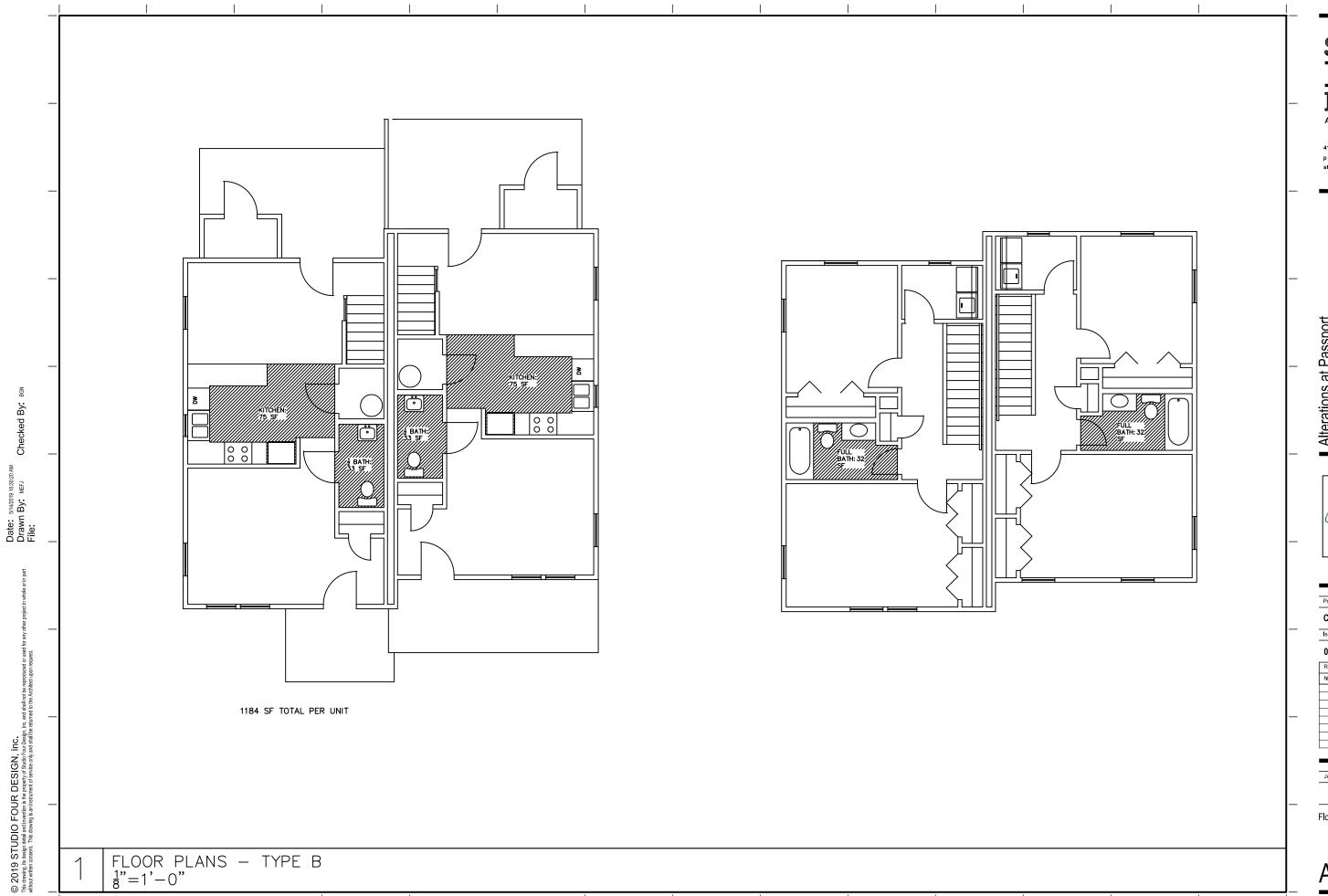




No. Descripton	Date		



STUDIO FOUR DESIGNS

414 Clinch Ave. Knoxville, TN 37902 p 865 523-5001 f 865 523-5003

Alterations at Passport Properties



901 N Broadway Knoxville, TN 37917

Project Phase

Construction Documents

Issue Date:

