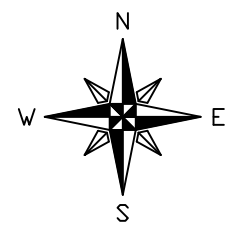
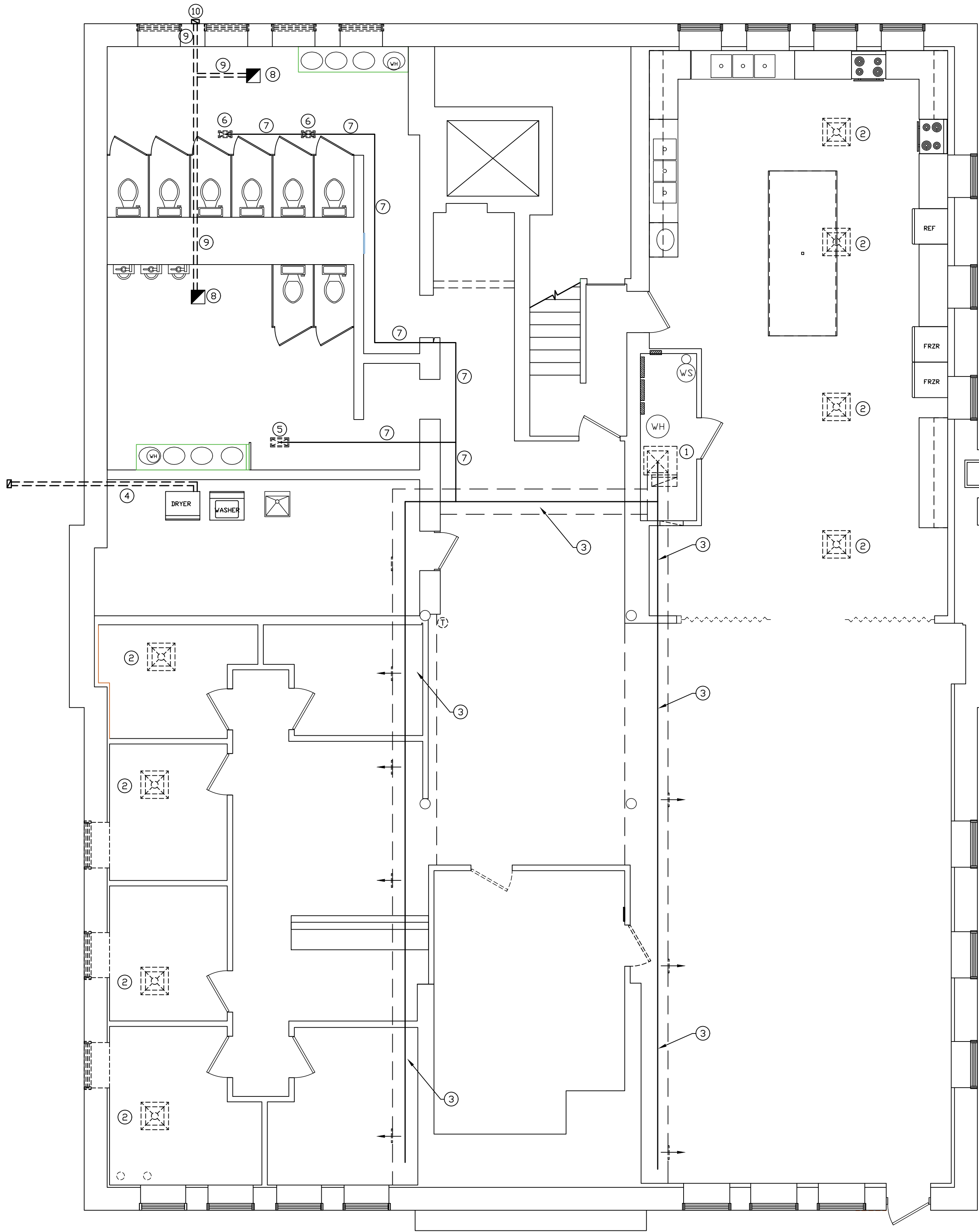


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LOWER LEVEL DEMOLITION  
MECHANICAL PLAN  
SCALE: 3/16" = 1'-0"

NUMBERED NOTES:

- 1 REMOVE EXISTING GAS FURNACE COMPLETE.
- 2 REMOVE EXISTING SAG GRILLE AND DUCTWORK SUPPLYING SAG.
- 3 REMOVE ALL EXISTING DUCTWORK WHICH IS EXPOSED OR IN BULKHEADS. ALSO REMOVE ALL RUN OUTS TO EXISTING SAG.
- 4 REMOVE ALL EXISTING DUCTWORK FOR EXISTING DRYER VENTING.
- 5 EXISTING 14"x6" CEILING SAG LOCATION RE-INSTALL IN NEW CEILING
- 6 EXISTING 10"x6" CEILING SAG LOCATION RE-INSTALL IN NEW CEILING
- 7 EXISTING DUCTWORK REMAINS
- 8 EXISTING EXHAUST FAN LOCATION RE-INSTALL IN NEW CEILING
- 9 EXISTING EXHAUST DUCTS REMOVE COMPLETE
- 10 REMOVE EXISTING WALL CAP COMPLETE

CONSTRUCTION PHASING NOTE:

REFER TO CONSTRUCTION PHASING DRAWINGS #PH1, #PH2, AND #PH3 FOR THE CONSTRUCTION SEQUENCE OF THE PROJECT.

GENERAL NOTES:

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DATE	REVISIONS	BY



WABASH VALLEY HEALTH CENTER, INC.  
1436 LOCUST STREET  
TERRE HAUTE, INDIANA 47807

BUILDING ADDITIONS & RENOVATION

**MICHAEL R. WALDBIESER**  
ENGINEER & CONSULTING, INC.  
STRUCTURAL, PLUMBING, MECHANICAL, ELECTRICAL, ENERGY

SYCAMORE BUILDING  
19 SOUTH 66th STREET, SUITE 804  
TERRE HAUTE, INDIANA 47807

PHONE: (812) 232-6510

SCALE: 3/16" = 1'-0"

