

ROOM TAG ROOM NUMBER-

REVISION NUMBER **REVISION TAG REVISION CLOUD**

KEYNOTE NUMBER ELEVATION AT -1' - 0" POINT INDICATED

PER SHEET -

INDICATES TRUE NORTH -

CONNECT NEW TO EXISTING

SPOT ELEVATION

KEYNOTE TAG

POINT OF DISCONNECTION

GENERAL NOTES - PLUMBING

- 1. 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.
- 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 LEADERS, ETC.
- 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.
- 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.

ABBREVIATIONS - PLUMBING

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 DRAIN
FL	FIRE LINE
FS	FLOOR SINK
G	NATURAL GAS
GI	GREASE INTERCEPTOR
HB	HOSE BIBB
INV	INVERT ELEVATION
L	LAVATORY

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.
- 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.
- 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.
- 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 CONSTRUCTION.

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.
- ALL UNDERGROUND PIPE SLEEVES SHALL BE COORDINATED WITH SITE ENGINEER FOR SIZE, LOCATION AND ELEVATION.
- 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. ALL PLUMBING PIPING IS LOCATED AT CEILING UNLESS OTHERWISE NOTED. COORDINATE FLOOR PLANS WITH RISER DIAGRAMS FOR COMPLETE VALVE ARRANGEMENT.
- 34. CONTRACTOR SHALL CHECK AND VERIFY THE EXACT LOCATION OF ALL PIPE PENETRATIONS AND PIPE ELEVATIONS.
- 35. ALL INDICATED WORK SHALL BE PERFORMED BY THE PLUMBING CONTRACTOR UNLESS OTHERWISE NOTED.
- 36. 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.
- 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.
- 38. 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 SUBMISSION.

ABBREVIATIONS - PLUMBING

LAUNDRY TUB MOP SINK BASIN NORMALLY CLOSED **NOT IN CONTRACT** OIL INTERCEPTOR

osw

PRV

SCW

STM

SWC/L

TW

TYP

OUTSIDE SCREW & YOKE

POLYVINYL CHLORIDE

SOFT COLD WATER

SECURITY LAVATORY

PRESSURE REDUCING VALVE

SANITARY SEWER (EXTERIOR)

STORM SEWER / STORM DRAIN

THERMOSTATIC MIXING VALVE

SECURITY WATER CLOSET

SECURITY WATER CLOSET STEAM WATER HEATER

OPEN SITE WASTE PUMP DISCHARGE

PLASTER TRAP

ROOF DRAIN

SHOWER SINK

SUMP PUMP SANITARY SEWER

TRENCH DRAIN

TYPICAL URINAL VENT

WASTE

WATER CLOSET WALL CLEANOUT WALL HYDRANT WATER METER WATER SOFTENER YARD CLEANOUT

TEMPERED WATER

VENT THROUGH ROOF

GENERAL NOTES - PLUMBING

- 40. 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.
- 41. ALL EXPOSED HORIZONTAL AND VERTICAL PIPING SHALL BE INSTALLED IN A NEAT ARRANGEMENT IN LOCATIONS WHICH ARE THE MOST 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.
- 42. 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.
- 43. ALL EXPOSED PIPING BELOW LAVATORY'S DESIGNATED AS HANDICAPPED SHALL BE TOTALLY INSULATED.
- 44. ALL ROOF DRAIN SUMPS AND HORIZONTAL STORM DRAINAGE PIPING LOCATED ABOVE CEILINGS SHALL BE FULLY INSULATED INCLUDING ALL FITTINGS.
- 45. 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.
- 46. 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
- THAT MAY BE REQUIRED. 47. PROVIDE CLEANOUTS AT THE BASE OF ALL SANITARY & STORM STACKS.

OFFSET ANY COST REQUIRED FOR ADDITIONAL FITTINGS AND LABOR

- 48. 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.
- 49. MAKE SUBMITTALS OF SHOP DRAWINGS AS SPECIFIED.
- PROVIDE REQUIRED SUPPORTS AND HANGERS FOR PIPING. FIXTURES AND EQUIPMENT, SO LOADING WILL NOT EXCEED ALLOWABLE LOADINGS OF STRUCTURE.
- 51. NO DEAD ENDS SHALL BE LEFT ON ANY PIPING UPON COMPLETION OF
- 52. ALL SYSTEMS SHALL BE LEFT IN PERFECT WORKING ORDER UPON COMPLETION OF ALL NEW WORK.
- 53. 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.
- WHERE FIXTURES OR TRIM ARE DAMAGED OR BROKEN DURING THE INSTALLATION, THEY SHALL BE REPLACED WITH NEW FIXTURES.
- 55. 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.
- 56. EXERCISE CARE IN HANDLING OF FIXTURES, TRIM, PIPE, AND FITTINGS. USE TOOLS DESIGNED TO PREVENT DAMAGE TO SURFACE FINISHES.

