

PLUMBING SPECIFICATIONS

DIVISION 22 – PLUMBING SPECIFICATIONS

PART 1 – GENERAL

A. GENERAL

1. GENERAL CONDITIONS, SPECIAL REQUIREMENTS OR GENERAL REQUIREMENTS OF THE PROJECT SPECIFICATIONS MANUAL ARE MADE PART OF THIS SPECIFICATION AND HAVE THE SAME FORCE AND EFFECT AS IF COMPLETELY REPRODUCED.

2. DEFINITIONS: THE WORD "WORK" SHALL MEAN LABOR AND ANY INCIDENTAL ITEMS OR SERVICES NECESSARY FOR THE PROPER INSTALLATION AND OPERATION OF THE COMPLETE SYSTEMS NOTED ON THESE DRAWINGS AND ASSOCIATED SPECIFICATIONS. THE WORD "PROVIDE" SHALL MEAN FURNISH AND INSTALL AND MAKE FINAL CONNECTIONS AND LEAVE IN AN APPROVED COMPLETE OPERATING CONDITION.

3. WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST ADOPTED EDITIONS OF THE APPLICABLE IBC (INTERNATIONAL BUILDING CODE) 2018, IECC (INTERNATIONAL ENERGY CONSERVATION CODE) 2018, UMC (UNIFORM MECHANICAL CODE) 2018, UPC (UNIFORM PLUMBING CODE) 2018, NEC (NATIONAL ELECTRICAL CODE) 2017, IFC (INTERNATIONAL FIRE CODE) 2018, AND OTHER APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS; INCLUDING AMENDMENTS.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING FEES AND OBTAINING PERMITS AND INSPECTIONS REQUIRED FOR THE WORK.

5. INFORM THE OWNER OF ANY WORK OR MATERIALS WHICH VIOLATES ANY OF THE APPLICABLE LAWS AND REGULATIONS BEFORE PROCEEDING WITH THE WORK.

6. MATERIALS SPECIFIED BY REFERENCE TO A SPECIFIC STANDARD SUCH AS THE ASTM (AMERICAN SOCIETY OF TESTING MATERIALS), UL (UNDERWRITERS' LABORATORIES), ANSI (AMERICAN NATIONAL STANDARDS INSTITUTE), FS (FEDERAL SPECIFICATIONS), A TA (TRADE ASSOCIATION) STANDARD, OR OTHER SIMILAR STANDARD SHALL COMPLY WITH THE REQUIREMENTS OF THE LATEST REVISION THEREOF IN EFFECT AT THE TIME OF BIDDING, EXCEPT AS LIMITED BY TYPE, CLASS OR GRADE, OR MODIFIED IN SUCH REFERENCE.

7. ALL MATERIALS, EQUIPMENT AND APPARATUS SHALL BE UL LISTED OR LABELED FOR ALL ITEMS WHERE SUCH LISTING OR LABELING IS AVAILABLE. ITEMS WHICH ARE NOT UL LISTED OR LABELED WILL NOT BE ACCEPTED IF LISTED OR LABELED EQUIPMENT CAN BE OBTAINED FROM ANOTHER ACCEPTABLE MANUFACTURER. EACH COMPONENT OF ASSEMBLIES SHALL BE UL LISTED AS A "RECOGNIZED COMPONENT". COMPONENTS NOT SO LISTED OR MARKED WILL NOT BE ACCEPTED IF LISTED OR MARKED COMPONENTS ARE AVAILABLE FROM ANOTHER MANUFACTURER'S.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER FITTING OF MATERIAL INTO THE BUILDING AS INDICATED ON DRAWINGS, WITHOUT INTERFERENCE WITH OTHER WORK, AND SHALL MAKE REASONABLE MODIFICATIONS IN THE LAYOUTS NEEDED TO PREVENT CONFLICT WITH OTHER TRADES, TO PROVIDE ACCESS AND FOR THE PROPER EXECUTION OF THE WORK.

9. WORK SHALL BE COORDINATED WITH THE WORK OF OTHER TRADES INCLUDING CONTRACT DOCUMENTS, SHOP DRAWINGS, AND EXISTING SYSTEMS.

10.DD NOT SCALE DRAWINGS AS THEY ARE DIAGRAMMATIC AND SCHEMATIC IN NATURE. CONTRACTOR SHALL PROVIDE NECESSARY ITEMS TO COMPLETE THE WORK ACCORDING TO INDUSTRY STANDARDS. IT IS THE INTENT OF THE DRAWINGS AND SPECIFICATIONS TO CALL OUT FOR FINISHED WORK, TESTED AND READY FOR OPERATION. ARRANGEMENT OF EQUIPMENT AND ROUTING OF PIPES AND DUCTWORK INDICATED ON DRAWINGS SHALL BE ROUTED PLUMB AND AT RIGHT ANGLES. INSTALLATION OF SYSTEMS MAY REQUIRE MODIFICATION DUE TO UNFORESEEN CONDITIONS.

11.THE PLUMBING DETAILS SHALL BE CONSIDERED PART OF THE CONTRACT DOCUMENTS. THESE DETAILS SHALL BE INCORPORATED INTO THE ASSOCIATED WORK AND PROVIDE GENERAL GUIDANCE TO THE INSTALLATION INTENT WHETHER REFERENCED OR NOT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL NECESSARY COMPONENTS ENSURE A COMPLETE INSTALLATION IN ACCORDANCE WITH THE EQUIPMENT'S LISTING AND THE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.

12.CONTRACTOR SHALL SUBMIT A BID BASED ON MANUFACTURER NAMES LISTED UNLESS "OR EQUAL" IS INDICATED. SUBSTITUTION REQUESTS WILL BE REVIEWED BY THE ENGINEER, AND MUST BE SUBMITTED A MINIMUM OF FIVE (5) BUSINESS DAYS PRIOR TO BID DATE CLOSING. ACCEPTABILITY OF SUBSTITUTION WILL BE SOLELY DETERMINED BY THE OWNER.

13.THE BASE BUILDING FIRE PROTECTION REPORT AND TENANT IMPROVEMENT LETTERS ARE A PART OF THESE DOCUMENTS AND SHALL BE REVIEWED IN ITS ENTIRETY AND THE WORK INDICATED THEREIN IMPLEMENTED ACCORDINGLY.

14.WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER TO THE SATISFACTION OF THE ARCHITECT.

15.GUARANTEEN THE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP WHICH MAY OCCUR UNDER NORMAL USAGE FOR A PERIOD OF ONE (1) YEAR AFTER OWNER'S ACCEPTANCE. DEFECTS SHALL BE PROMPTLY REMEDIED WITHOUT COST TO THE OWNER. ALL MANUFACTURER'S WARRANTIES FOR EQUIPMENT EXTENDING BEYOND THE GUARANTEE PERIOD SHALL BE TURNED OVER TO THE OWNER.

16.SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. IF TESTS SHOW THAT WORK IS DEFECTIVE, CONTRACTOR SHALL MAKE CORRECTIONS NECESSARY AT NO COST TO OWNER.

17.IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO ESTABLISH A STANDARD OF QUALITY.

PLUMBING SPECIFICATIONS CONTINUE ON SHEET P0.01.