DATE: 09-11-19

DRAWN BY: MRW

APPROVED BY: MRW

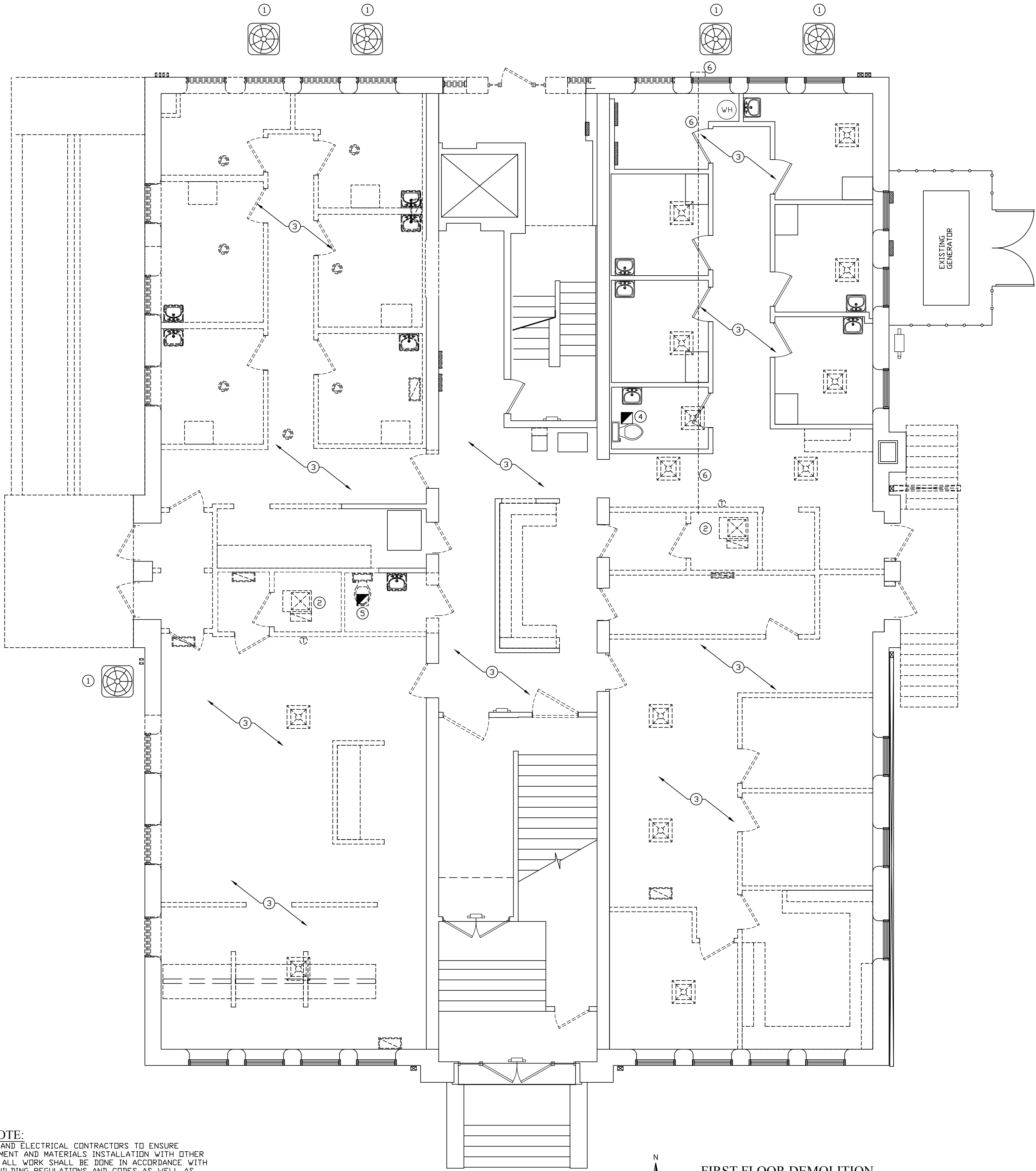
PROJECT: 18-20  
FILE: MECH #F

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GOVERNING CODES

2014 INDIANA BUILDING CODE  
(IBC 2012 EDITION - WITH INDIANA AMENDMENTS)  
2014 INDIANA FIRE CODE  
(IFC 2012 EDITION - WITH INDIANA AMENDMENTS)  
2012 INDIANA PLUMBING CODE  
(IPC 2006 EDITION - WITH INDIANA AMENDMENTS)  
2014 INDIANA MECHANICAL CODE  
(IMC 2012 EDITION - WITH INDIANA AMENDMENTS)  
2010 INDIANA ENERGY CONSERVATION CODE  
(ANSI/ASHRAE 90.1 - 2007 EDITION - WITH INDIANA AMENDMENTS)  
2009 INDIANA ELECTRICAL CODE  
(NEC 2008 EDITION - WITH INDIANA AMENDMENTS)

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FIRST FLOOR DEMOLITION  
MECHANICAL PLAN  
SCALE: 3/16" = 1'-0"

NUMBERED NOTES:

- 1 REMOVE EXISTING A/C UNIT COMPLETE.  
REMOVE ALL EXISTING SUPPLY AND SUCTION LINES.  
REMOVE ALL COVERS COVERING THE LINES.  
FILL HOLES IN EXTERIOR WALL OF BUILDING.
- 2 REMOVE EXISTING GAS FURNACE COMPLETE.  
INCLUDING GAS PIPING, CONDENSATE PUMPS, ETC.
- 3 REMOVE ALL EXISTING DUCTWORK (SA & RA),  
SUPPLY AIR GRILLES, AND RETURN AIR GRILLES  
ON THE FIRST FLOOR OF THE BUILDING.
- 4 EXISTING EXHAUST FAN LOCATION.  
INSTALL EXISTING EXHAUST FAN IN  
NEW SUSPENDED CEILING AND CONNECT TO  
EXISTING DUCTWORK AS REQUIRED.
- 5 REMOVE EXISTING EXHAUST FAN AND ALL  
ASSOCIATED DUCTWORK COMPLETE.
- 6 REMOVE DUCTWORK AND EXTERIOR INTAKE COMPLETE.