DRAWING LIST - PLUMBING

- PLUMBING SYMBOLS, ABBREVIATIONS & NOTES PLUMBING UNDERSLAB PLAN FIRST FLOOR PLUMBING PLAN
- P-121 SECOND FLOOR PLUMBING PLAN P-131 ROOF PLUMBING PLAN
- LARGE SCALE FLOOR PLANS P-402 LARGE SCALE FLOOR PLANS P-501 DETAILS
- P-601 SCHEDULES AND DIAGRAMS P-901 RISER DIAGRAMS
- P-902 RISER DIAGRAMS
- TOTAL SHEETS: 11

GENERAL NOTES - PLUMBING

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

ACCURATELY AND IN COORDINATION WITH SPACE AND FINISH

58. LOCATE WASTE OUTLETS AND WATER SUPPLIES AT CONSTANT

59. SUPPORT WALL HUNG FIXTURES RIGIDLY FROM BUILDING

CONNECTION OR ANY OTHER PART OF SYSTEM.

MATERIALS.

DEVICES.

THE PROJECT.

OTHER TRADES.

GPR TESTING

OR EXPOSED.

ANGLES TO WALL AND PROPERLY CENTERED. LAY OUT ROUGHING

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

FINISHED SURFACE. PROVIDE CUT-OUT TEMPLATES FOR COUNTERTOP

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

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

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

66. 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

67. 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

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

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

70. 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.

SLAB INCLUDING THE FOLLOWING:

STRUCTURAL SLAB WEBBING.

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

CONNECTION AND WATER SUPPLIES SPACED EQUALLY RIGHT TO LEFT.

CONSTRUCTION, NOT FROM PIPING, BY MEANS OF CONCEALED METAL

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

OTHER MAKESHIFT DEVICES TO SECURE SUPPORTING MEMBERS.

FLANGE, CLOSET RING GASKET AND NON-CORROSIVE BOLTING

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

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

64. UPON COMPLETION OF WORK, REMOVE PROTECTIVE COVERS AND

65. SUPPLY TWO COPIES OF A WARRANTY COUNTERSIGNED AND

PROPER OPERATING CONDITION.

61. MAKE CONNECTION BETWEEN INTEGRAL TRAPPED FIXTURES AND

PROPER CUTTING AND DRILLING TOOLS TO MAINTAIN INTEGRITY OF

SYMBOL	DESCRIPTION
5	ACID VENT
S → DCW	DOMESTIC COLD WATER
S—DHW —	DOMESTIC HOT WATER
√ 120°DHW	120° DOMESTIC HOT WATER
5 — 140°DHW	140° DOMESTIC HOT WATER
→ DHWR	DOMESTIC HOT WATER RETURN
5—————————————————————————————————————	120° DOMESTIC HOT WATER RETURN
<u> </u>	140° DOMESTIC HOT WATER RETURN
S-ORDL-S	OVERFLOW ROOF DRAIN LEADER
	ROOF DRAIN LEADER
Ş—_ST———	STORM WATER
<u></u>	TEMPERED
5v	VENT
Ş	WASTE
\	BALL VALVE
\	BALANCING VALVE
<u></u>	BACKWATER VALVE
<u></u>	BUTTERFLY VALVE
├	CHECK VALVE
├── ऴ ──	CONTROL VALVE
├──	GATE VALVE
├ ─── 	GLOBE VALVE
Ş —♠}	OSY VALVE
<u></u>	3-WAY VALVE
→	WATER HAMMER ARRESTER
	PRESSURE REGULATING VALVE
\rightarrow	PIPE TURN UP
∫ >	PIPE TURN DOWN
<u>} </u>	PIPE BOTTOM TAKE OFF
<u></u>	PIPE TOP TAKE OFF
<u> </u>	PIPE CAP OR PLUG
5-11-5	PIPE UNION
5-14-5	WYE STRAINER
├	REDUCER
S	UNION
5-5-5	WYE WITH COMBINATION 8TH BEND
	SANITARY TEE
\ <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>	WYE 45°



PLUMBING PIPING SYMBOLS

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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

