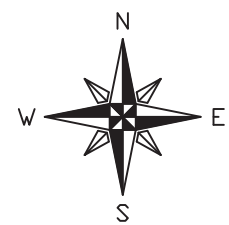
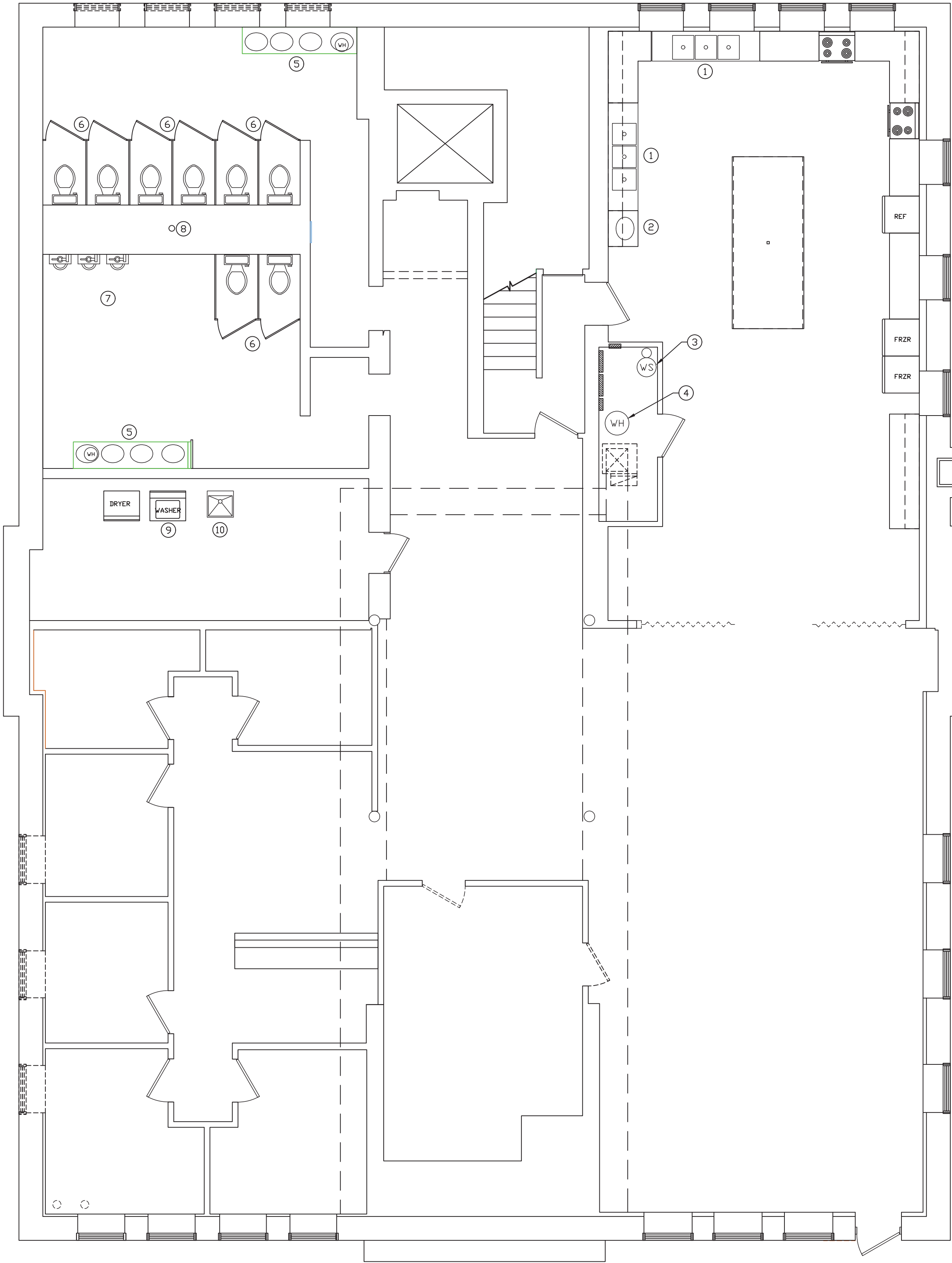


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LOWER LEVEL DEMOLITION  
PLUMBING SANITARY PLAN  
SCALE: 3/16" = 1'-0"

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)

NUMBERED NOTES:

- EXISTING KITCHEN SINK REMAINS  
NO WORK
- EXISTING KITCHEN HAND WASH SINK REMAINS  
NO WORK
- EXISTING WATER SOFTENER REMAINS  
NO WORK
- EXISTING WATER HEATER REMAINS  
NO WORK
- EXISTING RESTROOM SINK AND WATER HEATER  
REMAINS  
NO WORK
- EXISTING RESTROOM WATER CLOSETS REMAIN  
NO WORK
- EXISTING RESTROOM URINALS REMAIN  
NO WORK
- APPROXIMATE LOCATION OF 4' DIAMETER VERTICAL  
WASTE STACK IN RESTROOM CHASE.  
CONFIRM LOCATION AND SIZE PRIOR TO ROUGH-IN.
- EXISTING CLOTHS WASHING MACHINE REMAINS  
NO WORK.
- EXISTING LAUNDRY TUB REMAINS  
NO WORK.

CONSTRUCTION PHASING NOTE:

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

———— COLD WATER LINE  
- - - - - HOT WATER LINE  
- - - - - SANITARY VENT LINE  
———— SANITARY DRAIN LINE  
— GAS — GAS — GAS LINE

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  
STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING  
SYCAMORE BUILDING  
19 SOUTH 6th STREET, SUITE 804  
TERRE HAUTE, INDIANA 47807  
PHONE: (812) 232-6510

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

DATE: 09-11-19

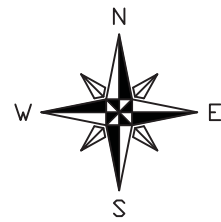
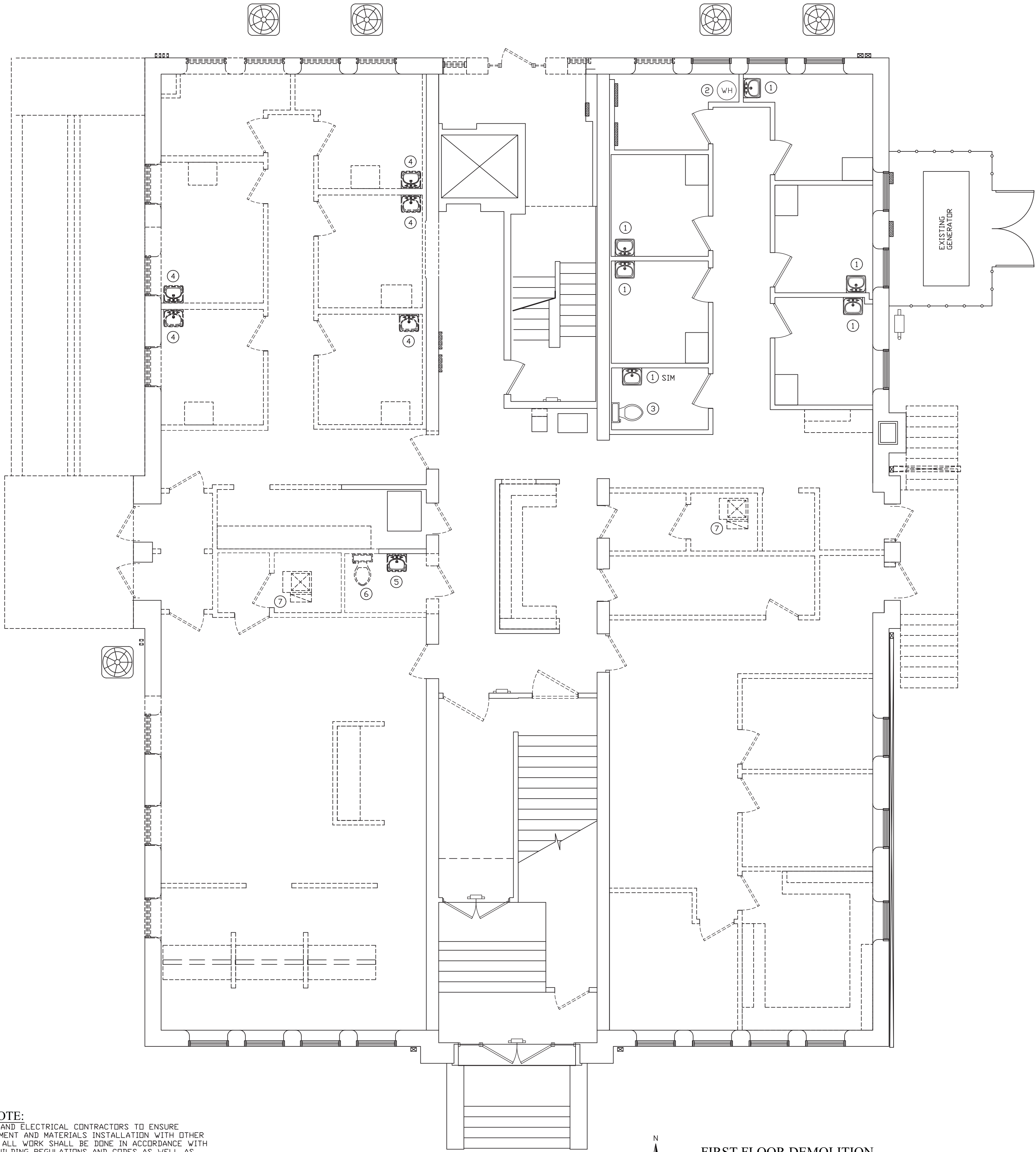
DRAWN BY: MRW

APPROVED BY: MRW

PROJECT: 18-20  
FILE: Plum #F

P1.0

GENERAL MEP NOTE:  
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FIRST FLOOR DEMOLITION  
PLUMBING SANITARY PLAN  
SCALE: 3/16" = 1'-0"

NUMBERED NOTES:

- EXISTING EXAM ROOM SINK.  
NO WORK.
- EXISTING WATER HEATER REMAINS.  
WILL BE RE-USED FOR ADDITIONAL SINKS.
- EXISTING WATER CLOSET REMAINS.  
NO WORK.
- REMOVE EXISTING EXAM ROOM SINK COMPLETE.  
REMOVE ALL WASTE PIPING THRU THE FLOOR  
AND WALLS.  
REMOVE ALL WATER SUPPLY PIPING THRU THE  
FLOOR AND WALLS.
- REMOVE EXISTING RESTROOM SINK COMPLETE.  
REMOVE ALL WASTE PIPING THRU THE FLOOR  
AND WALLS.  
REMOVE ALL WATER SUPPLY PIPING THRU THE  
FLOOR AND WALLS.
- REMOVE EXISTING RESTROOM WATER CLOSET  
COMPLETE.  
REMOVE ALL WASTE PIPING THRU THE FLOOR  
AND WALLS.  
REMOVE ALL WATER SUPPLY PIPING THRU THE  
FLOOR AND WALLS.
- CAP EXISTING CONDENSATE LINE FOR  
REMOVED GAS FURNACE.