PLUMBING GENERAL NOTES

- DO NOT SCALE DRAWINGS. VERIFY DIMENSIONS IN FIELD PRIOR TO COMMENCEMENT OF WORK.
- ARCHITECTURAL DRAWINGS SHALL BE REVIEWED FOR PROJECT SCOPE AND AREA OF WORK.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT PLUMBING FIXTURE LOCATIONS, MOUNTING HEIGHTS, AND PLUMBING ROUGH-IN LOCATIONS.
- ITEM DESIGNATIONS INDICATED ARE FOR PURPOSES OF THESE DOCUMENTS ONLY. CONTRACTOR SHALL VERIFY WITH OWNER ACTUAL DESIGNATION INFORMATION TO BE PROVIDED FOR EACH ITEM OF PLUMBING EQUIPMENT PRIOR TO NAMEPLATE ORDER RELEASE.
- THE PLUMBING DETAILS SHALL BE INCORPORATED INTO THE ASSOCIATED WORK AND PROVIDE GENERAL GUIDANCE AS TO THE INSTALLATION INTENT WHETHER REFERENCED TO OR NOT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL NECESSARY COMPONENTS FOR A COMPLETE INSTALLATION AND ENSURE THAT ALL INSTALLATIONS ARE IN ACCORDANCE WITH THE EQUIPMENT'S LISTING AND MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTION.
- PROVIDE SHEET METAL DRAIN PAN UNDER PIPING WHERE PIPING OCCURS ABOVE ANY ELECTRICAL ROOMS, IT CENTER, OR ELECTRICAL SWITCH GEAR. PIPE 3/4" DRAIN FROM DRAIN PAN TO OVER NEAREST FLOOR SINK.
- SEISMIC RESTRAINTS SHALL BE PROVIDED PER THE LATEST ADOPTED STANDARD BUILDING CODE AND THE SMACNA SEISMIC RESTRAINT MANUAL GUIDELINES FOR MECHANICAL SYSTEMS. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF THE PROPOSED RESTRAINTS, STRUCTURAL ATTACHMENT METHODS, AND RESTRAINT LOCATIONS TO THE ARCHITECT FOR REVIEW. THE SUBMITTED DOCUMENTS SHALL BE PREPARED AND STAMPED BY A STRUCTURAL ENGINEER LICENSED IN THE PROJECT STATE.
- COORDINATE SPRINKLER/STANDPIPE DRAIN REQUIREMENTS AND LOCATIONS WITH FIRE PROTECTION DIVISION OF WORK.
- REFER TO CIVIL DRAWINGS FOR INVERT AT SITE UTILITY POINTS OF CONNECTION. PROVIDE OFFSET AND INCREASER FOR STORM DRAIN OR SEWER AS REQUIRED FOR CONNECTION TO CIVIL.
- PLUMBING RISERS, DRAIN STACKS, AND BRANCH PIPING OFF MAINS SHALL BE COORDINATED WITH MECHANICAL DUCTWORK, MECHANICAL PIPING, AND FIRE PROTECTION PIPING SYSTEMS.
- INSTALL PIPING HIGH AS POSSIBLE.
- INDUSTRIAL COLD WATER PIPING SERVING LANDSCAPE PLANTERS AND TREES SHALL BE SUPPLIED THROUGH BACKFLOW PREVENTER BY LANDSCAPE SECTION. REFER TO LANDSCAPE DRAWINGS FOR FINAL SUB-UP AND TERMINATION SERVING ALL PLANTERS AND STATIONS.
- PROVIDE A 6mm POLYETHYLENE SLEEVE EQUAL TO IPS WATER-TITE FOR COPPER DOMESTIC WATER PIPE BELOW SLAB.
- HOT AND COLD WATER SHUT-OFF VALVES AND HOT WATER RETURN THROTTLING VALVES SHALL BE LOCATED TO BE EASILY ACCESSED.
- PROVIDE WALL CLEANOUTS AT SINKS IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE ADOPTED STANDARD PLUMBING CODE.
- VENTS THROUGH ROOF SHALL BE MINIMUM 10'-0" FROM ANY OUTSIDE AIR INTAKES AND BUILDING OPENINGS.
- EQUIPMENT AND PIPING LOCATIONS SHOWN FROM BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY SIZE AND LOCATIONS PRIOR TO START OF WORK. IF SYSTEMS ARE NOT AS SHOWN IN DRAWINGS, REPORT DEVIATIONS TO ARCHITECT/ENGINEER WITHIN 48 HOURS OF DISCOVERY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND PATCHING OF DAMAGED ARCHITECTURAL COMPONENTS TO REMAIN DURING THE REMOVAL OF DESIGNATED SYSTEMS. COORDINATE REPAIR REQUIREMENTS WITH ARCHITECT.

PLUMBING SYMBOL LIST

ABBREV.	SYMBOL	DESCRIPTION
S OR W		SHEET NOTE REVISION NUMBER SOIL, WASTE OR SEWER BELOW GRADE OR FLOOR
G OR GW		SOIL, WASTE OR SEWER ABOVE GRADE OR FLOOR GREASE WASTE BELOW GRADE OR FLOOR
SD		GREASE WASTE ABOVE GRADE OR FLOOR STORM DRAIN BELOW GRADE OR FLOOR
OSD		STORM DRAIN ABOVE GRADE OR FLOOR OVERFLOW STORM DRAIN BELOW GRADE OR FLOOR
OSD		OVERFLOW STORM DRAIN ABOVE GRADE OR FLOOR
V		VENT
CW		COLD WATER
HW		HOT WATER
HWR		HOT WATER RETURN
PD		PUMPED DRAIN
D		DRAIN
PW		PUMPED WASTE
NPW		NON-POTABLE WATER
F		FIRE LINE
		PIPING BELOW GRADE WITH HEAT TRACE
		PIPING ABOVE GRADE WITH HEAT TRACE
HB		HOSE BIBB
CO		CLEANOUT
WCO		WALL CLEANOUT
AD, OAD		AREA DRAIN, OVERFLOW AREA DRAIN
FD		FLOOR DRAIN/ABOVE
FS		FLOOR SINK/ABOVE
PD		PLANTER DRAIN
DD		DECK DRAIN/ABOVE
		ROOF DRAIN, OVERFLOW ROOF DRAIN/ABOVE
VTR		VENT THROUGH ROOF
FSR		FIRE SPRINKLER RISER
SOV		SHUT-OFF VALVE
RD, ORD		BALANCING VALVE ASSEMBLY – SOV, CV AND BV
BV		BALANCING VALVE
CV		CHECK VALVE
PRV		PRESSURE REDUCING VALVE
MX		MIXING VALVE
		RELIEF VALVE
RHB		RECESSED HOSE BIBBS
		SOLENOID VALVE
WHA		WATER HAMMER ARRESTOR
		PIPE DOWN
		PIPE UP
		PIPE TEE UP
		PIPE TEE DOWN
		PIPE CAP
		ANCHOR
		GUIDE
		FLOW ARROW
POC		POINT OF CONNECTION TO EXISTING
POD		POINT OF DISCONNECTION FROM EXISTING
FM		FIRE RISER STANDPIPE
		FLOW METER
		EQUIPMENT TYPE
		EQUIPMENT NUMBER
		NOTE
		EQUIPMENT #
		PLAN/RISER
		SHEET

SYSTEM DISINFECTION NOTICE

DOMESTIC WATER PIPING SHALL BE DISINFECTED IN ACCORDANCE WITH AMERICAN WATER WORKS ASSOCIATION STANDARDS AWWA C651 FOR PIPING MAINS. ALL PIPING SHALL BE FLUSHED AND DISINFECTED UPON COMPLETION.

FIRE PROTECTION NOTICE

- CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE FIRE SPRINKLER SYSTEM DESIGN, LAYOUT, HYDRAULIC CALCULATIONS, PREPARATION OF SHOP DRAWINGS, FIELD INSTALLATION, COORDINATION AND COMPLETION IN ACCORDANCE WITH PROJECT REQUIREMENT AND APPLICABLE CODES AND STANDARDS.
- PENETRATION OF RATED ASSEMBLIES SHALL BE FIRE-STOP, FIRE STOPPING SHALL BE UL APPROVED MATERIAL.
- INSTALLATION OF THE SPRINKLER SYSTEM SHALL NOT BE STARTED UNTIL COMPLETE PLAN AND SPECIFICATIONS, INCLUDING WATER SUPPLY INFORMATION HAVE BEEN APPROVED BY LOCAL FIRE DEPT.
- THE WORK OF THE SECTION SHALL BE INSTALLED UNDER SUPERVSION AND CONTROL OF A LICENSED FIRE SPRINKLER ENGINEER/CONTRACTOR.
- APPLY AND PAY FOR ALL PERMITS, FEES, INSPECTIONS SHALL COMPLY WITH WITH THE REQUIREMENTS OF NFPA-13, NFPA-72 (FIRE ALARM/MONITORING) INSURANCE CARRIER, LOCAL FIRE DEPT. AND ALL LOCAL ORDINANCES

