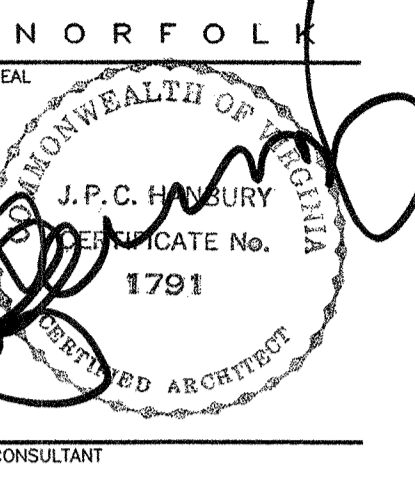
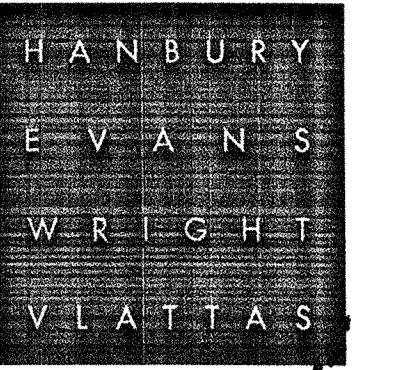
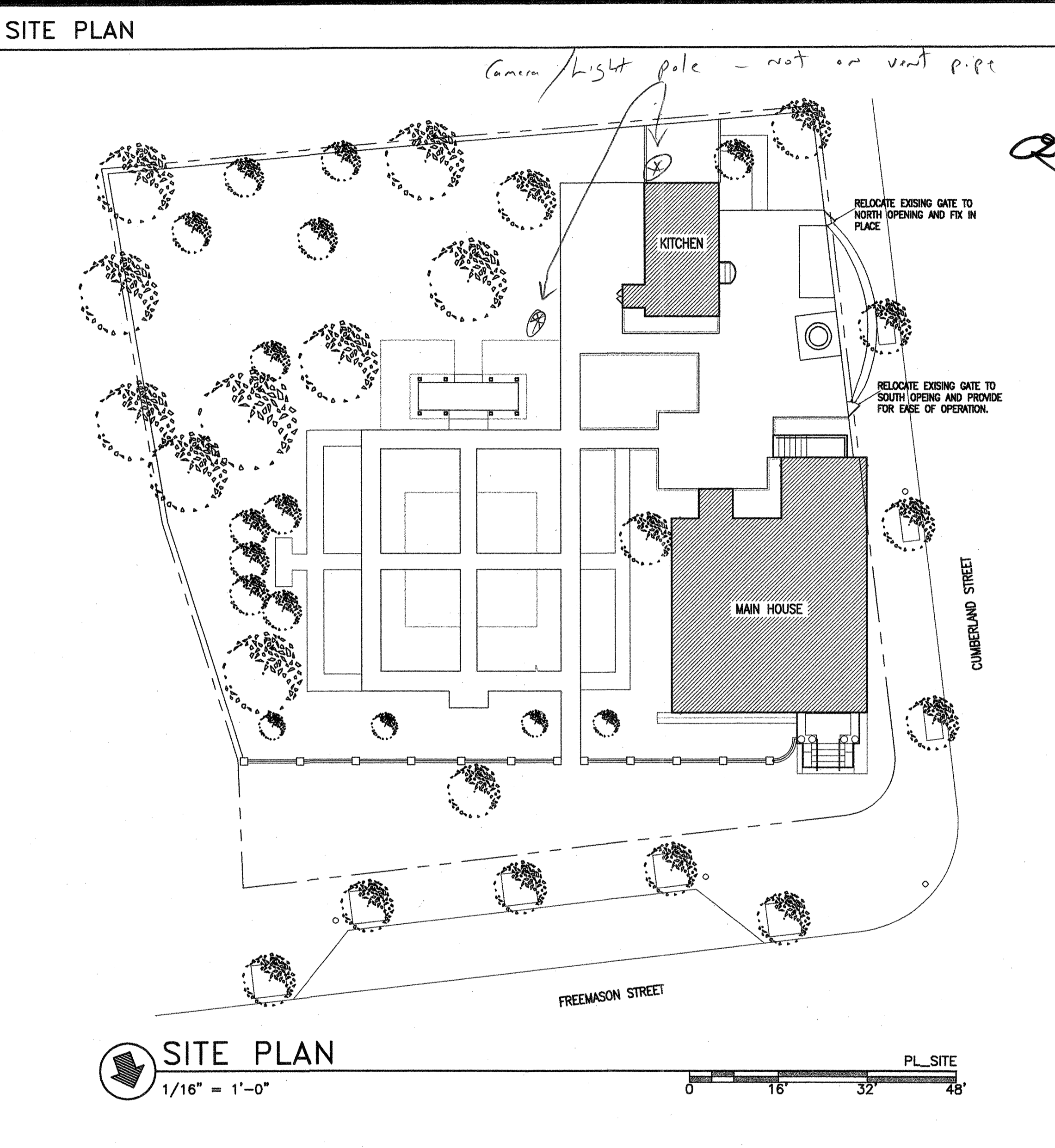


WILLOUGHBY-BAYLOR HOUSE RENOVATION

CHRYSLER MUSEUM
NORFOLK, VA



SHEET NO.	TITLE
T-1	TITLE SHEET AND SITE PLAN
ARCHITECTURAL SERIES:	
EX-1	EXISTING BASEMENT AND FIRST FLOOR PLANS
EX-2	EXISTING SECOND AND THIRD FLOOR PLANS
EX-3	EXISTING PLANS OF KITCHEN
D-1	BASEMENT AND FIRST FLOOR DEMOLITION PLANS
D-2	SECOND AND THIRD FLOOR DEMOLITION PLANS
A-1	BASEMENT AND FIRST FLOOR PLANS
A-2	SECOND AND THIRD FLOOR PLANS
A-3	BASEMENT AND FIRST FLOOR REFLECTED CEILING PLANS
A-4	SECOND AND THIRD FLOOR REFLECTED CEILING PLANS
PLUMBING SERIES:	
P-1	LEGEND AND NOTES
P-2	PLUMBING PLANS - DEMOLITION
P-3	PLUMBING PLANS - NEW WORK & NOTES
P-4	PLUMBING PLANS - NEW WORK
P-5	RISER DIAGRAMS & SCHEDULES
P-6	DETAILS & SECTIONS
MECHANICAL SERIES:	
M-1	LEGEND AND NOTES
M-2	MECHANICAL PLANS - DEMOLITION
M-3	MECHANICAL PLANS - DEMOLITION
M-4	MECHANICAL PLANS - NEW WORK
M-5	MECHANICAL PLANS - NEW WORK
M-6	SECTIONS
M-7	DETAILS
M-8	EQUIPMENT SCHEDULE, DETAILS AND SCHEDULE
M-9	CONTROLS
ELECTRICAL SERIES:	
E-1	LEGEND, SCHEDULES AND NOTES
E-2	BASEMENT AND 1ST FLOOR PLANS - DEMOLITION
E-3	2ND AND 3RD FLOOR PLANS - DEMOLITION
E-4	BASEMENT AND 1ST FLOOR PLANS - NEW WORK
E-5	2ND AND 3RD FLOOR PLANS - NEW WORK
E-6	BASEMENT AND 1ST FLOOR PLANS - SPECIAL SYSTEMS
E-7	2ND AND 3RD FLOOR PLANS - SPECIAL SYSTEMS
E-8	DETAILS
E-9	SPECIAL SYSTEM RISER
-	SHADED BOX DENOTES SHEET INCLUDED IN CURRENT ISSUE



PROJECT INFORMATION

PROJECT CODE: P0202945

PROJECT DESCRIPTION:
THIS PROJECT INVOLVES RENOVATIONS TO THE EXISTING HISTORIC WILLOUGHBY-BAYLOR HOUSE, INCLUDING REPLACEMENT OF MECHANICAL SYSTEMS, UPGRADES TO ELECTRICAL SYSTEMS, RENOVATIONS OF RESTROOMS TO PROVIDE A HANDICAPPED ACCESSIBLE RESTROOM, PROVISION OF NEW SECURITY, FIRE ALARM AND SPRINKLER SYSTEMS, ARCHITECTURAL FINISH WORK, AND SITE LIGHTING. THE EXISTING OCCUPANCY AND USE GROUP OF THE FACILITY REMAIN UNCHANGED.

OCCUPANCY: ASSEMBLY
USE GROUP: A-3
CONSTRUCTION TYPE: 3A (PROTECTED, NONCOMBUSTIBLE/COMBUST.)

BUILDING AREA AND OCCUPANCY:

FLOOR	MECH.	AREA	OCCUPANCY
MECH. BASEMENT		913 SF	3
FIRST FLOOR		1,079 SF	63
SECOND FLOOR		982 SF	65
THIRD FLOOR		683 SF	2
TOTAL		3,657 SF	133

EXISTING BUILDING IS 3 STORIES & BASEMENT
AVE. HEIGHT FROM GRADE PLANE TO TOP OF ROOF: 39 FEET
PERIMETER: 162'-5"
OPEN PERIMETER: 81'-2"

APPLICABLE CODES:
VA UNIFORM STATEWIDE BUILDING CODE - 1996 EDITION
AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES - 1990

CODE REFERENCES:
BOCA GUIDELINES FOR DETERMINING FIRE RESISTANCE RATINGS OF BUILDING ELEMENTS, C 1994 (F.R. GUIDE)

SYMBOL LEGEND

	BUILDING SECTION NUMBER		PARTITION TYPE
	SHEET WHERE SECTION IS DRAWN		WINDOW TYPE - NOT USED
	SHEET WHERE SECTION IS CUT		DOOR NUMBER
	WALL SECTION NUMBER		LEVEL LINE
	SHEET WHERE SECTION IS DRAWN		ACCESSORY ITEM
	SHEET WHERE SECTION IS CUT		ROOM NUMBER
	ELEVATION LETTER		WORK NOTE
	SHEET WHERE ELEVATION IS DRAWN		DEMOLITION NOTE
	SHEET WHERE ELEVATION IS CUT		
	DETAIL LETTER		
	SHEET WHERE DETAIL IS DRAWN		
	SHEET WHERE DETAIL IS CUT		

MATERIALS

	BRICK
	CONCRETE
	CMU
	EARTH
	METAL IN SECTION
	GROUT OR MORTAR
	BATT INSULATION
	LOOSE INSULATION
	GRAVEL
	GYPSUM BOARD
	RIGID INSULATION
	PLYWOOD
	WOOD
	LOCAL STONE

REVISION	DATE
4-1-03	
DRAWN	NSM
CHECKED	JPCH
DATE	17 OCT 2002
PROJECT NO.	02036.00
DRAWING NO.	T-1

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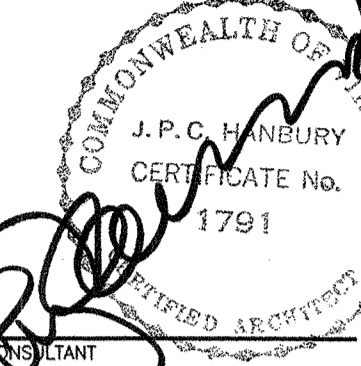
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WILLOUGHBY - BAYLOR HOUSE RENOVATION
 NORFOLK, VIRGINIA
 TITLE SHEET & SITE PLAN

HANBURY
EVANS
WRIGHT
VLATTAS

NORFOLK

SEAL



WILLOUGHBY - BAYLOR HOUSE RENOVATION
NORFOLK, VIRGINIA
EXISTING PLANS

REVISION DATE
4-1-03

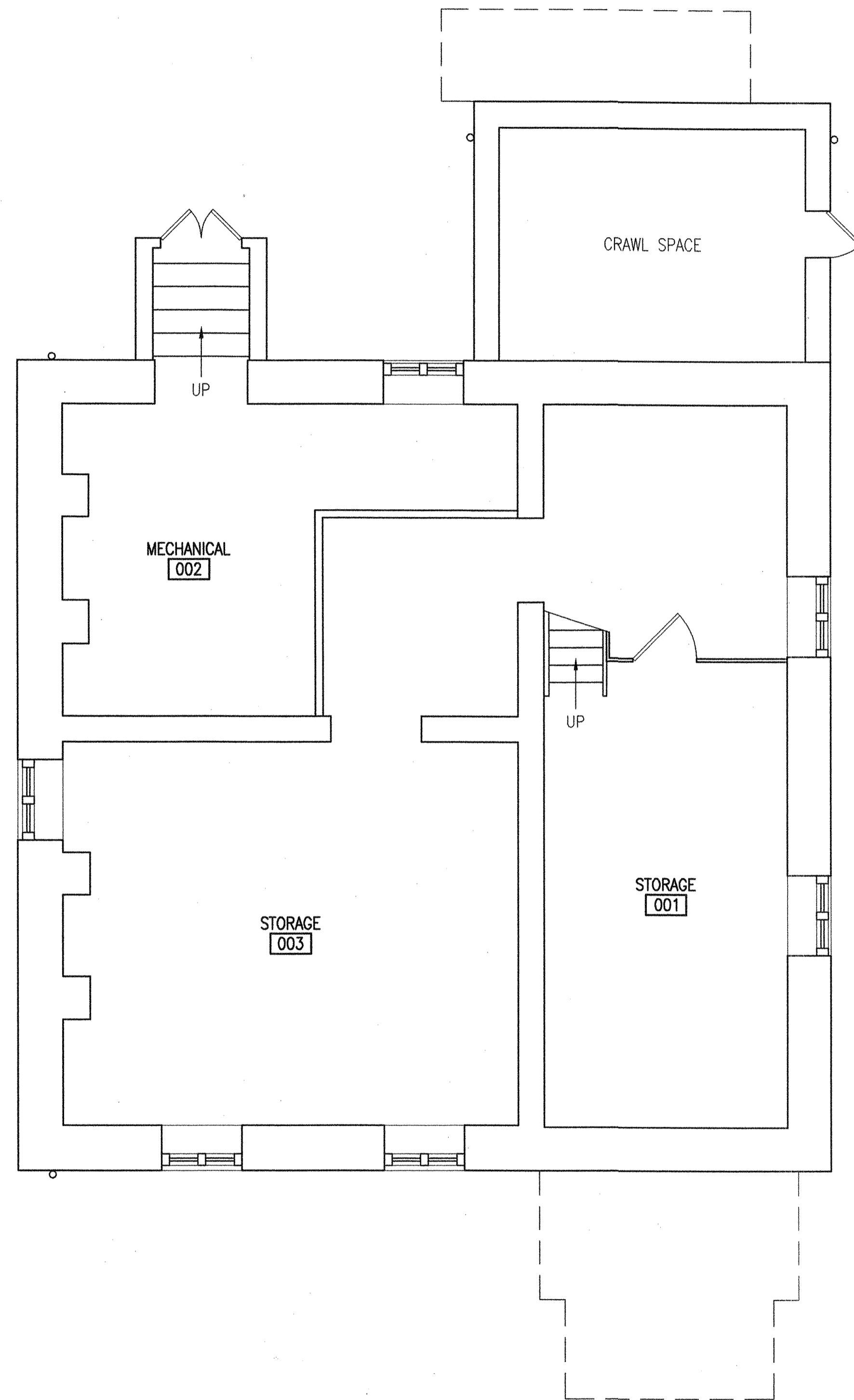
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DATE 17 OCT 2002
PROJECT NO 02036.00

DRAWING NO

EX-1

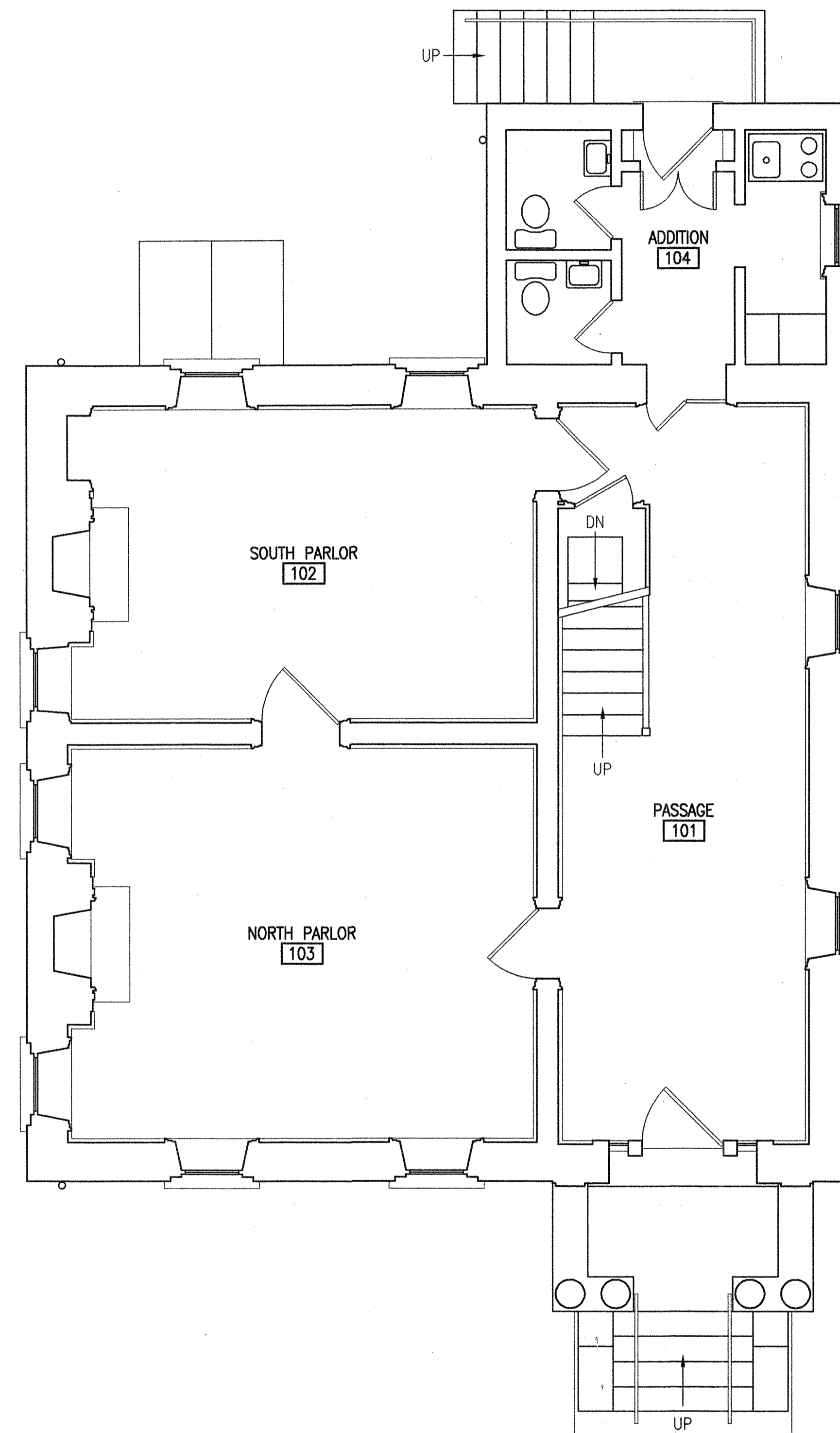
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EXISTING BASEMENT PLAN

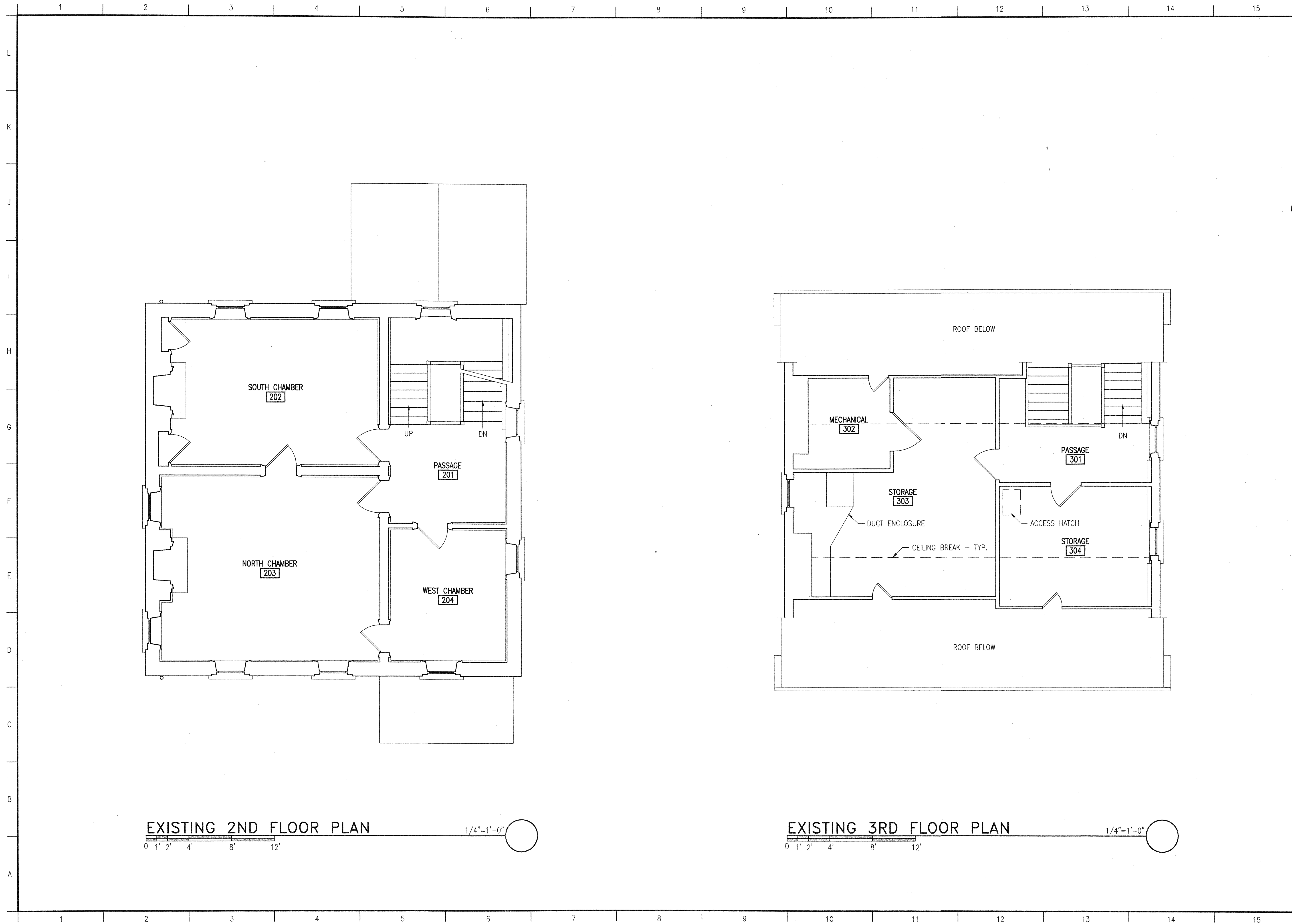
1/4"=1'-0"



EXISTING 1ST FLOOR PLAN

1/4"=1'-0"

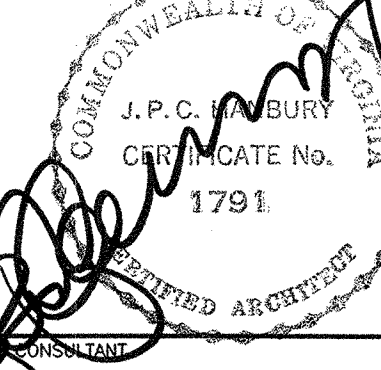




HANBURY
EVANS
WRIGHT
VLATTAS

NORFOLK

SEAL



WILLOUGHBY - BAYLOR HOUSE RENOVATION

NORFOLK, VIRGINIA

EXISTING PLANS

REVISION	DATE
4-1-03	
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CHECKED	JPCH
DATE	17 OCT 2002
PROJECT NO	02036.00
DRAWING NO	

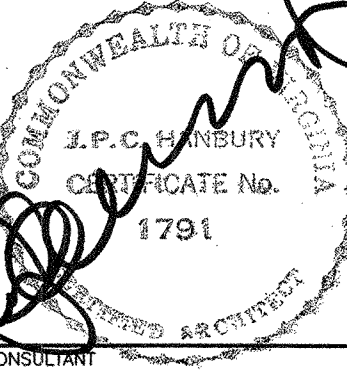
EX-2

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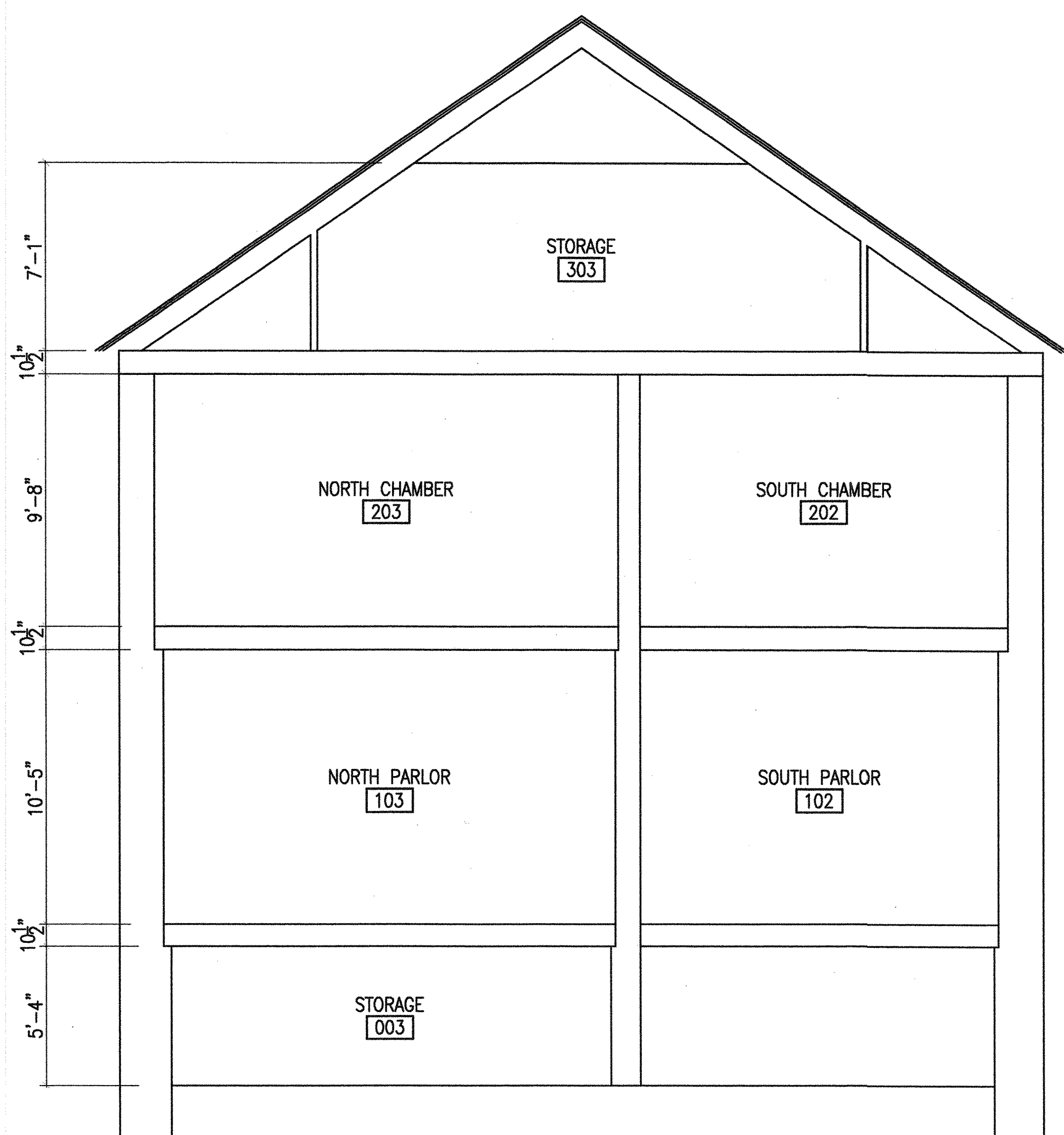
SEAL



WILLOUGHBY - BAYLOR HOUSE RENOVATION

NORFOLK, VIRGINIA

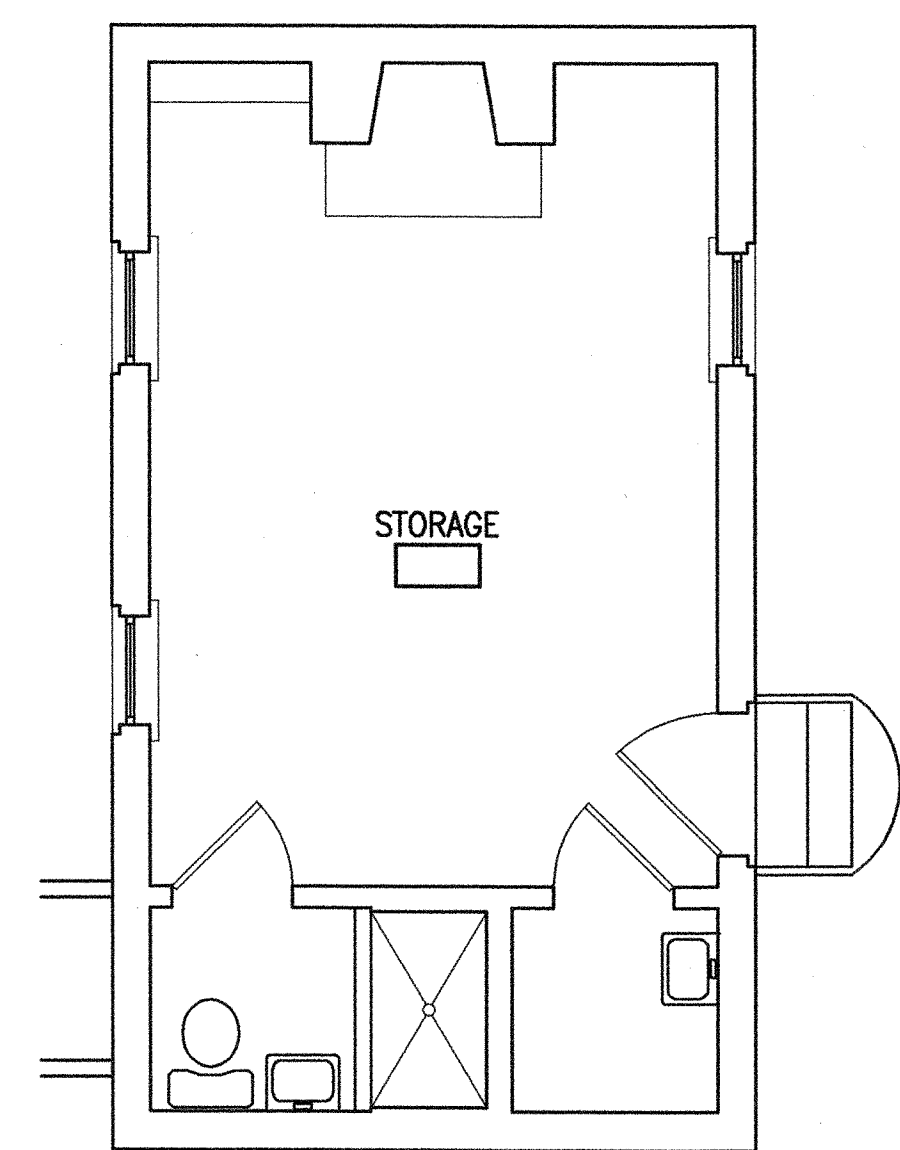
EXISTING DRAWINGS



SCHEMATIC SECTION

0 1' 2' 4' 8' 12'

1/4"=1'-0"



KITCHEN BUILDING

0 1' 2' 4' 8' 12'

1/4"=1'-0"

REVISION 4-1-03 DATE

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DATE 17 OCT 2002

PROJECT NO 02036.00

DRAWING NO

EX-3

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CONSULTANT

GENERAL DEMOLITION NOTES:

1. DEMOLITION WORK INDICATED ON THE PLAN IS NOT INTENDED TO DESIGNATE QUANTITIES BUT RATHER THE GENERAL SCOPE OF WORK INVOLVED.
2. CONTRACTOR IS TO COORDINATE DEMOLITION WORK WITH WORK PLANS. SEE PLANS AND REFLECTED CEILING PLANS FOR LIMITED DEMOLITION WORK ASSOCIATED WITH INSTALLATION OF NEW COMPONENTS. PERFORM DEMOLITION, CUTTING AND PATCHING REQUIRED TO COMPLETE NEW WORK.
3. UNLESS OTHERWISE INDICATED, DEMOLISHED MATERIAL IS TO BE REMOVED FROM THE SITE AND DISPOSED OF IN AN APPROVED LANDFILL.
4. CONTRACTOR SHALL PROTECT EXISTING CONSTRUCTION, MATERIALS AND FINISHES SCHEDULED TO REMAIN OR TO BE REUSED DURING DEMOLITION AND WORK ACTIVITIES.
5. AN ASBESTOS INSPECTION WAS PERFORMED AND ASBESTOS-CONTAINING MATERIALS WERE FOUND GENERALLY IN THE AREAS INDICATED. THE ASBESTOS SURVEY/INSPECTION REPORT IS AVAILABLE TO THE CONTRACTOR FOR HIS INFORMATION. THE ASBESTOS-CONTAINING MATERIALS SHALL BE REMOVED PRIOR TO ANY WORK BEING PERFORMED IN THESE AREAS.
6. SEE PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

DEMOLITION NOTES:

- 6.1 REMOVE WOOD FRAME PARTITIONS IN THEIR ENTIRETY, INCLUDING DOORS, CASINGS, FRAMES, SHELVING, AND PLASTER OR GWB FINISHES. EXTERIOR DOOR, WEST WINDOW AND ASSOCIATED TRIM ARE TO REMAIN. SALVAGE DOORS, HARDWARE AND CASINGS FOR REUSE AS INDICATED ON PLANS.
- 6.3 REMOVE BUILT-IN WOOD CASEWORK IN ITS ENTIRETY. REMOVE METAL WALL CABINETS ABOVE SINK/STOVE UNIT.
- 8.1 REMOVE DOORS FOR REASSEMBLY - SEE ARCHITECTURAL DRAWINGS
- 9.1 REMOVE COMPOSITION FLOOR TILE, MASTIC, AND SUBSTRATE IN THEIR ENTIRETY. THIS MATERIAL HAS BEEN DETERMINED TO CONTAIN ASBESTOS AND REMOVAL AND DISPOSAL SHALL BE COMPLETED ACCORDINGLY.
- 9.2 REMOVE PLASTER/GWB CEILING (AND WOOD CORNICE WHERE EXISTING) TO EXPOSE WOOD FRAMING.
- 15.1 REMOVE BLADDER EXPANSION TANK - SEE PLUMBING DRAWINGS.
- 15.2 REMOVE SUMP PUMP (EXISTING PIT TO REMAIN) - SEE PLUMBING DRAWINGS.
- 15.3 REMOVE GAS BOILER - SEE PLUMBING DRAWINGS.
- 15.4 REMOVE WATER HEATER - SEE PLUMBING DRAWINGS.
- 15.5 REMOVE WATER CLOSET AND LAVATORY - SEE PLUMBING DRAWINGS.
- 15.6 REMOVE COMBINATION SINK/ELECTRIC STOVE UNIT - SEE PLUMBING DRAWINGS.
- 15.7 REMOVE HEAT PUMP - SEE MECHANICAL DRAWINGS.
- 15.8 REMOVE METAL FLOOR REGISTER - SEE MECHANICAL DRAWINGS.
- 16.1 REMOVE ELECTRICAL AND SECURITY PANELS - SEE ELECTRICAL DRAWINGS.