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WABASH VALLEY HEALTH CENTER, INC.  
1436 LOCUST STREET  
TERRE HAUTE, INDIANA 47807  
BUILDING ADDITIONS & RENOVATION

**MICHAEL R. WALDBIESER**  
ENGINEER & CONSULTING, INC.  
STRUCTURAL, PLUMBING, MECHANICAL & ELECTRICAL DESIGN  
SYCAMORE BUILDING  
19 SOUTH 66th STREET, SUITE 804  
TERRE HAUTE, INDIANA 47807

PHONE: (812) 232-6510

SCALE: 3/16" = 1'-0"

DATE: 09-11-19

DRAWN BY: MRW

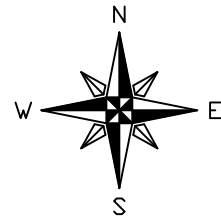
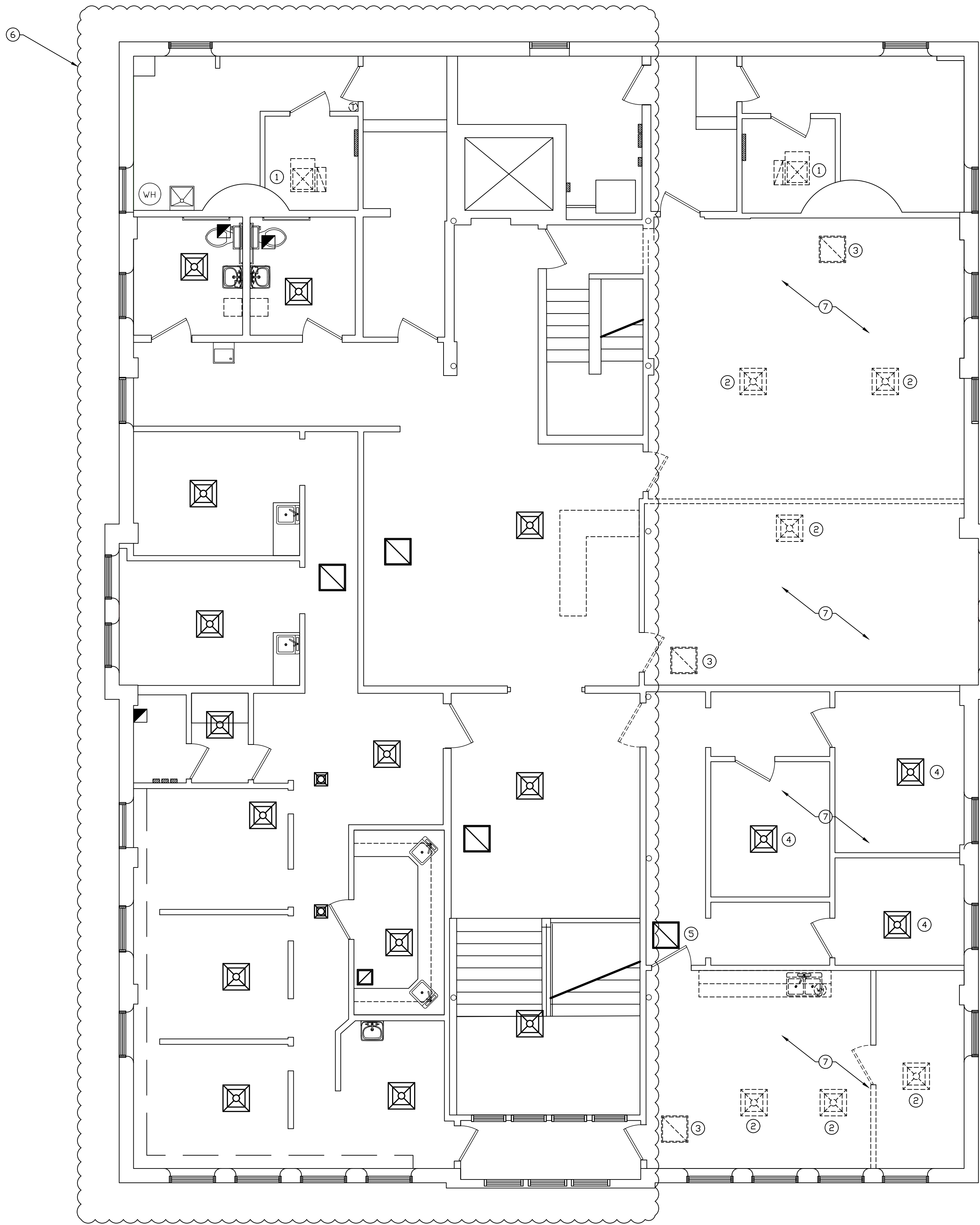
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PROJECT: 18-20  
FILE: MECH #F

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SECOND FLOOR DEMOLITION  
MECHANICAL PLAN  
SCALE: 3/16" = 1'-0"

NUMBERED NOTES:

- 1 REMOVE EXISTING GAS FURNACE COMPLETE.
- 2 REMOVE EXISTING SAG GRILLE AND DUCTWORK SUPPLYING SAG.
- 3 REMOVE EXISTING RAG GRILLE AND DUCTWORK SUPPLYING RAG.
- 4 EXISTING SAG GRILLE AND DUCTWORK SUPPLYING SAG REMAINS. CONNECT TO NEW DUCTWORK SHOWN.
- 5 EXISTING RAG GRILLE AND DUCTWORK SUPPLYING RAG REMAINS. CONNECT TO NEW DUCTWORK SHOWN.
- 6 ALL EXISTING SAG, RAG, AND DUCTWORK REMAINS. CONNECT EXISTING DUCTWORK (SA AND RA) TO NEW GAS FURNACE INDICATED ON THE DRAWINGS.
- 7 REMOVE ALL EXISTING DUCTWORK (SA & RA) TO INSTALL NEW DUCTWORK SHOWN.

GENERAL NOTES:

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BUILDING ADDITIONS & RENOVATION

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19 SOUTH 66th STREET, SUITE 804  
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PHONE: (812) 232-6510

SCALE: 3/16" = 1'-0"

