004020755 PROFESSIONAL ENGINEER
4-3-20

ARCHITECT: TR,i ARCHITECTS
STRUCTURAL ENGINEER: BOB D CAMPBELL & COMPANY
CIVIL ENGINEER: RENAISSANCE INFRASTRUCTURE CONSULTING
GENERAL CONTRACTOR: BRINKMANN CONSTRUCTORS
MECHANICAL ENGINEER: LATIMER SOMMERS & ASSOCIATES
PLUMBING ENGINEER: LATIMER SOMMERS & ASSOCIATES
ELECTRICAL ENGINEER: LATIMER SOMMERS & ASSOCIATES

Pearl COMPANIES

# Summit at West Pryor


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DATE: 09.12.19

REVISIONS
REVISION 3 — 04.03.20

DWG BY: RRB
TR,i PROJECT NO.: 18-046
SHEET NO.: MP104
MECHANICAL SCHEDULES

## SITE LIGHT FIXTURE SCHEDULE

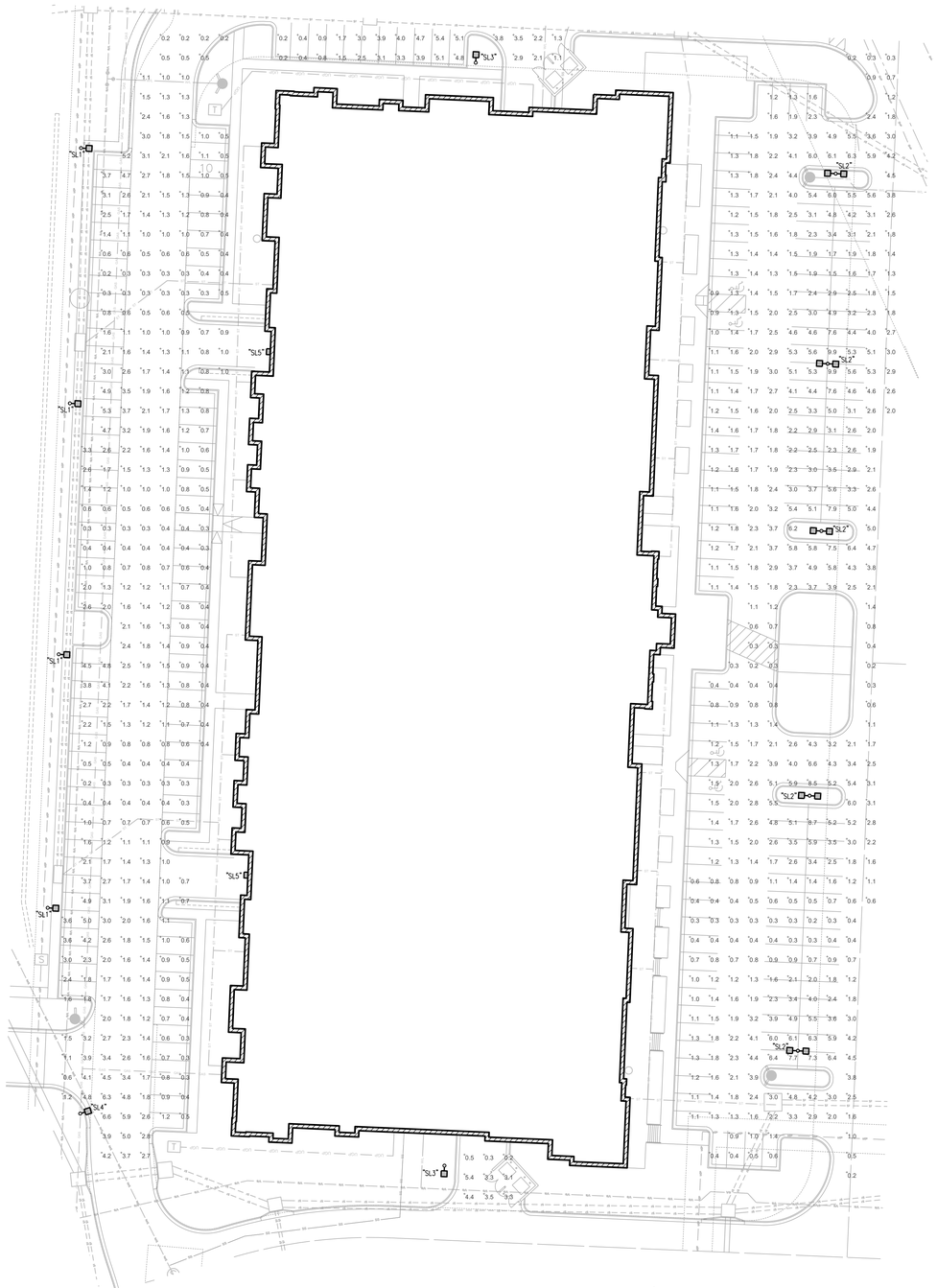
| MARK | MANUFACTURE | MODEL NUMBER | MOUNTING | | | FINISH | LAMPS | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | RECESS | SURFACE | WALL | | LED | FLOUR. | HID | CODE | QUANTITY | |
| SL 1 | COOPER | GLEON-AF-03-LED-E1-T4FT | | POLE | | BRONZE | X | | | 20,515LUM/191W | 1 | 1 |
| SL 2 | COOPER | (2) GLEON-AF-03-LED-E1-T4FT | | POLE | | BRONZE | X | | | 20,515LUM/191W | 2 | 1 |
| SL 3 | COOPER | GLEON-AF-03-LED-E1-SL2 | | POLE | | BRONZE | X | | | 19,977LUM/191W | 1 | 1 |
| SL 4 | COOPER | GLEON-AF-03-LED-E1-T3R | | POLE | | BRONZE | X | | | 19,713LUM/191W | 1 | 1 |
| SL 5 | COOPER | ISC-E02-LED-E1-BL3 | X | | X | BRONZE | X | | | 5,503LUM/55W | 1 | 2 |

REMARKS

1 MOUNT ON 25' STRIGHT SQUARE STEEL MATCHING POLE.
2 MOUNT AT 12' AFG.

## STATISTICS

| Description | Avg | Max | Min | Max/Min | Avg/Min |
|---|---|---|---|---|---|
| PARKING LOT | 2.0 FC | 9.9 FC | 0.2 FC | 49.5:1 | 10:01 |




1 SITE PHOTOMETRIC PLAN
1"=30'-0"

NORTH

## McGraw-Edison

**DESCRIPTION**

The Galleon™ LED luminaire delivers exceptional performance in a highly scalable, low-profile design. Patented, high-efficiency AccuLED Optics™ system provides uniform and energy conscious illumination to walkways, parking lots, roadways, building areas and security lighting applications. IP66 rated and UL/cUL Listed for wet locations.

| | |
|---|---|
| Catalog # | Type: "SL1", "SL2", "SL3", "SL4" |
| Project | |
| Comments | Date |
| Prepared by | |

**SPECIFICATION FEATURES**

**Construction**
Extruded aluminum driver enclosure thermally isolated from Light Squares for optimal thermal performance. Heavy-wall, die-cast aluminum end caps enclose housing and die-cast aluminum heat sinks. A unique, patent pending interlocking housing and heat sink provides scalability with superior structural rigidity. 3G vibration tested and rated. Optional tool-less hardware available for ease of entry into electrical chamber. Housing is IP66 rated.

**Optics**
Patented, high-efficiency injection-molded AccuLED Optics technology. Optics are precisely designed to shape the distribution maximizing efficiency and application spacing. AccuLED Optics create consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (+/- 275K) CCT 70 CRI. Optional 3000K, 5000K and 6000K CCT.

**Electrical**
LED drivers are mounted to removable tray assembly for ease of maintenance. 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. 480V is compatible for use with 480Y/Wye systems only. Standard with 0-10V dimming. Shipped standard with Eaton proprietary circuit module designed to withstand 10kV of transient line surge.The Galleon LED luminaire is suitable for operation in -40°C to 40°C ambient environments. For applications with ambient temperatures exceeding 40°C, specify the HA (High Ambient) option. Light Squares are IP66 rated. Greater than 90% lumen maintenance at 60,000 hours. Available in standard 1A drive current and optional 600mA, 800mA and 1200mA drive currents (nominal).

**Mounting**
STANDARD ARM MOUNT: Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during mounting. When mounting two or more luminaires at 90° and 120° apart, the EA extended arm may be required. Refer to the arm mounting requirement table. Round pole adapter included. For wall mounting, specify wall mount bracket option. QUICK MOUNT ARM: Adapter is bolted directly to the pole. Quick mount arm slide into place on the adapter and is secured via two screws, facilitating quick and easy installation.The versatile, patent pending, quick mount arm accommodates multiple drill patterns ranging from 1-1/2" to 4-7/8". Removal of the door on the quick mount arm enables wiring of the fixture without having to access the driver compartment. A knock-out enables round pole mounting.

**Finish**
Housing finished in super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Heat sink is powder coated black. Standard housing colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available.

**Warranty**
Five-year warranty.

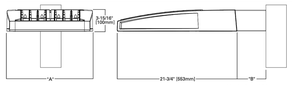
**GLEON**
GALLEON LED

**1-10 Light Squares**
**Solid State LED**

**AREA/SITE LUMINAIRE**

LuminaStar Technology
LED LENS

**DIMENSIONS**

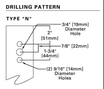



**DIMENSION DATA**

| Number of Light Squares | 'A' Width | 'B' Standard Arm Length | 'B' Optional Arm Length * | Weight with Arm (lbs.) | EPA with Arm * (Sq. Ft.) |
|---|---|---|---|---|---|
| 1-4 | 15-1/2" (394mm) | 7" (178mm) | 10" (254mm) | 33 (15.0 kgs.) | 0.86 |
| 5-6 | 21-5/8" (549mm) | 7" (178mm) | 10" (254mm) | 44 (20.0 kgs.) | 1.00 |
| 7-8 | 27-5/8" (702mm) | 7" (178mm) | 13" (330mm) | 54 (24.5 kgs.) | 1.07 |
| 9-10 | 33-3/4" (857mm) | 7" (178mm) | 16" (406mm) | 63 (28.6 kgs.) | 1.12 |

NOTES: 1. Optional arm length to be used when mounting two fixtures at 90° on a single pole. 2. EPA calculated with optional arm length.

**DRILLING PATTERN**




CERTIFICATION DATA
IP66 Rated
DesignLights Consortium® Qualified*
IP66 Rated
ISO 9001
LM79 / LM80 Compliant
UL/cUL Wet Location Listed

ENERGY DATA
Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120V-277V 50/60Hz
347V, 480V 60Hz
-40°C Min. Temperature
40°C Max. Temperature
50°C Max. Temperature (HA Option)

EATON
Powering Business Worldwide

*www.designlights.org

TD600020EN
June 3, 2019 11:11 AM

## McGraw-Edison

**DESCRIPTION**

The Impact Elite family of wall luminaires is the ideal complement to site design. Incorporating modular LightSquares technology, the Impact Elite luminaire provides outstanding uniformity and energy-conscious illumination. Combined with a rugged construction, the Impact Elite luminaire is the ideal facade and security luminaire for zones surrounding schools, office complexes, apartments and recreational facilities. UL/cUL listed for wet locations.

| | |
|---|---|
| Catalog # | Type: "SL5" |
| Project | |
| Comments | Date |
| Prepared by | |

**SPECIFICATION FEATURES**

**Construction**
Heavy-wall, die-cast aluminum housing and removable hinged door frame for precise tolerance control and repeatability. Hinged door inset for clean mating with housing surface and secured via two captive fasteners. Optional tamper-resistant Torx™ head fasteners offer vandal resistant access to the electrical chamber.

**Optics**
Choice of 10 patented, high-efficiency AccuLED Optics™ distributions. Optics are precisely designed to shape the light output, maximizing efficiency and application spacing. AccuLED Optics technology creates consistent distributions with the scalability to meet customized application requirements. Offered Standard in 4000K (+/- 275K) CCT and minimum 70 CRI. Optional 3000K, 5000K and 5700K CCT.

**Electrical**
LED drivers mount to die-cast aluminum back housing for optimal heat sinking, operation efficacy, and prolonged life. Standard drivers feature electronic universal voltage (120-277V 50/60Hz), 347V 60Hz or 480V 60Hz operation, greater than 0.9 power factor, less than 20% harmonic distortion, and are suitable for operation in -40°C to 40°C ambient environments. All fixtures are shipped standard with 10kV/10kA common – and differential – mode surge protection. LightSquares feature an IP66 enclosure rating and maintain greater than 90% lumen maintenance at 60,000 hours per IESNA TM-21. Emergency egress options for -30°C ambient environments and occupancy sensor available.

**Mounting**
Gasketed and zinc plated rigid steel mounting attachment fits directly to 4" j-box or wall with the Impact Elite "Hook-N-Lock" mechanism for quick installation. Secured with two captive corrosion resistant black oxide coated allen head set screws concealed but accessible from bottom of fixture.

**Finish**
Cast components finished in a five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available. Consult the McGraw-Edison Architectural Colors brochure for the complete selection.

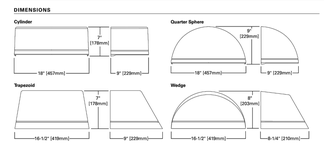
**Warranty**
Five-year warranty.

**ISC/ISS/IST/ISW**
IMPACT ELITE LED

**1 LightSquare**
**Solid State LED**

**WALL MOUNT LUMINAIRE**

**DIMENSIONS**




**HOOK-N-LOCK MOUNTING**

CERTIFICATION DATA
UL/cUL Listed
LM79 / LM80 Compliant
IP66 LightSquare
DesignLights Consortium® Qualified*
ISO 9001

ENERGY DATA
Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120V-277V 50/60Hz, 347V60Hz, 480V60Hz
-40°C Minimum Temperature
40°C Ambient Temperature Rating

SHIPPING DATA
Approximate Net Weight:
18 lbs. (8 kgs.)

EATON
Powering Business Worldwide

*www.designlights.org

TD614030EN
July 23, 2019 4:12 PM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FAX: (785) 233-0647
Email: lsapa@lsapa.com


LSA PROJECT NO. 1904023

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
JACKSON COUNTY, MISSOURI
04/13/2020

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER
4-3-20


ARCHITECT — TR.i ARCHITECTS
STRUCTURAL ENGINEER — BOB D CAMPBELL & COMPANY
CIVIL ENGINEER — RENAISSANCE INFRASTRUCTURE CONSULTING
GENERAL CONTRACTOR — BRINKMANN CONSTRUCTORS
MECHANICAL ENGINEER — LATIMER SOMMERS & ASSOCIATES
PLUMBING ENGINEER — LATIMER SOMMERS & ASSOCIATES
ELECTRICAL ENGINEER — LATIMER SOMMERS & ASSOCIATES


Pearl COMPANIES

# Summit at West Pryor

TR.i ARCHITECTS


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St. Louis, Missouri 63119
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F: 314-395-9751
www.triarchitects.com

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**DATE:** 09.12.19

**REVISIONS**

| | | |
|---|---|---|
| 2 | FDP RESUBMITTAL | 09.11.19 |
| 3 | REVISION 3 | 04.03.20 |

**DWG BY** RRB

**TR.i PROJECT NO.** 18-046

**SHEET NO.**

# E001

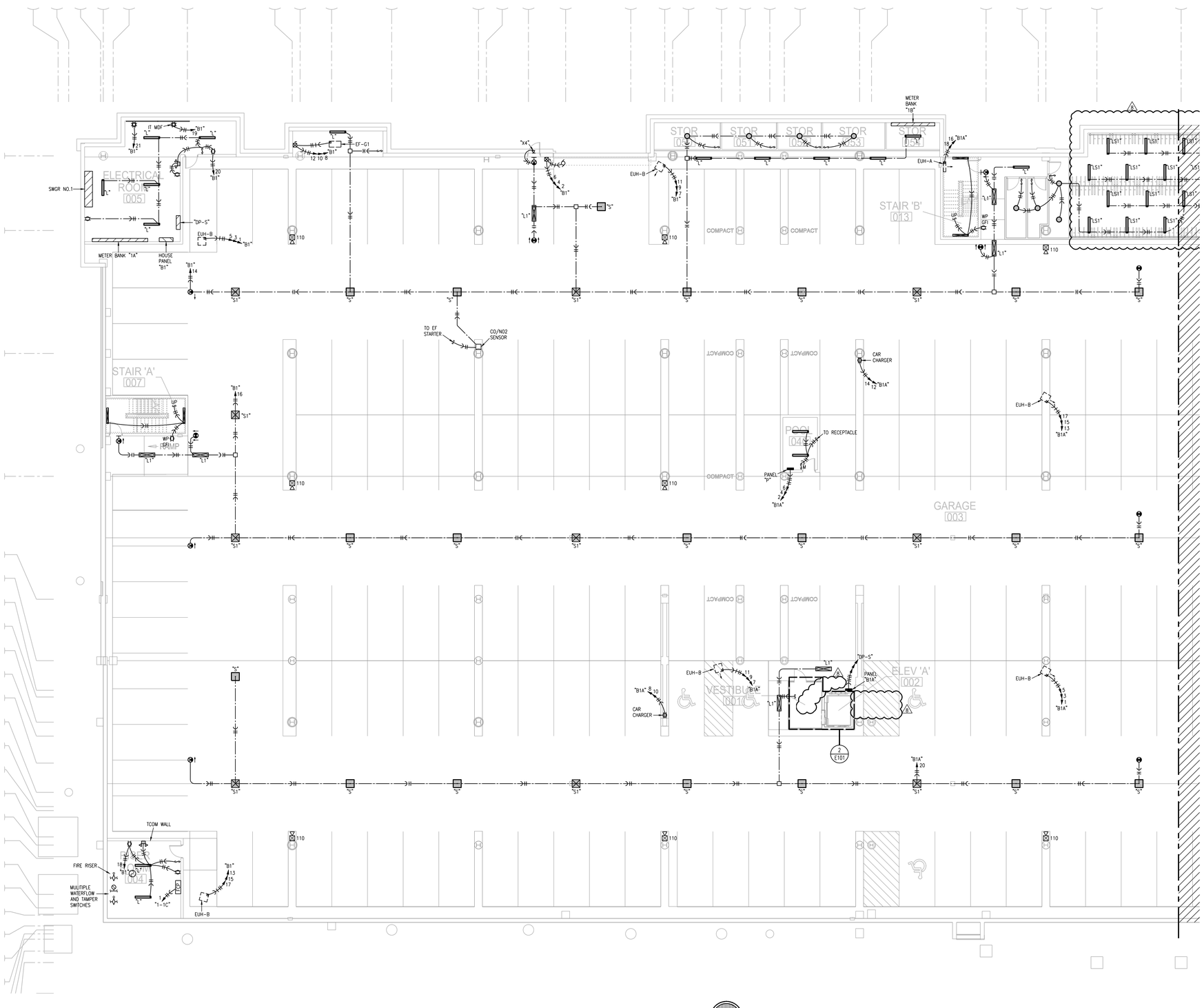
**SITE PHOTOMETRIC PLAN**

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/13/2020

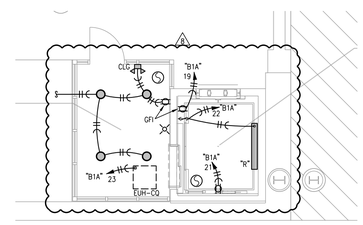
STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER
4-3-20

| NOTES: |
|---|
| 1. ALL ⊗ ARE TYPE "A" UNLESS NOTED OTHERWISE. |
| 2. ALL STAIR LIGHTS ARE TYPE "L1" UNLESS NOTED OTHERWISE. |
| 3. ALL ⊗ ARE TYPE "X1" UNLESS NOTED OTHERWISE. |
| 4. ALL ⊗ ARE TYPE "X2" UNLESS NOTED OTHERWISE. |
| 5. ALL ⊗ ARE TYPE "X5" UNLESS NOTED OTHERWISE. |
| 6. CONNECT FIRE/SMOKE DAMPERS SHOWN ON MECHANICAL PLANS TO 120V. AND FIRE ALARM RELAY TO SHUT UPON SMOKE DETECTION IN CORRIDORS. |
| 7. SEE UNIT PLANS FOR FURTHER WORK. |
| 8. LIGHTS AT APT. ENTRY DOORS CONNECT TO APT. HOT CIRCUIT. |
| 9. ALL AHU'S HAVE AUTO DAMPER/THERMOSTAT SYSTEM TO WIRE. SEE HVAC PLANS. |
| 10. EXIT SIGNS SHALL BE READILY VISIBLE TO OCCUPANTS. |
| 11. EXTERIOR LIGHTING TO BE ROUTED THRU PHOTOCELL. |
| 12. "DP-1" DENOTES DISTRIBUTION PANEL. |

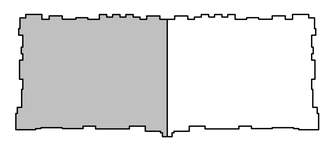
| LEGEND: |
|---|
| (1) TO LIGHTING CONTROL PANEL. |




1 **PARTIAL GARAGE PLAN**
3/32"=1'-0" ELECTRICAL
NORTH




2 **PARTIAL GARAGE PLAN TYP. ELEVATOR PIT/LOBBY**
3/16"=1'-0" ELECTRICAL
NORTH



**KEY PLAN**
NO SCALE
NORTH

LS&A
Latimer Sommers & Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lsapa@lsapa.com
LSA PROJECT NO. 1904023

| | |
|---|---|
| ARCHITECT | TR,i ARCHITECTS |
| STRUCTURAL ENGINEER | BOB D CAMPBELL & COMPANY |
| CIVIL ENGINEER | RENAISSANCE INFRASTRUCTURE CONSULTING |
| GENERAL CONTRACTOR | BRINKMANN CONSTRUCTORS |
| MECHANICAL ENGINEER | LATIMER SOMMERS & ASSOCIATES |
| PLUMBING ENGINEER | LATIMER SOMMERS & ASSOCIATES |
| ELECTRICAL ENGINEER | LATIMER SOMMERS & ASSOCIATES |

Pearl COMPANIES

# Summit at West Pryor

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**DATE:** 09.12.19

**REVISIONS**

| | | |
|---|---|---|
| 1 | PERMIT COMMENTS | 09.06.19 |
| 2 | REVISION 1 | 12.20.19 |
| 3 | REVISION 2 | 1.24.20 |
| 4 | REVISION 3 | 04.03.20 |

**DWG BY** RRB

**TR,i PROJECT NO.** 18-046

**SHEET NO.**

# E101

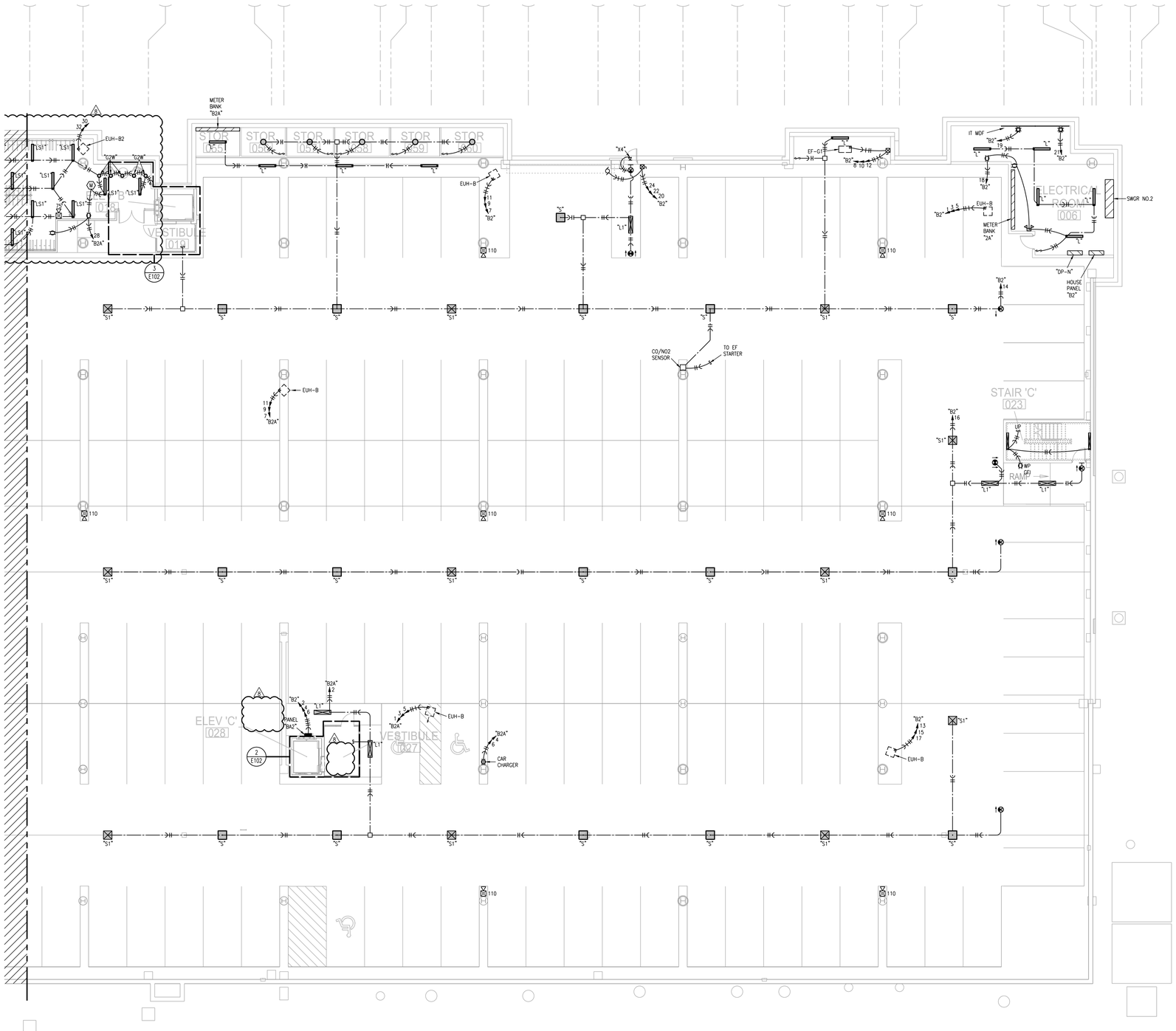
**PARTIAL GARAGE PLAN - ELECTRICAL**

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
SUMMIT, MISSOURI
04/13/2020

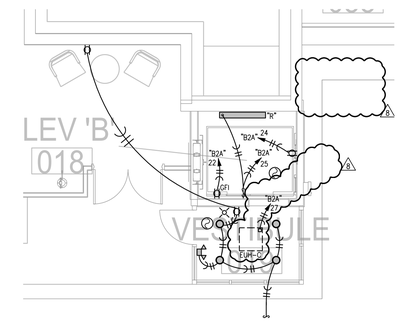
STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER PE-2004020223
PROFESSIONAL ENGINEER
4-3-20

| NOTES: |
|---|
| 1. ALL ⊗ ARE TYPE "A" UNLESS NOTED OTHERWISE. |
| 2. ALL STAIR LIGHTS ARE TYPE "L1" UNLESS NOTED OTHERWISE. |
| 3. ALL ⊗ ARE TYPE "X1" UNLESS NOTED OTHERWISE. |
| 4. ALL ⊗ ARE TYPE "X2" UNLESS NOTED OTHERWISE. |
| 5. ALL ⊗ ARE TYPE "X5" UNLESS NOTED OTHERWISE. |
| 6. CONNECT FIRE/SMOKE DAMPERS SHOWN ON MECHANICAL PLANS TO 120V. AND FIRE ALARM RELAY TO SHUT UPON SMOKE DETECTION IN CORRIDORS. |
| 7. SEE UNIT PLANS FOR FURTHER WORK. |
| 8. LIGHTS AT APT. ENTRY DOORS CONNECT TO APT. HOT CIRCUIT. |
| 9. ALL AHU'S HAVE AUTO DAMPER/THERMOSTAT SYSTEM TO WIRE. SEE HVAC PLANS. |
| 10. EXIT SIGNS SHALL BE READILY VISIBLE TO OCCUPANTS. |
| 11. EXTERIOR LIGHTING TO BE ROUTED THRU PHOTOCELL. |
| 12. "DP-1" DENOTES DISTRIBUTION PANEL. |

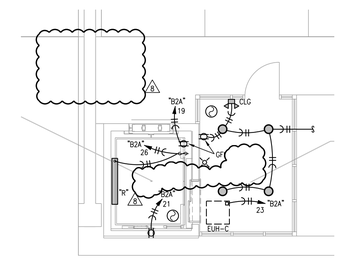
| LEGEND: |
|---|
| (1) TO LIGHTING CONTROL PANEL. |



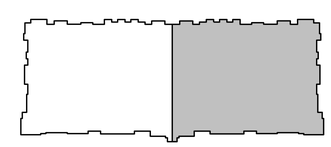

## 1 PARTIAL GARAGE PLAN
3/32"=1'-0" ELECTRICAL
NORTH




## 3 PARTIAL GARAGE PLAN TYP. ELEVATOR PIT/LOBBY
3/16"=1'-0" ELECTRICAL
NORTH




## 2 PARTIAL GARAGE PLAN TYP. ELEVATOR PIT/LOBBY
3/16"=1'-0" ELECTRICAL
NORTH



## KEY PLAN
NO SCALE
NORTH

LS&A Lattimer Sommers & Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lsapa@lsapa.com
LSA PROJECT NO. 1904023

# Summit at West Pryor

| | |
|---|---|
| ARCHITECT | TR.i ARCHITECTS |
| STRUCTURAL ENGINEER | BOB D CAMPBELL & COMPANY |
| CIVIL ENGINEER | RENAISSANCE INFRASTRUCTURE CONSULTING |
| GENERAL CONTRACTOR | BRINKMANN CONSTRUCTORS |
| MECHANICAL ENGINEER | LATIMER SOMMERS & ASSOCIATES |
| PLUMBING ENGINEER | LATIMER SOMMERS & ASSOCIATES |
| ELECTRICAL ENGINEER | LATIMER SOMMERS & ASSOCIATES |

Pearl COMPANIES

TR.i ARCHITECTS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9812 Manchester Road
St. Louis, Missouri 63119
T: 314-395-9750
F: 314-395-9751
www.triarchitects.com

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DATE: 09.12.19

REVISIONS

| # | | |
|---|---|---|
| 1 | PERMIT COMMENTS | 09.06.19 |
| 2 | REVISION 1 | 12.20.19 |
| 3 | REVISION 2 | 1.24.20 |
| 4 | REVISION 3 | 04.03.20 |

DWG BY RRB

TR.i PROJECT NO. 18-046

SHEET NO.

E102

PARTIAL GARAGE PLAN - ELECTRICAL

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER
4-3-20

| | |
|---|---|
| TR.i ARCHITECTS | ARCHITECT |
| BOB D CAMPBELL & COMPANY | STRUCTURAL ENGINEER |
| RENAISSANCE INFRASTRUCTURE CONSULTING | CIVIL ENGINEER |
| BRINKMANN CONSTRUCTORS | GENERAL CONTRACTOR |
| LATIMER SOMMERS & ASSOCIATES | MECHANICAL ENGINEER |
| LATIMER SOMMERS & ASSOCIATES | PLUMBING ENGINEER |
| LATIMER SOMMERS & ASSOCIATES | ELECTRICAL ENGINEER |

Pearl COMPANIES

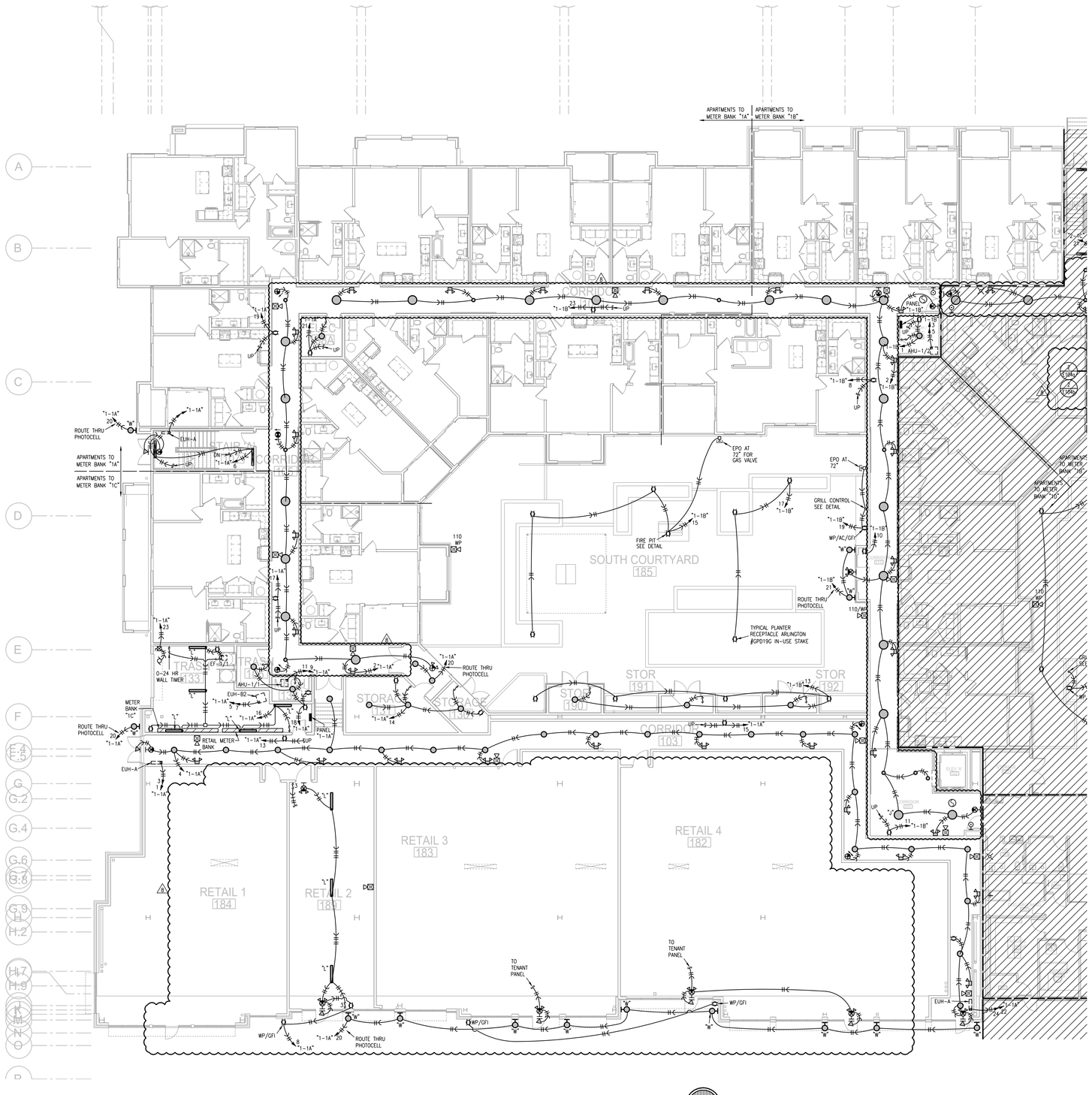
# Summit at West Pryor

NOTES:

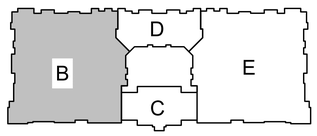
1. ALL ⊙ ARE TYPE "A" UNLESS NOTED OTHERWISE.
2. ALL STAIR LIGHTS ARE TYPE "L1" UNLESS NOTED OTHERWISE.
3. ALL ⊗ ARE TYPE "X1" UNLESS NOTED OTHERWISE.
4. ALL ⊗ ARE TYPE "X2" UNLESS NOTED OTHERWISE.
5. ALL ⊗ ARE TYPE "X5" UNLESS NOTED OTHERWISE.
6. CONNECT FIRE/SMOKE DAMPERS SHOWN ON MECHANICAL PLANS TO 120V. AND FIRE ALARM RELAY TO SHUT UPON SMOKE DETECTION IN CORRIDORS.
7. SEE UNIT PLANS FOR FURTHER WORK.
8. LIGHTS AT APT. ENTRY DOORS CONNECT TO APT. HOT CIRCUIT.
9. ALL AHU'S HAVE AUTO DAMPER/THERMOSTAT SYSTEM TO WIRE. SEE HVAC PLANS.
10. EXIT SIGNS SHALL BE READILY VISIBLE TO OCCUPANTS.
11. EXTERIOR LIGHTING TO BE ROUTED THRU PHOTOCELL.
12. "DP-1" DENOTES DISTRIBUTION PANEL.

LEGEND:

(1) TO LIGHTING CONTROL PANEL.