ISSUE DATE 06.27.2019

REASON

PROJECT TEAM PRINCIPAL IN CHARGE

PROJECT MANAGER

GAM ART. REW

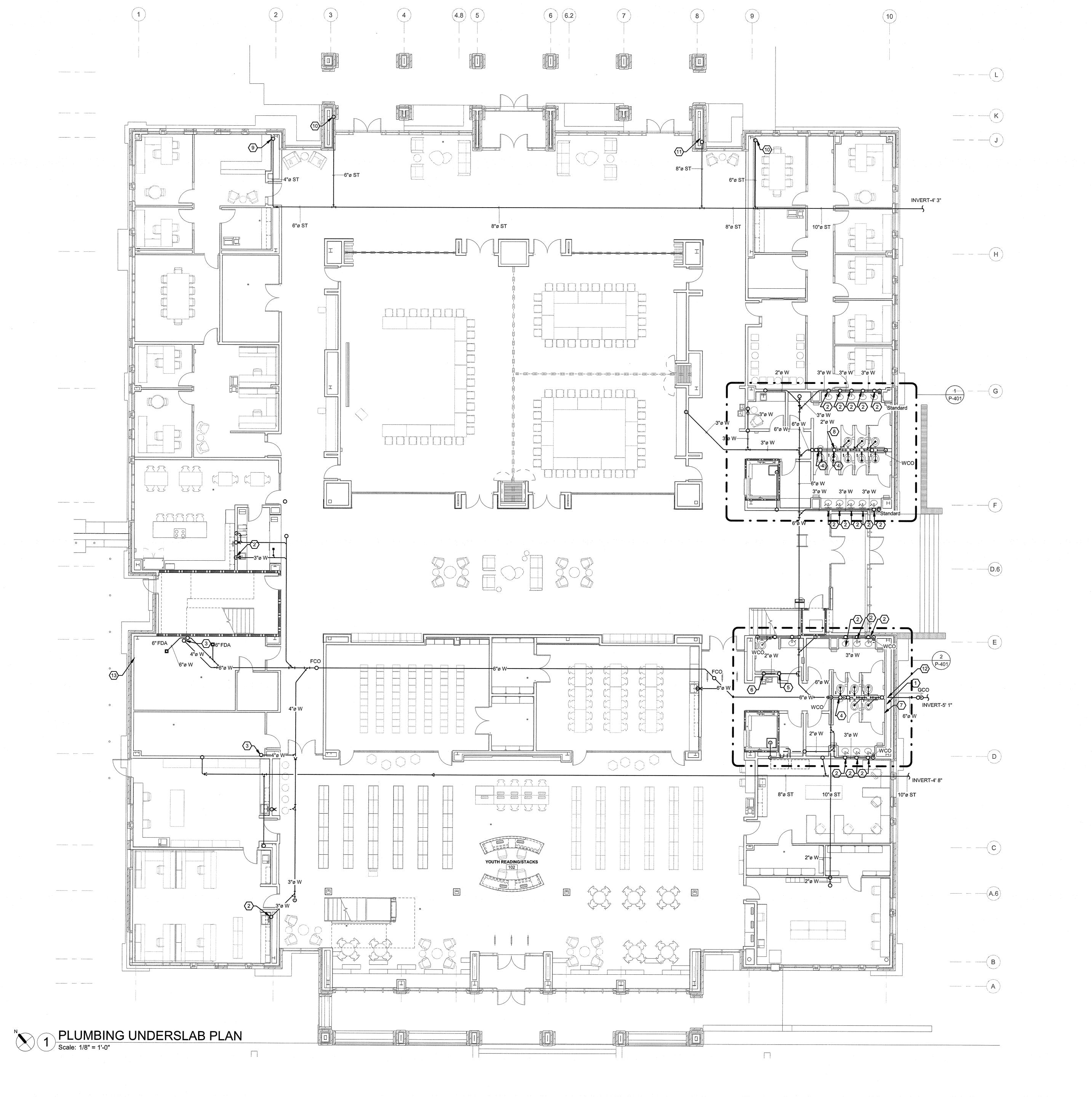
HARNETT COUNTY

CENTER

GOVERNMENT SERVICES

514-8066-00

PLUMBING SYMBOLS. ABBREVIATIONS & NOTES



- 1 6" W DN. FROM SECOND FLOOR.
- 2 2" W DN, 2" V UP.
- 3 4" W FROM ABOVE.
- 4 4" W DN, 2" V UP.
- 5 2" V UP.
- 6 2" W UP TO DRINKING FOUNTAIN.
- 7 SEE SITE/CIVIL PLAN FOR CONTINUATION OF 6" W.
- 8 2" W UP TO URINAL, 2" V UP.
- 9 4" STORM FROM ABOVE.
- 10 6" STORM FROM ABOVE.
- 11 8" STORM FROM ABOVE.
- 12 PROVIDE DUCTILE IRON THROUGH FOUNDATION WALL WHERE PIPING IS ENCASED IN CONCRETE. SEE STRUCTURAL DETAILS FOR MORE INFORMATION.
- 13 PROVIDE 12" PIPE THROUGH WALL WITH DOWNSPOUT COVER EQUAL TO ZURN Z199-DC. INSTALL AS CLOSE TO FLOOR LEVEL AS POSSIBLE. PROVIDE SCREEN IN PIPE.



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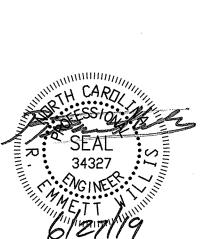