- COLD WATER LINE  
- - - - - HOT WATER LINE  
- - - - - SANITARY VENT LINE  
———— SANITARY DRAIN LINE  
— GAS — GAS — GAS LINE

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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

APPROVED BY: MRW

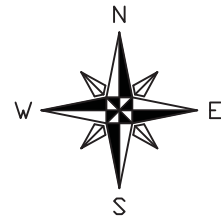
PROJECT: 18-20

FILE: Plum #F

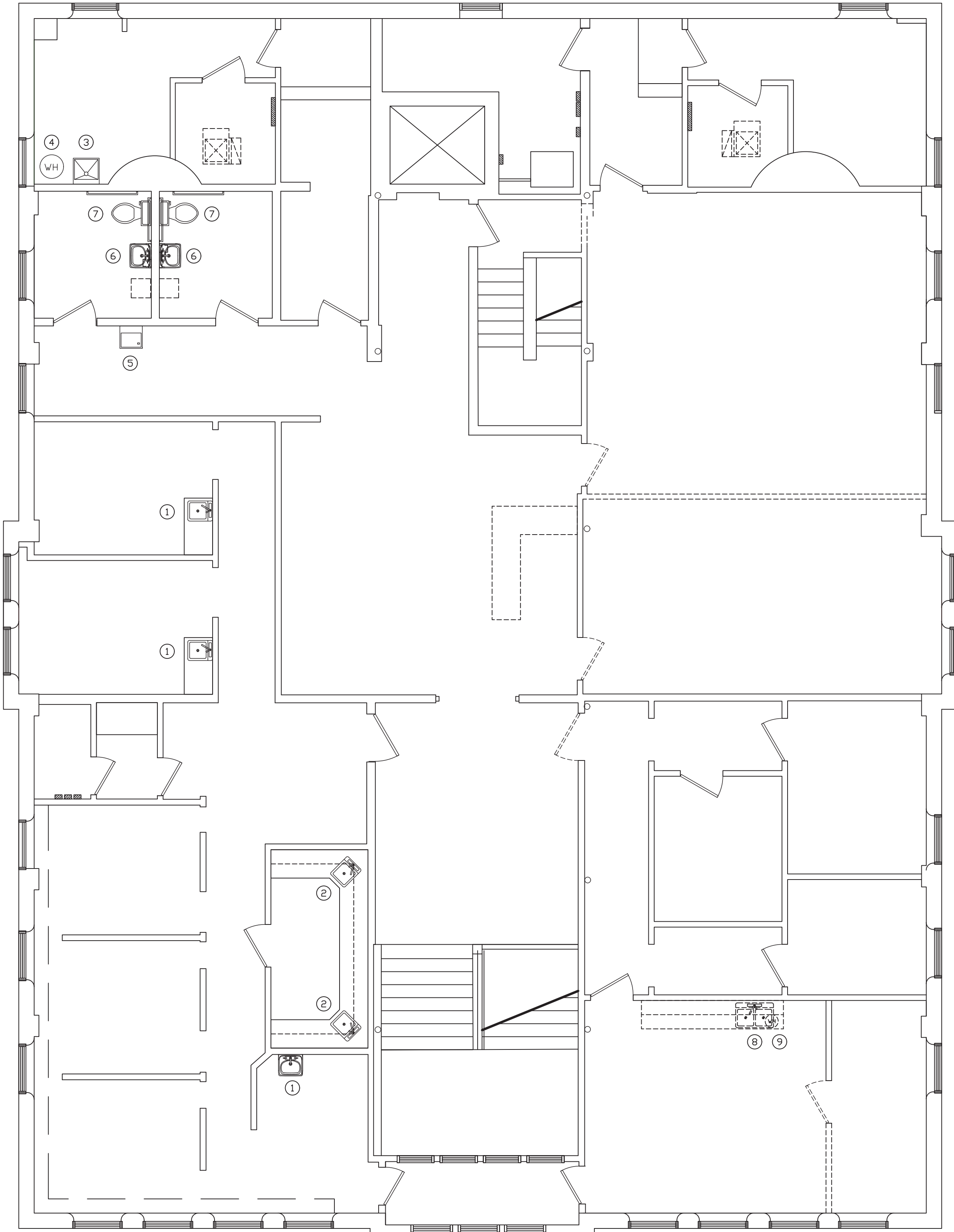
P1.1



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



NUMBERED NOTES:

- EXISTING EXAM ROOM SINK REMAINS  
NO WORK.
- EXISTING DENTAL BAR SINKS REMAIN.  
NO WORK.
- EXISTING LAUNDRY TUB REMAINS.  
NO WORK.
- EXISTING WATER HEATER REMAINS.  
WILL BE RE-USED FOR ADDITIONAL SINKS.
- EXISTING WALL HUNG WATER COOLER REMAINS  
NO WORK
- EXISTING RESTROOM WALL HUNG LAVATORY REMAINS  
NO WORK
- EXISTING RESTROOM WATER CLOSET TO REMAIN.  
NO WORK.
- REMOVE EXISTING DOUBLE BOWL SINK COMPLETE.  
REMOVE ALL WASTE PIPING THRU THE FLOOR  
AND WALLS.  
REMOVE ALL WATER SUPPLY PIPING THRU THE  
FLOOR AND WALLS.
- REMOVE EXISTING 6 GALLON ELECTRIC WATER  
HEATER COMPLETE.

- COLD WATER LINE  
- - - - - HOT WATER LINE  
- - - - - SANITARY VENT LINE  
———— SANITARY DRAIN LINE  
— GAS — GAS — GAS LINE

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PHONE: (812) 232-6510

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

DATE: 09-11-19

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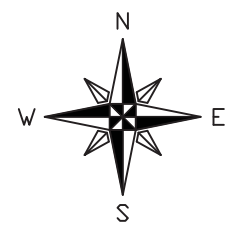
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PROJECT: 18-20

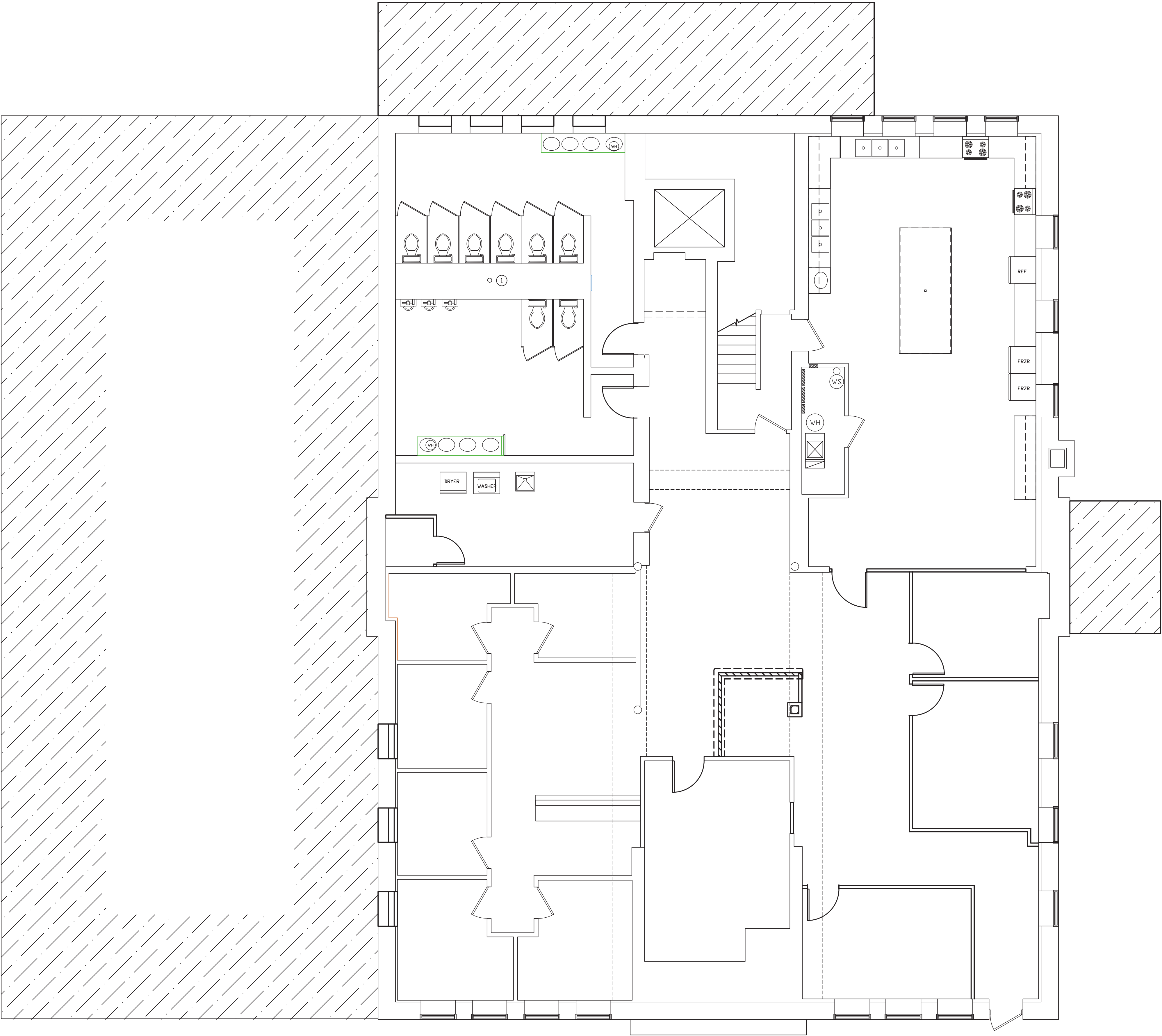
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P1.2

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



NUMBERED NOTES:

- ① APPROXIMATE LOCATION OF 4" DIAMETER VERTICAL WASTE STACK IN RESTROOM CHASE. CONFIRM LOCATION AND SIZE PRIOR TO ROUGH-IN.

- COLD WATER LINE  
----- HOT WATER LINE  
- - - - - SANITARY VENT LINE  
———— SANITARY DRAIN LINE  
— GAS — GAS — GAS LINE

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PHONE: (812) 232-6510

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TERRE HAUTE, INDIANA 47807

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

DATE: 09-11-19

DRAWN BY: MRW

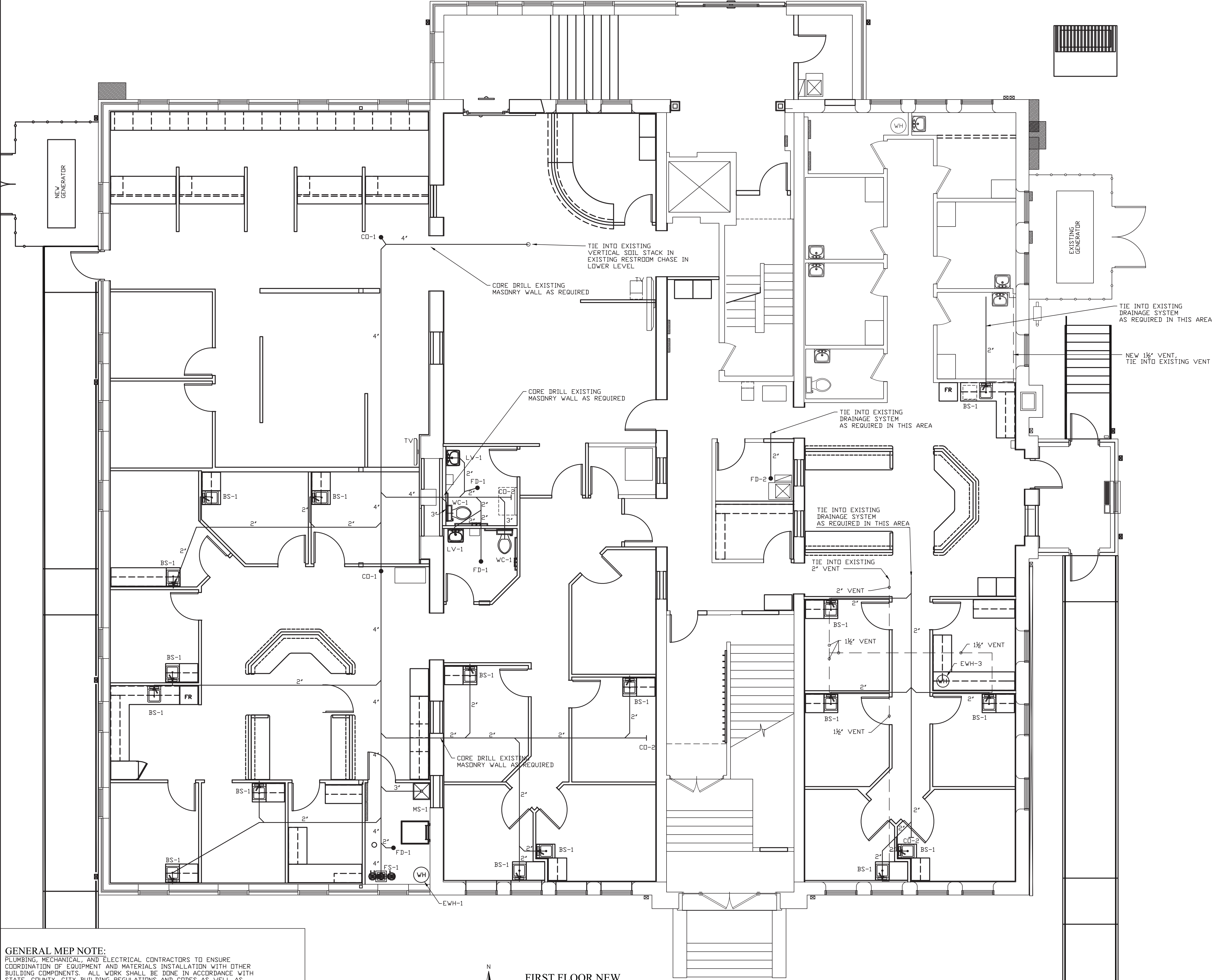
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PROJECT: 18-20