1 FIRST FLOOR PLAN - AREA B
3/32"=1'-0"
ELECTRICAL
NORTH




KEY PLAN
NO SCALE
NORTH

LS&A Latimer Sommers & Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lsapa@lsapa.com
LSA PROJECT NO. 1904023

TR.i ARCHITECTS


TR.i Architects
9812 Manchester Road
St. Louis, Missouri 63119
T: 314-395-9750
F: 314-395-9751
www.trearchitects.com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DATE: 09.12.19

REVISIONS

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|---|---|
| 6 REVISION 1 | 12.20.19 |
| 8 REVISION 3 | 04.03.20 |

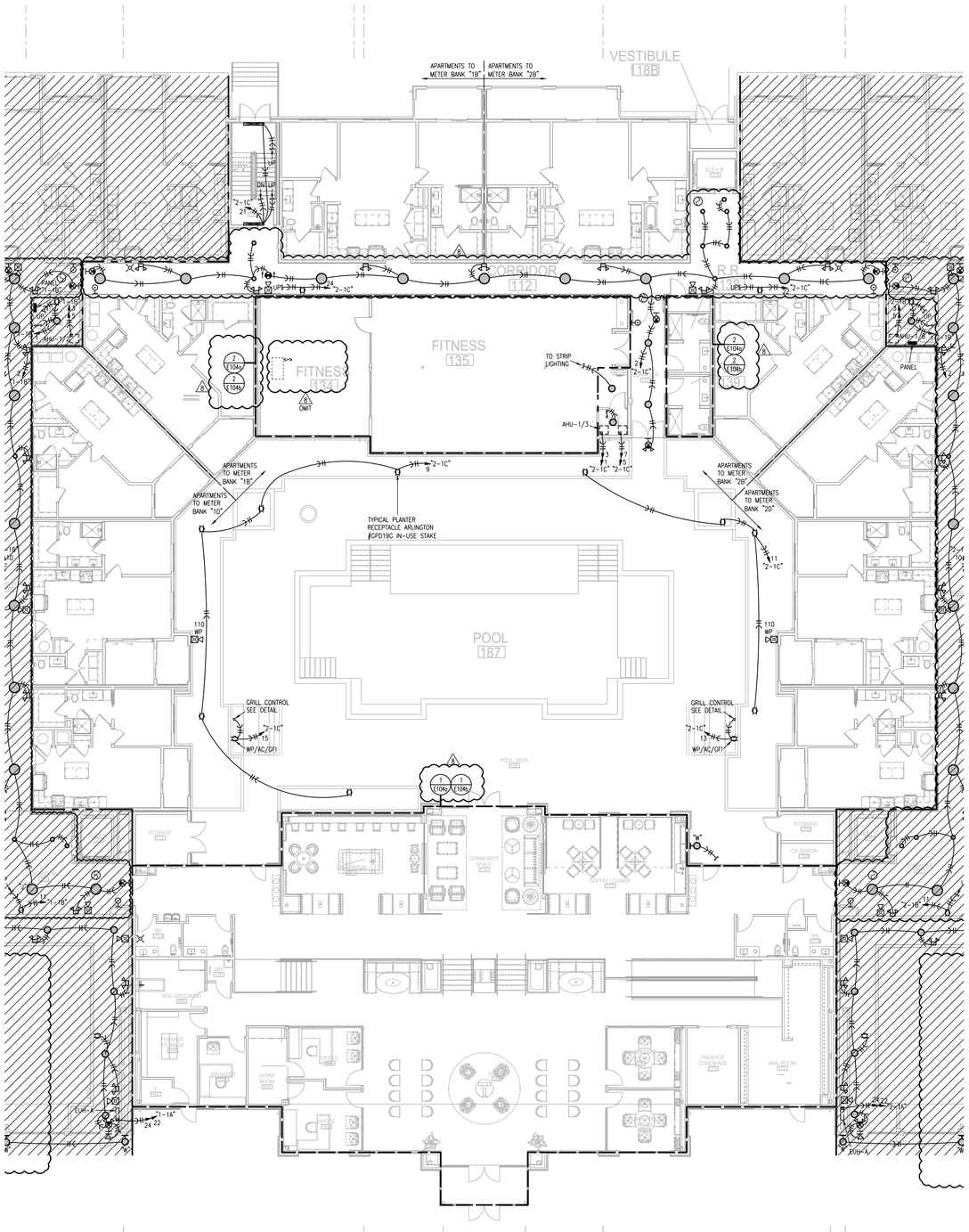
DWG BY RRB

TR.i PROJECT NO. 18-046

SHEET NO.

E103

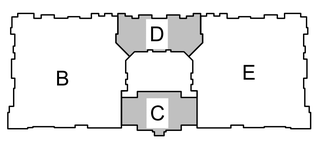
FIRST FLOOR PLAN - AREA B - ELECTRICAL




1 **FIRST FLOOR PLAN - AREA C/D**
3/32"=1'-0"
POWER
NORTH

| NOTES: |
|---|
| 1. ALL ⊗ ARE TYPE "A" UNLESS NOTED OTHERWISE. |
| 2. ALL STAIR LIGHTS ARE TYPE "L1" UNLESS NOTED OTHERWISE. |
| 3. ALL ⊗ ARE TYPE "X1" UNLESS NOTED OTHERWISE. |
| 4. ALL ⊗ ARE TYPE "X2" UNLESS NOTED OTHERWISE. |
| 5. ALL ⊗ ARE TYPE "X5" UNLESS NOTED OTHERWISE. |
| 6. CONNECT FIRE/SMOKE DAMPERS SHOWN ON MECHANICAL PLANS TO 120V. AND FIRE ALARM RELAY TO SHUT UPON SMOKE DETECTION IN CORRIDORS. |
| 7. SEE UNIT PLANS FOR FURTHER WORK. |
| 8. LIGHTS AT APT. ENTRY DOORS CONNECT TO APT. HOT CIRCUIT. |
| 9. ALL AHU'S HAVE AUTO DAMPER/THERMOSTAT SYSTEM TO WIRE. SEE HVAC PLANS. |
| 10. EXIT SIGNS SHALL BE READILY VISIBLE TO OCCUPANTS. |
| 11. EXTERIOR LIGHTING TO BE ROUTED THRU PHOTOCELL. |
| 12. "DP-1" DENOTES DISTRIBUTION PANEL. |

| LEGEND: |
|---|
| (1) TO LIGHTING CONTROL PANEL. |




**KEY PLAN**
NO SCALE
NORTH

LS&A
Latimer Sommers & Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lsapa@lsapa.com
LSA PROJECT NO. 1904023

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER
4-3-20

ARCHITECT — TR.i ARCHITECTS
STRUCTURAL ENGINEER — BOB D CAMPBELL & COMPANY
CIVIL ENGINEER — RENAISSANCE INFRASTRUCTURE CONSULTING
GENERAL CONTRACTOR — BRINKMANN CONSTRUCTORS
MECHANICAL ENGINEER — LATIMER SOMMERS & ASSOCIATES
PLUMBING ENGINEER — LATIMER SOMMERS & ASSOCIATES
ELECTRICAL ENGINEER — LATIMER SOMMERS & ASSOCIATES

Pearl COMPANIES

# Summit at West Pryor

TR.i ARCHITECTS

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St. Louis, Missouri 63119
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F: 314-395-9751
www.triarchitects.com
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**DATE:** 09.12.19

**REVISIONS**

| | |
|---|---|
| REVISION 1 | 12.20.19 |
| REVISION 3 | 04.03.20 |

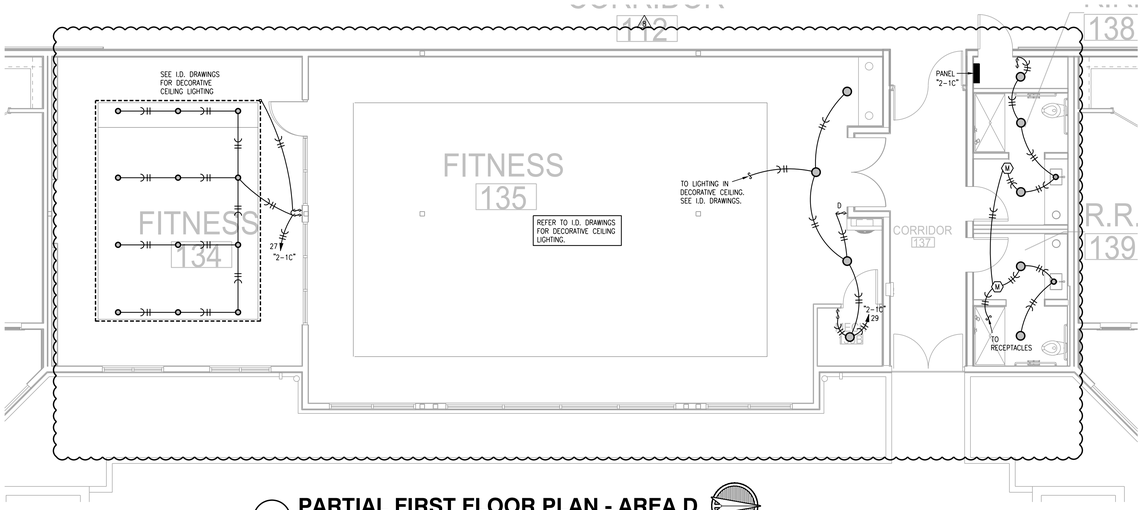
**DWG BY** RRB

**TR.i PROJECT NO.** 18-046

**SHEET NO.**

# E104

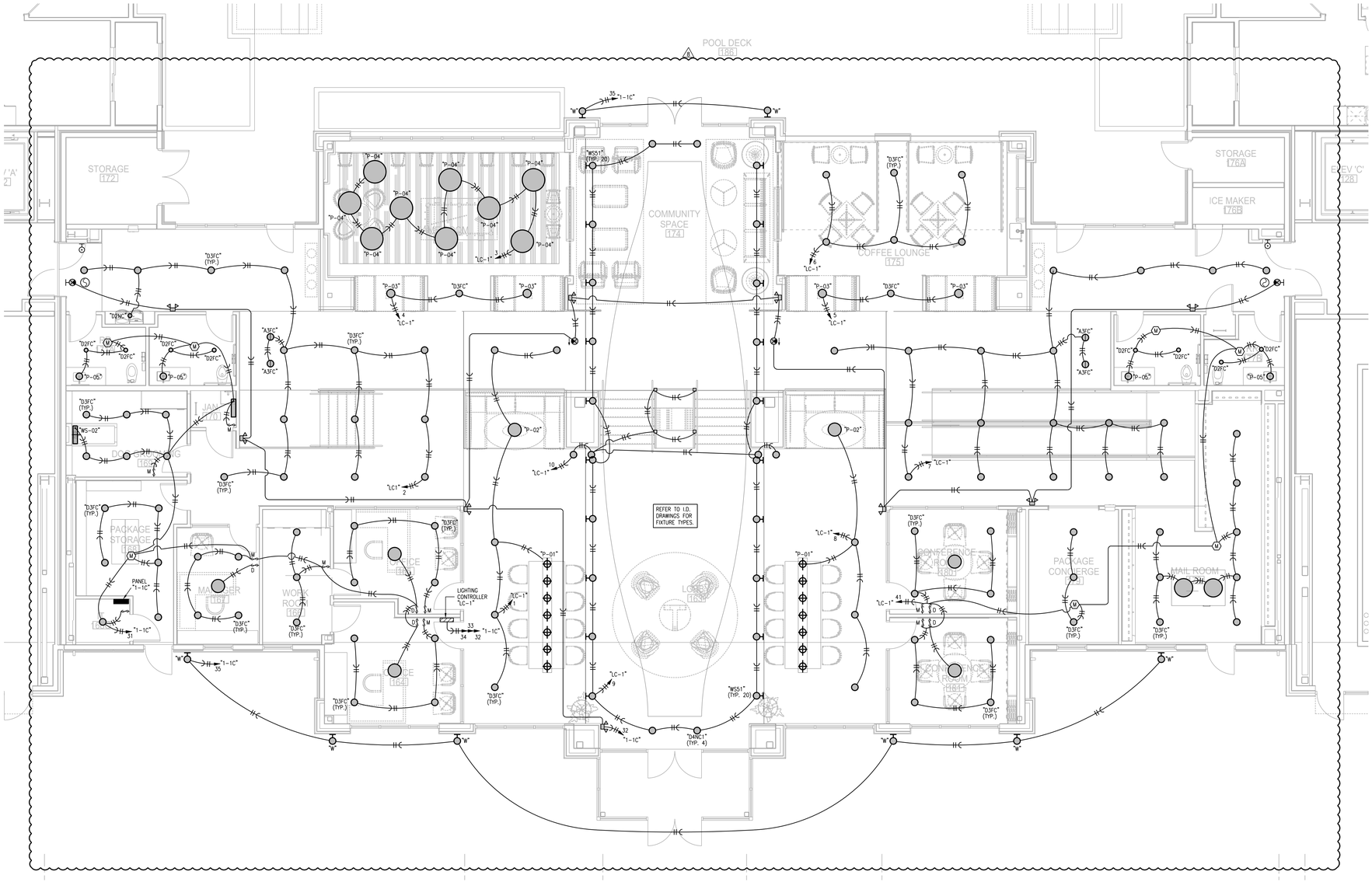
**FIRST FLOOR PLAN - AREA C/D - ELECTRICAL**




## 2 PARTIAL FIRST FLOOR PLAN - AREA D

3/16"=1'-0" LIGHTING

NORTH




## 1 FIRST FLOOR PLAN - AREA C

3/16"=1'-0" ELECTRICAL

NORTH

| NOTES: |
|---|
| 1. ALL ⊗ ARE TYPE "A" UNLESS NOTED OTHERWISE. |
| 2. ALL STAIR LIGHTS ARE TYPE "L1" UNLESS NOTED OTHERWISE. |
| 3. ALL ⊗ ARE TYPE "X1" UNLESS NOTED OTHERWISE. |
| 4. ALL ⊗ ARE TYPE "X2" UNLESS NOTED OTHERWISE. |
| 5. ALL ⊗ ARE TYPE "X5" UNLESS NOTED OTHERWISE. |
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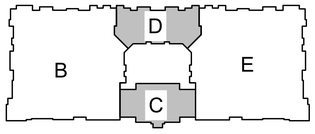
| 7. SEE UNIT PLANS FOR FURTHER WORK. |
| 8. LIGHTS AT APT. ENTRY DOORS CONNECT TO APT. HOT CIRCUIT. |
| 9. ALL AHU'S HAVE AUTO DAMPER/THERMOSTAT SYSTEM TO WIRE. SEE HVAC PLANS. |
| 10. EXIT SIGNS SHALL BE READILY VISIBLE TO OCCUPANTS. |
| 11. EXTERIOR LIGHTING TO BE ROUTED THRU PHOTOCELL. |
| 12. "DP-1" DENOTES DISTRIBUTION PANEL. |

| LEGEND: |
|---|
| (1) TO LIGHTING CONTROL PANEL. |




## KEY PLAN

NO SCALE

NORTH


LS&A Latimer Sommers & Associates, P.A.
CONSULTING ENGINEERS
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Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lsapa@lsapa.com


LSA PROJECT NO. 1904023

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
RICHARD R. BEARDMORE
NO. E-23000
PROFESSIONAL ENGINEER
4-3-20

ARCHITECT: TR.i ARCHITECTS
STRUCTURAL ENGINEER: BOB D CAMPBELL & COMPANY
CIVIL ENGINEER: RENAISSANCE INFRASTRUCTURE CONSULTING
GENERAL CONTRACTOR: BRINKMANN CONSTRUCTORS
MECHANICAL ENGINEER: LATIMER SOMMERS & ASSOCIATES
PLUMBING ENGINEER: LATIMER SOMMERS & ASSOCIATES
ELECTRICAL ENGINEER: LATIMER SOMMERS & ASSOCIATES

Pearl COMPANIES

# Summit at West Pryor


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TR.i Architects
9812 Manchester Road
St. Louis, Missouri 63119
T: 314-395-9750
F: 314-395-9751
www.traarchitects.com


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DATE: 09.12.19

REVISIONS

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|---|---|
| 1 REVISION 1 | 12.20.19 |
| 3 REVISION 3 | 04.03.20 |

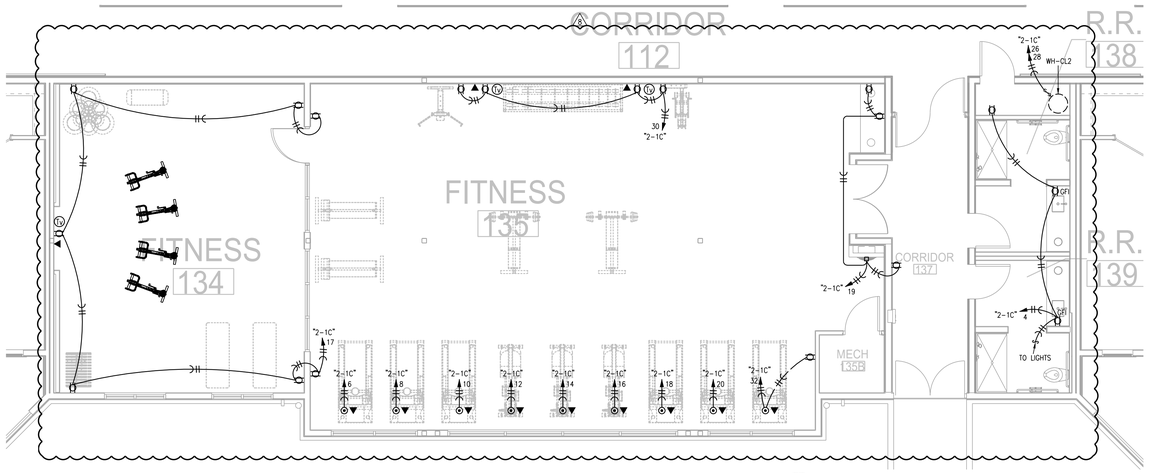
DWG BY: RRB

TR.i PROJECT NO.: 18-046

SHEET NO.

# E104a

FIRST FLOOR PLAN - AREA D - LIGHTING

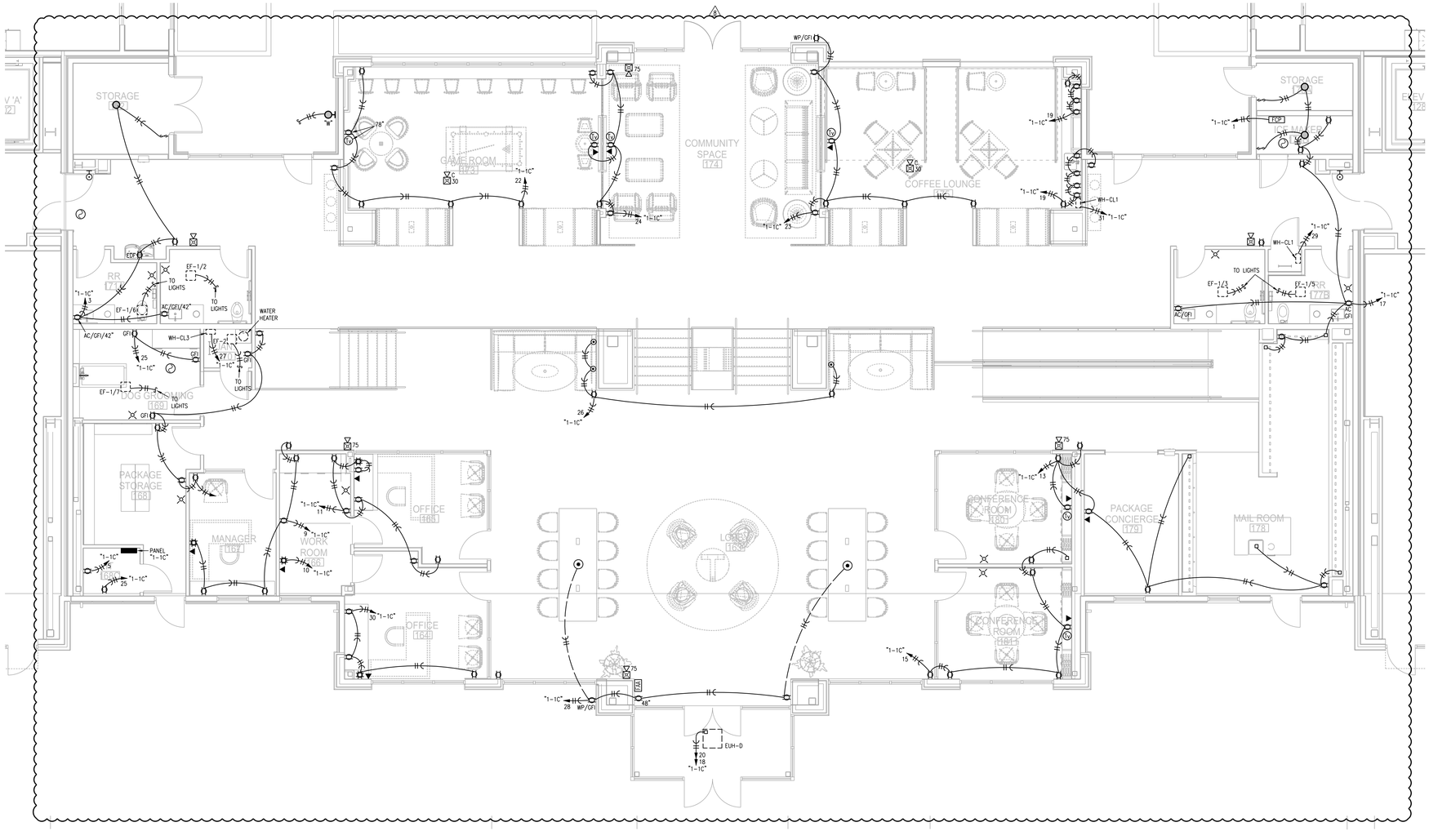



## 2 PARTIAL FIRST FLOOR PLAN - AREA D

3/16"=1'-0"

LIGHTING

NORTH




## 1 FIRST FLOOR PLAN - AREA C

3/16"=1'-0"

ELECTRICAL

NORTH

NOTES:

1. ALL ⊗ ARE TYPE "A" UNLESS NOTED OTHERWISE.
2. ALL STAIR LIGHTS ARE TYPE "L1" UNLESS NOTED OTHERWISE.
3. ALL ⊗ ARE TYPE "X1" UNLESS NOTED OTHERWISE.
4. ALL ⊗ ARE TYPE "X2" UNLESS NOTED OTHERWISE.
5. ALL ⊗ ARE TYPE "X5" UNLESS NOTED OTHERWISE.
6. CONNECT FIRE/SMOKE DAMPERS SHOWN ON MECHANICAL PLANS TO 120V. AND FIRE ALARM RELAY TO SHUT UPON SMOKE DETECTION IN CORRIDORS.
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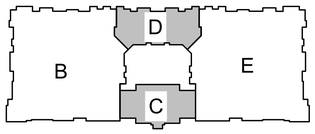
11. EXTERIOR LIGHTING TO BE ROUTED THRU PHOTOCELL.
12. "DP-1" DENOTES DISTRIBUTION PANEL.

LEGEND:

(1) TO LIGHTING CONTROL PANEL.




## KEY PLAN

NO SCALE

NORTH


LS&A
Latimer Sommers & Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lsapa@lsapa.com


LSA PROJECT NO. 1904023

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER
4-3-20

ARCHITECT: TR.i ARCHITECTS
STRUCTURAL ENGINEER: BOB D CAMPBELL & COMPANY
CIVIL ENGINEER: RENAISSANCE INFRASTRUCTURE CONSULTING
GENERAL CONTRACTOR: BRINKMANN CONSTRUCTORS
MECHANICAL ENGINEER: LATIMER SOMMERS & ASSOCIATES
PLUMBING ENGINEER: LATIMER SOMMERS & ASSOCIATES
ELECTRICAL ENGINEER: LATIMER SOMMERS & ASSOCIATES

Pearl COMPANIES

# Summit at West Pryor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TR.i Architects
9812 Manchester Road
St. Louis, Missouri 63119
T: 314-395-9750
F: 314-395-9751
www.triarchitects.com

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DATE: 09.12.19

REVISIONS

| | |
|---|---|
| 1 REVISION 1 | 12.20.19 |
| 3 REVISION 3 | 04.03.20 |

DWG BY: RRB

TR.i PROJECT NO.: 18-046

SHEET NO.

E104b

FIRST FLOOR PLAN - AREA D - LIGHTING

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER
4-3-20

| | |
|---|---|
| TR.i ARCHITECTS | ARCHITECT |
| BOB D CAMPBELL & COMPANY | STRUCTURAL ENGINEER |
| RENAISSANCE INFRASTRUCTURE CONSULTING | CIVIL ENGINEER |
| BRINKMANN CONSTRUCTORS | GENERAL CONTRACTOR |
| LATIMER SOMMERS & ASSOCIATES | MECHANICAL ENGINEER |
| LATIMER SOMMERS & ASSOCIATES | PLUMBING ENGINEER |
| LATIMER SOMMERS & ASSOCIATES | ELECTRICAL ENGINEER |

Pearl COMPANIES

# Summit at West Pryor

NOTES:

1. ALL ⊙ ARE TYPE "A" UNLESS NOTED OTHERWISE.
2. ALL STAIR LIGHTS ARE TYPE "L1" UNLESS NOTED OTHERWISE.
3. ALL ⊙ ARE TYPE "X1" UNLESS NOTED OTHERWISE.
4. ALL ⊙ ARE TYPE "X2" UNLESS NOTED OTHERWISE.
5. ALL ⊙ ARE TYPE "X5" UNLESS NOTED OTHERWISE.
6. CONNECT FIRE/SMOKE DAMPERS SHOWN ON MECHANICAL PLANS TO 120V. AND FIRE ALARM RELAY TO SHUT UPON SMOKE DETECTION IN CORRIDORS.
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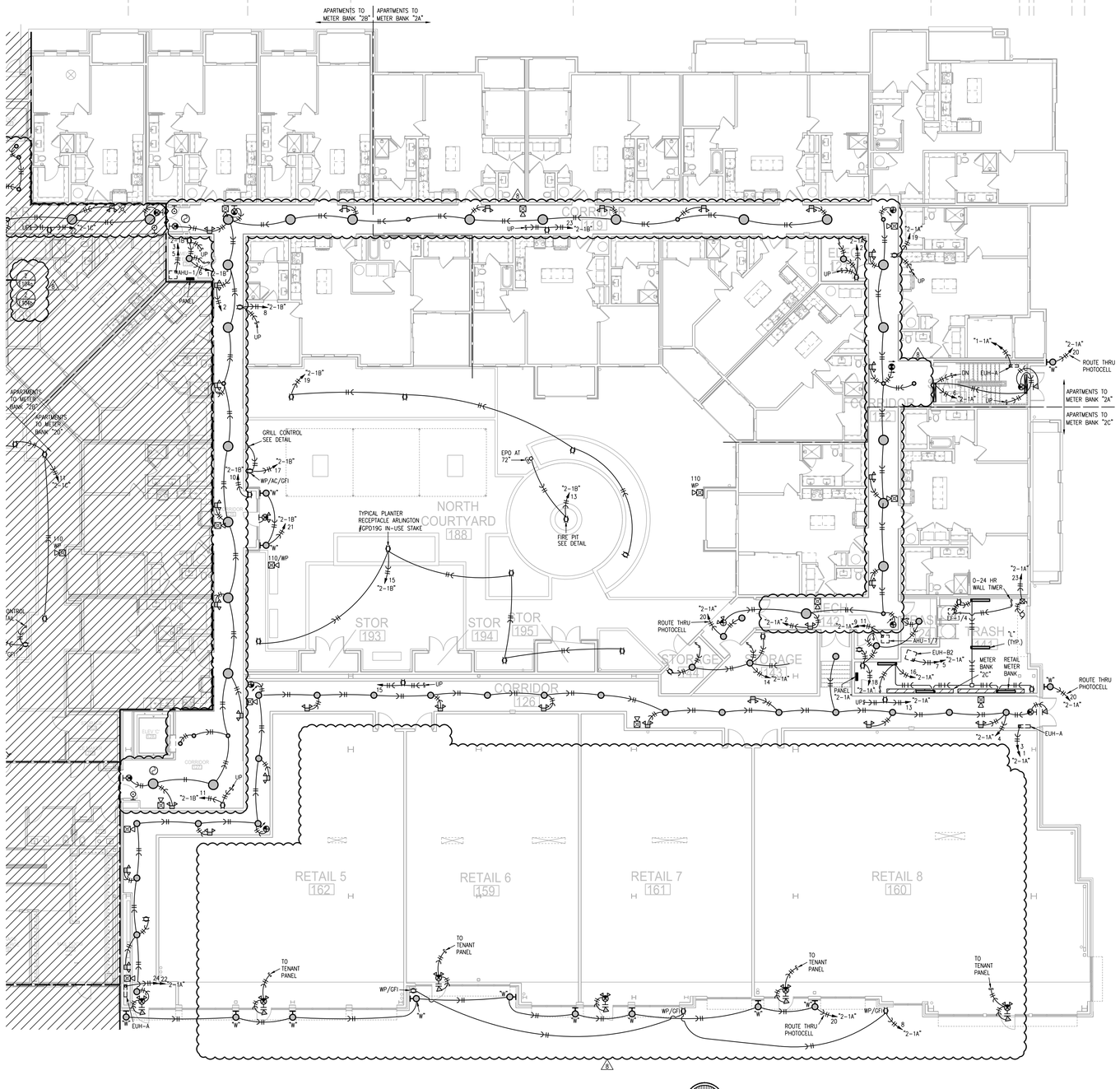
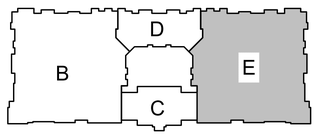
11. EXTERIOR LIGHTING TO BE ROUTED THRU PHOTOCELL.
12. "DP-1" DENOTES DISTRIBUTION PANEL.

LEGEND:

(1) TO LIGHTING CONTROL PANEL.




1 FIRST FLOOR PLAN - AREA E
3/32"=1'-0"
ELECTRICAL
NORTH




KEY PLAN
NO SCALE
NORTH

LS&A Latimer Sommers & Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
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LSA PROJECT NO. 1904023

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St. Louis, Missouri 63119
T: 314-395-9750
F: 314-395-9751
www.trarchitects.com


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DATE: 09.12.19

REVISIONS

| | | |
|---|---|---|
| 1 | PERMIT COMMENTS | 09.06.19 |
| 2 | REVISION 1 | 12.20.19 |
| 3 | REVISION 3 | 04.03.20 |

DWG BY RRB

TR.i PROJECT NO. 18-046

SHEET NO.

E105

FIRST FLOOR PLAN - AREA E - ELECTRICAL

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER
4-3-20

NOTES:

1. ALL ⊙ ARE TYPE "A" UNLESS NOTED OTHERWISE.
2. ALL STAIR LIGHTS ARE TYPE "L1" UNLESS NOTED OTHERWISE.
3. ALL ⊗ ARE TYPE "X1" UNLESS NOTED OTHERWISE.
4. ALL ⊗ ARE TYPE "X2" UNLESS NOTED OTHERWISE.
5. ALL ⊗ ARE TYPE "X5" UNLESS NOTED OTHERWISE.
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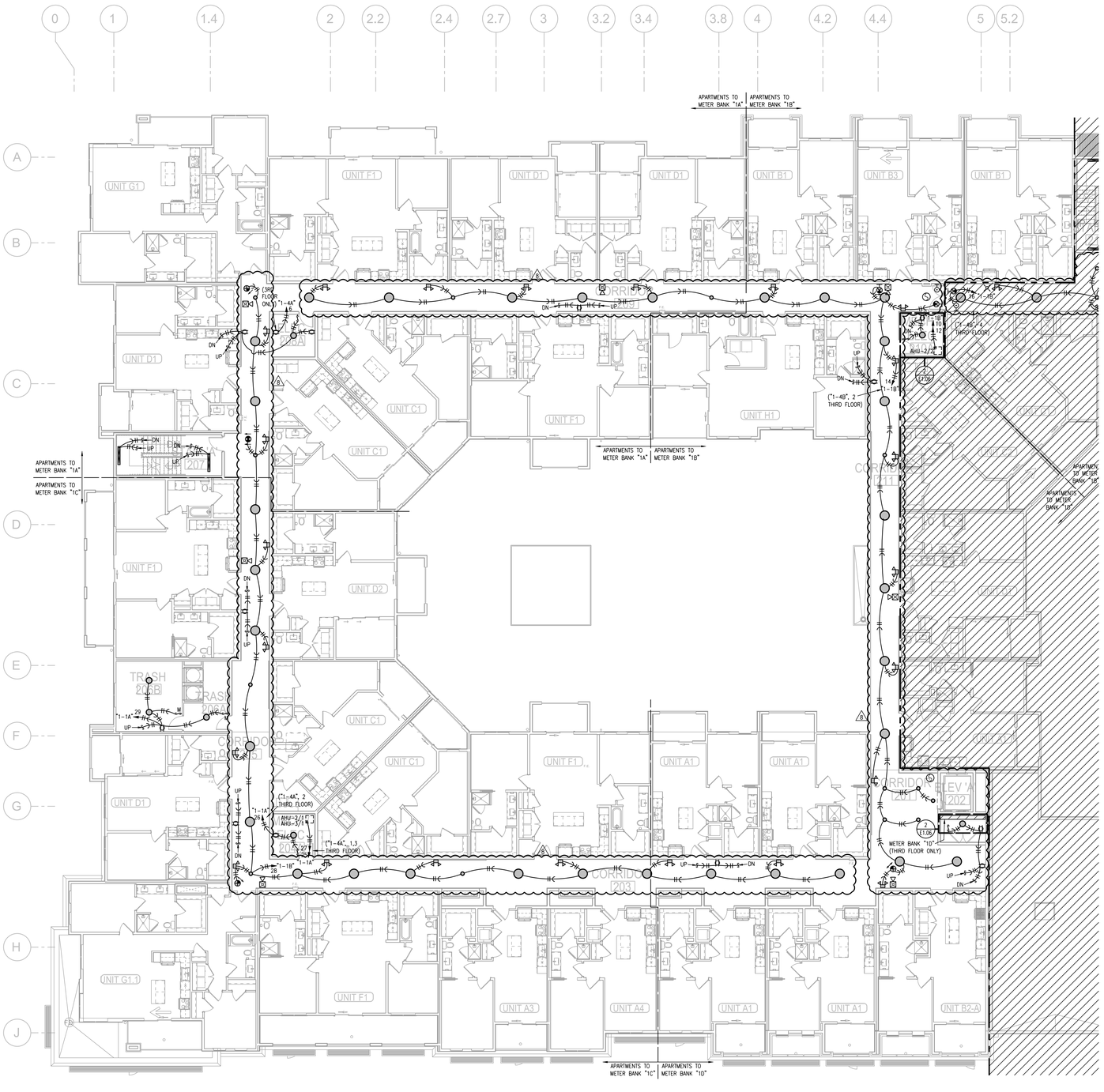
12. "DP-1" DENOTES DISTRIBUTION PANEL.

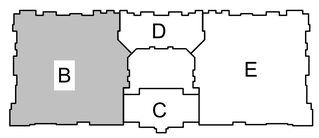
LEGEND:

(1) TO LIGHTING CONTROL PANEL.




1 **SECOND FLOOR PLAN - AREA B**
3/32"=1'-0" (THIRD FLOOR SIMILAR) ELECTRICAL
NORTH

2 **PARTIAL THIRD FLOOR PLANS**
3/32"=1'-0" ELECTRICAL




**KEY PLAN**
NO SCALE
NORTH

ARCHITECT: TR,i ARCHITECTS
STRUCTURAL ENGINEER: BOB D CAMPBELL & COMPANY
CIVIL ENGINEER: RENAISSANCE INFRASTRUCTURE CONSULTING
GENERAL CONTRACTOR: BRINKMANN CONSTRUCTORS
MECHANICAL ENGINEER: LATIMER SOMMERS & ASSOCIATES
PLUMBING ENGINEER: LATIMER SOMMERS & ASSOCIATES
ELECTRICAL ENGINEER: LATIMER SOMMERS & ASSOCIATES

Pearl COMPANIES

# Summit at West Pryor

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DATE: 09.12.19

REVISIONS

| | | |
|---|---|---|
| 1 | PERMIT COMMENTS | 09.06.19 |
| 2 | REVISION 3 | 04.03.20 |

DWG BY: RRB
TR,i PROJECT NO.: 18-046
SHEET NO.: E106
SECOND FLOOR PLAN - AREA B - ELECTRICAL


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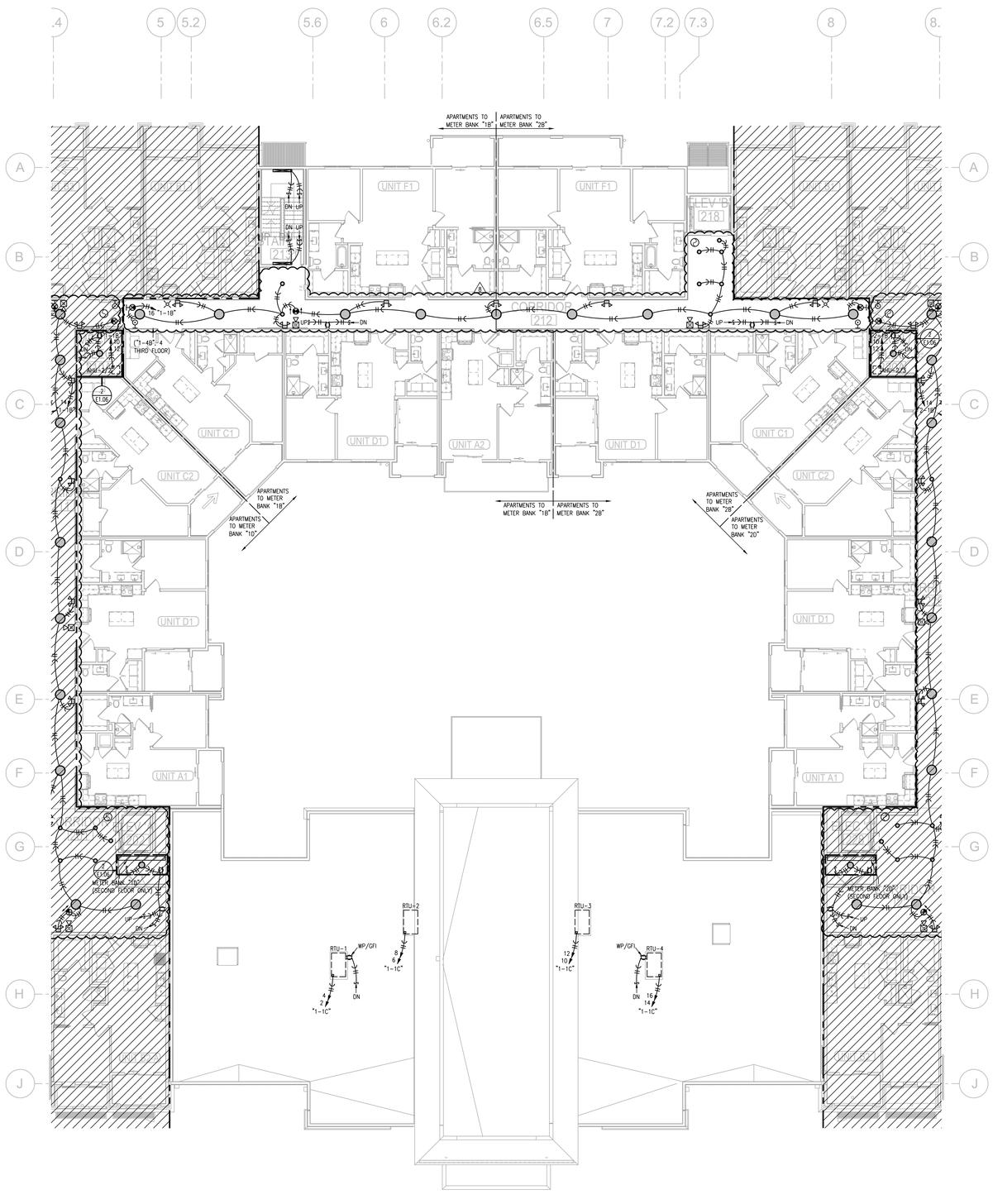
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lsapa@lsapa.com


LSA PROJECT NO. 1904023




1 **SECOND FLOOR PLAN - AREA C/D**
3/32"=1'-0" (THIRD FLOOR SIMILAR) ELECTRICAL

NORTH

NOTES:

1. ALL ⊙ ARE TYPE "A" UNLESS NOTED OTHERWISE.
2. ALL STAIR LIGHTS ARE TYPE "L1" UNLESS NOTED OTHERWISE.
3. ALL ⊗ ARE TYPE "X1" UNLESS NOTED OTHERWISE.
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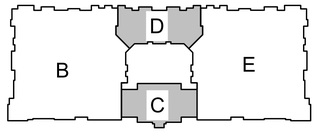
12. "DP-1" DENOTES DISTRIBUTION PANEL.