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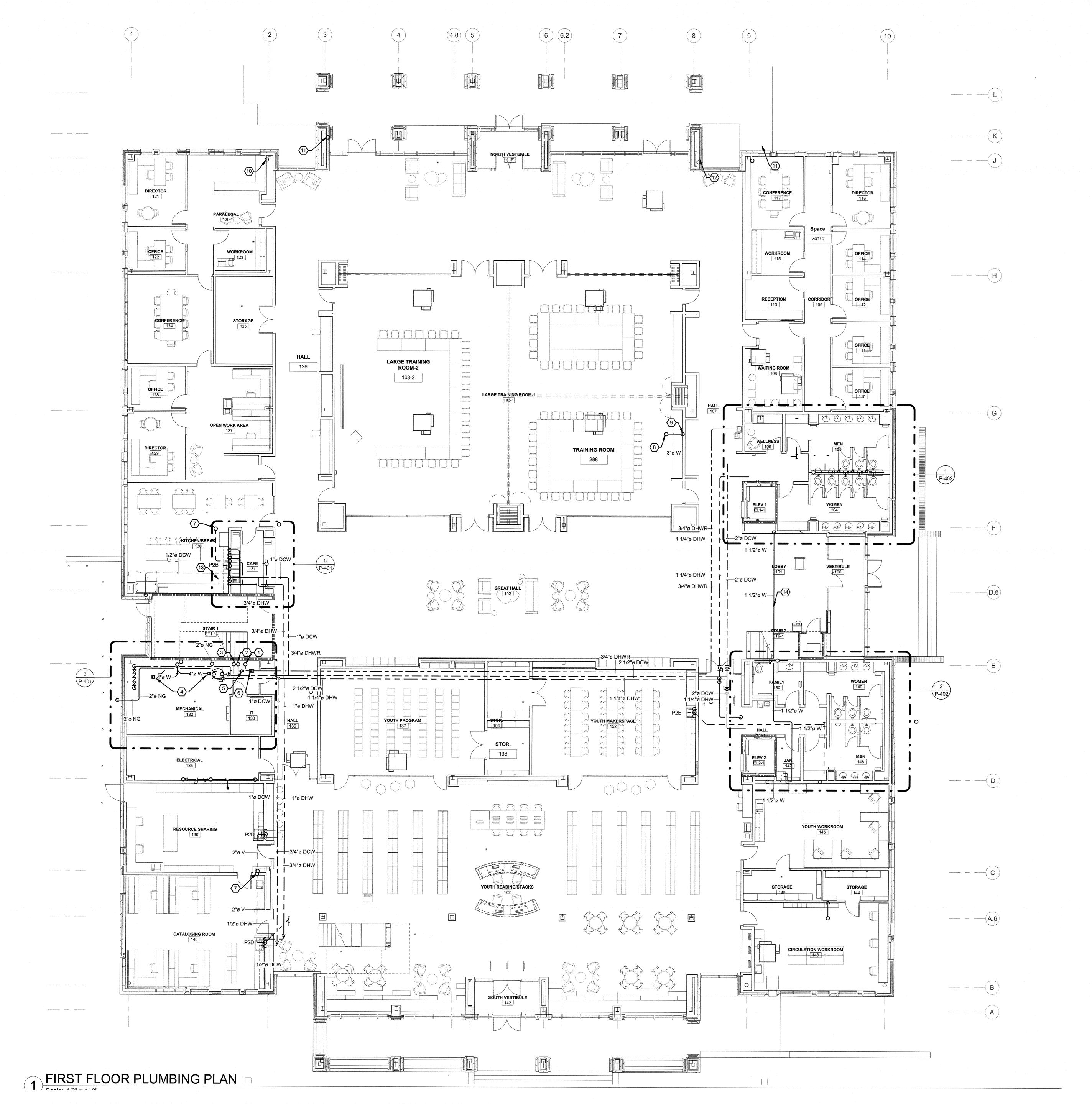
CONSTRUCTION DOCUMENTS

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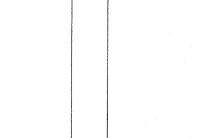
HARNETT COUNTY GOVERNMENT SERVICES

514-8066-00

PLUMBING UNDERSLAB PLAN



- 1 1" DHWR UP.
- 2 2" DCW UP.
- 3 1 1/4" DHW UP.
- 4 SECOND FLOOR MECHANICAL ROOM 4" FLOOR DRAINS.
- 5 DHWR PUMP.
- 6 0.5 GPM FLOW LIMITER.
- 7 2" VTR
- 8 2" W FROM SINK DN, 2" V UP.
- 9 2" W DN.
- 10 4" STORM DOWN FROM ABOVE.
- 11 6" STORM DOWN FROM ABOVE.
- 12 8" STORM DOWN FROM ABOVE.
- 13 CONNECT TO DISHWASHER.
- 14 1-1/2" FORCE MAIN ROUTED TO JANITORS CLOSET.