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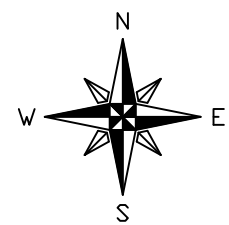
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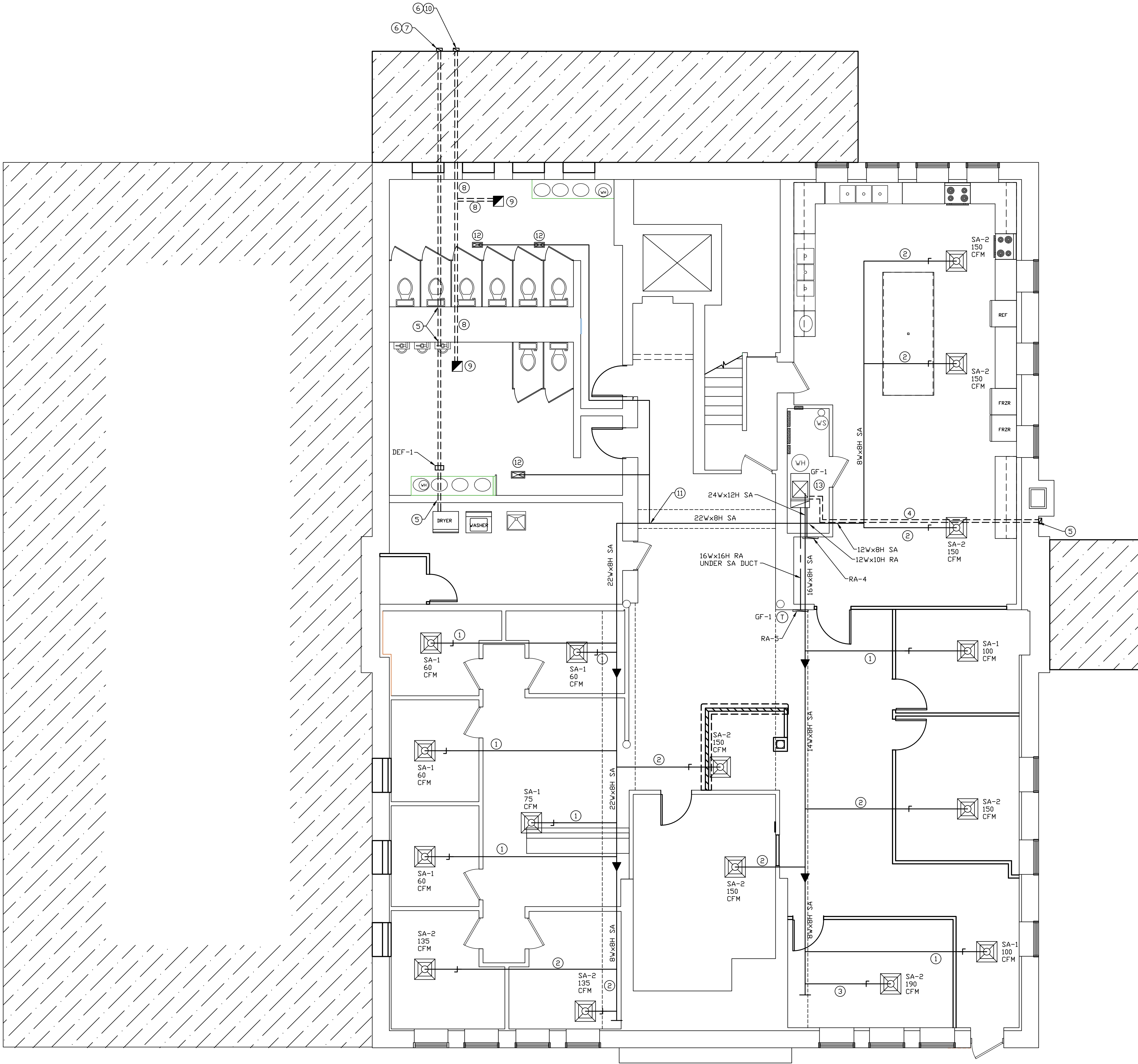
PROJECT: 18-20  
FILE: MECH #F

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LOWER LEVEL NEW  
MECHANICAL PLAN  
SCALE: 3/16" = 1'-0"



NUMBERED NOTES:

- 6" GALVANIZED DUCT W/ MINIMUM R-3.5 INSULATION WRAP WITH VAPOR BARRIER. TOP TAP FROM NEW DUCTWORK AND RUN BETWEEN EXISTING 2X WOOD FLOOR JOISTS.
- 7" GALVANIZED DUCT MINIMUM R-3.5 INSULATION WRAP WITH VAPOR BARRIER. TOP TAP FROM NEW DUCTWORK AND RUN BETWEEN EXISTING 2X WOOD FLOOR JOISTS.
- 8" GALVANIZED DUCT MINIMUM R-3.5 INSULATION WRAP WITH VAPOR BARRIER. TOP TAP FROM NEW DUCTWORK AND RUN BETWEEN EXISTING 2X WOOD FLOOR JOISTS.
- CONCENTRIC VENT KIT FOR COMBUSTION AIR AND EXHAUST GASES THRU THE SIDEWALL OF THE BUILDING. INSTALL BETWEEN EXISTING 2X FLOOR JOISTS. CORE DRILL EXISTING EXTERIOR BRICK WALL AS REQUIRED.
- CORE DRILL EXISTING WALL AS REQUIRED BY M.C.
- COORDINATE TERMINATION WITH GENERAL CONTRACTOR.
- 4" DIAMETER TERMINATION FOR LAUNDRY DRYER WITH BACKDRAFT DAMPER AND BIRDSCREEN. COLOR SELECTED BY OWNER. PLASTIC NOT ALLOWED. DRILLING OF EXTERIOR WALL BY GENERAL CONTRACTOR. DUCTWORK SHALL BE GALVANIZED STEEL WITH SEALED JOINTS. PROVIDE AND INSTALL DRYER EXHAUST DUCT POWER VENTILATOR WHERE SHOWN. COAT ALL DUCTWORK UNDER NORTH ADDITION WITH ASPHALT COATING AND SEAL ALL JOINTS.
- NEW GALVANIZED DUCTWORK WITH SEALED JOINTS AND R-3.5 INSULATION WRAP. MATCH EXISTING SIZE WHICH IS DEMOLISHED.
- EXISTING EXHAUST FAN INSTALLED IN NEW CEILING.
- TERMINATION FOR RESTROOM EXHAUST FANS. MATCH EXISTING SIZE. WITH BACKDRAFT DAMPER AND BIRDSCREEN. COLOR SELECTED BY OWNER. PLASTIC NOT ALLOWED. DRILLING OF EXTERIOR WALL BY GENERAL CONTRACTOR. DUCTWORK SHALL BE GALVANIZED STEEL WITH SEALED JOINTS. COAT ALL DUCTWORK UNDER NORTH ADDITION WITH ASPHALT COATING AND SEAL ALL JOINTS.
- CONNECT EXISTING DUCTWORK TO NEW DUCTWORK AS REQUIRED.
- CONNECT EXISTING SAG TO EXISTING DUCTWORK IN NEW SUSPENDED CEILING.
- PROVIDE AND INSTALL CONDENSATE PUMP AT THIS LOCATION AS REQUIRED.

