

SYMBOL	DESCRIPTION
AV -	ACID VENT
DCW -	DOMESTIC COLD WATER
DHW —	DOMESTIC HOT WATER
	120° DOMESTIC HOT WATER
120°DHW	140° DOMESTIC HOT WATER
140°DHW	DOMESTIC HOT WATER RETURN
DHWR	120° DOMESTIC HOT WATER RETURN
120°DHWR	140° DOMESTIC HOT WATER RETURN
140°DHWF	OVERFLOW ROOF DRAIN LEADER
RDL	ROOF DRAIN LEADER
	STORM WATER
T	TEMPERED
	VENT
	WASTE
W	BALL VALVE
\	BALANCING VALVE
\	BACKWATER VALVE
_ & _\	BUTTERFLY VALVE
\	CHECK VALVE
<u> </u>	CONTROL VALVE
\	GATE VALVE
\	GLOBE VALVE
<u></u>	
\	OSY VALVE
	3-WAY VALVE
>	WATER HAMMER ARRESTER
<u> </u>	PRESSURE REGULATING VALVE
\	PIPE TURN UP
\	PIPE TURN DOWN
\	PIPE BOTTOM TAKE OFF
€	PIPE TOP TAKE OFF
	PIPE CAP OR PLUG
5	PIPE UNION
\	WYE STRAINER
├	REDUCER
\	UNION
5	WYE WITH COMBINATION 8TH BEND
\ \ \ \	SANITARY TEE
<u> </u>	WYE 45°

GENERAL NOTES - PLUMBING

- PROVIDE ALL MATERIALS AND LABOR NECESSARY FOR A COMPLETE PLUMBING SYSTEM. WARRANTY ALL WORK AND MATERIAL FOR A PERIOD OF AT LEAST ONE YEAR AFTER ACCEPTANCE BY OWNER.
- THE PLUMBING INSTALLATION SHALL COMPLY WITH THE 2018 EDITION OF THE NORTH CAROLINA PLUMBING CODE AND ALL AUTHORITIES HAVING JURISDICTION.
- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST **EDITIONS OF:**
- UNDERWRITERS LABORATORIES (UL) ALL STATE AND LOCAL CODES AND ORDINANCES
- DO NOT SCALE DRAWINGS. OBTAIN ROUGH-IN DIMENSIONS FROM ARCHITECTURAL DRAWINGS OR FROM MANUFACTURERS PRINTED INSTRUCTIONS AND RECOMMENDATIONS ONLY. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF ALL EQUIPMENT, CONNECTIONS AND LINES WITH THE OWNER PRIOR TO INSTALLATION OF ANY PIPING.
- THE CONTRACTOR SHALL COORDINATE PLUMBING WORK WITH ALL OTHER TRADES AND VERIFY DIMENSION AND CONDITIONS AT THE SITE PRIOR TO BEGINNING WORK. NO ADDITIONAL COSTS WILL BE ACCEPTED IF ATTRIBUTED TO FAILURE TO COORDINATE OR VERIFY.
- COORDINATE WITH AND OBTAIN PERMITS AND INSPECTIONS FROM THE LOCAL AUTHORITY HAVING JURISDICTION.
- PROVIDE OWNER WITH CERTIFICATES OF FINAL INSPECTION FROM THE LOCAL AUTHORITY HAVING JURISDICTION.
- WHENEVER THE WORD "PROVIDE" IS USED, IT SHALL MEAN FURNISH AND INSTALL COMPLETE AND READY FOR USE.
- UNLESS OTHERWISE SHOWN OR NOTED, ALL PIPING SHALL BE ROUTED CONCEALED IN WALLS, CHASES AND/OR ABOVE CEILINGS.
- 10. ALL SUSPENDED PIPING SHALL BE SUPPORTED FROM FLOOR AND/ OR ROOF STRUCTURAL MEMBERS. IN NO CASE SHALL PIPING BE SUSPENDED FROM FLOOR OR ROOF DECKING.
- 11. WHERE WORK PENETRATES FIRE RATED WALLS AND FLOORS. THE CONTRACTOR SHALL PROVIDE U.L. LISTED ASSEMBLIES THAT MEET OR EXCEED THE FIRE RATING LABEL SHOWN ON THE CONTRACT DRAWINGS.
- 12. PROVIDE DRAIN VALVES AT ALL LOW POINTS WHERE POSSIBLE IN HOT & COLD PIPING SYSTEMS. PROVIDE AN AUTOMATIC VENT-VALVE AT THE HIGH POINT IN HOT & COLD PIPING SYSTEMS, WATTS FV4M1 OR APPROVED EQUAL.
- 13. WATER PIPING INSTALLED UNDER FLOOR SLAB SHALL BE TYPE L SOFT COPPER TUBING WITH NO JOINTS BELOW THE SLAB. REQUIRED JOINTS BELOW SLAB SHALL UTILIZE SILVER SOLDER ONLY.
- 14. PROVIDE ALL VENT PENETRATIONS WHERE INDICATED ON FLOOR PLANS.
- COLLECT ALL VENTS ABOVE CEILING WHERE SHOWN. 15. PROVIDE CLEAN OUT AT BASE OF ALL SOIL & WASTE STACK, ROOF DRAIN
- 16. INSULATE ALL DRAINS AND DRAIN BODIES RECEIVING DISCHARGE FROM MECHANICAL EQUIPMENT. INSULATE ALL HORIZONTAL PIPE RECEIVING DISCHARGE FROM MECHANICAL UNITS.
- 17. UNLESS OTHERWISE INDICATED P.C. IS RESPONSIBLE FOR ALL CUTTING, CORE DRILLING AND PATCHING REQ'D TO INSTALL PLBG WORK.
- 18. UNLESS NOTED OTHERWISE, ALL HORIZONTALLY SOIL WASTE & STORM PIPING SHALL BE INSTALLED AT 1/8" PER FT. SLOPE.
- 19. ALL VALUE SHOWN IN PARENTHESIS INDICATE FIXTURE UNITS, ROOF
- DRAIN AREAS, ETC., AS APPLICABLE. 20. ALL ROOF DRAINS AND RELATED ROOF DRAIN LEADERS ARE SIZE FOR
- 4"/HR. RAINFALL PRIMARY AND 7.2"/HR. RAINFALL (SECONDARY). 21. DOMESTIC WATER PIPING SERVING BATTERY OF FIXTURES SHALL BE
- INSTALLED AS HEADERS, THE SAME SIZE AS THE RISER OR DROP TO CHASE. ROUGH-IN SIZES TO INDIVIDUAL FIXTURES SHALL BE AS INDICATED IN THE PLUMBING FIXTURE SCHEDULE.
- 22. ALL PIPING PENETRATIONS THRU FIRE RATED PARTITIONS OR FLOOR SHALL BE SEALED IN ACCORDANCE WITH U.L. LISTED SYSTEMS.
- 23. THE CONTRACTOR SHALL COORDINATE PLUMBING WORK WITH ALL STS WILL BE ACCEPTED