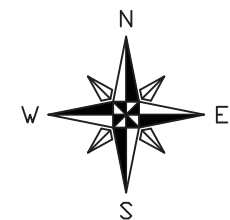
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P1.3





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**FIRST FLOOR NEW  
PLUMBING SANITARY PLAN**  
SCALE: 3/16" = 1'-0"

- COLD WATER LINE
- HOT WATER LINE
- - - - - SANITARY VENT LINE
- SANITARY DRAIN LINE
- GAS — GAS — GAS LINE

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DATE	REVISIONS	BY



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1436 LOCUST STREET  
TERRE HAUTE, INDIANA 47807

BUILDING ADDITIONS & RENOVATION

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

SYCAMORE BUILDING  
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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: Plum #F

**P1.4**

① PROVIDE AND INSTALL ADA COMPLIANT UNDER SINK WATER SUPPLY AND DRAIN COVERS

[illegible]

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

BUILDING ADDITIONS & RENOVATION

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

PHONE: (812) 232-6510





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

SCALE: 3/16" = 1'-0"
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APPROVED BY: MRW

PROJECT: 18-20  
FILE: Plum #F

P1.5

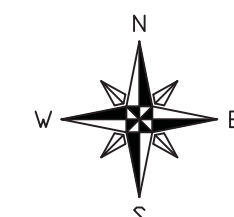


	COLD WATER LINE
	HOT WATER LINE
	SANITARY VENT LINE
	SANITARY DRAIN LINE
	GAS LINE

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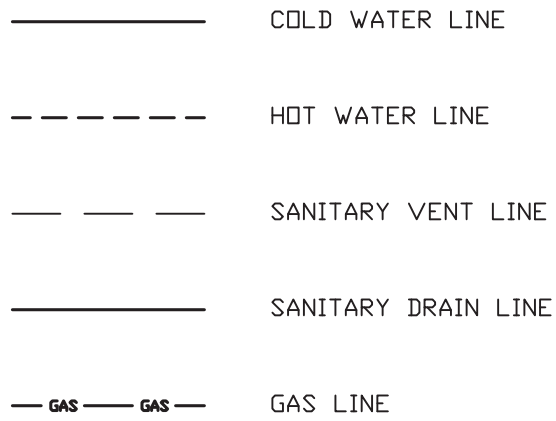
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SECOND FLOOR NEW  
PLUMBING SANITARY PLAN  
SCALE: 3/16" = 1'-0"

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





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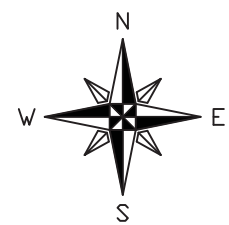
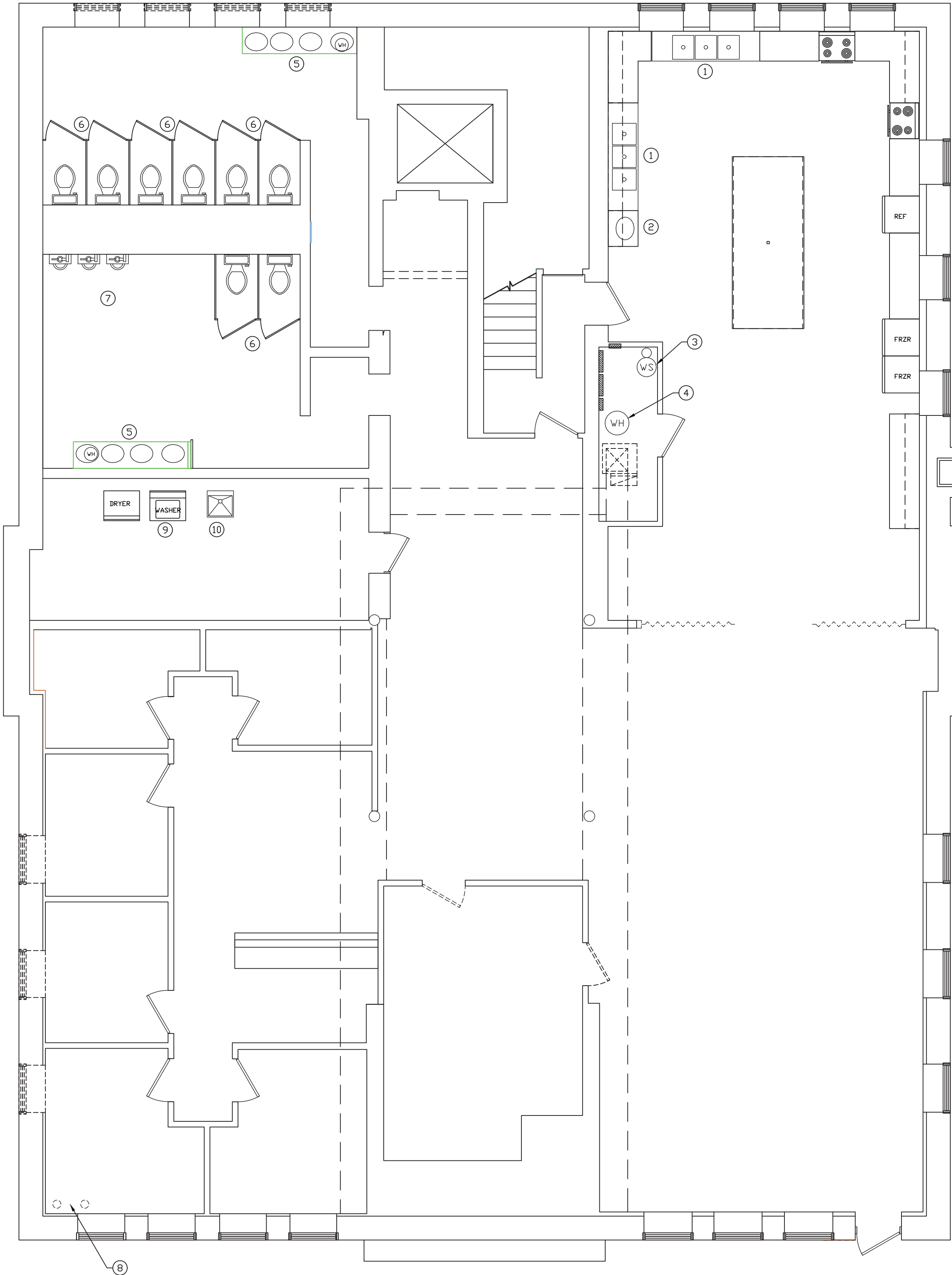
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**MICHAEL R. WALDBESER**  
ENGINEERING & CONSULTING, INC.  
STRUCTURAL, PLUMBING, MECHANICAL & ELECTRICAL DESIGN

SCALE: NONE
DATE: 09-11-19
DRAWN BY: WCF
APPROVED BY: MRW

# P1.6

GENERAL MEP NOTE:  
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LOWER LEVEL DEMOLITION  
PLUMBING WATER PLAN  
SCALE: 3/16" = 1'-0"

- COLD WATER LINE  
----- HOT WATER LINE  
- - - - - SANITARY VENT LINE  
———— SANITARY DRAIN LINE  
— GAS — GAS — GAS LINE

- GENERAL NOTES:  
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NUMBERED NOTES:

- ① EXISTING KITCHEN SINK REMAINS  
NO WORK  
② EXISTING KITCHEN HAND WASH SINK REMAINS  
NO WORK  
③ EXISTING WATER SOFTENER REMAINS  
NO WORK  
④ EXISTING WATER HEATER REMAINS  
NO WORK  
⑤ EXISTING RESTROOM SINK AND WATER HEATER  
REMAINS  
NO WORK  
⑥ EXISTING RESTROOM WATER CLOSETS REMAIN  
NO WORK  
⑦ EXISTING RESTROOM URINALS REMAIN  
NO WORK  
⑧ LOCATION OF EXISTING UNDER FLOOR DOMESTIC  
WATER SERVICE.  
THIS SERVICE WILL BE REMOVED AND ABANDONED.  
PLUMBING CONTRACTOR TO CAP EXISTING LINE  
BELOW FINISH FLOOR.  
CONCRETE REMOVAL AND REPLACEMENT BY GENERAL  
CONTRACTOR.  
⑨ EXISTING CLOTHS WASHING MACHINE REMAINS  
NO WORK  
⑩ EXISTING LAUNDRY TUB REMAINS  
NO WORK