O RATED WALLS & PARTITIONS

SMOKE PARTITION

0-HOUR

U RAIL	ED WALLS &	PARTITION	<u>75</u>
	FIRE BARRIER	FIR	E & SMOKE BARRI
1-HOUR		1-HOUR	
2-HOUR		2-HOUR	
3-HOUR		3-HOUR	
	FIRE WALL		FIRE PARTITION
2-HOUR		0.5-HOUR	
3-HOUR		1-HOUR	
4-HOUR			

SMOKE BARRIER

1-HOUR

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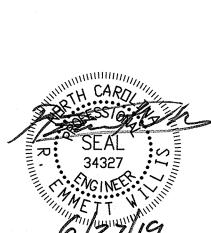
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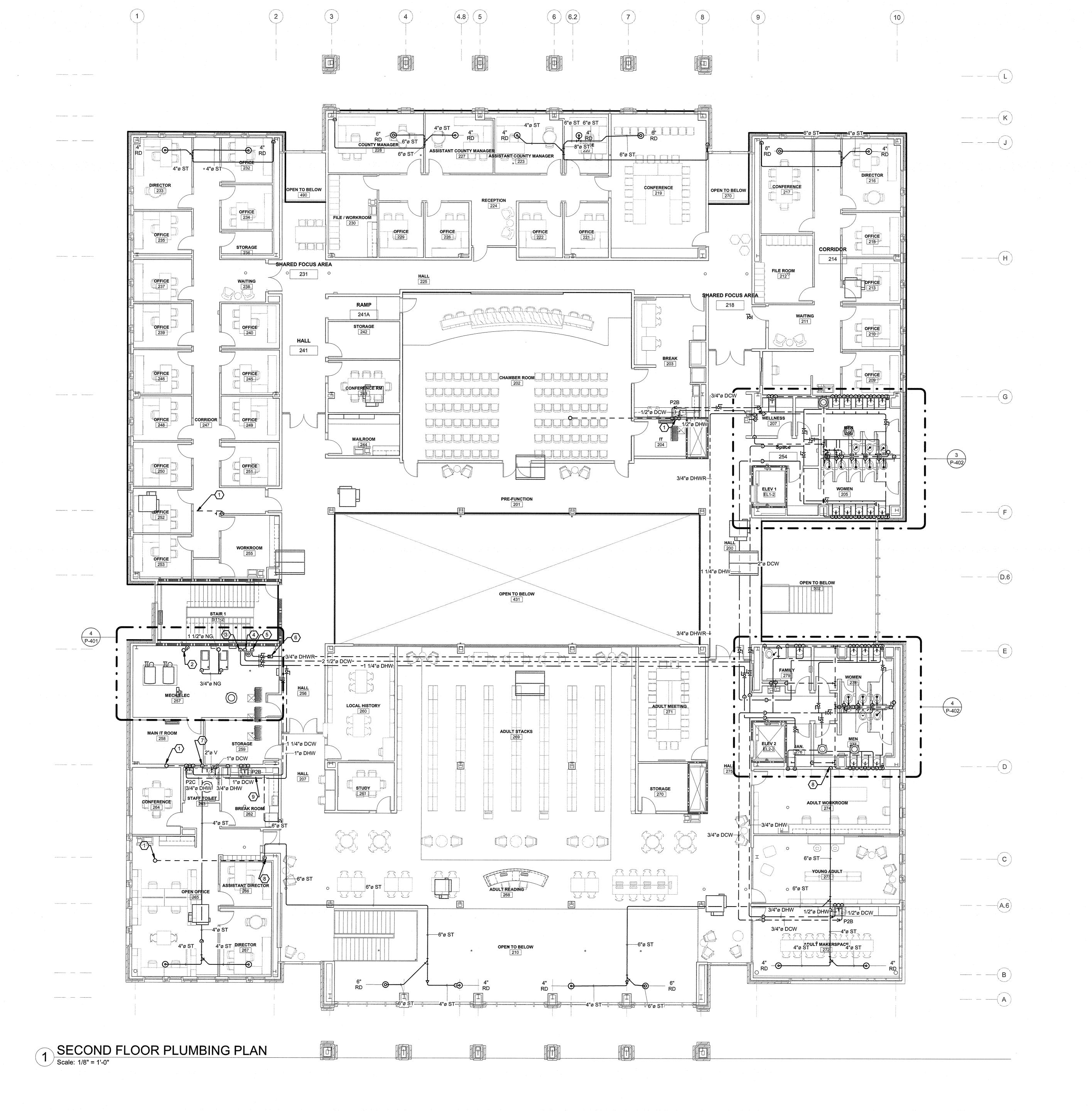
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CONSTRUCTION DOCUMENTS

HARNETT COUNTY
GOVERNMENT SERVICES
CENTER

514-8066-00 FIRST FLOOR PLUMBING PLAN



1 2" VTR

2 3" VTR

3 1 1/4" DHW DN.

4 2 1/2" DCW DN.

5 1" DHWR DN.

6 0.5 GPM FLOW LIMITER.

8 6" STORM DN.

7 4" STORM DN.