AD AREA DRAIN BF BALANCING FITTING BFP BACKFLOW PREVENTER VALVE BLV GLOBE VALVE BP BOOSTER PUMP BTV BUTTERFLY VALVE BV BALL VALVE CD CONDENSATE DRAIN CEB CONCRETE EQUIPMENT BASE CI CAST IRON CKV CHECK VALVE CO CLEANOUT CP CIRCULATING PUMP D DRAIN LINE DCW COLD WATER DF DRINKING FOUNTAIN DHW HOT WATER DHWR HOT WATER RETURN DN DOWN DSN DOWNSPOUT NOZZEL DSS DOWNSPOUT SHOE DT DRAIN TILE DWH DOMESTIC WATER HEATER ES EMERGENCY SHOWER / EYEWASH ESTV EMERGENCY SHOWER TEMPERING VALVE EWC ELECTRIC WATER COOLER EXT EXPANSION TANK FBO FURNISHED BY OWNER FCO FLOOR CLEANOUT FD FLOOR CLEANOUT FD FLOOR DRAIN FL FIRE LINE FS FLOOR SINK G NATURAL GAS GI GREASE INTERCEPTOR HB HOSE BIBB INV INVERT ELEVATION L LAVATORY LI LINT INTERCEPTOR		BBREVIATIONS - PLUMBING
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L LAVATORY	HB	HOSE BIBB
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	LI	LINT INTERCEPTOR