LEGEND:

(1) TO LIGHTING CONTROL PANEL.




**KEY PLAN**
NO SCALE

NORTH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CONSULTING ENGINEERS
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LSA PROJECT NO. 1904023

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER
4-3-20

ARCHITECT: TR;i ARCHITECTS
STRUCTURAL ENGINEER: BOB D CAMPBELL & COMPANY
CIVIL ENGINEER: RENAISSANCE INFRASTRUCTURE CONSULTING
GENERAL CONTRACTOR: BRINKMANN CONSTRUCTORS
MECHANICAL ENGINEER: LATIMER SOMMERS & ASSOCIATES
PLUMBING ENGINEER: LATIMER SOMMERS & ASSOCIATES
ELECTRICAL ENGINEER: LATIMER SOMMERS & ASSOCIATES

Pearl COMPANIES

# Summit at West Pryor

TR;i ARCHITECTS


TR;i Architects
9812 Manchester Road
St. Louis, Missouri 63119
T: 314-395-9750
F: 314-395-9751
www.traiarchitects.com

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**DATE:** 09.12.19

**REVISIONS**

| | | |
|---|---|---|
| 1 | PERMIT COMMENTS | 09.06.19 |
| 2 | REVISION 3 | 04.03.20 |

**DWG BY** RRB

**TR;i PROJECT NO.** 18-046

**SHEET NO.**

E107

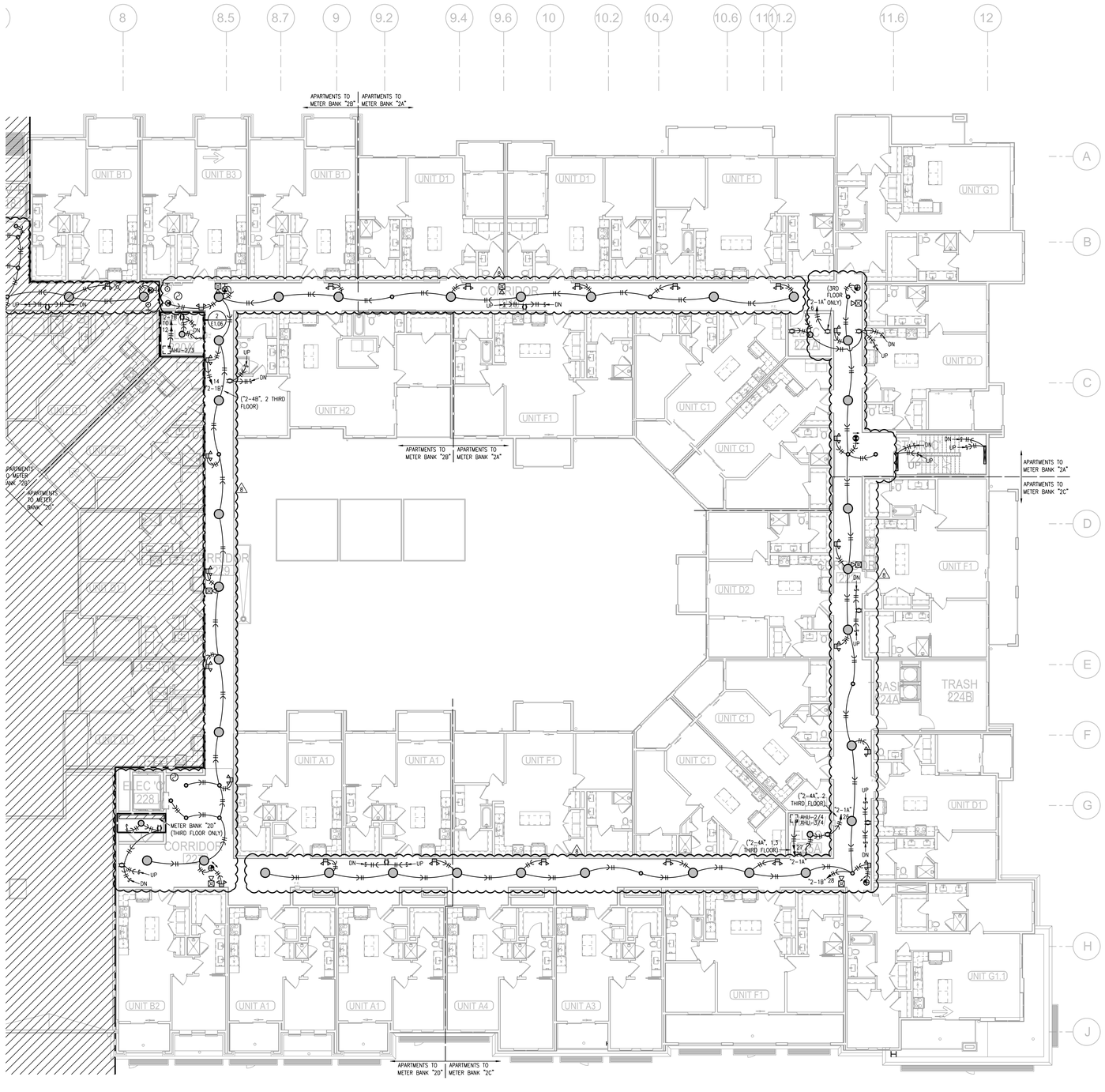
**SECOND FLOOR PLAN - AREA C/D - ELECTRICAL**

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER
4-3-20

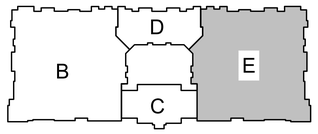
| NOTES: |
|---|
| 1. ALL ⊙ ARE TYPE "A" UNLESS NOTED OTHERWISE. |
| 2. ALL STAIR LIGHTS ARE TYPE "L1" UNLESS NOTED OTHERWISE. |
| 3. ALL ⊙ ARE TYPE "X1" UNLESS NOTED OTHERWISE. |
| 4. ALL ⊙ ARE TYPE "X2" UNLESS NOTED OTHERWISE. |
| 5. ALL ⊙ ARE TYPE "X5" UNLESS NOTED OTHERWISE. |
| 6. CONNECT FIRE/SMOKE DAMPERS SHOWN ON MECHANICAL PLANS TO 120V. AND FIRE ALARM RELAY TO SHUT UPON SMOKE DETECTION IN CORRIDORS. |
| 7. SEE UNIT PLANS FOR FURTHER WORK. |
| 8. LIGHTS AT APT. ENTRY DOORS CONNECT TO APT. HOT CIRCUIT. |
| 9. ALL AHU'S HAVE AUTO DAMPER/THERMOSTAT SYSTEM TO WIRE. SEE HVAC PLANS. |
| 10. EXIT SIGNS SHALL BE READILY VISIBLE TO OCCUPANTS. |
| 11. EXTERIOR LIGHTING TO BE ROUTED THRU PHOTOCELL. |
| 12. "DP-1" DENOTES DISTRIBUTION PANEL. |

| LEGEND: |
|---|
| (1) TO LIGHTING CONTROL PANEL. |




1 **SECOND FLOOR PLAN - AREA E**
3/32"=1'-0" (THIRD FLOOR SIMILAR) ELECTRICAL
NORTH

2 **PARTIAL THIRD FLOOR PLANS**
3/32"=1'-0" ELECTRICAL




**KEY PLAN**
NO SCALE
NORTH

LS&A Latimer Sommers & Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lsapa@lsapa.com
LSA PROJECT NO. 1904023

ARCHITECT: TR.i ARCHITECTS
STRUCTURAL ENGINEER: BOB D CAMPBELL & COMPANY
CIVIL ENGINEER: RENAISSANCE INFRASTRUCTURE CONSULTING
GENERAL CONTRACTOR: BRINKMANN CONSTRUCTORS
MECHANICAL ENGINEER: LATIMER SOMMERS & ASSOCIATES
PLUMBING ENGINEER: LATIMER SOMMERS & ASSOCIATES
ELECTRICAL ENGINEER: LATIMER SOMMERS & ASSOCIATES

Pearl COMPANIES

# Summit at West Pryor

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**REVISIONS**

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|---|---|---|
| 1 | PERMIT COMMENTS | 09.06.19 |
| 2 | REVISION 3 | 04.03.20 |

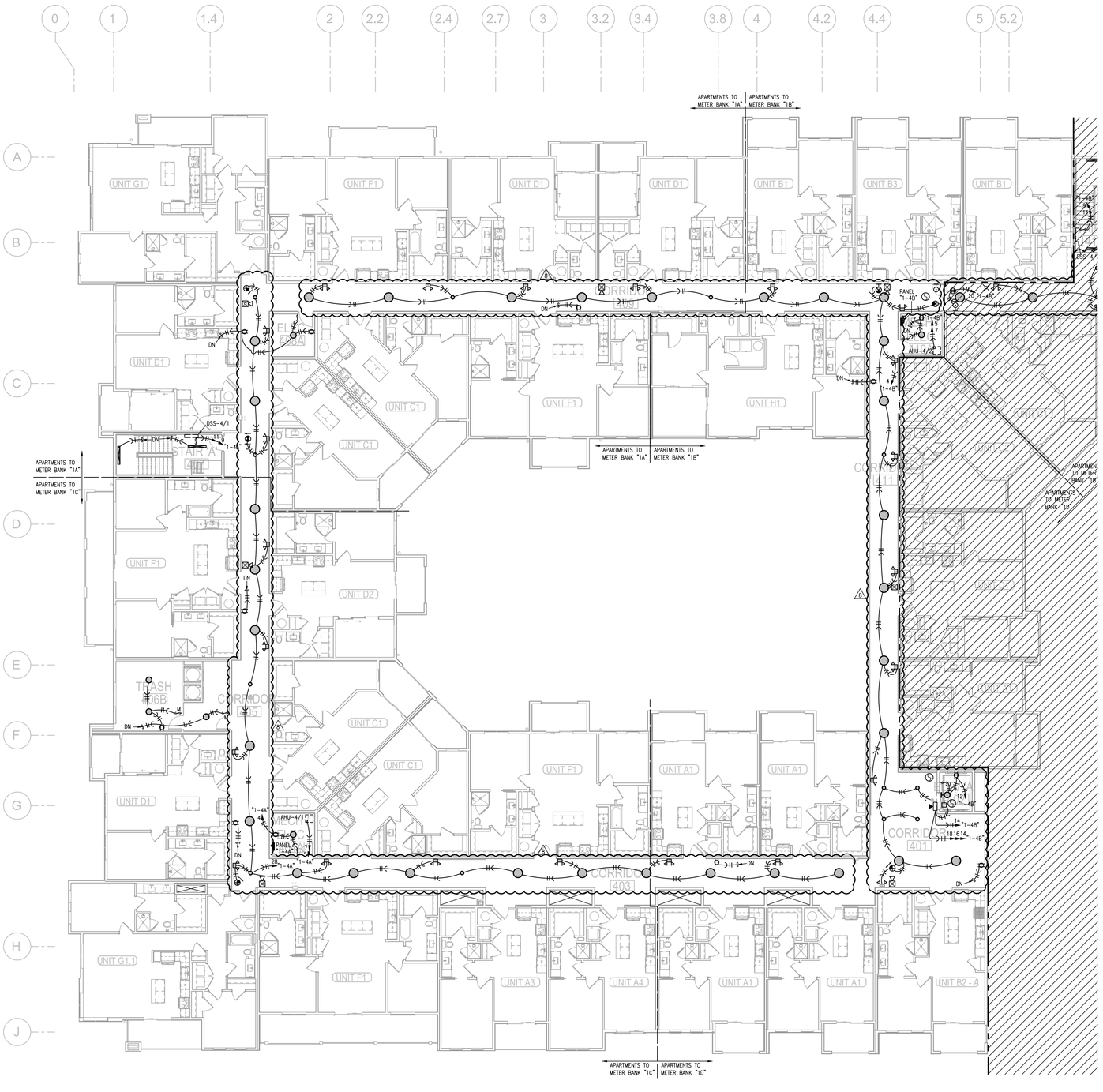
**DWG BY** RRB

**TR.i PROJECT NO.** 18-046

**SHEET NO.**

E108

**SECOND FLOOR PLAN - AREA E - ELECTRICAL**




1 **FOURTH FLOOR PLAN - AREA B**
3/32"=1'-0"
ELECTRICAL
NORTH

NOTES:

1. ALL ⊗ ARE TYPE "A" UNLESS NOTED OTHERWISE.
2. ALL STAIR LIGHTS ARE TYPE "L1" UNLESS NOTED OTHERWISE.
3. ALL ⊗ ARE TYPE "X1" UNLESS NOTED OTHERWISE.
4. ALL ⊗ ARE TYPE "X2" UNLESS NOTED OTHERWISE.
5. ALL ⊗ ARE TYPE "X5" UNLESS NOTED OTHERWISE.
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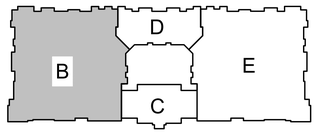
9. ALL AHU'S HAVE AUTO DAMPER/THERMOSTAT SYSTEM TO WIRE. SEE HVAC PLANS.
10. EXIT SIGNS SHALL BE READILY VISIBLE TO OCCUPANTS.
11. EXTERIOR LIGHTING TO BE ROUTED THRU PHOTOCELL.
12. "DP-1" DENOTES DISTRIBUTION PANEL.

LEGEND:

(1) TO LIGHTING CONTROL PANEL.




**KEY PLAN**
NO SCALE
NORTH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Topeka, Kansas 66614-3974
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LSA PROJECT NO. 1904023

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AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER
4-3-20

ARCHITECT — TR;i ARCHITECTS
STRUCTURAL ENGINEER — BOB D CAMPBELL & COMPANY
CIVIL ENGINEER — RENAISSANCE INFRASTRUCTURE CONSULTING
GENERAL CONTRACTOR — BRINKMANN CONSTRUCTORS
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Pearl COMPANIES

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**DATE:** 09.12.19

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|---|---|---|
| 1 | PERMIT COMMENTS | 09.06.19 |
| 2 | REVISION 3 | 04.03.20 |

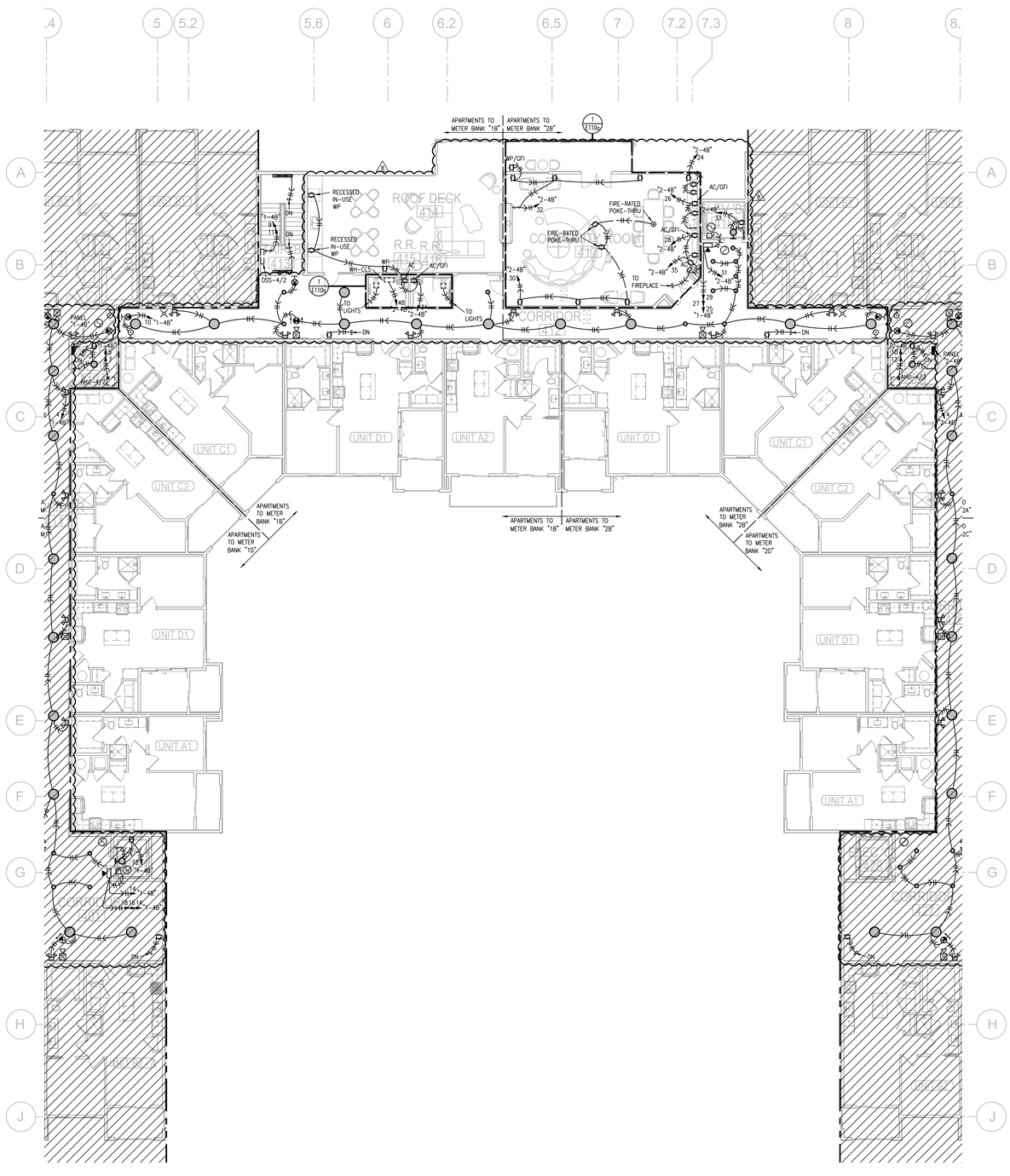
**DWG BY** RRB

**TR;i PROJECT NO.** 18-046

**SHEET NO.**

E109

**FOURTH FLOOR PLAN - AREA B - ELECTRICAL**




1 **FOURTH FLOOR PLAN - AREA C/D**
3/32"=1'-0"
ELECTRICAL

NORTH

NOTES:

1. ALL ⊗ ARE TYPE "A" UNLESS NOTED OTHERWISE.
2. ALL STAIR LIGHTS ARE TYPE "L1" UNLESS NOTED OTHERWISE.
3. ALL ⊗ ARE TYPE "X1" UNLESS NOTED OTHERWISE.
4. ALL ⊗ ARE TYPE "X2" UNLESS NOTED OTHERWISE.
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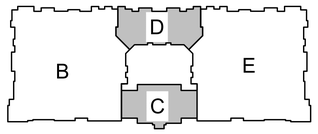
12. "DP-1" DENOTES DISTRIBUTION PANEL.

LEGEND:

(1) TO LIGHTING CONTROL PANEL.




**KEY PLAN**
NO SCALE

NORTH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Email: lsapa@lsapa.com


LSA PROJECT NO. 1904023

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER
4-3-20

ARCHITECT — TR;i ARCHITECTS
STRUCTURAL ENGINEER — BOB D CAMPBELL & COMPANY
CIVIL ENGINEER — RENAISSANCE INFRASTRUCTURE CONSULTING
GENERAL CONTRACTOR — BRINKMANN CONSTRUCTORS
MECHANICAL ENGINEER — LATIMER SOMMERS & ASSOCIATES
PLUMBING ENGINEER — LATIMER SOMMERS & ASSOCIATES
ELECTRICAL ENGINEER — LATIMER SOMMERS & ASSOCIATES

Pearl COMPANIES

# Summit at West Pryor

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**DATE:** 09.12.19

**REVISIONS**

| | | |
|---|---|---|
| 1 | PERMIT COMMENTS | 09.06.19 |
| 2 | REVISION 1 | 12.20.19 |
| 3 | REVISION 3 | 04.03.20 |

**DWG BY** RRB

**TR;i PROJECT NO.** 18-046

**SHEET NO.**

E110

**FOURTH FLOOR PLAN - AREA C/D - ELECTRICAL**

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/13/2020

NOTES:

1. ALL ⊗ ARE TYPE "A" UNLESS NOTED OTHERWISE.
2. ALL STAIR LIGHTS ARE TYPE "L1" UNLESS NOTED OTHERWISE.
3. ALL ⊗ ARE TYPE "X1" UNLESS NOTED OTHERWISE.
4. ALL ⊗ ARE TYPE "X2" UNLESS NOTED OTHERWISE.
5. ALL ⊗ ARE TYPE "X5" UNLESS NOTED OTHERWISE.
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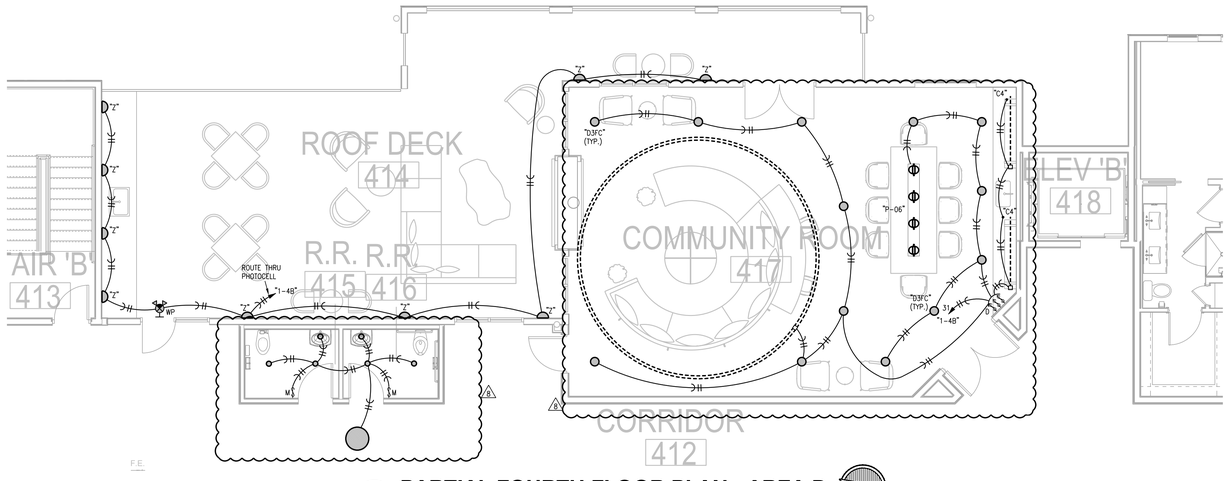
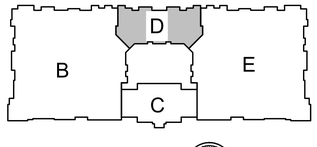
10. EXIT SIGNS SHALL BE READILY VISIBLE TO OCCUPANTS.
11. EXTERIOR LIGHTING TO BE ROUTED THRU PHOTOCELL.
12. "DP-1" DENOTES DISTRIBUTION PANEL.

LEGEND:

(1) TO LIGHTING CONTROL PANEL.




1 **PARTIAL FOURTH FLOOR PLAN - AREA D**
3/16"=1'-0"
LIGHTING
NORTH




**KEY PLAN**
NO SCALE
NORTH

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Topeka, Kansas 66614-3974
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FAX: (785) 233-0647
Email: lsapa@lsapa.com
LSA PROJECT NO. 1904023

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER
4-3-20

| | |
|---|---|
| TR,i ARCHITECTS | ARCHITECT |
| BOB D CAMPBELL & COMPANY | STRUCTURAL ENGINEER |
| RENAISSANCE INFRASTRUCTURE CONSULTING | CIVIL ENGINEER |
| BRINKMANN CONSTRUCTORS | GENERAL CONTRACTOR |
| LATIMER SOMMERS & ASSOCIATES | MECHANICAL ENGINEER |
| LATIMER SOMMERS & ASSOCIATES | PLUMBING ENGINEER |
| LATIMER SOMMERS & ASSOCIATES | ELECTRICAL ENGINEER |

Pearl COMPANIES

# Summit at West Pryor

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www.traiarchitects.com

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**DATE:** 09.12.19

**REVISIONS** 2

| | | |
|---|---|---|
| 1 | REVISION 1 | 12.20.19 |
| 3 | REVISION 3 | 04.03.20 |

**DWG BY** RRB

**TR,i PROJECT NO.** 18-046

**SHEET NO.**

E110a

**PARTIAL FOURTH FLOOR PLAN - AREA C/D - LIGHTING**

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER
4-3-20

| NOTES: |
|---|
| 1. ALL ⊗ ARE TYPE "A" UNLESS NOTED OTHERWISE. |
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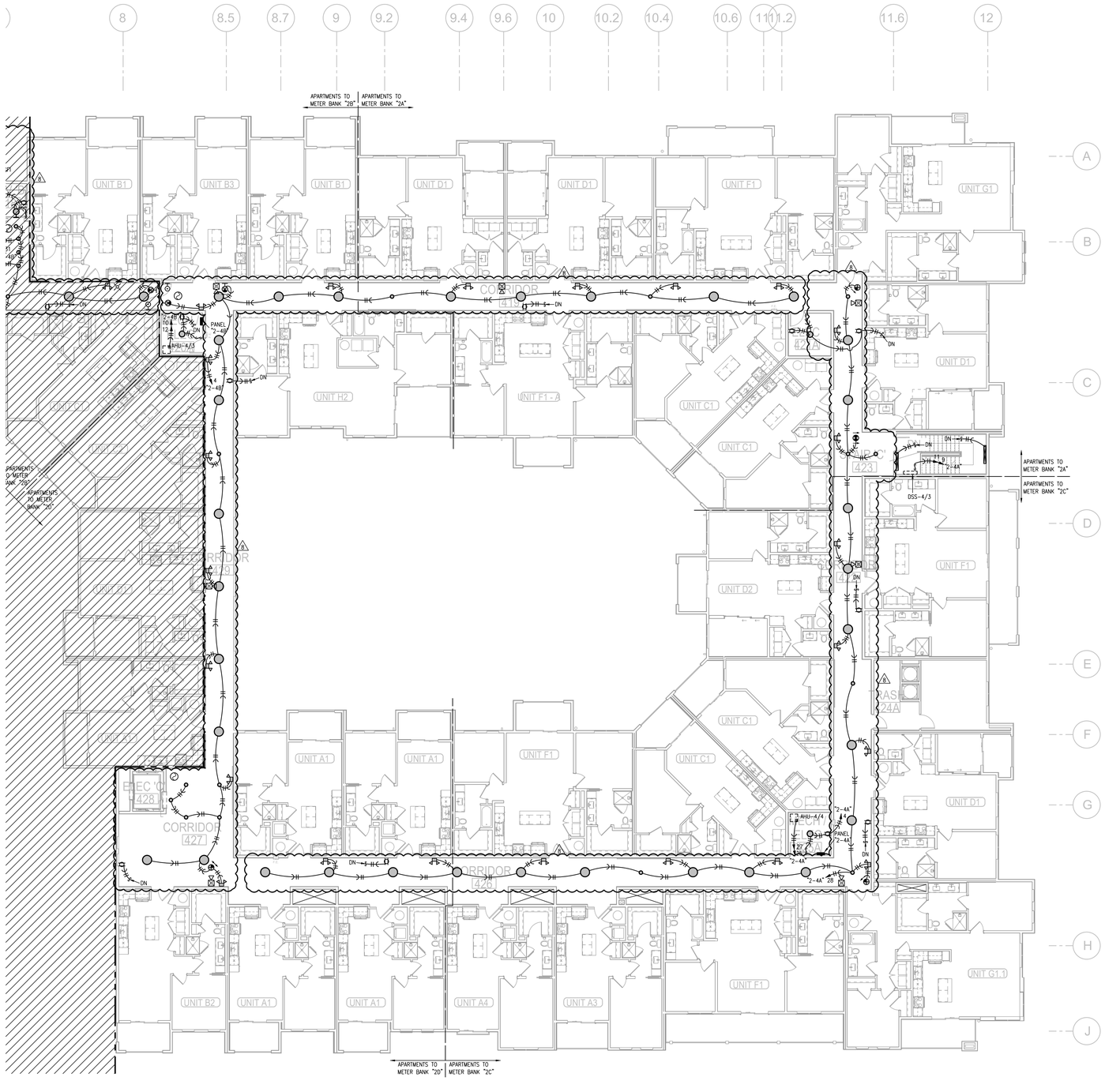
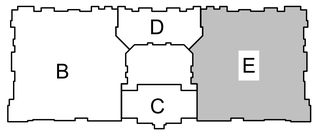
| 12. "DP-1" DENOTES DISTRIBUTION PANEL. |

| LEGEND: |
|---|
| (1) TO LIGHTING CONTROL PANEL. |




1 **FOURTH FLOOR PLAN - AREA E**
3/32"=1'-0"
ELECTRICAL
NORTH




**KEY PLAN**
NO SCALE
NORTH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Email: lsapa@lsapa.com

LSA PROJECT NO. 1904023

ARCHITECT: TR.i ARCHITECTS
STRUCTURAL ENGINEER: BOB D CAMPBELL & COMPANY
CIVIL ENGINEER: RENAISSANCE INFRASTRUCTURE CONSULTING
GENERAL CONTRACTOR: BRINKMANN CONSTRUCTORS
MECHANICAL ENGINEER: LATIMER SOMMERS & ASSOCIATES
PLUMBING ENGINEER: LATIMER SOMMERS & ASSOCIATES
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Pearl COMPANIES

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www.tracrchitects.com

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**DATE:** 09.12.19

**REVISIONS**

| | | |
|---|---|---|
| 1 | PERMIT COMMENTS | 09.06.19 |
| 2 | REVISION 3 | 04.03.20 |

**DWG BY** RRB

**TR.i PROJECT NO.** 18-046

**SHEET NO.**

E111

**FOURTH FLOOR PLAN - AREA E - ELECTRICAL**

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
09/13/2020

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12. DP-1 DENOTES DISTRIBUTION PANEL.