PLUMBING SHEET INDEX

2024-09-25 PERMIT	SHEET NUMBER	SHEET NAME
●	P0.00	PLUMBING COVER SHEET
●	P0.01	PLUMBING SPECIFICATIONS
●	P0.02	PLUMBING SCHEDULES
●	P0.03	PLUMBING SCHEDULES
●	P0.06	PLUMBING DIAGRAMS
●	P0.07	PLUMBING DIAGRAMS
●	P0.08	PLUMBING DIAGRAMS
●	PS.01	PLUMBING SITE PLAN
●	P1.01	DOMESTIC WATER & GAS PLAN – LEVEL 1 & 2
●	P1.02	DOMESTIC WATER & GAS PLAN – LEVEL 3 & 4
●	P1.03	DOMESTIC WATER & GAS PLAN – ROOF
●	P2.01	WASTE & VENT PLAN – LEVEL 1 & 2
●	P2.02	WASTE & VENT PLAN – LEVEL 3 & 4
●	P2.03	WASTE & VENT PLAN – ROOF
●	P5.00	PLUMBING ISOMETRICS
●	P5.01	PLUMBING ISOMETRICS
●	P5.02	PLUMBING ISOMETRICS
●	P6.01	PLUMBING ISOMETRICS
●	P6.02	PLUMBING ISOMETRICS

PLUMBING ABBREVIATIONS

AD	ACCESS DOOR / AREA DRAIN	WAX	MAXIMUM
ABF	ABOVE FINISH FLOOR	WBH	1000 BRITISH THERMAL UNITS PER HOUR
AP	ACCESS PANEL	MCA	MINIMUM CIRCUIT AMPS
AUTO	AUTOMATIC	MCC	MOTOR CONTROL CENTER
BFF	BELOW FINISHED FLOOR	MH	MANHOLE
BMS	BUILDING MANAGEMENT SYSTEM	MIN	MINIMUM
BOH	BACK OF HOUSE	MCCP	MAXIMUM OVER CURRENT PROTECTION
BOS	BOTTOM OF STEEL	NA	NOT APPLICABLE
BTU	BRITISH THERMAL UNIT	NEC	NATIONAL ELECTRICAL CODE
		NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
		NIC	NOT IN CONTRACT
*C	DEGREES CELSIUS	NPSHA	NET POSITIVE SUCTION HEAD AVAILABLE
CFH	CUBIC FEET PER HOUR	NPSHR	NET POSITIVE SUCTION HEAD REQUIRED
CFM	CUBIC FEET PER MINUTE	NPT	NATIONAL PIPE THREAD
CP	CHROME PLATED		
DC	DIRECT CURRENT	OFCI	OWNER FURNISHED/CONTRACTOR INSTALLED
DDC	DIRECT DIGITAL CONTROL		
DDCFP	DIRECT DIGITAL CONTROL FIELD PANEL	P	PUMP
DF	DRINKING FOUNTAIN	PA	PRESSURE AVAILABLE
DIA	DIAMETER	PD	PRESSURE DROP
DN	DOWN	PDI	PLUMBING DRAINAGE INSTITUTE
		PH	PHASE
E	EXISTING	POC	POINT OF CONNECTION
EFF	EFFICIENCY	POD	POINT OF DISCONNECT
EMCS	ENERGY MANAGEMENT CONTROL SYSTEM	POS	PROVIDE BY OTHER SECTION
ET	EXPANSION TANK	PRV	PRESSURE REDUCING VALVE
EWC	ELECTRIC WATER COOLER	PSI	POUND PER SQUARE INCH
		PSIA	POUND PER SQUARE INCH ABSOLUTE
		PSIG	POUND PER SQUARE INCH GAUGE
		RPM	REVOLUTIONS PER MINUTE
		S	SINK, SOIL
		SEER	SEASONAL ENERGY EFFICIENCY RATIO
		SH	SHOWER / STATIC HEAD
		SOV	SHUT-OFF VALVE
		SP	STATIC PRESSURE
		SOFT	SQUARE FEET
		SS	SERVICE SINK / STAINLESS STEEL
		T	TEMPERATURE
		TAB	TESTING AND BALANCING
		TDH	TOTAL DEVELOPED HEAD
		TEL	TOTAL EQUIVALENT LENGTH
		TOS	TOP OF STEEL
		TP	TRAP PRIMER
		TS	TEMPERING STATION
		TW	TEMPERED WATER
		TYP	TYPICAL
		U	URINAL
		UMC	UNIFORM MECHANICAL CODE
		UNO	UNLESS NOTED OTHERWISE
		UMC	UNIFORM PLUMBING CODE
		V	VENT, VOLTS
		W	WIDTH, WASTE, WATT
		WC	WATER CLOSET
		WFO	WATER FIXTURE UNITS
		WG	WATER GAUGE
		WH	WATER HEATER
		WP	WATER PRESSURE
		WPD	WATER PRESSURE DROP

Revisions

Consultant: **engin8**

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1000 AVENUE 66, SUITE 200
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Project: **EXTENDED STAY AMERICA PREMIER SUITES**

Drawing: **PLUMBING COVER SHEET**



Date: -

Drawn By: -

Checked By: -

Project No.: 24-118

Scale: AS SHOWN

Sheet No.: **P0.00**



EXTENDED STAY AMERICA PREMIER SUITES

DOMESTIC WATER & GAS PLAN - LEVEL 1 & 2

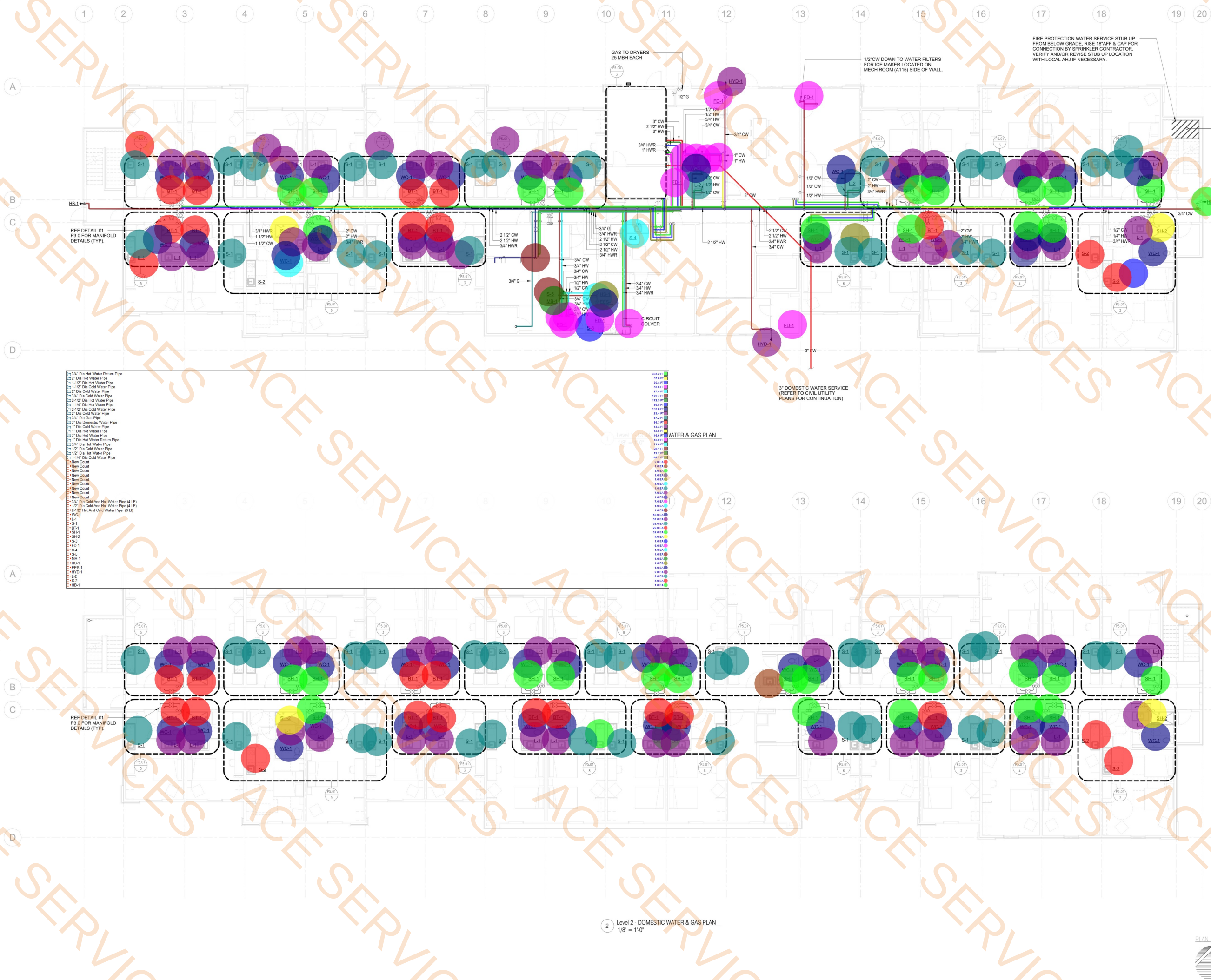
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Sheet No.:	