WILLOUGHBY - BAYLOR HOUSE RENOVATION

NORFOLK, VIRGINIA

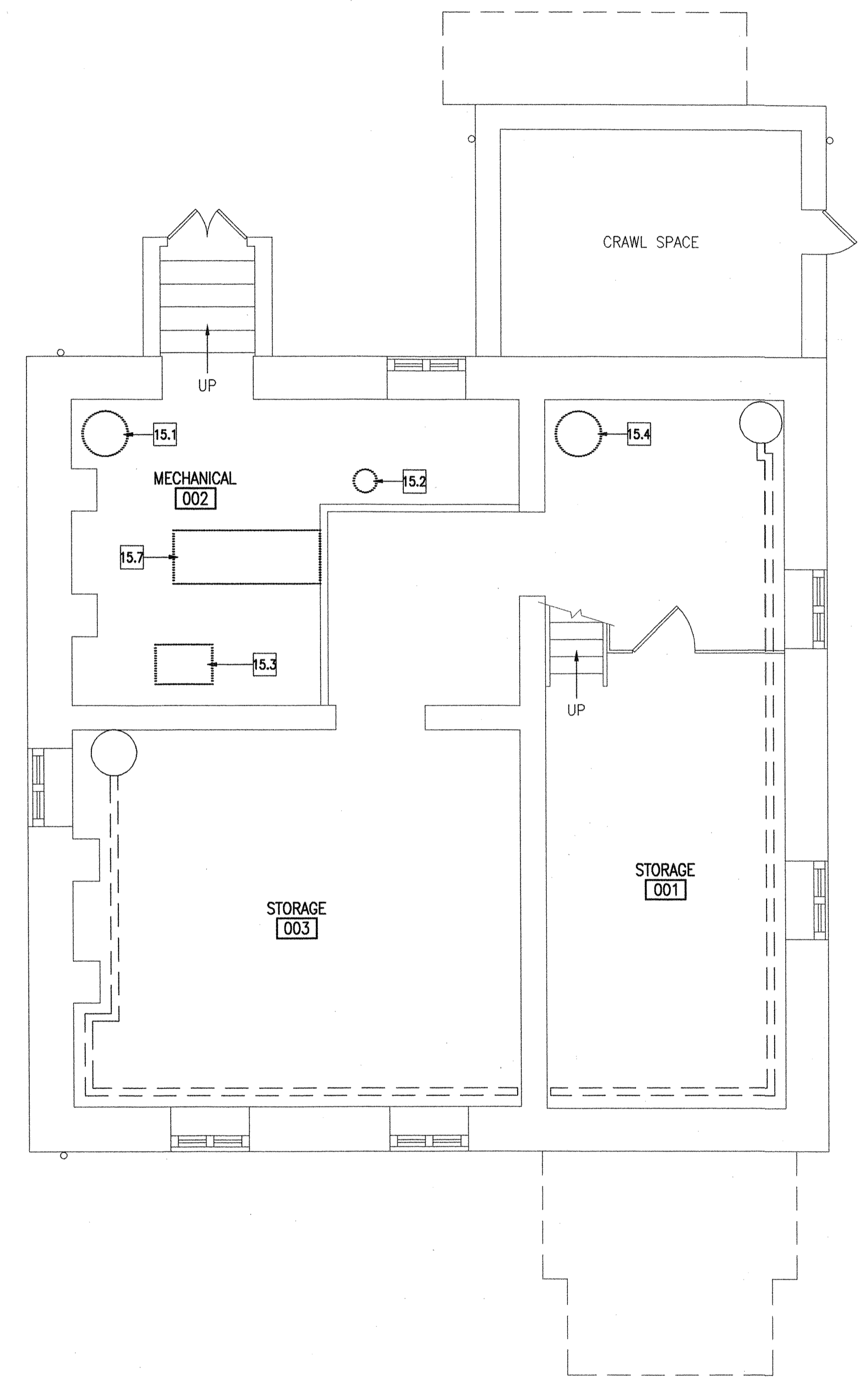
BASEMENT & 1ST FLOOR DEMOLITION PLANS

REVISION DATE
4-1-03

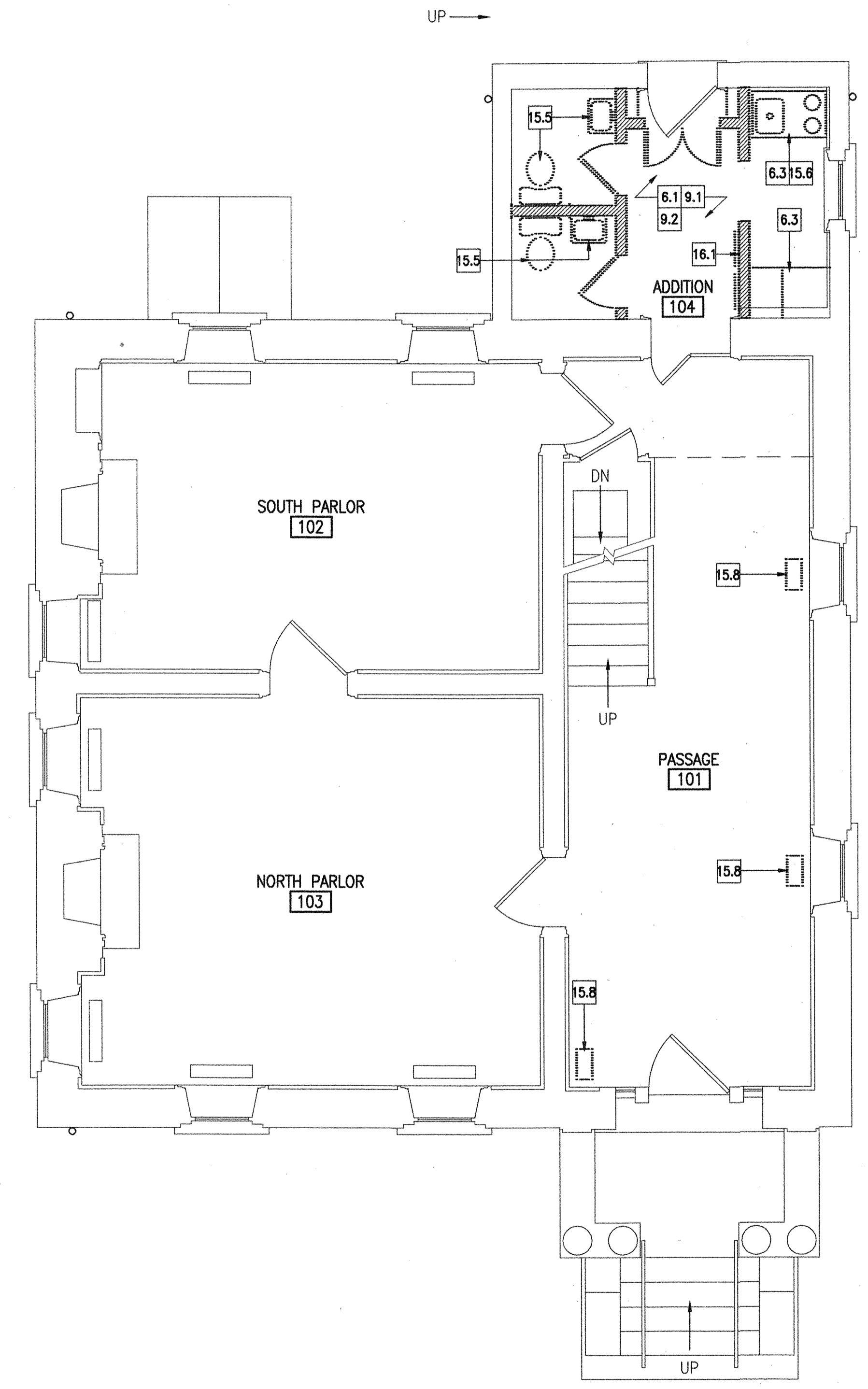
DRAWN NSM
CHECKED JPCH
DATE 17 OCT 2002
PROJECT NO 02036.00

DRAWING NO
D-1

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BASEMENT DEMOLITION PLAN
1/4" = 1'-0"
0 1' 2' 4' 8' 12'



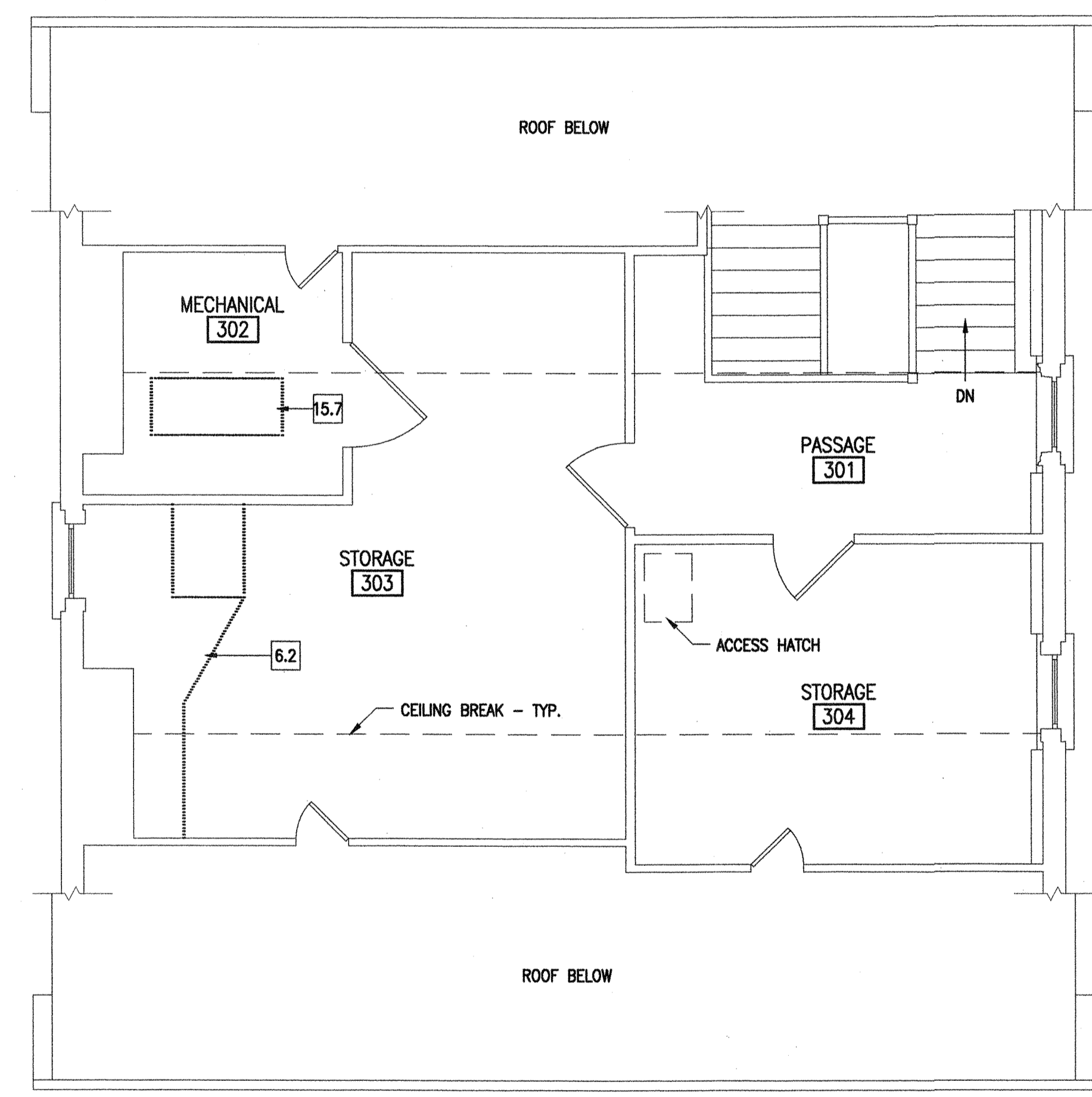
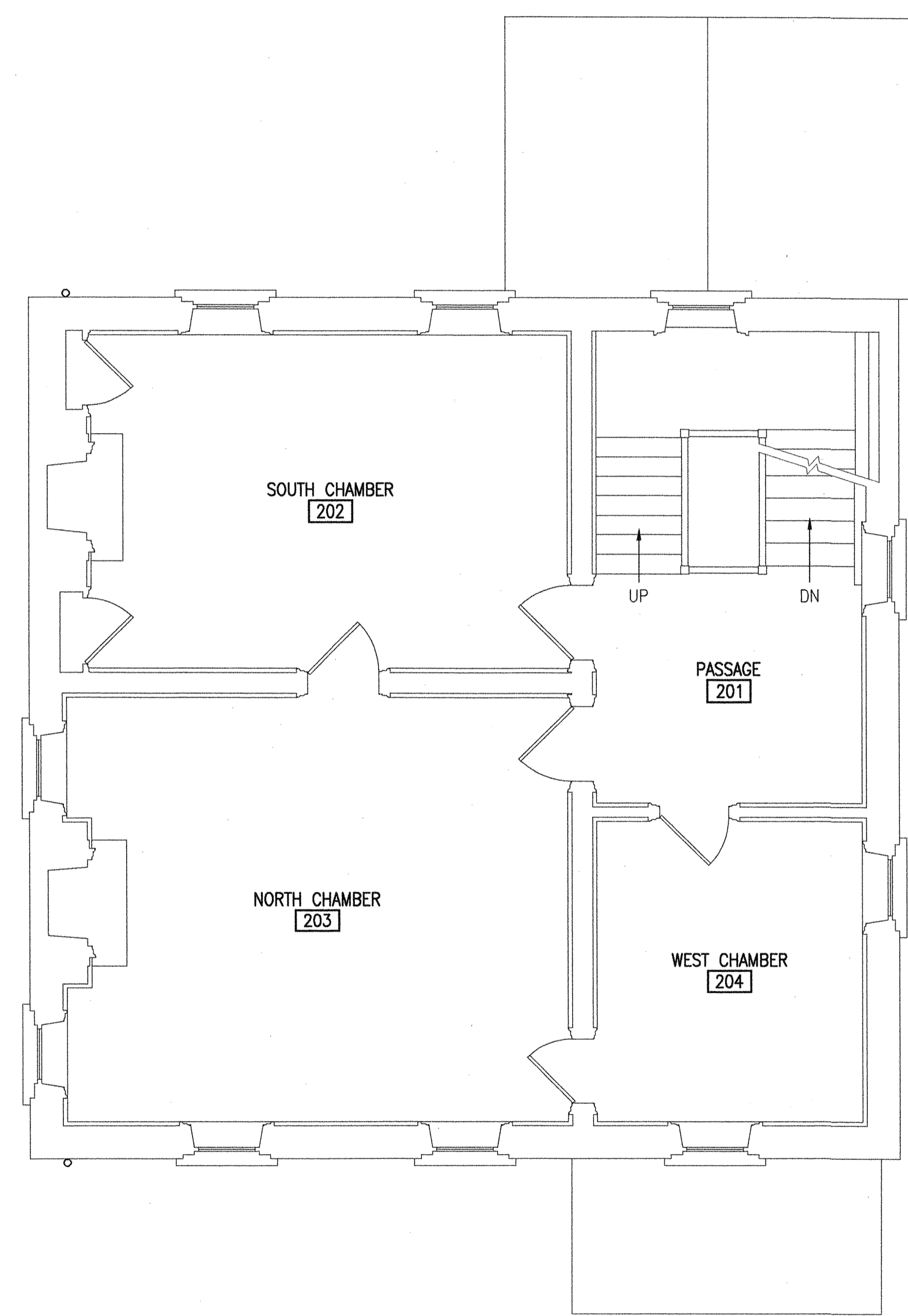
1ST FLOOR DEMOLITION PLAN
1/4" = 1'-0"
0 1' 2' 4' 8' 12'

GENERAL DEMOLITION NOTES:

1. SEE SHEET D-1 FOR GENERAL DEMOLITION NOTES.

DEMOLITION NOTES:

- 6.2** REMOVE WOOD FRAME AND PLYWOOD PLATFORM/CHASE IN ITS ENTIRETY.
- 15.7** REMOVE HEAT PUMP - SEE MECHANICAL DRAWINGS.



2ND FLOOR DEMOLITION PLAN
1/4" = 1'-0"
0 1' 2' 4' 8' 12'

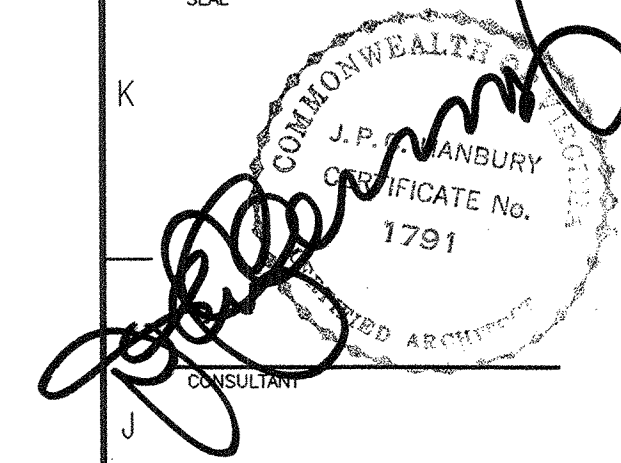
3RD FLOOR DEMOLITION PLAN
1/4" = 1'-0"
0 1' 2' 4' 8' 12'

WILLOUGHBY - BAYLOR HOUSE RENOVATION
 NORFOLK, VIRGINIA
2ND & 3RD FLOOR DEMOLITION PLANS

REVISION DATE
4-1-03

DRAWN NSM
CHECKED JPCH
DATE 17 OCT 2002
PROJECT NO 02036.00

DRAWING NO
D-2



RCP LEGEND

- ◆ SPRINKLER HEAD - SEE PLUMBING DRAWINGS
- ▬ MECHANICAL REGISTER - SEE MECHANICAL DRAWINGS
- ⊠ MECHANICAL REGISTER - SEE MECHANICAL DRAWINGS
- ⊠ EF EXHAUST FAN - SEE MECHANICAL DRAWINGS
- ┌ TRACK LIGHTING - SEE ELECTRICAL DRAWINGS
- ▭ FLUORESCENT FIXTURE - SEE ELECTRICAL DRAWINGS
- M MOTION DETECTOR - SEE ELECTRICAL DRAWINGS
- SECURITY CAMERA - SEE ELECTRICAL DRAWINGS LOCATION
- ⊠ S SIGNALLING DEVICE - SEE ELECTRICAL DRAWINGS
- ⊠ S SMOKE DETECTOR - SEE ELECTRICAL DRAWINGS
- ◆ 8'-0" CEILING HEIGHT
- RECESSED FIXTURE - SEE ELECTRICAL

GENERAL NOTES:

1. SEE FLOOR PLANS AND PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

WORK NOTES:

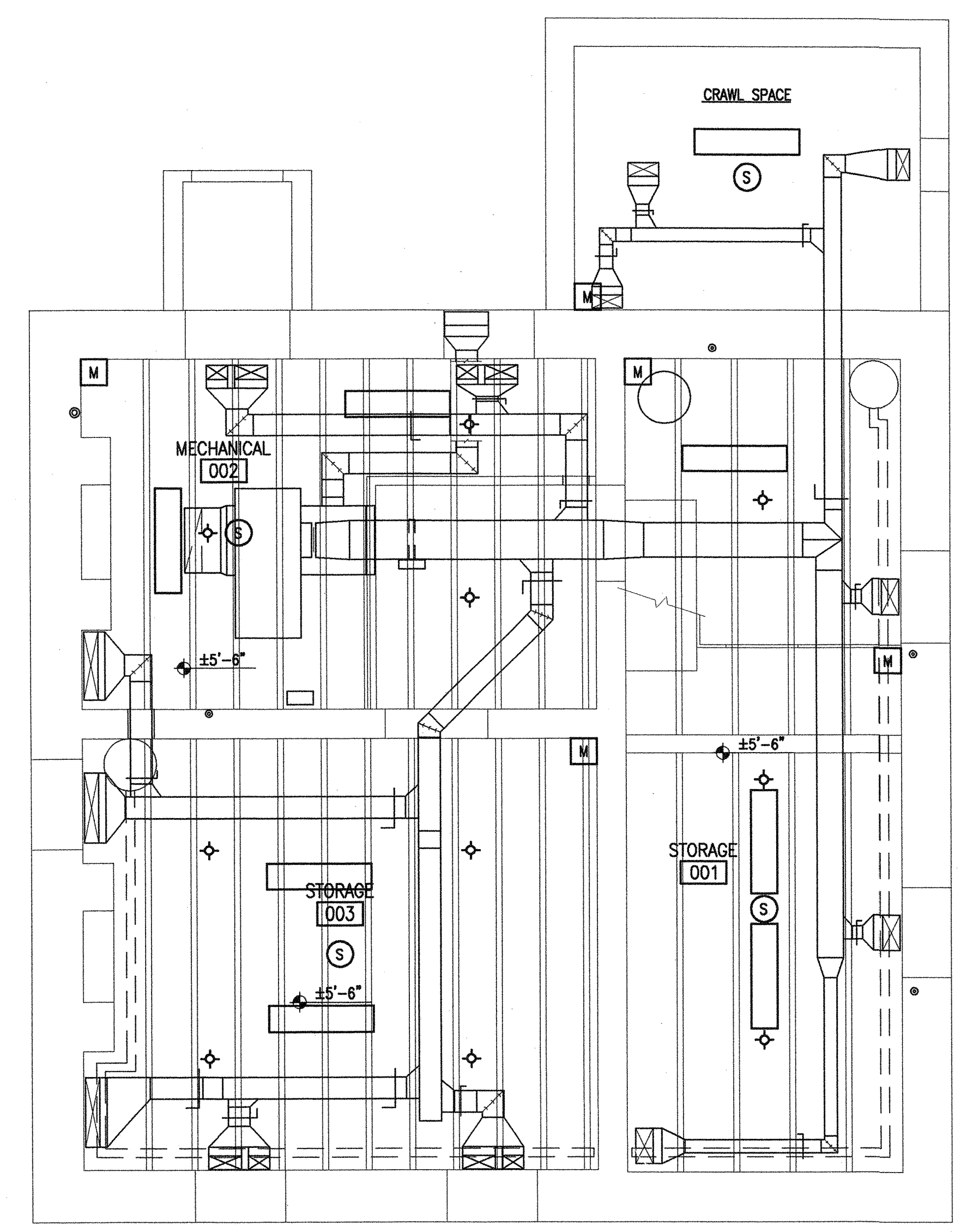
- 9.2 PROVIDE 5/8" GWB CEILING THROUGHOUT ADDITION. PAINT AS SCHEDULED.
- 16.1 EXISTING LIGHT FIXTURE TO REMAIN.

WILLOUGHBY - BAYLOR HOUSE RENOVATION
 NORFOLK, VIRGINIA
BASEMENT & 1ST FL REFLECTED CEILING PLANS

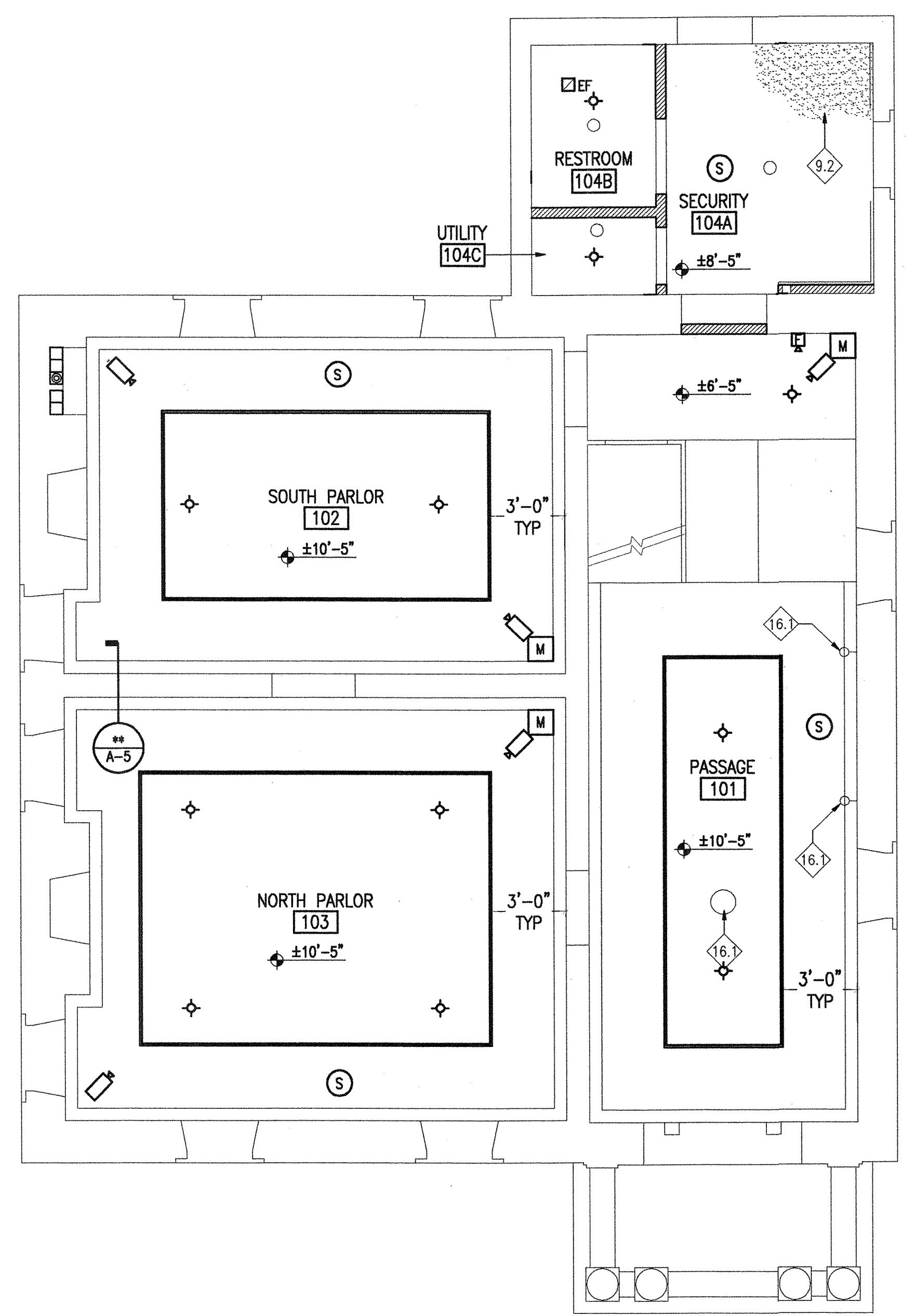
REVISION	DATE
4-1-03	
DRAWN	NSM
CHECKED	JPCH
DATE	17 OCT 2002
PROJECT NO	02036.00

DRAWING NO
A-3

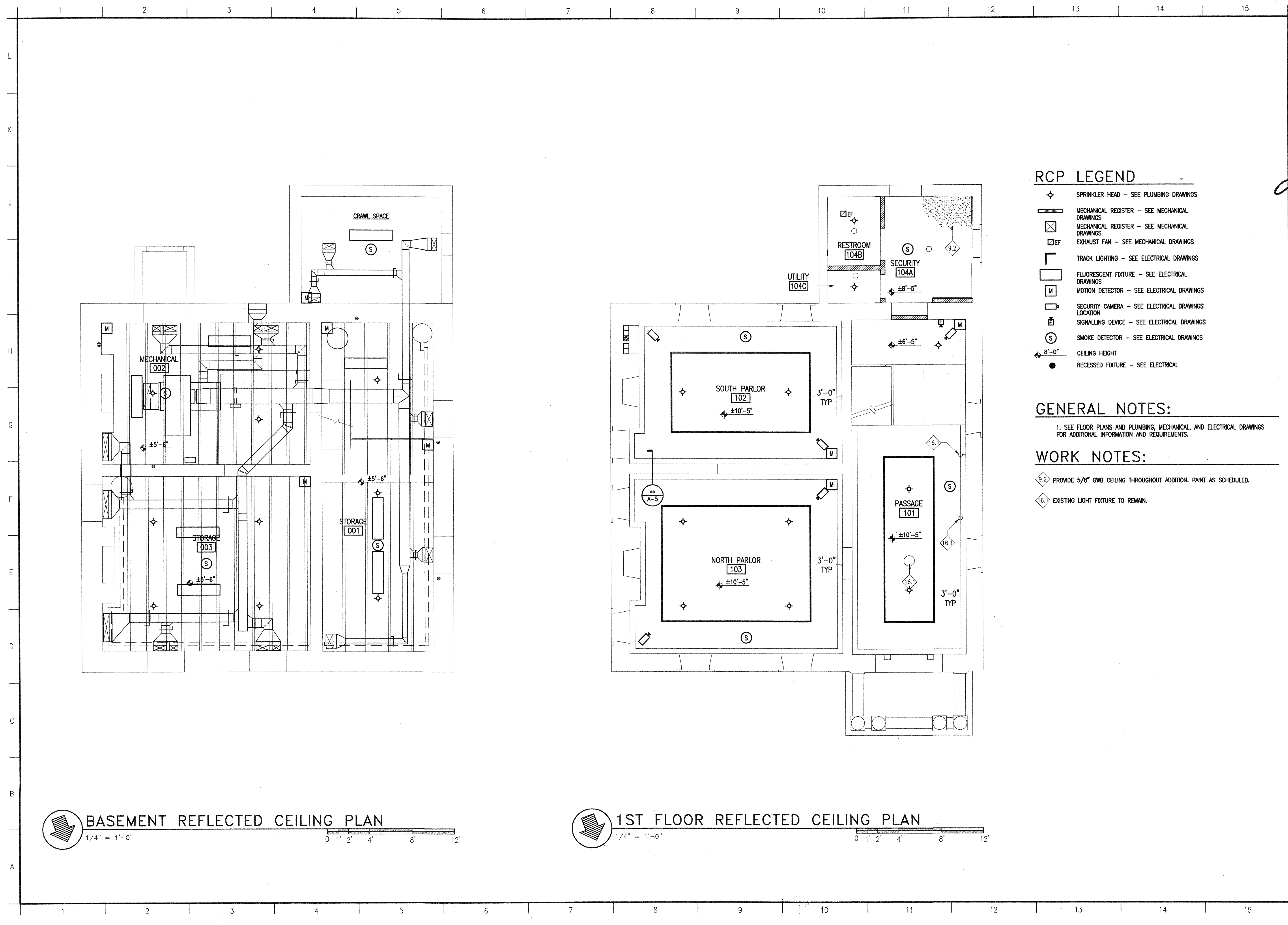
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BASEMENT REFLECTED CEILING PLAN
1/4" = 1'-0"
0 1' 2' 4' 8' 12'