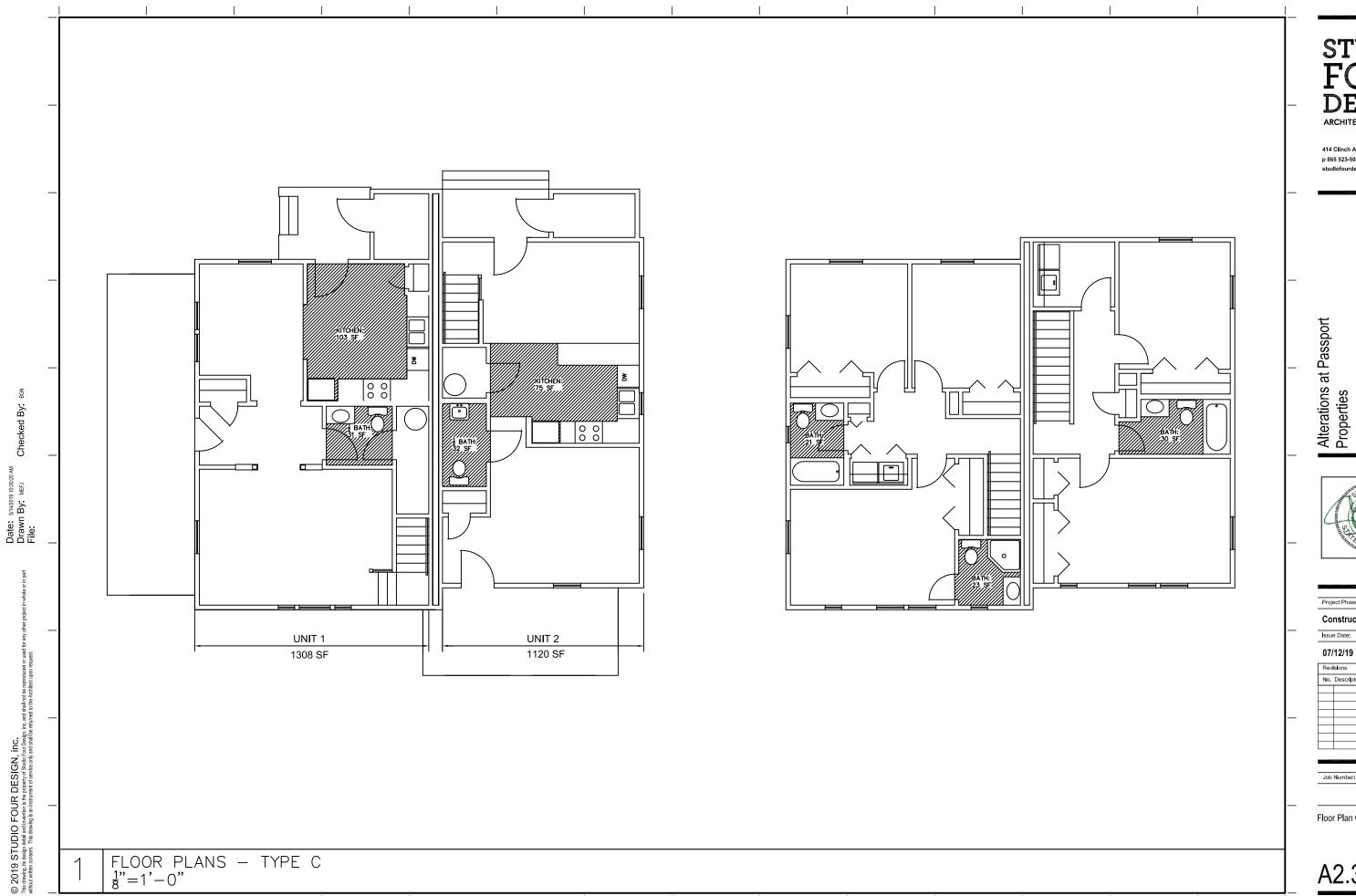
07/12/19

No. Descripton	Date	

Job Number:

19008.00

Floor Plan B



STUDIO FOUR DESIGNS

414 Clinch Ave. Knoxville, TN 37902 p 865 523-5001 f 865 523-5003

901 N Broadway Knoxville, TN 37917

Project Phase

Construction Documents

Issue Date:

07/12/19

No. Descripton	Date		
_			

Job Number:

19008.00

Floor Plan C



STUDIO FOUR DESIGNS

414 Clinch Ave. Knoxville, TN 37902 p 865 523-5001 f 865 523-5003

Alterations at Passport Properties

901 N Broadway Knoxville, TN 37917

Project Phase

Construction Documents

07/12/19

Revisions

No. Descripton	Date		

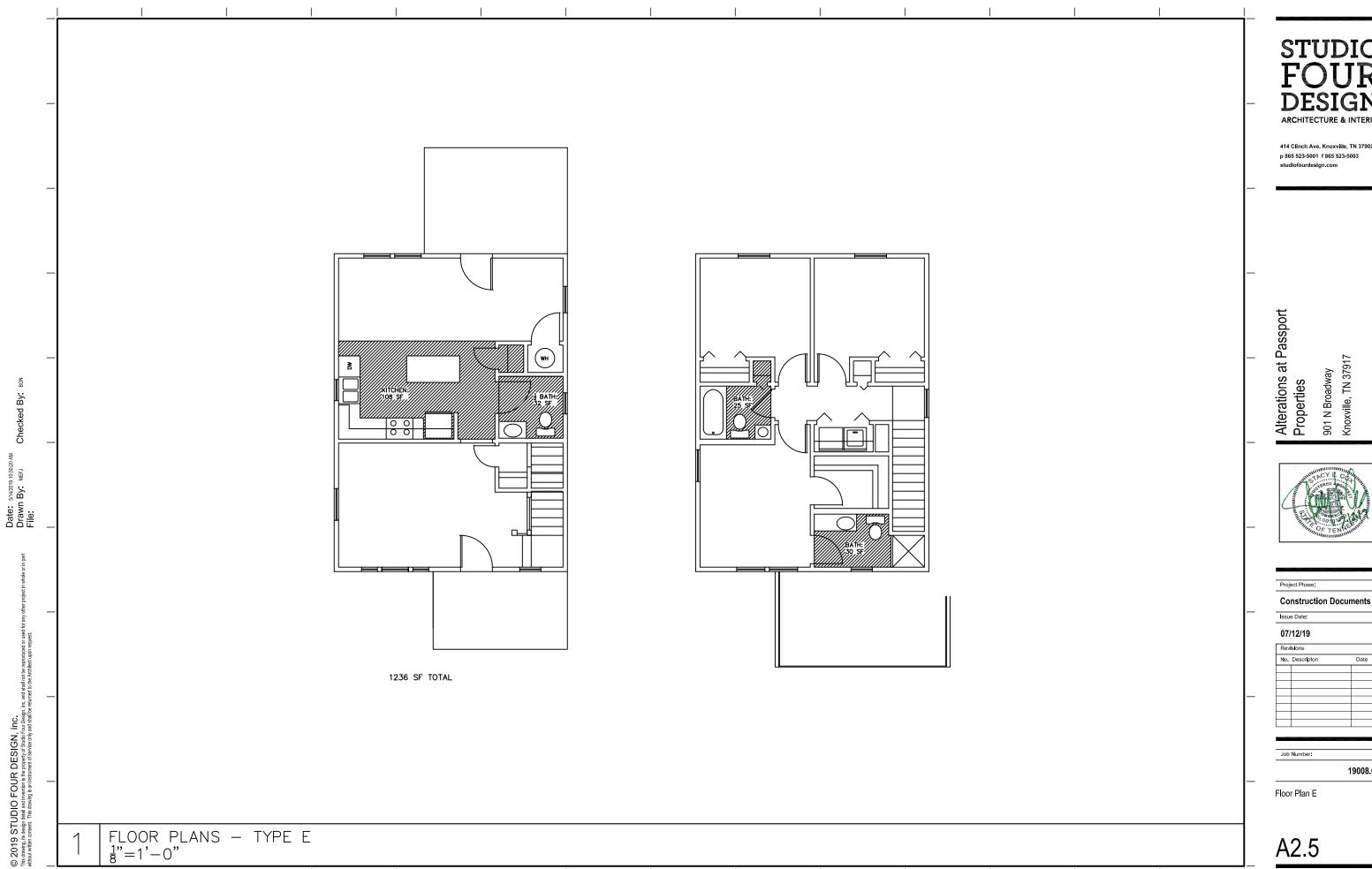
Job Number:

19008.00

Floor Plan D

A2.4

© 2019 STUDIO FOUR DESIGN, inc.
This drawing its design detail and invention is the property of Studio Four Design, inc. and stall not be, without whiter consent. This drawing is an instrument of service only and stall be returned to the Archi