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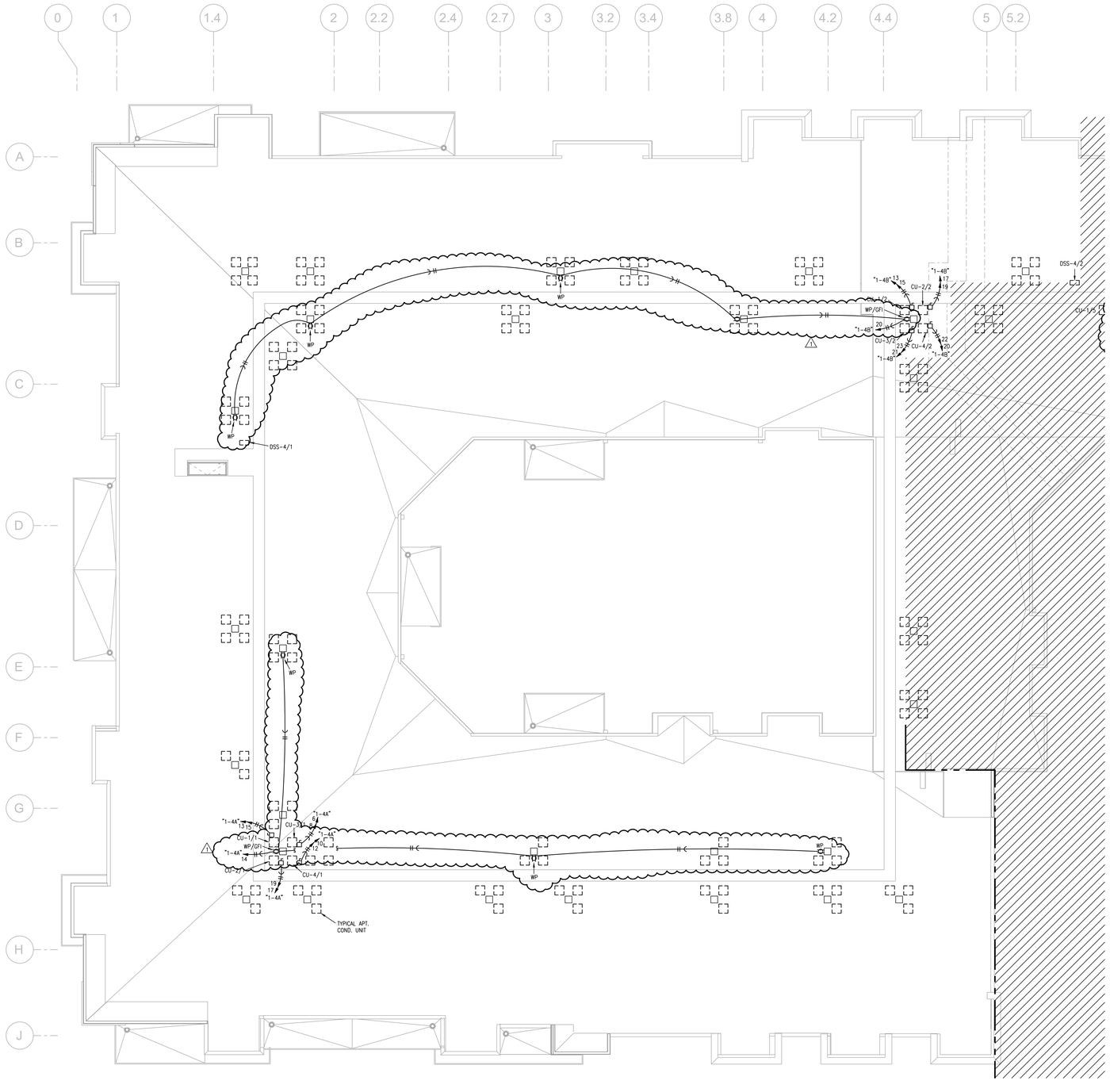
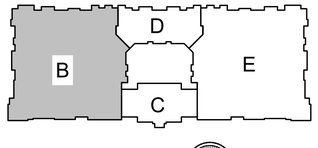



1 **ROOF PLAN - AREA B**
3/32"=1'-0" ELECTRICAL

NORTH




**KEY PLAN**
NO SCALE

NORTH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LSA PROJECT NO. 1904023

STATE OF MISSOURI
RICHARD R. BEARCMORE
NUMBER E-23000
PROFESSIONAL ENGINEER
9-6-19

| | |
|---|---|
| ARCHITECT | TR,i ARCHITECTS |
| STRUCTURAL ENGINEER | BOB D CAMPBELL & COMPANY |
| CIVIL ENGINEER | RENAISSANCE INFRASTRUCTURE CONSULTING |
| GENERAL CONTRACTOR | BRINKMANN CONSTRUCTORS |
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**DATE:** 07.29.19

**REVISIONS**

| | | |
|---|---|---|
| 1 | PERMIT COMMENTS | 09.06.19 |

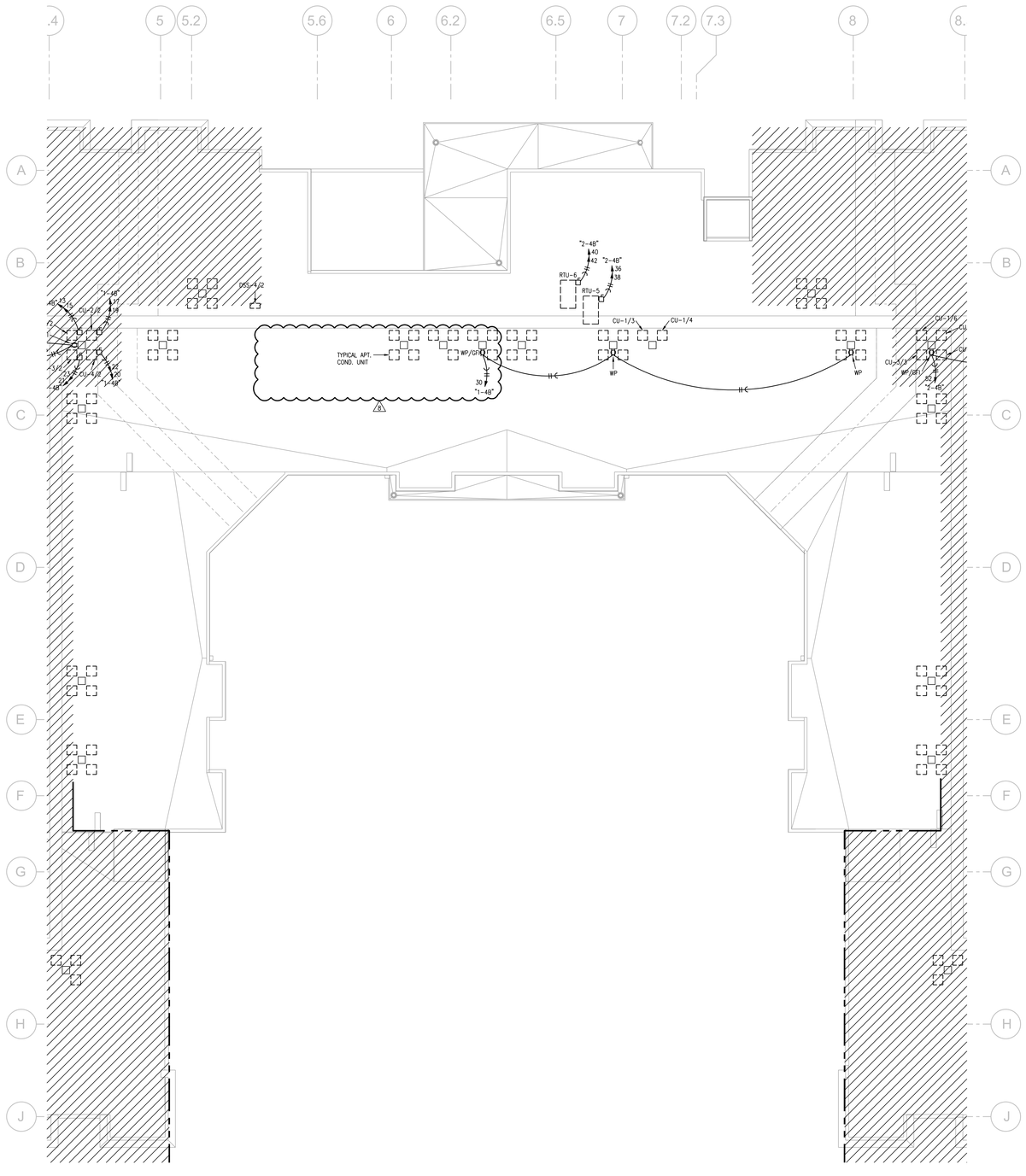
**DWG BY** RRB

**TR,i PROJECT NO.** 18-046

**SHEET NO.**

E112

**ROOF PLAN - AREA B - ELECTRICAL**




1 **ROOF PLAN - AREA D**
3/32"=1'-0" ELECTRICAL

NORTH

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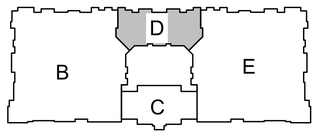


**KEY PLAN**
NO SCALE

NORTH


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3630 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lsapa@lsapa.com


LSA PROJECT NO. 1904023

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER
4-3-20

ARCHITECT: TR,i ARCHITECTS
STRUCTURAL ENGINEER: BOB D CAMPBELL & COMPANY
CIVIL ENGINEER: RENAISSANCE INFRASTRUCTURE CONSULTING
GENERAL CONTRACTOR: BRINKMANN CONSTRUCTORS
MECHANICAL ENGINEER: LATIMER SOMMERS & ASSOCIATES
PLUMBING ENGINEER: LATIMER SOMMERS & ASSOCIATES
ELECTRICAL ENGINEER: LATIMER SOMMERS & ASSOCIATES

Pearl COMPANIES

# Summit at West Pryor

TR,i ARCHITECTS


TR,i Architects
9812 Manchester Road
St. Louis, Missouri 63119
T: 314-395-9750
F: 314-395-9751
www.traarchitects.com


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**DATE:** 09.12.19

**REVISIONS** 2

| | | |
|---|---|---|
| 1 | PERMIT COMMENTS | 09.06.19 |
| 2 | REVISION 3 | 04.03.20 |

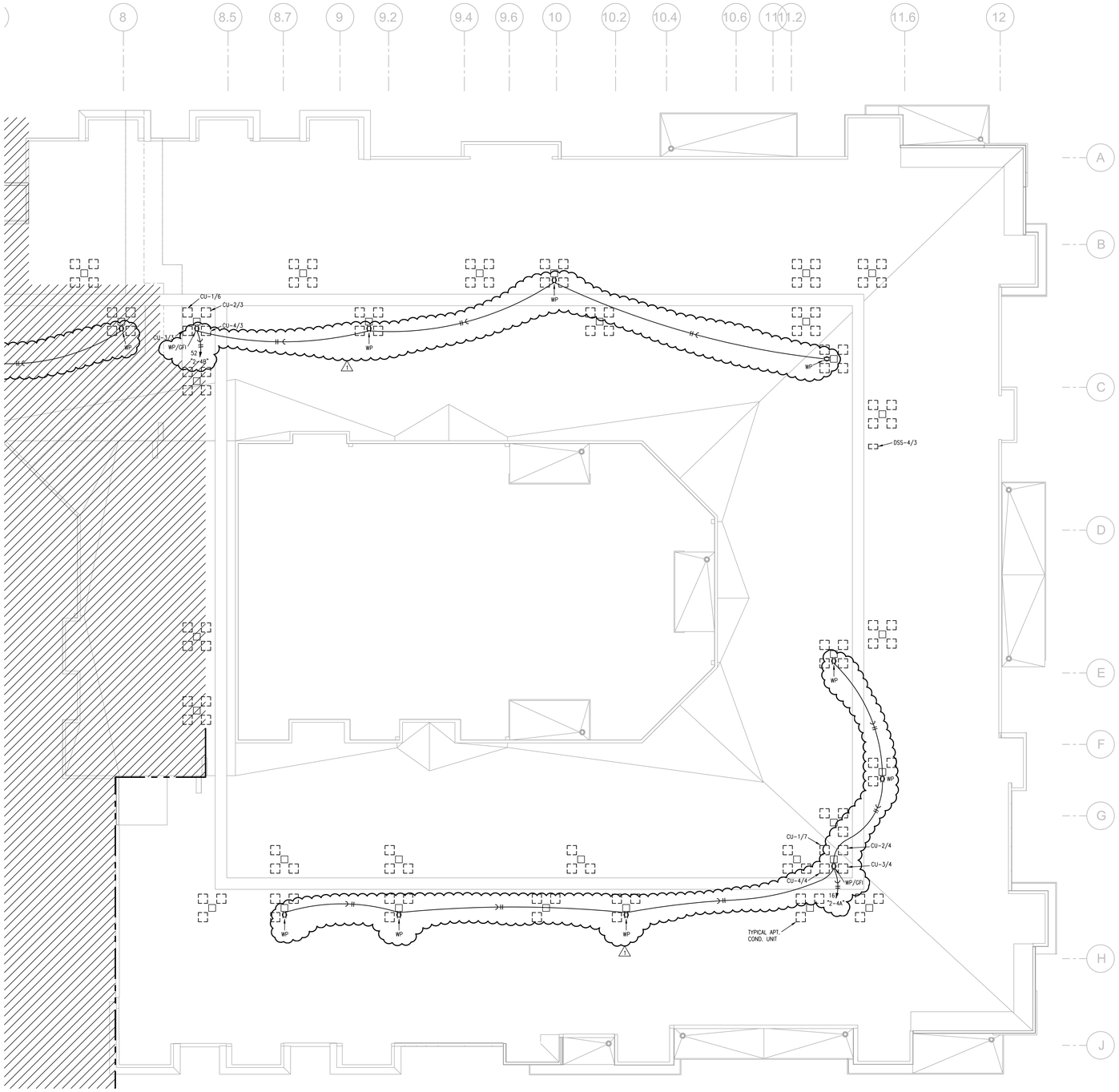
**DWG BY** RRB

**TR,i PROJECT NO.** 18-046

**SHEET NO.**

E113

**ROOF PLAN - AREA D - ELECTRICAL**



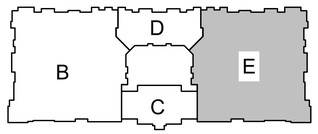

1 **ROOF PLAN - AREA E**
3/32"=1'-0" ELECTRICAL
NORTH

NOTES:

1. ALL ⊗ ARE TYPE "A" UNLESS NOTED OTHERWISE.
2. ALL STAIR LIGHTS ARE TYPE "L1" UNLESS NOTED OTHERWISE.
3. ALL ⊗ ARE TYPE "X1" UNLESS NOTED OTHERWISE.
4. ALL ⊗ ARE TYPE "X2" UNLESS NOTED OTHERWISE.
5. ALL ⊗ ARE TYPE "X5" UNLESS NOTED OTHERWISE.
6. CONNECT FIRE/SMOKE DAMPERS SHOWN ON MECHANICAL PLANS TO 120V. AND FIRE ALARM RELAY TO SHUT UPON SMOKE DETECTION IN CORRIDORS.
7. SEE UNIT PLANS FOR FURTHER WORK.
8. LIGHTS AT APT. ENTRY DOORS CONNECT TO APT. HOT CIRCUIT.
9. ALL AHU'S HAVE AUTO DAMPER/THERMOSTAT SYSTEM TO WIRE. SEE HVAC PLANS.
10. EXIT SIGNS SHALL BE READILY VISIBLE TO OCCUPANTS.
11. EXTERIOR LIGHTING TO BE ROUTED THRU PHOTOCELL.
12. "DP-1" DENOTES DISTRIBUTION PANEL.

LEGEND:

1 TO LIGHTING CONTROL PANEL.




**KEY PLAN**
NO SCALE
NORTH

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
08/13/2020

STATE OF MISSOURI
RICHARD R. BEARCMORE
NUMBER
PROFESSIONAL ENGINEER
9-6-19

ARCHITECT: TR,i ARCHITECTS
STRUCTURAL ENGINEER: BOB D CAMPBELL & COMPANY
CIVIL ENGINEER: RENAISSANCE INFRASTRUCTURE CONSULTING
GENERAL CONTRACTOR: BRINKMANN CONSTRUCTORS
MECHANICAL ENGINEER: LATIMER SOMMERS & ASSOCIATES
PLUMBING ENGINEER: LATIMER SOMMERS & ASSOCIATES
ELECTRICAL ENGINEER: LATIMER SOMMERS & ASSOCIATES

Pearl COMPANIES

# Summit at West Pryor

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St. Louis, Missouri 63119
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F: 314-395-9751
www.triarchitects.com
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DATE: 07.29.19

REVISIONS

| | | |
|---|---|---|
| 1 | PERMIT COMMENTS | 09.06.19 |

DWG BY: RRB
TR,i PROJECT NO.: 18-046
SHEET NO.: E114
ROOF PLAN - AREA E - ELECTRICAL

LS&A Latimer Sommers & Associates, P.A.
CONSULTING ENGINEERS
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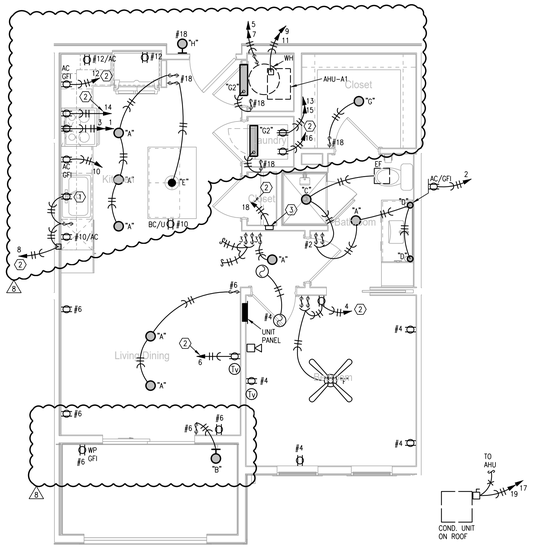
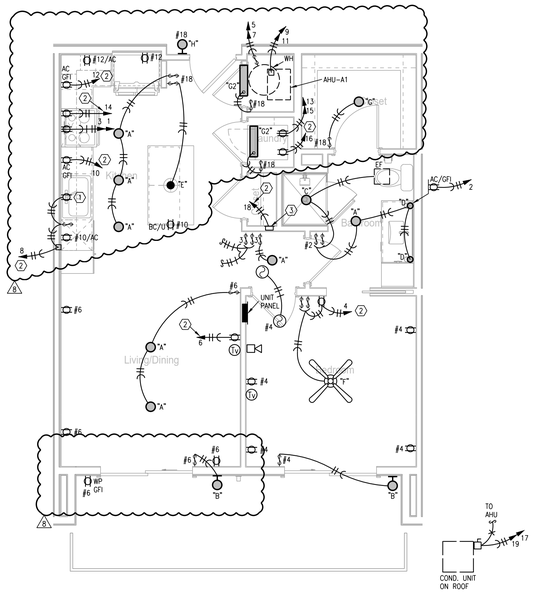
FAX: (785) 233-0647
Email: lsapa@lsapa.com
LSA PROJECT NO. 1904023



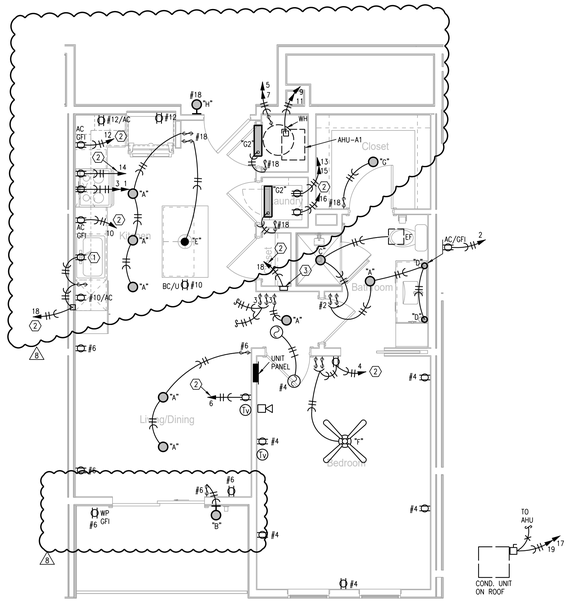

## 1 TYPICAL UNIT PLAN - A1

1/4"=1'-0" ELECTRICAL




## 2 TYPICAL UNIT PLAN - A2

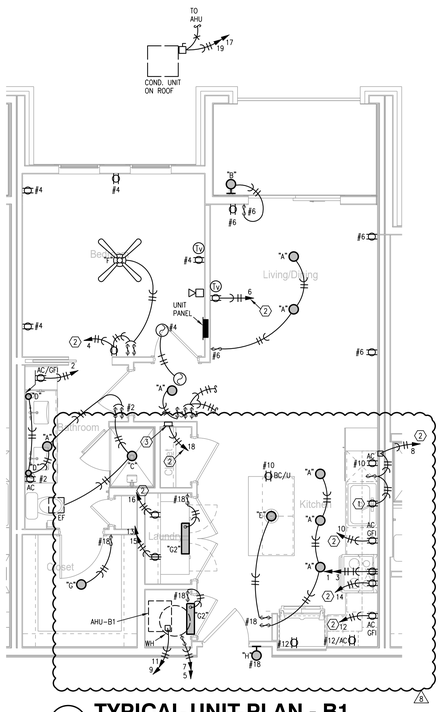
1/4"=1'-0" ELECTRICAL




## 3 TYPICAL UNIT PLAN - A3

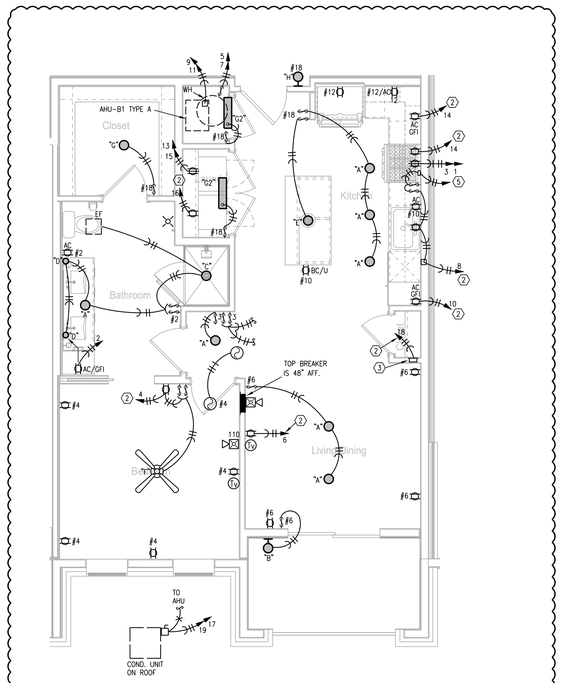
1/4"=1'-0" (UNIT A4 SIMILAR) ELECTRICAL

NOTE: SEE I.D. DRAWINGS FOR DIMENSIONED LIGHTING PLANS AND DETAILS.



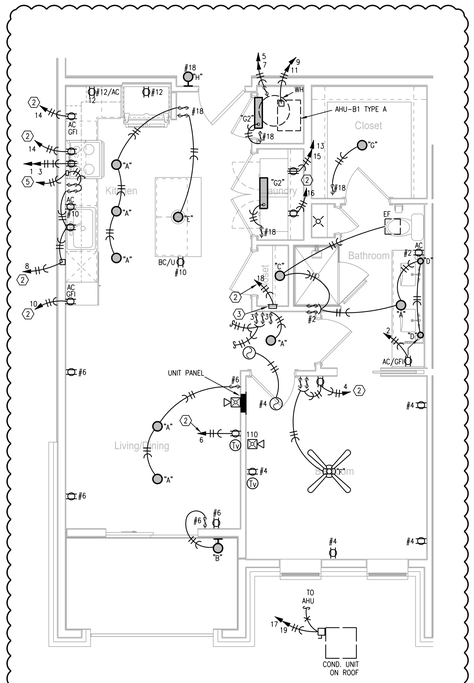

## 4 TYPICAL UNIT PLAN - B1

1/4"=1'-0" (UNIT B3 SIMILAR) ELECTRICAL




## 5 TYPICAL UNIT PLAN - B2 TYPE A

1/4"=1'-0" ELECTRICAL




## 6 TYPICAL UNIT PLAN - B2

1/4"=1'-0" ELECTRICAL

NOTES:

1. TYPE "J" FIXTURE IN HALLWAYS ARE UNSWITCHED. MOUNT AT 72"AFF, VERIFY WITH ARCHITECT.
2. CEILING FAN SWITCHES PROVIDED WITH FAN. CONTROL LIGHT AND FAN SEPARATELY. INTENDED FOR SINGLE GANG BOX.
3. CENTER "H" PENDANT LIGHTS OVER BASE BACK WALL AND CENTERED EQUALLY LEFT TO RIGHT OVER SINK. THESE ARE SEPARATELY SWITCHED.
4. GENERALLY CENTER LIGHT ON WINDOWS, DOOR, HALLWAYS, SINKS, OVER TUBS, ETC. VERIFY ALL LOCATIONS IN EACH UNIT DIMENSIONALLY WITH ARCHITECT, INTERIOR DESIGNER AND OWNER. MOUNT SWITCHES CLOSE TO DOORS OR WALL CORNERS.
5. THERMOSTATS HAVE LOW VOLTAGE WIRE BACK TO AHU. CONDENSING UNITS HAVE LOW VOLTAGE WIRE BACK TO AHU.
6. (C) = 120V. SMOKE/CO ALARM WITH BATTERY BACK-UP AND AUXILIARY CONTACT SO ALL SOUND TOGETHER.
7. ALL ARC-FAULT CIRCUIT BREAKERS SHALL BE COMPATIBLE WITH CEILING FANS, COMPACT AND STANDARD FLUORESCENT LAMPS/FIXTURES AND OTHER ELECTRONIC DEVICES.
8. PROVIDE PROTECTION AT ELECTRICAL BOXES AT RATED CEILING MEMBRANES PER IBC 712.4.1.2(2). BOXES TO BE LISTED FOR RATED MEMBRANES, NOT EXCEED 16 SQUARE INCHES, NOT COMBINE FOR MORE THAN 100 SQUARE INCHES IN 100 SQUARE FEET AND ANNULAR SPACE NOT EXCEED 1/8".
9. FIRE ALARM HORN/STROBE CIRCUITS SHALL BE SIZED TO ACCEPT BEDROOM HORN/STROBES IN FUTURE INCLUDING WIRING AND PANEL CAPACITY.
10. ALL RANGES SERVED BY (3) #8 & (1) #10 AND 50A. RECEPTACLE.
11. ALL WATER HEATERS SERVED BY (3) #10
12. ALL WASHERS AND REFRIGERATORS HAVE RECEPTACLES AT 48".
13. SEE HVAC SCHEDULE AND SHOP DRAWINGS FOR AHU AND HEAT PUMP CIRCUITS.
14. ALL DRYERS SERVED BY (4) #10 AND 30A. RECEPTACLE.
15. BELOW COUNTER RECEPTACLES AND PLATES SHALL MATCH THE BASE CABINETS WHERE THEY ARE MOUNTED (BROWN, WHITE, ETC.) VERIFY WITH ARCHITECT.
16. EXTERIOR RECEPTACLES SHALL BE ARLINGTON #DBVM1C RECESSED TYPE.

LEGEND:

1. SWITCHED RECEPTACLE FOR GARBAGE DISPOSER CONTINUE CIRCUIT TO DISHWASHER.
2. PROVIDE ARC-FAULT CIRCUIT BREAKER IN PANEL.
3. TELE/TV DEMARK FLUSH BOX. PROVIDE WITH DUPLEX OUTLET. PROVIDE 1" CONDUIT FROM BOX TO ABOVE CEILING AND OUT TO CEILING IN THE HALLWAY. SEE DETAILS.
4. SMOKE ALARM TO HAVE STROBES.
5. CONNECT RANGE HOOD TO TWO SWITCHES ABOVE COUNTER TO CONTROL LIGHT AND FAN.

ELECTRICAL SYMBOLS LEGEND;

- DUPLEX RECEPTACLE.
- 120/240V. RECEPTACLE. 30A. FOR DRYER, 50A. FOR RANGE.
- SW RECEPTACLE HALF SWITCHED.
- U USB CHARGING COMB. RECEPTACLE.
- ▼ DATA OUTLET.
- ▽ VOICE OUTLET.
- TV COMBINATION CATV/DATA OUTLET.
- AC ABOVE COUNTER
- BC BELOW COUNTER
- LOW FREQUENCY HORN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LSA PROJECT NO. 1904023


RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEES SUMMIT, MISSOURI
04/13/2020


STATE OF MISSOURI
RICHARD R. BRANDMEIER
NUMBER
PROFESSIONAL ENGINEER
4-3-20

| | |
|---|---|
| TR;i ARCHITECTS | ARCHITECT |
| BOB D CAMPBELL & COMPANY | STRUCTURAL ENGINEER |
| | CIVIL ENGINEER |
| RENAISSANCE INFRASTRUCTURE CONSULTING | GENERAL CONTRACTOR |
| BRINKMANN CONSTRUCTORS | MECHANICAL ENGINEER |
| LATIMER SOMMERS & ASSOCIATES | PLUMBING ENGINEER |
| LATIMER SOMMERS & ASSOCIATES | ELECTRICAL ENGINEER |
| LATIMER SOMMERS & ASSOCIATES | |

# Summit at West Pryor


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www.trianarchitects.com


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**DATE:** 09.12.19

**REVISIONS**

| | | |
|---|---|---|
| 1 | PERMIT COMMENTS | 09.06.19 |
| 6 | REVISION 1 | 12.20.19 |
| 8 | REVISION 3 | 04.03.20 |

**DWG BY** RRB

**TR;i PROJECT NO.** 18-046

**SHEET NO.**

# E201

**TYPICAL UNIT PLANS - ELECTRICAL**


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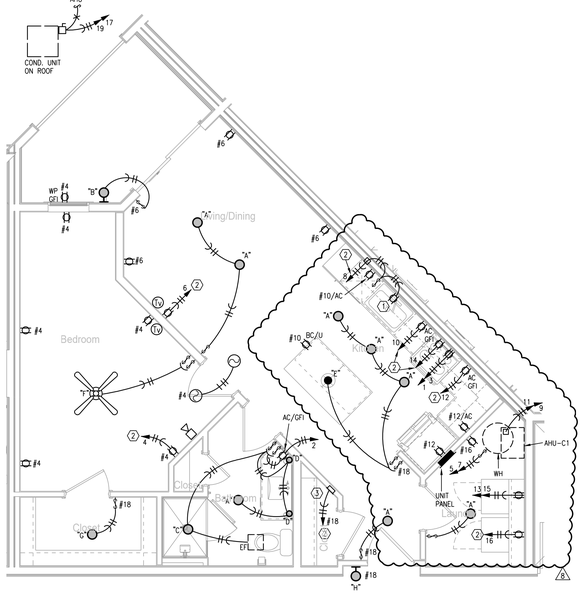
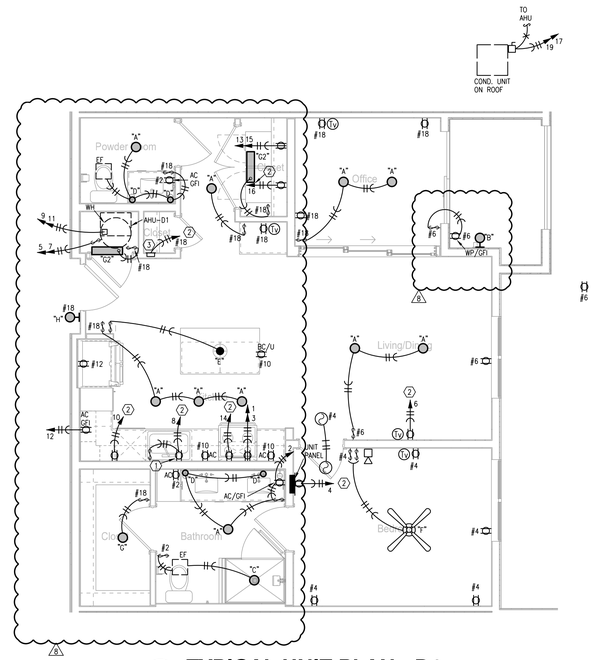


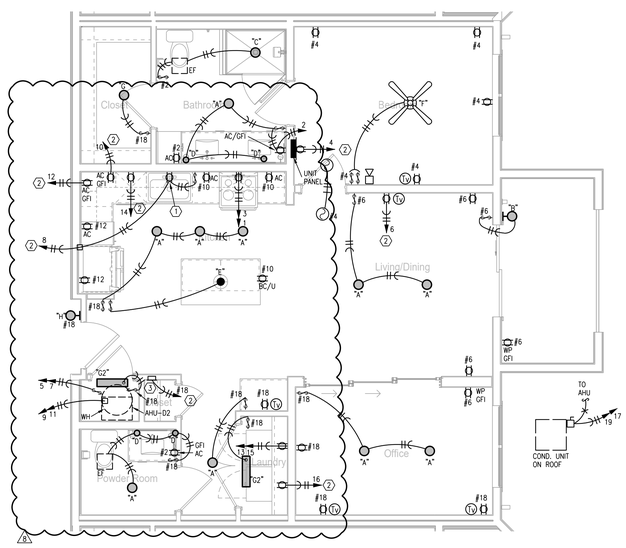

## 1 TYPICAL UNIT PLAN - C1

1/4"=1'-0" (UNIT C2 SIMILAR) ELECTRICAL




## 2 TYPICAL UNIT PLAN - D2

1/4"=1'-0" ELECTRICAL




## 3 TYPICAL UNIT PLAN - D2

1/4"=1'-0" ELECTRICAL

NOTES:

1. TYPE "J" FIXTURE IN HALLWAYS ARE UNSWITCHED. MOUNT AT 72"AFF, VERIFY WITH ARCHITECT.
2. CEILING FAN SWITCHES PROVIDED WITH FAN. CONTROL LIGHT AND FAN SEPARATELY. INTENDED FOR SINGLE GANG BOX.
3. CENTER "H" PENDANT LIGHTS OVER BASE BACK WALL AND CENTERED EQUALLY LEFT TO RIGHT OVER SINK. THESE ARE SEPARATELY SWITCHED.
4. GENERALLY CENTER LIGHT ON WINDOWS, DOOR, HALLWAYS, SINKS, OVER TUBS, ETC. VERIFY ALL LOCATIONS IN EACH UNIT DIMENSIONALLY WITH ARCHITECT, INTERIOR DESIGNER AND OWNER. MOUNT SWITCHES CLOSE TO DOORS OR WALL CORNERS.
5. THERMOSTATS HAVE LOW VOLTAGE WIRE BACK TO AHU. CONDENSING UNITS HAVE LOW VOLTAGE WIRE BACK TO AHU.
6. (C) = 120V. SMOKE/CO ALARM WITH BATTERY BACK-UP AND AUXILARY CONTACT SO ALL SOUND TOGETHER.
7. ALL ARC-FAULT CIRCUIT BREAKERS SHALL BE COMPATIBLE WITH CEILING FANS, COMPACT AND STANDARD FLUORESCENT LAMPS/FIXTURES AND OTHER ELECTRONIC DEVICES.
8. PROVIDE PROTECTION AT ELECTRICAL BOXES AT RATED CEILING MEMBRANES PER IBC 712.4.1.2(2). BOXES TO BE LISTED FOR RATED MEMBRANES, NOT EXCEED 16 SQUARE INCHES, NOT COMBINE FOR MORE THAN 100 SQUARE INCHES IN 100 SQUARE FEET AND ANNULAR SPACE NOT EXCEED 1/8".
9. FIRE ALARM HORN/STROBE CIRCUITS SHALL BE SIZED TO ACCEPT BEDROOM HORN/STROBES IN FUTURE INCLUDING WIRING AND PANEL CAPACITY.
10. ALL RANGES SERVED BY (3) #8 & (1) #10 AND 50A. RECEPTACLE.
11. ALL WATER HEATERS SERVED BY (3) #10
12. ALL WASHERS AND REFRIGERATORS HAVE RECEPTACLES AT 48".
13. SEE HVAC SCHEDULE AND SHOP DRAWINGS FOR AHU AND HEAT PUMP CIRCUITS.
14. ALL DRYERS SERVED BY (4) #10 AND 30A. RECEPTACLE.
15. BELOW COUNTER RECEPTACLES AND PLATES SHALL MATCH THE BASE CABINETS WHERE THEY ARE MOUNTED (BROWN, WHITE, ETC.) VERIFY WITH ARCHITECT.
16. EXTERIOR RECEPTACLES SHALL BE ARLINGTON #DBVM1C RECESSED TYPE.

LEGEND:

1. SWITCHED RECEPTACLE FOR GARBAGE DISPOSER CONTINUE CIRCUIT TO DISHWASHER.
2. PROVIDE ARC-FAULT CIRCUIT BREAKER IN PANEL.
3. TELE/TV DEMARK FLUSH BOX. PROVIDE WITH DUPLEX OUTLET. PROVIDE 1" CONDUIT FROM BOX TO ABOVE CEILING AND OUT TO CEILING IN THE HALLWAY. SEE DETAILS.
4. SMOKE ALARM TO HAVE STROBES.
5. CONNECT RANGE HOOD TO TWO SWITCHES ABOVE COUNTER TO CONTROL LIGHT AND FAN.

ELECTRICAL SYMBOLS LEGEND;

- DUPLEX RECEPTACLE.
- 120/240V. RECEPTACLE. 30A. FOR DRYER, 50A. FOR RANGE.
- SW RECEPTACLE HALF SWITCHED.
- U USB CHARGING COMB. RECEPTACLE.
- ▼ DATA OUTLET.
- ▽ VOICE OUTLET.
- TV COMBINATION CATV/DATA OUTLET.
- AC ABOVE COUNTER
- BC BELOW COUNTER
- LOW FREQUENCY HORN

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEES SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
BENJAMIN R. BRANDMORE
NUMBER PE-2004038766
PROFESSIONAL ENGINEER
4-3-20

| | |
|---|---|
| TR,i ARCHITECTS | ARCHITECT |
| BOB D CAMPBELL & COMPANY | STRUCTURAL ENGINEER |
| RENAISSANCE INFRASTRUCTURE CONSULTING | CIVIL ENGINEER |
| BRINKMANN CONSTRUCTORS | GENERAL CONTRACTOR |
| LATIMER SOMMERS & ASSOCIATES | MECHANICAL ENGINEER |
| LATIMER SOMMERS & ASSOCIATES | PLUMBING ENGINEER |
| LATIMER SOMMERS & ASSOCIATES | ELECTRICAL ENGINEER |

# Summit at West Pryor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DATE: 09.12.19

REVISIONS

| | | |
|---|---|---|
| 1 | PERMIT COMMENTS | 09.06.19 |
| 2 | REVISION 1 | 12.20.19 |
| 3 | REVISION 3 | 04.03.20 |

DWG BY RRB

TR,i PROJECT NO. 18-046

SHEET NO.