1ST FLOOR REFLECTED CEILING PLAN
1/4" = 1'-0"
0 1' 2' 4' 8' 12'



[Handwritten Signature]

RCP LEGEND

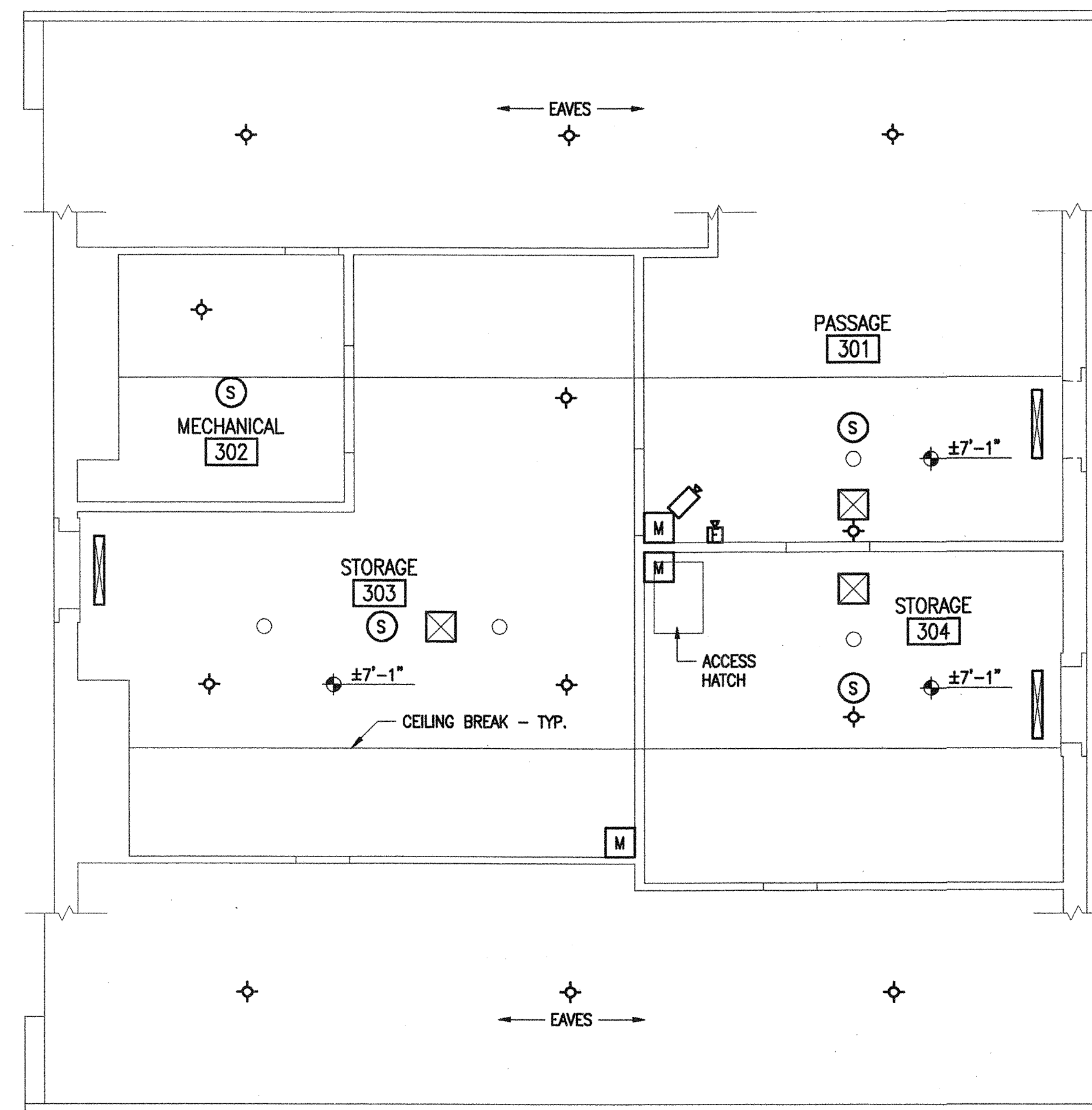
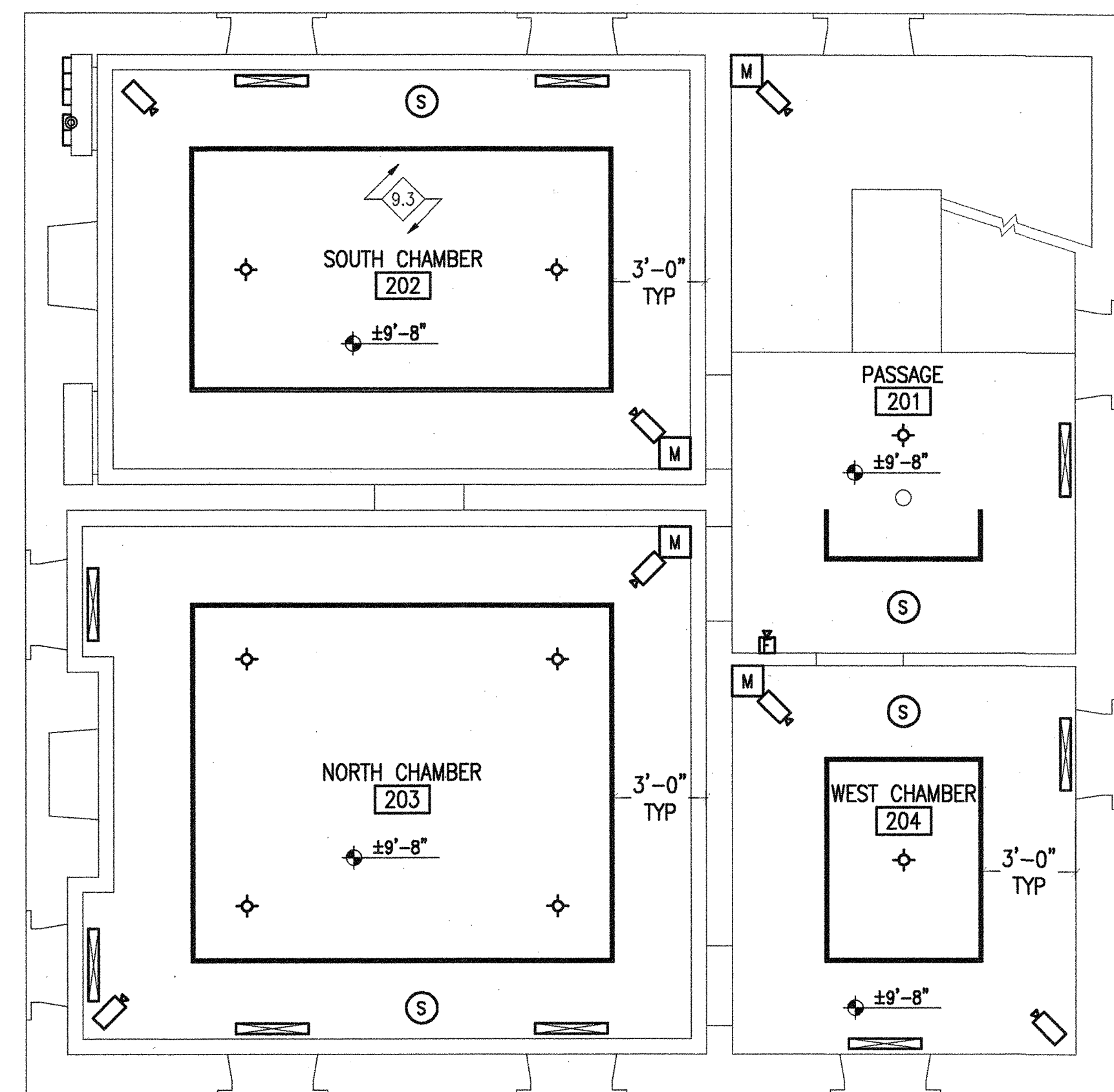
- ◆ SPRINKLER HEAD - SEE PLUMBING DRAWINGS
- ▬ MECHANICAL REGISTER - SEE MECHANICAL DRAWINGS
- ⊠ MECHANICAL REGISTER - SEE MECHANICAL DRAWINGS
- ⊠EF EXHAUST FAN - SEE MECHANICAL DRAWINGS
- ┌ TRACK LIGHTING - SEE ELECTRICAL DRAWINGS
- ▭ FLUORESCENT FIXTURE - SEE ELECTRICAL DRAWINGS
- Ⓜ MOTION DETECTOR - SEE ELECTRICAL DRAWINGS
- Ⓜ SECURITY CAMERA - SEE ELECTRICAL DRAWINGS LOCATION
- Ⓜ SIGNALLING DEVICE - SEE ELECTRICAL DRAWINGS
- Ⓢ SMOKE DETECTOR - SEE ELECTRICAL DRAWINGS
- ±8'-0" CEILING HEIGHT
- RECESSED FIXTURE - SEE ELECTRICAL

GENERAL NOTES:

1. SEE FLOOR PLANS AND PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

WORK NOTES:

7. PROVIDE 6" FIBERGLASS BATT INSULATION AT RAFTERS BETWEEN ROOF PEAK AND CEILING OF THIRD FLOOR.
- 9.3 REPAIR CRACKS AND PROVIDE PLASTER SKIMCOAT AT ENTIRE CEILING THIS ROOM.



2ND FLOOR REFLECTED CEILING PLAN
1/4" = 1'-0"
0 1' 2' 4' 8' 12'

3RD FLOOR REFLECTED CEILING PLAN
1/4" = 1'-0"
0 1' 2' 4' 8' 12'

WILLOUGHBY - BAYLOR HOUSE RENOVATION
 NORFOLK, VIRGINIA
2ND & 3RD FLOOR REFLECTED CEILING PLANS

REVISION	DATE
4-1-03	

DRAWN: NSM
CHECKED: JPCH
DATE: 17 OCT 2002
PROJECT NO: 02036.00

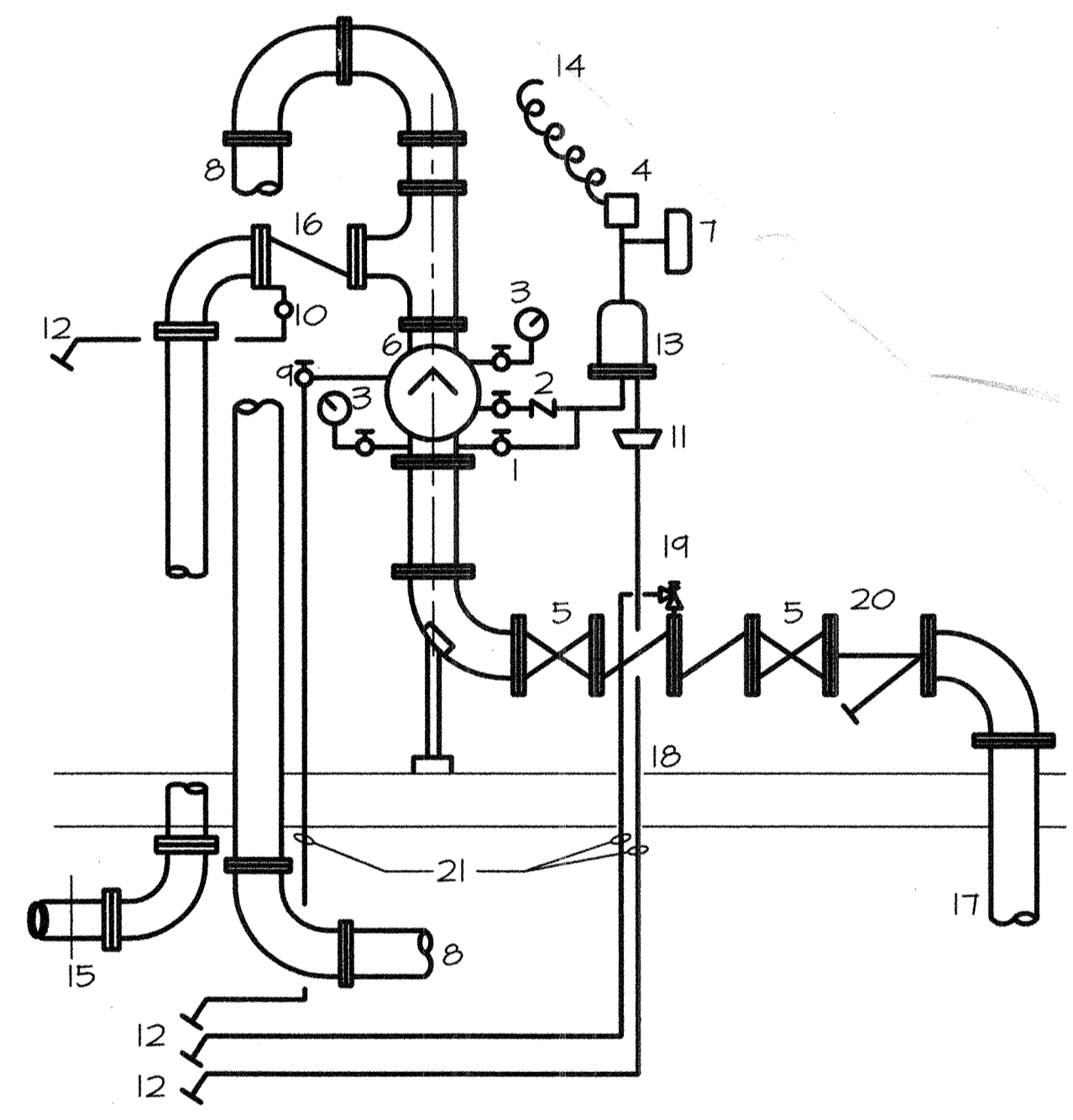
LEGEND		
SYMBOL	ABBREVIATION	DEFINITION
	AFF	ABOVE FINISHED FLOOR
	DN.	DOWN
	EX	EXISTING
	SP	SUMP PUMP
	VTR	VENT THRU ROOF
		REMOVE EXISTING TO THIS POINT
		CONNECT NEW TO EXISTING
		NEW WORK NOTE DESIGNATION
		DEMOLITION NOTE DESIGNATION
		PIPE TURNING UP
		PIPE TURNING DOWN
		RISE OR DROP IN PIPE
		BOTTOM PIPE CONNECTION
		TOP PIPE CONNECTION
		GAS PIPING
	CW	COLD WATER PIPING
	HW	HOT WATER PIPING
		WASTE WATER PIPING
		VENT PIPING
	PD	PUMPED DRAIN
		GATE VALVE
		TEMPERATURE AND PRESSURE RELIEF VALVE
		CHECK VALVE
	BFP	BACK FLOW PREVENTER
		UNION
	CO	CLEAN OUT (FLOOR)
	WCO	CLEAN OUT (WALL)
	WH	WALL HYDRANT
	HB	HOSE BIBB
		WATER HAMMER ARRESTER
		SPRINKLER RISER
		SPRINKLER HEADS UPRIGHT
		SPRINKLER HEADS PENDENT
		SECTION DESIGNATION
		SECTION LOCATED ON THIS SHEET
		SECTION CUT FROM THIS SHEET

GENERAL NOTES:

- SLOPES AND INVERT ELEVATIONS OF ALL INTERIOR PIPING SHALL BE ESTABLISHED BEFORE ANY PIPING IS INSTALLED, IN ORDER THAT PROPER SLOPES WILL BE MAINTAINED. ALL PIPING SHALL BE LOCATED AND DETERMINED WHERE TO BE RUN TO AVOID CONFLICT WITH OTHER TRADES.
- COORDINATE WITH ARCHITECTURAL WORKING DRAWINGS BEFORE ROUGHING IN PLUMBING FIXTURES.
- MAKE PROPER HOT AND COLD WATER, WASTE AND VENT PIPING CONNECTIONS TO ALL FIXTURES AND EQUIPMENT EVEN THOUGH ALL BRANCH MAINS, FITTINGS AND CONNECTIONS ARE NOT SHOWN.
- ALL OPENINGS IN CEILINGS AND PLENUM WALLS FOR PLUMBING PIPES SHALL BE SEALED AIR TIGHT.
- ALL SANITARY AND STORM SEWER PIPING SHALL BE CAST IRON.
- SEE SITE PLAN FOR EXTENT OF ALL PIPING LEAVING AND ENTERING BUILDING.
- SLOPES AND INVERT ELEVATIONS OF SEWERS, SHALL BE ESTABLISHED AND VERIFIED BY PLUMBING CONTRACTOR BEFORE ANY PIPING IS INSTALLED IN ORDER THAT PROPER SLOPES WILL BE MAINTAINED AND NECESSARY INVERT ELEVATIONS OBTAINED.

LEGEND

- ALARM TEST VALVE
- ALARM SHUT-OFF AND CHECK VALVE
- WATER PRESSURE GAUGES
- WATER FLOW ALARM SWITCH
- O.S.&Y. GATE VALVE
- SPRINKLER ALARM VALVE
- WATER MOTOR GONG
- NET PIPE SPRINKLER SYSTEM (SEE FLOOR PLAN SHEET P-3)
- MAIN DRAIN VALVE
- AUTOMATIC DRIP
- DRIP CUP
- DRAIN THRU EXTERIOR WALL
- RETARDING CHAMBER
- CONNECT TO FIRE ALARM SYSTEM
- SIAMESE FIRE DEPT. CONNECTION
- CHECK VALVE
- SPRINKLER SUPPLY
- FINISHED FLOOR
- REDUCED PRESSURE BACKFLOW PREVENTER
- STRAINER
- EXTEND DRAIN PIPING DOWN THROUGH FLOOR TO CRAWL SPACE. EXTEND PIPING TO EXTERIOR WALL TO SPILL ON GRADE AT 8" ABOVE EXISTING GRADE.

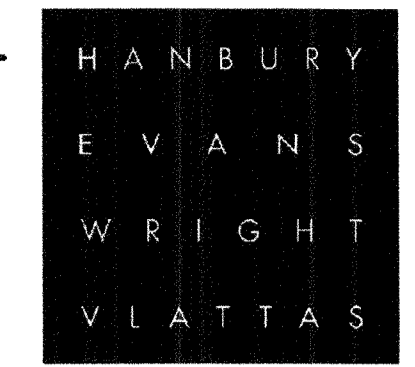


SPRINKLER ALARM VALVE DETAIL
NOT TO SCALE

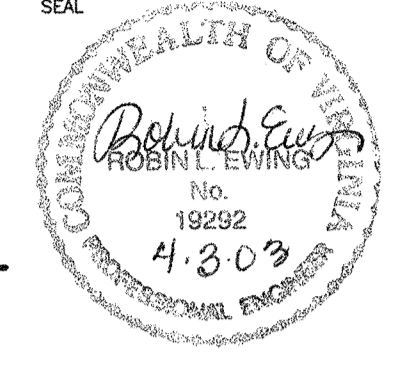
SPRINKLER SYSTEM DESIGN BASIS

SYSTEM TYPE:	WET PIPE
OCCUPANCY CLASS:	LIGHT HAZARD
DESIGN DENSITY:	0.10 GAL/MIN/FT ²
DESIGN AREA:	1500 FT ²
HOSE STREAM:	100 GAL/MIN
WATER SUPPLY DATA:	THE AVAILABLE EXISTING WATER IS AS FOLLOWS:
THE AVAILABLE EXISTING WATER FLOW DATA WAS TAKEN ON JUNE 2002. THE DATA IS AS FOLLOWS;	
THE HYDRANT TEST DATA WAS TAKEN AT THE HYDRANT LOCATED AT THE CORNER OF FREEMASON STREET AND CUMBERLAND STREET. THE STATIC PRESSURE IS 62 PSI, THE RESIDUAL IS 42 PSI AT A FLOW OF 1090 GPM.	

Wet vs. Dry Alarm?



NORFOLK



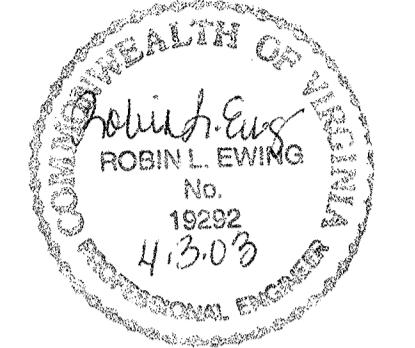
WILLOUGHBY - BAYLOR HOUSE RENOVATION

NORFOLK, VIRGINIA

LEGEND AND NOTES

REVISION	DATE
4-1-03	
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DATE	17 OCT 2002
PROJECT NO	02036.00

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P-1



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WILLOUGHBY - BAYLOR HOUSE RENOVATION
NORFOLK, VIRGINIA

DEMOLITION PLANS AND NOTES

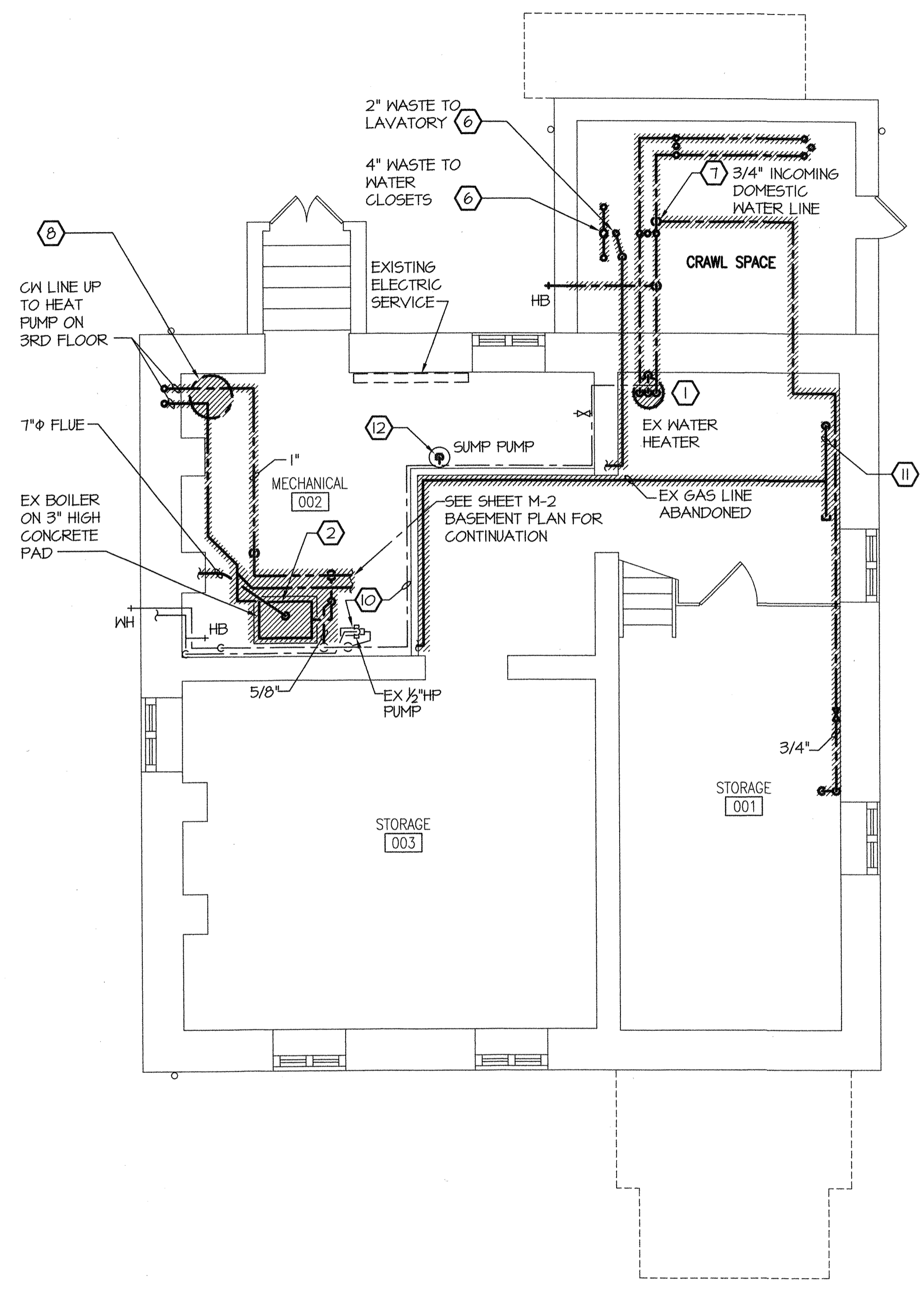
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DATE	17 OCT 2002
PROJECT NO.	02036.00

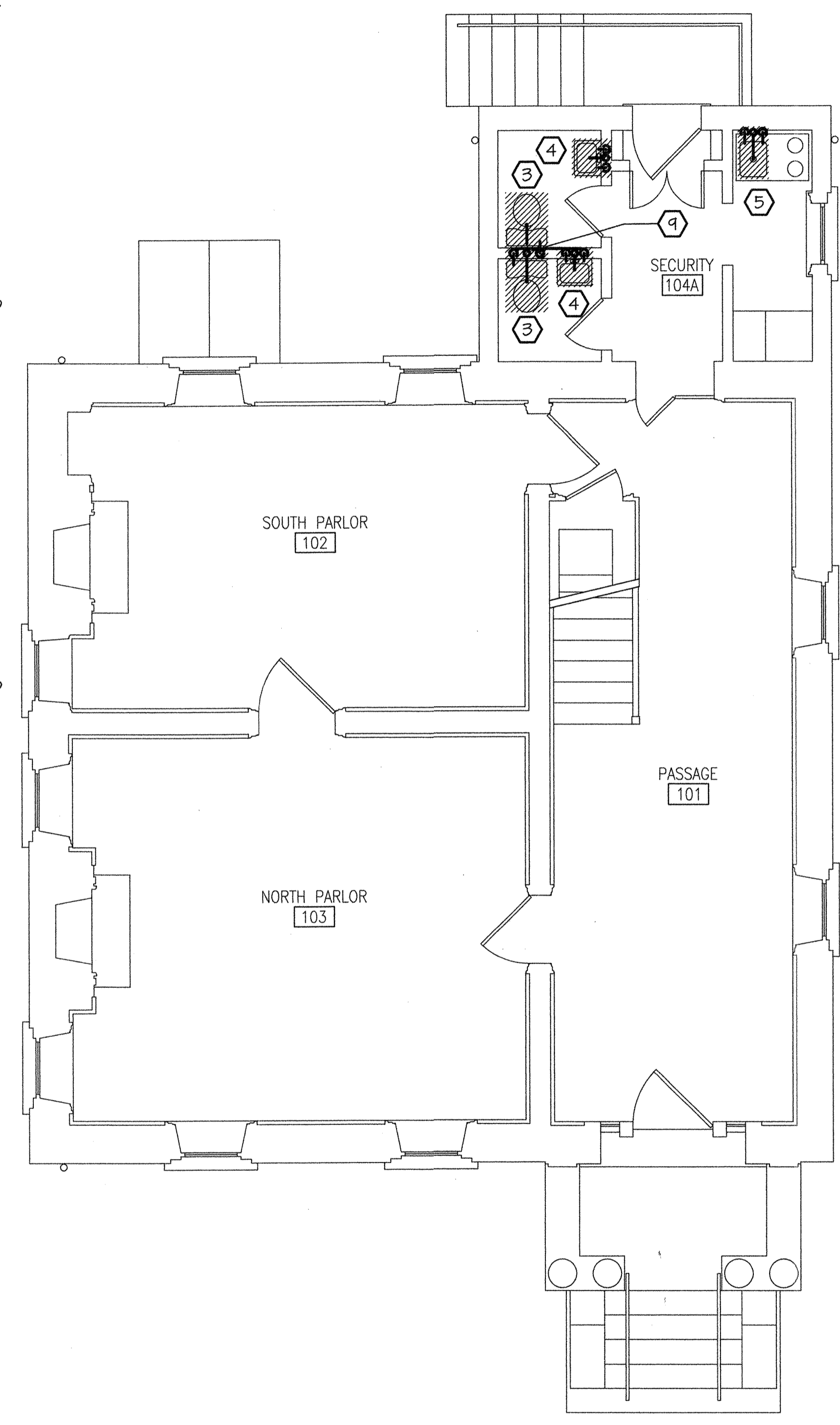
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DEMOLITION NOTES:

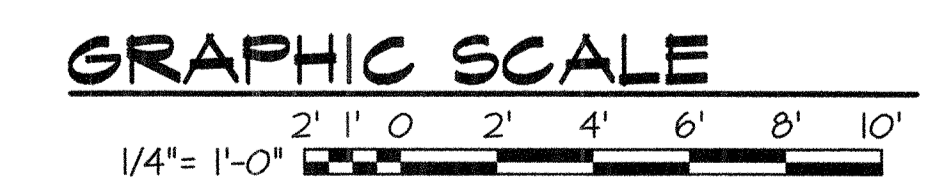
- ① REMOVE EXISTING WATER HEATER, PIPING INSULATION, PIPING, PIPE HANGERS AND ALL ASSOCIATED APPURTENANCES AND DISCARD.
- ② REMOVE EXISTING ABANDONED GAS BOILER, VENT PIPING, PIPING INSULATION, PIPING, HANGERS AND ALL ASSOCIATED APPURTENANCES AND DISCARD.
- ③ REMOVE EXISTING WATER CLOSET, WASTE PIPING, WATER PIPING, WAX SEAL AND ALL ASSOCIATED APPURTENANCES.
- ④ REMOVE EXISTING LAVATORY, HANGER, WATER PIPING, WASTE PIPING, VENT PIPING, SHUT-OFF VALVES AND ALL ASSOCIATED APPURTENANCES.
- ⑤ DISCONNECT EXISTING KITCHEN SINK UNIT AND ALL ASSOCIATED APPURTENANCES.
- ⑥ REMOVE EXISTING WASTE PIPING TO JUST ABOVE GRADE AND CAP FOR FUTURE USE.
- ⑦ REMOVE EXISTING WATER PIPING TO JUST ABOVE GRADE AND CAP FOR FUTURE USE.
- ⑧ DISCONNECT AND REMOVE EXISTING BLADDER EXPANSION TANK.
- ⑨ EXISTING VENT PIPING SHALL BE REMOVED FROM FIXTURE TO ABOVE CEILING. VENT THROUGH ROOF SHALL BE REUSED. SEE NEW PLAN FOR CONNECTION.
- ⑩ PUMP AND WELL PIPING TO REMAIN.
- ⑪ EXISTING 1 1/2" GAS PIPING TO BE REMOVED TO 6" ABOVE GRADE; CAPPED AND LABELED "GAS LINE".
- ⑫ EXISTING SUMP PUMP TO BE REMOVED.