DATE	REVISIONS	BY



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

**MICHAEL R. WALDBIESER**  
ENGINEER & CONSULTING, INC.  
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

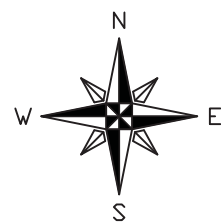
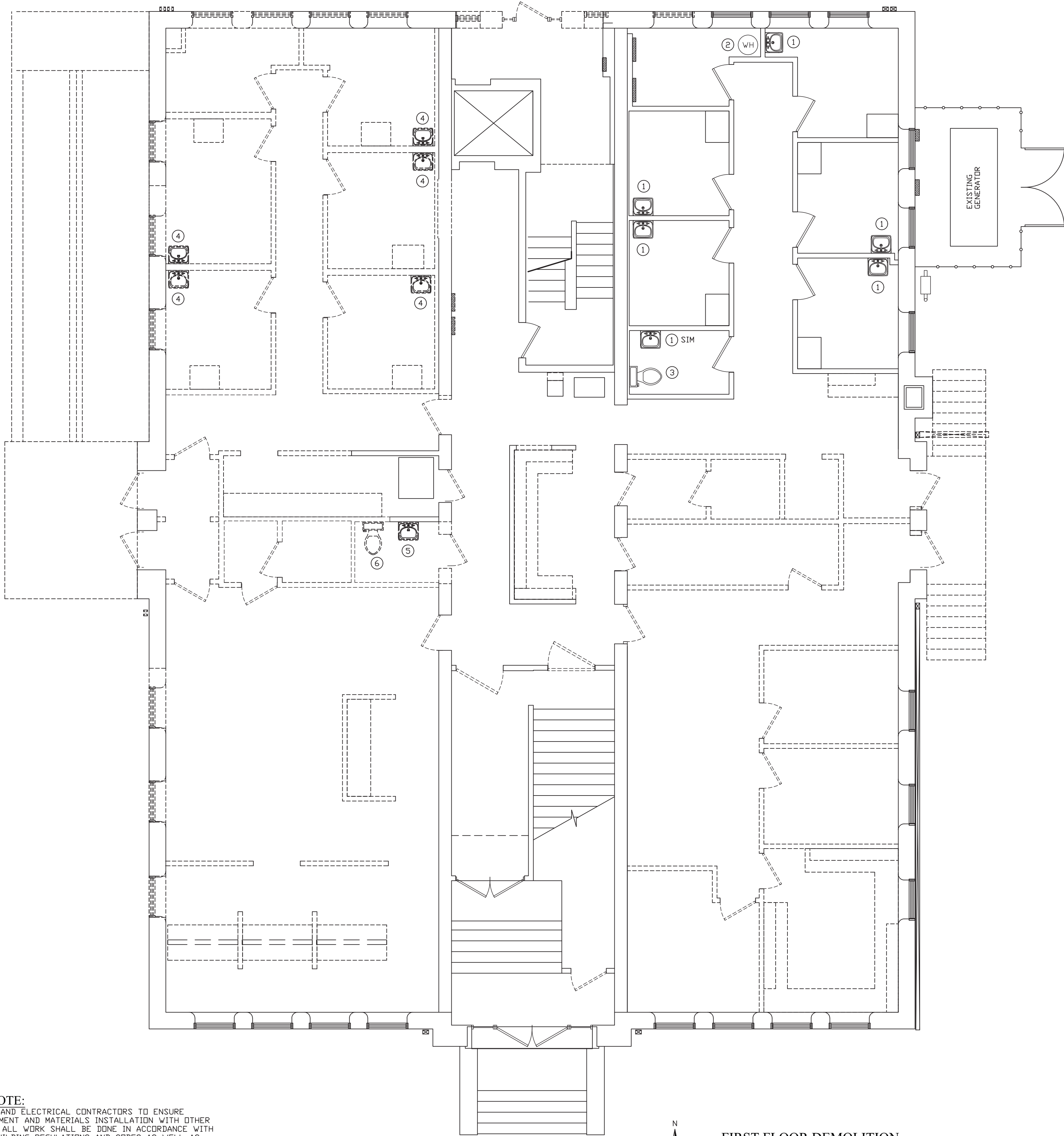
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PROJECT: 18-20  
FILE: Plum #F

P2.0



GENERAL MEP NOTE:  
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FIRST FLOOR DEMOLITION  
PLUMBING WATER PLAN  
SCALE: 3/16" = 1'-0"

NUMBERED NOTES:

- EXISTING EXAM ROOM SINK.  
NO WORK
- EXISTING WATER HEATER REMAINS.  
WILL BE RE-USED FOR ADDITIONAL SINKS.
- EXISTING WATER CLOSET REMAINS.  
NO WORK.
- REMOVE EXISTING EXAM ROOM SINK COMPLETE.  
REMOVE ALL WASTE PIPING THRU THE FLOOR  
AND WALLS.  
REMOVE ALL WATER SUPPLY PIPING THRU THE  
FLOOR AND WALLS.
- REMOVE EXISTING RESTROOM SINK COMPLETE.  
REMOVE ALL WASTE PIPING THRU THE FLOOR  
AND WALLS.  
REMOVE ALL WATER SUPPLY PIPING THRU THE  
FLOOR AND WALLS.
- REMOVE EXISTING RESTROOM WATER CLOSET  
COMPLETE..  
REMOVE ALL WASTE PIPING THRU THE FLOOR  
REMOVE ALL WATER SUPPLY PIPING THRU THE  
FLOOR AND WALLS.

- COLD WATER LINE  
- - - - - HOT WATER LINE  
- - - - - SANITARY VENT LINE  
———— SANITARY DRAIN LINE  
— GAS — GAS — GAS LINE

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1436 LOCUST STREET  
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BUILDING ADDITIONS & RENOVATION

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

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

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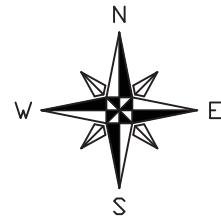
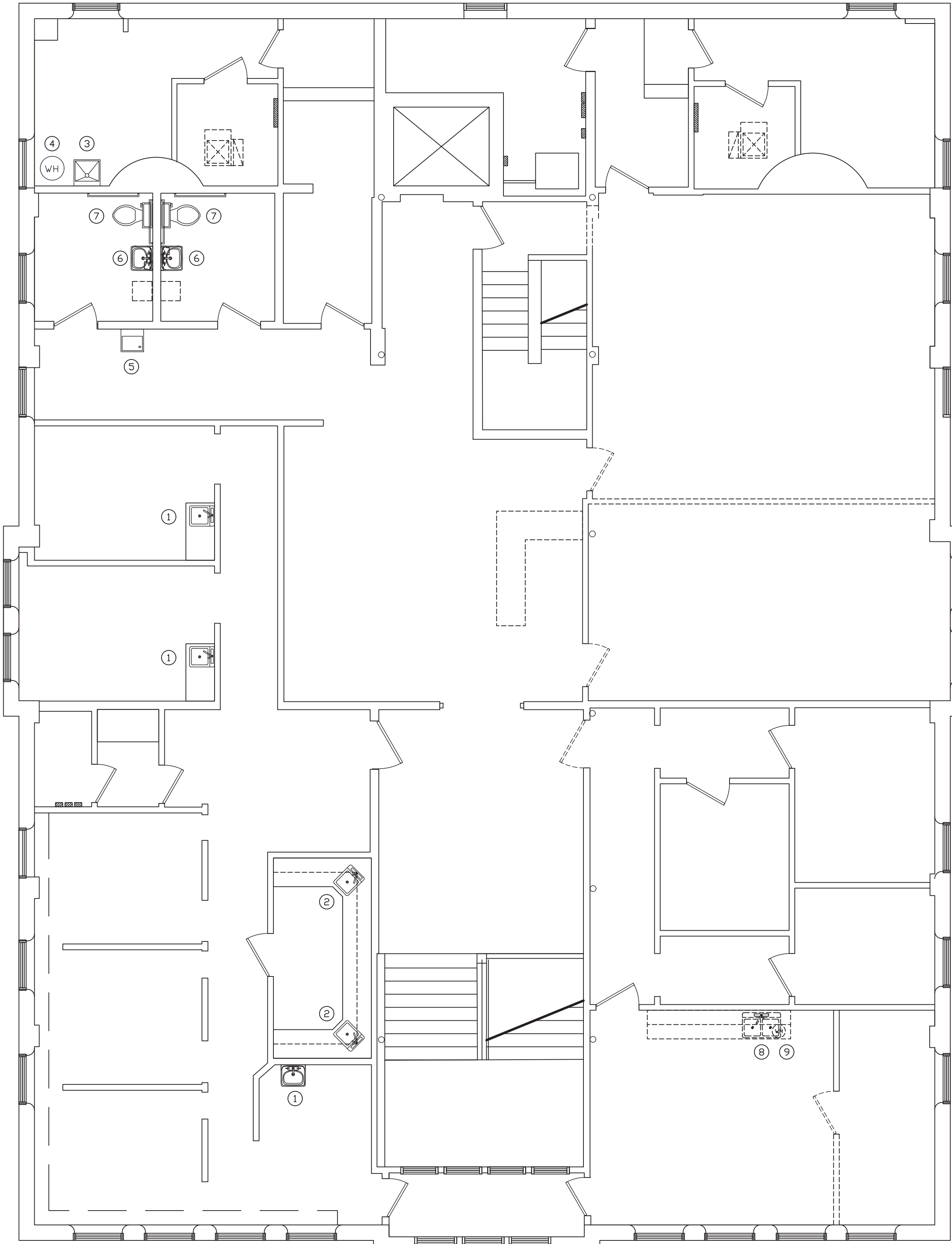
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APPROVED BY: MRW

PROJECT: 18-20  
FILE: Plum #F

P2.1

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

NUMBERED NOTES:

- EXISTING EXAM ROOM SINK REMAINS  
NO WORK
- EXISTING DENTAL BAR SINKS REMAIN.  
NO WORK.
- EXISTING LAUNDRY TUB REMAINS.  
NO WORK.
- EXISTING WATER HEATER REMAINS.  
WILL BE RE-USED FOR ADDITIONAL SINKS.
- EXISTING WALL HUNG WATER COOLER REMAINS  
NO WORK
- EXISTING RESTROOM WALL HUNG LAVATORY REMAINS  
NO WORK
- EXISTING RESTROOM WATER CLOSET TO REMAIN  
NO WORK
- REMOVE EXISTING DOUBLE BOWL SINK COMPLETE.  
REMOVE ALL WASTE PIPING THRU THE FLOOR  
AND WALLS.  
REMOVE ALL WATER SUPPLY PIPING THRU THE  
FLOOR AND WALLS.
- REMOVE EXISTING 6 GALLON ELECTRIC WATER  
HEATER COMPLETE.

- COLD WATER LINE  
- - - - - HOT WATER LINE  
- - - - - SANITARY VENT LINE  
———— SANITARY DRAIN LINE  
— GAS — GAS — GAS LINE

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TERRE HAUTE, INDIANA 47807

PHONE: (812) 232-6510

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DATE: 09-11-19

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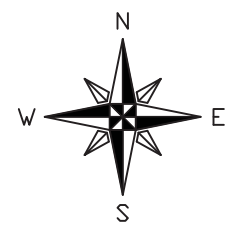
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PROJECT: 18-20  
FILE: Plum #F