GENERAL DUCTWORK NOTES LOWER LEVEL:

- ALL SUPPLY AND RETURN AIR DUCTWORK SHALL BE GALVANIZED SHEET METAL. INTERIOR SUPPLY AIR DUCTWORK SHALL BE INSTALLED TIGHT TO CEILING. COORDINATE LOCATION WITH GENERAL CONTRACTOR AND EXISTING CONDITIONS. 1/2" LINER INSULATION ON DUCTWORK LOCATED IN BULKHEADS.
- ALL TAPS SHALL BE ON THE TOP OF THE DUCTWORK.
- ALL SUPPLY AIR FLEXIBLE DUCT SHALL HAVE AN R-VALUE OF 3.5 IN.
- ALL RETURN AIR FLEXIBLE DUCT SHALL HAVE AN R-VALUE OF 3.5 IN.
- ALL SUPPLY AND RETURN DUCTWORK SHALL BE SEALED WITH A CLASS "A" LIQUID SEALER PRIOR TO EXTERNAL INSULATION INSTALLATION.
- IS A VOLUME DAMPER LOCATION. LOCATED IN 2X FLOOR JOIST SPACE. HORIZONTAL LOCATION.

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DATE	REVISIONS	BY



WABASH VALLEY HEALTH CENTER, INC.  
1436 LOCUST STREET  
TERRE HAUTE, INDIANA 47807

BUILDING ADDITIONS & RENOVATION

**MICHAEL R. WALDBIESER**  
ENGINEER & CONSULTING, INC.  
STRUCTURAL, PLUMBING, MECHANICAL & ELECTRICAL DESIGN

PHONE: (812) 232-6510

SYCAMORE BUILDING  
19 SOUTH 66th STREET, SUITE 804  
TERRE HAUTE, INDIANA 47807

SCALE: 3/16" = 1'-0"

DATE: 09-11-19

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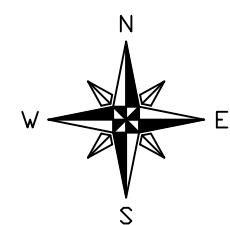
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PROJECT: 18-20  
FILE: MECH #F

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FIRST FLOOR NEW  
MECHANICAL PLAN  
SCALE: 3/16" = 1'-0"

NUMBERED NOTES:

- 6" FLEXIBLE DUCT  
MINIMUM R-3.5 INSULATION  
MAXIMUM LENGTH = 5'-0"
- 7" FLEXIBLE DUCT  
MINIMUM R-3.5 INSULATION  
MAXIMUM LENGTH = 5'-0"
- 8" FLEXIBLE DUCT  
MINIMUM R-3.5 INSULATION  
MAXIMUM LENGTH = 5'-0"
- 10" FLEXIBLE DUCT  
MINIMUM R-3.5 INSULATION  
MAXIMUM LENGTH = 5'-0"
- 12" FLEXIBLE DUCT  
MINIMUM R-3.5 INSULATION  
MAXIMUM LENGTH = 5'-0"
- CONCENTRIC VENT KIT FOR COMBUSTION AIR AND EXHAUST GASES  
THRU THE SIDEWALL OF THE BUILDING. INSTALL AT CEILING LINE IN ROOM.
- PROVIDE 10" GALVANIZED METAL DUCT FROM RETURN AIR OF UNIT TO WALL MOUNTED FRESH AIR INTAKE WITH MANUAL DAMPER IN DUCTWORK.  
FRESH AIR INTAKE METAL DUCT SHALL BE HAVE R-3.5 INSULATION WRAP.  
FRESH AIR INTAKE SHALL BE BROAD #610FA.  
PITCH LAST 4'-0" OF DUCTWORK TOWARD FRESH AIR WALL MOUNTED INTAKE.  
MAXIMUM AIR INTAKE = 150 CFM
- INSTALL CONDENSATE PUMP AT THIS  
LOCATION AS REQUIRED.
- CORE DRILL EXISTING WALL AS REQUIRED
- CONNECT NEW DUCTWORK TO EXISTING SUPPLY  
AIR GRILLE IN WALL.
- 6" GALVANIZED DUCT  
MINIMUM R-3.5 INSULATION  
WRAP WITH VAPOR BARRIER
- 7" GALVANIZED DUCT  
MINIMUM R-3.5 INSULATION  
WRAP WITH VAPOR BARRIER
- 8" GALVANIZED DUCT  
MINIMUM R-3.5 INSULATION  
WRAP WITH VAPOR BARRIER
- 10" GALVANIZED DUCT  
MINIMUM R-3.5 INSULATION  
WRAP WITH VAPOR BARRIER

GENERAL DUCTWORK NOTES:

- ALL SUPPLY AND RETURN AIR DUCTWORK SHALL BE GALVANIZED SHEET METAL.
- ALL SUPPLY AIR DUCTWORK INSIDE THE BUILDING SHALL BE EXTERNALLY INSULATED WITH OWENS CORNING 1.5" SDFTR DUCT WRAP FRK WITH AN INSTALLED R-VALUE OF 4.2.
- ALL RETURN AIR DUCTWORK SHALL BE EXTERNALLY INSULATED WITH OWENS CORNING 1.5" SDFTR DUCT WRAP FRK WITH AN INSTALLED R-VALUE OF 4.2.
- ALL SUPPLY AIR FLEXIBLE DUCT SHALL HAVE AN R-VALUE OF 3.5 IN.
- ALL RETURN AIR FLEXIBLE DUCT SHALL HAVE AN R-VALUE OF 3.5 IN.
- ALL SUPPLY AND RETURN DUCTWORK SHALL BE SEALED WITH A CLASS "A" LIQUID SEALER PRIOR TO EXTERNAL INSULATION INSTALLATION.
- IS A VOLUME DAMPER LOCATION.

GENERAL NOTES:

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BUILDING ADDITIONS & RENOVATION

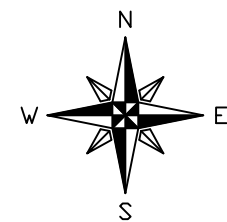
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19 SOUTH 6th STREET, SUITE 804  
TERRE HAUTE, INDIANA 47807  
PHONE: (812) 232-6510

SCALE: 3/16" = 1'-0"	PROJECT: 18-20
DATE: 09-11-19	FILE: MECH #F
DRAWN BY: MRW	APPROVED BY: MRW

M2.1



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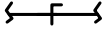


SECOND FLOOR NEW  
MECHANICAL PLAN  
SCALE: 3/16" = 1'-0"

NUMBERED NOTES:

- 6" FLEXIBLE DUCT  
MINIMUM R-3.5 INSULATION  
MAXIMUM LENGTH = 5'-0"
- 7" FLEXIBLE DUCT  
MINIMUM R-3.5 INSULATION  
MAXIMUM LENGTH = 5'-0"
- 8" FLEXIBLE DUCT  
MINIMUM R-3.5 INSULATION  
MAXIMUM LENGTH = 5'-0"
- 10" FLEXIBLE DUCT  
MINIMUM R-3.5 INSULATION  
MAXIMUM LENGTH = 5'-0"
- CONCENTRIC VENT KIT FOR COMBUSTION AIR AND EXHAUST GASES  
THRU THE SIDEWALL OF THE BUILDING. INSTALL AT CEILING LINE IN ROOM.
- CORE DRILL EXISTING WALL AS REQUIRED
- CONNECT EXISTING DUCTWORK TO  
NEW DUCTWORK AS REQUIRED.
- 8" GALVANIZED DUCT  
MINIMUM R-3.5 INSULATION  
WRAP WITH VAPOR BARRIER
- 10" GALVANIZED DUCT  
MINIMUM R-3.5 INSULATION  
WRAP WITH VAPOR BARRIER