GENERAL NOTES - PLUMBING

- 24. ALL SANITARY PIPING TO BE RUN AT A SLOPE OF 1/4" PER FOOT (MINIMUM) UP TO 3" PIPE, AND 1/8" PER FOOT (MINIMUM) FOR LARGER DIAMETER PIPES UNLESS OTHERWISE NOTED.
- 25. ALL PIPING BELOW GRADE SHALL BE INSTALLED TO CLEAR FOOTINGS AND SHALL NOT BE INSTALLED WITHIN OR BELOW THE TRIANGULAR BEARING PLANE OF ALL FOOTINGS.
- 26. THE CONTRACTOR SHALL SEAL SLEEVES INSTALLED IN FIRE-RATED WALLS. CEILINGS AND FLOORS WITH FIRE-PROOF MATERIAL EQUAL TO THE RATING OF THE RESPECTIVE WALLS, CEILINGS AND FLOORS.
- 27. VENT PIPES PASSING THROUGH ROOF SHALL BE 4" DIAMETER (MINIMUM) AND EXTEND NOT LESS THAN 18" ABOVE THE ROOF, EXCEPT THAT WHERE A ROOF IS TO BE USED FOR ANY PURPOSE OTHER THAN WEATHER PROTECTION, THE VENT EXTENSIONS SHALL BE RUN AT LEAST 7 FEET ABOVE THE ROOF.
- 28. INSTALL PIPING AS STRAIGHT AND DIRECT AS POSSIBLE FORMING RIGHT ANGLE OR PARALLEL LINES WITH BUILDING WALLS, NEATLY SPACED, RISERS PLUMB AND TRUE, AND AVOID INTERFERENCE WITH OTHER
- 29. CLEANOUTS SHALL BE PROVIDED ON ALL PLUMBING DRAINAGE PIPING AT CHANGES OF DIRECTION GREATER THAN 45°. WHERE MORE THAN ONE CHANGE OF DIRECTION OCCURS IN A RUN OF PIPING, ONLY ONE CLEANOUT SHALL BE REQUIRED FOR EACH 40 FEET OF DEVELOPED LENGTH OF THE DRAINAGE PIPING.
- 30. ALL UNDERGROUND PIPE SLEEVES SHALL BE COORDINATED WITH SITE ENGINEER FOR SIZE, LOCATION AND ELEVATION.
- 31. UNDER NO CIRCUMSTANCES WILL THIS CONTRACTOR OR HIS WORKMEN BE PERMITTED TO USE ANY PART OF THE BUILDING AS A SHOP, EXCEPT PARTS DESIGNATED BY THE OWNER FOR SUCH PURPOSES.
- 32. UNNECESSARY NOISE SHALL BE AVOIDED AT ALL TIMES AND NECESSARY NOISE SHALL BE REDUCED TO A MINIMUM.
- 33. PROVIDE FIRE RESISTANT APPROVED SEALANT FOR PIPE PENETRATIONS OF FIRE RATED WALLS, PARTITIONS, AND FLOORS, AS REQUIRED BY THE NYS BUILDING CODE. REFER TO SPECIFICATIONS SECTION ON FIRE PROOFING.
- 34. ALL PLUMBING PIPING IS LOCATED AT CEILING UNLESS OTHERWISE NOTED. COORDINATE FLOOR PLANS WITH RISER DIAGRAMS FOR COMPLETE VALVE ARRANGEMENT.
- 35. CONTRACTOR SHALL CHECK AND VERIFY THE EXACT LOCATION OF ALL PIPE PENETRATIONS AND PIPE ELEVATIONS.
- 36. ALL INDICATED WORK SHALL BE PERFORMED BY THE PLUMBING CONTRACTOR UNLESS OTHERWISE NOTED.
- 37. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF ALL APPLICABLE CODES AND REGULATIONS INCLUDING BUT NOT LIMITED TO NATIONAL, CITY, STATE AND LOCAL ORDINANCES WHICH MAY BE IN EFFECT. ALL PLUMBING MATERIALS, INSTALLATION PROCEDURES AND SYSTEM LAYOUTS SHALL BE APPROVED BY ALL APPLICABLE CODE ENFORCEMENT AUTHORITIES HAVING JURISDICTION. AND IT SHALL BE THE PLUMBING CONTRACTOR'S RESPONSIBILITY TO PAY FOR ALL NECESSARY PERMITS AND APPROVALS FOR THIS INSTALLATION.
- 38. IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO REVIEW THESE PLANS AND SPECIFICATIONS, AS WELL AS THE RELATED HVAC. FIRE PROTECTION, ELECTRICAL, STRUCTURAL, ARCHITECTURAL, INTERIOR DECOR AND SITE ENGINEERING DRAWINGS TO BECOME FAMILIAR WITH THE FULL PROJECT SCOPE. IN ADDITION, THIS CONTRACTOR MUST COORDINATE WITH AN OWNER REPRESENTATIVE TO VISIT THE SITE AND FULLY UNDERSTAND ALL REQUIREMENTS WHICH MAY NOT BE SPECIFIED HEREIN AND WHICH THE OWNER MAY CONSIDER PART OF THIS CONTRACT. DURING THE COURSE OF CONSTRUCTION COORDINATION AND ACTUAL CONSTRUCTION, IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO WORK CLOSELY WITH ALL ACCOMPANYING CONTRACTORS AND TRADESMEN IN ORDER TO ENSURE A SMOOTH RUNNING AND CAREFULLY COORDINATED INSTALLATION.
- 39. ANY DISCREPANCIES OR INADEQUACIES WITHIN THESE BID DOCUMENTS OR BETWEEN THESE BID DOCUMENTS AND THE RELATED HVAC, FIRE PROTECTION, ELECTRICAL, STRUCTURAL, ARCHITECTURAL, INTERIOR DECOR AND SITE ENGINEERING DRAWINGS, OR BETWEEN THESE BID DOCUMENTS AND FIELD CONDITIONS MUST BE BROUGHT TO THE ATTENTION OF THE OWNER, ARCHITECT AND ENGINEER PRIOR TO BID

ABBREVIATIONS - PLUMBING

	LAUNDRY TUB
MSB	MOP SINK BASIN
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
OI	OIL INTERCEPTOR
	OUTSIDE SCREW & YOKE
OSW	OPEN SITE WASTE
PD	PUMP DISCHARGE
PRV	PRESSURE REDUCING VALVE
PT	PLASTER TRAP
PVC	POLYVINYL CHLORIDE
RD	ROOF DRAIN
SAN	SANITARY SEWER (EXTERIOR)
SCW	SOFT COLD WATER
SH	SHOWER
SK	SINK
SL	SECURITY LAVATORY
SP	SUMP PUMP
SS	SANITARY SEWER
ST	STORM SEWER / STORM DRAIN
STM	STEAM
SWC	SECURITY WATER CLOSET
SWC/L	SECURITY WATER CLOSET
SWH	STEAM WATER HEATER
TD	TRENCH DRAIN
TMV	THERMOSTATIC MIXING VALVE
TW	TEMPERED WATER
TYP	TYPICAL
UR	URINAL
V	VENT
VTR	VENT THROUGH ROOF
·W	WASTE
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WALL HYDRANT
WM	WATER METER
	TTT X F New T X STILLING I ben I X

WATER SOFTENER

YARD CLEANOUT

YCO

GENERAL NOTES - PLUMBING

- 40. IT IS CRITICAL THAT THE PLUMBING CONTRACTOR FIELD VERIFIES ALL EXISTING INVERT ELEVATIONS PRIOR TO BID SUBMISSION. IF ANY CONFLICTS EXIST BETWEEN THE NEW PLUMBING SYSTEMS AND THE EXISTING SITE LEVEL SYSTEMS, THEY SHOULD BE BROUGHT TO THE ATTENTION OF AN OWNER'S REPRESENTATIVE AND THE ENGINEER PRIOR TO BID SUBMISSION. EXTRA COMPENSATION WILL NOT BE GRANTED FOR ANY EXTRA WORK OR MATERIAL WHICH RESULTS FROM AN INABILITY TO MEET THE INVERTS OF THE EXISTING SITE LEVEL PIPING SYSTEMS.
- THE PLUMBING CONTRACTOR SHALL PROVIDE A COMPLETE SET OF RECORD "AS-BUILT" DRAWINGS INDICATING THE PRECISE LOCATION OF ALL SYSTEMS, EQUIPMENT CONCEALED OR EMBEDDED PIPING, PIPING CONNECTIONS AND ACCESS DOORS. THESE DRAWINGS SHALL ALSO INCLUDE ALL CHANGES AND DEVIATIONS FROM THE BID DOCUMENTS.