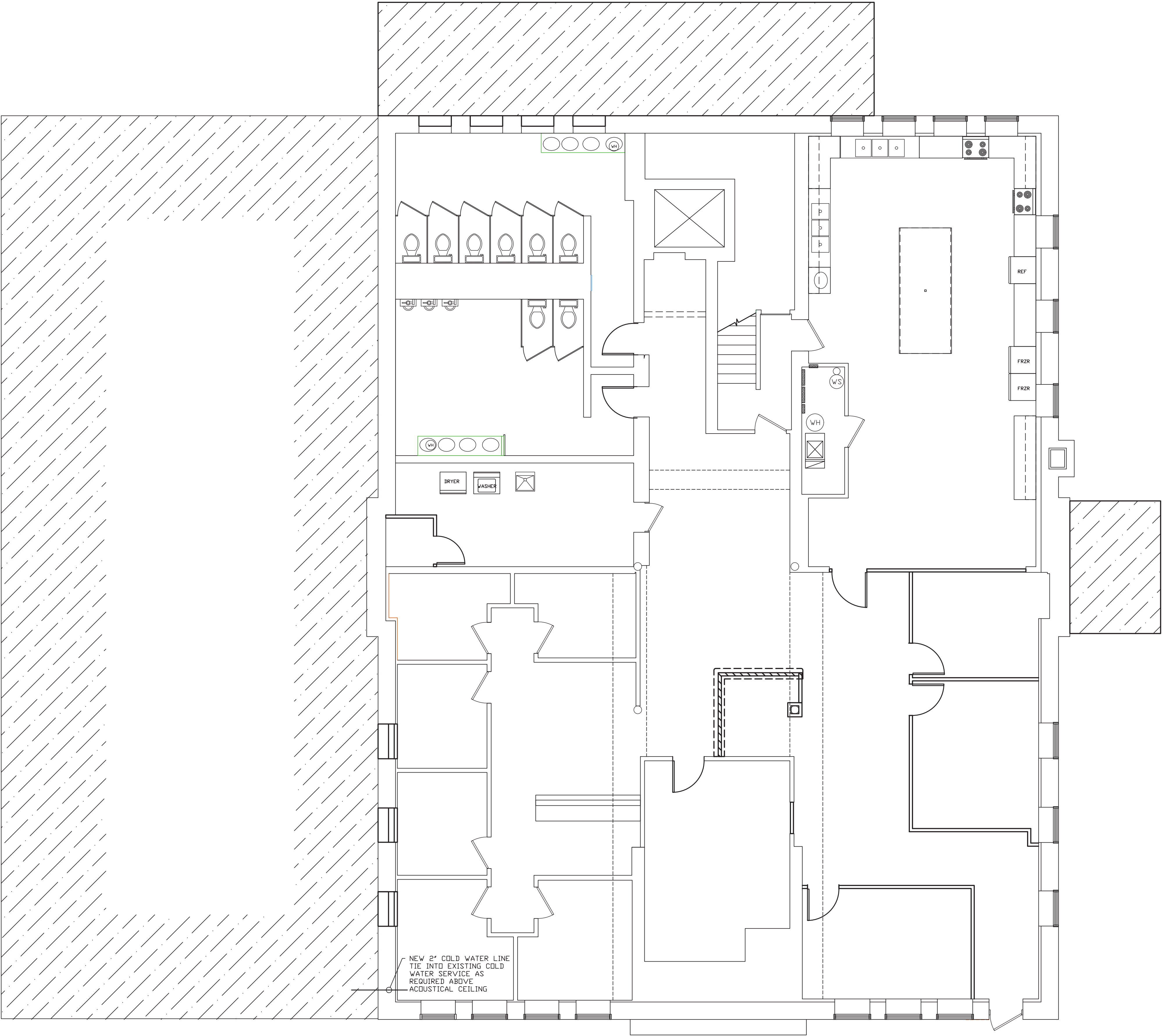
P2.2



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



- COLD WATER LINE
- HOT WATER LINE
- - - - - SANITARY VENT LINE
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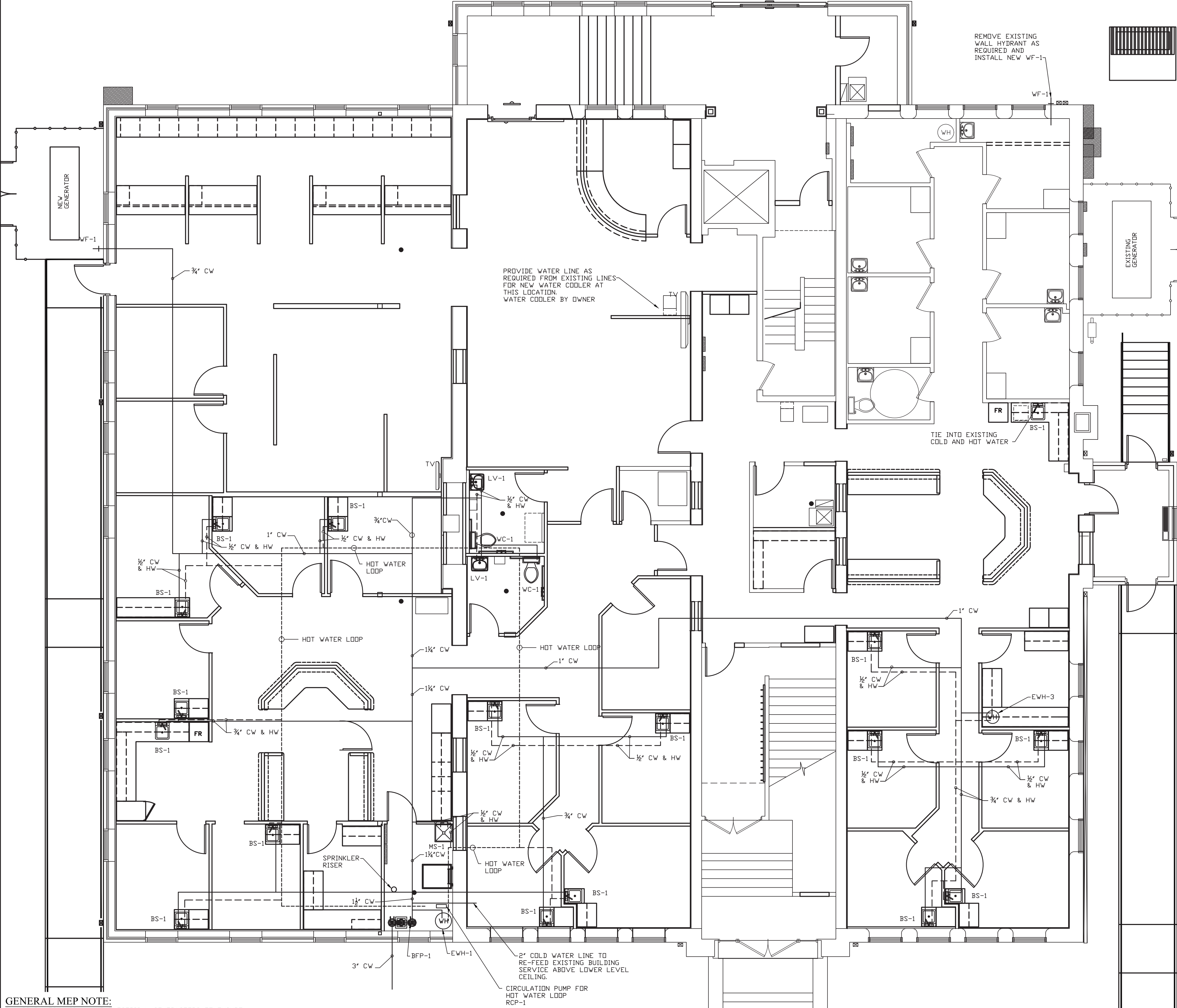
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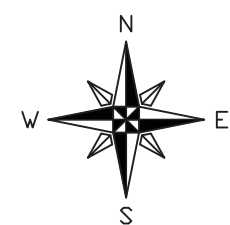
PROJECT: 18-20

FILE: Plum #F

P2.3



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**FIRST FLOOR NEW PLUMBING WATER PLAN**  
SCALE: 3/16" = 1'-0"

- COLD WATER LINE
- - - - - HOT WATER LINE
- . - . - . SANITARY VENT LINE
- - - - - SANITARY DRAIN LINE
- GAS — GAS LINE

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1436 LOCUST STREET  
TERRE HAUTE, INDIANA 47807

BUILDING ADDITIONS & RENOVATION

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

PHONE: (812) 232-6510

SYCAMORE BUILDING  
19 SOUTH 66<sup>TH</sup> STREET, SUITE 804  
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DATE: 09-11-19

DRAWN BY: MRW

APPROVED BY: MRW

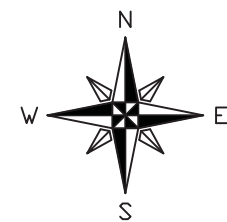
PROJECT: 18-20

FILE: Plum #F

**P2.4**



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



- COLD WATER LINE  
- - - - - HOT WATER LINE  
- - - - - SANITARY VENT LINE  
———— SANITARY DRAIN LINE  
— GAS — GAS — GAS LINE

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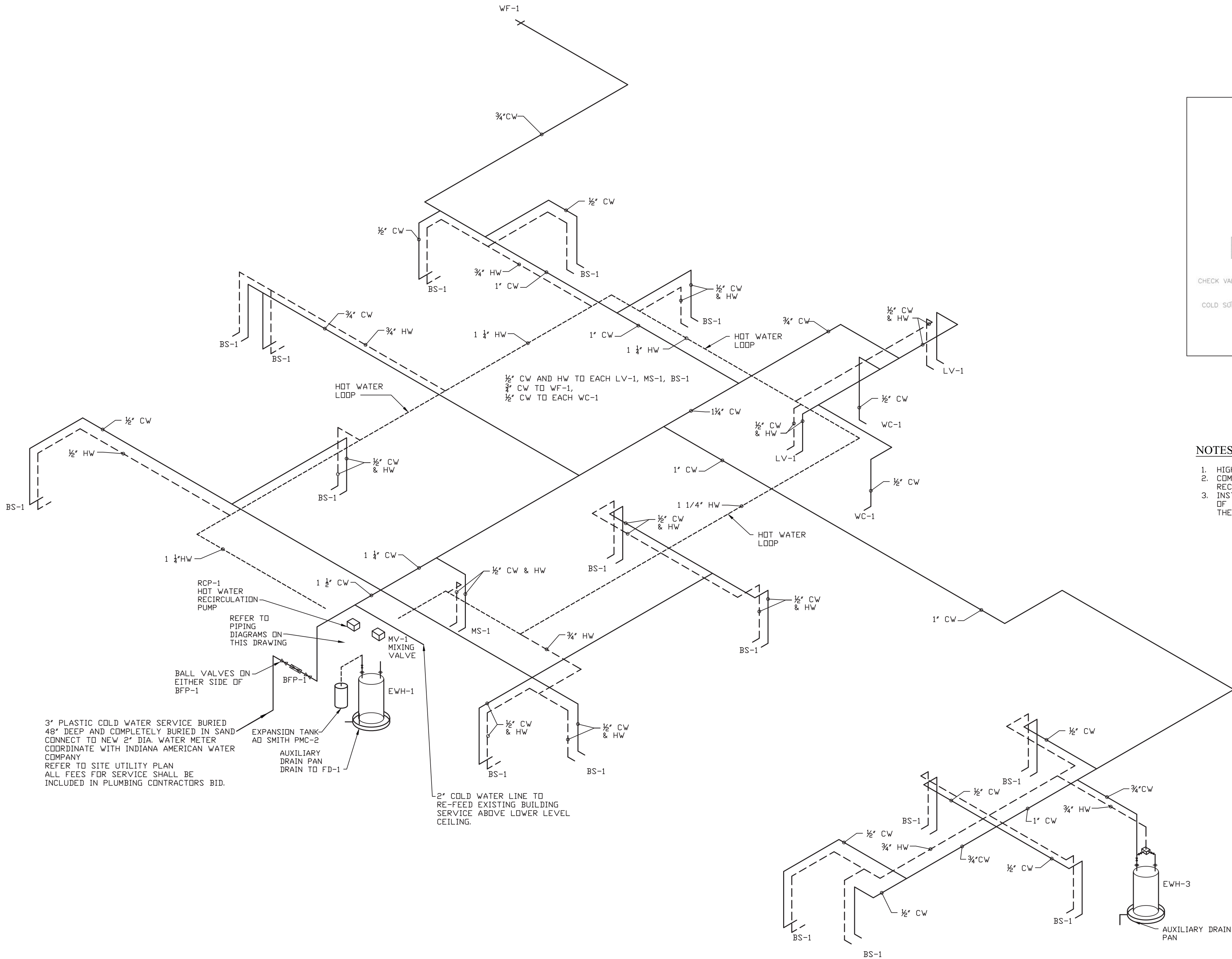
DRAWN BY: MRW