P1.01



HB-2

1.0 EA

3/4" UP FROM 4TH FLOOR TO ROOF

1 ROOF - DOMESTIC WATER & GAS PLAN
1/8" = 1'-0"

Revisions		

Consultant:



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SAN FRANCISCO, CA 94134
(415) 774-8800

Project: EXTENDED STAY AMERICA PREMIER SUITES

Drawing: DOMESTIC WATER & GAS PLAN - ROOF

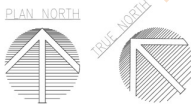


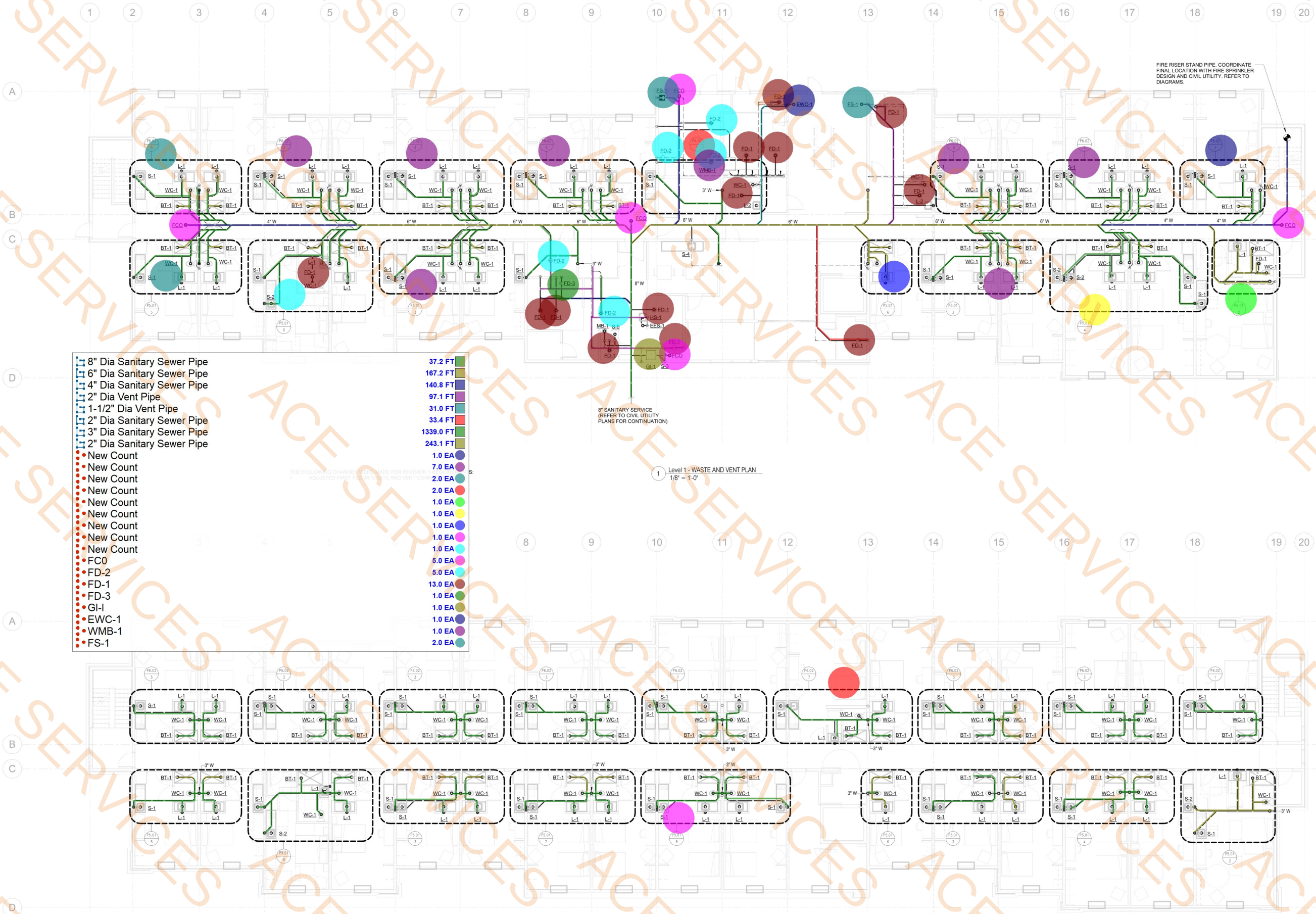
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Revisions	

Consultant:



WASTE & VENT PLAN
1/8" = 1'-0"

Project:

EXTENDED STAY AMERICA PREMIER SUITES

Drawing:

WASTE & VENT PLAN - LEVEL 1 & 2

Seal



DATE: 2024-09-25

Date:

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Author:

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24-118

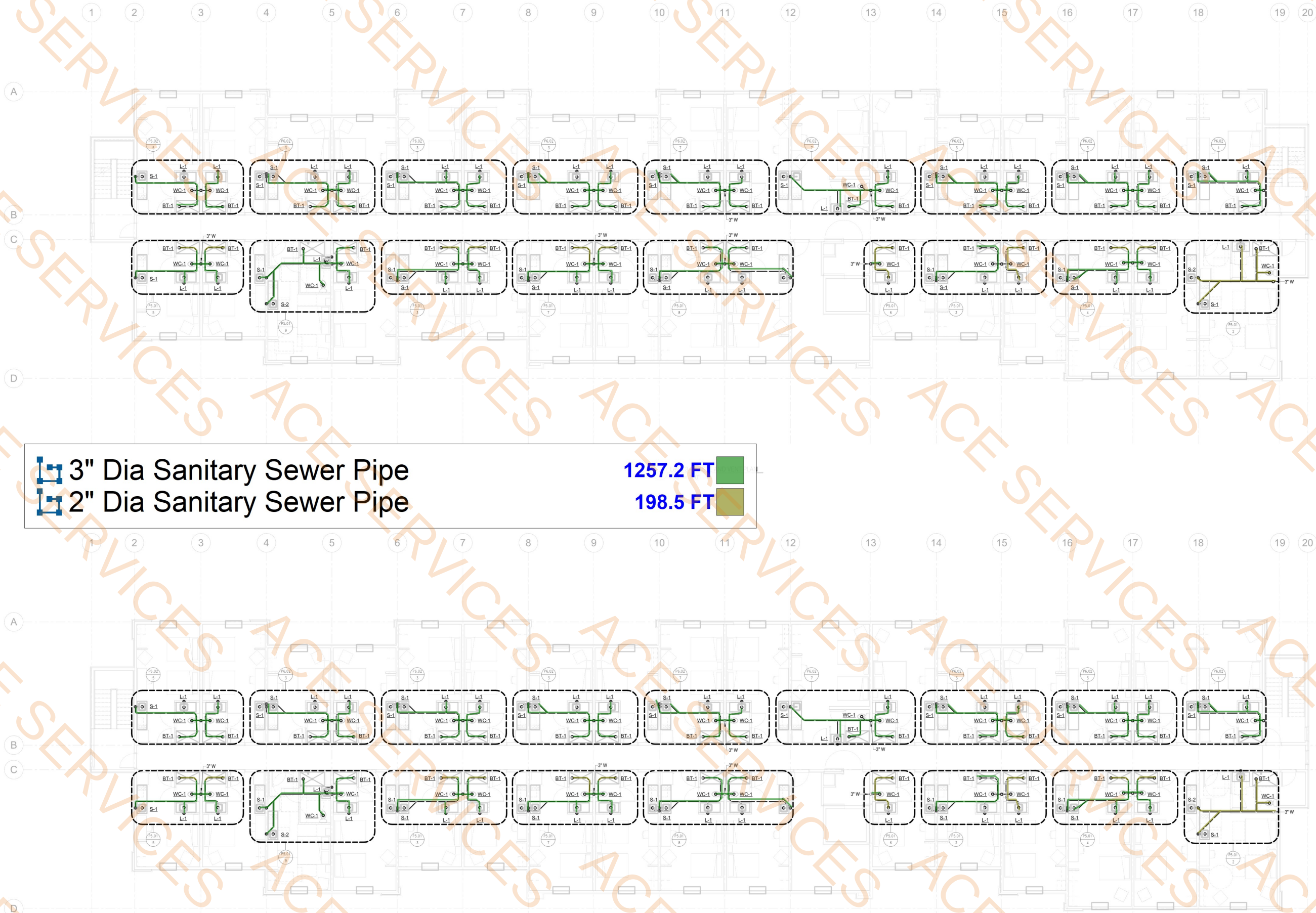
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P2.01