9 CONNECT TO DISHWASHER.

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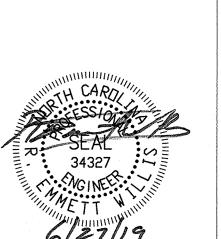
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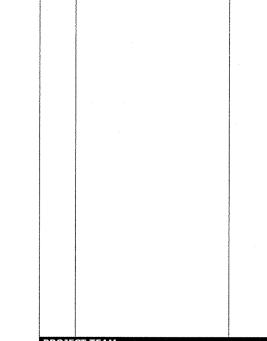
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FIRE & SMOKE BARRIER

FIRE PARTITION

SMOKE BARRIER

1-HOUR 2-HOUR 3-HOUR

0.5-HOUR 1-HOUR

1-HOUR

O RATED WALLS & PARTITIONS

FIRE BARRIER

SMOKE PARTITION

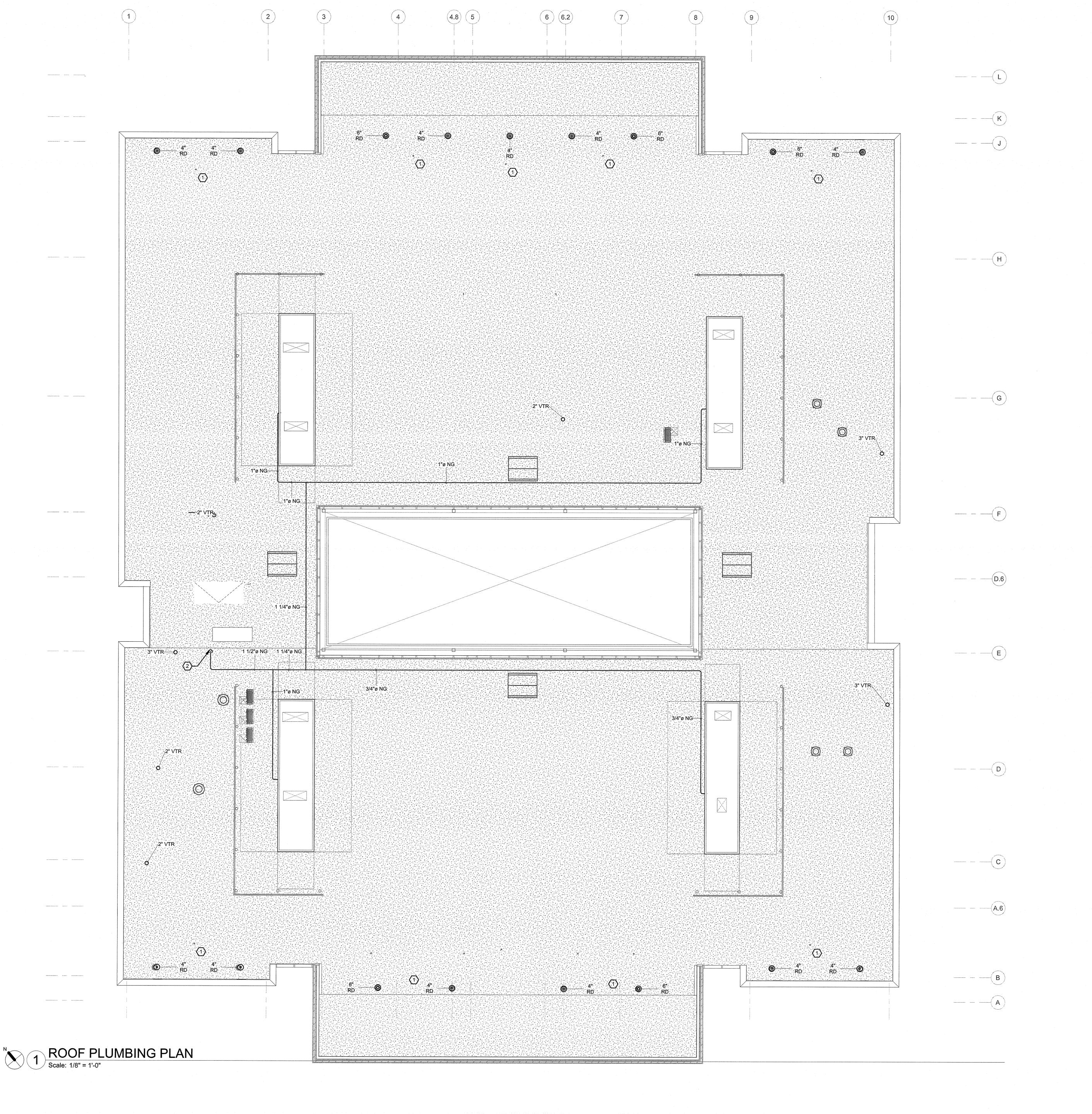
0-HOUR

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SECOND FLOOR PLUMBING PLAN



1 SECONDARY ROOF DRAINAGE IS PROVIDED BY SCUPPER IN PARAPET WALL. SEE ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.