APPROVED BY: MRW

PROJECT: 18-20  
FILE: Plum #F

P2.5

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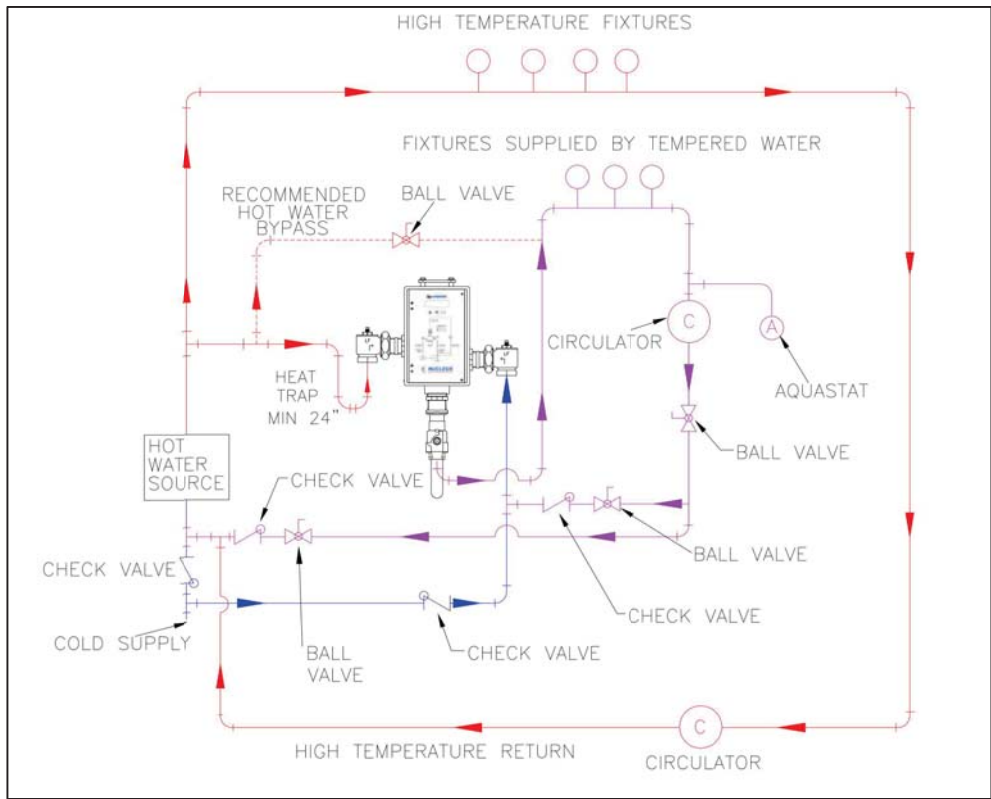


WATER SUPPLY PIPING ISOMETRIC  
SCALE: NONE

RP - RECIRCULATION PUMP SCHEDULE								
MARK	MFG.	MODEL	PRESSURE MAX. WORKING	NOZZLE SIZES		POWER	VOLTAGE	OPTIONS
				DISCHARGE	SUCTION			
RCP-1	GRUNDFOS	ALPHA2-15-SSSF	150 psi	1 1/2"	1 1/2"	5 TO 45 WATTS	115 VOLT / 1 PHASE	1, 2, 3

WATER PUMP OPTIONS:

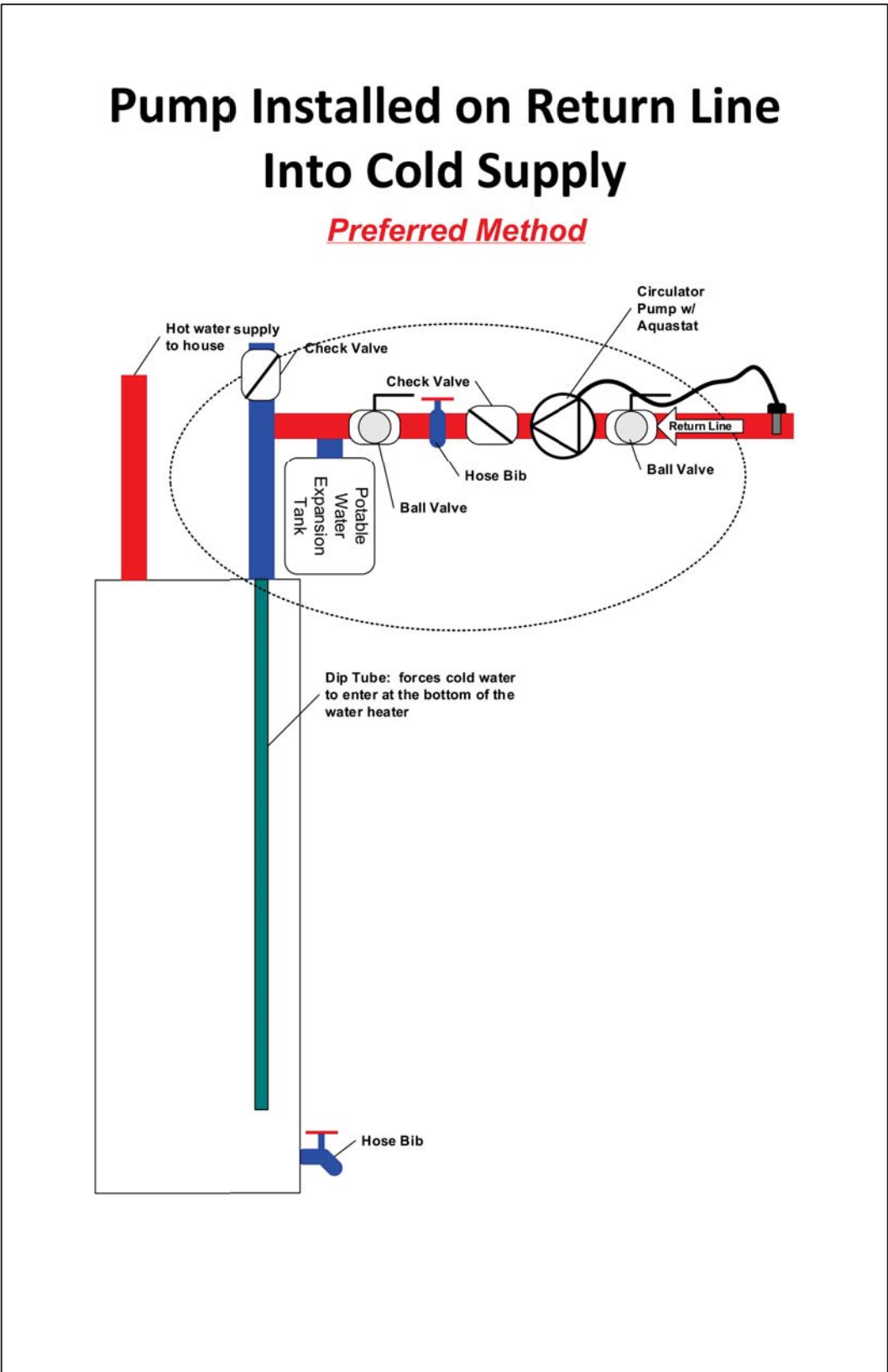
1. PROVIDE AND INSTALL DI-ELECTRIC UNIONS ON SUPPLY AND RETURN.
2. PROVIDE AND INSTALL AQUASTAT FOR CONTROL OF HOT WATER DURING OPERATION. SET TO 115F.



MIXING VALVE PIPING DIAGRAM  
SCALE: NONE

NOTES:

1. HIGH TEMPERATURE LINE WILL NOT BE USED.
2. COMBINE THIS DETAIL WITH THE WATER HEATER AND RECIRCULATING PUMP DETAIL ON THIS DRAWING.
3. INSTALL BOILER DRAIN/HOSE BIBB TO DISCHARGE SIDE OF RECIRCULATION PUMP FOR BLEEDING THE AIR FROM THE RECIRCULATION LINE.



WATER HEATER PIPING DIAGRAM  
SCALE: NONE

———— COLD WATER LINE  
- - - - - HOT WATER LINE  
- - - - - SANITARY VENT LINE  
———— SANITARY DRAIN LINE  
— GAS — GAS — GAS LINE

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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 6th STREET, SUITE 804  
TERRE HAUTE, INDIANA 47807

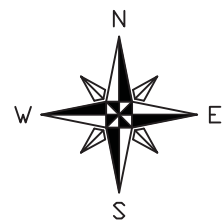
PHONE: (812) 232-0510

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

P2.6



GENERAL MEP NOTE:  
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PLUMBING GAS PLAN  
SCALE: 3/16" = 1'-0"

## GAS PRESSURE REGULATOR SCHEDULE

MARK	GAS CAPACITY	PRESSURE INLET	PRESSURE OUTLET	NOTES
GPR-1	2,061,000 BTU/HR	2 LB PRESSURE	12" WATER COLUMN	VERIFY OUTLET PRESSURE WITH MFG.
GPR-2	100,000 BTU/HR	2 LB PRESSURE	8" WATER COLUMN	VERIFY OUTLET PRESSURE WITH MFG.
GPR-3	100,000 BTU/HR	2 LB PRESSURE	8" WATER COLUMN	VERIFY OUTLET PRESSURE WITH MFG.
GPR-4	80,000 BTU/HR	2 LB PRESSURE	8" WATER COLUMN	VERIFY OUTLET PRESSURE WITH MFG.
GPR-5	100,000 BTU/HR	2 LB PRESSURE	8" WATER COLUMN	VERIFY OUTLET PRESSURE WITH MFG.
GPR-6	100,000 BTU/HR	2 LB PRESSURE	8" WATER COLUMN	VERIFY OUTLET PRESSURE WITH MFG.
GPR-7	125,000 BTU/HR	2 LB PRESSURE	8" WATER COLUMN	VERIFY OUTLET PRESSURE WITH MFG.
GPR-8	150,000 BTU/HR	2 LB PRESSURE	8" WATER COLUMN	VERIFY OUTLET PRESSURE WITH MFG.
GPR-9	1,786,000 BTU/HR	2 LB PRESSURE	12" WATER COLUMN	VERIFY OUTLET PRESSURE WITH MFG.

### PLUMBING PIPING SPECIFICATIONS:

- GAS PIPING INSIDE BUILDING UNDER 2 1/2" IN SIZE SHALL BE BLACK STEEL, SCHEDULE 40, THREADED. ALL GAS PIPING 2 1/2" OR LARGER IN SIZE SHALL HAVE WELDED CONNECTIONS AND JOINTS.

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———— COLD WATER LINE  
- - - - - HOT WATER LINE  
- - - - - SANITARY VENT LINE  
———— SANITARY DRAIN LINE  
— GAS — GAS — GAS LINE

### GENERAL NOTES:

- ALL CONTRACTORS AND SUB-CONTRACTORS SHALL REVIEW ALL DRAWINGS FOR WORK PERFORMED BY THAT CONTRACTOR.
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SCALE: 3/16" = 1'-0"