3" Dia Sanitary Sewer Pipe
2" Dia Sanitary Sewer Pipe

1257.2 FT
198.5 FT

2 Level 4 - WASTE AND VENT PLAN
1/8" = 1'-0"



Project: EXTENDED STAY AMERICA PREMIER SUITES

Drawing: WASTE & VENT PLAN - LEVEL 3 & 4



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Revisions		

Consultant:



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Project:

EXTENDED STAY AMERICA PREMIER SUITES

Drawing:

PLUMBING ISOMETRICS

Seal



DATE: 2024-09-25

Date:

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Checked By:

Project No.: 24-118

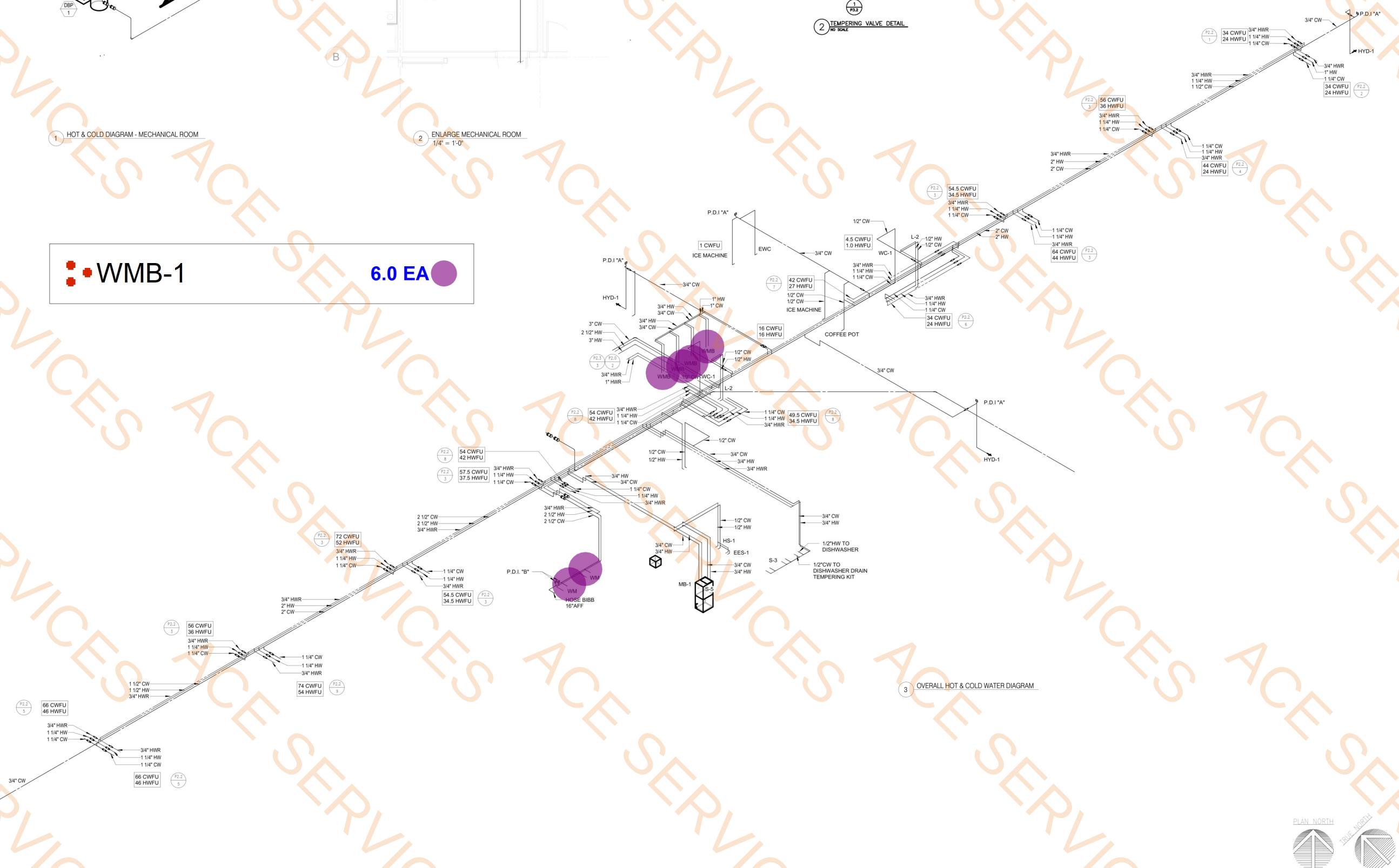
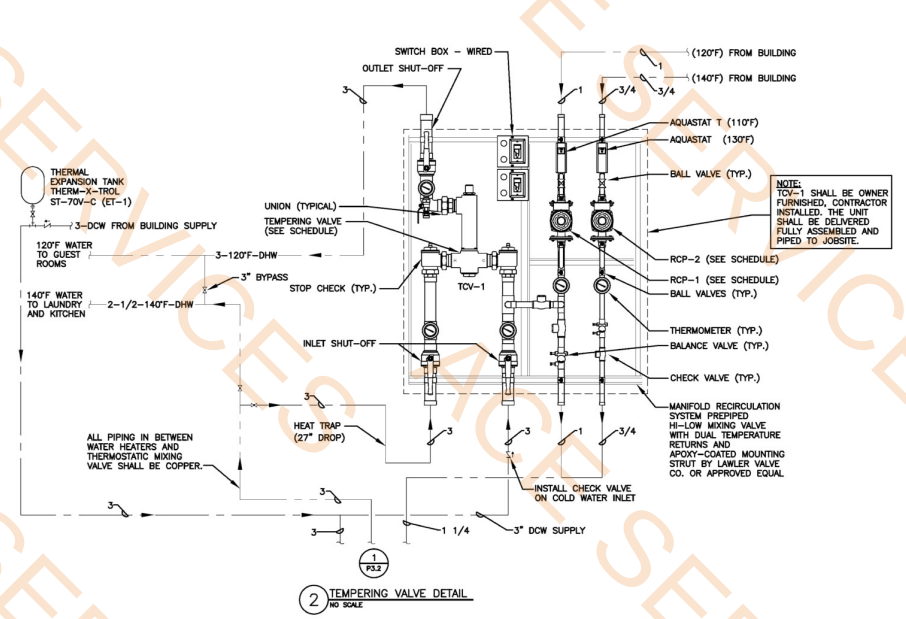
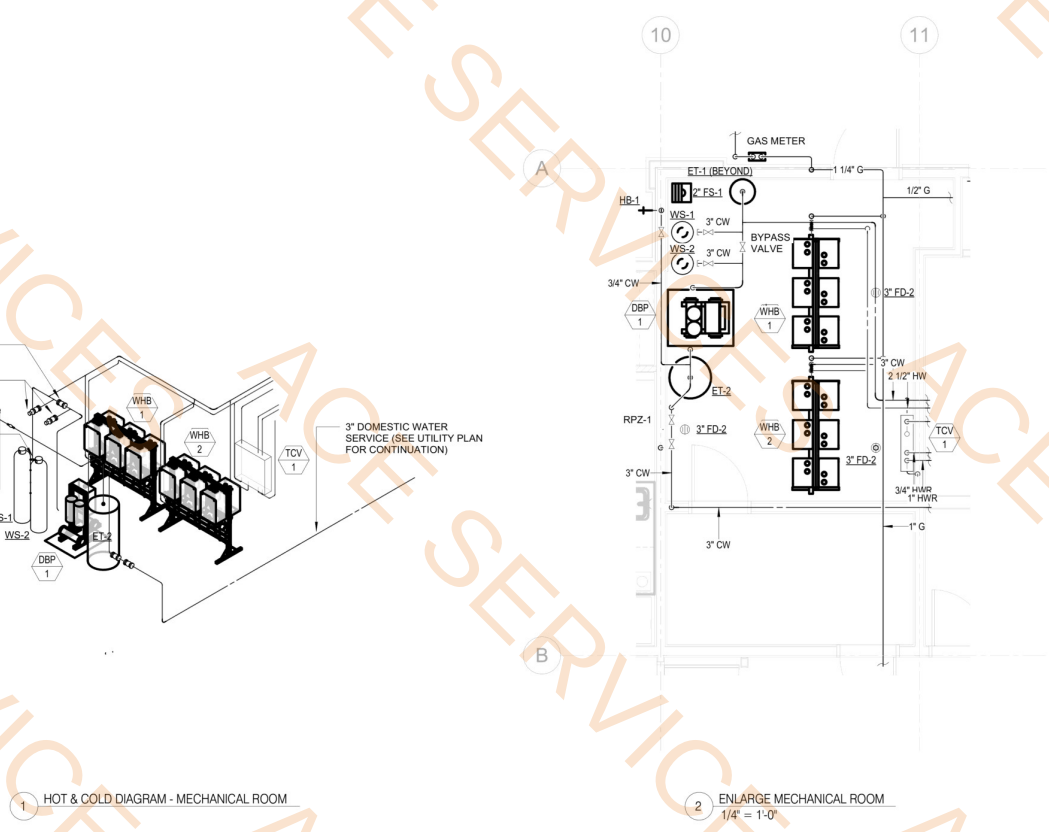
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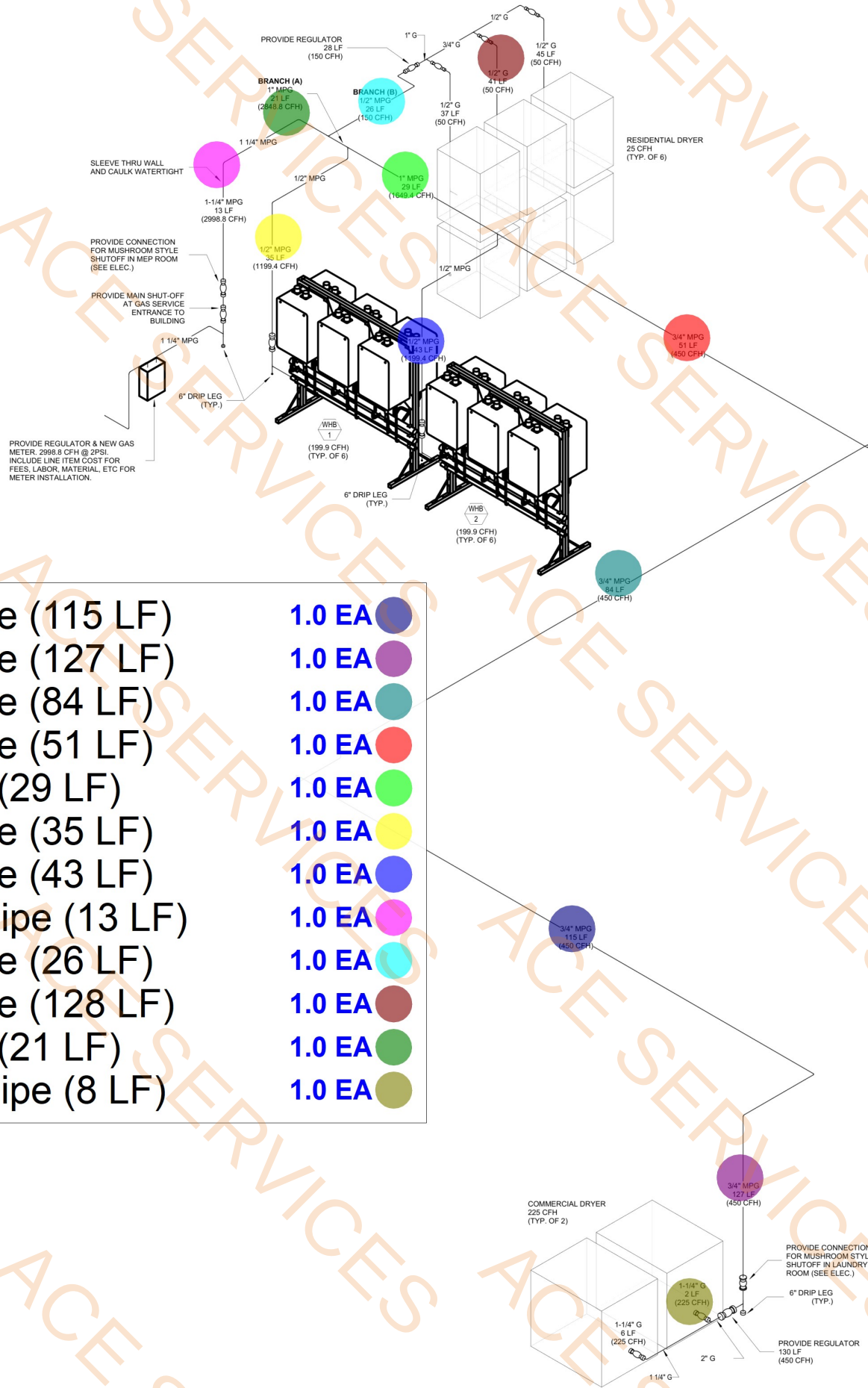
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WMB-1