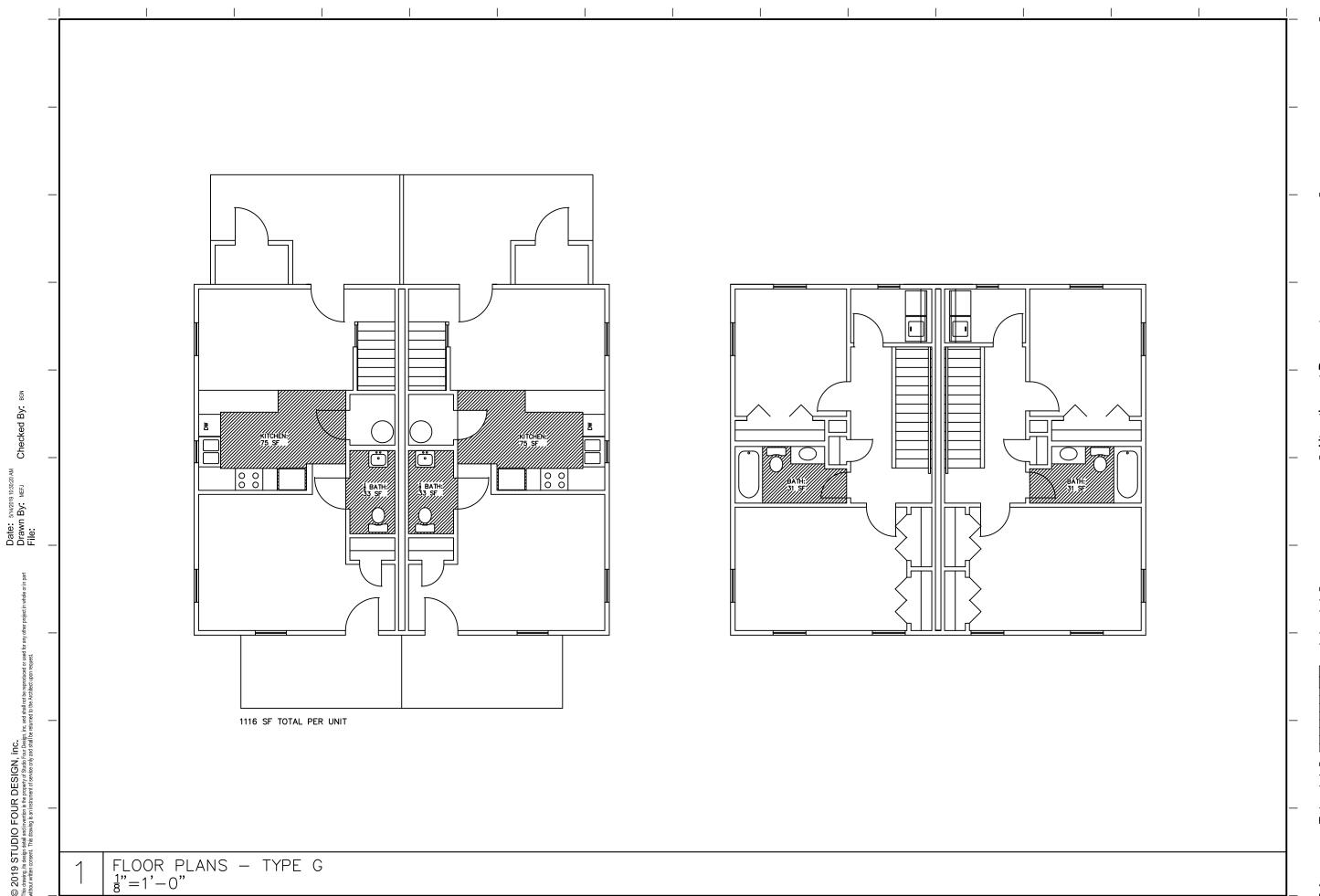


414 Clinch Ave. Knoxville, TN 37902 p 865 523-5001 f 865 523-5003



No. Descripton	Date	

19008.00



© 2019 STUDIO FOUR DESIGN, inc.
This drawing, its design detail and invention is the property of Studic Four Design, inc. and shall not be without written consent. This drawing is an instrument of service only and shall be returned to the Act)

STUDIO FOUR DESIGN®

414 Clinch Ave. Knoxville, TN 37902 p 865 523-5001 f 865 523-5003

Alterations at Passport Properties

901 N Broadway Knoxville, TN 37917



Project Phase

Construction Documents

Issue Date:

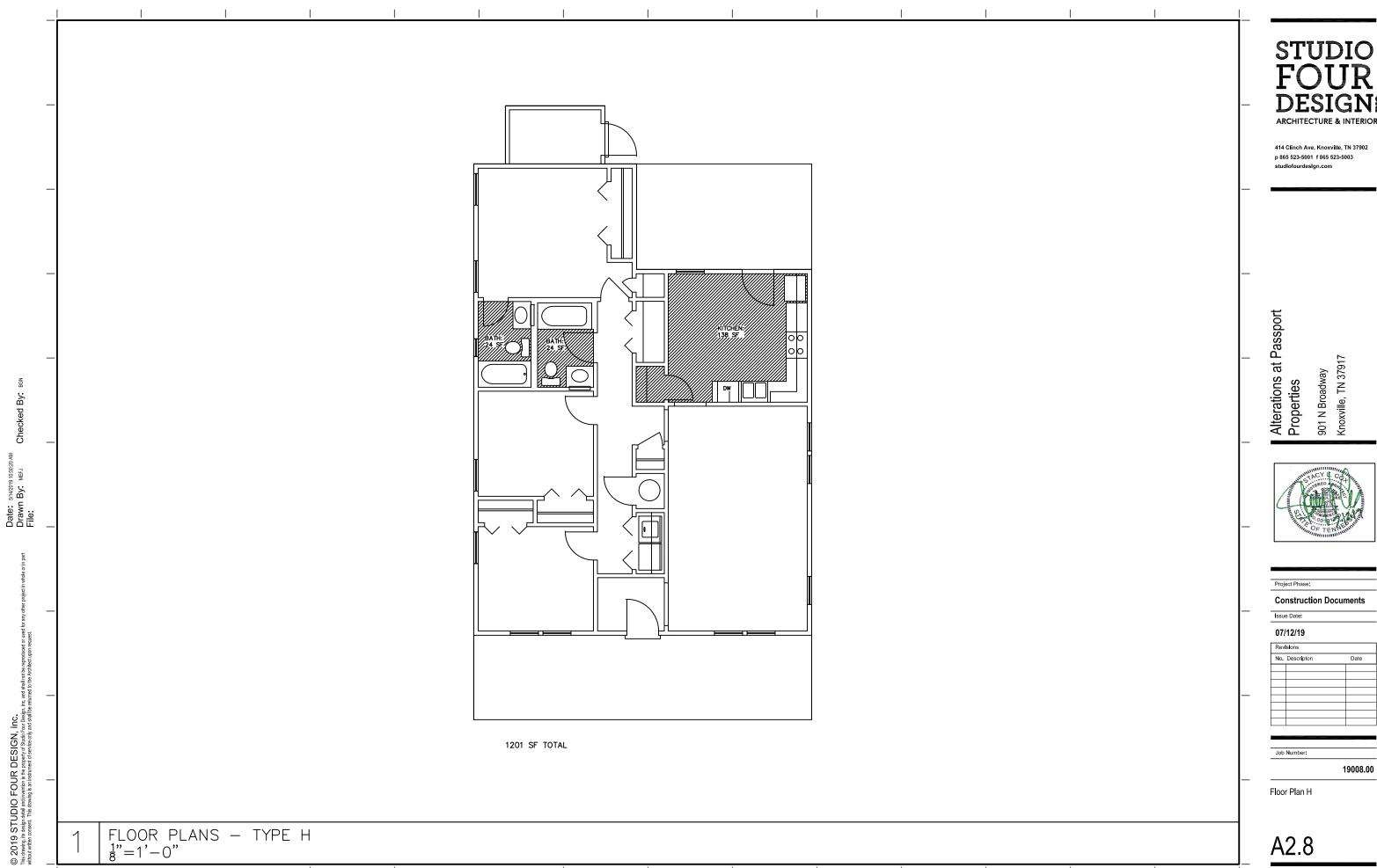
07/12/19

Revisions			
No. Descripton	Date		

Job Number:

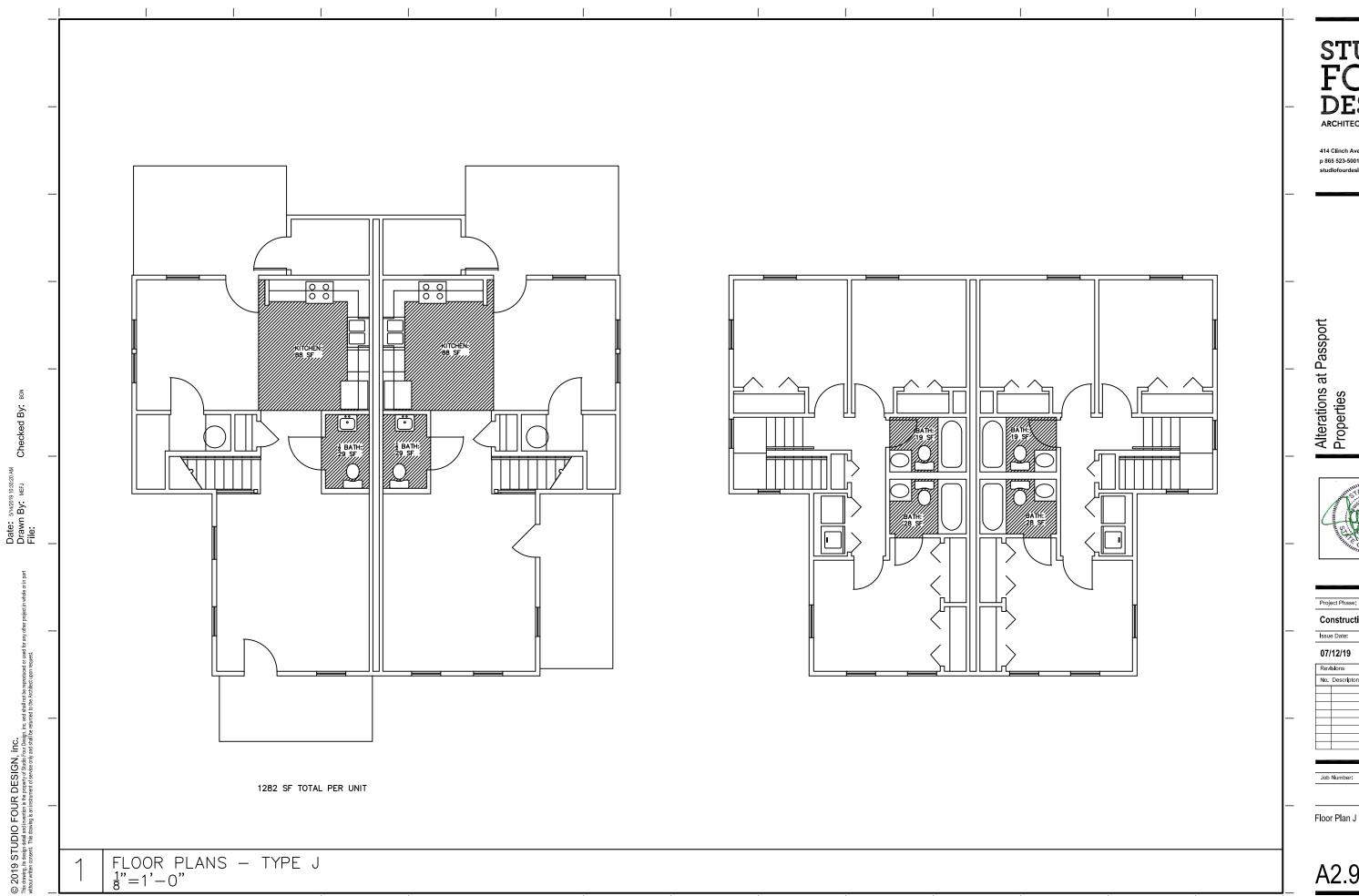
19008.00

Floor Plan G





No. Descripton	Date		



414 Clinch Ave. Knoxville, TN 37902 p 865 523-5001 f 865 523-5003

901 N Broadway Knoxville, TN 37917

Construction Documents

Issue Date:

No. Descripton	Date		

Job Number:

19008.00

Floor Plan J

1.1 SCOPE OF WORK:

- A. CONTRACTOR SHALL REMOVE EXISTING MECHANICAL EQUIPMENT AT THE SPECIFIED HOUSING LOCATIONS (REFER TO THE ARCHITECT'S PROJECT SPREADSHEET), THEN INSTALL THE NEW MECHANICAL EQUIPMENT SCHEDULED ON THIS SHEET. THE EQUIPMENT REPLACEMENT INCLUDES (2) 2 TON PACKAGED UNITS, (1) 2 TON GAS FURNACE SPLIT SYSTEMS, AND (3) 3 TON GAS FURNACE SPLIT SYSTEMS. THE NEW EQUIPMENT SHALL CONNECT TO THE EXISTING DUCTWORK AND ELECTRICAL CONNECTIONS, UNLESS FIELD VERIFICATION DETERMINES OTHERWISE FOR SAFETY AND/OR PERFORMANCE ISSUES. THE NEW SPLIT SYSTEMS SHALL REQUIRE NEW REFRIGERANT LINES ROUTED BETWEEN THE INDOOR AND OUTDOOR UNITS. IF FIELD VERIFICATION INDICATES ANY EQUIPMENT MODIFICATIONS, CONTRACTOR SHALL
- CONTACT ENGINEER FOR APPROVAL BEFORE MAKING ANY CHANGES.

 B. FURNISH ALL LABOR, INSTALL ALL MATERIALS AND EQUIPMENT AND INCLUDE ALL SERVICES AND INCIDENTALS PROPER TO THE INSTALLATION OF WORK INVOLVED FOR A COMPLETE AND OPERATING FACILITY. GUARANTEE WORK TO BE FREE FROM DEFECTS OF MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR AFTER DATE OF FINAL ACCEPTANCE OR AS REQUIRED BY SPECIFICATIONS AS APPLICABLE.
- C. OBTAIN AND PAY FOR ALL REQUIRED PERMITS, FEES, AND INSPECTIONS. COORDINATE WITH ALL OTHER TRADES, APPLICABLE SPECS, DRAWINGS, AND OWNER'S DIRECTIONS.