E202

TYPICAL UNIT PLANS - ELECTRICAL


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FAX: (785) 233-0447
Email: lsapa@lsapa.com

LSA PROJECT NO. 1904023

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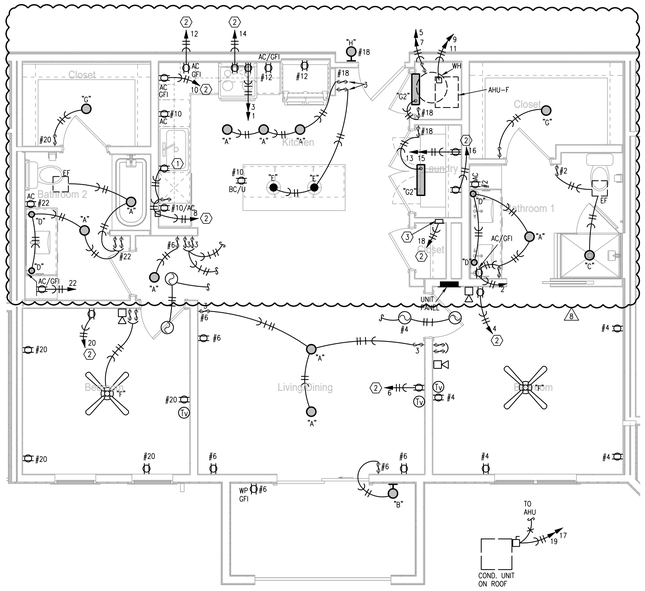
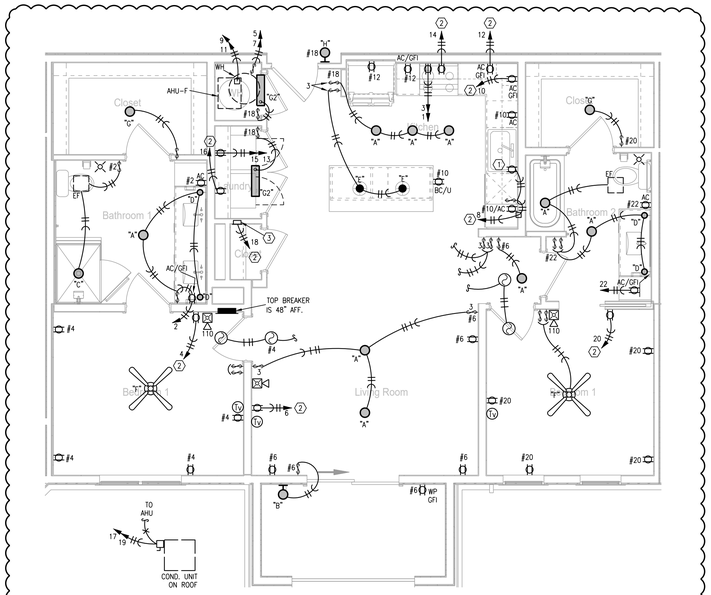


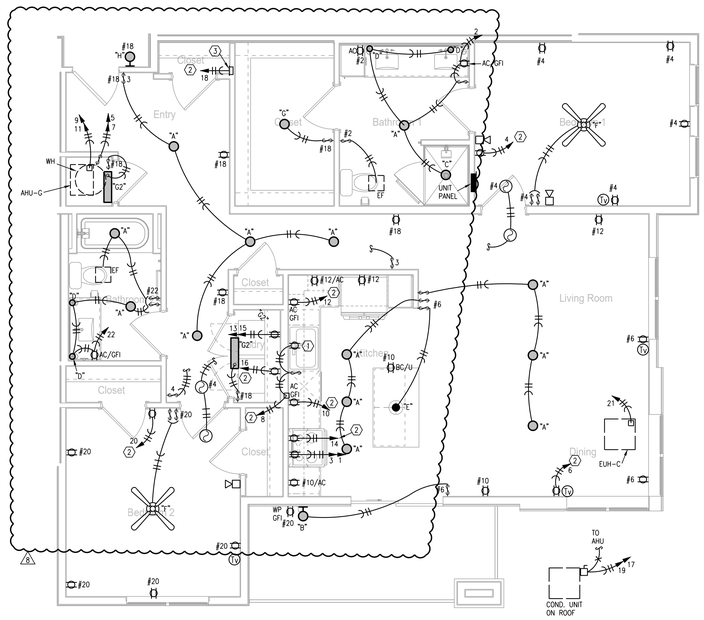

## 1 TYPICAL UNIT PLAN - F1

1/4"=1'-0" ELECTRICAL



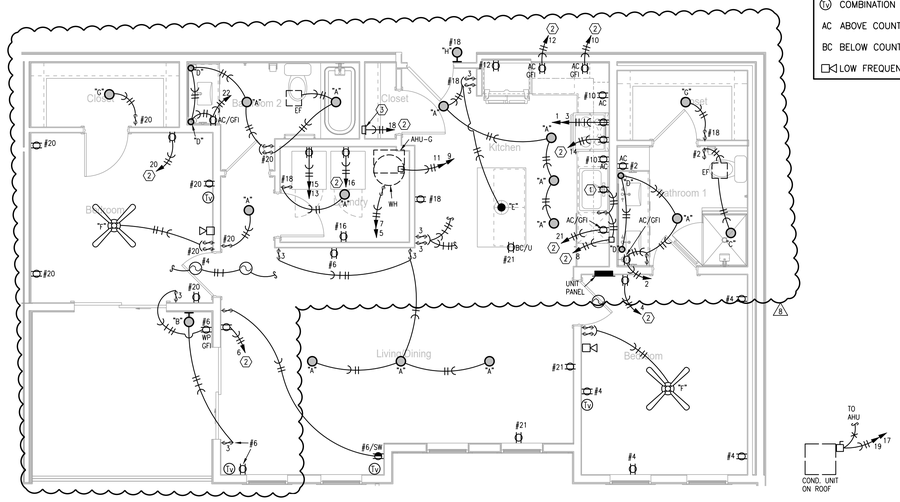

## 4 TYPICAL UNIT PLAN - F1 TYPE A

1/4"=1'-0" ELECTRICAL




## 2 TYPICAL UNIT PLAN - G

1/4"=1'-0" (UNIT G1.1 SIMILAR) ELECTRICAL




## 3 TYPICAL UNIT PLAN - H

1/4"=1'-0" (UNIT H2 SIMILAR) ELECTRICAL

NOTES:

1. TYPE "J" FIXTURE IN HALLWAYS ARE UNSWITCHED. MOUNT AT 72"AFF, VERIFY WITH ARCHITECT.
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5. THERMOSTATS HAVE LOW VOLTAGE WIRE BACK TO AHU. CONDENSING UNITS HAVE LOW VOLTAGE WIRE BACK TO AHU.
6. (S) = 120V. SMOKE/CO ALARM WITH BATTERY BACK-UP AND AUXILIARY CONTACT SO ALL SOUND TOGETHER.
7. ALL ARC-FAULT CIRCUIT BREAKERS SHALL BE COMPATIBLE WITH CEILING FANS, COMPACT AND STANDARD FLUORESCENT LAMPS/FIXTURES AND OTHER ELECTRONIC DEVICES.
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11. ALL WATER HEATERS SERVED BY (3) #10
12. ALL WASHERS AND REFRIGERATORS HAVE RECEPTACLES AT 48".
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LEGEND:

1. SWITCHED RECEPTACLE FOR GARBAGE DISPOSER CONTINUE CIRCUIT TO DISHWASHER.
2. PROVIDE ARC-FAULT CIRCUIT BREAKER IN PANEL.
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- ▼ DATA OUTLET.
- ▽ VOICE OUTLET.
- Tv COMBINATION CATV/DATA OUTLET.
- AC ABOVE COUNTER
- BC BELOW COUNTER
- LOW FREQUENCY HORN


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FAX: (785) 233-0647
Email: lsapa@lsapa.com


LSA PROJECT NO. 1904023


RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/13/2020


STATE OF MISSOURI
RICHARD R. BRANDMORE
NUMBER E-22000
PROFESSIONAL ENGINEER
4-3-20

TR.i ARCHITECTS — ARCHITECT
BOB D CAMPBELL & COMPANY — STRUCTURAL ENGINEER
RENAISSANCE INFRASTRUCTURE CONSULTING — CIVIL ENGINEER
BRINKMANN CONSTRUCTORS — GENERAL CONTRACTOR
LATIMER SOMMERS & ASSOCIATES — MECHANICAL ENGINEER
LATIMER SOMMERS & ASSOCIATES — PLUMBING ENGINEER
LATIMER SOMMERS & ASSOCIATES — ELECTRICAL ENGINEER

# Summit at West Pryor


TR.i Architects
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St. Louis, Missouri 63119
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**DATE:** 09.12.19

**REVISIONS**

| | | |
|---|---|---|
| 1 | PERMIT COMMENTS | 09.06.19 |
| 6 | REVISION 1 | 12.20.19 |
| 8 | REVISION 3 | 04.03.20 |

**DWG BY** RRB

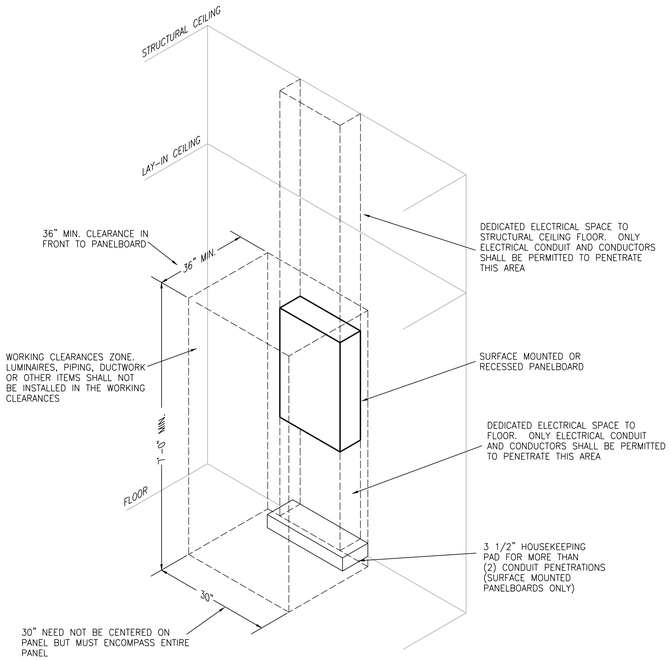
**TR.i PROJECT NO.** 18-046

**SHEET NO.**

# E203

**TYPICAL UNIT PLANS - ELECTRICAL**

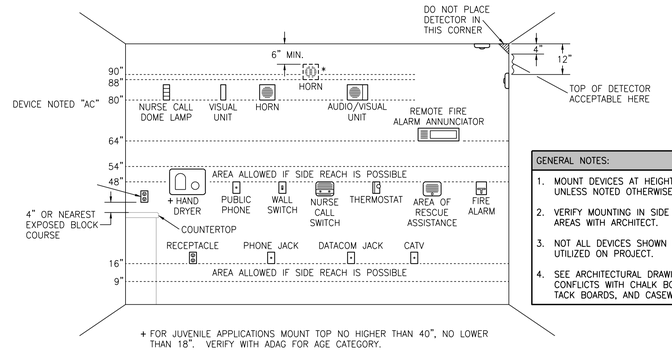
C:\Users\Cnaetzig\Latimer Sommers and Associates\All LSA Staff - Documents\JM\2019\Summit\AWestPryor\LeesSummit) 1904023\CAD\E201-2-3.dwg, 4/10/2020 2:22:10 PM, 1:1




NOTE:

COORDINATE ALL WORK WITH OTHER TRADES. MAINTAIN ALL OTHER NEC CLEARANCES AND REQUIREMENTS.

## 1 TYPICAL PANELBOARD INSTALLATION DETAIL
NO SCALE




GENERAL NOTES:

1. MOUNT DEVICES AT HEIGHT INDICATED UNLESS NOTED OTHERWISE ON PLANS.
2. VERIFY MOUNTING IN SIDE REACH AREAS WITH ARCHITECT.
3. NOT ALL DEVICES SHOWN MAY BE UTILIZED ON PROJECT.
4. SEE ARCHITECTURAL DRAWINGS FOR CONFLICTS WITH CHALK BOARDS, TACK BOARDS, AND CASEWORK.

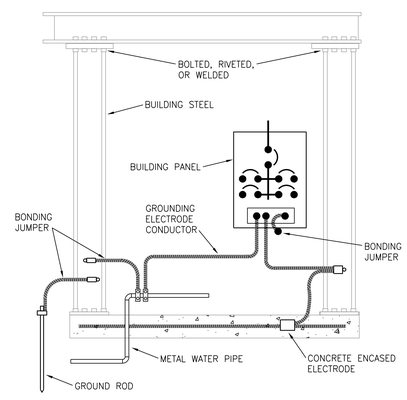
DEVICE MOUNTING NOTES:

1. VISUAL UNIT
   DEVICE BOTTOM 80" ABOVE HIGHEST FLOOR LEVEL OR TOP 6" BELOW CEILING; WHICHEVER IS LOWER.
2. AUDIO UNIT
   DEVICE BOTTOM 80" ABOVE HIGHEST FLOOR LEVEL OR TOP 6" BELOW CEILING; WHICHEVER IS LOWER.

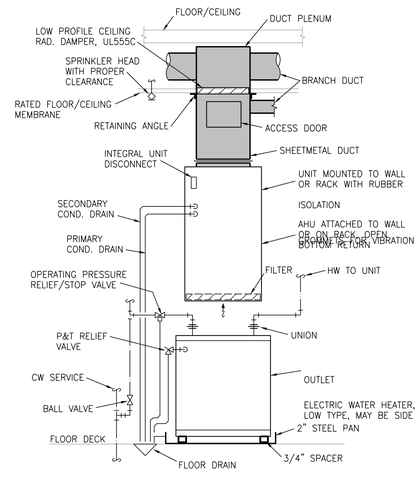
   * TOP OF UNIT NOT LESS THAN 90" ABOVE FLOOR AND NOT LESS THAN 6" BELOW CEILING (NFPA) (BOTTOM AT 88" WITH BLOCK COURSES). MOUNT AT NFPA HEIGHT ONLY IF REQUIRED BY LOCAL AHJ.
3. AUDIO/VISUAL UNIT
   DEVICE BOTTOM 80" ABOVE HIGHEST FLOOR LEVEL OR TOP 6" BELOW CEILING; WHICHEVER IS LOWER.
4. PULL STATION
   HIGHEST OPERABLE PART SHALL NOT BE MORE THAN 48" ABOVE THE FLOOR (FRONT APPROACH).

ELECTRICAL DEVICE MOUNTING HEIGHTS SHALL CONFORM TO THE LATEST EDITION OF THE ADA STANDARDS FOR ACCESSIBLE DESIGN.

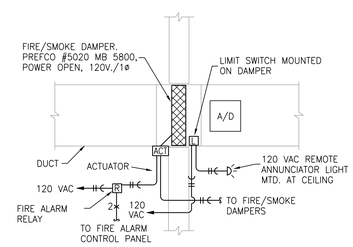
## 2 ELECTRICAL DEVICE MOUNTING HEIGHTS
NO SCALE



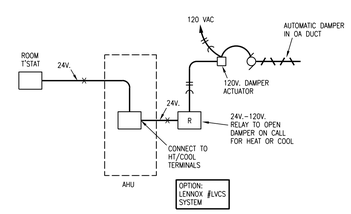

## 3 GROUNDING ELECTRODE SYSTEM DETAIL
NO SCALE




## 4 MECHANICAL CLOSET DETAIL
NO SCALE




## 5 FIRE/SMOKE DAMPER DETAIL
NO SCALE




## 6 OUTSIDE AIR DAMPER CONTROL SCHEMATIC
NO SCALE (TYP. FOR CORRIDOR UNITS)

| SECURITY SYMBOLS LEGEND | |
|---|---|
| ACC | ACCESS CONTROL SERVER |
| ACM | ACCESS CONTROL WORK STATION |
| | CAMERA WITH AUTO IRIS |
| | CAMERA WITH FIXED IRIS |
| CR | CARD READER |
| CCVE | COVE PANEL |
| CCVE M | COVE MASTER PANEL |
| DP | DOOR POSITION CONTACT |
| D | DURESS SWITCH |
| ES | ELECTRIC STRIKE |
| GB | GLASS BREAK DETECTOR |
| ISC | INTELLIGENT SYSTEM CONTROLLER |
| KBRD | KEY BOARD |
| KP | KEY PAD |
| ML | MAG LOCK |
| MD | CAMERA WITH MOTION DETECTOR |
| M | MONITOR |
| MD | MOTION DETECTOR |
| PTZ | PAN, TILT, ZOOM CAMERA |
| PB | PUSH BUTTON REQUEST TO EXIT |
| RX | AUTO REQUEST TO EXIT |
| PB | PUSHBAR REQUEST TO EXIT |
| RIC | RELAY INTERFACE CABINET |

* ALL SYMBOLS SHOWN ABOVE MAY NOT APPEAR ON PLANS

## ELECTRICAL SYMBOLS LEGEND

| | | | |
|---|---|---|---|
| | CONDUIT CONCEALED IN CEILING OR WALL | "A" | LIGHT FIXTURE AND TYPE |
| | CONDUIT CONCEALED IN FLOOR SLAB | | FLUORESCENT LIGHT FIXTURE |
| | EXPOSED CONDUIT | | EMERGENCY LIGHT FIXTURE WITH BATTERY PACK |
| | HOMERUN – ARROW INDICATES CKT., LINES INDICATE WIRES | | EXIT LIGHT (CEILING OR WALL MOUNTED) |
| | GROUND WIRE | | FLUSH PANELBOARD |
| | GROUNDING ROD | | SURFACE PANELBOARD |
| | SINGLE RECEPTACLE | | DISTRIBUTION PANEL OR SWITCHBOARD |
| | DUPLEX RECEPTACLE (20 AMP UNLESS NOTED) | | A/V (WALL MOUNTED) 24 VDC |
| U | USB CHARGING RECEPTACLE | | STROBE |
| | FOURPLEX RECEPTACLE | | FLOW DETECTOR/SWITCH |
| | 208 OR 240 VOLT RECEPTACLE (20 AMP UNLESS NOTED) | | TAMPER DETECTOR |
| | TELE/DATA OUTLET * | | ADDRESSABLE MANUAL PULL STATION |
| | PUSHBUTTON | | SMOKE DETECTOR |
| | MOTOR | | HEAT DETECTOR |
| | FUSIBLE SWITCH (BUSSMAN SSU) | | ELECTRIC DOOR HOLDER ON FIRE ALARM |
| | DISCONNECT SWITCH (D.S.) | FS | FIRE/SMOKE DAMPER |
| | COMBINATION MOTOR STARTER (CMS) | FCP | FIRE ALARM CONTROL PANEL |
| R | RELAY | FAA | FIRE ALARM ANNUNCIATOR PANEL |
| | JUNCTION BOX | ARA | AREA RESCUE CALL STATION |
| | THERMOSTAT ELECTRIC | AC | DEVICE LOCATED ABOVE COUNTER |
| | SWITCH – SINGLE POLE | AFF | ABOVE FINISHED FLOOR |
| 3, 4 | 3-WAY, 4-WAY | D | DIMMER |
| TV | COMBINATION TV AND DATA OUTLET | EDF | ELECTRIC DRINKING FOUNTAIN |
| | | GFI | GROUND FAULT INTERRUPTER |
| | | NL | NIGHTLIGHT FIXTURE, WIRED HOT |
| | | WP | WEATHERPROOF |

NOTES: ALL SYMBOLS SHOWN ABOVE MAY NOT APPEAR ON PLANS. REFER TO MECHANICAL SYMBOLS LEGEND FOR MECHANICAL SYMBOLS THAT MAY BE SHOWN ON ELECTRICAL PLANS. * 4x4 BACKBOX WITH SINGLE GANG PLASTER RING AND A 1" CONDUIT TO ABOVE ACCESSIBLE CEILING.

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
Jul 13/2020

STATE OF MISSOURI
RICHARD R. BRANCHEAU
NUMBER PE-2005020056
PROFESSIONAL ENGINEER
07-29-19

| | |
|---|---|
| TR.i ARCHITECTS | ARCHITECT |
| BOB D CAMPBELL & COMPANY | STRUCTURAL ENGINEER |
| RENAISSANCE INFRASTRUCTURE CONSULTING | CIVIL ENGINEER |
| BRINKMANN CONSTRUCTORS | GENERAL CONTRACTOR |
| LATIMER SOMMERS & ASSOCIATES | MECHANICAL ENGINEER |
| LATIMER SOMMERS & ASSOCIATES | PLUMBING ENGINEER |
| LATIMER SOMMERS & ASSOCIATES | ELECTRICAL ENGINEER |

Pearl COMPANIES

# Summit at West Pryor

TR.i ARCHITECTS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DATE: 07.29.19

REVISIONS ___

DWG BY RRB

TR.i PROJECT NO. 18-046

SHEET NO.

E301

ELECTRICAL DETAILS


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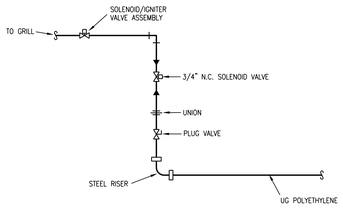
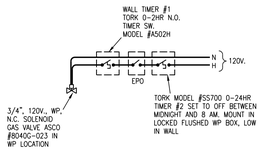
LSA PROJECT NO. 1904023

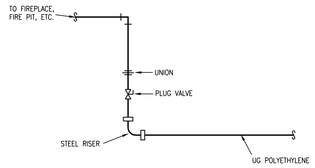



PIPING SCHEMATIC

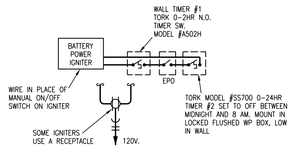



CONTROL SCHEMATIC

## 1 GAS CONTROL DETAIL
NO SCALE (GRILL)

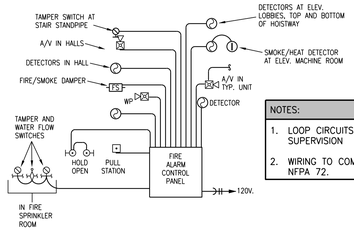



PIPING SCHEMATIC




CONTROL SCHEMATIC

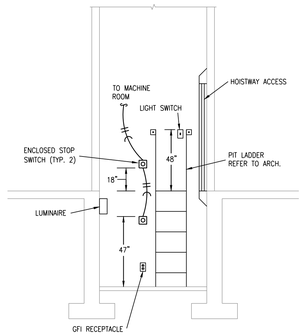
## 2 GAS CONTROL DETAIL
NO SCALE (FIRE PIT)




NOTES:

1. LOOP CIRCUITS TO COMPLETE SUPERVISION
2. WIRING TO COMPLY WITH NFPA 72.

## 3 FIRE ALARM RISER DIAGRAM
NO SCALE

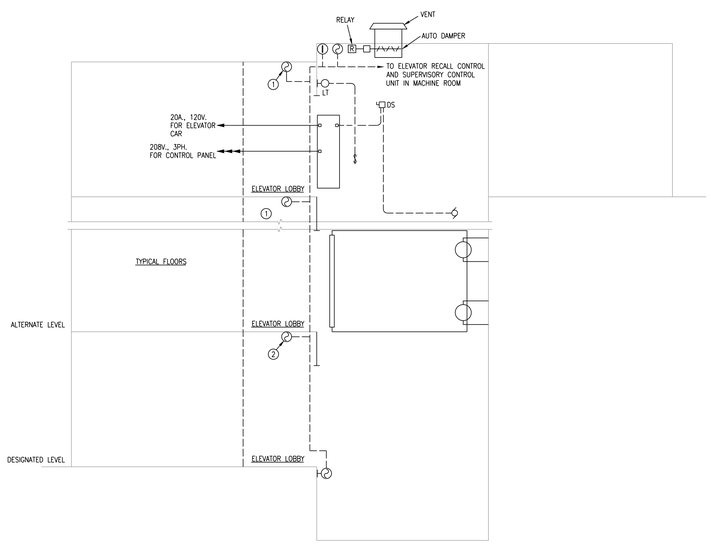



## 4 ELEVATOR PIT DETAIL
NO SCALE

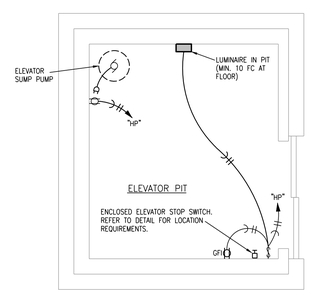
| DETECTOR OPERATION: |
|---|
| (1) RECALL TO DESIGNATED LEVEL. |
| (2) RECALL TO ALTERNATE LEVEL. |

| SYSTEM SEQUENCE: |
|---|
| UPON DETECTION OF SMOKE IN ELEVATOR LOBBIES, MACHINE ROOM, TOP OF HOISTWAY OR BOTTOM OF HOISTWAY, ELEVATOR RECALL CONTROLS SHALL BE ACTIVATED AND VENT DAMPER OPENED. |

| SYMBOLS LEGEND: | |
|---|---|
| (1) | HEAT DETECTOR |
| (2) | SMOKE DETECTOR |
| | SPRINKLER |




## 5 ELECTRIC ELEVATOR FIRE PROTECTION SYSTEM OPERATION DETAIL
NO SCALE




## 6 ELEVATOR PIT ELECTRICAL DETAIL
NO SCALE

1 OMIT

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
09/13/2020

STATE OF MISSOURI
RICHARD R. BEAUCHAMP
NO. 2003000
PROFESSIONAL ENGINEER
9-6-19

| | |
|---|---|
| TR,i ARCHITECTS | ARCHITECT |
| BOB D CAMPBELL & COMPANY | STRUCTURAL ENGINEER |
| RENAISSANCE INFRASTRUCTURE CONSULTING | CIVIL ENGINEER |
| BRINKMANN CONSTRUCTORS | GENERAL CONTRACTOR |
| LATIMER SOMMERS & ASSOCIATES | MECHANICAL ENGINEER |
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| LATIMER SOMMERS & ASSOCIATES | ELECTRICAL ENGINEER |

Pearl COMPANIES

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DATE: 07.29.19

REVISIONS

| | | |
|---|---|---|
| 1 | PERMIT COMMENTS | 09.06.19 |

DWG BY RRB

TR,i PROJECT NO. 18-046

SHEET NO.

E302

ELECTRICAL DETAILS

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FAX: (785) 233-0647
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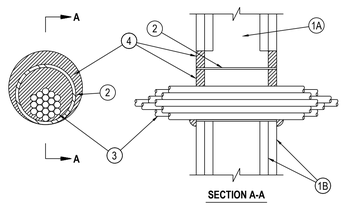
LSA PROJECT NO. 1904023




SECTION A-A

NOTES AND LEGENDS:

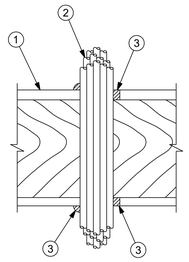
1. 1. Wall Assembly – The 1 or 2 fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs – Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC.
   B. Gypsum Board* – Nom 5/8 in. (16 mm) thick gypsum board, with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300, U400 or V400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 5-1/2 in. (138 mm) when sleeve (Item 2) is employed. Max diam of opening is 4 in. (102 mm) when sleeve (Item 2) is not employed. The F Rating of the Firestop system is equal to the fire rating of the wall assembly.

   Metallic Sleeve – (Optional) – Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT) or Schedule 5 (or heavier) steel pipe or min 0.016 in. thick (0.41 mm, NZo. 28 ga) galv steel sleeve installed flush with wall surfaces. The annular space between steel sleeve and periphery of opening shall be min 0 in. (0 mm, point contact) to max 1 in. (25mm). When Schedule 5 steel pipe or EMT is used, sleeve may extend up to 18 in. (457 mm) beyond the wall surfaces.
2. Cables – Aggregate cross-sectional area of cable in opening to be max 45 percent of the cross-sectional area of the opening. The annular space between the cable bundle and the periphery of the opening to be min 0 in. (0 mm, point contact) to max 1 in. (25 mm) Cables to be rigidly supported on both sides of the wall assembly. Any combination of the following types
3. and sizes of copper conductor cables may be used:
   A. Max 7/C No. 12 AWG with polyvinyl chloride (PVC) insulation and jacket.
   B. Max 25 pair No. 24 AWG telephone cable with PVC insulation and jacket.
   C. Type RG/U coaxial cable with polyethylene (PE) insulation and PVC jacket having a max outside diameter of ½ in. (13 mm).
   D. Multiple fiber optical communication cable jacketed with PVC and having a max OD of 5/8 in. (16 mm).
   E. Through Penetrating Products*– Max three copper conductor No. 8 AWG . Metal-Clad Cable+.
   AFC CABLE SYSTEMS INC
   F. Max 3/C (with ground)(or smaller) No. 8 AWG copper conductor cable with PVC insulation and jacketing.
   G. Max 3/4 in. (19 mm) diam copper ground cable with or without a PVC jacket.
   H. Fire Resistive Cables* – Max 1-1/4 in. (32 mm) diam single conductor or multi conductor Type MI cable. A min 1/8 in. (3 mm) separation shall be maintained between MI cables
4. and any other types of cable.
   Through Penetrating Product* – Any cables, Metal-Clad Cable+ or Armored Cable+ currently Classified under the Through Penetrating Products category. See Through Penetrating Product (XHLY) category in the Fire Resistance Directory for names of manufacturers.

   Fill, Void or Cavity Material*– Sealant or Putty – Fill material applied within the annulus, flush with each end of the steel sleeve or wall surface. Fill material installed symmetrically on both sides of the wall. A min 5/8 in. (16 mm) thickness of sealant is required for the 1 or 2 hr F Rating . An additional 1/2 in. (13 mm) diam bead of fill material shall be applied around the perimeter of sleeve on both sides of the wall when sleeve extends beyond surface of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC – CP601S, CP606, FS-One Sealants or CP618 Putty
   *Bearing the UL Classification Mark
   +Bearing the UL Listing Mark

## 1 FIRE RATED PENETRATION DETAIL

NO SCALE SYSTEM WL-3065




NOTES AND LEGENDS:

1. 1. Floor-Ceiling Assembly – The 1 hr fire-rated solid or trussed lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L500 Series Floor-Ceiling Designs in the UL Fire Resistance Directory. The general construction features of the floor-ceiling assembly are summarized below:
   A. Flooring System – Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Mixture* as specified in the individual Floor-Ceiling Design. Max diam of opening shall be 3 in.
   B. Wood Joists* – Nom 10 in. deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members* with bridging as required and with ends firestopped.
1A. C. Gypsum Board* – Nom 4 ft wide by 5/8 in. thick as specified in the individual Floor-Ceiling Design. Gypsum board secured to wood joists or furring channels as specified in the individual Floor-Ceiling Design.

   Chase Wall – (Optional, Not Shown) – The through penetrants (Item 2) may be routed through a 1 hr fire rated single, double or staggered wood stud/gypsum board chase wall. Depth of chase wall stud cavity to be min 1/2 in. greater than diameter of opening cut in sole and top plates to accommodate the through penetrant (Item 2). The hose wall shall be constructed of the materials and in the manner specified in the individual U300 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include
2. the following construction features:
   A. Studs – Nom 2 by 4 in., 2 by 6 in. or double nom 2 by 4 in. lumber studs.
   B. Sole Plate – Nom 2 by 4 in., 2 by 6 in. or parallel 2 by 4 in. lumber plates, tightly butted. Max diam of opening is 3 in.
   C. Top Plate – The double top plate shall consist of two nom 2 by 4 in., two nom 2 by 6 in. or two sets of parallel 2 by 4 in. lumber plates, tightly butted. Max diam of opening is 3 in.
   D. Gypsum Board* – Thickness, type, number of layers and fasteners shall be as specified in the individual Wall and Partition Design.

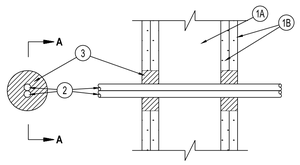
   Cables – Aggregate cross-sectional area of cable in opening to be max 50 percent of the cross-sectional area of the opening. The annular space between the cable bundle and the
3. periphery of the opening to be min 0 in. (point contact) to max 1 in. Cables to be rigidly supported on both sides of the floor-ceiling assembly. Any combination of the following types and sizes of copper conductor cables may be used:
   A. Max 150 pair No. 24 AWG telephone cable with PVC insulation and jacket.
   B. Max 2/C No. 10 with ground Type NM nonmetallic sheathed (Romex) cable with PVC insulation and jacket.
   C. Max 3/C with ground 2/0 AWG aluminum SER cable with PVC insulation and jacket.
   D. Max 3/C No. 10 AWG copper conductor steel clad cable.
   E. Max 24 fiber optic cable.
   F. RG 59U coaxial cable.
   G. CAT 5 data cable.

   Fill, Void or Cavity Materials*–Sealant – Min 3/4 in. thickness of sealant applied within the annulus flush with the top surface of the floor or sole plate and min 5/8 in. thickness of sealant applied within the annulus flush with the bottom surface of gypsum board or lower top plate. A min 1/2 in. diameter bead of sealant applied at the cable bundle/subflooring or sole plate interface and the cable bundle/gypsum board or top plate interface at point contact locations.
   HILTI CONSTRUCTION CHEMICALS, DIV OF
   HILTI INC – CP 606 Flexible Firestop Sealant

   *Bearing the UL Classification Mark

## 2 FIRE RATED PENETRATION DETAIL

NO SCALE SYSTEM FC-3074




SECTION A-A

NOTES AND LEGENDS:

1. Wall Assembly -- The fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features.

   A. Studs -- Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.

   B. Gypsum Board* -- 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening is 3 in. The hourly F rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed. The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed. The hourly T Rating of the firestop system is 1/4 and 3/4 hr for 1 and 2 hr rated wall assemblies, respectively.

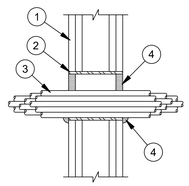
2. Cables -- Max two 3/C with ground No. 2/0 AWG aluminum or copper Type SER cable with polyvinylchloride (PVC) insulation. Cable to be rigidly supported on both sides of wall assembly. The annular space between the cables and the periphery of opening shall be min 1/2 in. to max 1-1/2 in.

3. Fill, Void or Cavity Material* -- Sealant -- Installed to completely fill the annular space between the cables and gypsum wallboard on both sides of wall.

   HILTI CONSTRUCTION CHEMICALS, DIV OF
   HILTI INC -- FS-One Sealant

## 3 FIRE STOP DETAIL

NO SCALE SYSTEM W-L-3071




NOTES AND LEGENDS:

1. Wall Assembly -- The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified if the individual U300 or U400 Series Wall and Partition Designs in the Fire Resistance Directory and shall include the following construction features:

   A. Studs -- Wall framing shall consist of either wood studs or channel shaped steel studs. Wood studs to consist of 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide, fabricated from min 25 MSG galvanized steel, spaced max 24 in. OC.

   B. Gypsum Board* -- Nom 5/8 in. thick with square or tapered edges. The gypsum board type, number of layers and sheet orientation shall be as specified in the individual Wall and Partition Design Number. Max diameter of opening is 4 in. The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

2. Non-Metallic Sleeve -- Nom 4 in. diam (or smaller) Schedule 40 solid or cellular core polyvinyl chloride (PVC) pipe friction fit into wall flush with both surfaces of wall.

3. Cables -- Aggregate cross-sectional area of cable in opening to be max 45 percent of the cross-sectional area of the opening. The annular space between the cable bundle and the periphery of the opening to be min 0 in. (point contact) to max 1-3/8 in. Cables to be rigidly supported on both sides of the wall assembly. Any combination of the following types and sizes of copper conductor cables may be used:
   A. Max 500 KCMIL power cable.
   B. Max 100 pair No. 24 AWG telephone cable with PVC insulation and jacket.
   C. Type RG /U coaxial cable with polyethylene (PE) insulation and PVC jacket and having a max OD of ½ in.
   D. Max 3/C No. 8 AWG steel clad cable.
   E. Max 3/C No. 8 AWG (with ground) with PVC insulation and jacket.
   F. Multiple fiber optical communication cable with PVC jacket with a max OD of 3/8 in.
   G. Max 3/4 in diam copper ground cable with PVC jacket.

4. Fill, Void or Cavity Material* – Putty -- Min 5/8 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point contact location between cables/sleeve, a min ½ in. diam bead of fill material shall be applied at the cable /sleeve interface.

   HILTI CONSTRUCTION CHEMICALS, DIV OF
   HILTI INC -- CP618 Putty Stick.

   *Bearing the UL Classification Mark

## 4 FIRE STOP DETAIL

NO SCALE SYSTEM W-L-3213

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
Jul 13/2020

STATE OF MISSOURI
RICHARD R. HARDEMAN
NUMBER PE-2003020496
PROFESSIONAL ENGINEER
07-29-19

ARCHITECT
TR¡ ARCHITECTS

STRUCTURAL ENGINEER
BOB D CAMPBELL & COMPANY

CIVIL ENGINEER
RENAISSANCE INFRASTRUCTURE CONSULTING

GENERAL CONTRACTOR
BRINKMANN CONSTRUCTORS

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ELECTRICAL ENGINEER
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Pearl COMPANIES

# Summit at West Pryor

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DATE: 07.29.19

REVISIONS ____

DWG BY RRB

TR¡ PROJECT NO. 18-046

SHEET NO.