GENERAL DUCTWORK NOTES:

- ALL SUPPLY AND RETURN AIR DUCTWORK SHALL BE GALVANIZED SHEET METAL.
- ALL SUPPLY AIR DUCTWORK INSIDE THE BUILDING SHALL BE EXTERNALLY INSULATED WITH OWENS CORNING 1.5" SDFT R DUCT WRAP FRK WITH AN INSTALLED R-VALUE OF 4.2.
- ALL RETURN AIR DUCTWORK SHALL BE EXTERNALLY INSULATED WITH OWENS CORNING 1.5" SDFT R DUCT WRAP FRK WITH AN INSTALLED R-VALUE OF 4.2.
- ALL SUPPLY AIR FLEXIBLE DUCT SHALL HAVE AN R-VALUE OF 3.5 IN.
- ALL RETURN AIR FLEXIBLE DUCT SHALL HAVE AN R-VALUE OF 3.5 IN.
- ALL SUPPLY AND RETURN DUCTWORK SHALL BE SEALED WITH A CLASS "A" LIQUID SEALER PRIOR TO EXTERNAL INSULATION INSTALLATION.
-  IS A VOLUME DAMPER LOCATION.

GENERAL NOTES:

- ALL CONTRACTORS AND SUB-CONTRACTORS SHALL REVIEW ALL DRAWINGS FOR WORK PERFORMED BY THAT CONTRACTOR.
- ALL WALLS INDICATED ON THE ARCHITECTURAL PLANS AS FIRE RATED SHALL BE PROPERLY FIRE CAULKED FOR ALL PENETRATIONS.

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DATE	REVISIONS	BY



WABASH VALLEY HEALTH CENTER, INC.  
1436 LOCUST STREET  
TERRE HAUTE, INDIANA 47807

BUILDING ADDITIONS & RENOVATION

**MICHAEL R. WALDBIESER**  
ENGINEER & CONSULTING, INC.  
STRUCTURAL, PLUMBING, MECHANICAL & ELECTRICAL DESIGN

SYCAMORE BUILDING  
19 SOUTH 66th STREET, SUITE 804  
TERRE HAUTE, INDIANA 47807

PHONE: (812) 232-6510

SCALE: 3/16" = 1'-0"

DATE: 09-11-19

DRAWN BY: MRW

APPROVED BY: MRW

PROJECT: 18-20  
FILE: MECH #F

M2.2



GAS FURNACE SCHEDULE												
MARK	MFG.	MODEL	COOLING TONS / STAGES	HEATING-GAS STAGE 1 INPUT/OUTPUT	HEATING-GAS STAGE 2 INPUT/OUTPUT	HEATING EFFICIENCY	CFM @ ESP	VOLTAGE	MCA	MOCP	FRESH AIR	OPTIONS
GF-1	CARRIER	59TP6-080-E21-20	5 / 2 STAGES	52,000 / 51,000	80,000 / 78,000	+96 %	2000 @ .5 COOLING	120 VOLT / 1 PHASE	14.7 AMPS	20 AMPS	CFM	1, 2, 3, 4, 5, 6, 8
GF-2	CARRIER	59TP6-060-E17-14	3 / 2 STAGES	39,000 / 39,000	60,000 / 58,000	+96 %	1200 @ .5 COOLING	120 VOLT / 1 PHASE	14.5 AMPS	15 AMPS	100 CFM	1, 2, 3, 4, 6, 8
GF-3	CARRIER	59TP6-100-E21-20	5 / 2 STAGES	65,000 / 63,000	100,000 / 97,000	+96 %	2000 @ .5 COOLING	120 VOLT / 1 PHASE	14.7 AMPS	20 AMPS	100 CFM	1, 2, 3, 4, 5, 6
GF-4	CARRIER	59TP6-100-E21-20	5 / 2 STAGES	65,000 / 63,000	100,000 / 97,000	+96 %	2000 @ .5 COOLING	120 VOLT / 1 PHASE	14.7 AMPS	20 AMPS	CFM	1, 2, 3, 4, 5, 6
GF-5	CARRIER	59TP6-100-E21-20	5 / 2 STAGES	65,000 / 63,000	100,000 / 97,000	+96 %	2000 @ .5 COOLING	120 VOLT / 1 PHASE	14.7 AMPS	20 AMPS	CFM	1, 2, 3, 4, 5, 6, 7

GAS FURNACE OPTIONS:

- UNIT AIR BALANCE SHALL BE DONE IN COOLING MODE
- UP FLOW VERTICAL SUPPLY
- RETURN SHALL BE ON BOTTOM OF UNIT
- 7 DAY PROGRAMMABLE T-STAT AT LOCATION SHOWN
- CONCENTRIC VENT KIT THRU SIDEWALL
- SMOKE DETECTOR FOR SHUT DOWN OF UNIT UPON DETECTION OF SMOKE MOUNTED IN RETURN DUCT OF UNIT.
- FLEXIBLE CONNECTION OF SUPPLY AND RETURN DUCTWORK TO UNIT.
- PROVIDE REMOTE TEMPERATURE SENSOR FOR TEMPERATURE AVERAGING AND CONTROL OF UNIT.
- PROVIDE AND INSTALL CONDENSATE PUMP FOR UNIT.

MFG NOTE:

EQUALS BY BRYANT OR TRANE ARE ACCEPTED.  
ALL OTHER MUST BE APPROVED BY THE ENGINEER OF RECORD.