6.0 EA





- 3/4" Dia MP Gas Pipe (115 LF)
- 3/4" Dia MP Gas Pipe (127 LF)
- 3/4" Dia MP Gas Pipe (84 LF)
- 3/4" Dia MP Gas Pipe (51 LF)
- 1" Dia MP Gas Pipe (29 LF)
- 1/2" Dia MP Gas Pipe (35 LF)
- 1/2" Dia MP Gas Pipe (43 LF)
- 1-1/4" Dia MP Gas Pipe (13 LF)
- 1/2" Dia MP Gas Pipe (26 LF)
- 1/2" Dia MP Gas Pipe (128 LF)
- 1" Dia MP Gas Pipe (21 LF)
- 1-1/4" Dia MP Gas Pipe (8 LF)

- 1.0 EA
- 1.0 EA
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- 1.0 EA
- 1.0 EA

NATURAL GAS EQUIPMENT/FIXTURE SCHEDULE		
ITEM	FIXTURE	CFH
WHB-1	WATER HEATER BANK	1199.4
WHB-2	WATER HEATER BANK	1199.4
CD-1	COMMERCIAL DRYER	225
CD-2	COMMERCIAL DRYER	225
RD-1	RESIDENTIAL DRYER	25
RD-2	RESIDENTIAL DRYER	25
RD-3	RESIDENTIAL DRYER	25
RD-4	RESIDENTIAL DRYER	25
RD-5	RESIDENTIAL DRYER	25
RD-6	RESIDENTIAL DRYER	25
TOTAL		2998.800000

BRANCH (A) GAS PIPE SIZING SUMMARY

2018 UPC TABLE 1215.2(1)
SCHEDULE 40 METALLIC PIPE
NATURAL GAS INLET PRESSURE: 2psi
TOTAL CONNECTED LOAD: 2848.8 CFH
TOTAL DEVELOPED LENGTH: 150 FT (SUM OF "LENGTHS")

MAX ALLOWED CFH PIPE SIZES BASED ON LENGTH:
1/2"(786), 3/4"(1590), 1"(2910), 1-1/4"(5960), 1-1/2"(8940), 2"(17200), 2-1/2"(27400), 3"(48500), 4"(98900)