E303

ELECTRICAL DETAILS


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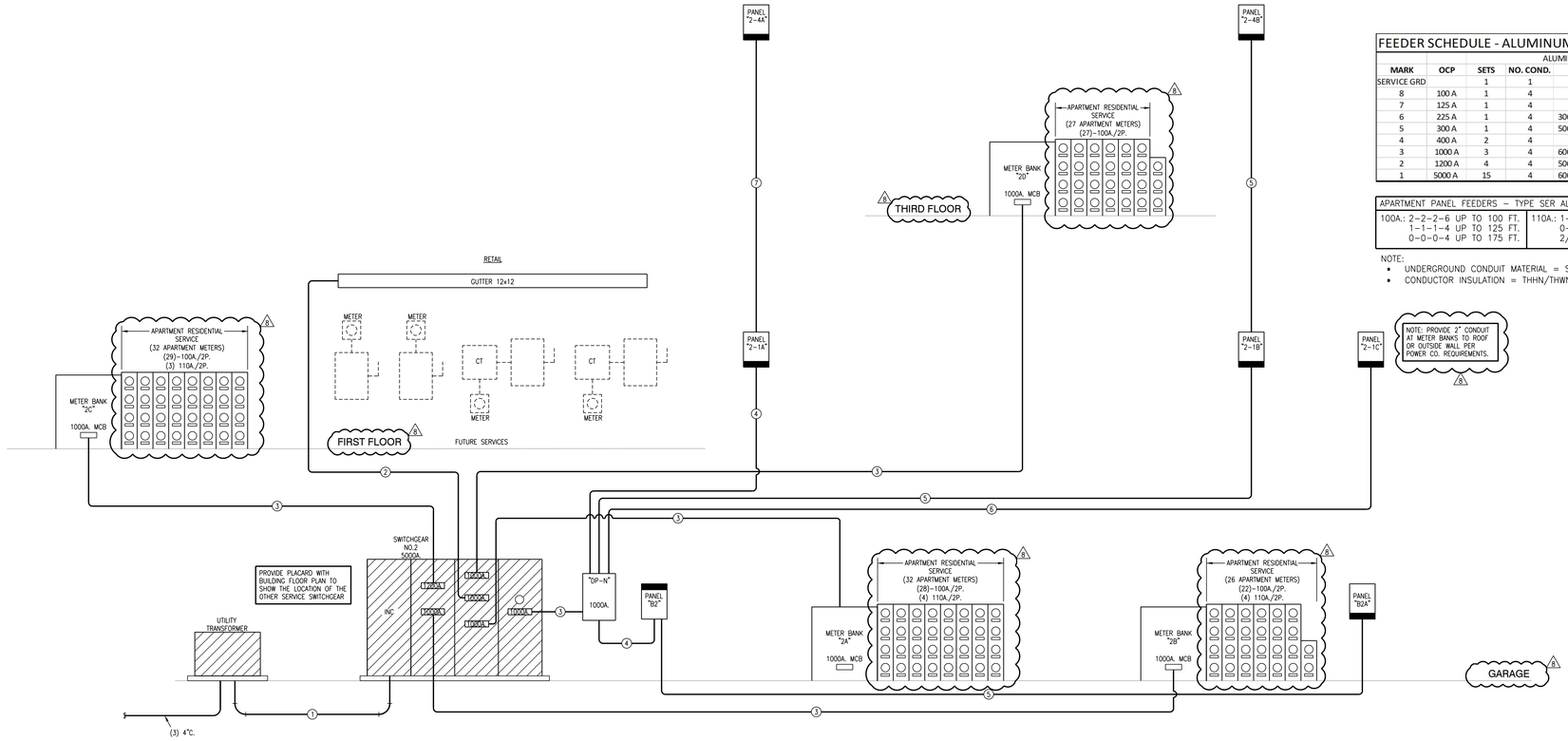
LSA PROJECT NO. 1904023



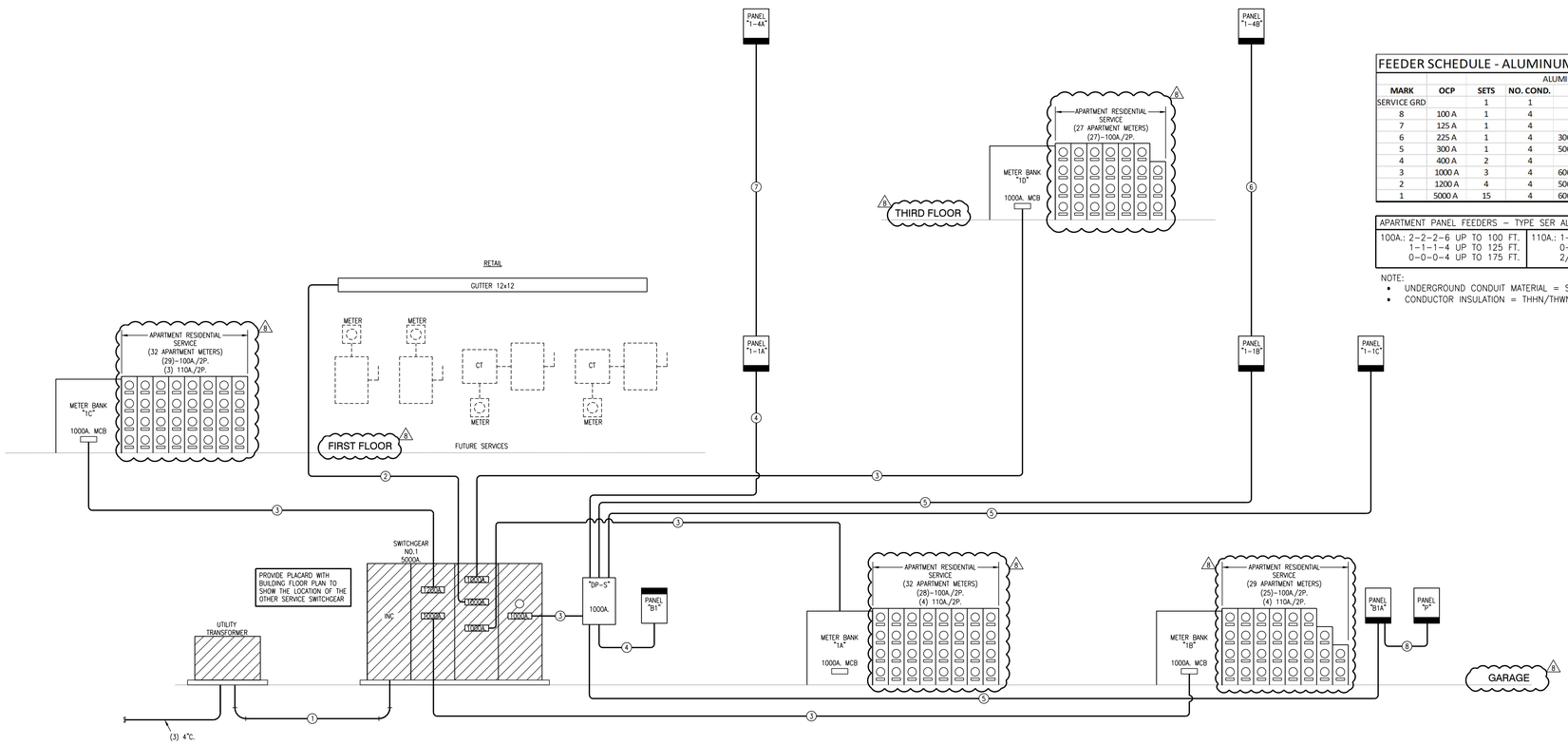

## 2 ELECTRICAL DISTRIBUTION RISER DIAGRAM - NORTH SERVICE

NO SCALE

| FEEDER SCHEDULE - ALUMINUM AA8000 | | | | | | |
|---|---|---|---|---|---|---|
| | | | ALUMINUM AA8000 | | | |
| MARK | OCP | SETS | NO. COND. | SIZE | SIZE GRD | CONDUIT |
| SERVICE GRD | | 1 | 1 | | 3/0 | |
| 8 | 100 A | 1 | 4 | #1 | #6 | 1.25 |
| 7 | 125 A | 1 | 4 | #1/0 | #4 | 1.5 |
| 6 | 225 A | 1 | 4 | 300 KCMIL | #2 | 2.5 |
| 5 | 300 A | 1 | 4 | 500 KCMIL | #2 | 3 |
| 4 | 400 A | 2 | 4 | #4/0 | #1 | 2 |
| 3 | 1000 A | 3 | 4 | 600 KCMIL | #3/0 | 3 |
| 2 | 1200 A | 4 | 4 | 500 KCMIL | #3/0 | 3 |
| 1 | 5000 A | 15 | 4 | 600 KCMIL | #3/0 | 4 |

| APARTMENT PANEL FEEDERS – TYPE SER ALUMINUM | |
|---|---|
| 100A.: 2-2-2-6 UP TO 100 FT.<br>1-1-1-4 UP TO 125 FT.<br>0-0-0-4 UP TO 175 FT. | 110A.: 1-1-1-4 UP TO 115 FT.<br>0-0-0-4 UP TO 140 FT.<br>2/0-2/0-2/0-3 UP TO 180FT. |

NOTE:
- UNDERGROUND CONDUIT MATERIAL = SCH. 40 PVC.
- CONDUCTOR INSULATION = THHN/THWN.




## 1 ELECTRICAL DISTRIBUTION RISER DIAGRAM - SOUTH SERVICE

NO SCALE

| FEEDER SCHEDULE - ALUMINUM AA8000 | | | | | | |
|---|---|---|---|---|---|---|
| | | | ALUMINUM AA8000 | | | |
| MARK | OCP | SETS | NO. COND. | SIZE | SIZE GRD | CONDUIT |
| SERVICE GRD | | 1 | 1 | | 3/0 | |
| 8 | 100 A | 1 | 4 | #1 | #6 | 1.25 |
| 7 | 125 A | 1 | 4 | #1/0 | #4 | 1.5 |
| 6 | 225 A | 1 | 4 | 300 KCMIL | #2 | 2.5 |
| 5 | 300 A | 1 | 4 | 500 KCMIL | #2 | 3 |
| 4 | 400 A | 2 | 4 | #4/0 | #1 | 2 |
| 3 | 1000 A | 3 | 4 | 600 KCMIL | #3/0 | 3 |
| 2 | 1200 A | 4 | 4 | 500 KCMIL | #3/0 | 3 |
| 1 | 5000 A | 15 | 4 | 600 KCMIL | #3/0 | 4 |

| APARTMENT PANEL FEEDERS – TYPE SER ALUMINUM | |
|---|---|
| 100A.: 2-2-2-6 UP TO 100 FT.<br>1-1-1-4 UP TO 125 FT.<br>0-0-0-4 UP TO 175 FT. | 110A.: 1-1-1-4 UP TO 115 FT.<br>0-0-0-4 UP TO 140 FT.<br>2/0-2/0-2/0-3 UP TO 180FT. |

NOTE:
- UNDERGROUND CONDUIT MATERIAL = SCH. 40 PVC.
- CONDUCTOR INSULATION = THHN/THWN.

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER
PROFESSIONAL ENGINEER
4-3-20

ARCHITECT: TR,i ARCHITECTS
STRUCTURAL ENGINEER: BOB D CAMPBELL & COMPANY
CIVIL ENGINEER: RENAISSANCE INFRASTRUCTURE CONSULTING
GENERAL CONTRACTOR: BRINKMANN CONSTRUCTORS
MECHANICAL ENGINEER: LATIMER SOMMERS & ASSOCIATES
PLUMBING ENGINEER: LATIMER SOMMERS & ASSOCIATES
ELECTRICAL ENGINEER: LATIMER SOMMERS & ASSOCIATES

Pearl COMPANIES

# Summit at West Pryor

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DATE: 09.12.19

REVISIONS

| | | |
|---|---|---|
| 1 | PERMIT COMMENTS | 09.06.19 |
| 2 | REVISION 3 | 04.03.20 |

DWG BY: RRB

TR,i PROJECT NO.: 18-046

SHEET NO.: E304

ELECTRICAL DISTRIBUTION RISER DIAGRAM


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LSA PROJECT NO. 1904023

C:\Users\nbourne\Latimer Sommers and Associates\All LSA Staff - Documents\(M)\2019\SummitAtWestPryor(LeesSummit)-1904023\CAD\E301-7.dwg, 4/10/2020 1:08:31 PM, 1:1

## Luminaire Schedule - Units and Buildings

| MARK | DESCRIPTION | MFGR | MODEL | MOUNTING | FINISH | LAMPS | NOTES |
|---|---|---|---|---|---|---|---|
| A | Disk Light | Halo | SLD612/8030/WH | jb/surface | white | 1200 Lumen 3000K 15W LED | Wet Location |
| B | Patio Light | Astro | Oslo 100 | wall | text. black | 1-10W LED | Wet Location |
| C | Shower/Small Disk Light | Halo | SLD606/8030/WH | jb/surface | white | 600 Lumen 3000K 15W LED | Wet Location |
| D | Vanity Sconce | Custom | To match Stephan Outdoor Sconce | wall | aged iron | 1 - 12W LED | |
| E | Counter pendant | Hudson Valley | Lambert #612-OB | pendant | old bronze | 1-15W LED | |
| F | 5-blade fan, 3-spd, rev. w/globe | Minka-Aire | Aviation #F852L-BN/CL with light | surface | coal | 1-15W LED | Energy Star - dimmable |
| G | Glass globe - small | Nuvo/Rensen House | 041203 | surface | br. nickel | 1-10W LED | |
| G2 | Utility Strip | Progress | P730011-030-30 | surface | white | 20W LED | |
| H | Entry Sconce | Hinkley | 56500M | pendant | satin nickel | 1-10W LED | |
| J | Drum Light | Nuvo/Rensen House | 642285 | surface | pol. Nickel | 2- 13W LED Screw-in | |
| K | Closet Strip | Royal Pacific | 4311W | surface | white | 10W 750 Lumen LED | |
| L | Enclosed Strip | Williams | 96-4-L40/835-HIAFR-DRV | pendant | satin nickel | 4000 LUMEN 3500K LED | LI = w/battery |
| M | Cylinder | Prescolite | LCC8LED-W-24L-30K-8-Z | wall | zet | 2400 Lumen 3000K 33W LED | |
| N | Decorative Light | Allowance | $1,500 | jb/surface | white | 1200 Lumen 3000K 15W LED | |
| P | Public Vanity | Progress | P300182-009-30 | wall | br. nickel | L35W LED | |
| R | Elevator Pit | Royal Pacific | 4306WH | surface | white | 35W 3000 Lumen 4000K LED | |
| S | Garage Light | Royal Pacific | 4431OB-60-MS | surface | standard | 60W 4000K | with 50% motion dimming |
| S1 | Garage Light | Royal Pacific | 4431OB-60-MS | surface | standard | 60W 4000K | with 50% motion dimming/battery |
| T | Public Vanity | Progress | P300182-009-30 | wall | br. nickel | L35W LED | |
| U | Fitness Linear | Williams | 75S-4-L30-8-30 | surface | white | 3000 Lumen 3000K LED | see plans for length |
| V | Club Fitness Fan | Big Ass Fans | B3213-X4-AB-04-02-D-01 | pendant | alum. black | none | |
| W | Sconce | Visa | OW1295-L35K-H-GS/L | wall | Graphite silver | 15W 800 Lumen 3000K LED | |
| X1 | Exit | Lithonia | LHQM-LED-R-HO-RO | surface | white/red | 1.5W LED | |
| X2 | Exit w/heads | Lithonia | LHQM-LED-R-HO | surface | white/red | 1.5W LED | |
| X3 | Exit w/heads and remote | Lithonia | LHQM-LED-R-HO-ELAQ-L0309 | surface | white/red | 1.5W LED | |
| X4 | Exterior Remote Head | Lithonia | ELA-LED | surface | std | 1W LED | |
| X5 | Dual-Head Emergency | Lithonia | ELM4L | surface | std | 640 lumen | |
| | | | | | | 69W 7900 lumen 4000K LED | |

8

## Multi-Family Building Load Analysis

Building: South Entrance

| Unit Quantity | Unit Type | Connected Load - VA | Total KVA |
|---|---|---|---|
| 19 | A1, A2 | 31480 | 598.1 |
| 6 | A3, A4 | 31630 | 189.8 |
| 37 | B, C | 31720 | 1173.6 |
| 26 | D1, D2 | 32260 | 838.8 |
| 21 | F | 32770 | 688.2 |
| 11 | G, H | 36270 | 399.0 |

| | |
|---|---|
| Total Building KVA | 3887.4 |
| Total Units | 120 |
| Diversity per NEC Table 230.84 | 0.23 |
| Diversified KVA | 894.1 |
| Amps @ 208 V Three Phase | 2484 |
| House Load - Amps | 1000 |
| Total Demand - Amps | 3484 |

## Multi-Family Building Load Analysis

Building: North Entrance

| Unit Quantity | Unit Type | Connected Load - VA | Total KVA |
|---|---|---|---|
| 16 | A1, A2 | 31480 | 503.7 |
| 6 | A3, A4 | 31630 | 189.8 |
| 37 | B1, B3, C | 31720 | 1173.6 |
| 26 | D1, D2 | 32260 | 838.8 |
| 21 | F | 32770 | 688.2 |
| 11 | G, H | 36270 | 399.0 |

| | |
|---|---|
| Total Building KVA | 3793.0 |
| Total Units | 117 |
| Diversity per NEC Table 230.84 | 0.23 |
| Diversified KVA | 872.4 |
| Amps @ 208 V Three Phase | 2423 |
| House Load - Amps | 1000 |
| Total Demand - Amps | 3423 |

## Multi-Family Building Load Analysis

Building: Meter Bank 1A/2A

| Unit Quantity | Unit Type | Connected Load - VA | Total KVA |
|---|---|---|---|
| 0 | A1, A2 | 31480 | 0.0 |
| 0 | A3, A4 | 31630 | 0.0 |
| 8 | B1, B3, C | 31720 | 253.8 |
| 12 | D1, D2 | 32260 | 387.1 |
| 8 | F | 32770 | 262.2 |
| 4 | G, H | 36270 | 145.1 |

| | |
|---|---|
| Total Building KVA | 1048.1 |
| Total Units | 32 |
| Diversity per NEC Table 230.84 | 0.31 |
| Diversified KVA | 324.9 |
| Amps @ 208 V Three Phase | 903 |
| House Load - Amps | 0 |
| Total Demand - Amps | 903 |

## Multi-Family Building Load Analysis

Building: Meter Bank 1B

| Unit Quantity | Unit Type | Connected Load - VA | Total KVA |
|---|---|---|---|
| 3 | A1, A2 | 31480 | 94.4 |
| 0 | A3, A4 | 31630 | 0.0 |
| 16 | B1, B3, C | 31720 | 507.5 |
| 3 | D1, D2 | 32260 | 96.8 |
| 3 | F | 32770 | 98.3 |
| 4 | G, H | 36270 | 145.1 |

| | |
|---|---|
| Total Building KVA | 942.1 |
| Total Units | 29 |
| Diversity per NEC Table 230.84 | 0.33 |
| Diversified KVA | 310.9 |
| Amps @ 208 V Three Phase | 864 |
| House Load - Amps | 0 |
| Total Demand - Amps | 864 |

## Multi-Family Building Load Analysis

Building: Meter Bank 1C/2C

| Unit Quantity | Unit Type | Connected Load - VA | Total KVA |
|---|---|---|---|
| 0 | A1, A2 | 31480 | 0.0 |
| 6 | A3, A4 | 31630 | 189.8 |
| 6 | B1, B3, C | 31720 | 190.3 |
| 7 | D1, D2 | 32260 | 225.8 |
| 10 | F | 32770 | 327.7 |
| 3 | G, H | 36270 | 108.8 |

| | |
|---|---|
| Total Building KVA | 1042.4 |
| Total Units | 32 |
| Diversity per NEC Table 230.84 | 0.31 |
| Diversified KVA | 323.2 |
| Amps @ 208 V Three Phase | 898 |
| House Load - Amps | 0 |
| Total Demand - Amps | 898 |

## Multi-Family Building Load Analysis

Building: Meter Bank 2B

| Unit Quantity | Unit Type | Connected Load - VA | Total KVA |
|---|---|---|---|
| 0 | A1, A2 | 31480 | 0.0 |
| 0 | A3, A4 | 31630 | 0.0 |
| 16 | B1, B3, C | 31720 | 507.5 |
| 3 | D1, D2 | 32260 | 96.8 |
| 3 | F | 32770 | 98.3 |
| 4 | G, H | 36270 | 145.1 |

| | |
|---|---|
| Total Building KVA | 847.7 |
| Total Units | 26 |
| Diversity per NEC Table 230.84 | 0.34 |
| Diversified KVA | 288.2 |
| Amps @ 208 V Three Phase | 801 |
| House Load - Amps | 0 |
| Total Demand - Amps | 801 |

## Multi-Family Building Load Analysis

Building: Meter Bank 1D/2D

| Unit Quantity | Unit Type | Connected Load - VA | Total KVA |
|---|---|---|---|
| 16 | A1, A2 | 31480 | 503.7 |
| 0 | A3, A4 | 31630 | 0.0 |
| 7 | B1, B3, C | 31720 | 222.0 |
| 4 | D1, D2 | 32260 | 129.0 |
| 0 | F | 32770 | 0.0 |
| 0 | G, H | 36270 | 0.0 |

| | |
|---|---|
| Total Building KVA | 854.8 |
| Total Units | 27 |
| Diversity per NEC Table 230.84 | 0.34 |
| Diversified KVA | 290.6 |
| Amps @ 208 V Three Phase | 807 |
| House Load - Amps | 0 |
| Total Demand - Amps | 807 |

## Unit Load Calculation

| Unit: A1, A2 | VA |
|---|---|
| 630 square feet at 3 VA per sq. ft. | 1890 |
| 2 small appliance circuits | 3000 |
| Range | 8000 |
| Microwave | 1000 |
| Washer | 1500 |
| Dryer | 4400 |
| Water Heater | 4500 |
| Dishwasher | 740 |
| Disposer | 850 |
| **Total general load** | 25880 |
| NEC 220-84 Calculation | |
| First 10 KVA at 100% | 10000 |
| Remainder at 40% | 6352 |
| Heater Load 5600 65% | 3640 |
| **Total load** | 19992 |
| Load for unit service Amp @ 208 volt/1 | 96 |
| Connected Load | 31480 |

## Unit Load Calculation

| Unit: A3, A4 | VA |
|---|---|
| 680 square feet at 3 VA per sq. ft. | 2040 |
| 2 small appliance circuits | 3000 |
| Range | 8000 |
| Microwave | 1000 |
| Washer | 1500 |
| Dryer | 4400 |
| Water Heater | 4500 |
| Dishwasher | 740 |
| Disposer | 850 |
| **Total general load** | 26030 |
| NEC 220-84 Calculation | |
| First 10 KVA at 100% | 10000 |
| Remainder at 40% | 6412 |
| Heater Load 5600 65% | 3640 |
| **Total load** | 20052 |
| Load for unit service Amp @ 208 volt/1 | 96 |
| Connected Load | 31630 |

## Unit Load Calculation

| Unit: B1, B2, B3, C | VA |
|---|---|
| 710 square feet at 3 VA per sq. ft. | 2130 |
| 2 small appliance circuits | 3000 |
| Range | 8000 |
| Microwave | 1000 |
| Washer | 1500 |
| Dryer | 4400 |
| Water Heater | 4500 |
| Dishwasher | 740 |
| Disposer | 850 |
| **Total general load** | 26120 |
| NEC 220-84 Calculation | |
| First 10 KVA at 100% | 10000 |
| Remainder at 40% | 6448 |
| Heater Load 5600 65% | 3640 |
| **Total load** | 20088 |
| Load for unit service Amp @ 208 volt/1 | 97 |
| Connected Load | 31720 |

## Unit Load Calculation

| Unit: D1, D2 | VA |
|---|---|
| 890 square feet at 3 VA per sq. ft. | 2670 |
| 2 small appliance circuits | 3000 |
| Range | 8000 |
| Microwave | 1000 |
| Washer | 1500 |
| Dryer | 4400 |
| Water Heater | 4500 |
| Dishwasher | 740 |
| Disposer | 850 |
| **Total general load** | 26660 |
| NEC 220-84 Calculation | |
| First 10 KVA at 100% | 10000 |
| Remainder at 40% | 6664 |
| Heater Load 5600 65% | 3640 |
| **Total load** | 20304 |
| Load for unit service Amp @ 208 volt/1 | 98 |
| Connected Load | 32260 |

## Unit Load Calculation

| Unit: F | VA |
|---|---|
| 1060 square feet at 3 VA per sq. ft. | 3180 |
| 2 small appliance circuits | 3000 |
| Range | 8000 |
| Microwave | 1000 |
| Washer | 1500 |
| Dryer | 4400 |
| Water Heater | 4500 |
| Dishwasher | 740 |
| Disposer | 850 |
| **Total general load** | 27170 |
| NEC 220-84 Calculation | |
| First 10 KVA at 100% | 10000 |
| Remainder at 40% | 6888 |
| Heater Load 5600 65% | 3640 |
| **Total load** | 20508 |
| Load for unit service Amp @ 208 volt/1 | 99 |
| Connected Load | 32770 |

## Unit Load Calculation

| Unit: G, H | VA |
|---|---|
| 1260 square feet at 3 VA per sq. ft. | 3780 |
| 2 small appliance circuits | 3000 |
| Range | 8000 |
| Microwave | 1000 |
| Washer | 1500 |
| Dryer | 4400 |
| Water Heater | 4500 |
| Dishwasher | 740 |
| Disposer | 850 |
| **Total general load** | 27770 |
| NEC 220-84 Calculation | |
| First 10 KVA at 100% | 10000 |
| Remainder at 40% | 7108 |
| Heater Load 8500 65% | 5525 |
| **Total load** | 22633 |
| Load for unit service Amp @ 208 volt/1 | 109 |
| Connected Load | 36270 |

## ELECTRICAL PANEL SCHEDULE

| PANEL: A, B, C | | | POLES: 24 | | MOUNTING: | FLUSH |
|---|---|---|---|---|---|---|
| BUS: 125A. | MAINS: | MLO | VOLTAGE: 120/240 | PHASE/WIRE: | 1 Ph 3 Wire | KAIC:10K |
| CIRCUIT NUMBERS | DESCRIPTION | | | AMPS | POLES | QUANTITY |
| 1, 3 | RANGE | | | 40 | 2 | 1 |
| 5, 7, 13, 15 | WATER HEATER, DRY ER | | | 30 | 2 | 2 |
| 9, 11 | AHU | | | 40 | 2 | 1 |
| 17, 19 | CONDENSING UNIT | | | 20 | 2 | 1 |
| 2, 8 THRU 16 EVEN | LIGHTS AND RECEPTACLES | | | 20 | 1 | 6 |
| 4, 6, 18 | ARC-FAULT LIGHTS AND RECEPTACLES | | | 20 | 1 | 3 |
| 20 | SPARE | | | 20 | 1 | 1 |

## ELECTRICAL PANEL SCHEDULE

| PANEL: D | | | POLES: 24 | | MOUNTING: | FLUSH |
|---|---|---|---|---|---|---|
| BUS: 125A. | MAINS: | MLO | VOLTAGE: 120/240 | PHASE/WIRE: | 1 Ph 3 Wire | KAIC:10K |
| CIRCUIT NUMBERS | DESCRIPTION | | | AMPS | POLES | QUANTITY |
| 1, 3 | RANGE | | | 40 | 2 | 1 |
| 5, 7, 13, 15 | WATER HEATER, DRY ER | | | 30 | 2 | 2 |
| 9, 11 | AHU | | | 40 | 2 | 1 |
| 17, 19 | CONDENSING UNIT | | | 25 | 2 | 1 |
| 2, 8 THRU 16 EVEN | LIGHTS AND RECEPTACLES | | | 20 | 1 | 6 |
| 4, 6, 18 | ARC-FAULT LIGHTS AND RECEPTACLES | | | 20 | 1 | 3 |
| 20 | SPARE | | | 20 | 1 | 1 |

## ELECTRICAL PANEL SCHEDULE

| PANEL: F | | | POLES: 24 | | MOUNTING: | FLUSH |
|---|---|---|---|---|---|---|
| BUS: 125A. | MAINS: | MLO | VOLTAGE: 120/240 | PHASE/WIRE: | 1 Ph 3 Wire | KAIC:10K |
| CIRCUIT NUMBERS | DESCRIPTION | | | AMPS | POLES | QUANTITY |
| 1, 3 | RANGE | | | 40 | 2 | 1 |
| 5, 7, 13, 15 | WATER HEATER, DRY ER | | | 30 | 2 | 2 |
| 9, 11 | AHU | | | 40 | 2 | 1 |
| 17, 19 | CONDENSING UNIT | | | 25 | 2 | 1 |
| 2, 8 THRU 16 EVEN, 22 | LIGHTS AND RECEPTACLES | | | 20 | 1 | 7 |
| 4, 6, 18, 20 | ARC-FAULT LIGHTS AND RECEPTACLES | | | 20 | 1 | 4 |
| 21 | SPARE | | | 20 | 1 | 1 |

## ELECTRICAL PANEL SCHEDULE

| PANEL: G, H | | | POLES: 24 | | MOUNTING: | FLUSH |
|---|---|---|---|---|---|---|
| BUS: 125A. | MAINS: | MLO | VOLTAGE: 120/240 | PHASE/WIRE: | 1 Ph 3 Wire | KAIC:10K |
| CIRCUIT NUMBERS | DESCRIPTION | | | AMPS | POLES | QUANTITY |
| 1, 3 | RANGE | | | 40 | 2 | 1 |
| 5, 7, 13, 15 | WATER HEATER, DRY ER | | | 30 | 2 | 2 |
| 9, 11 | AHU | | | 60 | 2 | 1 |
| 17, 19 | CONDENSING UNIT | | | 30 | 2 | 1 |
| 2, 8 THRU 16 EVEN, 21, 22 | LIGHTS AND RECEPTACLES | | | 20 | 1 | 8 |
| 4, 6, 18, 20 | ARC-FAULT LIGHTS AND RECEPTACLES | | | 20 | 1 | 4 |
| 23 | SPARE | | | 20 | 1 | 1 |

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LSA PROJECT NO. 1904023

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEES SUMMIT, MISSOURI
Date 04/13/2020

STATE OF MISSOURI
RICHARD R. BEARDMORE
PROFESSIONAL ENGINEER
4-3-20

ARCHITECT: TR.i ARCHITECTS
STRUCTURAL ENGINEER: BOB D CAMPBELL & COMPANY
CIVIL ENGINEER: RENAISSANCE INFRASTRUCTURE CONSULTING
GENERAL CONTRACTOR: BRINKMANN CONSTRUCTORS
MECHANICAL ENGINEER: LATIMER SOMMERS & ASSOCIATES
PLUMBING ENGINEER: LATIMER SOMMERS & ASSOCIATES
ELECTRICAL ENGINEER: LATIMER SOMMERS & ASSOCIATES

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DATE: 09.12.19

REVISIONS 8

8 REVISION 3 04.03.20

DWG BY RRB

TR.i PROJECT NO. 18-046

SHEET NO.

E305

ELECTRICAL SCHEDULES

## ELECTRICAL PANEL SCHEDULE

PANEL: SWGR NO. 1 | LOCATION: | MOUNTING: SURFACE
BUS: 5000 A | MAINS: MLO | VOLTAGE: 120/208 | PHASE/WIRE: 3/4 | KAIC: 10

| DESCRIPTION | A (WATTS) | B (WATTS) | C (WATTS) | BRKR | WIRE | POLE | WIRE | BRKR | A (WATTS) | B (WATTS) | C (WATTS) | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RETAIL | 100000 | | | 1200 | | 1 2 | 1000 | | 108000 | | | METER BANK 1C |
| | | 100000 | | | | 3 4 | | | | 108000 | | |
| | | | 100000 | 3P | | 5 6 | 3P | | | | 108000 | |
| METER BANK 1A | 82000 | | | 1000 | | 7 8 | 1000 | | 97000 | | | METER BANK 1D |
| | | 82000 | | | | 9 10 | | | | 97000 | | |
| | | | 82000 | 3P | | 11 12 | 3P | | | | 97000 | |
| METER BANK 1B | 104000 | | | 1000 | | 13 14 | 1000 | | 143180 | | | HOUSE PANEL DP-S |
| | | 104000 | | | | 15 16 | | | | 136930 | | |
| | | | 104000 | 3P | | 17 18 | 3P | | | | 125400 | |
| SPARE | | | | | | 19 20 | | | | | | |
| SPARE | | | | | | 21 22 | | | | | | SPACE |
| SPARE | | | | | | 23 24 | | | | | | SPACE |
| SPARE | | | | | | 25 26 | | | | | | SPACE |
| SPARE | | | | | | 27 28 | | | | | | SPACE |
| SPARE | | | | | 20 | 12 29 30 | | | | | | SPACE |
| CONNECTED LOAD-WATTS | 634180 | 627930 | 616400 | | | | | | FEEDER LOAD-WATTS | | | |
| CONNECTED LOAD-AMPS | 5285 | 5233 | 5137 | | | | | | FEEDER LOAD-AMPS | | | |
| CONTINUOUS LOAD | | | | | | | | | FEEDER WIRE | | | |
| RECEPTACLES | | | | | | | | | FEEDER OCP | | | |
| NON-CONTINUOUS LOAD | | | | | | | | | | | | |
| OTHER DIVERSIFIED LOAD | | | | @ | 0.5 | | | | | | | |

## ELECTRICAL PANEL SCHEDULE

PANEL: SWGR NO. 2 | LOCATION: | MOUNTING: SURFACE
BUS: 5000 A | MAINS: MLO | VOLTAGE: 120/208 | PHASE/WIRE: 3/4 | KAIC: 10

| DESCRIPTION | A (WATTS) | B (WATTS) | C (WATTS) | BRKR | WIRE | POLE | WIRE | BRKR | A (WATTS) | B (WATTS) | C (WATTS) | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RETAIL | 100000 | | | 1200 | | 1 2 | 1000 | | 108000 | | | METER BANK 1C |
| | | 100000 | | | | 3 4 | | | | 108000 | | |
| | | | 100000 | 3P | | 5 6 | 3P | | | | 108000 | |
| METER BANK 1A | 82000 | | | 1000 | | 7 8 | 1000 | | 97000 | | | METER BANK 1D |
| | | 82000 | | | | 9 10 | | | | 97000 | | |
| | | | 82000 | 3P | | 11 12 | 3P | | | | 97000 | |
| METER BANK 1B | 104000 | | | 1000 | | 13 14 | 1000 | | 149720 | | | HOUSE PANEL DP-N |
| | | 104000 | | | | 15 16 | | | | 146580 | | |
| | | | 104000 | 3P | | 17 18 | 3P | | | | 128100 | |
| SPARE | | | | | | 19 20 | | | | | | |
| SPARE | | | | | | 21 22 | | | | | | SPACE |
| SPARE | | | | | | 23 24 | | | | | | SPACE |
| SPARE | | | | | | 25 26 | | | | | | SPACE |
| SPARE | | | | | | 27 28 | | | | | | SPACE |
| SPARE | | | | | 20 | 12 29 30 | | | | | | SPACE |
| CONNECTED LOAD-WATTS | 640720 | 637580 | 619100 | | | | | | FEEDER LOAD-WATTS | | | |
| CONNECTED LOAD-AMPS | 5339 | 5313 | 5159 | | | | | | FEEDER LOAD-AMPS | | | |
| CONTINUOUS LOAD | | | | | | | | | FEEDER WIRE | | | |
| RECEPTACLES | | | | | | | | | FEEDER OCP | | | |
| NON-CONTINUOUS LOAD | | | | | | | | | | | | |
| OTHER DIVERSIFIED LOAD | | | | @ | 0.5 | | | | | | | |

## ELECTRICAL PANEL SCHEDULE

PANEL: DP-S | LOCATION: | MOUNTING: SURFACE
BUS: 1000 A | MAINS: MLO | VOLTAGE: 120/208 | PHASE/WIRE: 3/4 | KAIC: 42

| DESCRIPTION | A (WATTS) | B (WATTS) | C (WATTS) | BRKR | WIRE | POLE | WIRE | BRKR | A (WATTS) | B (WATTS) | C (WATTS) | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PANEL B1 | 24700 | | | 400 | | 1 2 | | 400 | 30400 | | | PANEL 1-1A |
| | | 23900 | | | | 3 4 | | | | 29500 | | |
| | | | 22700 | 3P | | 5 6 | | 3P | | | 27000 | |
| PANEL B-1A | 30000 | | | 225 | | 7 8 | | 225 | 28400 | | | PANEL 1-1B |
| | | 25550 | | | | 9 10 | | | | 30200 | | |
| | | | 25500 | 3P | | 11 12 | | 3P | | | 25400 | |
| PANEL 1-1C | 29680 | | | 225 | | 13 14 | | | | | | 200 A SPACE |
| | | 27780 | | | | 15 16 | | | | | | |
| | | | 24800 | 3P | | 17 18 | | | | | | |
| | | | | | | 19 20 | | | | | | |
| | | | | | | 21 22 | | | | | | |
| | | | | | | 23 24 | | | | | | |
| CONNECTED LOAD-WATTS | 143180 | 136930 | 125400 | | | | | | FEEDER LOAD-WATTS | | | |
| CONNECTED LOAD-AMPS | 1193 | 1141 | 1045 | | | | | | FEEDER LOAD-AMPS | | | |
| CONTINUOUS LOAD | | | | | | | | | FEEDER WIRE | | | |
| RECEPTACLES | | | | | | | | | FEEDER OCP | | | 1000 A |
| NON-CONTINUOUS LOAD | | | | | | | | | | | | |
| OTHER DIVERSIFIED LOAD | | | | @ | 0.5 | | | | | | | |

## ELECTRICAL PANEL SCHEDULE

PANEL: B1 | LOCATION: | MOUNTING: SURFACE
BUS: 400 A | MAINS: MLO | VOLTAGE: 120/208 | PHASE/WIRE: 3/4 | KAIC: 10

| DESCRIPTION | A (WATTS) | B (WATTS) | C (WATTS) | BRKR | WIRE | POLE | WIRE | BRKR | A (WATTS) | B (WATTS) | C (WATTS) | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EUH-B | 5100 | | | 60 | 8 | 1 2 | 12 | 20 | 1000 | | | OHD |
| | | 5100 | | | 8 | 3 4 | 12 | | | 1000 | | |
| | | | 5100 | 3P | 8 | 5 6 | 12 | 3P | | | 1000 | |
| EUH-B | 5100 | | | 60 | 8 | 7 8 | 6 | 90 | 5800 | | | EF-G1 |
| | | 5100 | | | 8 | 9 10 | 6 | | | 5800 | | |
| | | | 5100 | 3P | 8 | 11 12 | 6 | 3P | | | 5800 | |
| EUH-B | 5100 | | | 60 | 8 | 13 14 | 12 | 20 | 1200 | | | LIGHTING |
| | | 5100 | | | 8 | 15 16 | 12 | 20 | | 1200 | | LIGHTING |
| | | | 5100 | 3P | 8 | 17 18 | 12 | 20 | | | 600 | LTS/RECEPTS |
| RECEPTACLES | 600 | | | 20 | 12 | 19 20 | 12 | 20 | 800 | | | LTS/RECEPTS |
| RECEPTACLES | | 600 | | 20 | 12 | 21 22 | | | | | | |
| SPARE | | | | 20 | | 23 24 | | | | | | SPACE |
| SPARE | | | | 20 | | 25 26 | | | | | | SPACE |
| SPARE | | | | 20 | | 27 28 | | | | | | SPACE |
| SPARE | | | | 20 | | 29 30 | | | | | | SPACE |
| SPARE | | | | 20 | | 31 32 | | | | | | SPACE |
| SPARE | | | | 20 | | 33 34 | | | | | | SPACE |
| SPARE | | | | 20 | | 35 36 | | | | | | SPACE |
| SPARE | | | | 20 | | 37 38 | | | | | | SPACE |
| SPARE | | | | 20 | | 39 40 | | | | | | SPACE |
| SPARE | | | | 20 | | 41 42 | | | | | | SPACE |
| CONNECTED LOAD-WATTS | 24700 | 23900 | 22700 | | | | | | FEEDER LOAD-WATTS | | | |
| CONNECTED LOAD-AMPS | 206 | 199 | 189 | | | | | | FEEDER LOAD-AMPS | | | |
| CONTINUOUS LOAD | | | | | | | | | FEEDER WIRE | | | |
| RECEPTACLES | | | | | | | | | FEEDER OCP | | | 400 A |
| NON-CONTINUOUS LOAD | | | | | | | | | | | | |
| OTHER DIVERSIFIED LOAD | | | | @ | 0.5 | | | | | | | |