AIR CONDITIONER SCHEDULE								
MARK	MFG.	MODEL	COOLING TONS / STAGES	SEER	VOLTAGE	MCA	MOCP	OPTIONS
AC-1	CARRIER	24ACB760AB03	5 / 2 STAGE	15.5	208 VOLT / 1 PHASE	37.3 AMPS	60 AMPS	1, 2
AC-2	CARRIER	24ACB736A003	3 / 2 STAGE	15.0	208 VOLT / 1 PHASE	19.8 AMPS	35 AMPS	1, 2
AC-3	CARRIER	24ACB760AB03	5 / 2 STAGE	15.5	208 VOLT / 1 PHASE	37.3 AMPS	60 AMPS	1, 2
AC-4	CARRIER	24ACB760AB03	5 / 2 STAGE	15.5	208 VOLT / 1 PHASE	37.3 AMPS	60 AMPS	1, 2
AC-5	CARRIER	24ACB760AB03	5 / 2 STAGE	15.5	208 VOLT / 1 PHASE	37.3 AMPS	60 AMPS	1, 2

AIR CONDITIONER OPTIONS:

- SUPPLY & SUCTION LINES WITH INSULATION AS REQUIRED BY MFG.  
SIZE PER MFG. REQUIREMENTS FOR LENGTH OF LINE
- PROVIDE COMPATIBLE INDOOR COOLING COIL FOR SPECIFIED FURNACE TO OBTAIN SEER VALUE INDICATED

MFG NOTE:

EQUALS BY BRYANT OR TRANE ARE ACCEPTED.  
ALL OTHER MUST BE APPROVED BY THE ENGINEER OF RECORD.

EXHAUST FAN SCHEDULE							
MARK	MFG.	MODEL	CFM	OUTLET	ELECTRICAL	CONTROL	OPTIONS
EF-1	BRQAN	#AB0	80	4" DIA.	120V / 44 WATTS	WALL SWITCH	1, 2

EXHAUST FAN OPTIONS:

- 4" INSULATED VENTING DUCT
- VENT TO 4" BRQAN #885AL WALL CAP
- NATURAL ALUMINUM FINISH WITH SPRING-LOADED BACKDRAFT DAMPER AND BIRD SCREEN

ROOF TOP UNIT SCHEDULE												
MARK	MFG.	MODEL	COOLING TONS / STAGES	HEATING-GAS STAGE 1 INPUT/OUTPUT	HEATING-GAS STAGE 2 INPUT/OUTPUT	HEATING EFFICIENCY	EER	VOLTAGE	MCA	MOCP	OPTIONS	
RTU-1	CARRIER	48LCE-07-FA25	6 / 3 STAGES	90,000 / 73,000	125,000 / 103,000	82 %	13.0	208 VOLT / 3 PHASE	43 AMPS	50 AMPS	1, 2, 3, 4, 5, 6, 7, 9	
RTU-2	CARRIER	48LCD-08-B2A5	7 1/2 / 3 STAGES	120,000 / 96,000	150,000 / 120,000	80 %	13.0	208 VOLT / 3 PHASE	52 AMPS	60 AMPS	1, 3, 4, 5, 6, 7, 8	

RTU OPTIONS:

- VERTICAL SUPPLY AND RETURN
- FACTORY INSTALLED CO2 SENSOR
- MEDIUM STATIC BELT DRIVE WITH VFD CONTROLLER
- STANDARD LEAK ENTHALPHY ECONOMIZER WITH BAROMETRIC RELIEF
- SMOKE DETECTOR FOR SHUT DOWN OF UNIT UPON DETECTION OF SMOKE MOUNTED IN RETURN DUCT OF UNIT  
MUST BE CONNECTED TO FIRE ALARM SYSTEM.
- 24" HIGH ROOF CURB
- 120 VOLT GFI OUTLET POWERED FROM UNIT.
- 3100 CFM SUPPLY AIR COOLING
- 2000 CFM SUPPLY AIR COOLING

PTAC SCHEDULE											
MARK	MFG.	MODEL	COOLING BTUH	HEATING BTUH - REVERSE	HEATING-ELECTRIC KW	FRESH AIR OCCUPIED	EER	VOLTAGE	MCA	MOCP	OPTIONS
PTAC-1	CREE	ETAC2-07HP230VA-A	7,000	5,800	3.45 / 9,600 BTUH	00 CFM	13.0	208 VOLT / 1 PHASE	13.6 AMPS	20 AMPS	1, 2, 3, 4, 5

PTAC OPTIONS:

- PROVIDE AND INSTALL STANDARD INSULATED WALL SLEEVE
- WITH ALUMINUM ARCHITECTURAL LOUVERED GRILLE
- WITH CONDENSATE DRAIN KIT
- WITH SUB BASE KIT
- WITH POWER CHORD

DRYER EXHAUST FAN SCHEDULE							
MARK	MFG.	MODEL	FPM	OUTLET	ELECTRICAL	CONTROL	OPTIONS
DEF-1	FANTECH	#DBF-4XL7-705	1200	4" DIA.	120V / 83 WATTS	PRESSURE SWITCH	1, 2, 3, 4, 5

DRYER EXHAUST FAN OPTIONS:

- 4" GALVANIZED STEEL VENTING DUCT WITH SEALED JOINTS.
- INDICATOR PANEL SHALL BE MOUNTED NEXT TO CLOTHES DRYER.  
CONTROL CABLE INSTALLED BY M.C.  
ELECTRICAL POWER TO UNIT BY E.C.
- TEMPERATURE LIMIT SWITCH
- INTEGRATED PRESSURE SWITCH
- INSTALL UNIT AND ALL ACCESSORIES ACCORDING TO THE MANUFACTURER.

SUPPLY & RETURN REGISTER SCHEDULE					
MARK	MFG.	MODEL	SIZE	COLOR	OPTIONS
SA-1	TITUS	TMS	6"	WHITE	LAY-IN MOUNTING
SA-2	TITUS	TMS	8"	WHITE	LAY-IN MOUNTING
SA-3	TITUS	TMS	10"	WHITE	LAY-IN MOUNTING
SA-4	TITUS	TMS	12"	WHITE	LAY-IN MOUNTING
SA-5	TITUS	300RL	10"X6"	WHITE	SIDEWALL GRILLE
RA-1	TITUS	50F	6"X24"	WHITE	R-3.5 INSULATED BACK BDX
RA-2	TITUS	50F	10"X24"	WHITE	R-3.5 INSULATED BACK BDX
RA-3	TITUS	50F	24"X24"	WHITE	R-3.5 INSULATED BACK BDX
RA-4	TITUS	350RL	14"X14"	WHITE	
RA-5	TITUS	350RS	16"WX30"H	WHITE	
RA-6	TITUS	350RL	10"X6"	WHITE	DUCTWORK MOUNTED AT GAS FURNACE
RA-7	TITUS	350RL	24"WX20"H	WHITE	

SECTION 15300 - HEATING, AIR CONDITIONING, AND VENTILATION

PART 1: GENERAL The General Conditions and other Contract Documents are hereby made a part of this Section to the same extent as if written out in full.