A NEAT ARRANGEMENT IN LOCATIONS WHICH ARE THE MOST

42. ALL EXPOSED HORIZONTAL AND VERTICAL PIPING SHALL BE INSTALLED IN

INCONSPICUOUS. VERTICAL DROPS SHALL BE KEPT TO AN ABSOLUTE

- MINIMUM AND THEIR FINAL LOCATIONS SHALL BE COORDINATED AND RUN WITHIN CHASES, WALLS, SOFFITS WITH OTHER MECHANICAL/ ELECTRICAL FEEDS. ALL SUCH LOCATIONS ARE TO BE REVIEWED WITH AN OWNER. REPRESENTATIVE AND ARCHITECT PRIOR TO INSTALLATION. ALL PLUMBING FIXTURES / APPLIANCES SHALL HAVE THEIR OWN
- INDEPENDENT SHUT- OFF VALVES, INSTALLED IN AN EASILY ACCESSIBLE AND CONVENIENT LOCATION. ALL DOMESTIC WATER BRANCH LINES SHALL HAVE THEIR OWN RESPECTIVE SHUT-OFF VALVES WHETHER OR NOT SHOWN ON THE DRAWINGS.
- 44. ALL EXPOSED PIPING BELOW LAVATORY'S DESIGNATED AS HANDICAPPED SHALL BE TOTALLY INSULATED.
- 45. ALL ROOF DRAIN SUMPS AND HORIZONTAL STORM DRAINAGE PIPING LOCATED ABOVE CEILINGS SHALL BE FULLY INSULATED INCLUDING ALL
- 46. ALL NON-DRAINAGE PIPING SHALL BE RUN LEVEL AND GENERALLY FREE OF TRAPS AND UNNECESSARY BENDS, ARRANGED TO CONFORM TO THE BUILDING REQUIREMENTS AND TO SUIT THE NECESSITIES OF CLEARANCES FOR OTHER MECHANICAL WORK. PROVIDE VALVED DRAINAGE OUTLETS IN AREAS OF PIPING WHICH WOULD BE UNDRAINABLE DURING MAINTENANCE OR REPAIRS.
- 47. ALL REQUIRED OFFSETS, RISES AND DROPS DUE TO POSSIBLE OBSTRUCTIONS OF PIPE RUNS ARE NOT NECESSARILY SHOWN. PLUMBING CONTRACTOR SHALL INCLUDE A CONTINGENCY IN HIS BID TO OFFSET ANY COST REQUIRED FOR ADDITIONAL FITTINGS AND LABOR THAT MAY BE REQUIRED.
- 48. PROVIDE CLEANOUTS AT THE BASE OF ALL SANITARY & STORM STACKS.
- 49. PIPING LAYOUTS ARE DIAGRAMMATIC AND INTENDED TO SHOW GENERAL ARRANGEMENT, SIZE, AND CAPACITY. ALL OFFSETS ARE NOT NECESSARILY SHOWN. THE PLUMBING CONTRACTOR SHALL ARRANGE AND COORDINATE THE WORK, FURNISH NECESSARY OFFSETS, VALVES, VENTS, AND FITTINGS TO AVOID CONFLICTS WITH OTHER MECHANICAL AND ELECTRICAL SERVICES AND WITH STRUCTURAL AND ARCHITECTURAL ELEMENTS.
- 50. MAKE SUBMITTALS OF SHOP DRAWINGS AS SPECIFIED.
- 51. PROVIDE REQUIRED SUPPORTS AND HANGERS FOR PIPING, FIXTURES AND EQUIPMENT, SO LOADING WILL NOT EXCEED ALLOWABLE LOADINGS OF STRUCTURE.
- 52. NO DEAD ENDS SHALL BE LEFT ON ANY PIPING UPON COMPLETION OF
- 53. ALL SYSTEMS SHALL BE LEFT IN PERFECT WORKING ORDER UPON COMPLETION OF ALL NEW WORK.
- 54. FIXTURES (GENERAL): "FIRST QUALITY", NEW COMPLETE WITH TRIMMINGS AND FITTINGS, INCLUDING FAUCETS, SUPPLIES, STOPS, TRAPS, TAILPIECES, WASTE PLUGS, CASINGS, HANGERS, PLATES, BRACKETS, ANCHORS, SUPPORTS, HARDWARE AND FASTENING DEVICES.
- 55. WHERE FIXTURES OR TRIM ARE DAMAGED OR BROKEN DURING THE INSTALLATION, THEY SHALL BE REPLACED WITH NEW FIXTURES.
- 56. EXAMINE ROUGH-IN WORK OF POTABLE WATER AND WASTE PIPING SYSTEMS TO VERIFY ACTUAL LOCATIONS OF PIPING CONNECTIONS PRIOR TO INSTALLING FIXTURES. CORRECT ANY INCORRECT LOCATION OF PIPING, AND OTHER UNSATISFACTORY CONDITIONS FOR INSTALLATION OF PLUMBING FIXTURES.
- 57. EXERCISE CARE IN HANDLING OF FIXTURES, TRIM, PIPE, AND FITTINGS. USE TOOLS DESIGNED TO PREVENT DAMAGE TO SURFACE FINISHES.