PLUMBING DEMOLITION PLAN - BASEMENT
SCALE: 1/4" = 1'-0"

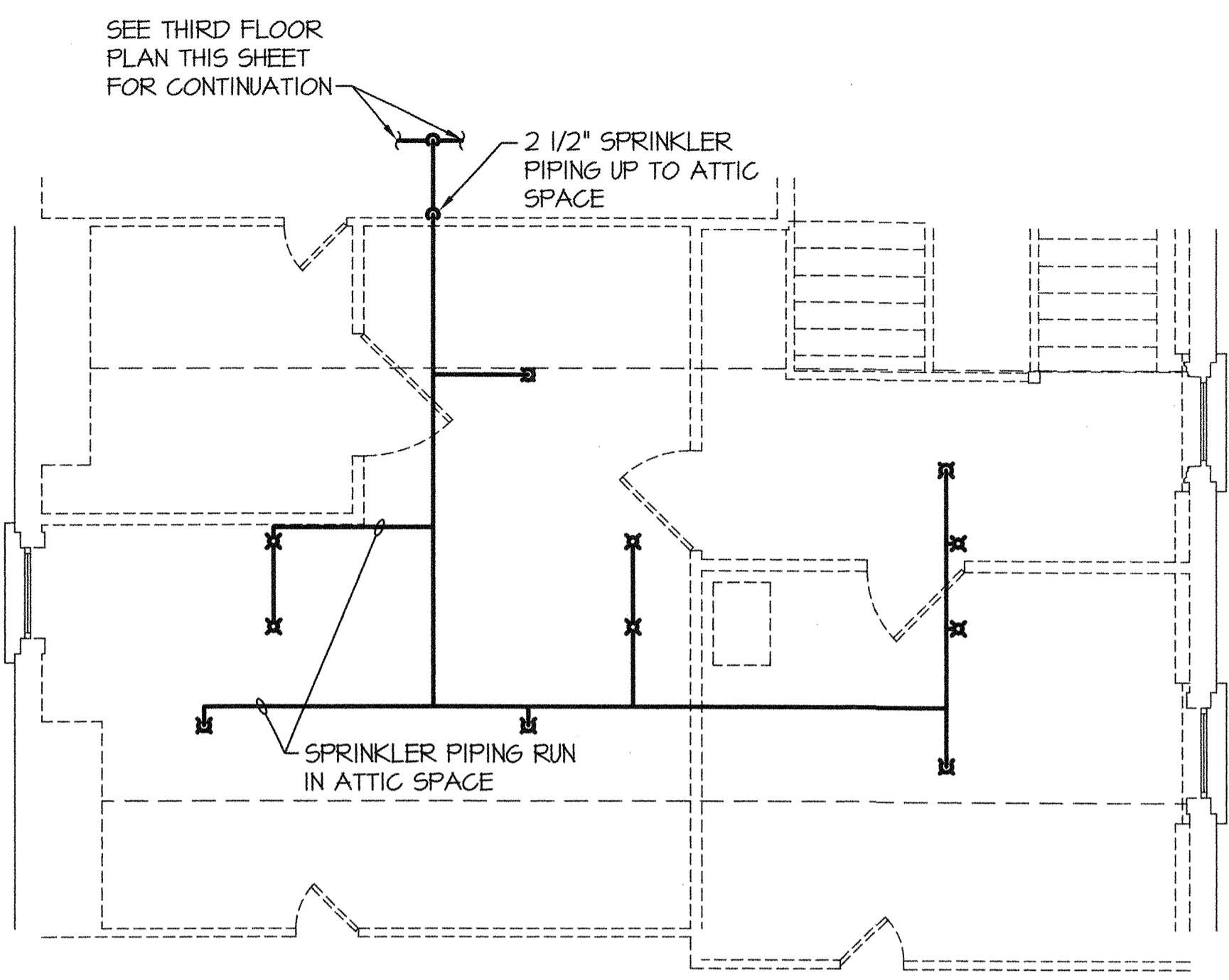


PLUMBING DEMOLITION PLAN - 1ST FLOOR
SCALE: 1/4" = 1'-0"

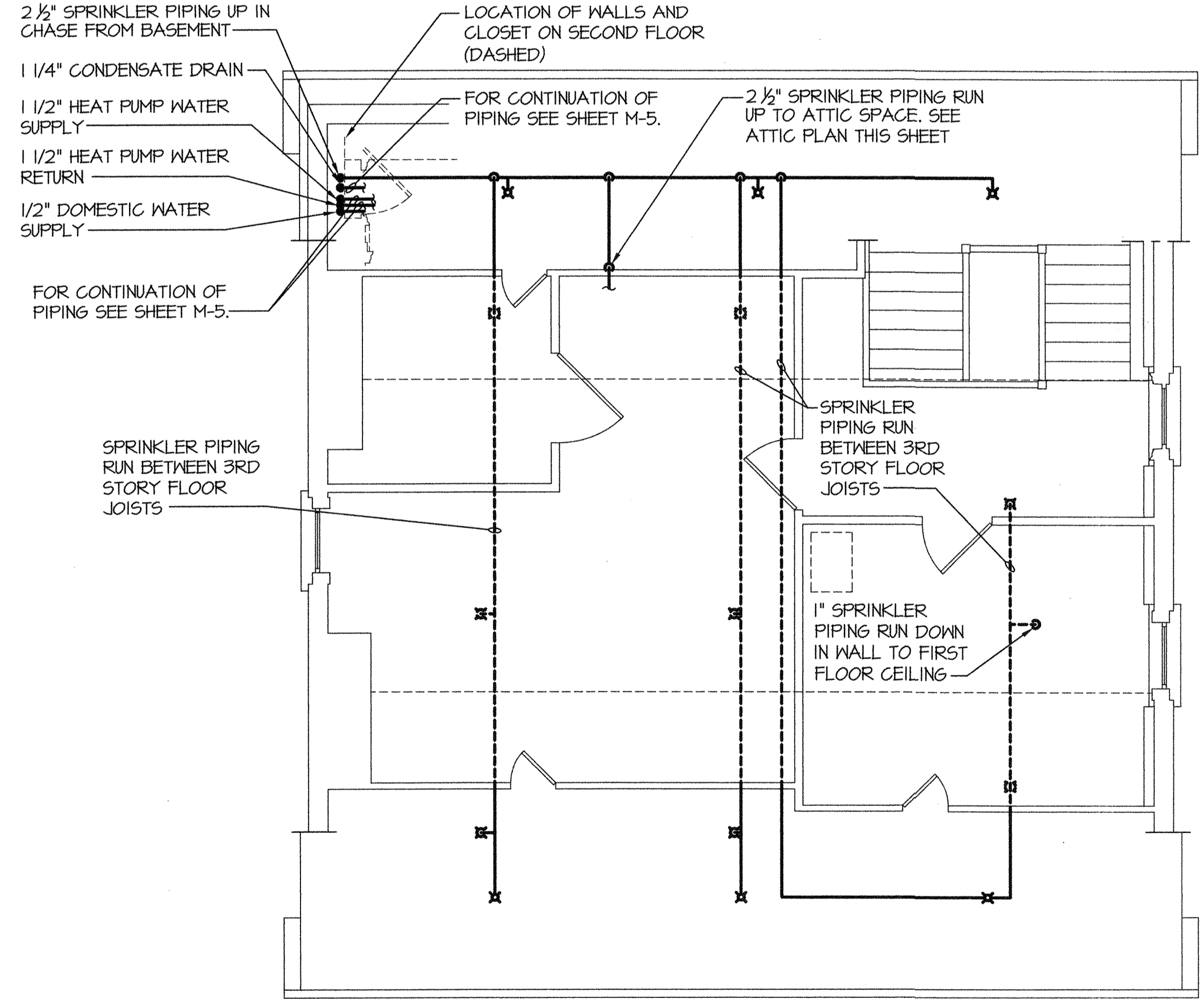


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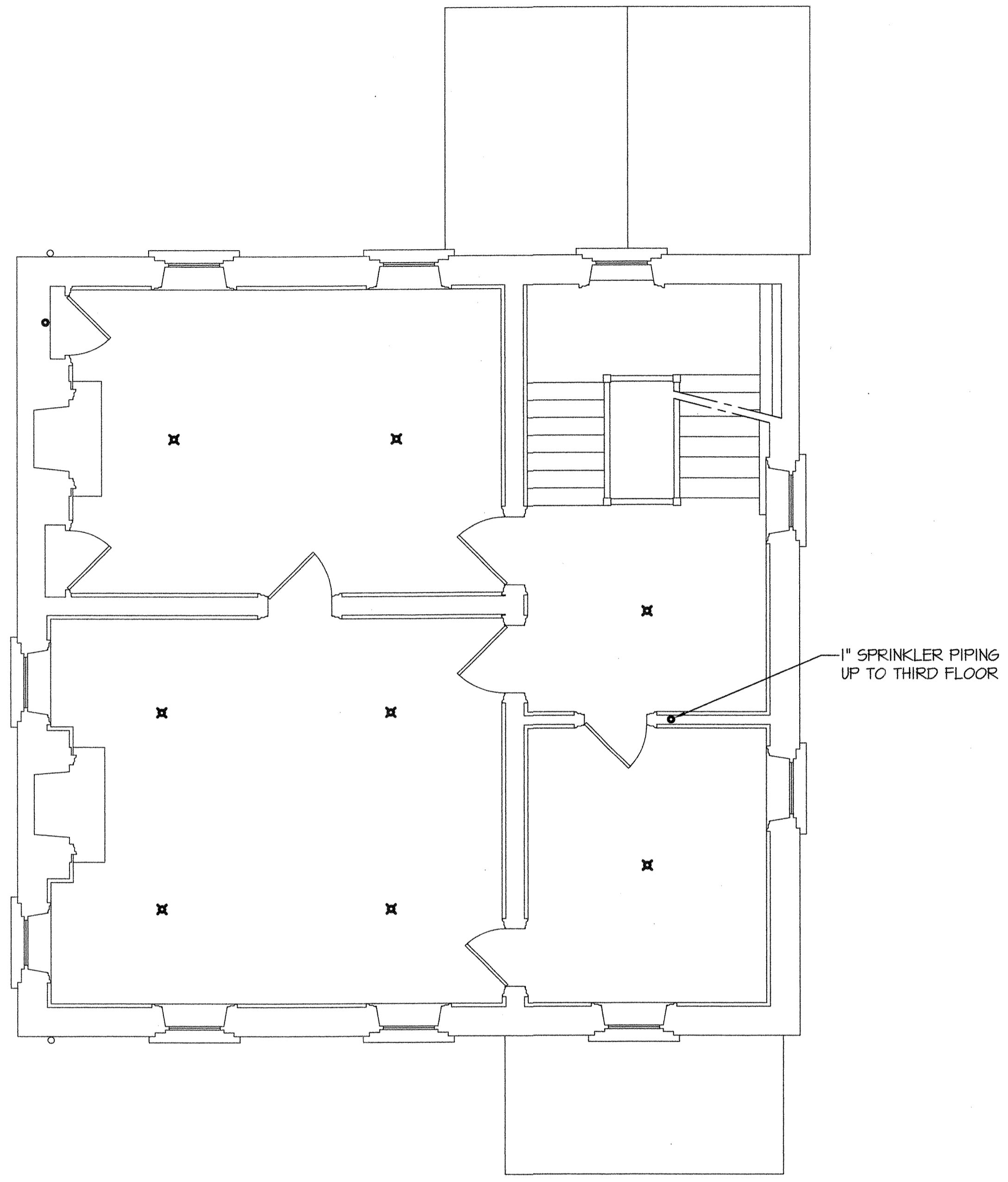
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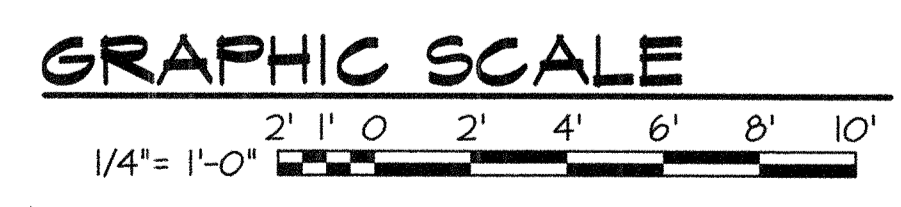
PLUMBING NEW WORK PLAN - ATTIC SPACE
SCALE: 1/4" = 1'-0"



PLUMBING NEW WORK PLAN - 3RD FLOOR
SCALE: 1/4" = 1'-0"

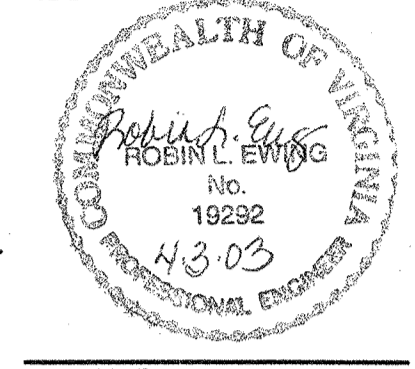


PLUMBING NEW WORK PLAN - 2ND FLOOR
SCALE: 1/4" = 1'-0"



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WILLOUGHBY - BAYLOR HOUSE RENOVATION

NORFOLK, VIRGINIA

NEW WORK PLANS

REVISION	DATE
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PROJECT NO: 02036.00

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PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	MANUFACTURER	MODEL No.	MATERIAL	SIZE	SEAT	FLUSH VALVE	FAUCET & DRAIN	TRAP	SUPPLIES & STOPS	PIPE SIZES			MOUNTING	REMARKS
											WASTE	H.W.	C.W.		
P-1	WATER CLOSET	AMERICAN STANDARD	2898.014	VITREOUS CHINA	14" HIGH	CHURCH 295C	-	-	-	1 1/2" TOP 5/8" SPUD	4"	-	1/2"	FLOOR	① ③
P-2	LAVATORY	AMERICAN STANDARD	0355.012	VITREOUS CHINA	20"x18"	-	-	5502.140	-	3/8" ANGLE	1 1/4"	1/2"	1/2"	WALL	② ③

- NOTES:
- ① INSTALL VALVE WITH HANDLE ON WIDE SIDE OF STALL.
 - ② LEVER HANDLES WITH STRAINER DRAIN.
 - ③ FIXTURES SHALL BE WHITE.

ELECTRIC WATER HEATER SCHEDULE

MARK	MANUFACTURER & MODEL #	STORAGE CAPACITY (GAL.)	RECOVERY		ELECTRICAL DATA			REMARKS	
			GPH	RISE (°F)	ELEMENT KW	No. OF ELEM.	VOLTAGE		PHASE
EW-1	STATE/SCI-4-ISUS4-E	4	7	55	3800	2	240	1	

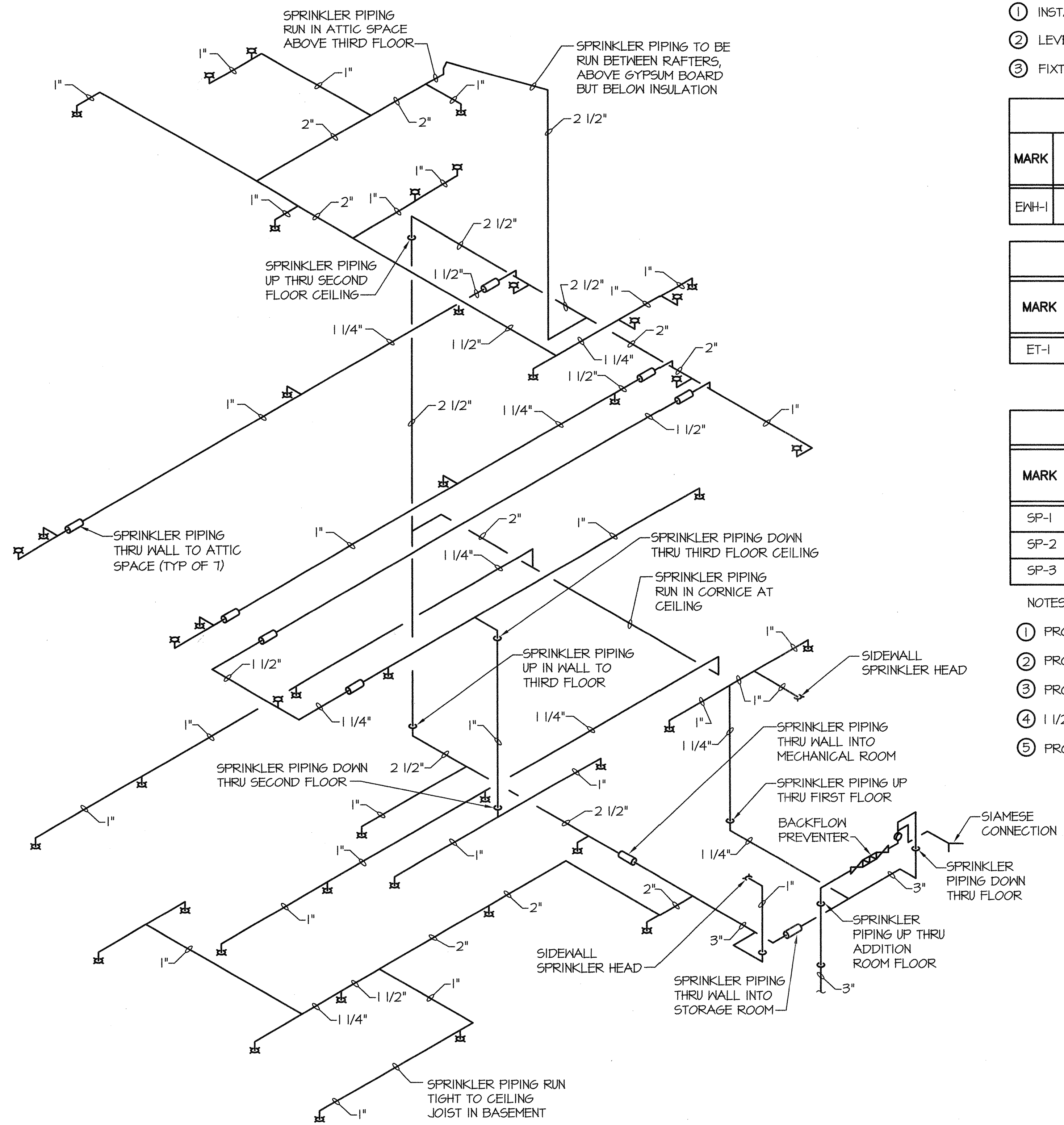
EXPANSION TANK SCHEDULE

MARK	TANK VOLUME GALLONS	TANK ACCEPTANCE GALLONS	CONNECTION SIZE INCHES	INITIAL PRESSURE PSIG	HEIGHT INCHES	DIAMETER INCHES	MANUFACTURER		REMARKS
							MAKE	MODEL	
ET-1	4.4	3.2	3/4"	45	15	11	AMTROL	ST-12	DOMESTIC WATER SERVICE

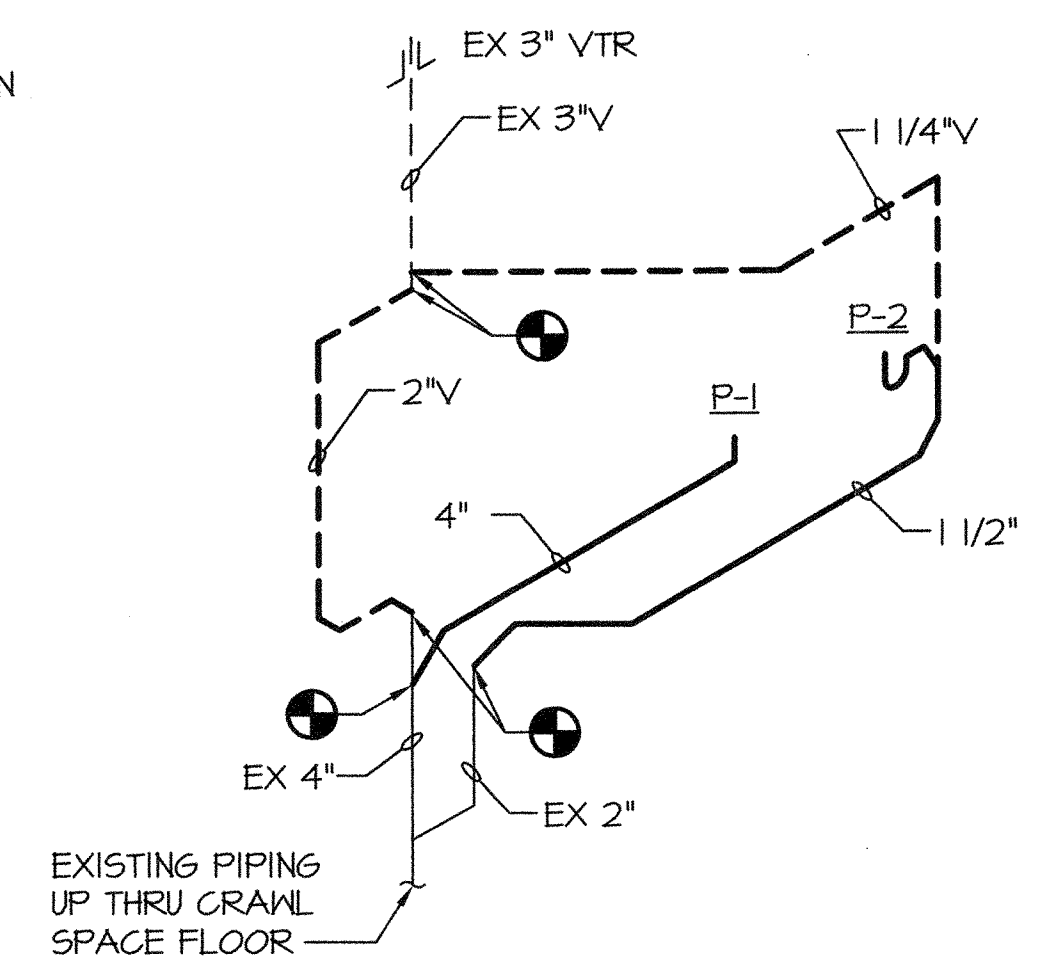
SUMP PUMP SCHEDULE

MARK	MANUFACTURER & MODEL #	HP	MAXIMUM POWER CONSUMPTION	TOTAL HEAD (PSI)	TOTAL FLOW (GPM)	ELECTRICAL DATA			REMARKS
						Hz	VOLTAGE	PHASE	
SP-1	ZOLLER 48	1/4	8.2 AMPS	15	10	60	120	1	① ② ③ ④ ⑤ ⑥ ⑦ ⑧
SP-2	ZOLLER 48	1/4	8.2 AMPS	15	10	60	120	1	① ② ③ ④ ⑤ ⑥ ⑦ ⑧
SP-3	ZOLLER 48	1/4	8.2 AMPS	15	10	60	120	1	① ② ③ ④ ⑤ ⑦ ⑧

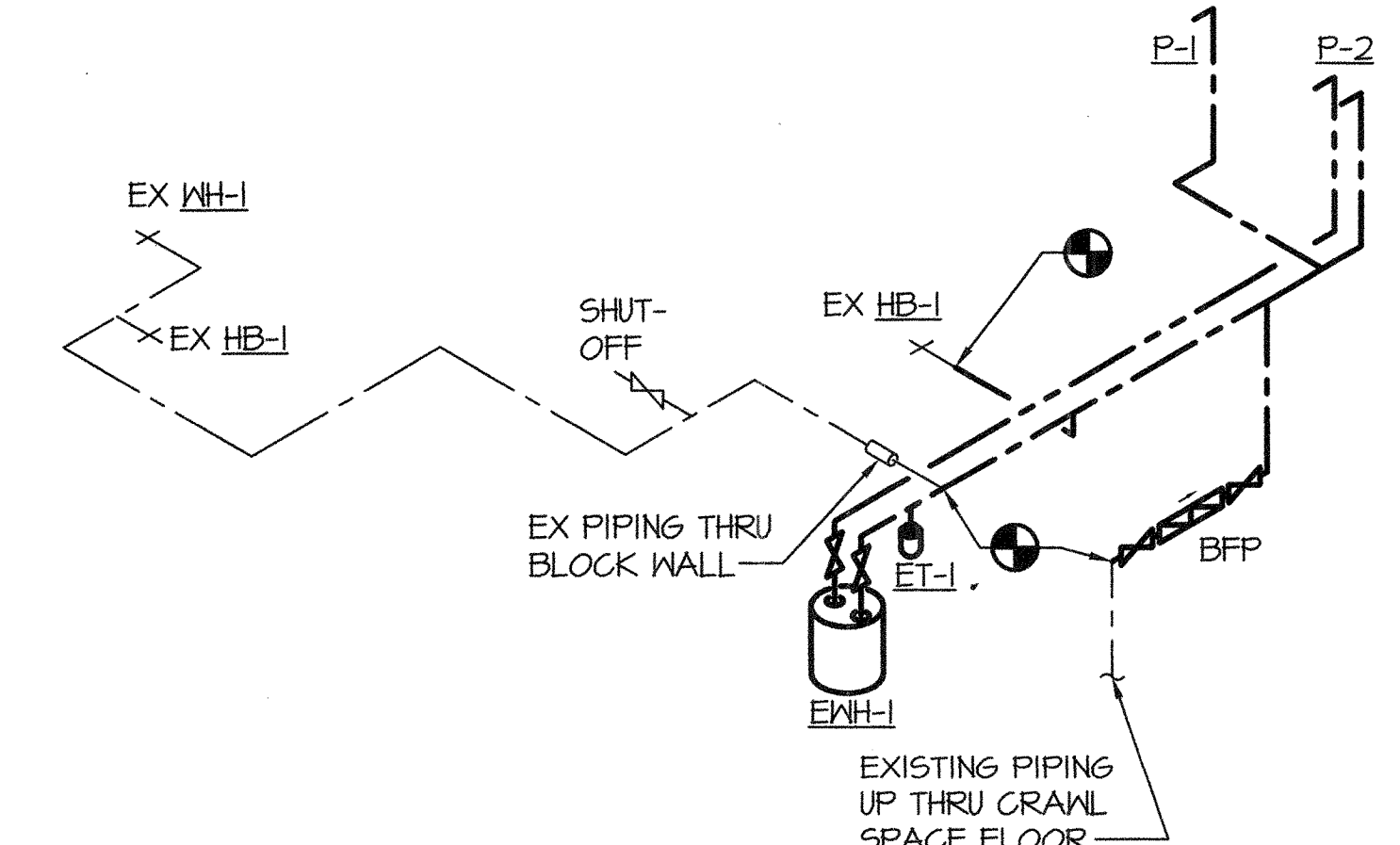
- NOTES:
- ① PROVIDE CORROSION RESISTANT POWER COATED EPOXY FINISH.
 - ② PROVIDE UL LISTED 3-WIRE NEOPRENE CORD AND PLUG.
 - ③ PROVIDE AUTOMATIC RESET THERMAL OVERLOAD PROTECTION.
 - ④ 1 1/2" NPT DISCHARGE.
 - ⑤ PROVIDE AUTOMATIC TEATHERED FLOAT SWITCH.
 - ⑥ PROVIDE PUMP WITH FIBERGLASS SUMP BASIN, 18" DIAMETER x 30" DEEP. SEE ARCHITECTURAL PLAN FOR COORDINATION OF BURIAL DEPTH AND SIDE CONNECTION OF DRAINAGE PIPE.
 - ⑦ PROVIDE ALARMING SYSTEM TO SEND SIGNAL TO DIRECT DIGITAL PANEL.
 - ⑧ PROVIDE CHECK VALVE.



SPRINKLER RISER DIAGRAM
NOT TO SCALE



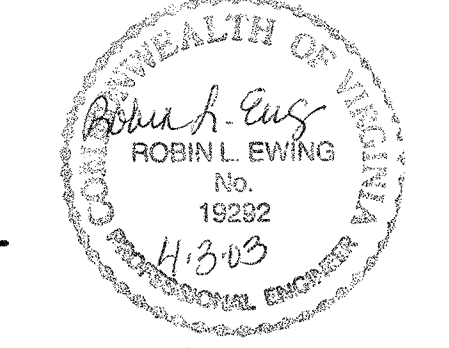
WASTE RISER DIAGRAM
NOT TO SCALE



WATER RISER DIAGRAM
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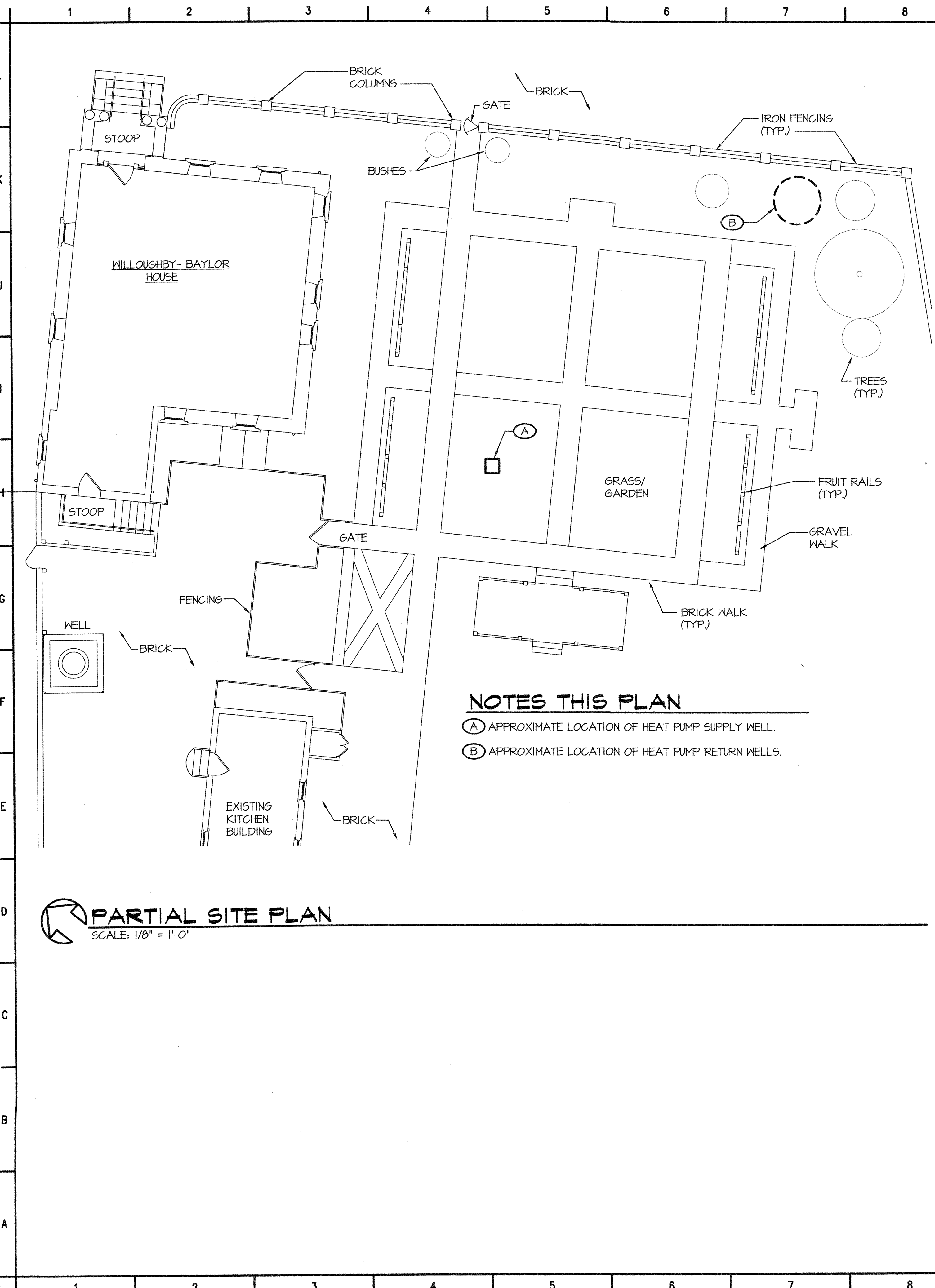
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WILLOUGHBY - BAYLOR HOUSE RENOVATION
NORFOLK, VIRGINIA
SCHEDULES AND RISER DIAGRAMS

REVISION	DATE
	4-1-03
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DATE	17 OCT 2002
PROJECT NO.	02036.00

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PARTIAL SITE PLAN
SCALE: 1/8" = 1'-0"

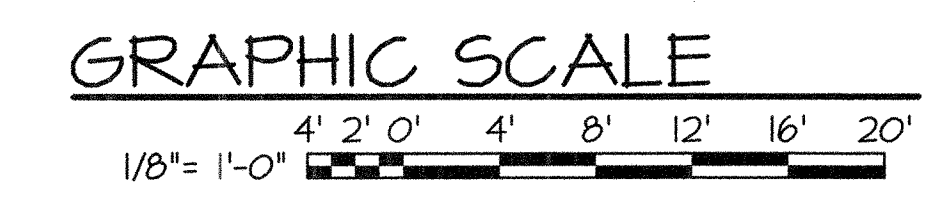
NOTES THIS PLAN
 (A) APPROXIMATE LOCATION OF HEAT PUMP SUPPLY WELL.
 (B) APPROXIMATE LOCATION OF HEAT PUMP RETURN WELLS.