1.1 MANUFACTURER'S DESIGNATION

When manufacturers catalog numbers are given, they are for assistance to the bidder. In case of discrepancies in catalog numbers, the Contractor shall contact the Engineer of Record.

1.2 SUPERVISION

The Heating, Air Conditioning, and Ventilation Contractor shall at all times throughout the construction period, maintain proper supervision of his employees, make orderly disposition of his materials, maintain high class workmanship, systematically remove debris, cooperate fully with other contractors and subcontractors and avoid the creation of hazards to others on the job.

1.3 GUARANTEE

The Heating, Air Conditioning, and Ventilation Contractor shall make good any defects due to faulty material or workmanship; he shall correct any malfunction not due to misuse or abuse after date of acceptance, which develops in his work, for a period of one (1) year from date of acceptance. The date of final payment shall be recognized as the date of final acceptance.

1.4 EQUIPMENT MARKING AND PAINTING

All mared or scratched equipment shall be touched up with same paint as that damaged.

All metal which is factory prime coated shall be given two (2) coats of gray machinery enamel. This shall include fans, motor bases, hangers, etc.

1.5 RULES, REGULATIONS AND PERMITS

All materials, workmanship, and installation shall conform to all local and state codes and federal O.S.H.A. standards. This Heating, Air Conditioning, and Ventilation Contractor shall, at his own expense, furnish all necessary permits and fees required by the Local Ordinances and by the State of Indiana for construction and inspection of work installed by him. Refer to drawings for specific enforceable Building Codes.

1.6 EXHAUST AIR

The Owner shall not add any equipment to the building which will cause an unbalance in the HVAC air supply system, such as range hoods or exhaust fans. The addition of such equipment may cause the HVAC System to not perform as designed. Make-up air shall be provided for the addition of such additional equipment by the Owner.

PART 2: MATERIALS AND METHODS

2.1 PRODUCTS

See drawings for model numbers and specifications.

Ductwork Notes:

- Field verify all duct dimensions and conditons and adjust as necessary.
- Turning vanes shall be installed in all right angle or square turns or turns in which the center line radius is less than 1 1/2 times duct width in place of turn. Turning vanes shall also be installed where required in order to reduce the aspect ratio to not more than 2/3.
- Install tapered take-offs as required on supply and return runs.
- Install volume dampers on all ducts (supply and return) from main trunk lines.
- Mechanical contractor shall balance the system to required cfm stated on the drawings. Certified air balance report to be given to Owner upon verification of system requirements. Air balancing of system shall be done in cooling mode.
- All duct dimensions shown on the drawing are net free area.
- Coordinate ductwork, diffuser, and grilles locations with electrical lighting fixtures. See electrical drawings.
- Ducts shall be free of rattle or rumble and shall not vibrate or breathe.
- Paint all ductwork visible through grilles and diffusers dull finish black.
- All openings or chases necessary for the installation of ductwork shall be laid out for Other contractors to insure proper spaces.
- All transverse seam laps shall be made in the direction of flow, longitudinal seams shall be locked and hammered flat.

Refrigeration Lines: Shall be of sizes as recommended by the equipment manufacturer and be installed according to Indiana Mechanical Code. Suction lines to be insulated with plastic foam type insulation (Armaflex or equal).

Temperature Controls: Provided by Mechanical Contractor and wired by the Mechanical Contractor. Temperature control wiring shall be provided and installed by the Electrical Contractor.

All wiring and temperature control wiring to be completed by Electrical Contractor.

Final connection of T-stat wiring by Mechanical Contractor to Fan Coil and T-stat.

2.2 PLAN

The Heating, Air Conditioning and Ventilation Contractor shall use the accompanying drawings as his working drawings except that deviations may be made only when interference may arise.

Such deviations shall be called to the attention of the Engineer as prior approval obtained before making any installation. In no case shall codes, rules or regulations hereinbefore referred to be violated.

2.3 DRAWINGS

The Heating, Air Conditioning, and Ventilation Contractor shall furnish "Shop Drawings" in accordance with the requirements of DIVISION 1, GENERAL CONDITIONS, and all amendments thereto. He shall obtain, ahead of job progress, all manufacturer's drawings, wiring diagrams, rough-in location drawings, operating instructions, etc., for each item of equipment furnished and set by him and connected to by other contractors. He shall see that the other contractors who connect to his equipment have the necessary

drawings for rough-in and wiring diagrams ahead of their job progress. The Heating, Air Conditioning, and Ventilation Contractor shall also maintain a complete set of general, structural, electrical and mechanical drawings during the progress of the job. He shall also maintain a clean set of mechanical-electrical drawings for record purposes, upon which he shall mark, legibly, all deviations from the

Contract Documents. This set shall be turned over to the Engineer at the termination of the job for an "As Built" set.

PART 3: EXECUTION

- All work on this project must be complete of all parts and supplies and hook-ups to make a complete operating job when the project is finished.
- All equipment shall be provided and installed in strict accordance with the manufacturer's installation instructions.
- Compaction of soil shall be as stated in the General Written Specifications for all trenching.

END OF SECTION

GOVERNING CODES

2014 INDIANA BUILDING CODE  
(IBC 2012 EDITION - WITH INDIANA AMENDMENTS)

2014 INDIANA FIRE CODE

(IFC 2012 EDITION - WITH INDIANA AMENDMENTS)

2012 INDIANA PLUMBING CODE

(IPC 2006 EDITION - WITH INDIANA AMENDMENTS)

2014 INDIANA MECHANICAL CODE

(IMC 2012 EDITION - WITH INDIANA AMENDMENTS)

2010 INDIANA ENERGY CONSERVATION CODE

(ANSI/ASHRAE 90.1 - 2007 EDITION - WITH INDIANA AMENDMENTS)

2009 INDIANA ELECTRICAL CODE

(NEC 2008 EDITION - WITH INDIANA AMENDMENTS)

DATE	REVISIONS	BY



WABASH VALLEY HEALTH CENTER, INC.

1436 LOCUST STREET

TERRE HAUTE, INDIANA 47807

BUILDING ADDITIONS & RENOVATION

**MICHAEL R. WALDBIESER**  
ENGINEER & CONSULTING, INC.  
STRUCTURAL, PLUMBING, MECHANICAL, ELECTRICAL

PHONE: (812) 232-0510

SYCAMORE BUILDING  
19 SOUTH 6th STREET, SUITE 804  
TERRE HAUTE, INDIANA 47807

SCALE: NONE	DATE: 09-11-19	DRAWN BY: MRW	APPROVED BY: MRW
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PROJECT: 18-20  
FILE: MECH #F

M3.0

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