## ELECTRICAL PANEL SCHEDULE

PANEL: B1A | LOCATION: | MOUNTING: SURFACE
BUS: 225 A | MAINS: MLO | VOLTAGE: 120/208 | PHASE/WIRE: 3/4 | KAIC: 10

| DESCRIPTION | A (WATTS) | B (WATTS) | C (WATTS) | BRKR | WIRE | POLE | WIRE | BRKR | A (WATTS) | B (WATTS) | C (WATTS) | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EUH-B | 5100 | | | 60 | 8 | 1 2 | 100 | | 3800 | | | PANEL P |
| | | 5100 | | | 8 | 3 4 | | | | 4100 | | |
| | | | 5100 | 3P | 8 | 5 6 | 3P | | | | 3200 | |
| EUH-B | 5100 | | | 60 | 8 | 7 8 | 8 | 60 | 4000 | | | CAR CHARGER |
| | | 5100 | | | 8 | 9 10 | 8 | 2P | | 4000 | | |
| | | | 5100 | 3P | 8 | 11 12 | 8 | 60 | | | 4000 | CAR CHARGER |
| EUH-B | 5100 | | | 60 | 8 | 13 14 | 8 | 2P | 4000 | | | |
| | | 5100 | | | 8 | 15 16 | 12 | 20 | | 1500 | | EUH-A |
| | | | 5100 | 3P | 8 | 17 18 | 12 | 2P | | | 1500 | |
| ELEV PIT | 200 | | | 20 | 12 | 19 20 | 12 | 20 | 1200 | | | LIGHTING |
| SUMP PUMP | | 600 | | 20 | 12 | 21 22 | 12 | 20 | | 50 | | ELEVATOR PIT LTG |
| EUH-C | | | 1500 | 20 | 12 | 23 24 | | | | | | SPACE |
| EUH-C | 1500 | | | 20 | 12 | 25 26 | | | | | | SPACE |
| | | | | 20 | | 27 28 | | | | | | SPACE |
| | | | | 20 | | 29 30 | | | | | | SPACE |
| SPARE | | | | 20 | | 31 32 | | | | | | SPACE |
| SPARE | | | | 20 | | 33 34 | | | | | | SPACE |
| SPARE | | | | 20 | | 35 36 | | | | | | SPACE |
| SPARE | | | | 20 | | 37 38 | | | | | | SPACE |
| SPARE | | | | 20 | | 39 40 | | | | | | SPACE |
| SPARE | | | | 20 | | 41 42 | | | | | | SPACE |
| CONNECTED LOAD-WATTS | 30000 | 25550 | 25500 | | | | | | FEEDER LOAD-WATTS | | | |
| CONNECTED LOAD-AMPS | 250 | 213 | 213 | | | | | | FEEDER LOAD-AMPS | | | |
| CONTINUOUS LOAD | | | | | | | | | FEEDER WIRE | | | |
| RECEPTACLES | | | | | | | | | FEEDER OCP | | | 225 A |
| NON-CONTINUOUS LOAD | | | | | | | | | | | | |
| OTHER DIVERSIFIED LOAD | | | | @ | 0.5 | | | | | | | |

## ELECTRICAL PANEL SCHEDULE

PANEL: P | LOCATION: | MOUNTING: SURFACE
BUS: 225 A | MAINS: MLO | VOLTAGE: 120/208 | PHASE/WIRE: 3/4 | KAIC: 10

| DESCRIPTION | A (WATTS) | B (WATTS) | C (WATTS) | BRKR | WIRE | POLE | WIRE | BRKR | A (WATTS) | B (WATTS) | C (WATTS) | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PUMP | 2200 | | | 35 | 10 | 1 2 | 12 | 20 | 300 | | | HEATERS |
| 5 HP VERIFY | | 2200 | | 2P | 10 | 3 4 | 12 | 20 | | 600 | | LTS/RECEPTS |
| PUMP | | | 1300 | 20 | 12 | 5 6 | 12 | 20 | | | 600 | RECEPTACLES |
| 3 HP VERIFY | 1300 | | | 2P | 12 | 7 8 | | 20 | | | | SPARE |
| PUMP | | 1300 | | 20 | 12 | 9 10 | | 20 | | | | SPARE |
| 3 HP VERIFY | | | 1300 | 2P | 12 | 11 12 | | 20 | | | | SPARE |
| SPACE | | | | | | 13 14 | | | | | | SPACE |
| SPACE | | | | | | 15 16 | | | | | | SPACE |
| SPACE | | | | | | 17 18 | | | | | | SPACE |
| SPACE | | | | | | 19 20 | | | | | | SPACE |
| SPACE | | | | | | 21 22 | | | | | | SPACE |
| SPACE | | | | | | 23 24 | | | | | | SPACE |
| SPACE | | | | | | 25 26 | | | | | | SPACE |
| SPACE | | | | | | 27 28 | | | | | | SPACE |
| SPACE | | | | | 20 | 12 29 30 | | | | | | SPACE |
| CONNECTED LOAD-WATTS | 3800 | 4100 | 3200 | | | | | | FEEDER LOAD-WATTS | | | |
| CONNECTED LOAD-AMPS | 32 | 34 | 27 | | | | | | FEEDER LOAD-AMPS | | | |
| CONTINUOUS LOAD | | | | | | | | | FEEDER WIRE | | | |
| RECEPTACLES | | | | | | | | | FEEDER OCP | | | 100 A |
| NON-CONTINUOUS LOAD | | | | | | | | | | | | |
| OTHER DIVERSIFIED LOAD | | | | @ | 0.5 | | | | | | | |

## ELECTRICAL PANEL SCHEDULE

PANEL: 1-1A | LOCATION: | MOUNTING: SURFACE
BUS: 400 A | MAINS: MLO | VOLTAGE: 120/208 | PHASE/WIRE: 3/4 | KAIC: 10

| DESCRIPTION | A (WATTS) | B (WATTS) | C (WATTS) | BRKR | WIRE | POLE | WIRE | BRKR | A (WATTS) | B (WATTS) | C (WATTS) | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EUH-A | 1500 | | | 20 | 12 | 1 2 | 12 | 20 | 1000 | | | LIGHTING |
| | | 1500 | | | 12 | 3 4 | 12 | 20 | | 1000 | | LIGHTING |
| EUH-B2 | | | 2500 | 30 | 10 | 5 6 | 12 | 20 | | | 1000 | LIGHTING |
| AHU-1/1 | 2500 | | | 2P | | 10 7 8 | 12 | 20 | 600 | | | LTS/RECEPTS |
| | | 4600 | | 50 | 8 | 9 10 | 12 | 20 | | 600 | | LTS/RECEPTS |
| | | | 4600 | 2P | 8 | 11 12 | 12 | 20 | | | 600 | LTS/RECEPTS |
| RECEPTACLES | 800 | | | 20 | 12 | 13 14 | 12 | 20 | 500 | | | LTS/RECEPTS |
| RECEPTACLES | | 800 | | 20 | 12 | 15 16 | 12 | 20 | | 600 | | LTS/RECEPTS |
| RECEPTACLES | | | 800 | 20 | 12 | 17 18 | 12 | 20 | | | 500 | LTS/RECEPTS |
| RECEPTACLES | 800 | | | 20 | 12 | 19 20 | 12 | 20 | 1200 | | | EXTERIOR LIGHTING |
| LTS/RECEPTS | | 800 | | 20 | 12 | 21 22 | 12 | 20 | | 1500 | | EUH-A |
| OHD | | | 1500 | 20 | 12 | 23 24 | 12 | 2P | | | 1500 | |
| AHU-2/1 | 4800 | | | 50 | 8 | 25 26 | 12 | 20 | 800 | | | LTS/RECEPTS |
| | | 4600 | | 2P | 8 | 27 28 | 12 | 20 | | 1000 | | LIGHTING |
| LTS/RECEPTS | | | 1000 | 20 | 12 | 29 30 | | | | | | SPACE |
| SPARE | | | | 20 | | 31 32 | | | | | | SPACE |
| SPARE | | | | 20 | | 33 34 | | | | | | SPACE |
| SPARE | | | | 20 | | 35 36 | | | | | | SPACE |
| SPARE | | | | 20 | | 37 38 | | 125 | 15900 | | | PANEL 1-4A |
| SPARE | | | | 20 | | 39 40 | | | | 12100 | | |
| SPARE | | | | 20 | | 41 42 | | 3P | | | 12800 | |
| CONNECTED LOAD-WATTS | 30400 | 29600 | 27000 | | | | | | FEEDER LOAD-WATTS | | | |
| CONNECTED LOAD-AMPS | 253 | 246 | 225 | | | | | | FEEDER LOAD-AMPS | | | |
| CONTINUOUS LOAD | | | | | | | | | FEEDER WIRE | | | |
| RECEPTACLES | | | | | | | | | FEEDER OCP | | | 400 A |
| NON-CONTINUOUS LOAD | | | | | | | | | | | | |
| OTHER DIVERSIFIED LOAD | | | | @ | 0.5 | | | | | | | |

## ELECTRICAL PANEL SCHEDULE

PANEL: 1-1B | LOCATION: | MOUNTING: SURFACE
BUS: 225 A | MAINS: MLO | VOLTAGE: 120/208 | PHASE/WIRE: 3/4 | KAIC: 10

| DESCRIPTION | A (WATTS) | B (WATTS) | C (WATTS) | BRKR | WIRE | POLE | WIRE | BRKR | A (WATTS) | B (WATTS) | C (WATTS) | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LTS/RECEPTS | 400 | | | | | 1 2 | 12 | 20 | 1000 | | | LIGHTING |
| AHU-1/2 | | 4800 | | 50 | 8 | 3 4 | 12 | 20 | | 1000 | | LIGHTING |
| | | | 4600 | 3P | 8 | 5 6 | 12 | 20 | | | 400 | RECEPTACLES |
| AHU-2/2 | 4600 | | | 50 | 8 | 7 8 | 12 | 20 | 800 | | | RECEPTACLES |
| | | 4600 | | 3P | 8 | 9 10 | | | | 200 | | RECEPTACLES |
| RECEPTACLES | | 800 | | | 8 | 11 12 | | | | | | |
| COURTYARD | 1000 | | | 20 | 12 | 13 14 | 12 | 20 | | | | |
| COURTYARD | | 1000 | | 20 | 12 | 15 16 | 12 | 20 | | | | |
| COURTYARD | | | 600 | 20 | 12 | 17 18 | 12 | 20 | | | | |
| COURTYARD | 200 | | | 20 | 12 | 19 20 | 12 | 20 | | | | |
| COURTYARD | | 400 | | 20 | 12 | 21 22 | | | | | | SPACE |
| RECEPTACLES | | | 800 | 20 | 12 | 23 24 | | | | | | SPACE |
| | | | | 20 | 12 | 25 26 | | | | | | SPACE |
| | | | | 20 | 12 | 27 28 | | | | | | SPACE |
| | | | | 20 | 12 | 29 30 | | | | | | SPACE |
| SPARE | | | | 20 | | 31 32 | | | | | | SPACE |
| SPARE | | | | 20 | | 33 34 | | | | | | SPACE |
| SPARE | | | | 20 | | 35 36 | | | | | | SPACE |
| SPARE | | | | 20 | | 37 38 | | | 20200 | | | PANEL 1-4B |
| SPARE | | | | 20 | | 39 40 | | | | 18000 | | |
| SPARE | | | | 20 | | 41 42 | | 3P | | | 18000 | |
| CONNECTED LOAD-WATTS | 28400 | 30200 | 25400 | | | | | | FEEDER LOAD-WATTS | | | |
| CONNECTED LOAD-AMPS | 237 | 252 | 212 | | | | | | FEEDER LOAD-AMPS | | | |
| CONTINUOUS LOAD | | | | | | | | | FEEDER WIRE | | | |
| RECEPTACLES | | | | | | | | | FEEDER OCP | | | 225 A |
| NON-CONTINUOUS LOAD | | | | | | | | | | | | |
| OTHER DIVERSIFIED LOAD | | | | @ | 0.5 | | | | | | | |

## ELECTRICAL PANEL SCHEDULE

PANEL: 1-1C | LOCATION: | MOUNTING: SURFACE
BUS: 225 A | MAINS: MLO | VOLTAGE: 120/208 | PHASE/WIRE: 3/4 | KAIC: 10

| DESCRIPTION | A (WATTS) | B (WATTS) | C (WATTS) | BRKR | WIRE | POLE | WIRE | BRKR | A (WATTS) | B (WATTS) | C (WATTS) | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FIRE ALARM PANEL - HLO | 800 | | | | | 1 2 | 6 | 70 | 6600 | | | RTU-1 |
| LTS/RECPTS | | 400 | | | | 3 4 | 6 | 2P | | 6600 | | |
| RECEPTACLES | | | 600 | | | 5 6 | 6 | 70 | | | 6600 | RTU-2 |
| RECEPTACLES | 1000 | | | | | 7 8 | 6 | 2P | 6600 | | | |
| DRINKING FOUNTAIN | | 600 | | 20 | 12 | 9 10 | 6 | 70 | | 6600 | | RTU-3 |
| RECEPTACLES | | | 1000 | | | 11 12 | 6 | 2P | | | 6600 | |
| RECEPTACLES | 1000 | | | 20 | 12 | 13 14 | 6 | 70 | 6600 | | | RTU-4 |
| RECEPTACLES | | 1200 | | 20 | 12 | 15 16 | 6 | 2P | | 6600 | | |
| RECEPTACLES | | | 600 | 20 | 12 | 17 18 | 12 | 20 | | | 1500 | EUH-D |
| RECEPTACLES | 600 | | | 20 | 12 | 19 20 | 12 | 2P | 1500 | | | |
| RECEPTACLES | | 600 | | 20 | 12 | 21 22 | 12 | 20 | | 600 | | RECEPTACLES |
| RECEPTACLES | | | 1200 | 20 | 12 | 23 24 | 12 | 20 | | | 800 | RECEPTACLES |
| RECEPTACLES | 600 | | | 20 | 12 | 25 26 | 12 | 20 | 800 | | | RECEPTACLES |
| | | | | | | 27 28 | 12 | 20 | | 1000 | | RECEPTACLES |
| WATER HEATER | | | 1500 | 20 | 12 | 29 30 | 12 | 20 | | | 800 | RECEPTACLES |
| LIGHTING | 600 | | | 20 | | 31 32 | 12 | 20 | 600 | | | LIGHTING |
| LIGHTING | | 600 | | 20 | | 33 34 | 12 | 20 | | 600 | | LIGHTING |
| LIGHTING | | | 600 | 20 | | 35 36 | 12 | 20 | | | 1500 | WATER HEATER |
| WH-CL3 | 1980 | | | 30 | 10 | 37 38 | 12 | 20 | 400 | | | IT EQUIP |
| | | 1980 | | 2P | 10 | 39 40 | 12 | 20 | | 400 | | IT EQUIP |
| LIGHTING | | | 1500 | 20 | 12 | 41 42 | | | | | | SPACE |
| CONNECTED LOAD-WATTS | 29680 | 27780 | 24800 | | | | | | FEEDER LOAD-WATTS | | | |
| CONNECTED LOAD-AMPS | 247 | 232 | 207 | | | | | | FEEDER LOAD-AMPS | | | |
| CONTINUOUS LOAD | | | | | | | | | FEEDER WIRE | | | |
| RECEPTACLES | | | | | | | | | FEEDER OCP | | | 225 A |
| NON-CONTINUOUS LOAD | | | | | | | | | | | | |
| OTHER DIVERSIFIED LOAD | | | | @ | 0.5 | | | | | | | |

## ELECTRICAL PANEL SCHEDULE

PANEL: 1-4A | LOCATION: | MOUNTING: SURFACE
BUS: 225 A | MAINS: MLO | VOLTAGE: 120/208 | PHASE/WIRE: 3/4 | KAIC: 10

| DESCRIPTION | A (WATTS) | B (WATTS) | C (WATTS) | BRKR | WIRE | POLE | WIRE | BRKR | A (WATTS) | B (WATTS) | C (WATTS) | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AHU-3/1 | 4800 | | | 50 | 8 | 1 2 | 12 | 20 | 400 | | | LTS/RECEPTS |
| | | 4800 | | 2P | 8 | 3 4 | 12 | 20 | | 1000 | | LIGHTING |
| AHU-4/1 | | | 4800 | 50 | 8 | 5 6 | 10 | 25 | | | 1700 | CU-3/1 |
| | 4800 | | | 2P | 8 | 7 8 | 10 | 2P | 1700 | | | |
| DSS-4/1 | | 1900 | | 25 | 10 | 9 10 | 10 | 25 | | 1700 | | CU-4/1 |
| | | | 1900 | 2P | 10 | 11 12 | 10 | 2P | | | 1700 | |
| CU-1/1 | 1700 | | | 25 | 10 | 13 14 | 12 | 20 | 800 | | | RECEPTACLES |
| | | 1700 | | 2P | 10 | 15 16 | | 20 | | | | |
| CU-2/1 | | | 1700 | 25 | 12 | 17 18 | | 20 | | | | |
| | 1700 | | | 2P | 12 | 19 20 | | 20 | | | | |
| RECEPTACLES | | 1000 | | 20 | 12 | 21 22 | | | | | | SPACE |
| LIGHTING | | | 1000 | 20 | 12 | 23 24 | | | | | | SPACE |
| | | | | | | 25 26 | | | | | | SPACE |
| | | | | | | 27 28 | | | | | | SPACE |
| | | | | | | 29 30 | | | | | | SPACE |
| SPARE | | | | 20 | | 31 32 | | | | | | SPACE |
| SPARE | | | | 20 | | 33 34 | | | | | | SPACE |
| SPARE | | | | 20 | | 35 36 | | | | | | SPACE |
| SPARE | | | | 20 | | 37 38 | | | | | | SPACE |
| SPARE | | | | 20 | | 39 40 | | | | | | SPACE |
| SPARE | | | | 20 | | 41 42 | | | | | | SPACE |
| CONNECTED LOAD-WATTS | 15900 | 12100 | 12800 | | | | | | FEEDER LOAD-WATTS | | | |
| CONNECTED LOAD-AMPS | 133 | 101 | 107 | | | | | | FEEDER LOAD-AMPS | | | |
| CONTINUOUS LOAD | | | | | | | | | FEEDER WIRE | | | |
| RECEPTACLES | | | | | | | | | FEEDER OCP | | | 125 A |
| NON-CONTINUOUS LOAD | | | | | | | | | | | | |
| OTHER DIVERSIFIED LOAD | | | | @ | 0.5 | | | | | | | |

## ELECTRICAL PANEL SCHEDULE

PANEL: 1-4B | LOCATION: | MOUNTING: SURFACE
BUS: 225 A | MAINS: MLO | VOLTAGE: 120/208 | PHASE/WIRE: 3/4 | KAIC: 10

| DESCRIPTION | A (WATTS) | B (WATTS) | C (WATTS) | BRKR | WIRE | POLE | WIRE | BRKR | A (WATTS) | B (WATTS) | C (WATTS) | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AHU-3/2 | 4800 | | | 50 | 8 | 1 2 | 12 | 20 | 1000 | | | LIGHTING |
| | | 4800 | | 2P | 8 | 3 4 | 12 | 20 | | 1000 | | LIGHTING |
| AHU-4/2 | | | 4800 | 50 | 8 | 5 6 | 12 | 20 | | | 400 | RECEPTACLES |
| | 4800 | | | 2P | 8 | 7 8 | 12 | 20 | 400 | | | RECEPTACLES |
| CU-4/2 | | 1700 | | 50 | 8 | 9 10 | 12 | 20 | | 400 | | ELEVATOR CAR |
| | | | 1700 | 2P | 8 | 11 12 | 12 | 20 | | | 200 | HOISTWAY |
| CU-1/2 | 1700 | | | 20 | 12 | 13 14 | 6 | 60 | 4800 | | | ELEVATOR |
| | | 1700 | | 20 | 12 | 15 16 | 6 | | | 4800 | | |
| CU-2/2 | | | 1700 | 20 | 12 | 17 18 | 6 | 3P | | | 4800 | |
| | 1700 | | | 20 | 12 | 19 20 | 12 | 20 | 1000 | | | RECEPTACLES |
| CU-3/2 | | 1700 | | 20 | 12 | 21 22 | 10 | 25 | | 1900 | | DSS-4/2 |
| | | | 1700 | 20 | 12 | 23 24 | 10 | 2P | | | 1900 | |
| A | | | | | | 25 26 | | | | | | SPACE |
| | | | | | | 27 28 | | | | | | SPACE |
| | | | | | | 29 30 | 12 | 20 | | | 800 | RECEPTACLES |
| | | | | | | 31 32 | | | | | | SPACE |
| | | | | | | 33 34 | | | | | | SPACE |
| | | | | | | 35 36 | | | | | | SPACE |
| SPARE | | | | 20 | | 37 38 | | | | | | SPACE |
| SPARE | | | | 20 | | 39 40 | | | | | | SPACE |
| SPARE | | | | 20 | | 41 42 | | | | | | SPACE |
| CONNECTED LOAD-WATTS | 20200 | 18000 | 18000 | | | | | | FEEDER LOAD-WATTS | | | |
| CONNECTED LOAD-AMPS | 168 | 150 | 150 | | | | | | FEEDER LOAD-AMPS | | | |
| CONTINUOUS LOAD | | | | | | | | | FEEDER WIRE | | | |
| RECEPTACLES | | | | | | | | | FEEDER OCP | | | 150 A |
| NON-CONTINUOUS LOAD | | | | | | | | | | | | |
| OTHER DIVERSIFIED LOAD | | | | @ | 0.5 | | | | | | | |

## ELECTRICAL PANEL SCHEDULE

PANEL: DP-N | LOCATION: | MOUNTING: SURFACE
BUS: 1000 A | MAINS: MLO | VOLTAGE: 120/208 | PHASE/WIRE: 3/4 | KAIC: 42

| DESCRIPTION | A (WATTS) | B (WATTS) | C (WATTS) | BRKR | WIRE | POLE | WIRE | BRKR | A (WATTS) | B (WATTS) | C (WATTS) | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PANEL B2 | 24900 | | | 400 | | 1 2 | | 400 | 29600 | | | PANEL 2-1A |
| | | 24900 | | | | 3 4 | | | | 30500 | | |
| | | | 23700 | 3P | | 5 6 | | 3P | | | 27000 | |
| PANEL B-2A | 29040 | | | 225 | | 7 8 | | 225 | 47500 | | | PANEL 2-1B |
| | | 27800 | | | | 9 10 | | | | 47900 | | |
| | | | 29400 | 3P | | 11 12 | | 3P | | | 38400 | |
| PANEL 2-1C | 18680 | | | 225 | | 13 14 | | | | | | 200 A SPACE |
| | | 15480 | | | | 15 16 | | | | | | |
| | | | 9600 | 3P | | 17 18 | | | | | | |
| | | | | | | 19 20 | | | | | | |
| | | | | | | 21 22 | | | | | | |
| | | | | | | 23 24 | | | | | | |
| CONNECTED LOAD-WATTS | 149720 | 146580 | 128100 | | | | | | FEEDER LOAD-WATTS | | | |
| CONNECTED LOAD-AMPS | 1248 | 1222 | 1068 | | | | | | FEEDER LOAD-AMPS | | | |
| CONTINUOUS LOAD | | | | | | | | | FEEDER WIRE | | | |
| RECEPTACLES | | | | | | | | | FEEDER OCP | | | 1000 A |
| NON-CONTINUOUS LOAD | | | | | | | | | | | | |
| OTHER DIVERSIFIED LOAD | | | | @ | 0.5 | | | | | | | |

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
RICHARD R. BEARDMORE
NUMBER PE-2000027255
PROFESSIONAL ENGINEER
4-3-20

ARCHITECT: TR.i ARCHITECTS
STRUCTURAL ENGINEER: BOB D CAMPBELL & COMPANY
CIVIL ENGINEER: RENAISSANCE INFRASTRUCTURE CONSULTING
GENERAL CONTRACTOR: BRINKMANN CONSTRUCTORS
MECHANICAL ENGINEER: LATIMER SOMMERS & ASSOCIATES
PLUMBING ENGINEER: LATIMER SOMMERS & ASSOCIATES
ELECTRICAL ENGINEER: LATIMER SOMMERS & ASSOCIATES

Pearl COMPANIES

# Summit at West Pryor

TR.i ARCHITECTS

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DATE: 09.12.19

REVISIONS

| | | |
|---|---|---|
| 1 | PERMIT COMMENTS | 09.06.19 |
| 6 | REVISION 1 | 12.20.19 |
| 8 | REVISION 3 | 04.03.20 |

DWG BY: RRB
TR.i PROJECT NO.: 18-046
SHEET NO.: E306
ELECTRICAL SCHEDULES

LS&A Latimer Sommers & Associates, P.A.
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Email: lsapa@lsapa.com
LSA PROJECT NO. 1904023

## ELECTRICAL PANEL SCHEDULE

PANEL: B2 | LOCATION: | MOUNTING: SURFACE
BUS: 400 A | MAINS: MLO | VOLTAGE: 120/208 | PHASE/WIRE: 3/4 | KAIC: 10

| DESCRIPTION | A | B | C | BRKR | WIRE | POLE | WIRE | BRKR | A | B | C | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EUH-B | 5100 | | | 60 | 8 | 1 2 | | 225 | 1000 | | | PANEL B2A |
| | | 5100 | | | 8 | 3 4 | | | | 1000 | | |
| | | | 5100 | 3P | 8 | 5 6 | | 3P | | | 1000 | |
| EUH-B | 5100 | | | 60 | 8 | 7 8 | 6 | 90 | 5800 | | | EF-G2 |
| | | 5100 | | | 8 | 9 10 | 6 | | | 5800 | | |
| | | | 5100 | 3P | 8 | 11 12 | 6 | 3P | | | 5800 | |
| EUH-B | 5100 | | | 60 | 8 | 13 14 | 12 | 20 | 1200 | | | LIGHTING |
| | | 5100 | | | 8 | 15 16 | 12 | 20 | | 1200 | | LIGHTING |
| | | | 5100 | 3P | 8 | 17 18 | 12 | 20 | | | 600 | LTS/RECEPTS |
| RECEPTACLES | 600 | | | 20 | 12 | 19 20 | 12 | 20 | 1000 | | | OHD |
| RECEPTACLES | | 600 | | 20 | 12 | 21 22 | 12 | | | 1000 | | |
| SPARE | | | | 20 | | 23 24 | 12 | 3P | | | 1000 | |
| SPARE | | | | 20 | | 25 26 | | | | | | SPACE |
| SPARE | | | | 20 | | 27 28 | | | | | | SPACE |
| SPARE | | | | 20 | | 29 30 | | | | | | SPACE |
| SPARE | | | | 20 | | 31 32 | | | | | | SPACE |
| SPARE | | | | 20 | | 33 34 | | | | | | SPACE |
| SPARE | | | | 20 | | 35 36 | | | | | | SPACE |
| SPARE | | | | 20 | | 37 38 | | | | | | SPACE |
| SPARE | | | | 20 | | 39 40 | | | | | | SPACE |
| SPARE | | | | 20 | | 41 42 | | | | | | SPACE |
| CONNECTED LOAD-WATTS | 24900 | 24900 | 23700 | | | | | | FEEDER LOAD-WATTS | | | |
| CONNECTED LOAD-AMPS | 208 | 208 | 198 | | | | | | FEEDER LOAD-AMPS | | | |
| CONTINUOUS LOAD | | | | | | | | | FEEDER WIRE | | | |
| RECEPTACLES | | | | | | | | | FEEDER OCP | | | 400 A |
| NON-CONTINUOUS LOAD | | | | | | | | | | | | |
| OTHER DIVERSIFIED LOAD | | | | @ | 0.5 | | | | | | | |

## ELECTRICAL PANEL SCHEDULE

PANEL: B2A | LOCATION: | MOUNTING: SURFACE
BUS: 225 A | MAINS: MLO | VOLTAGE: 120/208 | PHASE/WIRE: 3/4 | KAIC: 10

| DESCRIPTION | A | B | C | BRKR | WIRE | POLE | WIRE | BRKR | A | B | C | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EUH-B | 5100 | | | 60 | 8 | 1 2 | 12 | 20 | 1200 | | | LIGHTING |
| | | 5100 | | | 8 | 3 4 | 8 | 60 | | 4000 | | CAR CHARGER |
| | | | 5100 | 3P | 8 | 5 6 | 8 | 2P | | | 4000 | |
| EUH-B | 5100 | | | 60 | 8 | 7 8 | 8 | 60 | 4000 | | | CAR CHARGER |
| | | 5100 | | | 8 | 9 10 | 8 | 2P | | 4000 | | |
| | | | 5100 | 3P | 8 | 11 12 | 8 | 60 | | | 4000 | CAR CHARGER |
| EUH-B | 5100 | | | 60 | 8 | 13 14 | 8 | 2P | 4000 | | | |
| | | 5100 | | | 8 | 15 16 | 12 | 20 | | 1500 | | EUH-A |
| | | | 5100 | 3P | 8 | 17 18 | 12 | 2P | | | 1500 | |
| ELEV PIT | 200 | | | 20 | 12 | 19 20 | 12 | 20 | 1200 | | | LIGHTING |
| SUMP PUMP | | 600 | | 20 | 12 | 21 22 | 12 | 20 | | 200 | | ELEV PIT |
| EUH-C | | | 1500 | 20 | 12 | 23 24 | 12 | 20 | | | 600 | SUMP PUMP |
| ELEVATOR LTG | 40 | | | 20 | 12 | 25 26 | 12 | 20 | 600 | | | ELEV PIT |
| EUH-C | | 1500 | | 20 | 12 | 27 28 | 12 | 20 | | 700 | | LTS/RECEPTS |
| SPARE | | | | 20 | | 29 30 | 10 | 30 | | | 2500 | EUH_B2 |
| SPARE | | | | 20 | | 31 32 | 10 | 2p | 2500 | | | |
| SPARE | | | | 20 | | 33 34 | | | | | | SPACE |
| SPARE | | | | 20 | | 35 36 | | | | | | SPACE |
| SPARE | | | | 20 | | 37 38 | | | | | | SPACE |
| SPARE | | | | 20 | | 39 40 | | | | | | SPACE |
| SPARE | | | | 20 | | 41 42 | | | | | | SPACE |
| CONNECTED LOAD-WATTS | 29040 | 27800 | 29400 | | | | | | FEEDER LOAD-WATTS | | | |
| CONNECTED LOAD-AMPS | 242 | 232 | 245 | | | | | | FEEDER LOAD-AMPS | | | |
| CONTINUOUS LOAD | | | | | | | | | FEEDER WIRE | | | |
| RECEPTACLES | | | | | | | | | FEEDER OCP | | | 225 A |
| NON-CONTINUOUS LOAD | | | | | | | | | | | | |
| OTHER DIVERSIFIED LOAD | | | | @ | 0.5 | | | | | | | |

## ELECTRICAL PANEL SCHEDULE

PANEL: 2-4A | LOCATION: | MOUNTING: SURFACE
BUS: 225 A | MAINS: MLO | VOLTAGE: 120/208 | PHASE/WIRE: 3/4 | KAIC: 10

| DESCRIPTION | A | B | C | BRKR | WIRE | POLE | WIRE | BRKR | A | B | C | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AHU-3/4 | 4800 | | | 50 | 8 | 1 2 | 12 | 20 | 400 | | | LTS/RECEPTS |
| | | 4800 | | 2P | 8 | 3 4 | 12 | 20 | | 1000 | | LIGHTING |
| AHU-4/4 | | | 4800 | 50 | 8 | 5 6 | 10 | 25 | | | 1700 | CU-3/4 |
| | 4800 | | | 2P | 8 | 7 8 | 10 | 2P | 1700 | | | |
| DSS-4/3 | | 1900 | | 25 | 10 | 9 10 | 10 | 25 | | 1700 | | CU-4/4 |
| | | | 1900 | 2P | 10 | 11 12 | 10 | 2P | | | 1700 | |
| CU-1/7 | 1700 | | | 25 | 10 | 13 14 | | 20 | | | | |
| | | 1700 | | 2P | 10 | 15 16 | 12 | 20 | | 1000 | | RECEPTACLES |
| CU-2/4 | | | 1700 | 25 | 12 | 17 18 | | 20 | | | | |
| | 1700 | | | 2P | 12 | 19 20 | | 20 | | | | |
| RECEPTACLES | | 1000 | | 20 | 12 | 21 22 | | | | | | SPACE |
| LIGHTING | | | 1000 | 20 | 12 | 23 24 | | | | | | SPACE |
| | | | | | | 25 26 | | | | | | SPACE |
| | | | | | | 27 28 | | | | | | SPACE |
| | | | | | | 29 30 | | | | | | SPACE |
| SPARE | | | | 20 | | 31 32 | | | | | | SPACE |
| SPARE | | | | 20 | | 33 34 | | | | | | SPACE |
| SPARE | | | | 20 | | 35 36 | | | | | | SPACE |
| SPARE | | | | 20 | | 37 38 | | | | | | SPACE |
| SPARE | | | | 20 | | 39 40 | | | | | | SPACE |
| SPARE | | | | 20 | | 41 42 | | | | | | SPACE |
| CONNECTED LOAD-WATTS | 15100 | 13100 | 12800 | | | | | | FEEDER LOAD-WATTS | | | |
| CONNECTED LOAD-AMPS | 126 | 109 | 107 | | | | | | FEEDER LOAD-AMPS | | | |
| CONTINUOUS LOAD | | | | | | | | | FEEDER WIRE | | | |
| RECEPTACLES | | | | | | | | | FEEDER OCP | | | 125 A |
| NON-CONTINUOUS LOAD | | | | | | | | | | | | |
| OTHER DIVERSIFIED LOAD | | | | @ | 0.5 | | | | | | | |

## ELECTRICAL PANEL SCHEDULE

PANEL: 2-4B | LOCATION: | MOUNTING: SURFACE
BUS: 225 A | MAINS: MLO | VOLTAGE: 120/208 | PHASE/WIRE: 3/4 | KAIC: 10

| DESCRIPTION | A | B | C | BRKR | WIRE | POLE | WIRE | BRKR | A | B | C | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AHU-3/3 | 4800 | | | 50 | 8 | 1 2 | 12 | 20 | 1000 | | | LIGHTING |
| | | 4800 | | 2P | 8 | 3 4 | 12 | 20 | | 1000 | | LIGHTING |
| AHU-4/3 | | | 4800 | 50 | 8 | 5 6 | 12 | 20 | | | 400 | RECEPTACLES |
| | 4800 | | | 2P | 8 | 7 8 | 12 | 20 | 400 | | | RECEPTACLES |
| CU-4/3 | | 1700 | | 50 | 8 | 9 10 | 12 | 20 | | 400 | | ELEVATOR CAR |
| | | | 1700 | 2P | 8 | 11 12 | 12 | 20 | | | 200 | HOISTWAY |
| CU-1/3 | 1700 | | | 20 | 12 | 13 14 | 6 | 60 | 4800 | | | ELEVATOR |
| | | 1700 | | 20 | 12 | 15 16 | 6 | | | 4800 | | |
| CU-2/2 | | | 1700 | 20 | 12 | 17 18 | 6 | 3P | | | 4800 | |
| | 1700 | | | 20 | 12 | 19 20 | 8 | 50 | 3100 | | | CU-1/3 |
| CU-3/2 | | 1700 | | 20 | 12 | 21 22 | 8 | 2P | | 3100 | | |
| | | | 1700 | 20 | 12 | 23 24 | 12 | 20 | | | 800 | RECEPTACLES |
| ELEVATOR | 4800 | | | 60 | 6 | 25 26 | 12 | 20 | 800 | | | RECEPTACLES |
| | | 4800 | | | 6 | 27 28 | 12 | 20 | | 600 | | RECEPTACLES |
| | | | 4800 | 3P | 6 | 29 30 | 12 | 20 | | | 400 | RECEPTACLES |
| ELEV CAR | 400 | | | 20 | 12 | 31 32 | 12 | 20 | 1500 | | | RECEPTACLES |
| ELEV HOISTWAY | | 200 | | 20 | 12 | 33 34 | 12 | 20 | | 600 | | RECEPTACLES |
| RECEPTACLES | | | 800 | 20 | | 35 36 | 8 | 40 | | | 3700 | RTU-5 |
| RTU-6 | 3700 | | | 40 | 8 | 37 38 | 8 | | 3700 | | | |
| | | 3700 | | | 8 | 39 40 | 8 | 3P | | 3700 | | |
| | | | 3700 | 3P | 8 | 41 42 | | | | | | SPACE |
| RECEPTACLES | 400 | | | 20 | 12 | 43 44 | 10 | 25 | 1700 | | | CU-1/4 |
| RECEPTACLES | | 400 | | 20 | 12 | 45 46 | 10 | 2P | | 1700 | | |
| SPARE | | | | 20 | | 47 48 | 12 | 20 | | | 1500 | WATER HEATER |
| SPARE | | | | 20 | | 49 50 | | | | | | SPACE |
| SPARE | | | | 20 | | 51 52 | 12 | 20 | | 800 | | RECEPTACLES |
| SPARE | | | | 20 | | 53 54 | | | | | | SPACE |
| CONNECTED LOAD-WATTS | 39300 | 35700 | 31000 | | | | | | FEEDER LOAD-WATTS | | | |
| CONNECTED LOAD-AMPS | 328 | 298 | 258 | | | | | | FEEDER LOAD-AMPS | | | |
| CONTINUOUS LOAD | | | | | | | | | FEEDER WIRE | | | |
| RECEPTACLES | | | | | | | | | FEEDER OCP | | | 300 A |
| NON-CONTINUOUS LOAD | | | | | | | | | | | | |
| OTHER DIVERSIFIED LOAD | | | | @ | 0.5 | | | | | | | |