GENERAL NOTES:

1. THE EXISTING HVAC SYSTEM FOR THE WILLOUGHBY-BAYLOR HOUSE CONSISTS OF WATER SOURCE HEAT PUMP UNITS. THE PUMP FOR THE WELL IS LOCATED IN THE WELL. THERE IS A HEAT PUMP UNIT LOCATED IN THE BASEMENT AND ONE IN THE THIRD FLOOR. THE INTENT OF THIS PROJECT IS TO REMOVE THE EXISTING HEAT PUMP UNITS, DUCTWORK AND PIPING BACK TO BASEMENT. THE EXISTING WELLS AND PIPING INTO THE BASEMENT SHALL BE REUSED.
2. GALVANIZED STEEL DUCTS WITH INSULATION FOR THE SUPPLY AND RETURN AIR TO BOTH UNITS. DUCTWORK IS LOCATED IN THE BASEMENT AND THIRD FLOOR.
3. THE BASEMENT CONSISTS OF A MECHANICAL ROOM AND STORAGE AREAS. THE MECHANICAL ROOM HAS A CONCRETE FLOOR WITH A SUMP PUMP. THE STORAGE AREAS HAVE UNFINISHED FLOORS. THEY ARE A MIXTURE OF DIRT AND GRAVEL.
4. THE DRAWINGS REPRESENT FIELD NOTES FROM FIELD VISITS FOR ALL EXISTING EQUIPMENT AND APPURTENANCES. THE CONTRACTOR SHALL EXPECT MINOR DEVIATIONS FROM THE ACTUAL INSTALLATION.
5. THE CONTRACTOR SHALL THOROUGHLY REVIEW AND EXAMINE THE CONTRACT DRAWINGS OF ALL DISCIPLINES. THE CONTRACTOR SHALL COORDINATE WITH ALL DISCIPLINES TO PREVENT ANY CONFLICT OF WORK AND PROVIDE A WORKMANLIKE AND FIRST CLASS COMPLETED INSTALLATION.
6. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE SPECIFICATIONS AND MANUFACTURERS INSTALLATION INSTRUCTIONS. ALL EQUIPMENT WITHIN THE BASEMENT IS INTENDED TO BE INSTALLED UP OFF THE FLOORING.
7. THE FLOOR SUPPLY GRILLES ON THE FIRST FLOOR IN THE NORTH AND SOUTH PARLOR ARE BRASS AND SHALL BE REUSED. THE CONTRACTOR SHALL PROVIDE CARE IN REMOVAL, HANDLING AND REINSTALLATION OF THESE DEVICES.
8. DUCTWORK DIMENSIONS ARE INSIDE CLEAR DIMENSIONS.
9. THE INSTALLATION OF THE MECHANICAL SYSTEM SHALL NOT DIMINISH THE HISTORIC VALUE OF THE BUILDING. THE INTENT OF THE MECHANICAL INSTALLATION IS TO HIDE PIPING, DUCTWORK AND EQUIPMENT. THE MECHANICAL SYSTEM IS INTENDED TO BE UNOBTRUSIVE AND NONDESTRUCTIVE OF THE BUILDING. MODIFICATIONS OF STRUCTURE AND FINISHES WILL BE NECESSARY TO MAINTAIN THE INTENT OF THIS INSTALLATION. THE CONTRACTOR SHALL WORK CLOSELY WITH THE ARCHITECTURAL DETAILS TO MAINTAIN FINISHES.

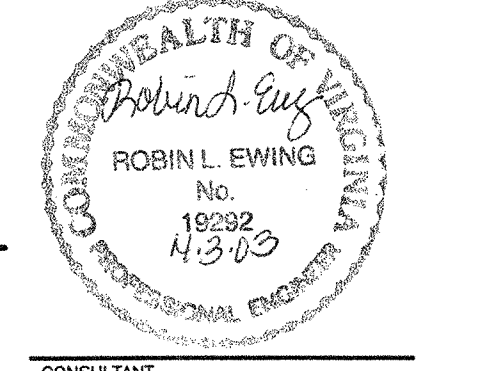
LEGEND

SYMBOL	ABBREVIATION	DEFINITION
		SUPPLY AIR DUCT (UP & DOWN)
		RETURN AIR DUCT (UP & DOWN)
		GRILLE, REGISTER, OR DIFFUSER DESIGNATION WITH CFM NOTED
		ELBOW WITH TURNING VANES
	VD	VOLUME DAMPER
		FLEX DUCT WITH SPIN-IN CONNECTION AND VOLUME DAMPER
		SPLITTER DAMPER
		FLEXIBLE DUCT CONNECTION
		DUCTWORK SLOPES DOWN
	AFF	ABOVE FINISHED FLOOR
	CFM	CUBIC FEET PER MINUTE
	DN.	DOWN
	EF-I	EXHAUST FAN DESIGNATION
	ESP	EXTERNAL STATIC PRESSURE
	EX	EXISTING
	FLA	FULL LOAD AMPS
	FPM	FEET PER MINUTE
	HP-I	HEAT PUMP AND UNIT NUMBER
	MCA	MINIMUM CIRCUIT AMPS
	MFS	MAXIMUM FUSE SIZE
	OA	OUTSIDE AIR
	PD	PRESSURE DROP
		UNDER CUT DOOR 3/4"
		REMOVE EXISTING TO THIS POINT
		CONNECT NEW TO EXISTING
		FAN SWITCH MOUNT @ 48" AFF
		THERMOSTAT MOUNT @ 60" AFF
		DUCT MOUNTED SMOKE DETECTOR
		NEW WORK NOTE DESIGNATION
		DEMOLITION NOTE DESIGNATION
		USED TO DESIGNATE THE DIAMETER OF ROUND DUCTWORK
		PIPE TURNING UP
		PIPE TURNING DOWN
		RISE OR DROP IN PIPE
		BOTTOM PIPE CONNECTION
		TOP PIPE CONNECTION
		GAS PIPING
		CONDENSATE DRAIN PIPING
		VENT PIPING
		GATE VALVE
		BALL VALVE
		UNION
		THERMOMETER
		THERMOMETER WELL
		SECTION DESIGNATION
		SECTION LOCATED ON THIS SHEET
		SECTION CUT FROM THIS SHEET



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WILLOUGHBY - BAYLOR HOUSE RENOVATION
 NORFOLK, VIRGINIA
 LEGEND AND NOTES

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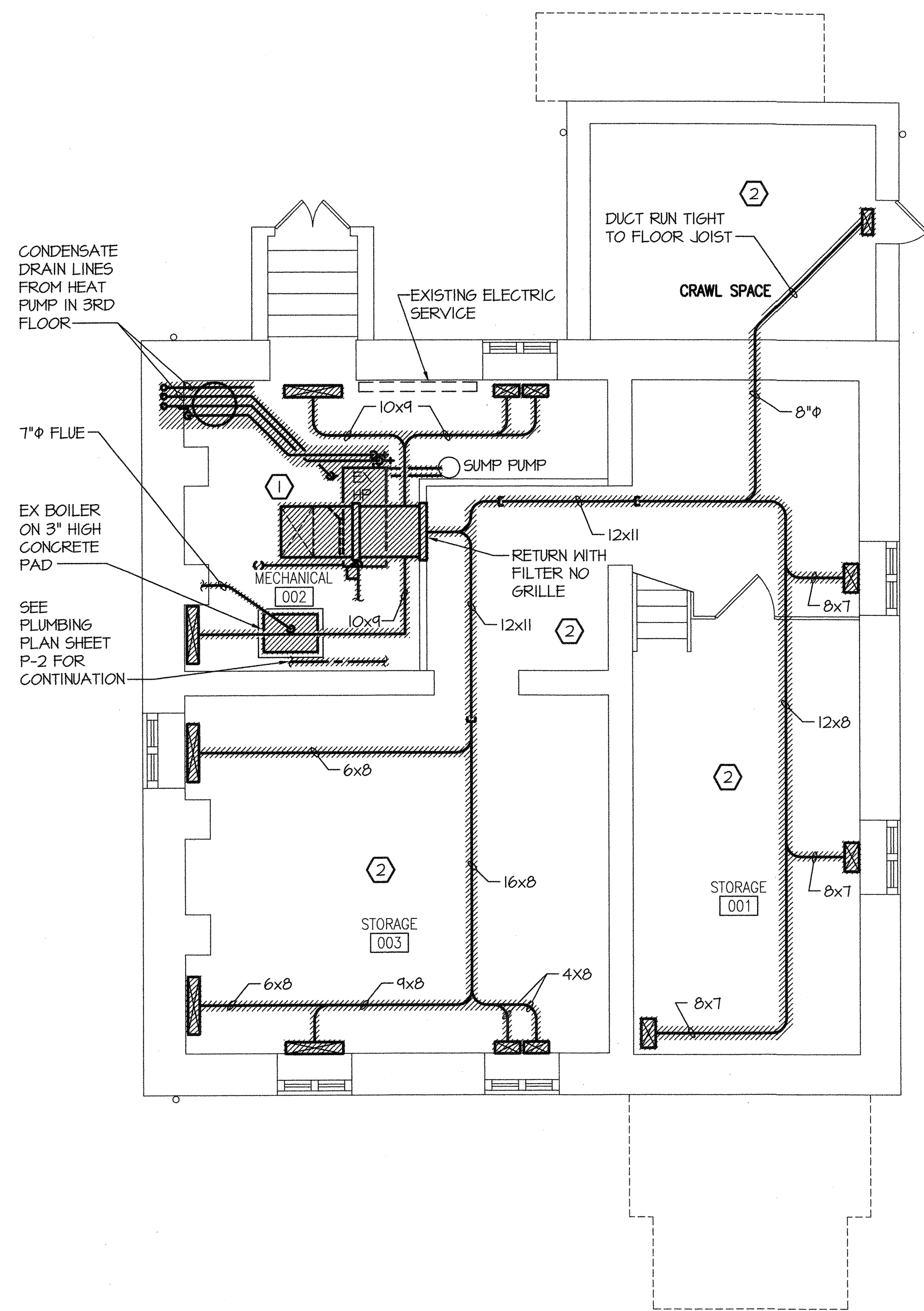
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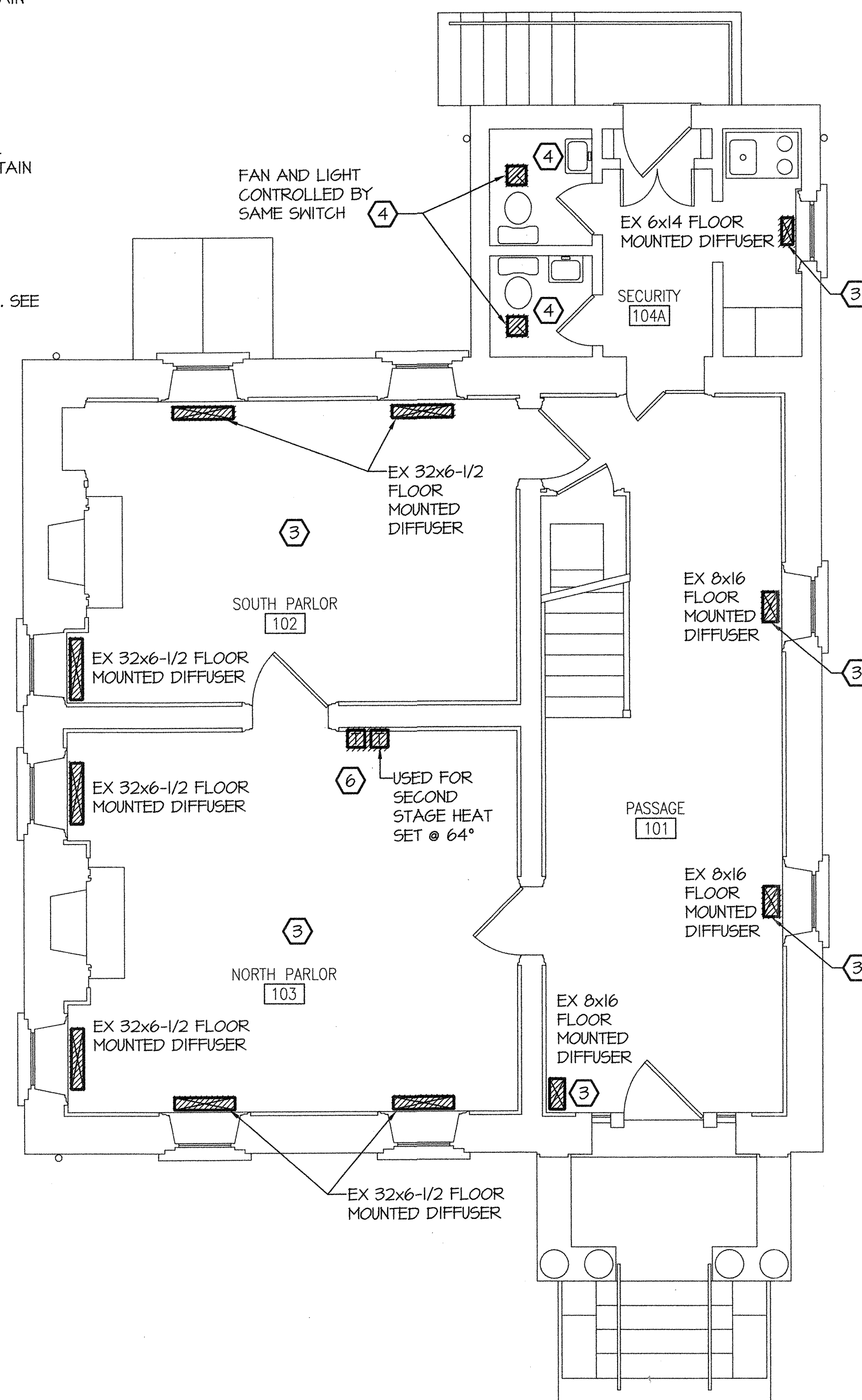
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DEMOLITION NOTES:

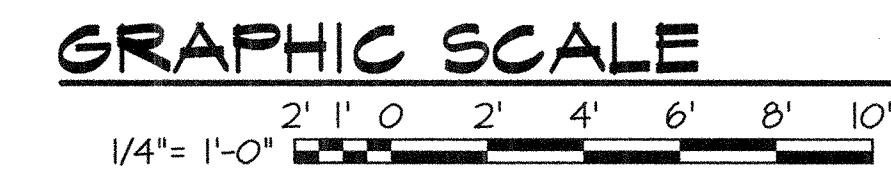
- ① REMOVE EXISTING HEAT PUMP, PIPING, DUCT, DRAIN PAN AND ALL ASSOCIATED APPURTENANCES.
- ② REMOVE EXISTING DUCT; HANGERS AND ALL ASSOCIATED APPURTENANCES.
- ③ REMOVE EXISTING FLOOR MOUNTED DIFFUSERS.
- ④ REMOVE EXISTING EXHAUST FAN, DUCT AND ALL ASSOCIATED APPURTENANCES UP TO ROOF. RETAIN 6" OF DUCT AT ROOF CAP.
- ⑤ REMOVE EXISTING TRANSFER GRILLES.
- ⑥ REMOVE EXISTING THERMOSTATS.
- ⑦ REMOVE EXISTING CEILING MOUNTED DIFFUSERS. SEE ARCHITECTURAL PLANS FOR CEILING PATCHING REQUIREMENTS.



MECHANICAL DEMOLITION PLAN - BASEMENT
SCALE: 1/4" = 1'-0"

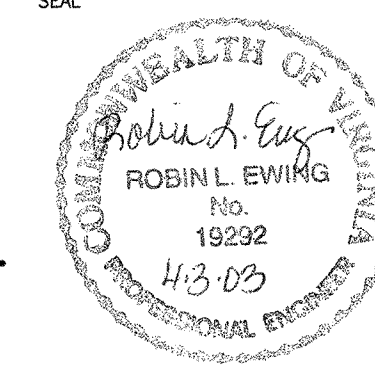


MECHANICAL DEMOLITION PLAN - 1ST FLOOR
SCALE: 1/4" = 1'-0"



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WILLOUGHBY - BAYLOR HOUSE RENOVATION
NORFOLK, VIRGINIA
MECHANICAL PLANS - DEMOLITION

REVISION DATE
4-1-03

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DATE 17 OCT 2002

PROJECT NO 02036.00

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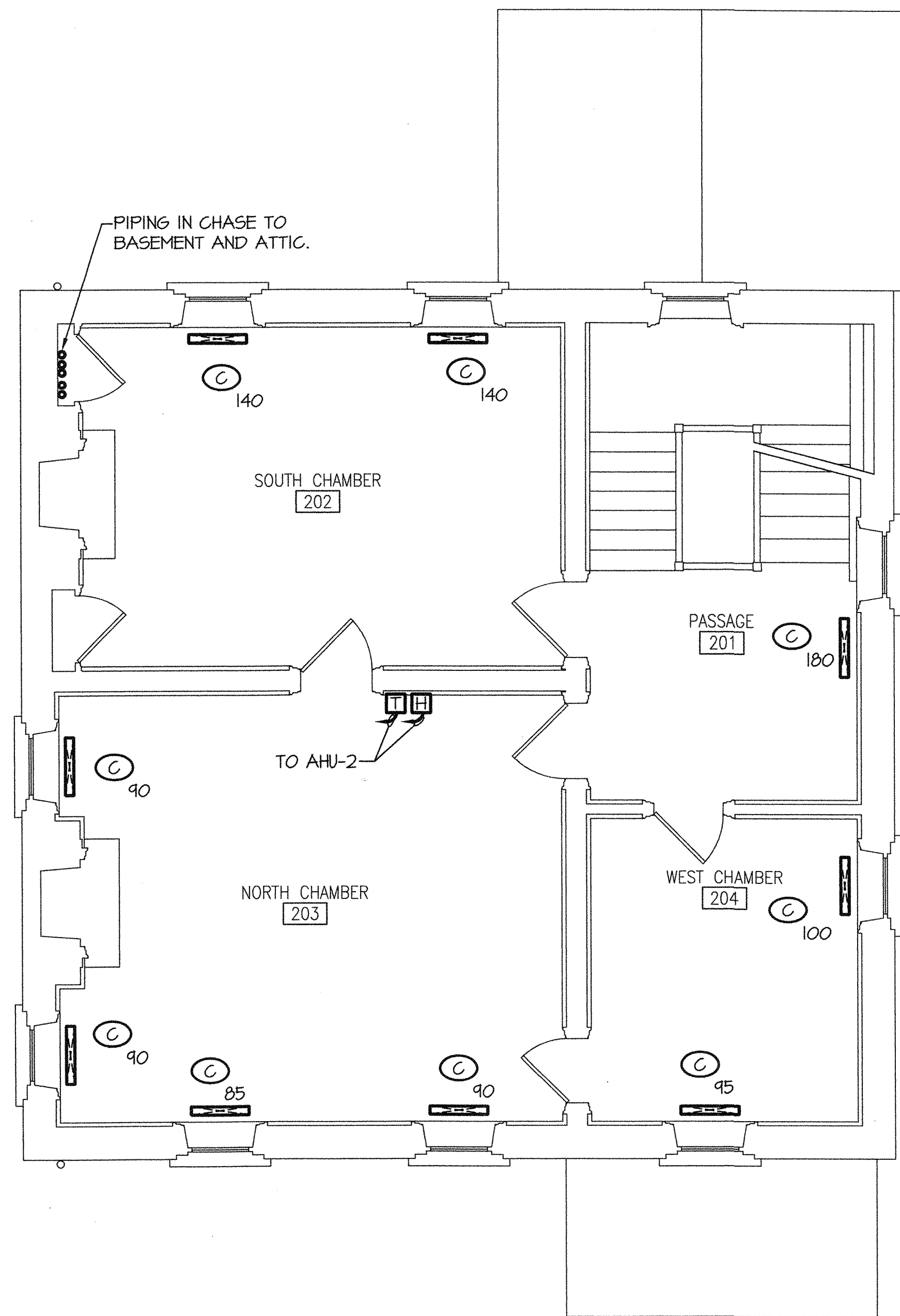
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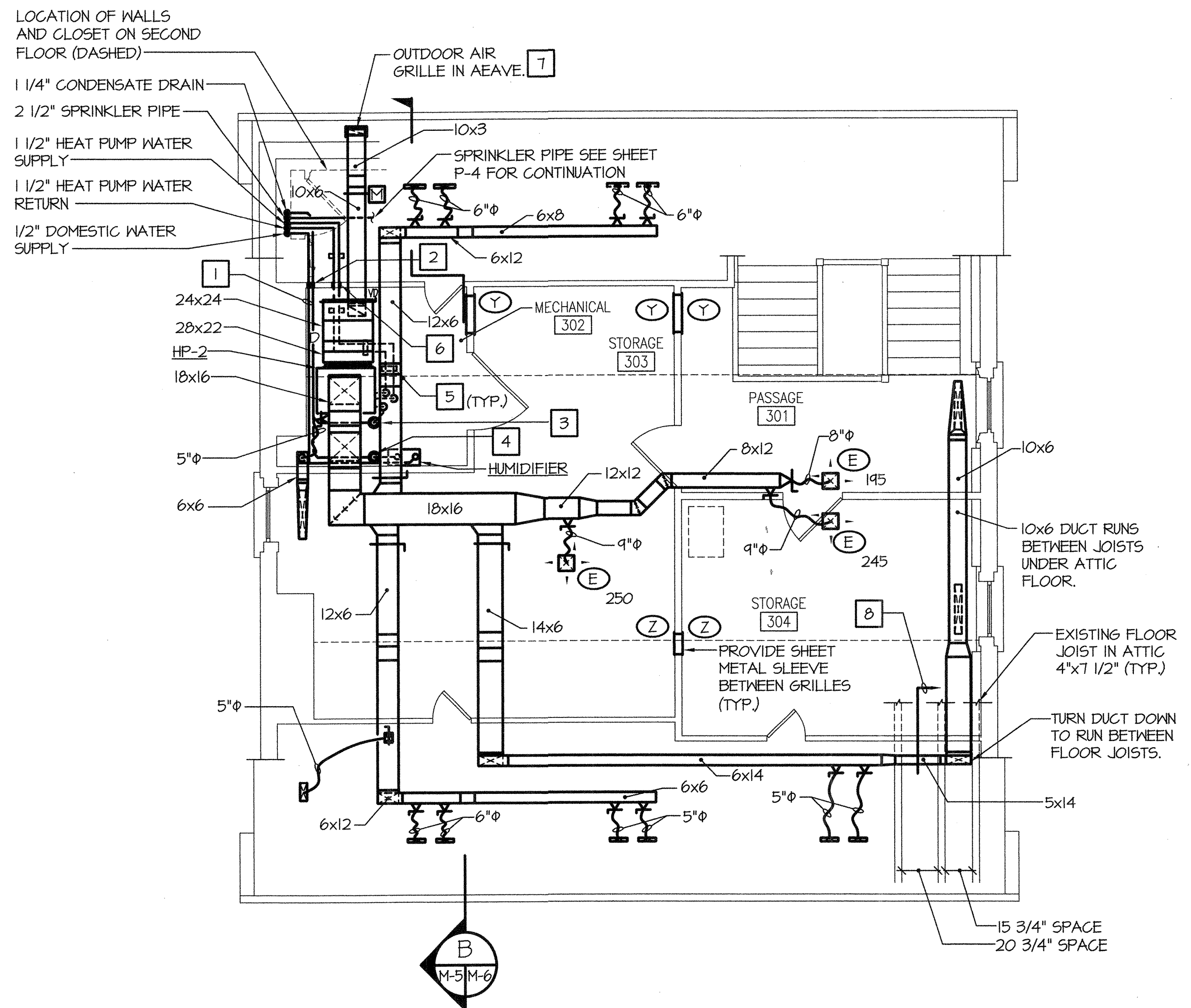
NOTES

- 1 PIPING THROUGH WALL AT 12" ABOVE FINISHED FLOOR.
- 2 PIPING THROUGH WALL AT 2" ABOVE FINISHED FLOOR.
- 3 1 1/4" ELBOW TURNED UP. 3/4" DRAIN OFF AHU-1 SHALL SPILL INTO ELBOW.
- 4 1 1/4" ELBOW TURNED UP. EXTEND 1" DRAIN FROM BOTTOM OF HUMIDIFIER TO SPILL INTO DRAIN.
- 5 HEAT PUMP WATER PIPING SUPPORT.
- 6 COORDINATE WALL PENETRATION OF HEAT PUMP WATER PIPING WITH THE PIPE SUPPORTS.
- 7 OUTDOOR AIR GRILLE EQUAL TO GREEN HECK WL 10x3 (REMOVE DAMPER). MOUNT GRILLE IN EAVE. COORDINATE WITH ROOF RAFTERS PREP AND PAINT GRILLE TO MATCH EXISTING EXTERIOR TRIM. GRILLE MUST FIT BETWEEN CORNICE BRACKETS MODIFY IF REQUIRED TO HAVE TWO GRILLE FLANKING BRACKETS.
- 8 AT THIS POINT, PROVIDE CHANGE IN DUCT CONSTRUCTION FROM GALVANIZED STEEL TO DUCT BOARD. DUCT SIZE IS INSIDE CLEAR DIMENSION. DUCT BOARD SHALL BE 1" THICK.



MECHANICAL NEW WORK PLAN - 2ND FLOOR

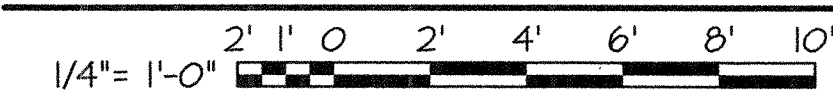
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MECHANICAL NEW WORK PLAN - 3RD FLOOR

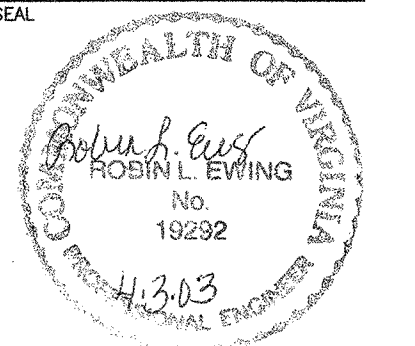
SCALE: 1/4" = 1'-0"

GRAPHIC SCALE



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WILLOUGHBY - BAYLOR HOUSE RENOVATION
NORFOLK, VIRGINIA
MECHANICAL PLANS - NEW WORK