1.2 GENERAL CONDITIONS:

- A. SURVEY JOB SITE TO OBTAIN A FULL UNDERSTANDING OF THE WORK INVOLVED IN CONNECTION WITH ANY EXISTING CONDITIONS.
- B. PROVIDE NEW EQUIPMENT THAT IS BEARING ACCEPTANCE LABEL FROM CERTIFIED TESTING
- LABORATORY (UL OR OTHER AGENCY GENERALLY RECOGNIZED BY THE INDUSTRY).

 C. THE MECHANICAL DRAWINGS ARE GENERALLY DIAGRAMMATIC AND SHOW THE RELATIONSHIP BETWEEN EQUIPMENT AND CONNECTIONS. DO NOT SCALE THE DRAWINGS FOR EXACT SIZE OR LOCATIONS. FABRICATION AND/OR INSTALLATION DETAILS ARE MORE SPECIFIC AND SHOULD BE
- D. THE MECHANICAL SYSTEM(S) SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SUGGESTIONS AND RECOMMENDATIONS PLUS THE LATEST ADOPTED EDITIONS OF THE FOLLOWING CODES: THE INTERNATIONAL BUILDING CODE, THE INTERNATIONAL MECHANICAL CODE, THE INTERNATIONAL ENERGY CONSERVATION CODE, NFPA 90A AS WELL AS WITH ANY AND ALL OTHER APPLICABLE CODES, STANDARDS AND REGULATIONS.

1.3 COORDINATION OF WORK:

- A. THE GENERAL CONTRACTOR AND SUBCONTRACTORS, PARTICULARLY MECHANICAL AND ELECTRICAL, SHALL REVIEW OTHER SECTIONS OF WORK APPLICABLE TO THEIR WORK AND ASCERTAIN REQUIREMENTS IN OTHER SECTIONS APPLICABLE TO THEIR OWN WORK. EACH SHALL BE HELD RESPONSIBLE FOR COORDINATION AND INCLUSION OF THE WORK INDICATES AS IF IT WERE IN THE PARTICULAR SUBCONTRACTOR'S SECTION. THE DESIGNER SHALL BE ADVISED OF
- ANY DISCREPANCIES OR CONFLICTS AT THE EARLIEST MOMENT.

 B. ALL TAP FEES ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR INCLUDING WATER SEWER, GAS, ELECTRIC, AND OTHER CONNECTIONS
- C. MECHANICAL CONTRACTOR SHALL COORDINATE WITH PLUMBING CONTRACTOR PROVIDE PRIMARY AND SECONDARY CONDENSATE VALVES.

1.4 EQUIPMENT:

A. EQUIPMENT SELECTIONS AS SHOWN ON THE DRAWINGS ARE FOR DESIGN PURPOSES ONLY. ACTUAL INSTALLED EQUIPMENT MAY DIFFER FROM THAT SHOWN. EQUIPMENT TYPE, PHYSICAL SIZE, WEIGHT CAPACITIES AND PERFORMANCE CHARACTERISTICS SHALL BE GOVERNING FACTORS IN SUBMITTING SUBSTITUTIONS FOR REVIEW AND APPROVAL. COORDINATE EQUIPMENT ELECTRICAL REQUIREMENTS WITH ELECTRICAL DRAWINGS.

1.5 SUBMITTALS & ACCEPTANCE:

- A. UNLESS OTHERWISE INSTRUCTED, THE CONTRACTOR SHALL PROVIDE ONE (1) SET OF ELECTRONIC AND ONE (1) SET OF HARD COPY SHOP DRAWINGS ON HVAC EQUIPMENT TO THE PROJECT MANAGER FOR REVIEW AND APPROVAL PRIOR TO AND SUBSEQUENT TO PURCHASE OF EQUIPMENT. HVAC SUBMITTALS OF EQUIPMENT MUST BE CLEARLY IDENTIFIED AND BE REFERENCED WITH CORRESPONDING IDENTIFICATION MARKS FROM DRAWING SCHEDULES. THE SUBMITTALS MUST ALSO INCLUDE ALL RELATED ACCESSORIES.
- B. THE MECHANICAL SYSTEMS SHALL HAVE TESTING AND BALANCING PERFORMED BY AN INDEPENDENT CERTIFIED BALANCE CONTRACTOR. THIS CONTRACTOR SHALL PREPARE AND SUBMIT A COMPLETE REPORT SUBMITTED TO THE ENGINEER, IDENTIFYING ALL MAJOR PIECES OF HVAC EQUIPMENT AND AIR DISTRIBUTION DEVICES WITH PERFORMANCES AND FINAL AIR
- C. HVAC CONTRACTOR SHALL CHANGE OUT THE EQUIPMENT FILTERS AT THE TIME OF POSSESSION OF THE PROJECT BY THE OWNER, USING ONLY NEW FILTERS OF THE PROPER SIZE AND TYPE.
 D. HVAC CONTRACTOR SHALL REPAIR, REPLACE, OR REPAINT TO MATCH EXISTING SURFACES
- DAMAGED DURING INSTALLATION OF THE MECHANICAL SYSTEM.

 E. HVAC CONTRACTOR SHALL REMOVE FROM THE JOB SITE ANY MATERIALS NOT ECONOMICALLY RECOVERABLE. ANY MATERIALS REMOVED FROM THE JOB SITE AND SOLD FOR SALVAGE SHALL BE CREDITED TO THE OWNERS ACCOUNT.

PART 2. EQUIPMENT

2.1 GENERAL:

- A. COORDINATE THE LOCATIONS OF EQUIPMENT TO PROVIDE ALL NECESSARY CLEARANCES FOR MAXIMUM PERFORMANCE AND MAINTENANCE.
- B. PERMANENTLY IDENTIFY ALL EQUIPMENT AND SERVICES USING STENCILS, PLASTIC MARKERS OR TAGS. IN ADDITION, ALL MAJOR PIECES OF EQUIPMENT SHALL HAVE A PERMANENTLY AFFIXED NAMEPLATE ENGRAVED OR STAMPED WITH THE FOLLOWING MINIMUM INFORMATION (AS APPLICABLE): MANUFACTURER, MODEL NO., SIZE, SERIAL NO., HEATING/COOLING CAPACITIES (BTUH), FAN CAPACITY (CFM), GAS INPUT (BTUH), VOLTAGE, AMPS AND SERVICE FACTOR. NAMEPLATE SHALL BE LOCATED IN AN EASILY ACCESSIBLE AREA ON THE EQUIPMENT AND SHALL NOT BE COVERED OR OBSCURED. MANUFACTURER'S NAMEPLATE SHALL BE ACCEPTABLE PROVIDING THE ABOVE CRITERIA IS ADHERED TO. IDENTIFY ASSOCIATED PIECES OF EQUIPMENT WITH THE NUMBER OF ITS CORRESPONDING PIECE.
- C. ALL VALVES AND PIPING SPECIALTIES SHALL BE LINE SIZED UNLESS OTHERWISE NOTED. USE ECCENTRIC REDUCERS ON CONTROL VALVES WHERE REQUIRED.