## ELECTRICAL PANEL SCHEDULE

PANEL: 2-1A | LOCATION: | MOUNTING: SURFACE
BUS: 400 A | MAINS: MLO | VOLTAGE: 120/208 | PHASE/WIRE: 3/4 | KAIC: 10

| DESCRIPTION | A | B | C | BRKR | WIRE | POLE | WIRE | BRKR | A | B | C | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EUH-A | 1500 | | | 20 | 12 | 1 2 | 12 | 20 | 1000 | | | LIGHTING |
| | | 1500 | | 2P | 12 | 3 4 | 12 | 20 | | 1000 | | LIGHTING |
| EUH-B2 | | | 2500 | 30 | 10 | 5 6 | 12 | 20 | | | 1000 | LIGHTING |
| | 2500 | | | 2P | 10 | 7 8 | 12 | 20 | 600 | | | LTS/RECEPTS |
| AHU-1/7 | | 4800 | | 50 | 8 | 9 10 | 12 | 20 | | 600 | | LTS/RECEPTS |
| | | | 4800 | 2P | 8 | 11 12 | 12 | 20 | | | 600 | LTS/RECEPTS |
| RECEPTACLES | 800 | | | 20 | 12 | 13 14 | 12 | 20 | 500 | | | LTS/RECEPTS |
| RECEPTACLES | | 800 | | 20 | 12 | 15 16 | 12 | 20 | | 600 | | LTS/RECEPTS |
| RECEPTACLES | | | 800 | 20 | 12 | 17 18 | 12 | 20 | | | 500 | LTS/RECEPTS |
| RECEPTACLES | 800 | | | 20 | 12 | 19 20 | 12 | 20 | 1200 | | | EXTERIOR LIGHTING |
| LTS/RECEPTS | | 800 | | 20 | 12 | 21 22 | 12 | 20 | | 1500 | | EUH-A |
| OHD | | | 1500 | 20 | 12 | 23 24 | 12 | 2P | | | 1500 | |
| AHU-2/4 | 4800 | | | 50 | 8 | 25 26 | 12 | 20 | 800 | | | LTS/RECEPTS |
| | | 4800 | | 2P | 8 | 27 28 | 12 | 20 | | 1000 | | LIGHTING |
| LTS/RECEPTS | | | 1000 | 20 | 12 | 29 30 | | | | | | SPACE |
| SPARE | | | | 20 | | 31 32 | | | | | | SPACE |
| SPARE | | | | 20 | | 33 34 | | | | | | SPACE |
| SPARE | | | | 20 | | 35 36 | | | | | | SPACE |
| SPARE | | | | 20 | | 37 38 | | 125 | 15100 | | | PANEL 2-4A |
| SPARE | | | | 20 | | 39 40 | | | | 13100 | | |
| SPARE | | | | 20 | | 41 42 | | 3P | | | 12800 | |
| CONNECTED LOAD-WATTS | 29600 | 30500 | 27000 | | | | | | FEEDER LOAD-WATTS | | | |
| CONNECTED LOAD-AMPS | 247 | 254 | 225 | | | | | | FEEDER LOAD-AMPS | | | |
| CONTINUOUS LOAD | | | | | | | | | FEEDER WIRE | | | |
| RECEPTACLES | | | | | | | | | FEEDER OCP | | | 400 A |
| NON-CONTINUOUS LOAD | | | | | | | | | | | | |
| OTHER DIVERSIFIED LOAD | | | | @ | 0.5 | | | | | | | |

## ELECTRICAL PANEL SCHEDULE

PANEL: 2-1B | LOCATION: | MOUNTING: SURFACE
BUS: 400 A | MAINS: MLO | VOLTAGE: 120/208 | PHASE/WIRE: 3/4 | KAIC: 10

| DESCRIPTION | A | B | C | BRKR | WIRE | POLE | WIRE | BRKR | A | B | C | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LTS/RECEPTS | 400 | | | | | 1 2 | 12 | 20 | 1000 | | | LIGHTING |
| AHU-1/6 | | 4800 | | 50 | 8 | 3 4 | 12 | 20 | | 1000 | | LIGHTING |
| | | | 4800 | 2P | 8 | 5 6 | 12 | 20 | | | 400 | RECEPTACLES |
| AHU-2/3 | 4800 | | | 50 | 8 | 7 8 | 12 | 20 | 800 | | | RECEPTACLES |
| | | 4800 | | 2P | 8 | 9 10 | | | | 200 | | RECEPTACLES |
| RECEPTACLES | | | 800 | | | 11 12 | | | | | | |
| COURTYARD | 1000 | | | 20 | 12 | 13 14 | 12 | 20 | | | | |
| COURTYARD | | 1000 | | 20 | 12 | 15 16 | 12 | 20 | | | | |
| COURTYARD | | | 600 | 20 | 12 | 17 18 | 12 | 20 | | | | |
| COURTYARD | 200 | | | 20 | 12 | 19 20 | 12 | 20 | | | | |
| COURTYARD | | 400 | | 20 | 12 | 21 22 | | | | | | SPACE |
| RECEPTACLES | | | 800 | 20 | 12 | 23 24 | | | | | | SPACE |
| | | | | 20 | 12 | 25 26 | | | | | | SPACE |
| | | | | 20 | 12 | 27 28 | | | | | | SPACE |
| | | | | 20 | 12 | 29 30 | | | | | | SPACE |
| SPARE | | | | 20 | | 31 32 | | | | | | SPACE |
| SPARE | | | | 20 | | 33 34 | | | | | | SPACE |
| SPARE | | | | 20 | | 35 36 | | | | | | SPACE |
| SPARE | | | | 20 | | 37 38 | | 300 | 39300 | | | PANEL 2-4B |
| SPARE | | | | 20 | | 39 40 | | | | 35700 | | |
| SPARE | | | | 20 | | 41 42 | | 3P | | | 31000 | |
| CONNECTED LOAD-WATTS | 47500 | 47900 | 38400 | | | | | | FEEDER LOAD-WATTS | | | |
| CONNECTED LOAD-AMPS | 396 | 399 | 320 | | | | | | FEEDER LOAD-AMPS | | | |
| CONTINUOUS LOAD | | | | | | | | | FEEDER WIRE | | | |
| RECEPTACLES | | | | | | | | | FEEDER OCP | | | 400 A |
| NON-CONTINUOUS LOAD | | | | | | | | | | | | |
| OTHER DIVERSIFIED LOAD | | | | @ | 0.5 | | | | | | | |

## ELECTRICAL PANEL SCHEDULE

PANEL: 2-1C | LOCATION: | MOUNTING: SURFACE
BUS: 225 A | MAINS: MLO | VOLTAGE: 120/208 | PHASE/WIRE: 3/4 | KAIC: 10

| DESCRIPTION | A | B | C | BRKR | WIRE | POLE | WIRE | BRKR | A | B | C | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AHU-1/3 | 6900 | | | 70 | 6 | 1 2 | 12 | 20 | 600 | | | LIGHTING |
| | | 6900 | | 2P | 6 | 3 4 | 12 | 20 | | 800 | | LTS/RECEPTS |
| AHU-1/4 | | | 4800 | 50 | 8 | 5 6 | 12 | 20 | | | 600 | LTS/RECEPTS |
| | 4800 | | | 2P | 8 | 7 8 | 12 | 20 | 600 | | | RECEPTACLES |
| COURTYARD | | 1000 | | 20 | 12 | 9 10 | 12 | 20 | | 600 | | RECEPTACLES |
| COURTYARD | | | 800 | 20 | 12 | 11 12 | 12 | 20 | | | 600 | RECEPTACLES |
| COURTYARD | 400 | | | 20 | 12 | 13 14 | 12 | 20 | 600 | | | RECEPTACLES |
| COURTYARD | | 400 | | 20 | 12 | 15 16 | 12 | 20 | | 600 | | RECEPTACLES |
| RECEPTACLES | | | 800 | 20 | 12 | 17 18 | 12 | 20 | | | 600 | RECEPTACLES |
| RECEPTACLES | 1000 | | | 20 | 12 | 19 20 | 12 | 20 | 800 | | | RECEPTACLES |
| RECEPTACLES | | 800 | | 20 | 12 | 21 22 | 12 | 20 | | 800 | | RECEPTACLES |
| | | | | | | 23 24 | 10 | 20 | | | 800 | RECEPTACLES |
| | | | | | | 25 26 | 10 | 30 | 1980 | | | WH-CL2 |
| LIGHTING | | 600 | | 20 | 12 | 27 28 | 10 | 2P | | 1980 | | |
| LIGHTING | | | 600 | 20 | 12 | 29 30 | 12 | 20 | | | | |
| LIGHTING | 1000 | | | 20 | 12 | 31 32 | 12 | 20 | | | | |
| LIGHTING | | 1000 | | 20 | 12 | 33 34 | 12 | 20 | | | | |
| | | | | 20 | | 35 36 | | | | | | |
| | | | | | | 37 38 | | | | | | |
| | | | | | | 39 40 | | | | | | |
| | | | | | | 41 42 | | | | | | SPACE |
| CONNECTED LOAD-WATTS | 18680 | 15480 | 9600 | | | | | | FEEDER LOAD-WATTS | | | |
| CONNECTED LOAD-AMPS | 156 | 129 | 80 | | | | | | FEEDER LOAD-AMPS | | | |
| CONTINUOUS LOAD | | | | | | | | | FEEDER WIRE | | | |
| RECEPTACLES | | | | | | | | | FEEDER OCP | | | 225 A |
| NON-CONTINUOUS LOAD | | | | | | | | | | | | |
| OTHER DIVERSIFIED LOAD | | | | @ | 0.5 | | | | | | | |

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
RICHARD R. BEARDMORE
PROFESSIONAL ENGINEER
4-3-20

ARCHITECT: TR,i ARCHITECTS
STRUCTURAL ENGINEER: BOB D CAMPBELL & COMPANY
CIVIL ENGINEER: RENAISSANCE INFRASTRUCTURE CONSULTING
GENERAL CONTRACTOR: BRINKMANN CONSTRUCTORS
MECHANICAL ENGINEER: LATIMER SOMMERS & ASSOCIATES
PLUMBING ENGINEER: LATIMER SOMMERS & ASSOCIATES
ELECTRICAL ENGINEER: LATIMER SOMMERS & ASSOCIATES

Pearl COMPANIES

# Summit at West Pryor

TR,i ARCHITECTS

TR,i Architects
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F: 314-395-9751
www.triarchitects.com
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DATE: 09.12.19

REVISIONS

| | | |
|---|---|---|
| 1 | PERMIT COMMENTS | 09.06.19 |
| 2 | REVISION 1 | 12.20.19 |
| 3 | REVISION 3 | 04.03.20 |

DWG BY: RRB
TR,i PROJECT NO.: 18-046
SHEET NO.: E307
ELECTRICAL SCHEDULES

LS&A Latimer Sommers & Associates, P.A.
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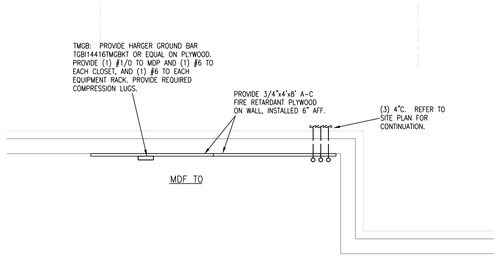
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lsapa@lsapa.com
LSA PROJECT NO. 1904023



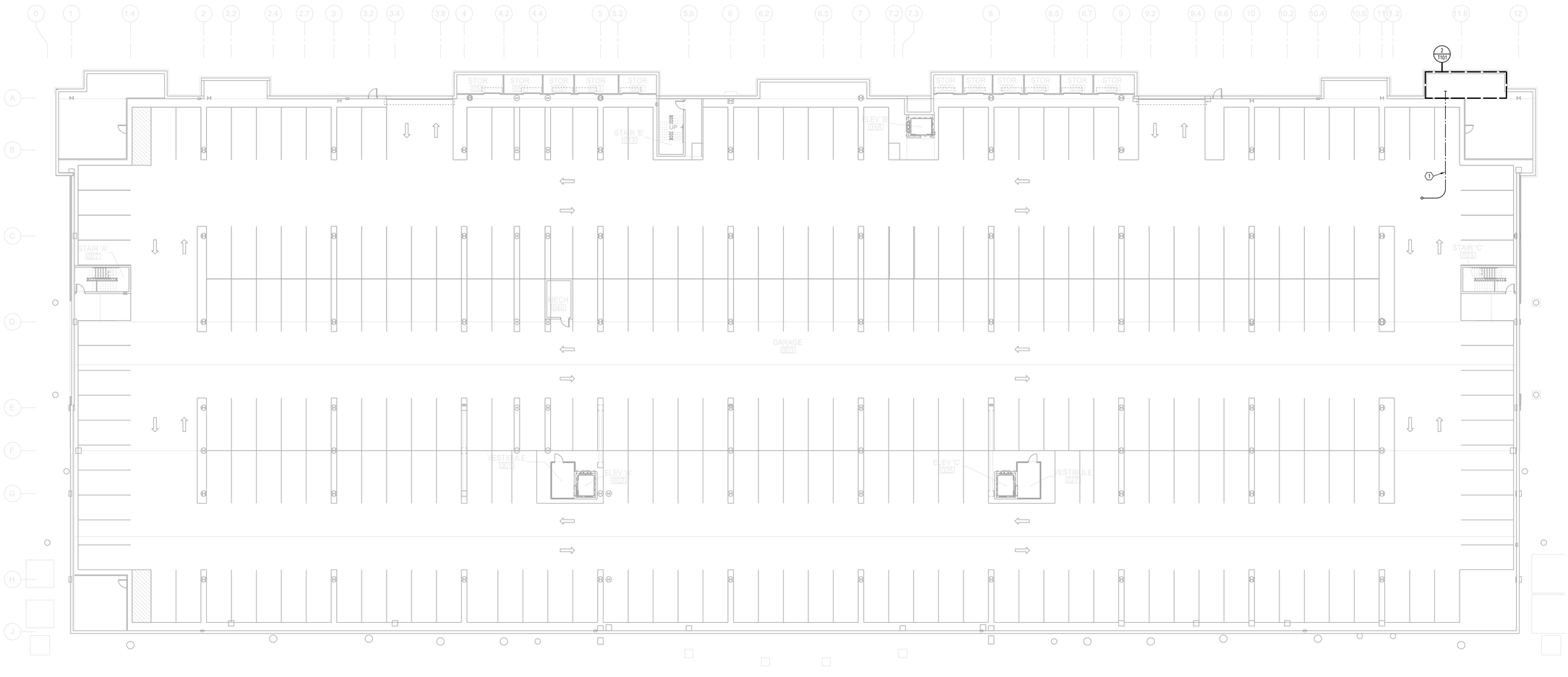

## 2 PARTIAL FLOOR PLAN

1/4"=1'-0" TELECOM

NORTH

LEGEND:

1 (3) 4" EMT CONDUITS BY E/C




## 1 GARAGE PLAN

1/16"=1'-0" TELECOM

NORTH

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
Apr 13/2020

STATE OF MISSOURI
RICHARD R. BEARDEN
NUMBER
PE-2000020496
PROFESSIONAL ENGINEER
07-29-19

ARCHITECT
TR,i ARCHITECTS

STRUCTURAL ENGINEER
BOB D CAMPBELL & COMPANY

CIVIL ENGINEER
RENAISSANCE INFRASTRUCTURE CONSULTING

GENERAL CONTRACTOR
BRINKMANN CONSTRUCTORS

MECHANICAL ENGINEER
LATIMER SOMMERS & ASSOCIATES

PLUMBING ENGINEER
LATIMER SOMMERS & ASSOCIATES

ELECTRICAL ENGINEER
LATIMER SOMMERS & ASSOCIATES

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www.triarchitects.com
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DATE: 07.29.19

REVISIONS ___

DWG BY RRB

TR,i PROJECT NO. 18-046

SHEET NO.

T101

GARAGE PLAN - TELECOM

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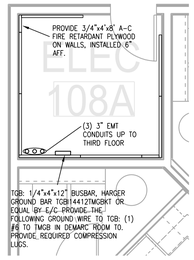
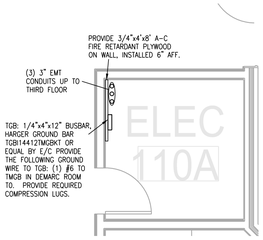
FAX: (785) 233-0647
Email: lsapa@lsapa.com

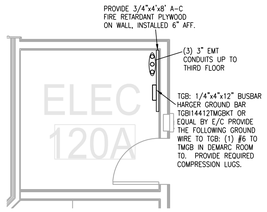
LSA PROJECT NO. 1904023



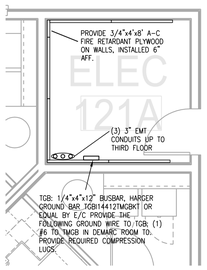

2 **PARTIAL FLOOR PLAN**
1/4"=1'-0" TELECOM



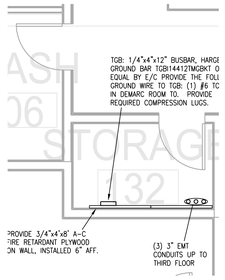

3 **PARTIAL FLOOR PLAN**
1/4"=1'-0" TELECOM




4 **PARTIAL FLOOR PLAN**
1/4"=1'-0" TELECOM



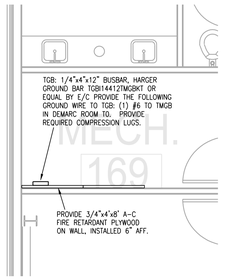

5 **PARTIAL FLOOR PLAN**
1/4"=1'-0" TELECOM



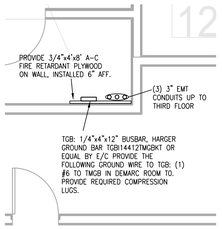

6 **PARTIAL FLOOR PLAN**
1/4"=1'-0" TELECOM

LEGEND:

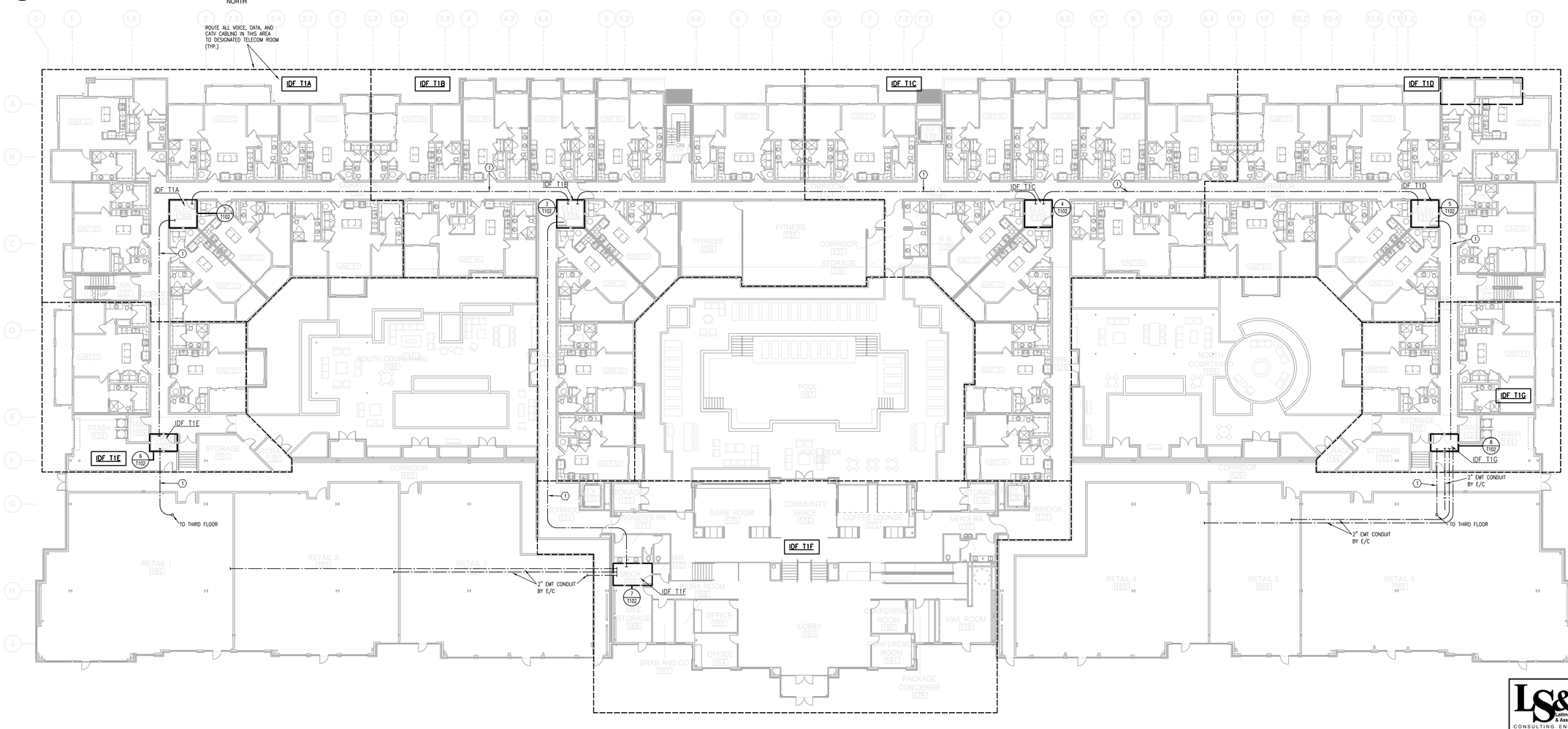
1 (3) 4" EMT CONDUITS BY E/C




7 **PARTIAL FLOOR PLAN**
1/4"=1'-0" TELECOM




8 **PARTIAL FLOOR PLAN**
1/4"=1'-0" TELECOM




1 **FIRST FLOOR PLAN**
1/16"=1'-0" TELECOM

LS&A Latimer Sommers & Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lsapa@lsapa.com
LSA PROJECT NO. 1904023

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
April 13, 2020

STATE OF MISSOURI
RICHARD D. BRANDT
NUMBER PE-2000020496
PROFESSIONAL ENGINEER
07-29-19

ARCHITECT — TR.i ARCHITECTS
STRUCTURAL ENGINEER — BOB D CAMPBELL & COMPANY
CIVIL ENGINEER — RENAISSANCE INFRASTRUCTURE CONSULTING
GENERAL CONTRACTOR — BRINKMANN CONSTRUCTORS
MECHANICAL ENGINEER — LATIMER SOMMERS & ASSOCIATES
PLUMBING ENGINEER — LATIMER SOMMERS & ASSOCIATES
ELECTRICAL ENGINEER — LATIMER SOMMERS & ASSOCIATES

Pearl COMPANIES

# Summit at West Pryor

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F: 314-395-9751
www.triarchitects.com
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DATE: 07.29.19

REVISIONS ___

DWG BY RRB

TR.i PROJECT NO. 18-046

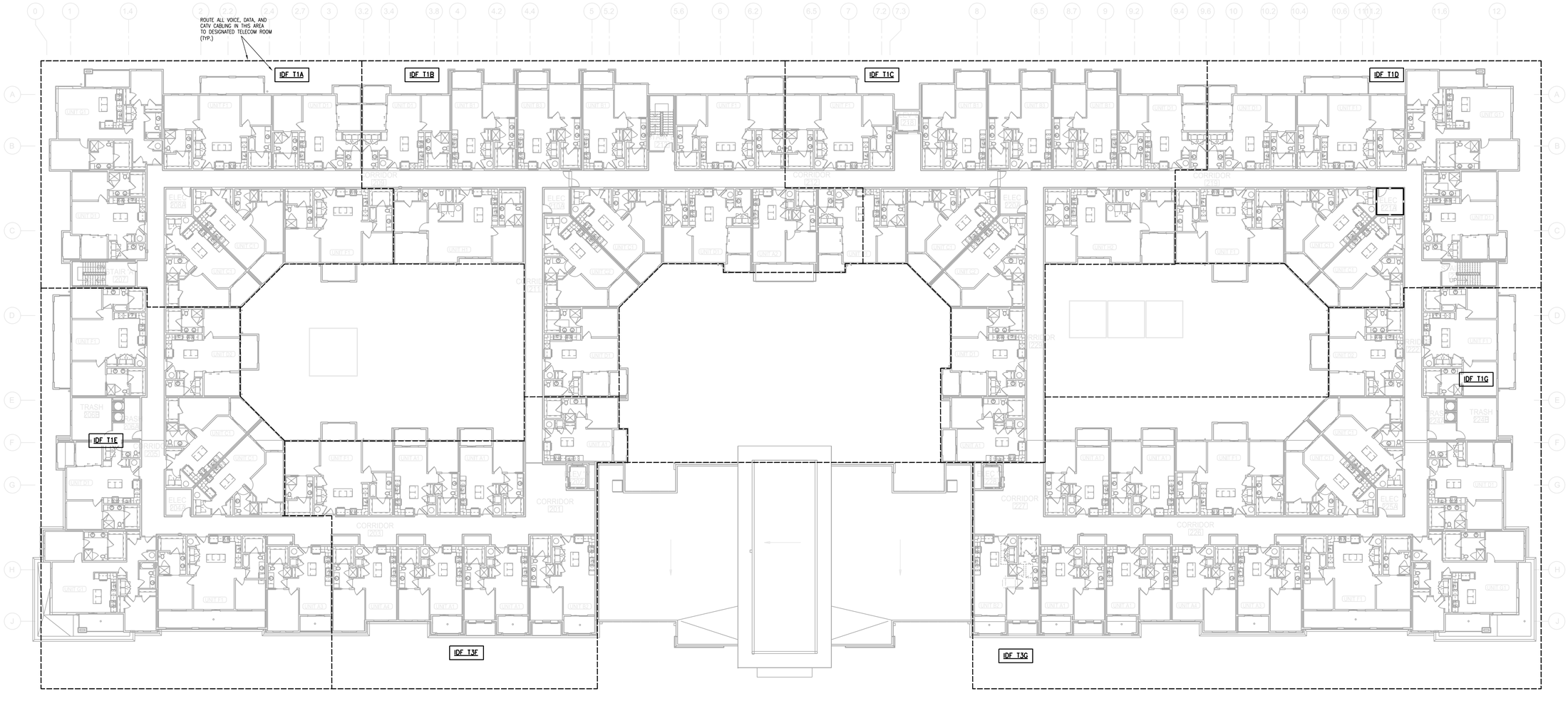
SHEET NO.

T102

FIRST FLOOR PLAN - TELECOM

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
Apr 13, 2020

| LEGEND: |
|---|
| 1 (3) 4" EMT CONDUITS BY E/C |




1 **SECOND FLOOR PLAN**
1/16"=1'-0" TELECOM

NORTH

LS&A Latimer Sommers & Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lsapa@lsapa.com
LSA PROJECT NO. 1904023

STATE OF MISSOURI
RICHARD R. BRANDON
NUMBER PE-2000020486
PROFESSIONAL ENGINEER
07-29-19

| | |
|---|---|
| ARCHITECT | TR,i ARCHITECTS |
| STRUCTURAL ENGINEER | BOB D CAMPBELL & COMPANY |
| CIVIL ENGINEER | RENAISSANCE INFRASTRUCTURE CONSULTING |
| GENERAL CONTRACTOR | BRINKMANN CONSTRUCTORS |
| MECHANICAL ENGINEER | LATIMER SOMMERS & ASSOCIATES |
| PLUMBING ENGINEER | LATIMER SOMMERS & ASSOCIATES |
| ELECTRICAL ENGINEER | LATIMER SOMMERS & ASSOCIATES |

Pearl COMPANIES

# Summit at West Pryor

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www.trarchitects.com

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**DATE:** 07.29.19

**REVISIONS** ___

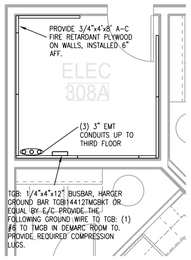
**DWG BY** RRB

**TR,i PROJECT NO.** 18-046

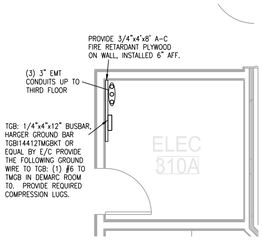
**SHEET NO.**

T103

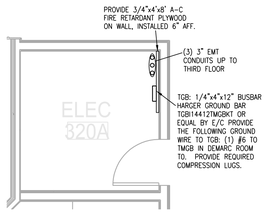
**SECOND FLOOR PLAN- TELECOM**



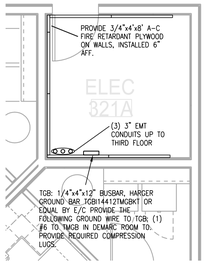

2 **PARTIAL FLOOR PLAN**
1/4"=1'-0" TELECOM
NORTH



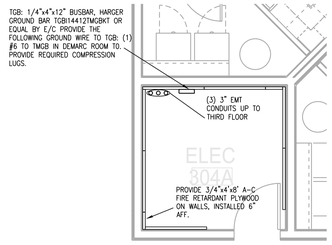

3 **PARTIAL FLOOR PLAN**
1/4"=1'-0" TELECOM
NORTH




4 **PARTIAL FLOOR PLAN**
1/4"=1'-0" TELECOM
NORTH



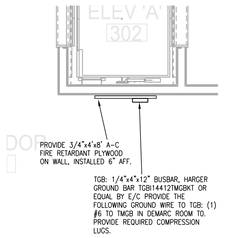

5 **PARTIAL FLOOR PLAN**
1/4"=1'-0" TELECOM
NORTH



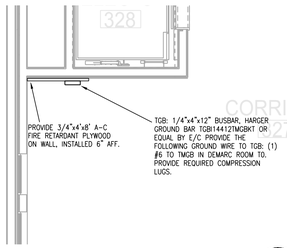

6 **PARTIAL FLOOR PLAN**
1/4"=1'-0" TELECOM
NORTH

LEGEND:

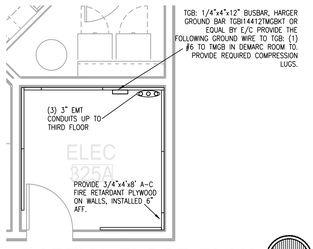
1 (3) 4" EMT CONDUITS BY E/C



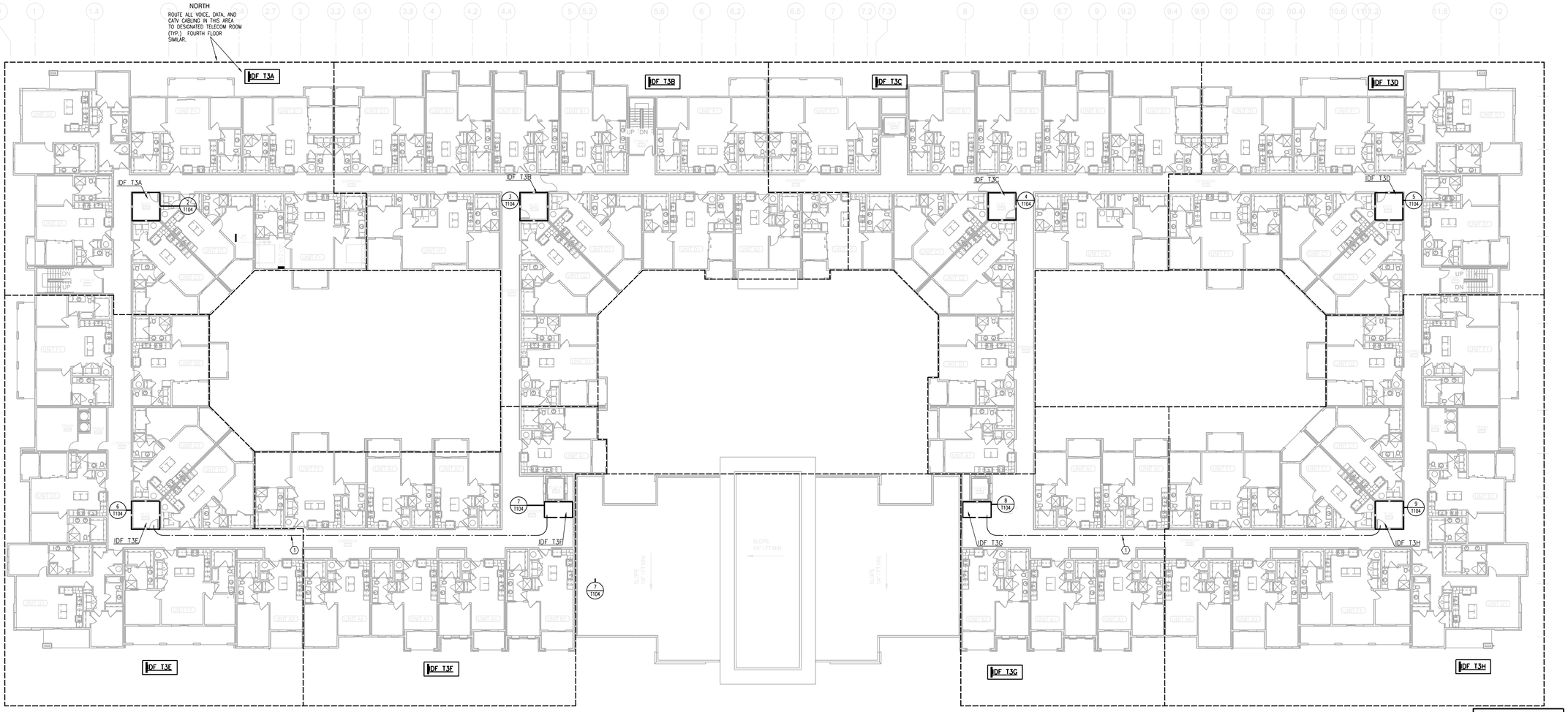

7 **PARTIAL FLOOR PLAN**
1/4"=1'-0" TELECOM
NORTH




8 **PARTIAL FLOOR PLAN**
1/4"=1'-0" TELECOM
NORTH




9 **PARTIAL FLOOR PLAN**
1/4"=1'-0" TELECOM
NORTH




1 **THIRD FLOOR PLAN**
1/16"=1'-0" TELECOM
NORTH


LS&A Latimer Sommers & Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lsapa@lsapa.com
LSA PROJECT NO. 1904023


RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
07/13/2020

STATE OF MISSOURI
RICHARD D. RUSSELL
NUMBER PE-2000020496
PROFESSIONAL ENGINEER
07-29-19

| | |
|---|---|
| TR;i ARCHITECTS | ARCHITECT |
| BOB D CAMPBELL & COMPANY | STRUCTURAL ENGINEER |
| RENAISSANCE INFRASTRUCTURE CONSULTING | CIVIL ENGINEER |
| BRINKMANN CONSTRUCTORS | GENERAL CONTRACTOR |
| LATIMER SOMMERS & ASSOCIATES | MECHANICAL ENGINEER |
| LATIMER SOMMERS & ASSOCIATES | PLUMBING ENGINEER |
| LATIMER SOMMERS & ASSOCIATES | ELECTRICAL ENGINEER |

Pearl COMPANIES

# Summit at West Pryor

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www.triarchitects.com

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**REVISIONS** ___

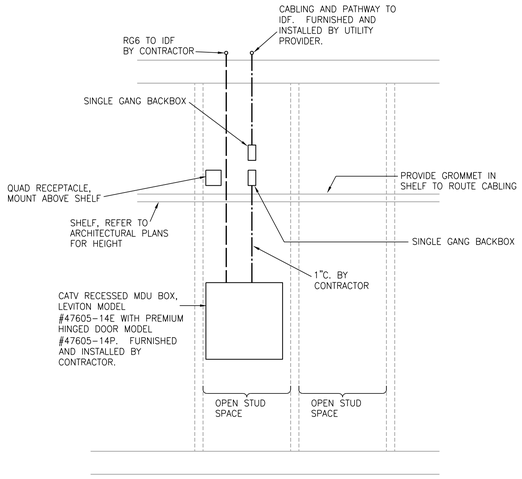
**DWG BY** RRB

**TR;i PROJECT NO.** 18-046

**SHEET NO.**

T104

**THIRD FLOOR PLAN - TELECOM**




1 **TELE/TV DEMARK FLUSH BOX DETAIL**
NO SCALE

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/13/2020

STATE OF MISSOURI
RICHARD R. BEACHAM
NUMBER
PE-2005020496
PROFESSIONAL ENGINEER
07-29-19

ARCHITECT — TR,i ARCHITECTS
STRUCTURAL ENGINEER — BOB D CAMPBELL & COMPANY
CIVIL ENGINEER — RENAISSANCE INFRASTRUCTURE CONSULTING
GENERAL CONTRACTOR — BRINKMANN CONSTRUCTORS
MECHANICAL ENGINEER — LATIMER SOMMERS & ASSOCIATES
PLUMBING ENGINEER — LATIMER SOMMERS & ASSOCIATES
ELECTRICAL ENGINEER — LATIMER SOMMERS & ASSOCIATES

Pearl COMPANIES

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St. Louis, Missouri 63119
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F: 314-395-9751
www.triarchitects.com
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**DATE:** 07.29.19

**REVISIONS** ___

**DWG BY** RRB

**TR,i PROJECT NO.** 18-046

**SHEET NO.**

T201

**TELECOM DETAILS**

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FAX: (785) 233-0647
Email: lsapa@lsapa.com

LSA PROJECT NO. 1904023