



1 SANITARY SEWER SECOND FLOOR PLAN
 SCALE: 1/8"=1'-0"

- KEYED NOTES:**
- ① 4" ROOF DRAIN RISER
 - ② 4" OVERFLOW DRAIN RISER
 - ③ 3" DOWNSPOUT
 - ④ 2" ROOF DRAIN RISER
 - ⑤ 2" OVERFLOW DRAIN RISER

- NOTES:**
- FOR GENERAL NOTES, PLUMBING FIXTURES AND SPECIFICATIONS, SEE PLUMBING DRAWING P1.0, P1.1.
 1. FOR DRAWING CLARITY, SEE THE VENT PIPING WITH SIZING ON RISER DIAGRAM P4.0, P4.1.
 2. ALL PENETRATIONS THROUGH FIRE WALL MUST BE SEALED TO MEET THE CRITERIA.
 3. FOR SCHEMATIC DIAGRAMS SEE PLUMBING DRAWING P4.0, P4.1.
 4. FOR GAS SCHEMATIC DIAGRAM SEE PLUMBING DRAWING P1.1
 5. ALL FLOOR DRAINS TO BE INSTALLED W/TRAP PRIMERS.
 6. PROVIDE DRAIN & VENT FOR SWIMMING POOL PER RECOMMENDATION OF POOL EQUIPMENT SUPPLIER.
 7. CONTRACTOR TO SUPPLY THE TEMPERED WATER LIMITING DEVICE FOR WATER HEATER SYSTEM
 8. VACUUM RELIEF VALVE INSTALLED IN THE COLD WATER SUPPLY LINE ABOVE THE TOP OF THE HEATER OR TANK, SHALL BE PROVIDED TO PREVENT SIPHONING OF ANY STORAGE WATER HEATER OR TANK.
 9. DRAIN SIZES FROM PLUMBING FIXTURES SHALL BE AS FOLLOWS:
 WATER CLOSETS- 4"
 BATHUB - 2"
 LAVATORY - 2"
 FLOOR DRAIN (GUESTROOM)- 2"
 FLOOR DRAIN (PUBLIC AREAS) - 3"
 FLOOR SINK - 3"

1. THE PLUMBING CONTRACTOR MUST PREPARE SHOP DRAWING TO COORDINATE WITH STRUCTURAL ENGINEER BEFORE INSTALLING AND GUARANTEE THE WATER, SEWER AND STORM LINE DO NOT RUNNING ALONG WITH THE GRADE BEAMS.
2. THE CONTRACTOR MUST PERFORM THE COLD/HOT WATER BALANCING TO ENSURE SUFFICIENT HOT WATER THAT DELIVERS TO EVERY GUESTROOM UNIT BEFORE CEILING TILE IS INSTALLED

DOWNSPOUT CALCULATION: (LOW ROOF)

	ROOF AREA (SQUARE FEET)	CAPACITY OF ROOF DRAINS (GPM)	NO. OF DOWNSPOUT	SERVED CAPACITY OF EACH DOWNSPOUT (GPM)
LOW ROOF AREA 1	1638	85.11	2	42.6

BASED ON 2015 IPC (APPENDIX B) AND TABLE 1106.2:
 - RAIN FALL IN INCHES PER HOUR: 5"(APPENDIX B)
 - 3" DOWNSPOUT IS SERVED FOR 87 GPM (TABLE 1106.2)
 => THE LARGEST CAPACITY FOR ONE 3" DOWNSPOUT IS 87 GPM.
 CHOOSE 2 DOWNSPOUTS 3"(D) FOR LOW ROOF AREA 1

ROOF DRAIN CALCULATION: (MAIN ROOF)

	ROOF AREA (SQUARE FEET)	CAPACITY OF ROOF DRAINS (GPM)	NO. OF RD	SERVED CAPACITY OF EACH ROOF DRAIN (GPM)
LOW ROOF AREA 2	116	6.03	1	6.0

BASED ON 2015 IPC (APPENDIX B) AND TABLE 1106.2:
 - RAIN FALL IN INCHES PER HOUR: 5"(APPENDIX B)
 - 2" ROOF DRAIN IS SERVED FOR 22 GPM WITH SLOPE 1% (TABLE 1106.2)
 => THE LARGEST CAPACITY FOR ONE ROOF DRAIN IS 22 GPM WITH SLOPE 1%. OVERFLOW DRAIN SHALL BE THE SAME SIZE AS R.D. AND SET 2" ABOVE R.D