DRAWING LIST - PLUMBING

P-001 PLUMBING SYMBOLS, ABBREVIATIONS & NOTES P-111 FIRST AND SECOND FLOOR PLUMBING PLAN P-131 ROOF PLUMBING PLAN

GENERAL NOTES - PLUMBING

58. SET FIXTURES LEVEL AND UNIFORMLY, WITH CONNECTIONS AT RIGHT

ACCURATELY AND IN COORDINATION WITH SPACE AND FINISH

59. LOCATE WASTE OUTLETS AND WATER SUPPLIES AT CONSTANT

60. SUPPORT WALL HUNG FIXTURES RIGIDLY FROM BUILDING

CONNECTION OR ANY OTHER PART OF SYSTEM.

INSERT ITEMS.

MATERIALS.

ANGLES TO WALL AND PROPERLY CENTERED. LAY OUT ROUGHING

REQUIREMENTS. IF FIELD CUT-OUTS AND HOLES ARE REQUIRED, USE

PROPER CUTTING AND DRILLING TOOLS TO MAINTAIN INTEGRITY OF

FINISHED SURFACE. PROVIDE CUT-OUT TEMPLATES FOR COUNTERTOP

CONNECTION AND WATER SUPPLIES SPACED EQUALLY RIGHT TO LEFT.

CONSTRUCTION, NOT FROM PIPING, BY MEANS OF CONCEALED METAL

SUPPORTS TO WITH APPROVED CARRIER OR, 1/4" THICK METAL BACKUP

DRAINAGE PIPING GAS AND WATERTIGHT, WITH CLOSET COUPLING OR

INCLUDING BRACKETS, HANGERS, AND PLATES WITH PRIME COAT OF

UPON COMPLETION OF WORK, REMOVE PROTECTIVE COVERS AND

THOROUGHLY CLEAN SURFACES, TRAPS AND STRAINERS, CHECK ALL

ITEMS FOR PROPER OPERATION. TIGHTEN PACKINGS AND RETAINING

GUARANTEED BY CONTRACTOR, STATING THAT IMPERFECT SYSTEM

ALL PLUMBING EQUIPMENT HAS BEEN FULLY SERVICED AND LEFT IN

67. THIS SYMBOLS AND ABBREVIATIONS SHEET IS FOR THE PLUMBING

CONTRACTORS REFERENCE ONLY. NOT ALL SYMBOLS AND/OR

OPERATION AND ALL DEFECTS IN LABOR AND MATERIALS OF PLUMBING

WORK WILL BE REPAIRED WITHOUT COST TO OWNER FOR A PERIOD OF

ABBREVIATIONS MAY APPLY TO THIS PARTICULAR PROJECT. ADDITIONS

IMPLY INCLUSION AND/OR EXCLUSION OF ANY PARTICULAR ITEM FROM

CONTRACTORS ARE RESPONSIBLE FOR ALL CHANGES BROUGHT ABOUT

ARCHITECT/ENGINEER RESERVES THE RIGHT TO REJECT ITEMS BY OTHER

68. ALL PHYSICAL ATTRIBUTES OF EQUIPMENT AND DEVICES ARE BASED ON

THOSE LISTED IN THE EQUIPMENT SCHEDULES. THE RESPECTIVE

MANUFACTURERS IF THOSE ITEMS DO NOT MATCH THE PHYSICAL

69. PROVIDE ACCESS DOORS FOR VALVES, EQUIPMENT, AND MAINTENANCE

70. PLUMBING PIPING SHALL NOT RUN INTO OR OVER ROOMS INDICATED TO

71. GENERAL CONTRACTOR IS RESPONSIBLE FOR TESTING AND CORING OF

FIRESTOPPING OF NEW AND ABANDONED PENETRATIONS.

BE ELECTRICAL ROOMS, SERVER ROOMS, OR ROOMS HAVING EQUIPMENT

STRUCTURAL ENGINEERING CONSULTATION IF REBAR IS TO BE CUT

COORDINATION OF NEW PENETRATIONS TO PREVENT DAMAGE TO

REQUIREMENTS. COORDINATE LOCATION AND INSTALLATION WITH

BY USE OF ITEMS BY OTHER MANUFACTURERS. THE

ATTRIBUTES OF THE MANUFACTURERS LISTED.

OR OMISSIONS FROM THIS SYMBOLS AND ABBREVIATIONS SHEET DO NOT

ONE YEAR FROM DATE OF SUBSTANTIAL COMPLETION, AND STATING THAT

PLATE SECURED TO WALL CONSTRUCTION. DO NOT USE WIRE, NAILS, OR

61. SECURE FLOOR MOUNT SUPPORTS TO SLAB. SECURE WALL MOUNT

62. MAKE CONNECTION BETWEEN INTEGRAL TRAPPED FIXTURES AND

63. USE SPACING DEVICES TO SUPPORT AND STABILIZE WATER PIPING.

64. PAINT NON-CORROSIVE FERROUS METAL SURFACES OF FIXTURES,

66. SUPPLY TWO COPIES OF A WARRANTY COUNTERSIGNED AND

PROPER OPERATING CONDITION.

THE PROJECT.

OTHER TRADES.

PANELS IN THEM.

OR EXPOSED.

SLAB INCLUDING THE FOLLOWING:

STRUCTURAL SLAB WEBBING.

FLANGE, CLOSET RING GASKET AND NON-CORROSIVE BOLTING

OTHER MAKESHIFT DEVICES TO SECURE SUPPORTING MEMBERS.