BRANCH (B) GAS PIPE SIZING SUMMARY

2018 UPC TABLE 1215.2(1)
SCHEDULE 40 METALLIC PIPE
NATURAL GAS INLET PRESSURE: 2psi
TOTAL CONNECTED LOAD: 2848.8 CFH
TOTAL DEVELOPED LENGTH: 150 FT (SUM OF "LENGTHS")

MAX ALLOWED CFH PIPE SIZES BASED ON LENGTH:
1/2"(40), 3/4"(83), 1"(157), 1-1/4"(322), 1-1/2"(482), 2"(828), 2-1/2"(1480), 3"(2610), 4"(2610)

BRANCH (C) GAS PIPE SIZING SUMMARY

2018 UPC TABLE 1215.2(1)
SCHEDULE 40 METALLIC PIPE
NATURAL GAS INLET PRESSURE: 2psi
TOTAL CONNECTED LOAD: 150 CFH
TOTAL DEVELOPED LENGTH: 50 FT (SUM OF "LENGTHS")

MAX ALLOWED CFH PIPE SIZES BASED ON LENGTH:
1/2"(1430), 3/4"(2860), 1"(5260), 1-1/4"(10500), 1-1/2"(16200), 2"(31200), 2-1/2"(49700), 3"(87900), 4"(179000)

BRANCH (D) GAS PIPE SIZING SUMMARY

2018 UPC TABLE 1215.2(1)
SCHEDULE 40 METALLIC PIPE
NATURAL GAS INLET PRESSURE: 2psi
TOTAL CONNECTED LOAD: 150 CFH
TOTAL DEVELOPED LENGTH: 50 FT (SUM OF "LENGTHS")

MAX ALLOWED CFH PIPE SIZES BASED ON LENGTH:
1/2"(72), 3/4"(151), 1"(284), 1-1/4"(553), 1-1/2"(873), 2"(1680), 2-1/2"(2680), 3"(4740), 4"(9680)

Revisions	



Project: EXTENDED STAY AMERICA PREMIER SUITES

Drawing: PLUMBING ISOMETRICS



Date: -

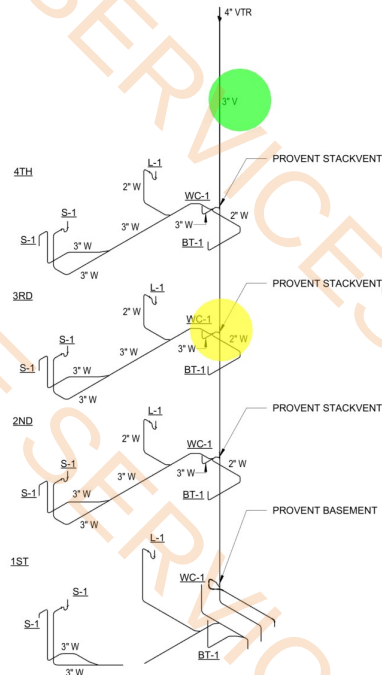
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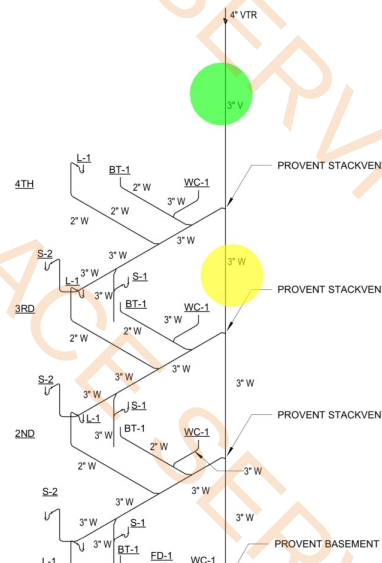
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Scale: AS SHOWN

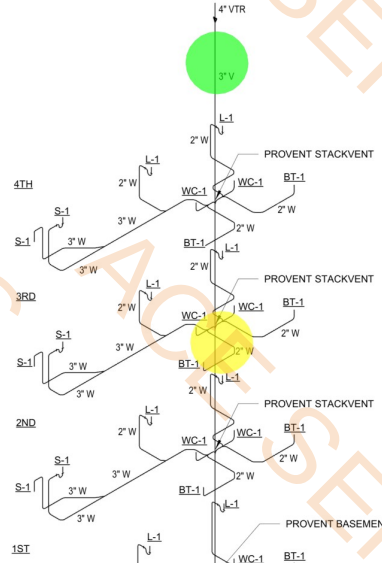
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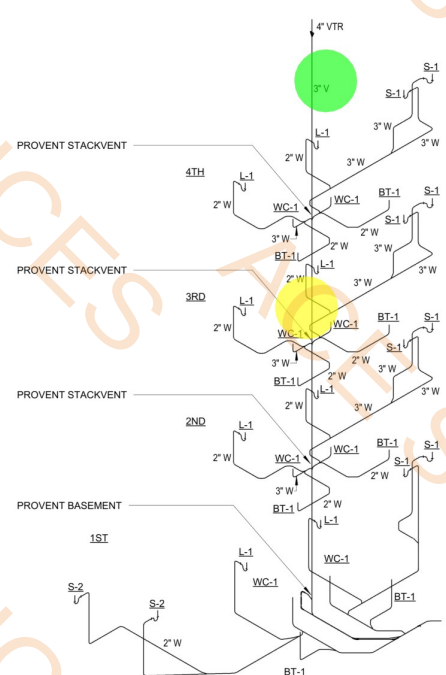
1 WASTE & VENT DIAGRAM



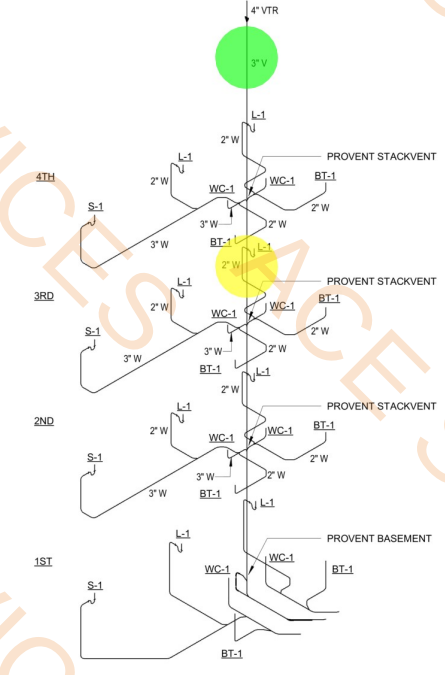
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3 WASTE & VENT DIAGRAM