DATE: 09-11-19

DRAWN BY: MRW

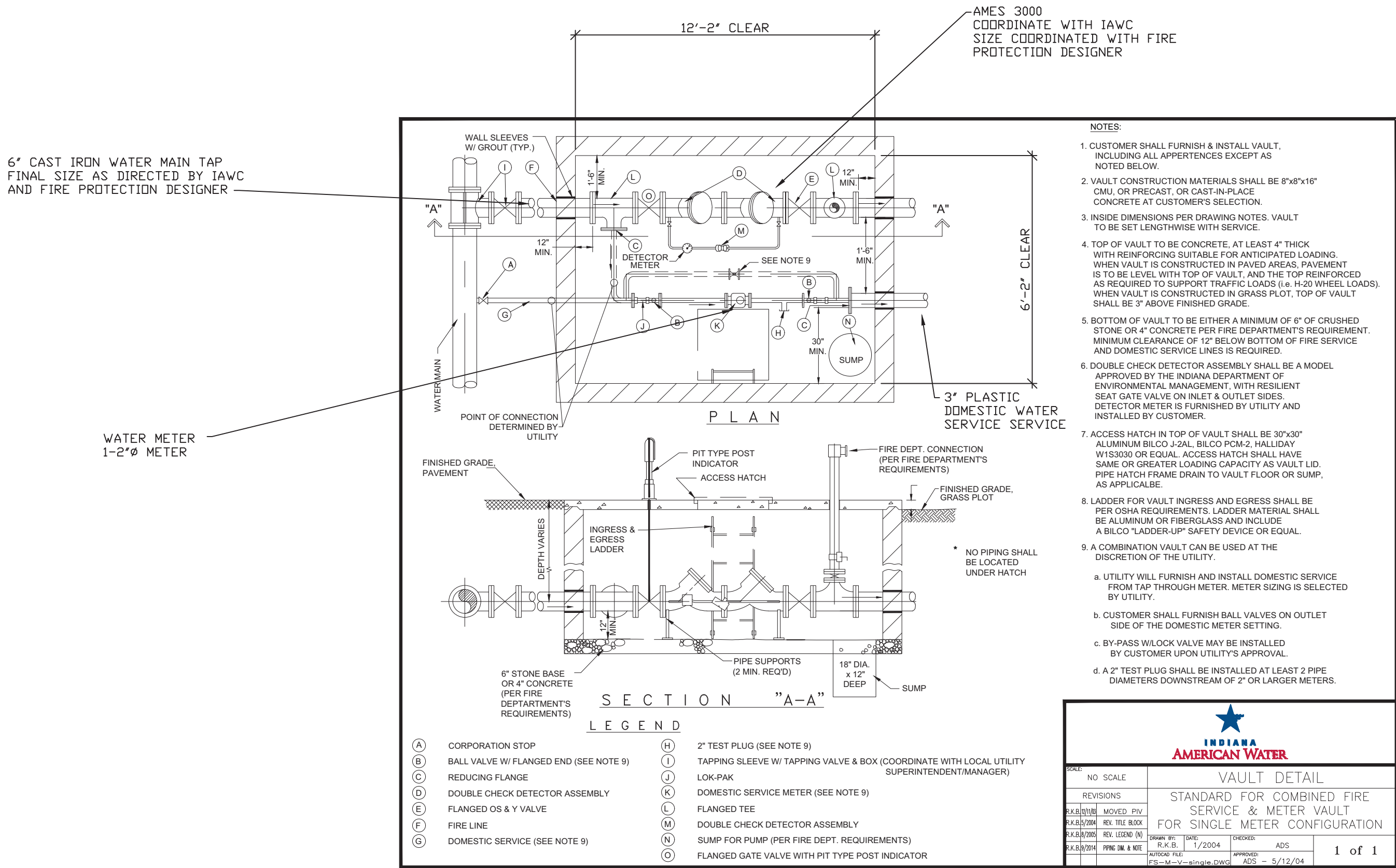
APPROVED BY: MRW

PROJECT: 18-20  
FILE: Plum #F

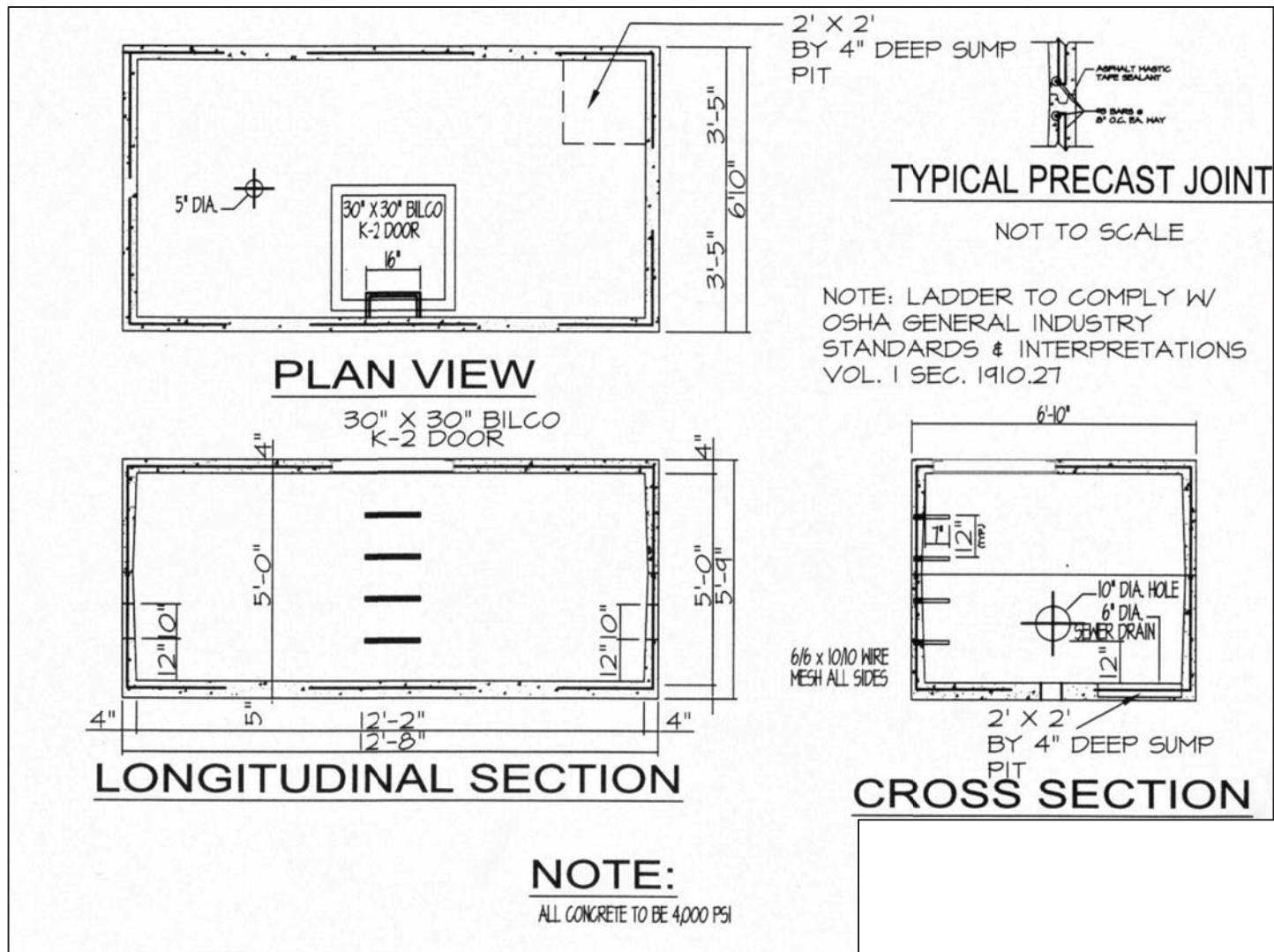
P3.0



GENERAL MEP NOTE:  
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PRE-CAST CONCRETE VAULT INFORMATION  
SCALE: NONE



PRE-CAST CONCRETE VAULT INFORMATION  
SCALE: NONE

- 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)

- COLD WATER LINE
- HOT WATER LINE
- SANITARY VENT LINE
- SANITARY DRAIN LINE
- GAS

- GENERAL NOTES:
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BUILDING ADDITIONS & RENOVATION

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PHONE: (812) 232-6510

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

P4.0



PLUMBING FIXTURE SCHEDULE											
SYMBOL	LOCATION	MODEL	DESCRIPTION	FAUCET / FLUSH VALVE	FITTINGS AND TRIM		PLUMBING FIXTURE PIPE SIZE				REMARKS
					FITTINGS MODEL	FITTING AND DESCRIPTION	WASTE	VENT	DCW	DHW	
WC-1	RESTROOM	AMERICAN STANDARD #215AA004	WATER CLOSET; CADET PRO RIGHT HEIGHT ELONGATED, 16 GPF, WHITE IN COLOR, ADA HANDICAPPED	N/A - TANK TYPE TOILET	AMERICAN STANDARD #5901.110	WHITE HEAVY DUTY ELONGATED SEAT WITH EVERCLEAN SURFACE	3"	2"	1/2"	N/A	WITH ANGLE STOP WITH SUPPLY LINE WITH FLANGE ON SUPPLY
LV-1	RESTROOM	AMERICAN STANDARD #0355.012	LAVATORY; LUCERNE WHITE WALL-HUNG	AMERICAN STANDARD COLONY PRO #7075.054 CHROME FAUCET METAL LEVER HANDLE LESS DRAIN, LESS POP-UP HOLE AND RDR	TRUEBRO LAV GUARD2	ADA COMPLIANT UNDERSINK WATER SUPPLY AND WASTE COVERS	1 1/4"	1 1/2"	1/2"	1/2"	RIM SET AT HANDICAPPED HEIGHT - I.E. RIM @ +34" A.F.F. WITH ANGLE STOPS WITH SUPPLY LINES WITH FLANGE ON SUPPLYS & WASTE WITH 1 1/4" CHROME PLATED P-TRAP WITH GRID DRAIN
BS-1	VARIABLES	ELKAY MFG. #LRADISI1765	STAINLESS STEEL SINK; SIZE = 15" x 17 1/2" DEPTH 18 GAUGE TYPE 304 STAINLESS STEEL WITH LUSTROUS HIGHLIGHTED SATIN FINISH BOWL DEPTH = 6 1/2"	AMERICAN STANDARD #7500.170 MONTERREY TWO-HANDLE CENTERSET POLISHED CHROME FAUCET WITH GOOSENECK SPOUT.	-	-	1 1/2"	1 1/2"	1/2"	1/2"	WITH ANGLE STOPS WITH SUPPLY LINES WITH FLANGE ON SUPPLYS & WASTE WITH 1 1/2" CHROME PLATED P-TRAP WITH BASKET STRAINER
BFP-1	VARIABLES	WILKINS #375AST-DSY-AG	BACKFLOW PREVENTER; REDUCED PRESSURE PRINCIPLE ASSEMBLY WITH AIR GAP ACCESSORY WITH STRAINER ON INCOMING SIDE	-	-	-	-	-	-	-	DRAIN AIR GAP TO FLOOR SINK COORDINATE ACCESSORIES WITH WATER PIPING MATERIAL AS REQUIRED.
WF-1	VARIABLES	WOODFORD #65	WALL FAUCET; BACKFLOW PROTECTED FREEZELESS WALL HYDRANT	-	-	-	-	-	3/4"	-	WITH INLET AND LENGTH AS REQUIRED FOR WALL THICKNESS WITH TEE KEY EXTERIOR OPTIONS: CHROME PLATED, POLISHED BRASS, OR ROUGH BRASS
CD-1	VARIABLES	ZURN EZC-PV	ADJUSTABLE FLOOR CLEANOUT; PVC BODY WITH ADJUSTABLE NICKEL BRONZE COVER	-	-	-	-	-	-	-	SAME SIZE AS DRAIN LINE
CD-2	VARIABLES	PVC	CLEANOUT; SCH 40 PVC ABOVE SUSPENDED CEILING.	-	-	-	-	-	-	-	SAME SIZE AS DRAIN LINE
FD-1	RESTROOM	ZURN #EZ1-PV	ADJUSTABLE FLOOR DRAIN; PVC BODY WITH 5" DIA. ADJUSTABLE NICKEL BRONZE HEEL-PROOF GRATE	-	-	-	2"	-	-	-	-
FD-2	MECH. ROOM	PVC WITH 3" TO 2" PIPE REDUCER TOP	FLOOR DRAIN; SCH 40 PVC	-	-	-	2"	-	-	-	-
FS-1	MECH. ROOM	ZURN #FD-2370-PV4-T	FLOOR DRAIN/SINK; 12"x12" PVC FLOOR SINK WITH 3/4" GRATE.	-	-	-	4"	-	-	-	-
MS-1	MECH. ROOM	MUSTEE #62M	MDP SERVICE BASIN; DURASTONE WHITE STRUCTURAL FIBERGLASS SIZE = 24" x 24" WITH 3" DRAIN SEAL BOWL DEPTH = 8 1/4"	AMERICAN STANDARD #0355.110 POLISHED CHROME FAUCET WITH CAST BRASS CONSTRUCTION WITH 3/4" HDSE THREAD END WITH VACUUM BREAKER WITH WALL BRACE WITH BUCKET HOOK	-	-	3"	1 1/2"	1/2"	1/2"	WITH HDSE & HOLDER WITH MDP HANGER WITH BUMPER GUARDS WITH DURAGUARD WALL GUARDS
MV-1	MECH. ROOM	LEONARD NUCLEUS #PNV-100-LF	DIGITALLY CONTROLLED MIXING VALVE	-	-	-	-	-	-	-	3/4" INLET - 1" OUTLETS

PLUMBING FIXTURE NOTES:

- ALL ANGLE SUPPLIES SHALL BE BRASS CRAFT G2 SERIES 1/4 TURN CHROME PLATED BRASS ANGLE STOPS.
- ALL SUPPLY LINE SHALL BE BRASS CRAFT CHROME PLATED BRASS RISERS WITH CONNECTIONS AS REQUIRED.
- ALL SUPPLY AND WASTE LINES SHALL HAVE ONE PIECE CHROME PLATED FLANGES AT WALL LINES.
- ALL P-TRAPS SHALL BE 17 GAUGE CHROME PLATED WITH CLEANOUTS IN BOTTOM OF TRAP.
- PROVIDE AND INSTALL 2" SURESEAL INLINE FLOOR DRAIN TRAP SEALER IN EACH FD-1 AND FD-2.