HORIZONTAL LEVELS, WITH WASTE OUTLET CENTERED ON FIXTURE DRAIN

SUPPORTING MEMBERS DESIGNED TO CARRY WEIGHT OF FIXTURE UNDER

CONDITIONS OF UNUSUAL LOADING, WITH NO STRESS PLACED ON WASTE

P-601 SCHEDULES AND DIAGRAMS **TOTAL SHEETS: 4**



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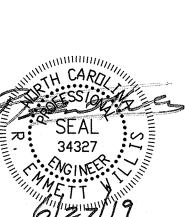
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COUNTY strong roots . new growth

Dewberry Dewberry Engineers Inc.

2610 WYCLIFF ROAD SUITE 410 RALEIGH, NC 27607 PHONE: 919.881.9939 FAX: 919.881.9923 NCBELS # F-0929



CONSTRUCTION DOCUMENTS

06.27.2019

REASON

PROJECT TEAM PRINCIPAL IN CHARGE

GAM ART, REW

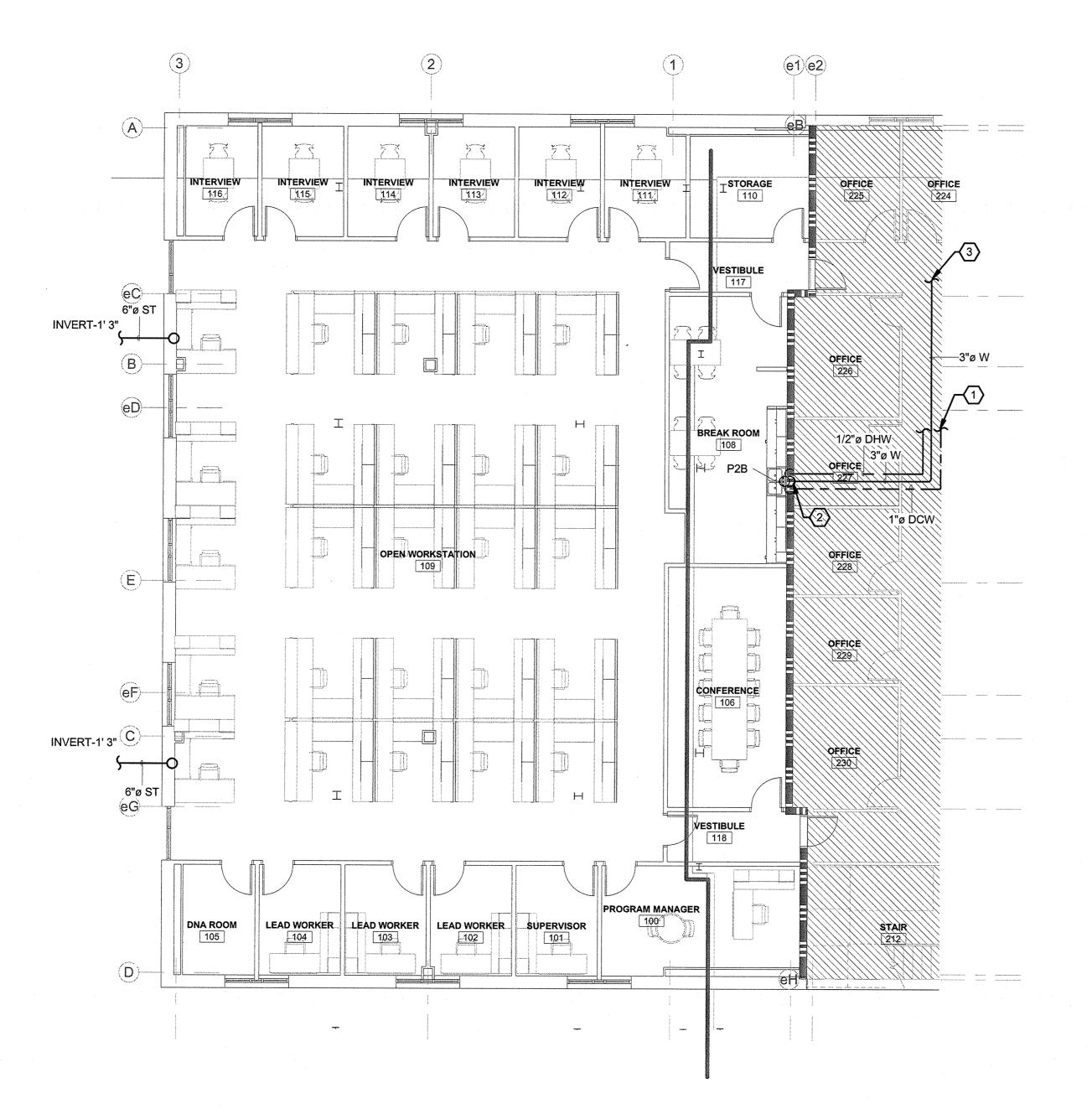
PROJECT MANAGER

HARNETT COUNTY DSS ADDITION

514806600

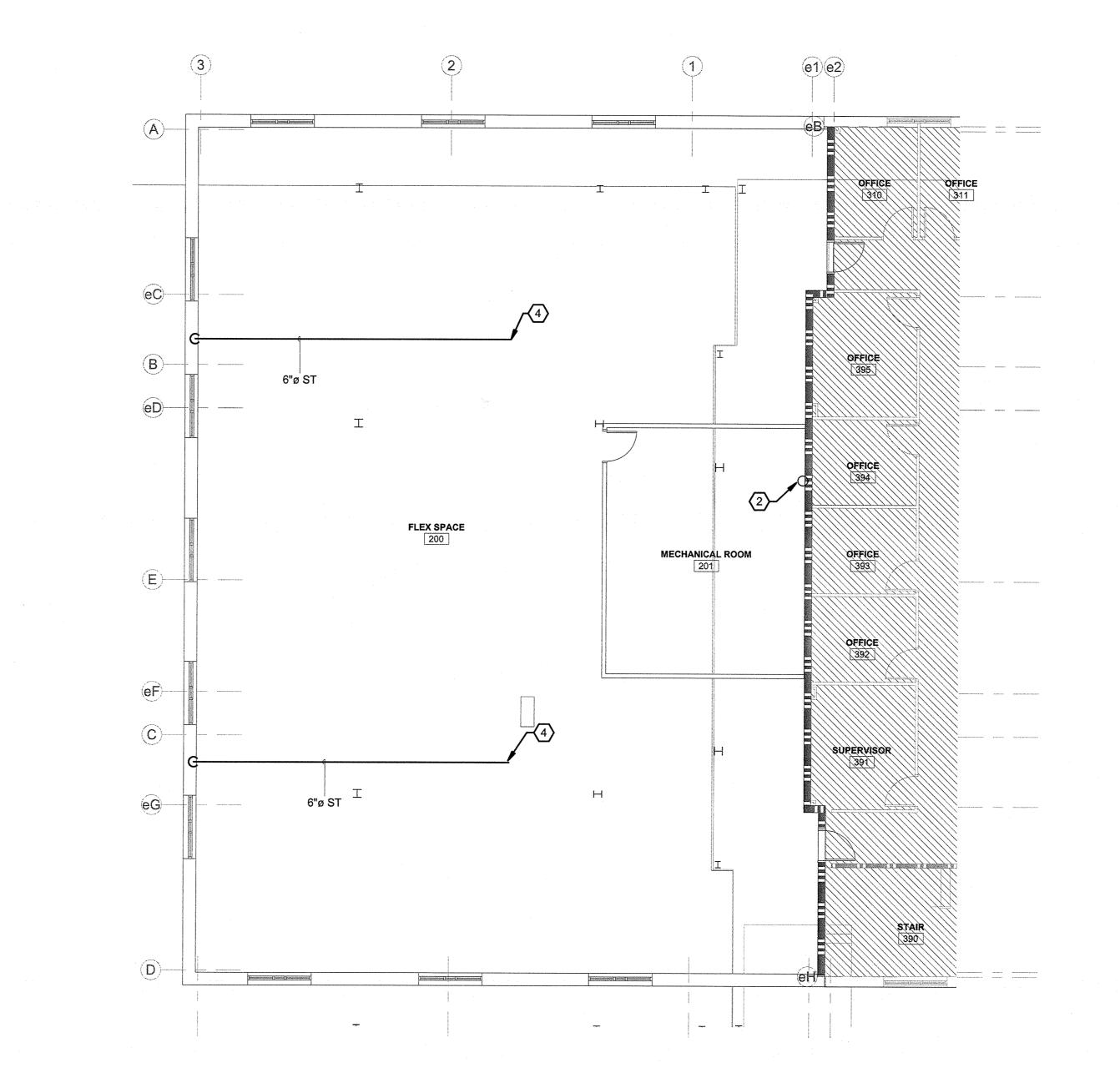
NOTES

PLUMBING SYMBOLS **ABBREVIATIONS &**



FIRST FLOOR PLUMBING PLAN

Scale: 1/8" = 1'-0"



SECOND FLOOR PLUMBING PLAN

Scale: 1/8" = 1'-0"

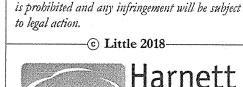
KEYED NOTES:

- 1 CONNECT TO EXISTING DOMESTIC WATER PIPING IN THE AREA.
- 2 2" VTR.
- 3 2" V UP.
- 4 6" UP TO RD.

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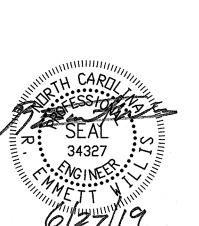
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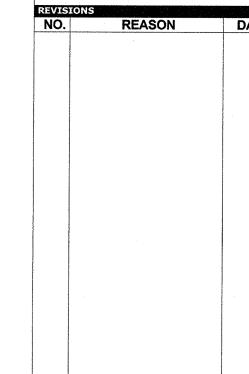