REVISION	DATE
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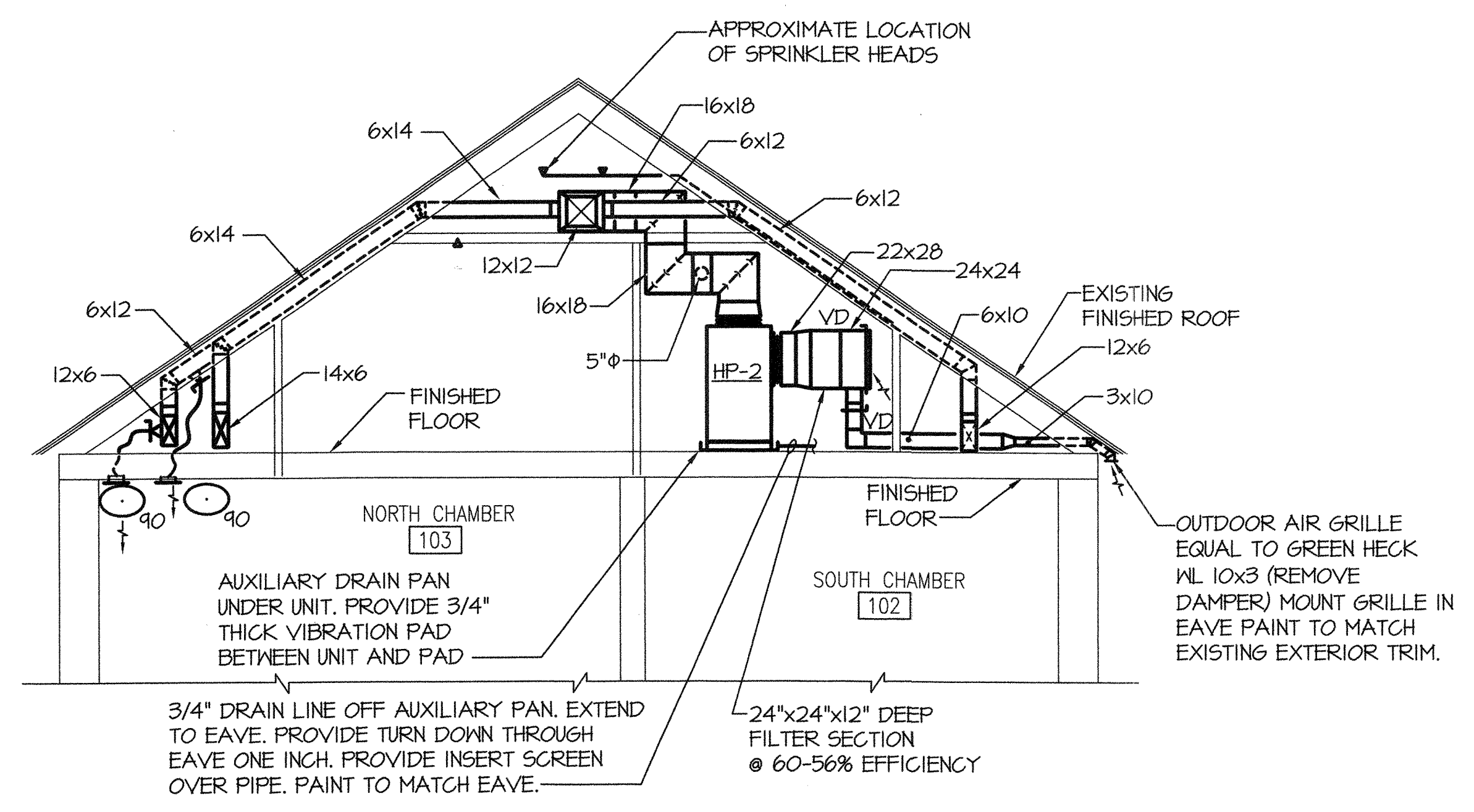
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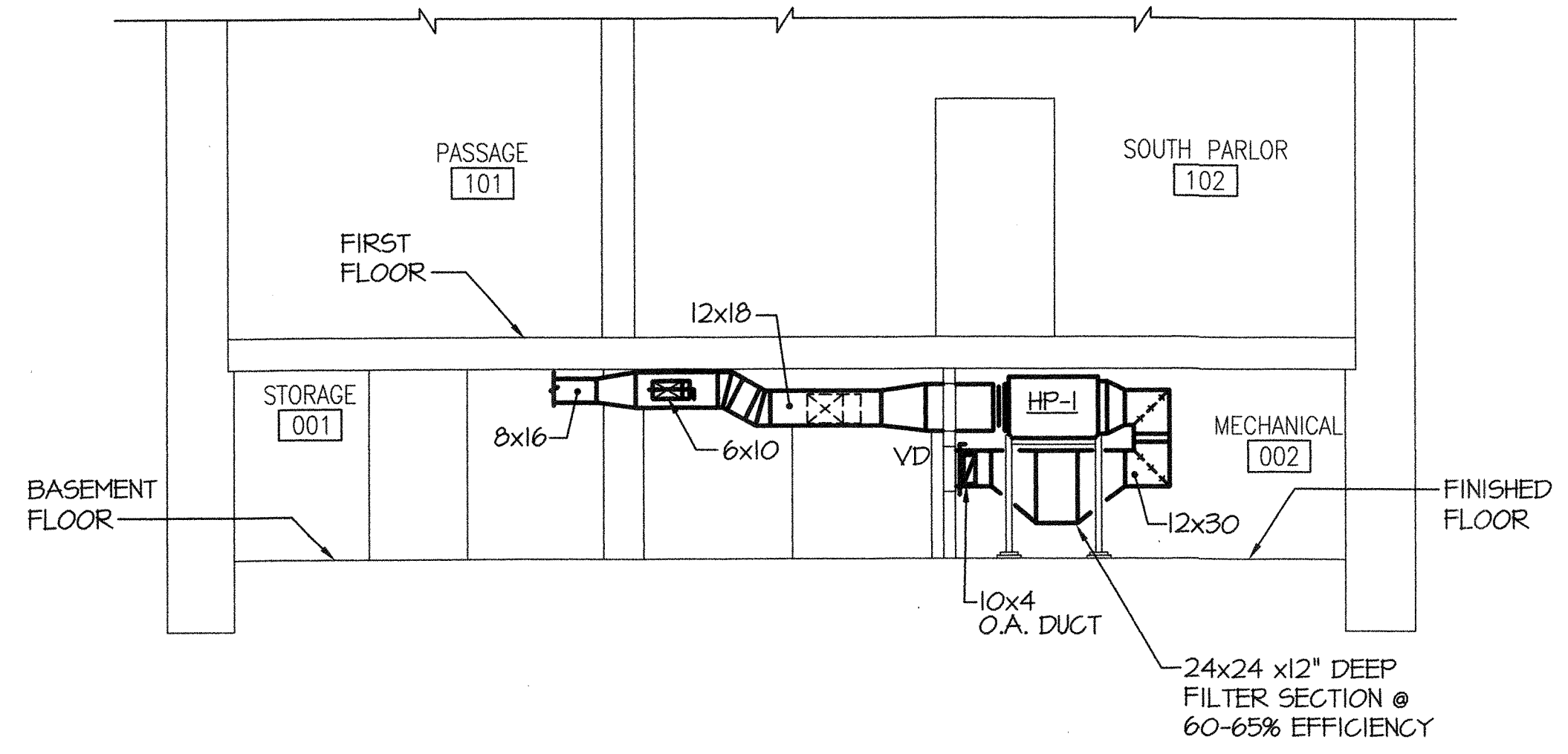
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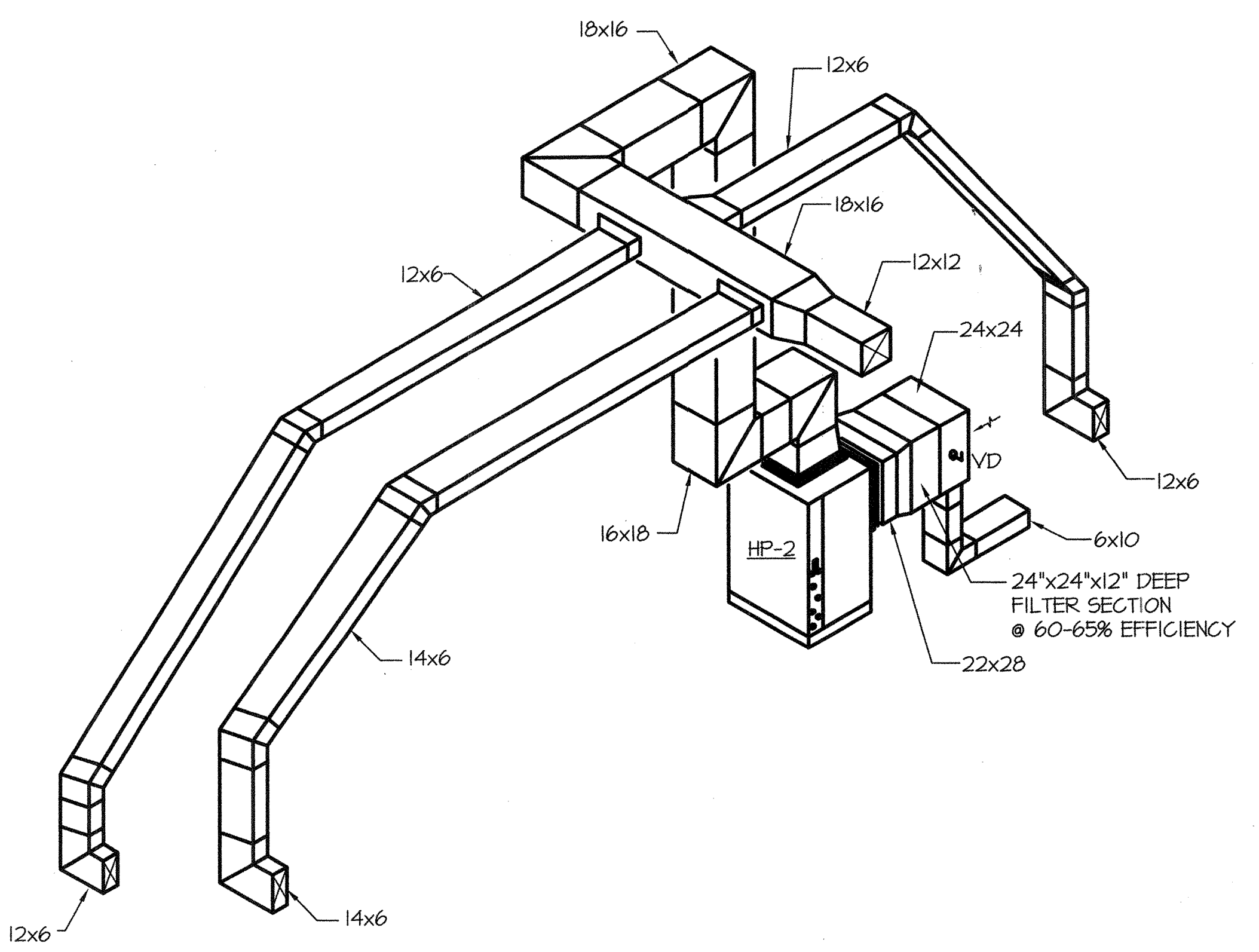
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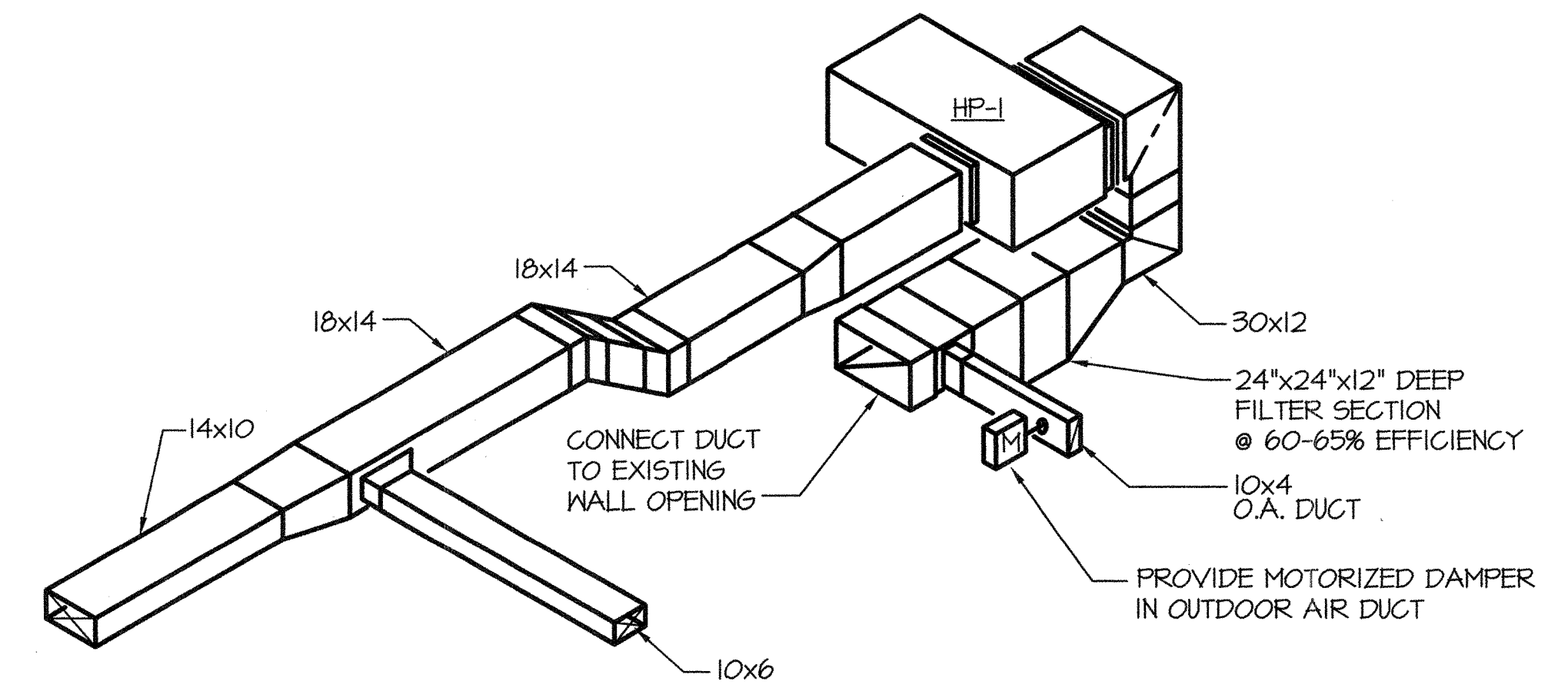
B SECTION
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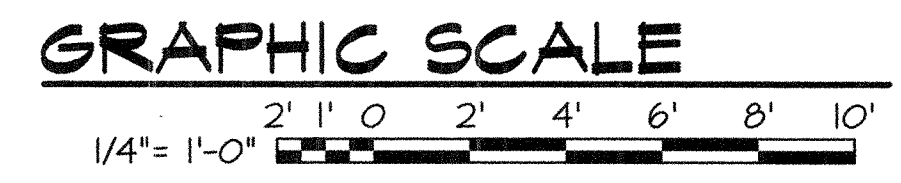
A SECTION
SCALE: 1/4" = 1'-0"



DUCTWORK ISOMETRIC
SCALE: 1/4" = 1'-0"



DUCTWORK ISOMETRIC
SCALE: 1/4" = 1'-0"



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SEAL

COMMONWEALTH OF VIRGINIA
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WILLOUGHBY - BAYLOR HOUSE RENOVATION
NORFOLK, VIRGINIA
SECTIONS

REVISION	DATE
1	4-1-03

DRAWN: JLL
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DATE: 17 OCT 2002
PROJECT NO: 02036.00

DRAWING NO
M-6

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

HEAT PUMP UNIT SCHEDULE																			
MARK	FAN DATA			COOLING DATA				HEATING DATA			ELECTRICAL DATA				GPM	P.D. FT H ₂ O	MANUFACTURER & MODEL NO.	REMARKS	
	TOTAL CFM	O.A.	ESP IN. W.G.	TOTAL MBH	SENS. MBH	ENT AIR Fdb	Fwb	EER	CAP. MBH	ENT AIR F	COP	TOTAL FLA	MCA	MFS					VOLTS/PHASE
HP-1	1600	200	1.0	45.6	36.0	73.9	62.1	18	46	63.5	4	18.3	21.5	30	208/3	10.5	9.0	ADDISON HPY 048	①②③
HP-2	1700	200	0.75	46.8	37.2	73.9	62.1	18	48.5	63.7	4	18.3	21.5	30	208/3	10.5	9.0	ADDISON VPY 048	①②③

- ① PROVIDE HEAT EXCHANGE WITHIN UNIT OF CUPRONICKEL FOR THE HEAT PUMP WATER SIDE.
- ② PROVIDE UNIT WITH STAINLESS STEEL CONDENSATE DRAIN PAN.
- ③ PROVIDE UNIT WITH MODULATING HOT-GAS REHEAT FOR HUMIDITY CONTROL AND HOT GAS BY-PASS AS A STEP OF COOLING.

GRILLE, REGISTER & DIFFUSER SCHEDULE								
MARK	APPLICATION	MANUFACTURER	MODEL NO.	NECK SIZE	MATERIAL	FINISH	VOLUME DAMPER	REMARKS
(A)	EXISTING FLOOR GRILLE TO BE REUSED	--	--	--	BRASS	NATURAL	NONE	
(B)	NEW FLOOR GRILLE	--	--	--	WOOD	MATCH FLOOR COLOR	NONE	
(C)	FLOOR DIFFUSER	TUTTLE & BAILEY	200 SERIES	6x14	ALUMINUM	SATIN ANODIZED	YES	
(D)	CEILING LINEAR	TUTTLE & BAILEY	4100F	4x28	ALUMINUM	WHITE	NO	GRILLE SHALL BE FO STYLE
(E)	CEILING SUPPLY	TUTTLE & BAILEY	M SERIES	9x9	STEEL	WHITE	YES	FRAME SF SURFACE FLAT, 3-WAY BLOW
(Y)	RETURN GRILLE	TUTTLE & BAILEY	A70D	22x22	ALUMINUM	WHITE	NO	40° DEFLECTION BLADE
(Z)	RETURN GRILLE	TUTTLE & BAILEY	A70D	12x12	ALUMINUM	WHITE	NO	40° DEFLECTION BLADE

① PROVIDE WITH SQUARED TO ROUND NECK ADAPTOR

EXPANSION TANK SCHEDULE					
MARK	SYSTEM	TANK SIZE GALLONS	ACCEPTANCE VOLUME GALLONS	INITIAL TANK PRESSURE	REMARKS
ET-1	HEAT PUMP WATER	2.0	0.9	40 PSIG	

*not to scale
reuse existing*

AIR SEPARATOR SCHEDULE					
MARK	SYSTEM	GPM	MAX WATER Δ P	STRAINER SCREEN	REMARKS
AS-1	HEAT PUMP WATER			NO	1 1/2" SIZE THREADED

EQUIPMENT SCHEDULE

DUCT HUMIDIFIER H-1 WALTON ELECTROVAP ELS 5/10

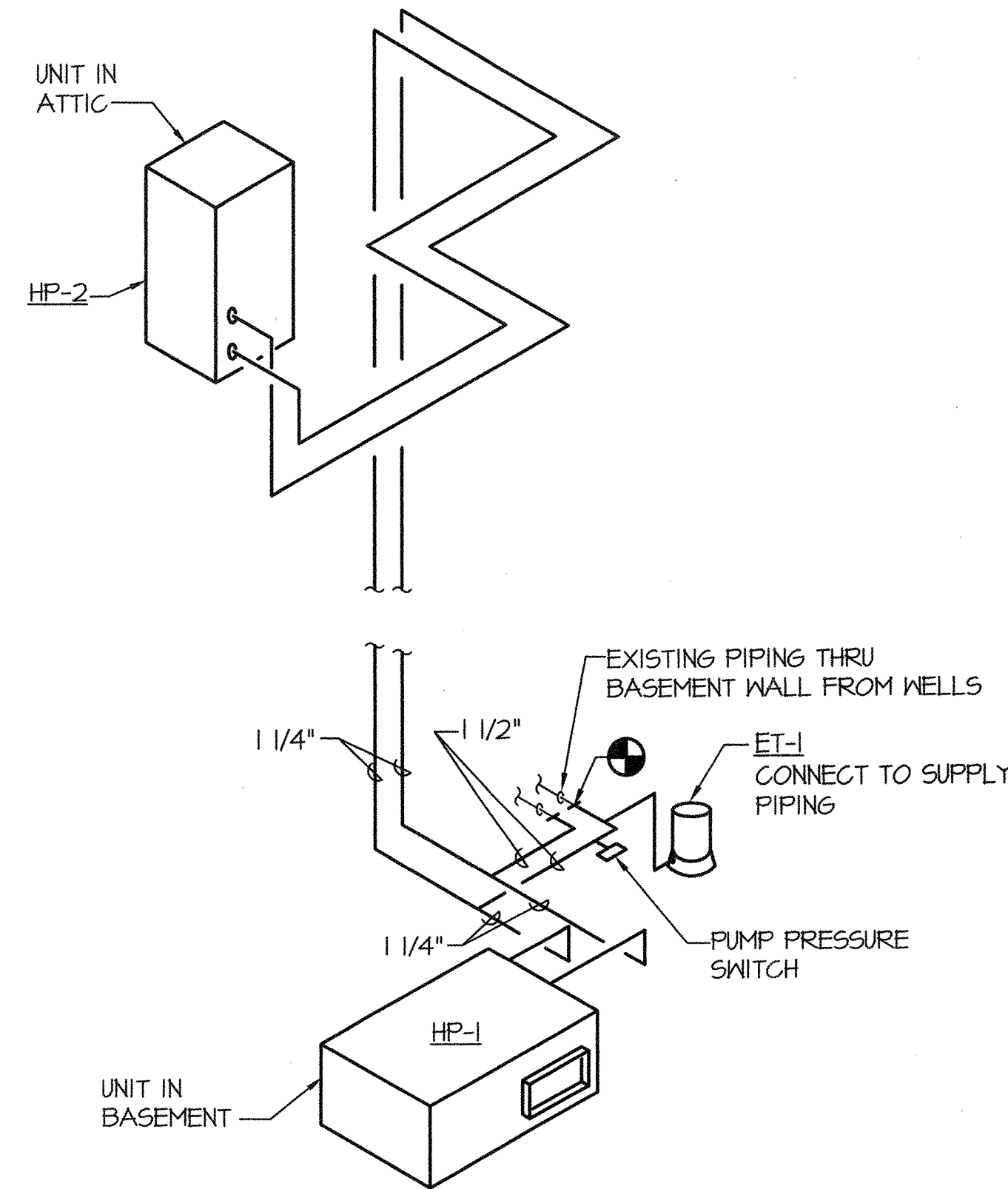
CAPACITY - 1600 CFM SUPPLY AIR, 200 CFM OUTSIDE AIR
 OUTDOOR AIR - MINIMUM CONDITIONS @ 5 DEGREE FDB AND 50% RH
 INDOOR CONDITIONS - 70 DEGREES FDB AND 50% RH
 SUPPLY AIR - APPROXIMATELY 100 DEGREES F
 HUMIDIFIER SHALL PROVIDE 2.94 LBS/HR.
 ELECTRICAL - 2.3 KW, 230 VOLTS, 1-PHASE, 10 AMPS.

PROVIDE HUMIDIFIER COMPLETE INCLUDING DUCT DISTRIBUTOR WITH CONDENSATION TUBE, AIR FLOW SWITCH, STEAM TUBE AND CONDENSATION HOSE. DISTRIBUTOR TUBE SHALL BE 11.4" LONG AND 1" DIAMETER. OPERATION SHALL BE PROPORTIONAL CONTROL AT 4-20 MA SIGNAL. PROVIDE DUCT MOUNTED HIGH LIMIT HUMIDISTAT.

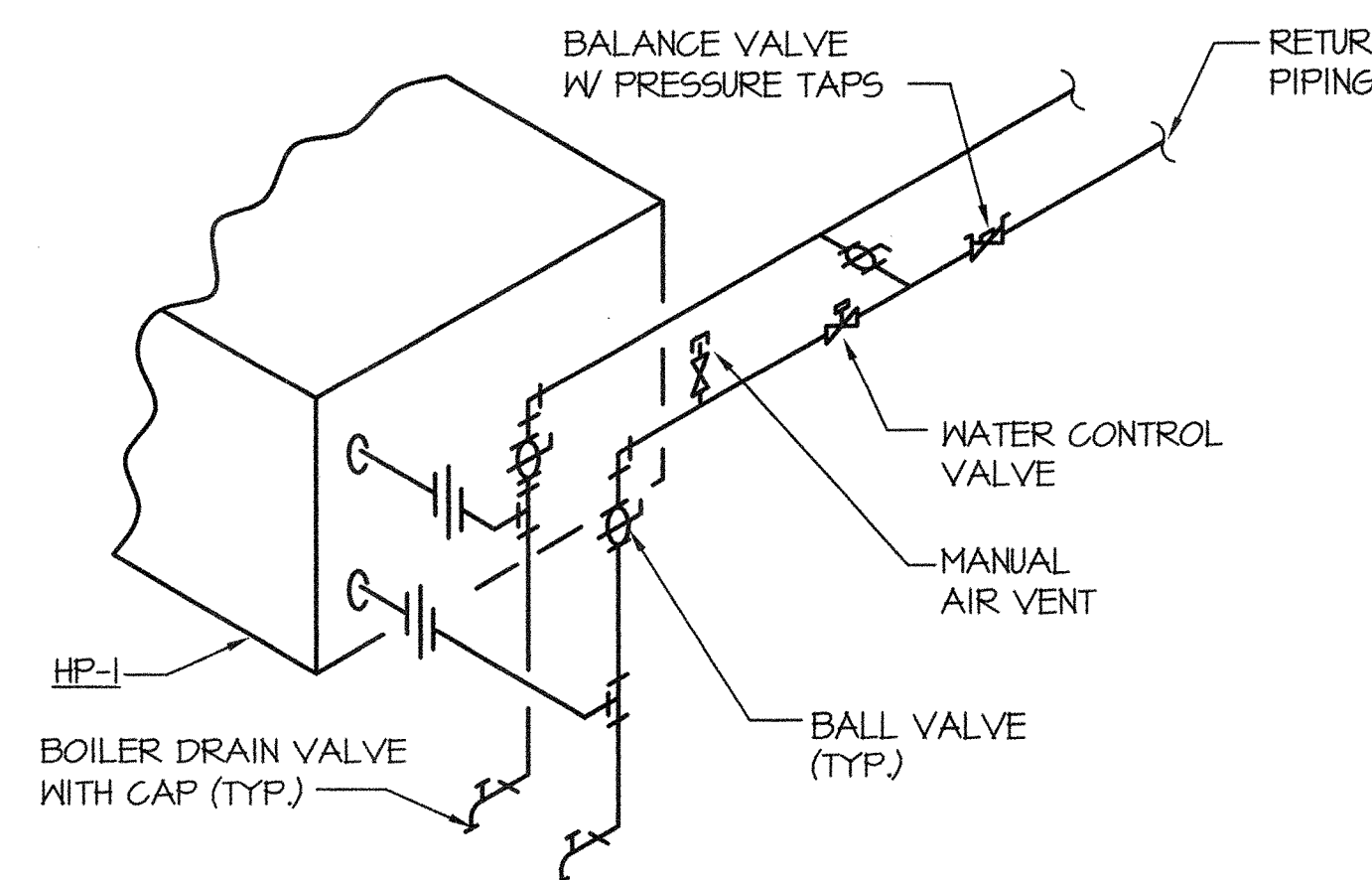
DUCT HUMIDIFIER H-2 WALTON ELECTROVAP ELS 5/10

CAPACITY - 1700 CFM SUPPLY AIR, 200 CFM OUTSIDE AIR
 OUTDOOR AIR - MINIMUM CONDITIONS @ 5 DEGREE FDB AND 50% RH
 INDOOR CONDITIONS - 70 DEGREES FDB AND 50% RH
 SUPPLY AIR - APPROXIMATELY 100 DEGREES F
 HUMIDIFIER SHALL PROVIDE 2.82 LBS/HR.
 ELECTRICAL - 2.3 KW, 230 VOLTS, 1-PHASE, 10 AMPS.

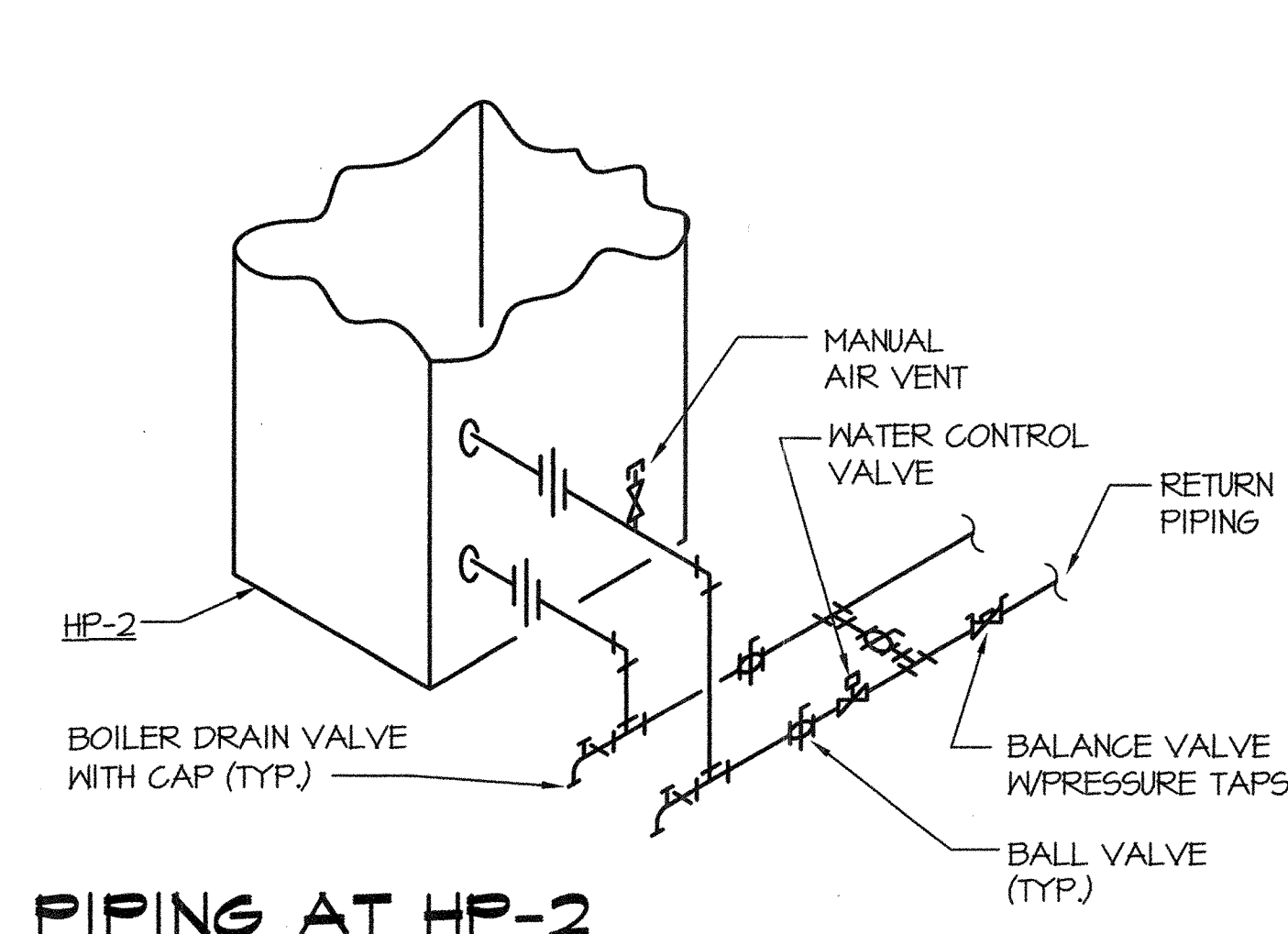
PROVIDE HUMIDIFIER COMPLETE INCLUDING DUCT DISTRIBUTOR WITH CONDENSATION TUBE, AIR FLOW SWITCH, STEAM TUBE AND CONDENSATION HOSE. DISTRIBUTOR TUBE SHALL BE 11.4" LONG AND 1" DIAMETER. OPERATION SHALL BE PROPORTIONAL CONTROL AT 4-20 MA SIGNAL. PROVIDE DUCT MOUNTED HIGH LIMIT HUMIDISTAT.



HEAT PUMP PIPING DIAGRAM
NOT TO SCALE



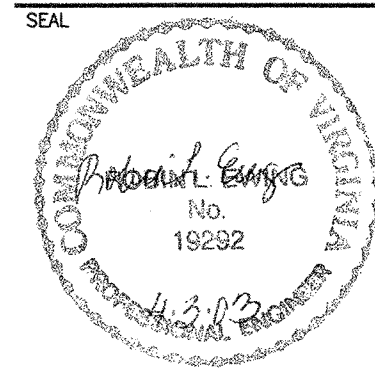
PIPING AT HP-1
NOT TO SCALE



PIPING AT HP-2
NOT TO SCALE

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WILLOUGHBY - BAYLOR HOUSE RENOVATION

NORFOLK, VIRGINIA

EQUIP. SCHEDULE, DETAILS AND SCHEDULES

REVISION DATE
4-1-03

DRAWN JLL

CHECKED RLE

DATE 17 OCT 2002

PROJECT NO 02036.00

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ANALOG/DIGITAL INPUTS			
#	POINT DESCRIPTION	PANEL DEVICE	FIELD DEVICE
1	HP DISCHARGE AIR TEMP	DUCT SENSOR	C704IB1007
4	HP DISCHARGE AIR HUMIDITY	DUCT SENSOR	HMD60-VAISALA
3	HP RETURN AIR TEMP	DUCT SENSOR	C704IB1007
4	HP SPACE TEMP	WALL MOUNT	TT750B1008
5	HP SPACE HUMIDITY	WALL MOUNT	HMA60-VAISALA
6	HP LOOP WATER IN TEMP	STRAP-ON	C703IK1017
7	HP LOOP WATER OUT TEMP	STRAP-ON	C703IK1017
8	OUTDOOR AIR DAMPER		

DIGITAL INPUTS			
#	POINT DESCRIPTION	PANEL DEVICE	FIELD DEVICE
1	HP FAN RUN STATUS		H800-VERIS
2	HP COMPRESSOR RUN STATUS		H800-VERIS
3	WELL WATER PUMP RUN STATUS		H800-VERIS
4	WELL WATER PUMP RUN STATUS		H800-VERIS
5	FILTER STATIC PRESSURE		H800-VERIS

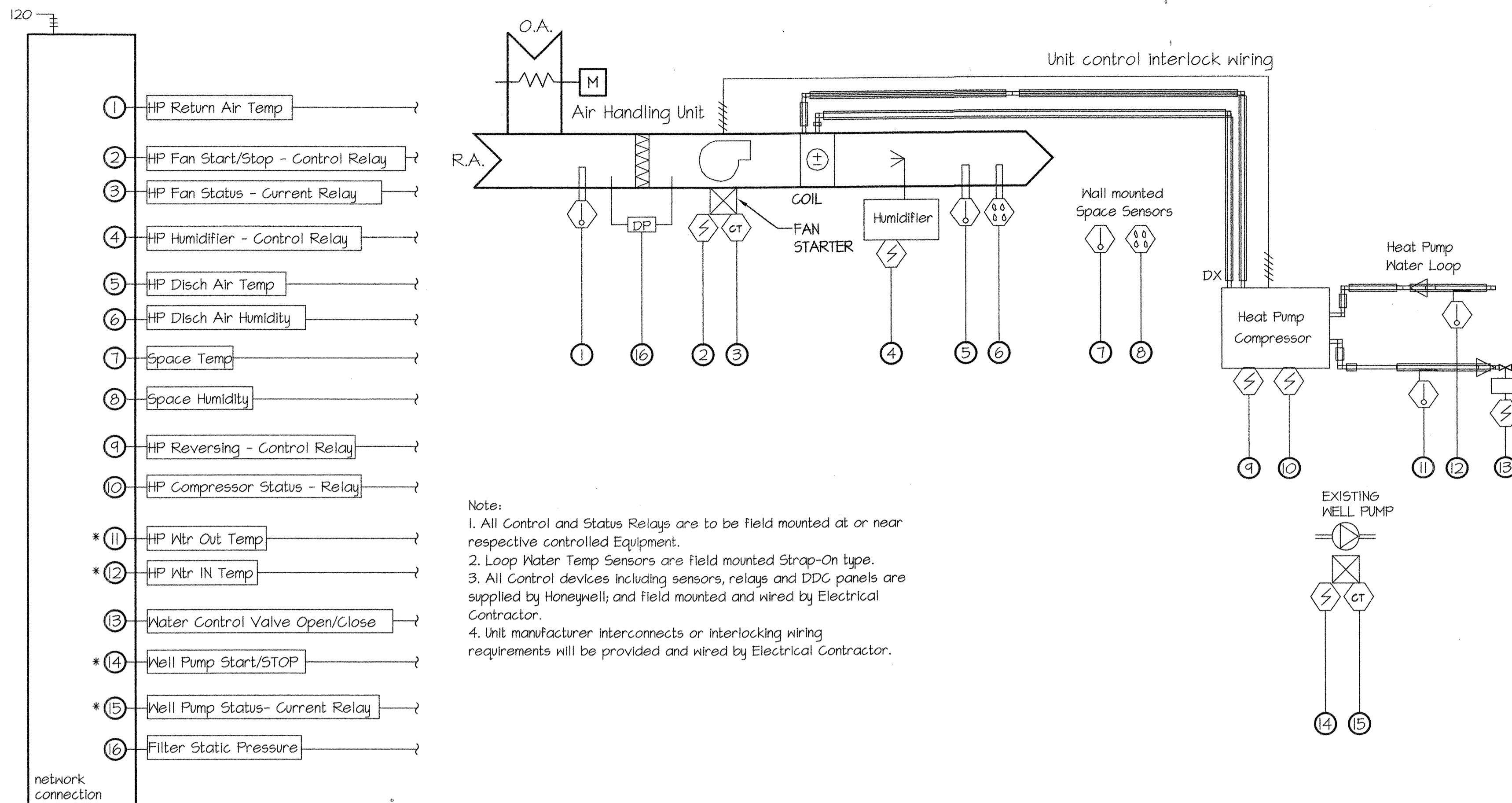
DIGITAL OUTPUTS			
#	POINT DESCRIPTION	PANEL DEVICE	FIELD DEVICE
1	HP-I FAN START/STOP		PAM RELAY
4	HP-I REVERSING VALVE CONTROL		PAM RELAY
3	HUMIDIFIER ENABLE/DISABLE		PAM RELAY
4	WELL LOOP WATER PUMP START/STOP		PAM RELAY
5	WELL WATER PUMP START/STOP	WIRED PARALLEL TO DDC2	PAM RELAY
6	WATER CONTROL VALVE OPEN/CLOSE		

SEQUENCE OF OPERATION:

EXISTING WELL PUMP SHALL BE PROVIDED WITH A HAND-OFF-AUTO MOTOR STARTER. "HAND" POSITION SHALL ALLOW PUMP TO RUN CONTINUOUS. "AUTO" POSITION SHALL ALLOW THE PUMP TO CYCLE ON A CALL OF OPERATION FROM THE HEAT PUMP THERMOSTATS THROUGH THE HONEYWELL XL DDC CONTROL PANEL. "OFF" POSITION SHALL SHUT DOWN PUMP AND CONTROL SYSTEM. PROVIDE WATER LINE PRESSURE SWITCH ON THE DISCHARGE SIDE OF THE WELL PUMP. SWITCH SHALL BE ADJUSTABLE AND SET FOR 40 PSI "ON" AND 60 PSI "OFF".