PLUMBING PIPING SPECIFICATIONS:

- SANITARY PIPING SHALL BE SDR35 PIPE MEETING ASTM-D3034.
- WASTE AND VENT PIPING SHALL BE SCH 40 PVC.
- WATER PIPING AS FOLLOWS:
  - WATER PIPING IN THE BUILDING SHALL BE TYPE L HARD COPPER WITH LEAD FREE SOLDERED JOINTS AND INSULATED WITH 3/4" THICK ARMAFLEX INSULATION.
  - ALTERNATE TYPE L HARD COPPER WITH PROBRESS FITTINGS.
  - WATER PIPING UNDER THE CONCRETE SLAB SHALL BE PEX CROSS-LINKED POLYETHYLENE OF SIZE SHOWN ON THE DRAWINGS.
  - WATER SERVICE PIPING SHALL BE 3" IPS SDR11 BLACK HDPE.

WATER HEATER SCHEDULE

MARK	MFG.	MODEL	ENERGY FACTOR	HEATING-ELECTRIC INPUT	GALLON CAPACITY	FIRST HR. RATING	VOLTAGE	MCA	OPTIONS
EVH-1	A.D. SMITH	DRE-52-15	-	15,000	52	-	208 3 PHASE	41.6	1, 2, 3, 4
EVH-2	A.D. SMITH	EJC-6	N/A	1,600	6	N/A	120	13.75	1, 3
EVH-3	A.D. SMITH	EJC-5	N/A	2,500	19	N/A	120	20.83	1, 3

WATER HEATER OPTIONS:

- PROVIDE PLASTIC AUXILIARY DRAIN PAN UNDER UNIT
- PROVIDE A.D. SMITH PMC-2 EXPANSION TANK
- PROVIDE DI-ELECTRIC UNIONS ON HOT AND COLD WATER LINES
- SET STORED WATER TEMPERATURE TO 140 DEGREES

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SECTION 15200 - PLUMBING SPECIFICATIONS

- 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 Plumbing 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 plumbing Contractor shall make good any defect 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 acceptance.
- 1.4 EQUIPMENT MARKING AND PAINTING All marred or scratched equipment shall be touched up with same paint as that damaged. Steel and iron shall have grease, rust scale and dirt removed and left in a paintable condition. Painting will be done by General Contractor.
- 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 Plumbing 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. This includes all sanitary sewer tap fees and domestic water tap fees charged by local utilities.
- 1.6 TEMPORARY SERVICES The Plumbing Contractor shall furnish and install a temporary water service. A water outlet shall be provided at a location convenient for general use, and an outlet shall be provided on each floor of the building. The General Contractor will pay for the water used.
- 1.7 SYSTEM SCHEDULE Systems shall include, but not be limited to:  
Water Service and Supply System - connect as shown on the drawings  
Sanitary Sewer Piping - connect as shown on the drawings  
Waste and Vent Piping  
Plumbing Fixtures - water closets, lavatories, faucets, floor drains, sinks, etc.

- PART 2: MATERIALS AND METHODS
- 2.1 PRODUCTS See drawings for model numbers and specifications.
- 2.2 PLUMBING PLAN The Plumbing Contractor shall use the accompanying drawings as his working drawings except that deviations may be made only where interferences may arise. Such deviations shall be called to the attention of the Engineer and prior approval obtained before making any installation. In no case shall codes, rules or regulations heretofore referred to be violated.
- 2.3 DRAWINGS The Plumbing Contractor shall furnish "Shop Drawings" for all equipment supplied on this project. 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 Plumbing 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 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.
- 2.4 PIPE AND FITTINGS All fittings shall be cast brass or wrought copper fittings. All joints shall be made in accordance with instructions of the manufacturer of the fittings. Proper adapters and unions shall be used at connections to steel or iron pipe or equipment. Fittings for gas piping inside the building shall be black, malleable, threaded.
- 2.5 WATER SUPPLY SYSTEM System Description. The Plumbing Contractor shall install a complete system of cold water, hot water and hot water return as shown on the drawings. All fixtures shall have appropriate services connected. The complete system shall be pitched for drainage to low points and drain valves installed at each low point. All piping shall be run as high as possible. Check valves shall be installed where necessary to prevent hot water from backing up into cold water. All branches shall be valved at take-off from mains. Each branch to riser shall be provided with stop and waste. All vertical pipe shall be supported where it passes through floors with an approved clamping device. All risers shall be securely fastened to floors and wall studs with any change from vertical supported by brackets or hangers in it's new position. All piping shall be run true and straight and at right angles or parallel to walls. In all cases the exposed pipe must be run straight and plumb and in no case to be farther from walls and ceilings than is absolutely necessary. All exposed connections to fixtures shall be chrome plated brass. Wherever an exposed pipe passes through finished walls or ceilings it shall be provided with a chrome plated solid ring escutcheon. If pipe is covered, escutcheon shall fit over insulation. Connections to fixtures shall be made with unions so that a fixture may be easily removed and reset without making new joints. Provide and install easily accessible stops for all fixtures. All pipe shall be thoroughly cleaned of grease, oil and foreign material before installation. All cuts and threads shall be thoroughly cleaned and reamed to remove shoulders and burrs before installation. Wherever piping materials change from copper to a dissimilar metal, a dielectric union shall be installed.
- 2.6 SANITARY SEWER PIPING System Description. The Plumbing Contractor shall install a complete and continuous system of soil, waste and vent piping as shown on the drawings. All openings for connections must be closed with screw plugs or other means until used, all hand holes must be closed at once, and the pipe must be kept clean. Any earth or foreign matter that gets into the pipes must be removed by the contractor. Vent pipes shall extend at least 12" above the roof and extensions through the roof shall not be smaller than 3" in accordance with state code. Vents in outside walls are to be offset at least 12" inside of the wall before extending through the roof. Vents shall be offset in attic as indicated on the drawings before going through the roof to provide a minimum separation of 10'-0" from outside air intakes of furnaces. All horizontal waste and vent lines, branches, drains, etc., shall pitch at 1/8" per foot unless otherwise noted on the drawings. Waste lines shall pitch downward in the direction of flow. Vent lines shall pitch upward in the direction of venting. All junctions and changes in direction shall be made by the appropriate use of 45 degree Wyes, half Wyes, long sweep quarter bends, sixth eighth, sixteenth bends, combination Wye and eight bends, except that single and double Sanitary Tees may be used on vertical stacks and short quarter bends may be used where the change in direction of flow is from horizontal to vertical. Tees and crosses may be used in vent piping only. All vertical stacks (waste and vent) shall be supported wherever they pass through floors with an approved clamping device. All piping shall be run true and straight and at right angles or parallel to walls. Cleanouts shall be full size of the pipe up to 4" in diameter and not less than 4" for larger size pipe. In all cases the exposed pipe must be run straight and plumb and in no case to be farther from walls and ceilings than is absolutely necessary. Each and every fixture included in the contract must have a separate trap, except where noted otherwise on the drawings. Floor level cleanouts shall be set with cleanout rim and plug face absolutely flush with the finished floor or they shall be chiseled out and reset at this Contractors expense. Floor and Area Drains. The Plumbing Contractor shall furnish and install floor and area drains complete with traps and cleanouts as specified.
- 2.7 GAS PIPING SYSTEM System Description. The Plumbing Contractor shall furnish and install a complete system of gas distribution as shown on the drawings. The installation shall be included as a part of this Contract and shall be installed per the Codes. Dielectric unions shall be installed between the gas meter the piping in the building. Piping inside the building shall be run true and straight and shall be pitched to dirt pockets where required. The Plumbing Contractor shall make final connections to all equipment requiring gas service as shown on the drawings. All piping inside the building shall have screwed joints except that all gas piping 2 1/2" or larger shall have welded joints. Pipe shall be reamed to remove shoulders and burrs and all threads and the pipe cleaned before erection.
- 2.8 TESTS General. The Plumbing Contractor shall furnish all labor and material necessary to perform the following tests. Tests may be performed in sections of the Systems as they are installed so as not to hold up construction. The Engineer shall be notified whenever such tests are to be made and shall witness all tests. Water Supply System. The Water Supply System shall be filled with water and subjected to a pressure of at least 150 PSIG per section under test. Pressure shall be obtained by use of an air compressor. Pressure shall hold for a period of one (1) hour without any additional pressure being applied. Soil and Waste System. The Soil, Waste and Vent System shall be subjected to a hydrostatic test by plugging or closing all holes in portion of the system under test and filling with water to a point twelve (12) feet higher than the highest pipe under test. Water level shall hold for a minimum of 24 hours without change in the water level with no additional water being applied. The Engineer may elect to shorten the test period due to freezing weather conditions. It shall be his prerogative. Gas Piping System. The Gas Piping system shall be subjected to an air pressure test of at least 150 PSIG and shall hold pressure for a period of 24 hours without any additional pressure being applied. Pressure shall be obtained from an air compressor. Each joint shall be soap tested to test for leaks.

PART 3: EXECUTION

The contractor must lay out the various pipe lines, as shown on the drawings, and carefully go over the work in the building and report to the Michael R. Waldbieser Engineering & Consulting, Inc. any obstacles that may be in the way to prevent proper run of pipes or interfere with the layout of the system in any way. All pipes included in the plumbing system must be run in such a manner as to not interfere with HVAC ductwork or electrical outlets. All work on this project must be complete of all parts and supplies and hook-up 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. All trenching required for installation of products specified in this section of work shall be done by the Plumbing Contractor. Backfilling after trenching shall be done in accordance with the General Written Specifications by the Plumbing Contractor. After backfilling, the Plumbing Contractor shall finish grade the area disturbed by the trenching to match that of the site prior to trenching.

END OF SECTION

PERMIT & FEE NOTE:

PLUMBING CONTRACTOR SHALL INCLUDE IN HIS BASE BID ALL COSTS ASSOCIATED WITH OBTAINING DOMESTIC WATER SERVICE, SANITARY SEWER SERVICE AND GAS SERVICE. THIS SHALL INCLUDE ALL TAP FEES AND PERMITS.

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)

\_\_\_\_\_ COLD WATER LINE  
----- HOT WATER LINE  
\_\_\_\_\_ SANITARY VENT LINE  
\_\_\_\_\_ SANITARY DRAIN LINE  
— GAS — GAS — GAS LINE

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



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SCALE: NONE	DATE: 09-11-19	DRAWN BY: MRW	APPROVED BY: MRW
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PROJECT: 18-20

FILE: MEP #F

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