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O RATED WALLS & PARTITIONS

1-HOUR 2-HOUR 3-HOUR

0.5-HOUR 1-HOUR

FIRE PARTITION

SMOKE BARRIER

FIRE BARRIER

FIRE WALL

SMOKE PARTITION

0-HOUR 1-HOUR

2-HOUR

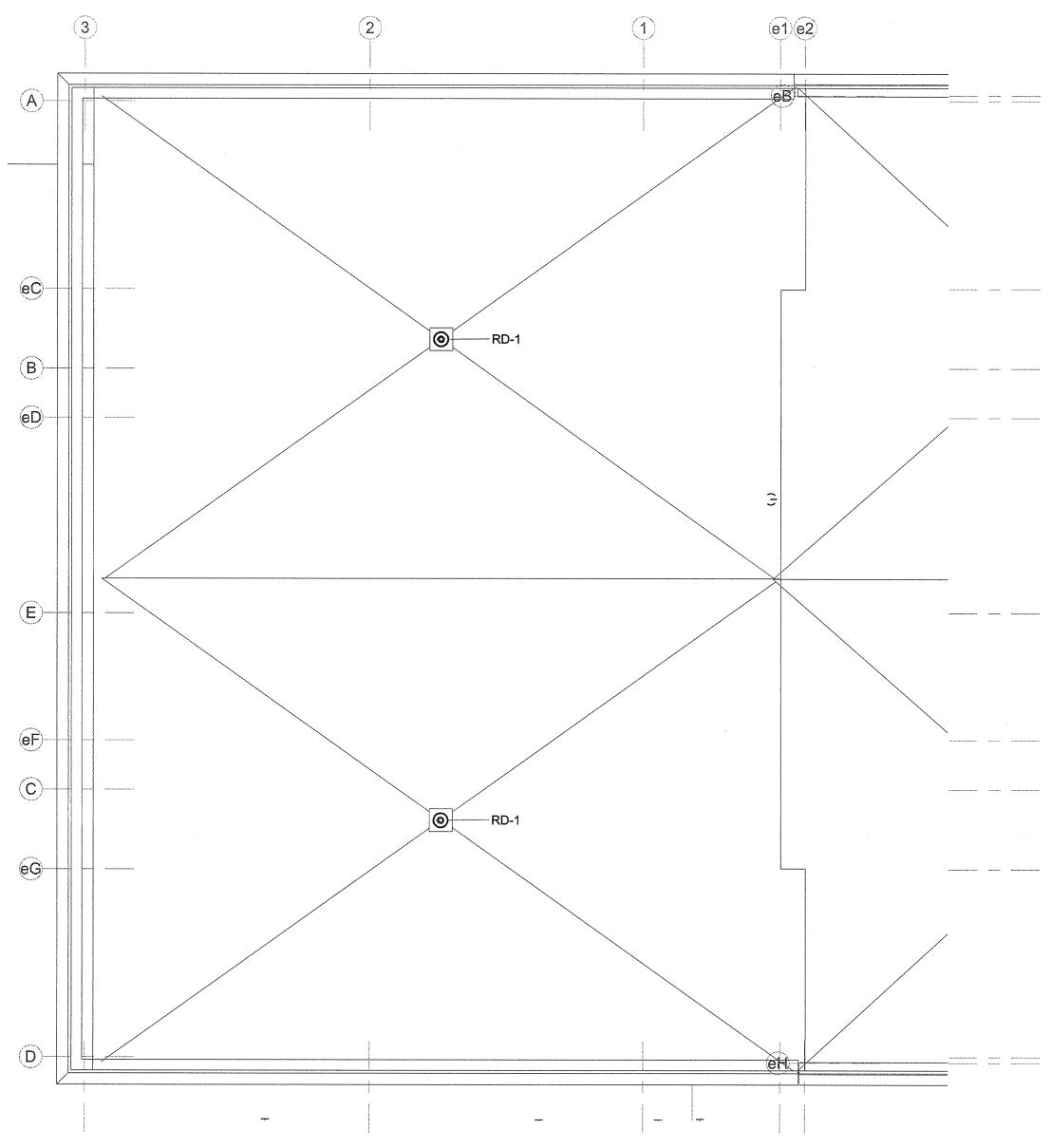
4-HOUR

HARNETT COUNTY DSS ADDITION FIRE & SMOKE BARRIER

514806600

FIRST AND SECOND FLOOR PLUMBING PLAN

P-111



ROOF PLUMBING PLAN
Scale: 1/8" = 1'-0"



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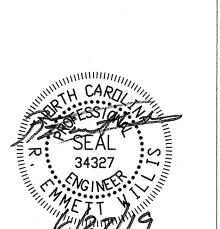
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CONSTRUCTION DOCUMENTS

PROJECT MANAGER
GAM

DESIGN TEAM
ART, REW
PROJECT NAME

HARNETT COUNTY DSS ADDITION

514806600 ROOF PLUMBING PLAN

P-131

	PLUMBING FIXTURE SCHEDULE							
MARK	DESCRIPTION	HW	CW	WASTE	VENT	REMARKS		
P2B	SINK - STAINLESS STEEL DOUBLE BOWL SELF RIMMING SINGLE LEVER FAUCET 1.5 GPM (ADA)	1/2"	1/2"	2"		FIXTURE: ELKAY NO. LRAD331960; 33"W x 19-1/2" FRONT TO BACK; 18 GA. 304 SS.; SELF RIMMING; DOUBLE BOWL NOM. 14"x14"x6"D BOWL(EA); UNDERCOATED; 3 HOLE; LK18 DRAIN (2 REQUIRED.) FAUCET: MOEN MODEL: 8711, M-DURA CHROME ONE LEVER HANDLE, ADA, 1.5 GPM INTERNAL FLOW CONTROL, VANDAL PROOF. TRIM: McGUIRE NO 8903 1-1/2"x2" CHROME PLATED HEAVY CAST BRASS ADJUSTABLE P-TRAP WITH CLEAN OUT PLUG. INSUL. COVER: TRUEBRO LAVGUARD INSULATING KIT INCLUDING TRAP, WALL BEND, TAIL PIECE AND SUPPLY COVERS.		

ROOF DRAIN SCHEDULE							
MARK	Manufacturer	Model	DESCRIPTION				
RD-1	ZURN	Z100	ZURN ROOF DRAIN Z100, SIZE AS NOTED, EPOXY COATED CAST IRON BODY WITH 15" DOME.				



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NCBELS # F-0929





CONSTRUCTION DOCUMENTS

1SSUE DATE
06.27.2019
REVISIONS
NO. REASON DAT

PROJECT TEAM
PRINCIPAL IN CHARGE
MBW
PROJECT MANAGER

PROJECT MANAGER

GAM

DESIGN TEAM

ART, REW

HARNETT COUNTY DSS ADDITION

PROJECT NO. 514806600

SCHEDULES AND DIAGRAMS

P-601