HEAT PUMP UNITS SHALL BE PROVIDED WITH THERMOSTATS AND HUMIDISTAT. UNITS SHALL ALSO BE PROVIDED WITH A HAND-OFF-AUTO MOTOR STARTER. "HAND" POSITION SHALL ALLOW THIS FAN TO RUN CONTINUOUS. "AUTO" POSITION SHALL ALLOW THE HEAT PUMP UNIT TO CYCLE BASED ON A CALL FROM HEATING, COOLING, OR HUMIDITY. PROVIDE UNIT WITH A WATER CONTROL VALVE, SLOW CLOSING TYPE AND SHALL OPERATE TO CLOSE WHEN THE HEAT PUMP IS SHUT DOWN. WHEN THERE IS A CALL FOR HEATING OR COOLING THE WATER CONTROL VALVE SHALL OPEN AND WHEN THE PROOF OF FLOW SWITCH IS ACTIVATED THE UNIT SHALL BE OPERATED. EACH UNIT SHALL BE PROVIDED WITH A HONEYWELL DIRECT DIGITAL CONTROL XL UNIT TO PROVIDE SIGNALING TO THE CENTRAL COMPUTER LOCATED IN THE CHRYSLER MUSEUM.

THE THERMOSTAT AND HUMIDISTAT SHALL BE ADJUSTED SUCH THAT THE UNIT SHALL MAINTAIN A SPACE TEMPERATURE OF 70 DEGREES F +/- 2 DEGREES AND 50 PERCENT RELATIVE HUMIDITY +/- 5 PERCENT RELATIVE HUMIDITY. CONTROL DEVICES SHALL PROVIDE CONTROL OF THE UNIT FAN, COMPRESSOR, REVERSING VALVE, HOT GAS REHEAT, HOT GAS BY-PASS AND HUMIDIFIER. TEMPERATURE AND HUMIDITY SHALL BE MAINTAINED YEAR ROUND.



Note:
 1. All Control and Status Relays are to be field mounted at or near respective controlled Equipment.
 2. Loop Water Temp Sensors are field mounted Strap-On type.
 3. All Control devices including sensors, relays and DDC panels are supplied by Honeywell; and field mounted and wired by Electrical Contractor.
 4. Unit manufacturer interconnects or interlocking wiring requirements will be provided and wired by Electrical Contractor.

DDC Enclosure
 Honeywell Direct Digital Control (DDC) Panel
 (Typical for DDC-1 & DDC-2)
 * Connection for panel in basement only

HEAT PUMP CONTROL WIRING DETAIL (TYPICAL FOR TWO UNITS- EXCEPT AS NOTED)

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WILLOUGHBY - BAYLOR HOUSE RENOVATION
 NORFOLK, VIRGINIA
 CONTROLS

REVISION _____ DATE _____
 - 4-1-03 -
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ELECTRICAL LEGEND

- LIGHTING**
- FLUORESCENT LIGHTING FIXTURE
 - SITE LIGHTING FIXTURE
 - LIGHTING FIXTURE DESIGNATION - SEE SCHEDULE, THIS SHEET.
 - TOGGLE SWITCH - 20A, 120-277V, AC ONLY, MOUNT 48" AFF, UON. SUBSCRIPT DESIGNATION INDICATES FIXTURES CONTROLLED.

- RECEPTACLES**
- DUPLEX RECEPTACLE - 20A, 125V, 2P, 3W GND TYPE, MOUNT 12" AFF.
 - DUPLEX RECEPTACLE - 20A, 125V, 2P, 3W, GND TYPE, MOUNT 48" AFF OR 6" ABOVE COUNTER TOP BEING SERVED.
 - QUADRAPLEX RECEPTACLE, 20A, 125V, 2P, 3W, GND TYPE, MOUNT 18" AFF, LETTER SUBSCRIPTS AS LISTED BELOW.
 - INDICATES WEATHERPROOF INSTALLATION, PROVIDE CAST METAL BOX WITH GASKETED COVER PLATE.
 - INDICATES GROUND FAULT INTERRUPTING RECEPTACLE

- POWER**
- JUNCTION BOX, CONNECTION AS NOTED OR REQUIRED
 - EQUIPMENT CONNECTION AS NOTED
 - PHOTOCELL
 - DISCONNECT SWITCH, 600V IN NEMA 1 ENCLOSURE U.O.N. 2P = NO. OF POLES, 60 = SWITCH RATING, 40 = FUSE RATING (NF INDICATES NON-FUSIBLE)
 - MOTOR CONTROLLER - FURNISHED BY EQUIPMENT SUPPLIER INSTALLED BY ELECTRICAL CONTRACTOR
 - DISCONNECT SWITCH FURNISHED BY EQUIPMENT SUPPLIER INSTALLED BY ELECTRICAL CONTRACTOR.
 - PANELBOARD - 240/120V, 1PH, 3W
 - BRANCH CIRCUIT HOMERUN - PANEL LA, CIRCUITS #1 AND #3. TICK MARKS INDICATE WIRE COUNT IF MORE THAN TWO #12 AND A GROUND. FLAGGED TICK MARK (F) INDICATES GROUND WIRE.
 - CABLE RUN CONCEALED
CABLE TURNED DOWN
CABLE TURNED UP
 - CONDUIT RUN IN/BELOW SLAB OR GRADE, 3/4" CONDUIT MIN
 - MOTOR RATED TOGGLE SWITCH

- DEMOLITION**
- DEMOLITION NOTE
 - EXISTING RECEPTACLE - TO REMAIN
 - DEMOLITION HATCH

- FUTURE EQUIPMENT**
- C-34 FUTURE CCTV CAMERA

ABBREVIATIONS	
A	AMP
A/C	AIR CONDITIONER
AFF/AFG	ABOVE FINISHED FLOOR/ GRADE
BBH	BASEBOARD HEATER
C	CONDUIT
CATV	CABLE TELEVISION
CLG	CEILING
CU	COPPER
FACP	FIRE ALARM CONTROL PANEL
FLA	FULL LOAD AMPS
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
IFCP	INCIPENT FIRE ALARM CONTROL PANEL
INC	INCANDESCENT
MCB	MAIN CIRCUIT BREAKER
MECH	MECHANICAL
MTD	MOUNTED
P	POLE
RC	BULL CHAIN
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VOLTS
Φ	PHASE
WP	WEATHERPROOF

- TELEPHONE/DATA**
- COMMUNICATIONS OUTLET - MOUNT 18" AFF, UON.
 - COMMUNICATIONS OUTLET - WALL MOUNT 48" AFF, UON.

- FIRE ALARM**
- FIRE ALARM CONTROL PANEL
 - FIRE ALARM AUDIO VISUAL SIGNAL DEVICE - MOUNT 80" AFF.
 - CONNECTION TO SPRINKLER FLOW SWITCH
 - CONNECTION TO SPRINKLER TAMPER SWITCH
 - IONIZATION TYPE SMOKE DETECTOR

- INTRUSION DETECTION SYSTEM**
- INFRARED MOTION DETECTOR, MOUNT BELOW CCTV CAMERA.
 - MAGNETIC DOOR SWITCH
 - CCTV CAMERA. MOUNT BELOW CROWN MOLDING
 - KEYPAD

LIGHTING FIXTURE SCHEDULE						
TYPE	MANUFACTURER	VOLTAGE	CATALOG NUMBER	LAMP	MOUNTING	REMARKS
A	LIGHTWAY	120	TUC 26	2-30W	WALL	①
B	LIGHTWAY	120	CLPG-14-1-3P13-3-W2-W5A-10	(3)-13WMA9	SURFACE	
C	LIGHTWAY	120	CLPG-11-1-2P13-3-W2-W5A-10	(2)-13WMA9	SURFACE	
D	HALO - TRACK	120	HALO TRACK	--	SURFACE	②
E	HALO - HEADS	120	HALO	--	--	④
F	LITHONIA	120	C5 2 32 120 GEB	32W T8	SURFACE	
G	RED DOT	120	L-80	150W/PAR38	SURFACE	③

- LIGHTING FIXTURE SCHEDULE NOTES:**
- ① MOUNT CENTERED OVER SINK 6" ABOVE MIRROR.
 - ② PROVIDE ALL ACCESSORIES FOR MOUNTING AND CABLE TERMINATION. TRACK AND ALL ACCESSORIES SHALL BE WHITE.
 - ③ MOUNT L-80 ON WATERPROOF BOX WITH 3-HUB COVER. PHOTOCELL CONTROLLED.

QTY	MANUFACTURER	CATALOG #
15	HALO	L1766
15	HALO	L1713
15	HALO	L2710
15	HALO	L2711
15	HALO	L2740
15	HALO	L2756 PX
4	HALO	L256

PRIOR TO PURCHASING, VERIFY FIXTURE TYPE WITH QUANTITY AND OWNER.

PANEL 'HA' SCHEDULE													
225A, M.C.B., 120/240 V, 3 PHASE, 4 WIRE, FLUSH MOUNT													
LOAD SERVED	LOAD (AMPS)			BKR TRIP	WIRE SIZE	CKT NO.	CKT NO.	WIRE SIZE	BKR TRIP	LOAD (AMPS)			LOAD SERVED
	A	B	C							A	B	C	
TRACK LTS - S. PARLOR	16			20	12	1							BASEMENT HEAT PUMP
TRACK LTS - S. PARLOR		16		20	12	3							
TRACK LTS - N. PARLOR			16	20	12	5							
TRACK LTS - N. PARLOR	16			20	12	7							3RD FLOOR HEAT PUMP
TRACK LTS - 1ST FLR		16		20	12	9							
TRACK LTS - 1ST FLR			16	20	12	11							
TRACK LTS - 2ND FLR	16			20	12	13							H-1
TRACK LTS - 2ND FLR		16		20	12	15				10			
TRACK LTS - N. PARLOR			16	20	12	17						10	H-2
TRACK LTS - N. PARLOR	16			20	12	19				10			
TRACK LTS - E. PARLOR		16		20	12	21							
TRACK LTS - 2ND FLR			16	20	12	23							
WATER HEATER	16			20	10	25				5			SECURITY/FA PANEL
		16								5			SECURITY EQUIPMENT
FUTURE WHEELCHAIR LIFT			7.6	20	12	29						5	RECEPT-ENTRY/SECURITY
SPARE ①	0			20	--	31				16			LIG & EXHAUST - LOBBY
SPARE ①		0		20	--	33					8		SP-1
SPARE ①			0	20	--	35					8		SP-2
SPARE ①		0		20	--	37					8		SP-3
SPARE ①		0		20	--	39							KITCHEN BUILDING
SPARE ①			0	20	--	41				2	100		
TOTAL	0	0	0							0	0	0	TOTAL

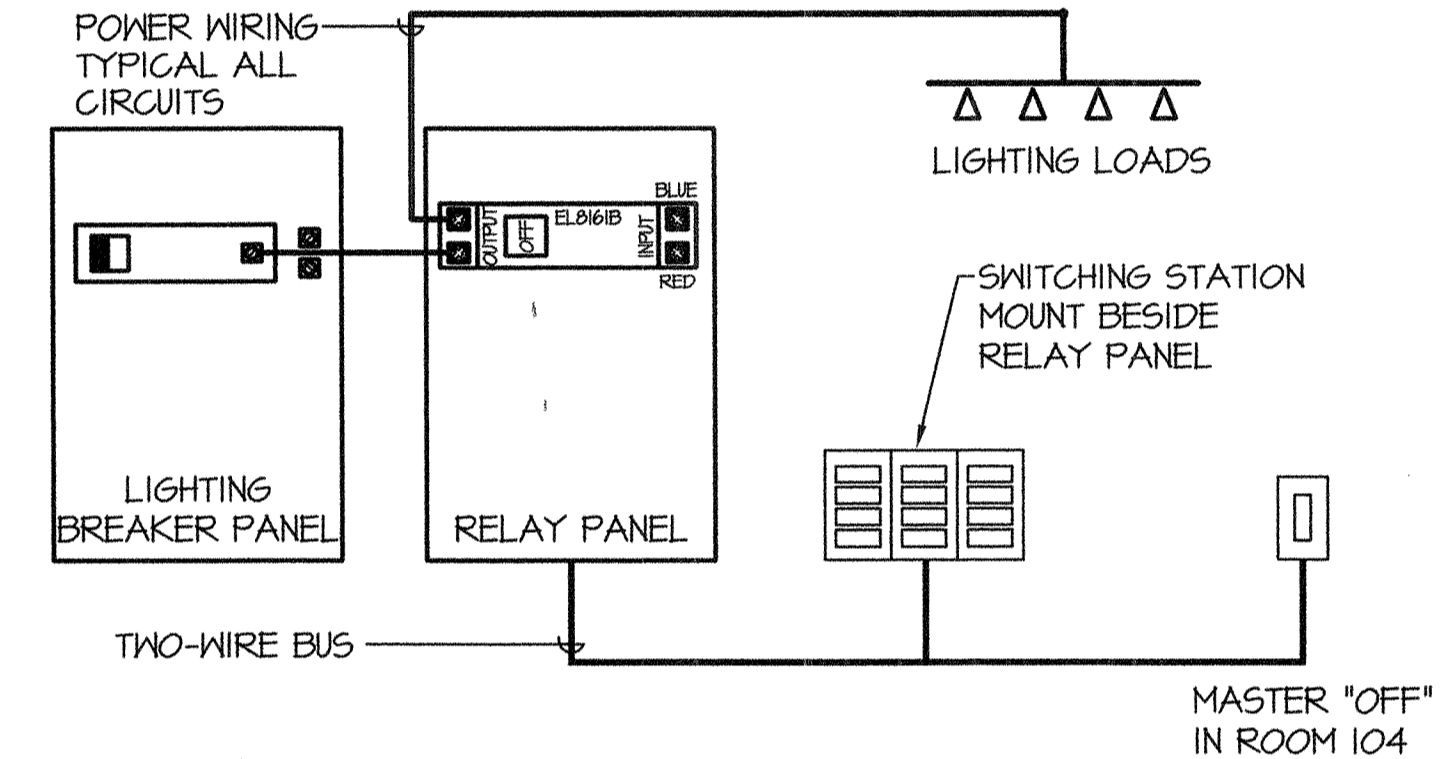
① FOR EACH SPARE DESIGNATED, CONNECT EXISTING BRANCH CIRCUIT EXTENSIONS.

GENERAL ELECTRICAL DEMOLITION NOTES:

- REMOVE EXISTING ELECTRICAL SYSTEM; 240/120, 1 PHASE, 3 WIRE. EXISTING BRANCH CIRCUITS WILL REMAIN AND BE EXTENDED TO THE NEW PANEL LOCATION.
- WHERE EXISTING EQUIPMENT IS INDICATED FOR REMOVAL, WIRING SHALL BE REMOVED BACK TO THE NEAREST REMAINING ACTIVE OUTLET OR PANELBOARD. WHERE WIRING IS RUN CONCEALED, THE WIRING MAY BE ABANDONED IN PLACE.
- WHERE EQUIPMENT AND DEVICES HAVE BEEN REMOVED FROM EXISTING SURFACES, PATCH, PAINT, AND FINISH WALLS, FLOORS, AND CEILINGS TO MATCH EXISTING ADJACENT SURFACES. THE CONTRACTOR SHALL REPAIR HOLES LEFT BY MOUNTING HARDWARE, CONDUIT, OR EQUIPMENT.
- CONTRACTOR SHALL VERIFY THAT ALL EXISTING CONCEALED BRANCH CIRCUITS DESIGNATED TO BE REUSED ARE REUSABLE. WHERE PORTIONS OF BRANCH CIRCUITS ARE NOT REUSABLE, REMOVE FAULTY WIRING. IF WIRING IS NOT REUSABLE, PROVIDE NEW WIRING AND REROUTE AS REQUIRED. EXISTING WIRING IS TYPE 'NM' CABLE.
- WHERE DEMOLITION WORK HAS LEFT LIGHTING FIXTURES, WIRING DEVICES AND OTHER EQUIPMENT WITHOUT ELECTRICAL SERVICE THE CONTRACTOR SHALL PROVIDE THE NECESSARY MATERIAL AND LABOR TO INSURE CIRCUIT CONTINUITY IS MAINTAINED.
- THE CONTRACTOR SHALL INSURE THAT THE COMBINED LOADS OF NEW AND EXISTING EQUIPMENT WILL NOT EXCEED THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (I.E. ARTICLE 210-23). THE CONTRACTOR SHALL ALSO INSURE THAT THE LOADS ARE BALANCED BETWEEN PANELBOARD PHASES, WITHIN 10% OF EACH OTHER.

GENERAL ELECTRICAL NOTES:

- CONTRACTOR SHALL PROVIDE LABELS ON ALL PANELS, DISCONNECTS, STARTERS, AND EQUIPMENT.
- ROUTE ALL TRACK LIGHTING CIRCUITS THRU LIGHTING RELAY CABINET, SEE LIGHTING RELAY CABINET SCHEDULE THIS SHEET.



LOW VOLTAGE LIGHTING CONTROL WIRING DIAGRAM
NOT TO SCALE

LIGHTING RELAY CABINET SCHEDULE

CIRCUIT CONTROLLED	WIRE SIZE	MODULE SIZE	
C-1	12	20A RELAY MODULE	1
C-3	12	20A RELAY MODULE	3
C-5	12	20A RELAY MODULE	5
C-7	12	20A RELAY MODULE	7
C-9	12	20A RELAY MODULE	9
C-11	12	20A RELAY MODULE	11
C-13	12	20A RELAY MODULE	13
C-15	12	20A RELAY MODULE	15
C-17	12	20A RELAY MODULE	17
C-19	12	20A RELAY MODULE	19
C-21	12	20A RELAY MODULE	21
C-23	12	20A RELAY MODULE	23

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WILLOUGHBY - BAYLOR HOUSE RENOVATION
NORFOLK, VIRGINIA
LEGEND, SCHEDULES & NOTES

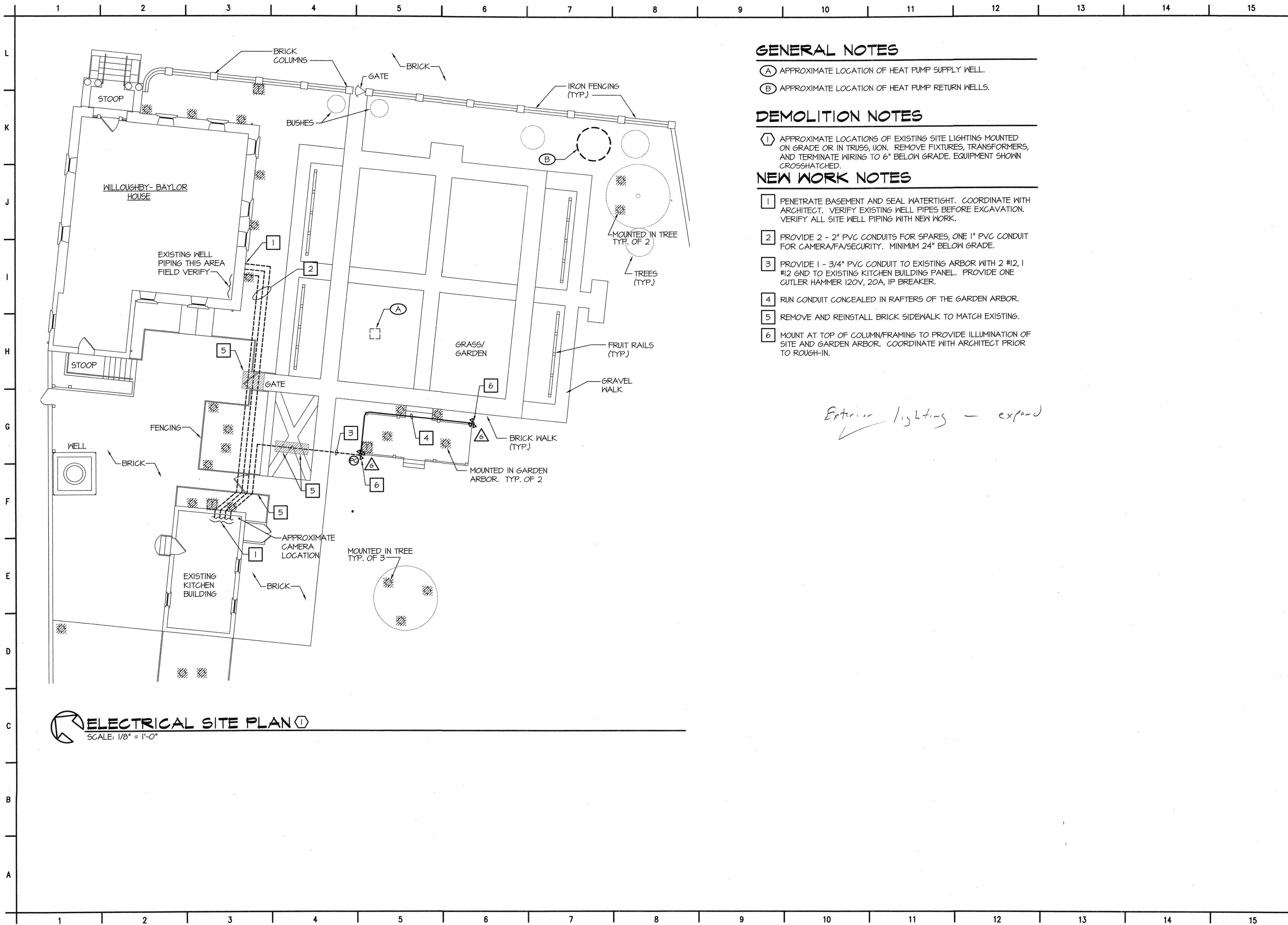
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DRAWING NO: E-1

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GENERAL NOTES

- (A) APPROXIMATE LOCATION OF HEAT PUMP SUPPLY WELL.
- (B) APPROXIMATE LOCATION OF HEAT PUMP RETURN WELLS.

DEMOLITION NOTES

- (1) APPROXIMATE LOCATIONS OF EXISTING SITE LIGHTING MOUNTED ON GRADE OR IN TRUSS, UON. REMOVE FIXTURES, TRANSFORMERS, AND TERMINATE WIRING TO 6" BELOW GRADE. EQUIPMENT SHOWN CROSSHATCHED.

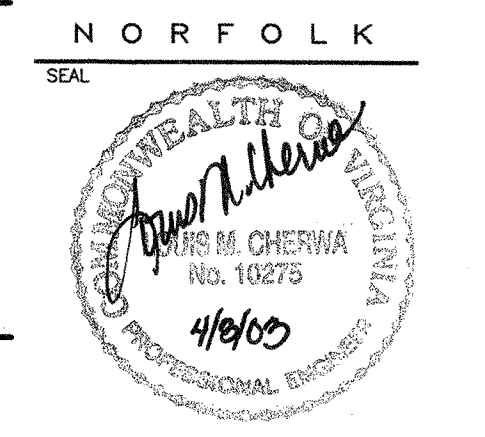
NEW WORK NOTES

- 1 PENETRATE BASEMENT AND SEAL WATERTIGHT. COORDINATE WITH ARCHITECT. VERIFY EXISTING WELL PIPES BEFORE EXCAVATION. VERIFY ALL SITE WELL PIPING WITH NEW WORK.
- 2 PROVIDE 2 - 2" PVC CONDUITS FOR SPARES, ONE 1" PVC CONDUIT FOR CAMERA/FA/SECURITY. MINIMUM 24" BELOW GRADE.
- 3 PROVIDE 1 - 3/4" PVC CONDUIT TO EXISTING ARBOR WITH 2 #12, 1 #12 GND TO EXISTING KITCHEN BUILDING PANEL. PROVIDE ONE CUTLER HAMMER 120V, 20A, IP BREAKER.
- 4 RUN CONDUIT CONCEALED IN RAFTERS OF THE GARDEN ARBOR.
- 5 REMOVE AND REINSTALL BRICK SIDEWALK TO MATCH EXISTING.
- 6 MOUNT AT TOP OF COLUMN/FRAMING TO PROVIDE ILLUMINATION OF SITE AND GARDEN ARBOR. COORDINATE WITH ARCHITECT PRIOR TO ROUGH-IN.

Exterior lighting - expand

ELECTRICAL SITE PLAN
SCALE: 1/8" = 1'-0"

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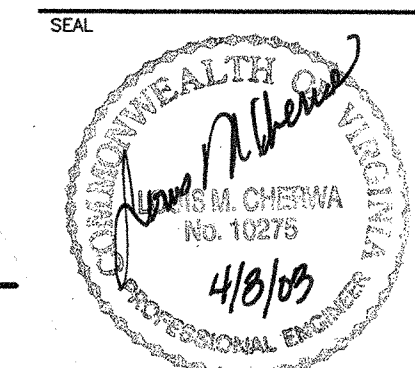
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ENGINEERING, P.C.
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420 LYNNHAVEN PARKWAY, VIRGINIA BEACH, VA 23462
PHONE NO. (757) 340-4871 FAX NO. (757) 465-8871
E-MAIL: Address: ceeng@comcast.net

WILLOUGHBY - BAYLOR HOUSE RENOVATION
 NORFOLK, VIRGINIA
 PARTIAL SITE PLAN

REVISION	DATE
1	4-1-03

DRAWN: BAB
CHECKED: RLE
DATE: 17 OCT 2002
PROJECT NO: 02036.00

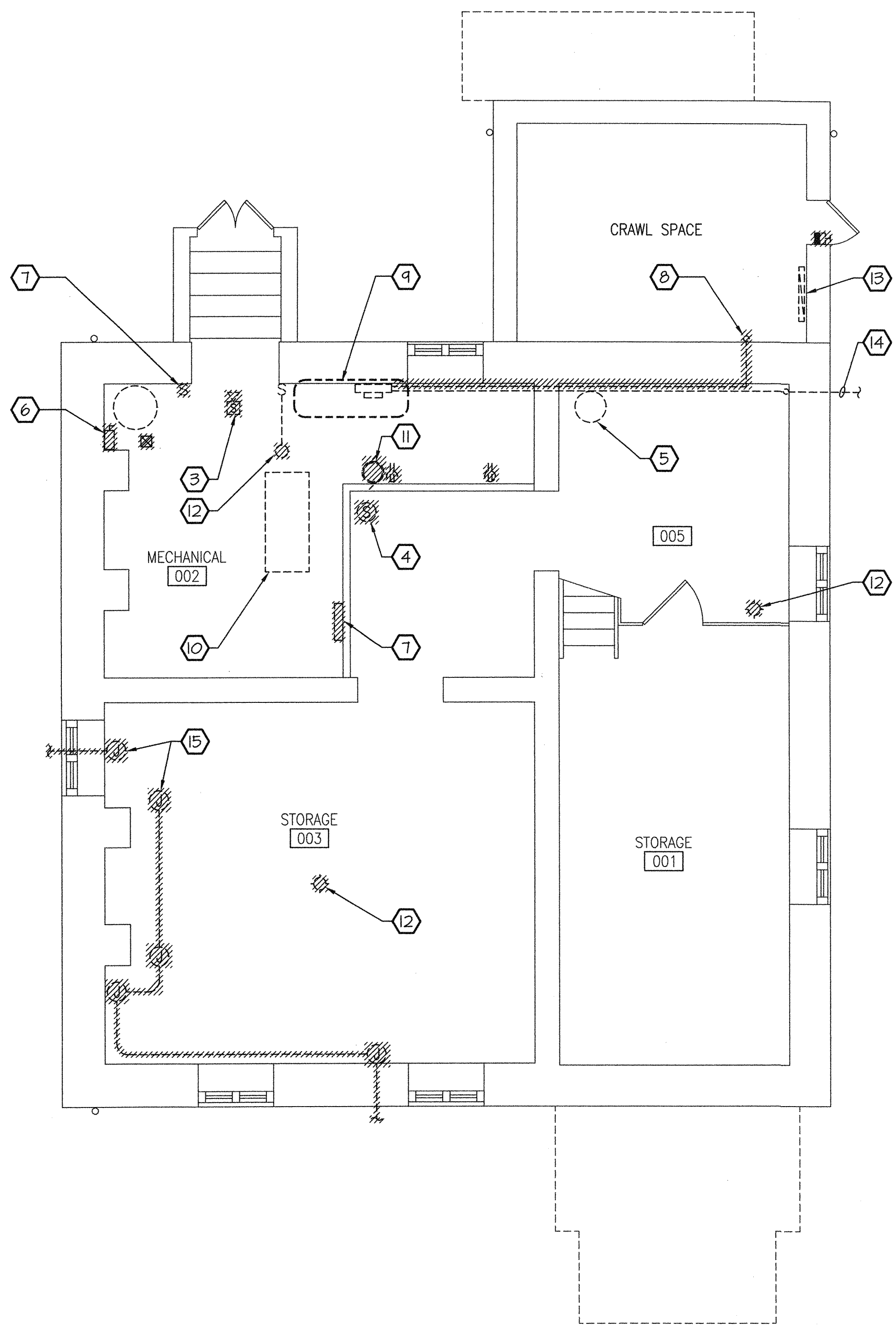
DRAWING NO
E-2
HANBURY EVANS WRIGHT VLATTAS + CO
120 ATLANTIC STREET NORFOLK, VIRGINIA 23510
757-321-9600 FAX: 757-321-9601
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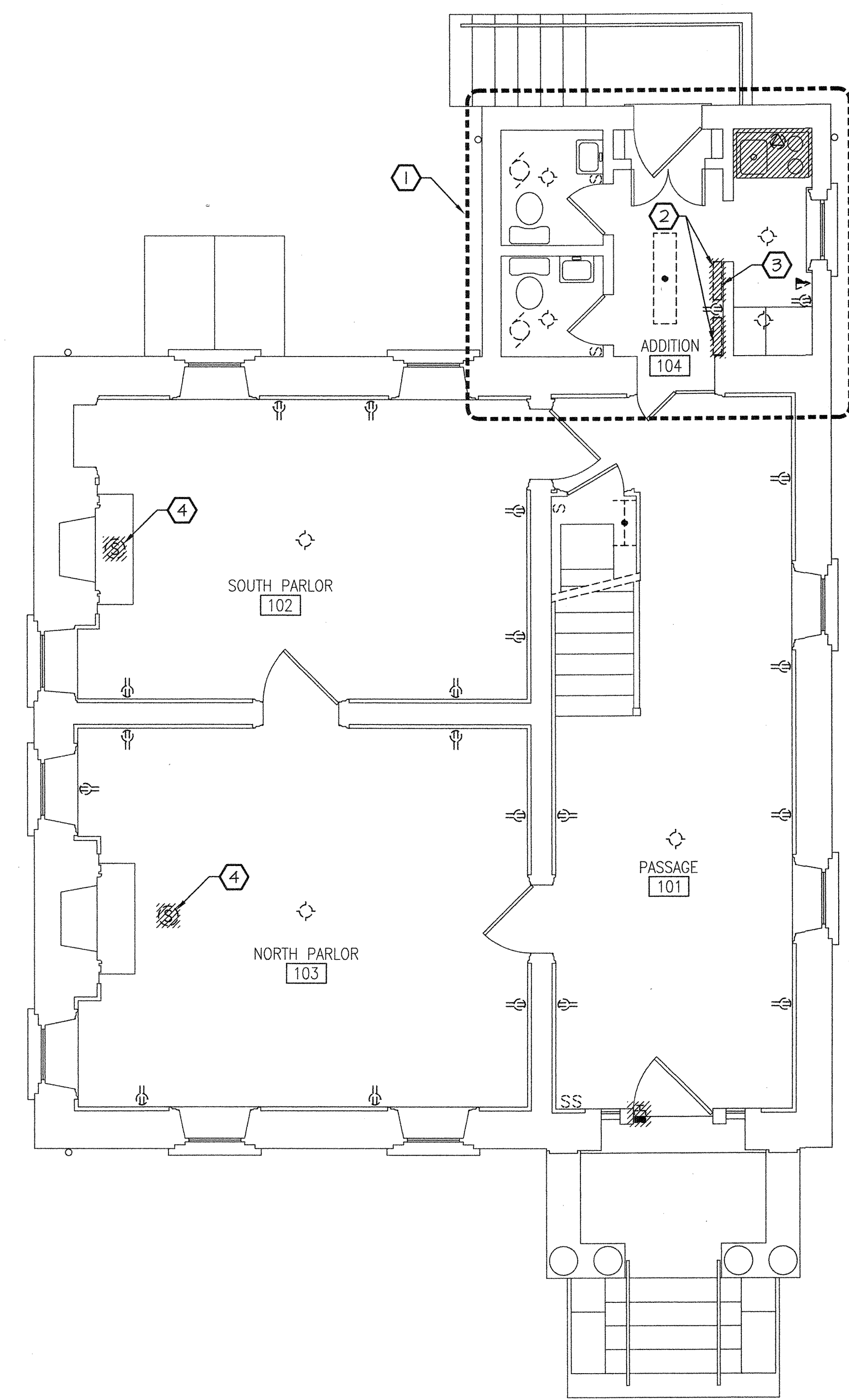
DEMOLITION NOTES (THIS SHEET ONLY)

- ① THIS SECTION TO BE RENOVATED. REMOVE ALL DEVICES, FIXTURES, AND ASSOCIATED WIRING TO PANEL IN ITS ENTIRETY.
- ② REMOVE ELECTRICAL PANEL, BRANCH CIRCUIT WIRING OTHER THAN THIS SECTION, SHALL BE EXTENDED TO NEW PANEL. FOR LOCATION SEE DRAWINGS E-4.
- ③ REMOVE SECURITY EQUIPMENT, PANEL AND ASSOCIATED DEVICES IN ITS ENTIRETY.
- ④ REMOVE EXISTING SMOKE DETECTORS.
- ⑤ DISCONNECT WATER HEATER AND REMOVE ALL ASSOCIATED WIRING IN ITS ENTIRETY TO PANEL.
- ⑥ REMOVE DISCONNECT, STARTER, AND ASSOCIATED WIRING IN ITS ENTIRETY TO PANEL. CIRCUIT TO SUBMERSIBLE PUMP TO REMAIN.
- ⑦ DISCONNECT AND REMOVE BOILER RELAY CABINET, SWITCHES, AND ALL ASSOCIATED WIRING IN ITS ENTIRETY TO PANEL.
- ⑧ DISCONNECT AND REMOVE FEEDER CONDUIT AND WIRING FROM TROUGH TO THE 1ST FLOOR PANEL IN ITS ENTIRETY.
- ⑨ SEE POWER RISER DEMOLITION ON SHEET E-3.
- ⑩ DISCONNECT HVAC EQUIPMENT. REMOVE EXISTING WIRING IN ITS ENTIRETY TO PANEL.
- ⑪ REMOVE EXISTING SUMP PUMP
- ⑫ EXISTING CIRCUITRY TO REMAIN. REMOVE INCANDESCENT LIGHT FIXTURE.
- ⑬ EXISTING TELEPHONE SERVICE TO REMAIN.
- ⑭ DOMINION POWER SERVICE ENTRANCE FEEDER.
- ⑮ REMOVE EXISTING FIXTURES AND CIRCUITRY IN ITS ENTIRETY.