2.2 REFRIGERANT PIPING:

- A. REFRIGERANT LIQUID AND SUCTION LINES SHALL BE SIZED AND INSTALLED IN ACCORDANCE WITH DX EQUIPMENT MANUFACTURER'S RECOMMENDATIONS, WITH ASHRAE STANDARDS AND WITH APPLICABLE DETAILS AND SPECIFICATIONS. WHERE CONDITIONS WARRANT, LENGTH OF RUN AND CHANGE IN ELEVATION SHALL BE CONSIDERATIONS IN SIZING REFRIGERANT LINES. REFRIGERANT LINES SHALL BE INSULATED USING 3/4" THICK, CLOSED CELL, ELASTOMERIC PIPE INSULATION. WHERE CONCEALED IN BUILDING SLAB CONSTRUCTION, ROUTE REFRIGERANT LINES THRU PVC CONDUIT.
- B. ALL PIPING INSULATION SHALL RUN CONTINUOUSLY THROUGH FLOORS, WALLS, AND PENETRATIONS.

2.3 DRAIN LINES

A. ALL CONDENSATE DRAIN LINES SHALL BE SCHEDULE 40 DWV-PVC PIPE AND FULL SIZE, OR LARGER, OF EQUIPMENT DRAIN. TRAP AND VENT AT EQUIPMENT. ROUTE TO NEAREST FLOOR DRAIN OR ELSEWHERE AS DIRECTED. MAINTAIN A MIN. 2" AIR GAP FROM DRAIN DISCHARGE TO DRAIN TOP.

2.4 POWER WIRING

A. PROVIDE STARTERS, INTERNAL PROTECTION, OR OTHER DEVICES INDICATED ON DRAWINGS. COORDINATE VOLTAGE, PHASE, AMPERAGE, AND OTHER REQUIREMENTS WITH ELECTRICAL DRAWINGS. UNLESS OTHERWISE NOTED, SERVICE DISCONNECTS SHALL BE PROVIDED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR.

2.5 SAFETY SHUTDOWN

A. ALL RECIRCULATING AIR HANDLING SYSTEMS 2,000 CFM AND GREATER AND/OR WHICH SERVE AN AREA HAVING A DIRECT MEANS OF EGRESS SHALL HAVE APPROVED SMOKE DETECTORS FURNISHED AND INSTALLED IN THE RETURN AIR STREAMS PRIOR TO MIXING WITH FRESH AIR MAKE-UP AND WHEN THE SYSTEMS ARE 15,000 CFM OR GREATER, IN THE SUPPLY AIR STREAMS AS WELL. THE SENSING DEVICES SHALL AUTOMATICALLY SHUT DOWN THE AIR HANDLER UNIT'S FAN AND SIGNAL THE FIRE ALARM SYSTEM IF SMOKE IS DETECTED. COORDINATE WITH THE ELECTRICAL DRAWINGS AND/OR FIRE ALARM EQUIPMENT SUPPLIER AND INSTALLER (AS APPLICABLE). THE SMOKE DETECTION DEVICE(S) SHALL BE PROVIDED AND INSTALLED BY THE MECHANICAL CONTRACTOR AND CONNECTED BY THE ELECTRICAL CONTRACTOR.

PART 3. DUCTWORK & DEVICES

3.1 FABRICATION:

- A. DUCTS SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF SMACNA "HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE" FOR +/- 1" W.G. PRESSURE APPLICATION. RECTANGULAR DUCTS SHALL HAVE PITTSBURGH LOCK LONGITUDINAL SEAMS AND DRIVE AND SLIP TRANSVERSE JOINTS. ROUND DUCTWORK SHALL HAVE SNAPLOCK LONGITUDINAL SEAMS OR BE SPIRAL WOUND DUCTWORK FABRICATED WITH A CONTINUOUS, MACHINE FORMED SEAM. EITHER TYPE ROUND DUCTWORK SHALL HAVE TRANSVERSE JOINTS FABRICATED AND SECURED PER SMACNA STANDARDS. SHEET METAL DUCTWORK SHALL BE FABRICATED FROM MINIMUM 26 GAUGE GALVANIZED SHEET STEEL, ASTM A-527. DUCTWORK TO BE PAINTED SHALL BE FABRICATED FROM PAINT-GRIP METAL AND WIPED CLEAN OF OIL BEFORE PAINT IS APPLIED. HANGERS SHALL BE IN ACCORDANCE WITH THE SMACNA STANDARDS RECOMMENDATIONS. MAXIMUM SPACING SHALL BE 8 FEET. PROVIDE SUPPORT WITHIN 2 FEET OF
- EACH TAKE OFF.

 B. ALL ROUND DUCTWORK ELBOWS SHALL BE RADIUS TYPE WITH CENTERLINE RADIUS EQUAL TO 1.5 X DIAMETER. RECTANGULAR DUCT ELBOWS SHALL BE RADIUS TYPE WITHCENTERLINE RADIUS EQUAL TO 1.5 X WIDTH WHERE INSTALLATION PERMITS. SQUARE THROATED ELBOWS WITH SINGLE WALL TURNING VANES SHALL BE USED WHERE RADIUS TYPE RECTANGULAR DUCT ELBOWS CAN NOT BE
- PRACTICALLY INSTALLED. FABRICATE AND INSTALL PER SMACNA STANDARDS.

 C. TO MINIMIZE NOISE TRANSMISSION THRU DUCTWORK AT LEAST ONE DUCT ELBOW (OR EQUIVALENT)
- SHALL BE INSTALLED BETWEEN UNIT AND ANY OUTLET OR INLET OPENING LOCATIONS.