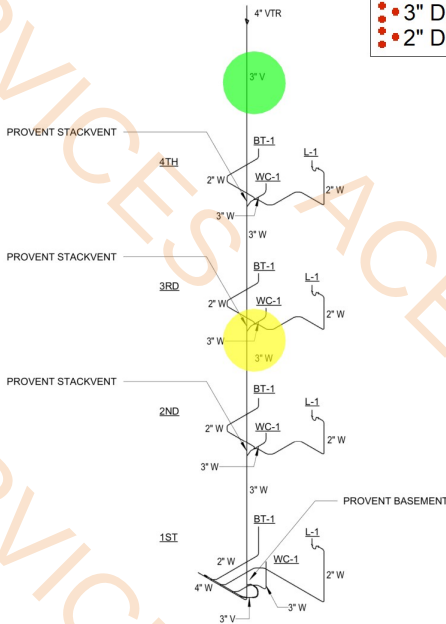


4 WASTE & VENT DIAGRAM

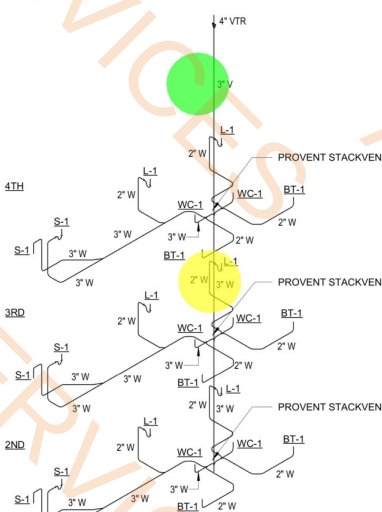


5 WASTE & VENT DIAGRAM

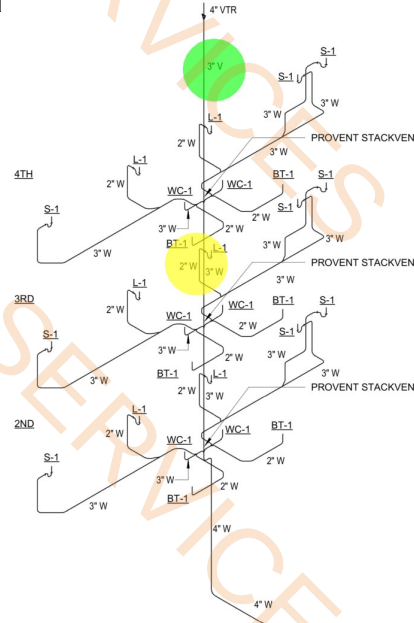
• 3" Dia Vent Pipe (15 LF)	1.0 EA
• 3" Dia Vent Pipe (15 LF)	1.0 EA
• 3" Dia Vent Pipe (15 LF)	1.0 EA
• 3" Dia Vent Pipe (15 LF)	1.0 EA
• 3" Dia Vent Pipe (15 LF)	1.0 EA
• 3" Dia Vent Pipe (15 LF)	1.0 EA
• 3" Dia Vent Pipe (15 LF)	1.0 EA
• 3" Dia Vent Pipe (15 LF)	1.0 EA
• 3" Dia Vent Pipe (15 LF)	1.0 EA
• 2" Dia Sanitary Sewer Pipe (30 LF)	1.0 EA
• 3" Dia Sanitary Sewer Pipe (30 LF)	1.0 EA
• 3" Dia Sanitary Sewer Pipe (30 LF)	1.0 EA
• 3" Dia Sanitary Sewer Pipe (30 LF)	1.0 EA
• 3" Dia Sanitary Sewer Pipe (30 LF)	1.0 EA
• 2" Dia Sanitary Sewer Pipe (30 LF)	1.0 EA
• 2" Dia Sanitary Sewer Pipe (30 LF)	1.0 EA
• 3" Dia Sanitary Sewer Pipe (30 LF)	1.0 EA
• 2" Dia Sanitary Sewer Pipe (30 LF)	1.0 EA



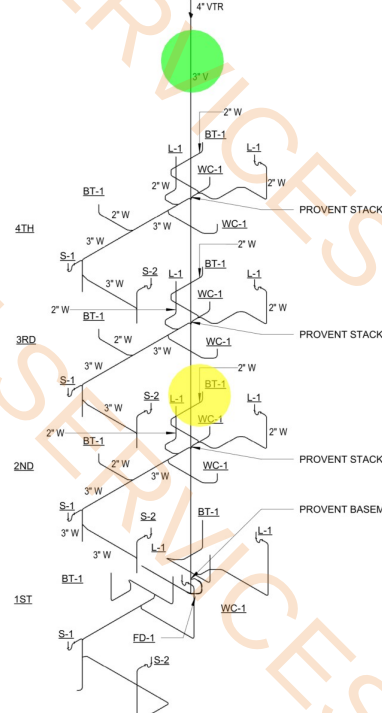
6 WASTE & VENT DIAGRAM



7 WASTE & VENT DIAGRAM



8 WASTE & VENT DIAGRAM



9 WASTE & VENT DIAGRAM



Project: EXTENDED STAY AMERICA PREMIER SUITES

Drawing: PLUMBING ISOMETRICS



Date:
Drawn By: Author
Checked By: Checker
Project No.: 24-118
Scale: AS SHOWN
Sheet No.: P6.02



Revisions	

Consultant:



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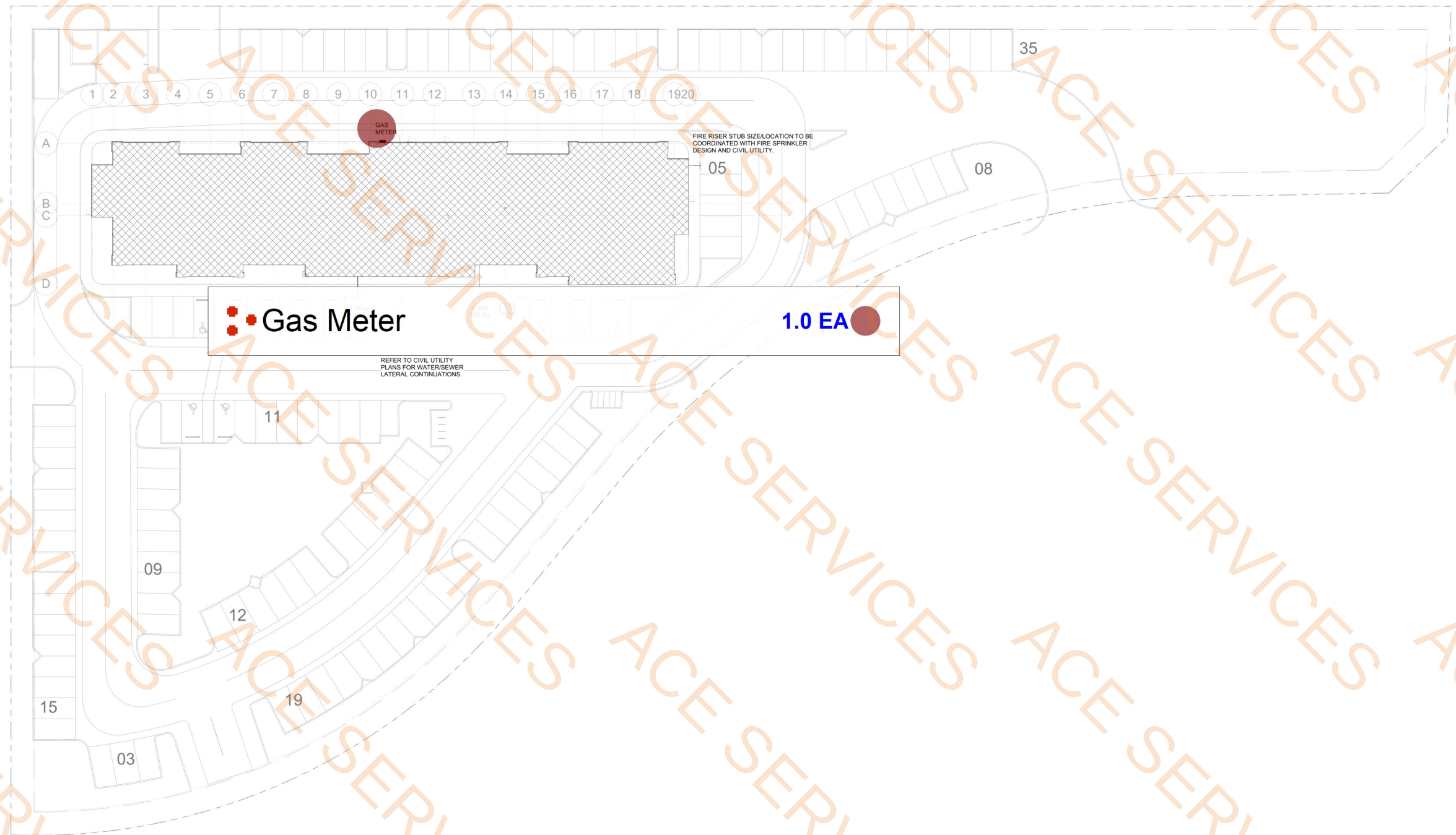
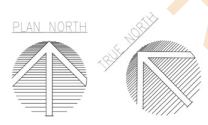
Project: EXTENDED STAY AMERICA PREMIER SUITES

Drawing: PLUMBING SITE PLAN



Seal
PROFESSIONAL ENGINEER
No. 39710
Exp. December 31, 2025
MECHANICAL
STATE OF CALIFORNIA
DATE: 2024-09-25

Date:	
Drawn By:	Checked By:
Project No.:	24-118
Scale:	AS SHOWN
Sheet No.:	PS.01



1 PLUMBING SITE PLAN
1" = 20'-0"