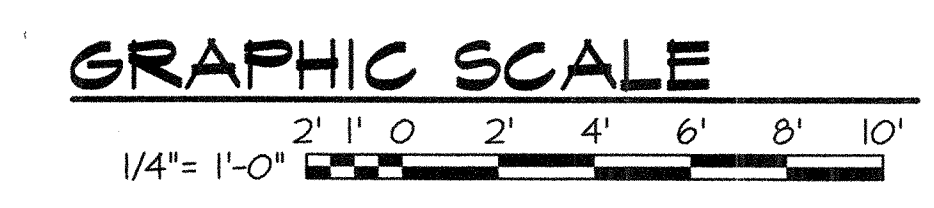
NOTE: EXISTING ELECTRICAL FOR KITCHEN BUILDING TO REMAIN



BASEMENT ELECTRICAL PLAN - DEMOLITION
SCALE: 1/4" = 1'-0"



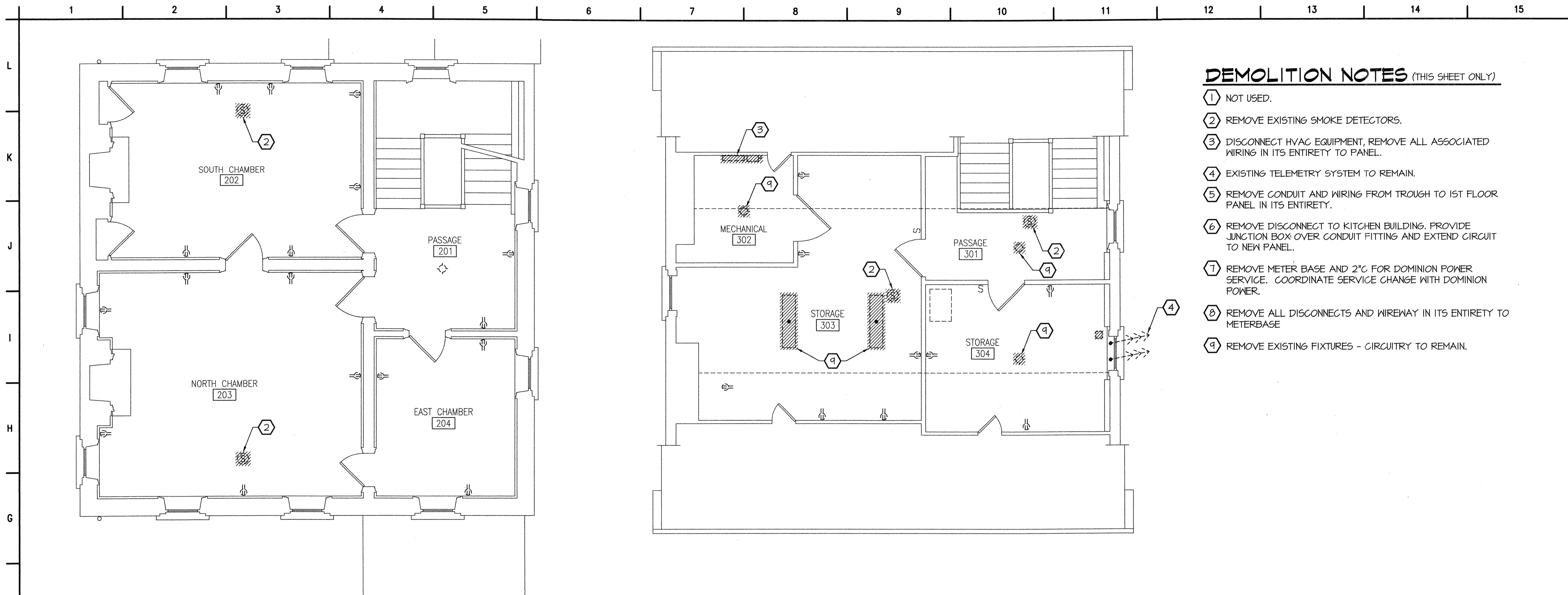
1ST FLOOR ELECTRICAL PLAN - DEMOLITION
SCALE: 1/4" = 1'-0"



WILLOUGHBY - BAYLOR HOUSE RENOVATION
 NORFOLK, VIRGINIA
BASEMENT & 1ST FLOOR PLANS - DEMOLITION

REVISION	DATE
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DRAWN: BAB
 CHECKED: LMC
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 PROJECT NO: 02036.00

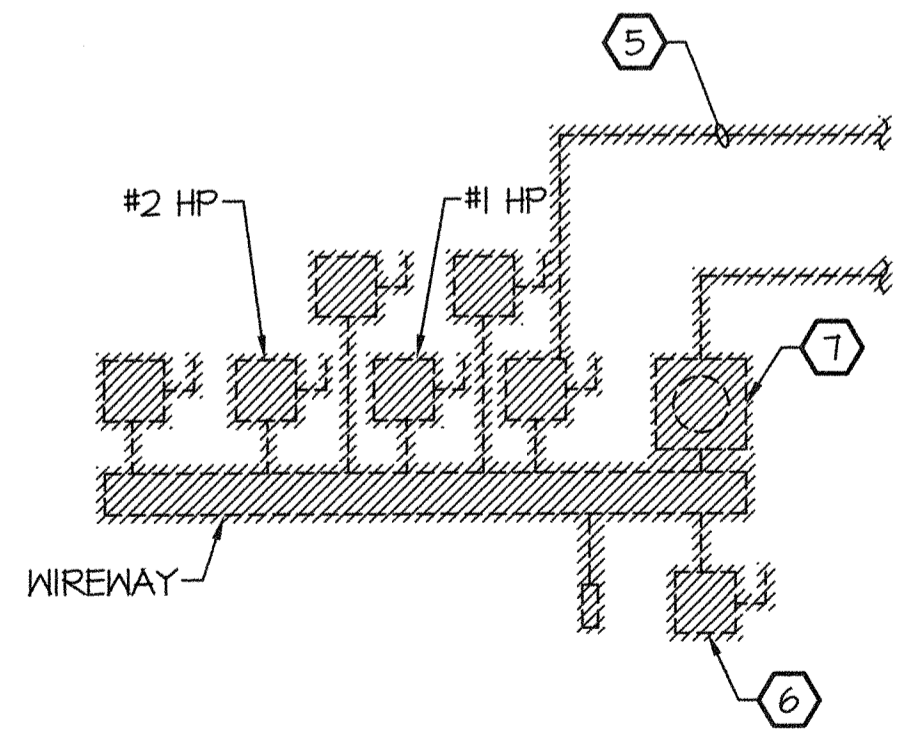


2ND FLOOR ELECTRICAL PLAN - DEMOLITION
SCALE: 1/4" = 1'-0"

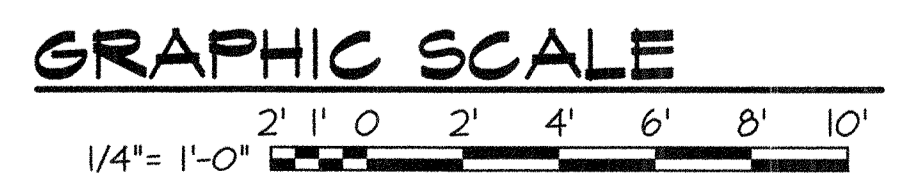
3RD FLOOR ELECTRICAL PLAN - DEMOLITION
SCALE: 1/4" = 1'-0"

DEMOLITION NOTES (THIS SHEET ONLY)

- ① NOT USED.
- ② REMOVE EXISTING SMOKE DETECTORS.
- ③ DISCONNECT HVAC EQUIPMENT, REMOVE ALL ASSOCIATED WIRING IN ITS ENTIRETY TO PANEL.
- ④ EXISTING TELEMETRY SYSTEM TO REMAIN.
- ⑤ REMOVE CONDUIT AND WIRING FROM TROUGH TO 1ST FLOOR PANEL IN ITS ENTIRETY.
- ⑥ REMOVE DISCONNECT TO KITCHEN BUILDING. PROVIDE JUNCTION BOX OVER CONDUIT FITTING AND EXTEND CIRCUIT TO NEW PANEL.
- ⑦ REMOVE METER BASE AND 2" FOR DOMINION POWER SERVICE. COORDINATE SERVICE CHANGE WITH DOMINION POWER.
- ⑧ REMOVE ALL DISCONNECTS AND WIREWAY IN ITS ENTIRETY TO METERBASE
- ⑨ REMOVE EXISTING FIXTURES - CIRCUITRY TO REMAIN.

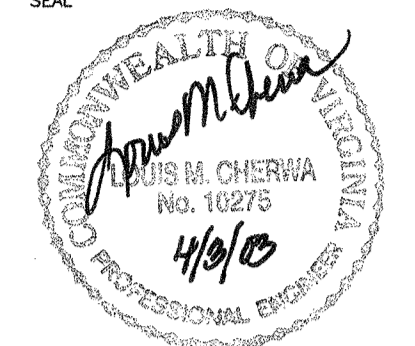


POWER RISER DIAGRAM - DEMOLITION
NOT TO SCALE



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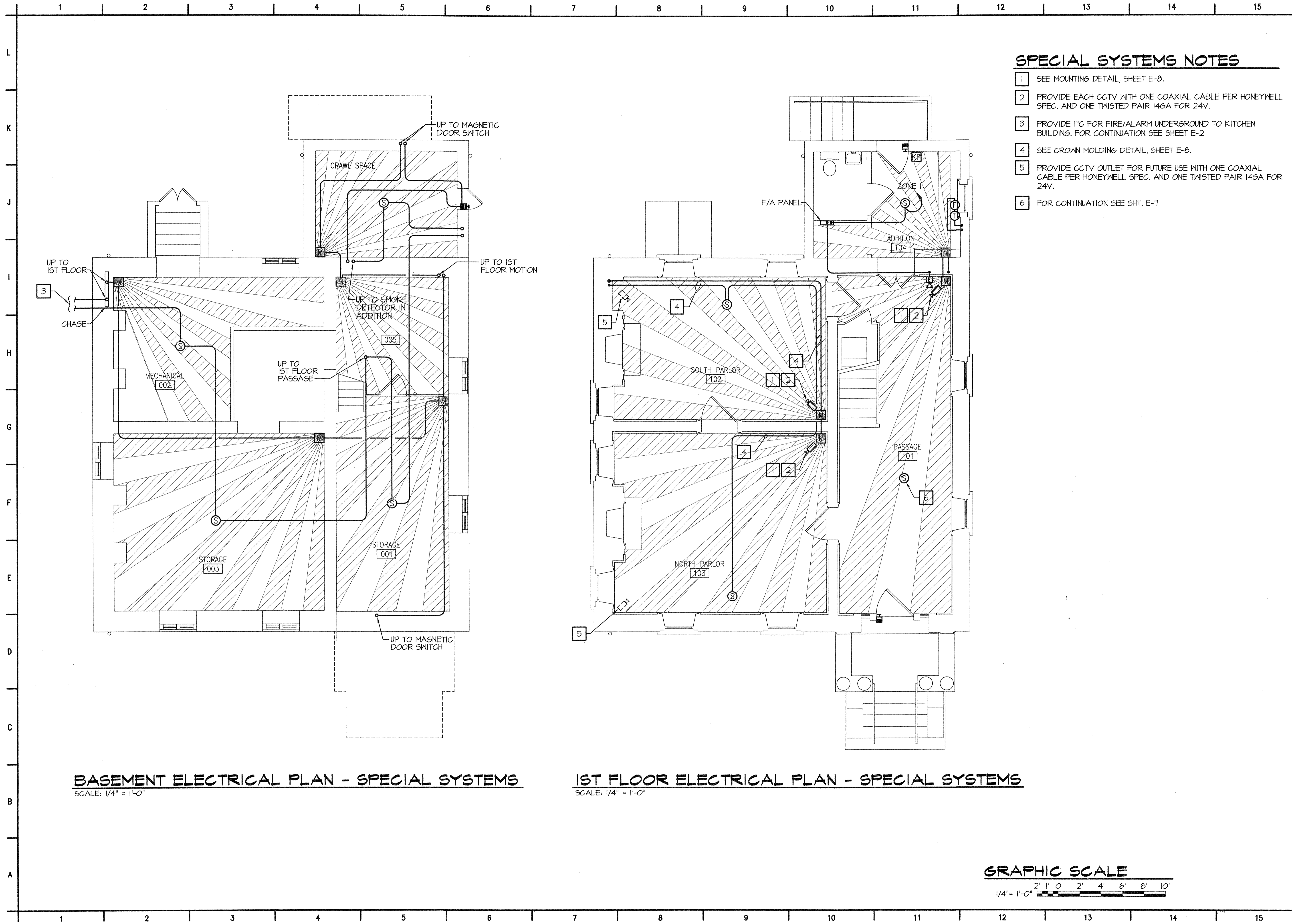
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WILLOUGHBY - BAYLOR HOUSE RENOVATION
 NORFOLK, VIRGINIA
 2ND & 3RD FLOOR PLANS - DEMOLITION

REVISION	DATE
4-1-03	

DRAWN: BAB
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DATE: 17 OCT 2002
PROJECT NO: 02036.00

DRAWING NO: **E-4**
 HANBURY EVANS WRIGHT VLATTAS & CO
 120 Atlantic Street Norfolk, Virginia 23510
 757-321-9600 Fax: 757-321-9601
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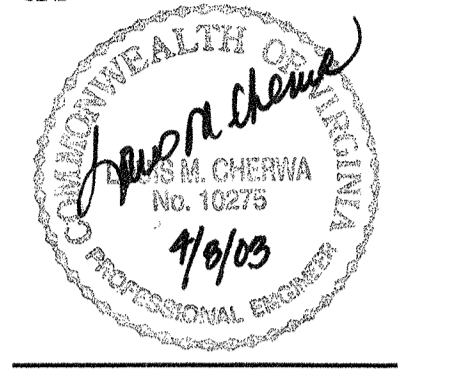


SPECIAL SYSTEMS NOTES

- 1 SEE MOUNTING DETAIL, SHEET E-8.
- 2 PROVIDE EACH CCTV WITH ONE COAXIAL CABLE PER HONEYWELL SPEC. AND ONE TWISTED PAIR 146A FOR 24V.
- 3 PROVIDE 1" C FOR FIRE/ALARM UNDERGROUND TO KITCHEN BUILDING. FOR CONTINUATION SEE SHEET E-2
- 4 SEE CROWN MOLDING DETAIL, SHEET E-8.
- 5 PROVIDE CCTV OUTLET FOR FUTURE USE WITH ONE COAXIAL CABLE PER HONEYWELL SPEC. AND ONE TWISTED PAIR 146A FOR 24V.
- 6 FOR CONTINUATION SEE SHT. E-7

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SEAL



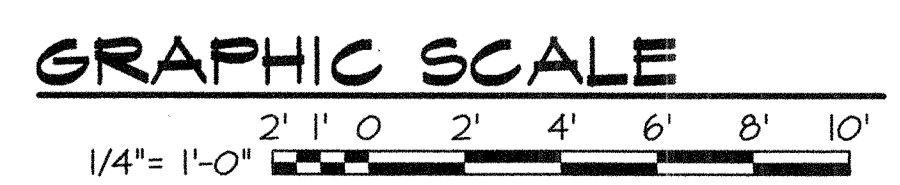
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WILLOUGHBY - BAYLOR HOUSE RENOVATION
 NORFOLK, VIRGINIA
 BASEMENT & 1ST FLOOR PLANS - SPEC. SYS.

REVISION	DATE
	4-1-03

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CHECKED: LMC
DATE: 17 OCT 2002
PROJECT NO: 02036.00
DRAWING NO: **E-7**

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BASEMENT ELECTRICAL PLAN - SPECIAL SYSTEMS
SCALE: 1/4" = 1'-0"

1ST FLOOR ELECTRICAL PLAN - SPECIAL SYSTEMS
SCALE: 1/4" = 1'-0"

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

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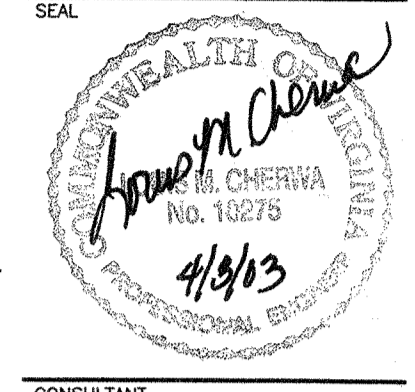
E-9?

SPECIAL SYSTEMS NOTES

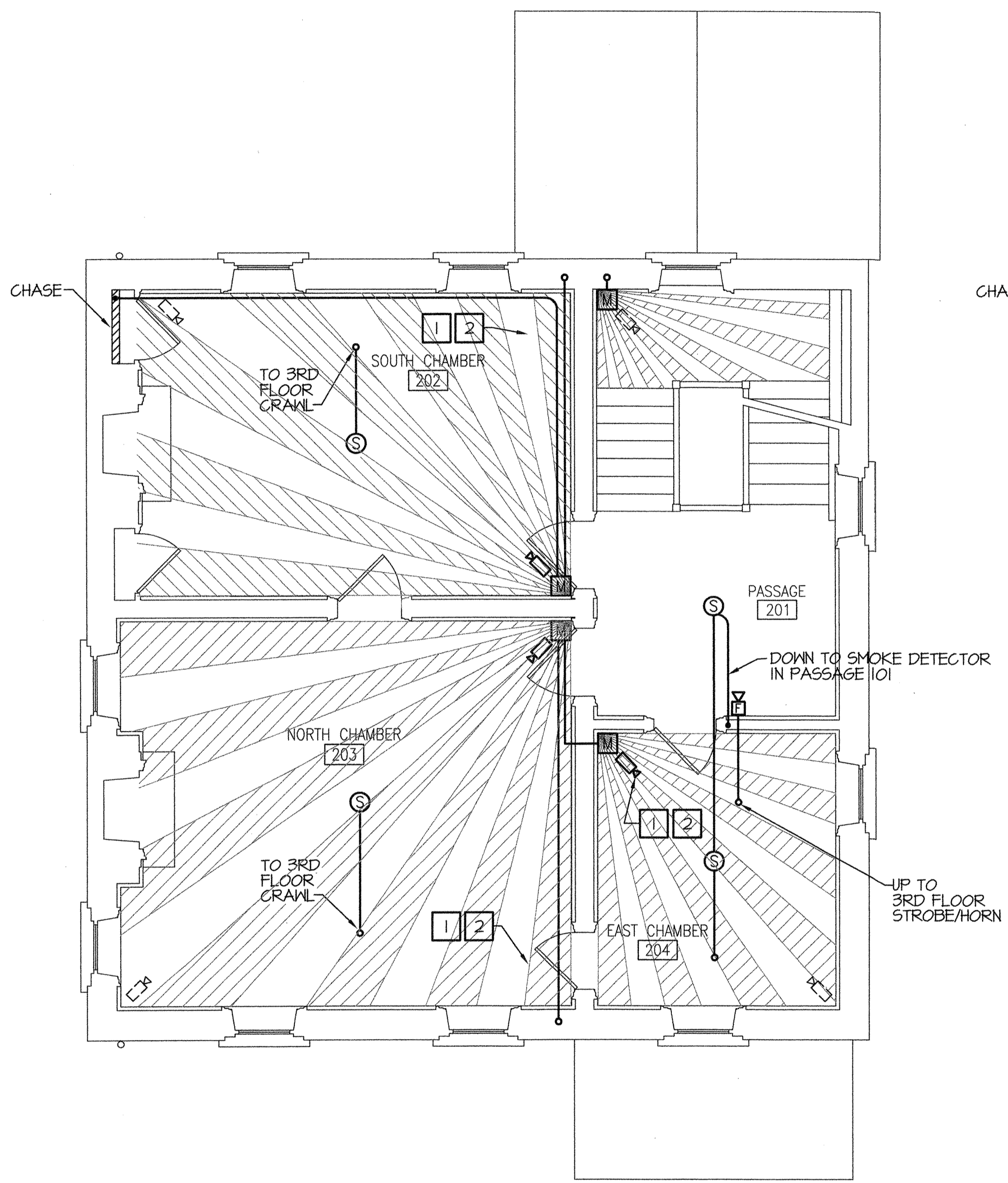
- 1 SEE SHEET E-8 FOR MOUNTING DETAIL.
- 2 PROVIDE EACH CCTV WITH ONE COAXIAL CABLE PER HONEYWELL SPEC. AND ONE TWISTED PAIR 14GA FOR 24V.
- 3 RUN FA/CABLE TO BASEMENT MAIN BUILDING FOR CONTINUATION.
- 4 SECURITY CAMERA SHALL BE MOUNTED TO VENT STACK OF DETACHED KITCHEN BUILDING.

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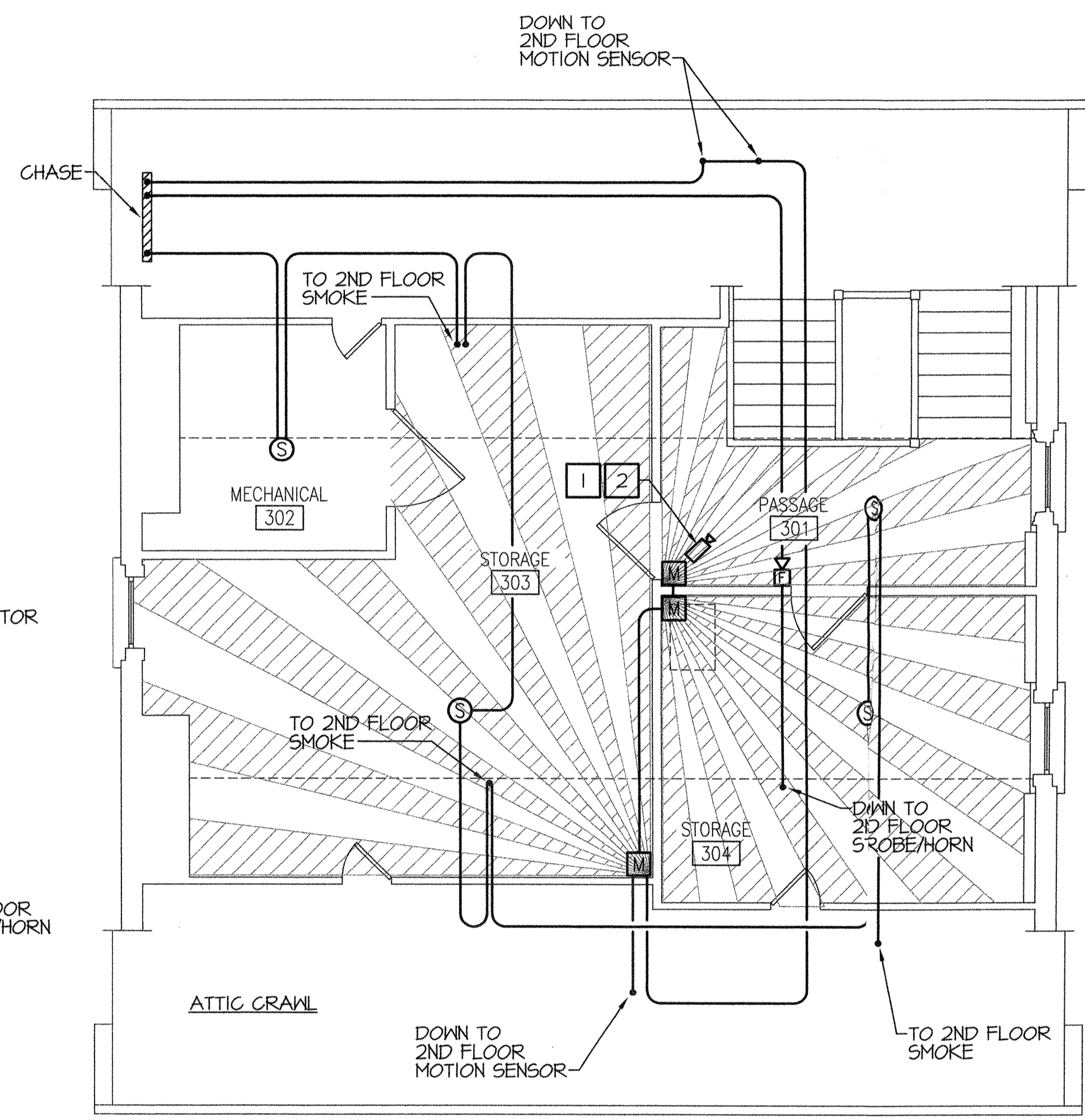
NORFOLK



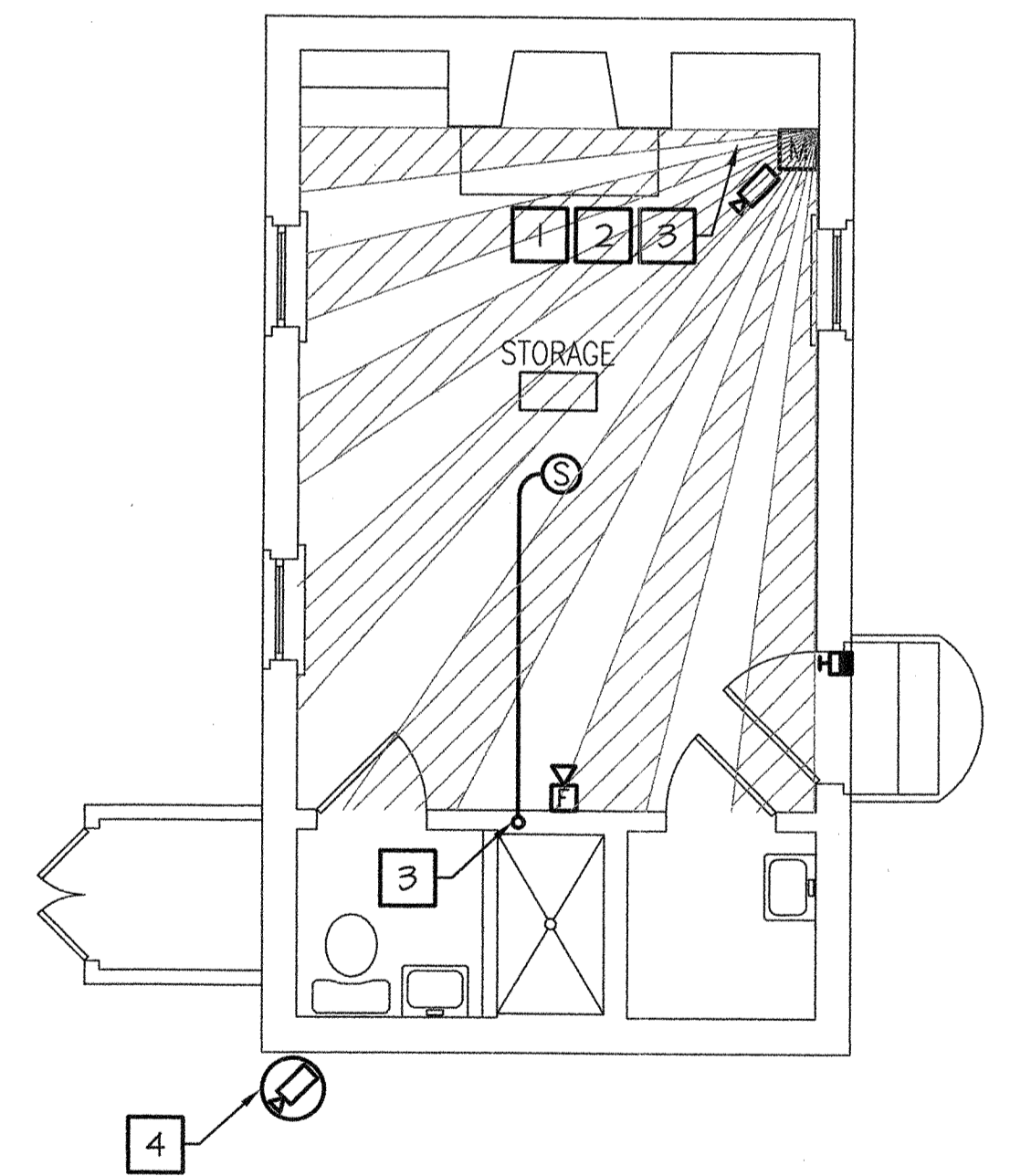
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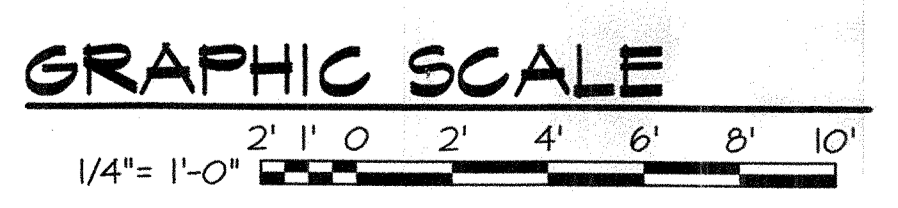
2ND FLOOR ELECTRICAL PLAN - SPECIAL SYSTEMS
SCALE: 1/4" = 1'-0"



3RD FLOOR ELECTRICAL PLAN - SPECIAL SYSTEMS
SCALE: 1/4" = 1'-0"



KITCHEN BUILDING ELECTRICAL PLAN - SPECIAL SYSTEMS
SCALE: 1/4" = 1'-0"



WILLOUGHBY - BAYLOR HOUSE RENOVATION
NORFOLK, VIRGINIA
2ND & 3RD FLOOR PLANS - SPEC. SYS.

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E-8

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