 D. FLEXIBLE DUCTWORK AND ROUND DUCTWORK RUNOUTS SHALL BE ATTACHED TO RECTANGULAR MAINS USING CONICAL SPIN-IN FITTINGS OR BELL-MOUTH "STICK-ON" FITTINGS WITH ADHESIVE GASKETS. THE INLET RADIUS ON BELLMOUTH FITTINGS SHALL BE MIN. 1-1/2". BOTH TYPE FITTINGS SHALL BE EQUIPPED WITH MANUAL BALANCING DAMPERS WITH LOCKING QUADRANTS.
- E. BRANCH CONNECTIONS OFF OF ROUND DUCT MAINS SHALL BE MADE USING A DIVERGING FLOW, CONICAL TEE OR DIVERGING FLOW, COMBINATION TEE WITH 45° BOOT. IN NO CASE WILL STRAIGHT TEES BE ALLOWED.
- F. IN CONCEALED LOCATIONS WHERE SPACE PERMITS, ROUND DUCTWORK MAY BE SUBSTITUTED FOR RECTANGULAR, THE ROUND DUCT SHALL BE SIZED TO HAVE A FRICTION LOSS EQUAL TO OR LESS THAN THAT OF THE RECTANGULAR DUCT.
- G. INSTALL BALANCING DAMPERS AT ALL BRANCH DUCT TAKE-OFFS.
- H. INSTRUMENT TEST HOLES SHALL BE LOCATED IN ALL NEW SUPPLY, EXHAUST, AND RETURN DUCTS.
 I. ALL EQUIPMENT, DUCTWORK AND PIPING SHALL BE SEISMICALLY RESTRAINED IN ACCORDANCE WITH THE LOCAL CODES.
- J. ALL PIPING SHALL BE SUPPORTED ADJACENT TO EQUIPMENT, TO PREVENT WEIGHT OF PIPING BEING PLACED ON EQUIPMENT.
- K. ALL BALANCING DAMPERS SHALL BE LOCKED IN POSITION ONCE VOLUME BALANCE HAS BEEN ACHIEVED WITH A LOCKING QUADRANT.
- L. TAPE AND SEAL ALL JOINTS AND SEAMS ON SUPPLY DUCTS, RETURN DUCTS, EXHAUST DUCTS OUTSIDE AIR DUCTS AND PLENUMS.

3.2 INSULATION:

- A. ALL SHEET METAL SUPPLY AND RETURN DUCTWORK SHALL BE EXTERNALLY INSULATED (UNLESS OTHERWISE NOTED) WITH 1-1/2" THICK, 0.75 LB. DENSITY, FOIL FACED FIBERGLASS BLANKET TYPE INSULATION WITH VAPOR BARRIER ON OUTSIDE. DUCTWORK SHALL BE INSULATED IN ACCORDANCE WITH THE SMACNA CONSTRUCTION STANDARDS FOR INSULATION APPLICATION. INSULATION SHALL BE APPLIED CLEAN AND DRY. OUTSIDE AIR INTAKE DUCTWORK SHALL BE INSULATED WITH 1-1/2"
- FIBERGLASS BLANKET INSULATION. GENERAL EXHAUST DUCTWORK NEED NOT BE INSULATED.

 B. FOR SOUND ATTENUATION BOTH SUPPLY AND RETURN DUCTWORK CONNECTING TO AIR HANDLING UNIT AND FOR 10 LINEAR FEET OF DUCT ON EITHER SIDE OF UNIT SHALL BE INTERNALLY LINED PER SMACNA GUIDELINES. WHERE DUCTWORK IS TO BE INTERNALLY LINED FOR SOUND AND/OR FOR THERMAL INSULATION, APPLY 1" THICK 1.5 LB. DENSITY FIBERGLASS MAT WITH FIRE RESISTANT COATING ON AIRSTREAM SIDE USING APPROPRIATE FASTENERS AND ADHESIVES (OWENS-CORNING AEROFLEX PLUS OR APPROVED EQUAL COMPLYING WITH ASTM C 665).

3.3 FLEXIBLE DUCT:

A. ALL FLEXIBLE DUCTWORK SHALL BE INSULATED TYPE FOR LOW PRESSURE APPLICATIONS. FLEXIBLE DUCTWORK SHALL BE UL LISTED FOR UL181 CLASS 1 AIR DUCT MATERIAL AND SHALL COMPLY WITH NFPA STANDARDS 90A AND 90B. MAXIMUM LENGTH OF RUN SHALL BE 5'-0" AND SHALL BE INSTALLED FREE OF ABRUPT TURNS AND ANY REDUCTION IN CROSS-SECTIONAL AREA.

3.4 OUTSIDE AIR DUCT

A. UNLESS OTHERWISE NOTED, OUTSIDE AIR DUCT SHALL CONNECT TO RETURN AIR MAINS DOWNSTREAM OF ANY RETURN AIR TAKEOFFS. PROVIDE A 2-POSITION MOTORIZED DAMPER, FULL SIZE OF THE OUTSIDE AIR DUCT AS SHOWN ON THE FLOOR PLAN, TO BE OPEN WHENEVER THE THERMOSTAT IS IN OCCUPIED MODE AND CLOSED WHENEVER IN UNOCCUPIED MODE.

3.5 PENETRATIONS:

A. SLEEVES SHALL BE INSTALLED WHERE DUCTS, LOUVERS, OR PIPING PENETRATE NON-RATED EXTERIOR WALLS, PARTITIONS, FLOORS, OR ROOF. PACK AROUND SLEEVES AND SEAL WEATHER TIGHT. INSTALL FLASHING AND COUNTER FLASHING. SLEEVES SHALL BE MINIMUM 16 GAUGE GALVANIZED STEEL AND SHALL BE FIRMLY SET IN BUILDING STRUCTURE.

3.6 MISCELLANEOUS:

- A. THE FINAL LOCATION OF AIR DISTRIBUTION DEVICES AND RETURN GRILLES SHALL BE ADJUSTED AS NECESSARY TO CLEAR THE BUILDING STRUCTURAL SYSTEM. COORDINATE LOCATION OF CEILING DIFFUSERS AND RETURNS WITH ARCHITECTURAL REFLECTED CEILING PLAN AND THE INSTALLED CEILING GRID SYSTEM.
- B. RECORD DRAWINGS: MAINTAIN A RECORD OF ALL CHANGES AND SUBSTITUTIONS BETWEEN WORK AS SPECIFIED AND AS INSTALLED. RECORD CHANGES ON A CLEAN SET OF CONTRACT DOCUMENTS WHICH SHALL BE TURNED OVER TO THE OWNER UPON COMPLETION OF PROJECT.

PART 4. CONTROLS

4.1 GENERAL:

A. PROVIDE CONTROLS REQUIRED TO OPERATE EQUIPMENT AND AS INDICATED ON DRAWINGS. WIRE AND CONNECT AS REQUIRED.

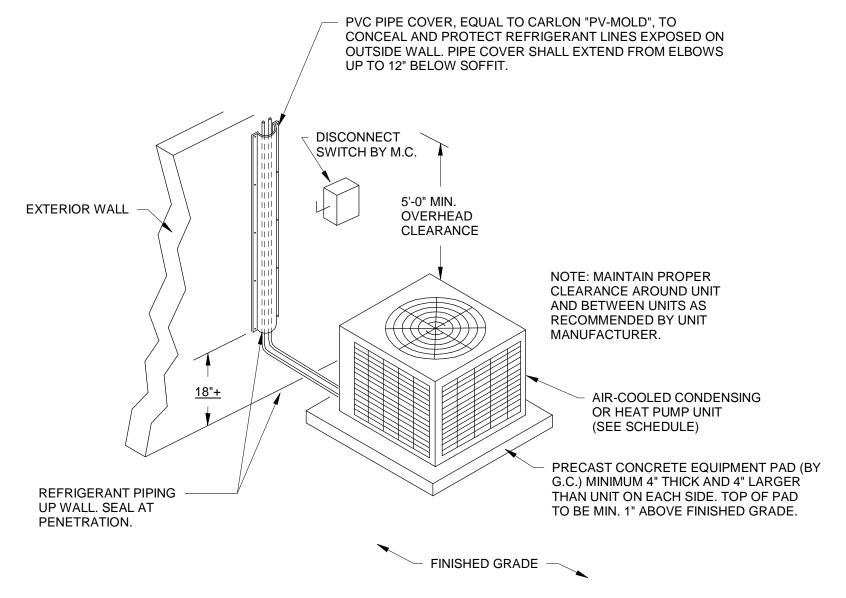
4.2 THERMOSTATS:

A. UNLESS OTHERWISE NOTED, ALL THERMOSTATS SHALL BE REMOTE TYPE, 7-DAY PROGRAMMABLE AND SHALL BE WALL MOUNTED AT 5'-6" AFF. (INSTALL AT 4'-0" AFF WHERE REQUIRED AND/OR AS DIRECTED TO MEET HANDICAP ACCESSIBILITY). THE ASSOCIATED AIR HANDLING UNIT SUPPLY AIR FAN SHALL BE SET TO RUN CONTINUOUSLY WHEN ITS THERMOSTAT IS IN AN OCCUPIED MODE AND ONLY WHEN CALLED FOR WHEN IT IS IN AN UNOCCUPIED MODE. THERMOSTATS SHALL BE EQUIPPED WITH A MANUAL OVERRIDE BUTTON TO TEMPORARILY CHANGEOVER FROM UNOCCUPIED MODE TO OCCUPIED MODE ON DEMAND.

4.3 CONTROL WIRING:

A. CONTROLS SHALL BE INSTALLED IN ACCORDANCE WITH CONTROL MANUFACTURER'S SUGGESTIONS AND RECOMMENDATIONS. CONTROL WIRING AND CONTROL WIRING CONNECTIONS TO HVAC EQUIPMENT SHALL BE BY THE MECHANICAL CONTRACTOR. ALL EXPOSED CONTROL WIRING THAT MAY BE SUBJECTED TO PHYSICAL DAMAGE SHALL BE ROUTED IN CONDUIT.

NOTE: REFERENCE ARCHITECT'S PROJECT SPREADSHEET FOR BUILDING ADDRESSES AND EQUIPMENT REPLACEMENT TYPES.



TYPICAL CONDENSING/ HEAT PUMP UNIT INSTALLATION DETAIL WITH WALL COVER MO.1 SCALE: NTS

PROVIDE NEW ELECTRICAL DISCONNECT. PROVIDED BY MECHANICAL INSTALLED BY ELECTRICAL.

PROVIDE NEW ELECTRICAL DISCONNECT. PROVIDED BY MECHANICAL INSTALLED BY ELECTRICAL.

PROVIDE HIGH WATER LEVEL FLOAT SWITCH IN DRAIN PAN TO SHUT THE UNIT OFF.

| CAPTY (MBH) | CFM | CF

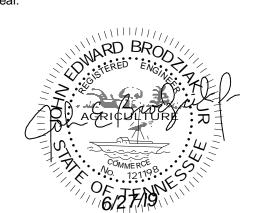
SPLIT SYSTEM - GAS FURNACE SCHEDULE (W/ COOLING COIL) ESP COOLCAP. HEAT CAP FAN O.A. (IN. (MBH) @ ARI (MBH) ASSOC. MFR MODEL NO. CFM CFM W.G.) TOTAL SENS INPUT OUTPUT HP SEER @ ARI V Ø HZ MCA MOCP (LBS) REMARKS IDENT. GF-1 | CARRIER | 59SP5A060E17--14 + CAPMP2417ALA | 800 | 80 | 0.50 | 24.0 | 17.3 | 60.0 | 58.0 | HP-1 16 | 115 | 1 | 60 | 5.6 | 15 | 197.0 | 1-7 GF-2 | CARRIER | 59SP5A080E17--16 + CAPMP3617ALA | 1200 | 120 | 0.50 | 33.6 | 24.7 | 80.0 | 78.0 | HP-2 | 15 | 115 | 1 | 60 | 12.4 | 15 | 207.0 | 15 115 1 60 12.4 15 207.0 1-7 GF-3 CARRIER 59SP5A080E17--16 + CAPMP3617ALA 1200 120 0.50 33.6 24.7 80.0 78.0 HP-3 GF-4 | CARRIER | 59SP5A080E17--16 + CAPMP3617ALA | 1200 | 120 | 0.50 | 33.6 | 24.7 | 80.0 | 78.0 | HP-4 | 15 | 115 | 1 | 60 | 12.4 | 15 | 207.0 | 1-7 REMARKS: OR ENGINEER APPROVED SUBSTITUTION MOUNT IN ATTIC HORIZONTALLY AND REPLACE EXISTING UNIT. CONNECT TO EXISTING DUCTWORK AND VENTS. CONNECT TO EXISTING CONDENSATE PIPE. CONNECT TO EXISTING ELECTRICAL CONNECTIONS. FIELD VERIFY MOCP & WIRE SIZE.

			CAPACITY	LING ((MBH) @ OND.	ASSOC.						WEIGHT	
IDENT.	MFR	MODEL NO.	TOTAL	SENS.	GPU	٧	Ø	SEER	MCA	MOCP	(LBS)	REMARKS
HP-1	CARRIER	24ABC624A003	24.0	17.3	GPU-1	208	1	15.5	17.7	30	147	1-5
HP-2	CARRIER	24ABC636A003	33.6	24.7	GPU-2	208	1	16	18.1	30	165	1-5
HP-3	CARRIER	24ABC636A003	33.6	24.7	GPU-3	208	1	16	18.1	30	165	1-5
HP-4	CARRIER	24ABC636A003	33.6	24.7	GPU-4	208	1	16	18.1	30	165	1-5
2. MO 3. RO	ENGINEER UNT ON EXI	APPROVED SUBST STING CONCRETE EFRIGERANT LINES	PAD. S. SEE DETA						•			



322 Nancy Lynn Lane Suite 9, Knoxville, TN 37919 Phone (865) 546-3232

Moving Your Vision Forward



No.	Date	Description

Project No.:		191
Orawn By:		Lf
ng. Check	Dept. Check	QA. Che

This drawing, as an instrument of service, is the property of HODGE Engineering. It may not be copied in whole or in part without the written permission of HODGE Engineering. HODGE Engineering denies any and all responsibility or liability for problems which arise from failure to follow these plans, specifications and design intent they convey, or problems which arise from other's failure to obtain and/or follow the design professional's guidance with respect to any error, omissions, inconsistencies, ambiguities or conflicts which are alleged.

ALTERATIONS
TO PASSPORT
PROPERTIES

_

KNOXVILLE, TN

Sheet Contents:

MECHANICAL NOTES AND SCHEDULES

27 June, 2019

Sheet Number:

OF 1