2 NG FROM BELOW.



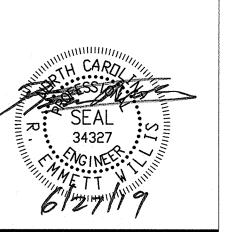
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PROJECT TEAM

PRINCIPAL IN CHARGE

MBW

PROJECT MANAGER

GAM

ROJECT MANAGER

SAM

ESIGN TEAM

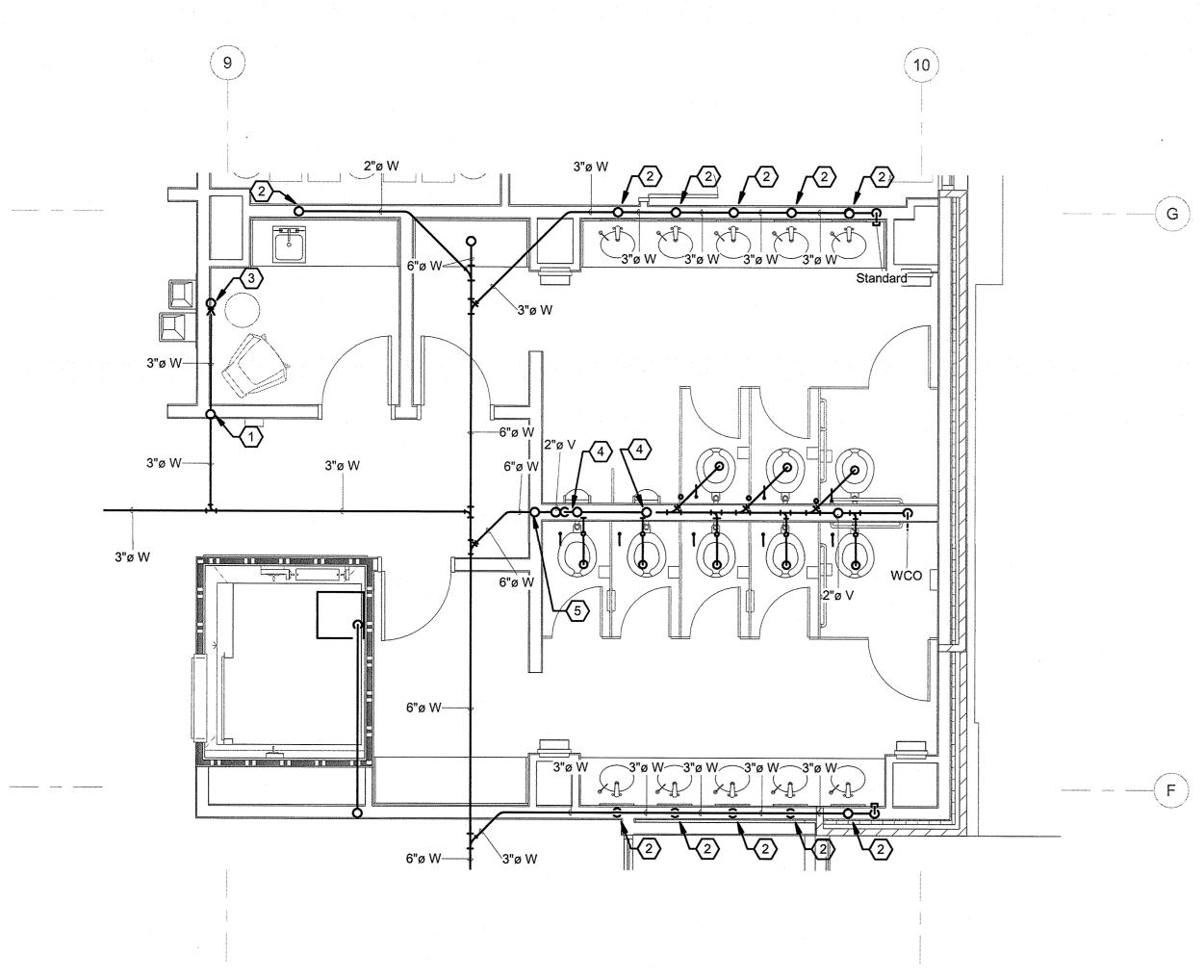
ART REW

SIGN TEAM RT, REW OJECT NAME

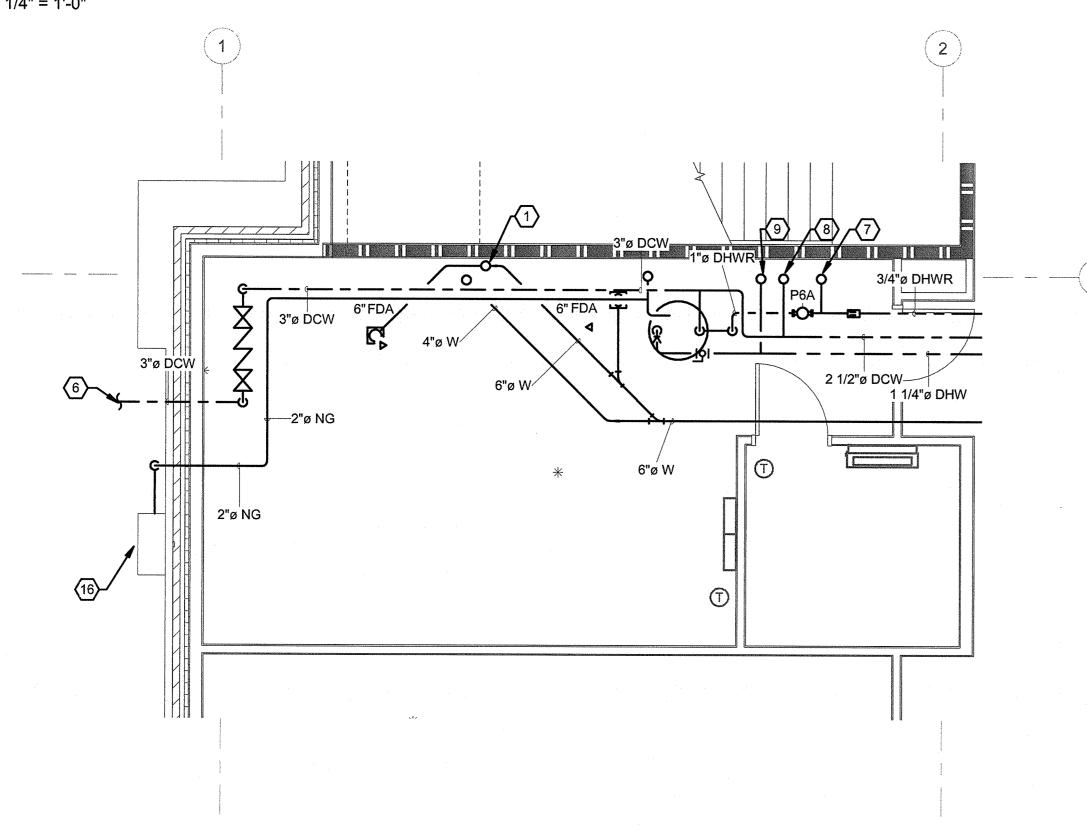
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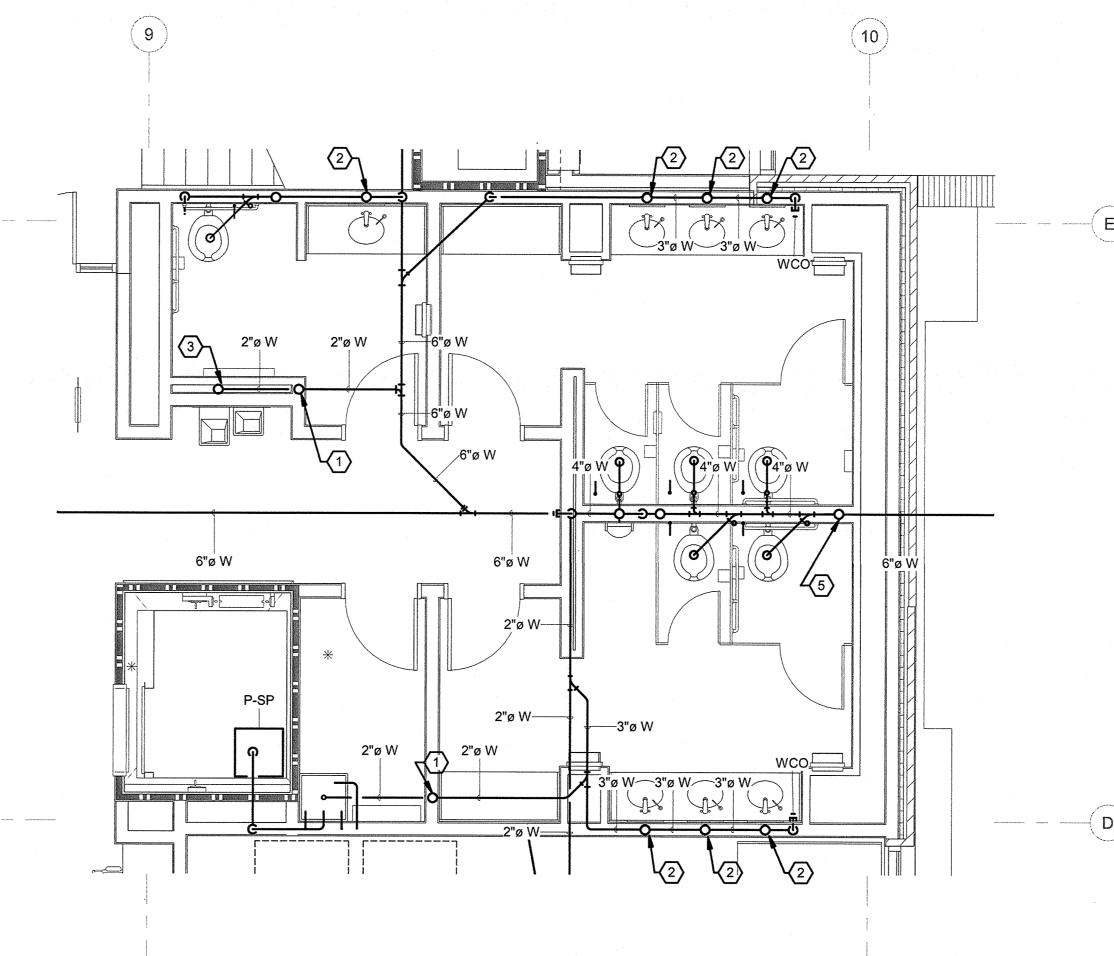
ROOF PLUMBING PLAN



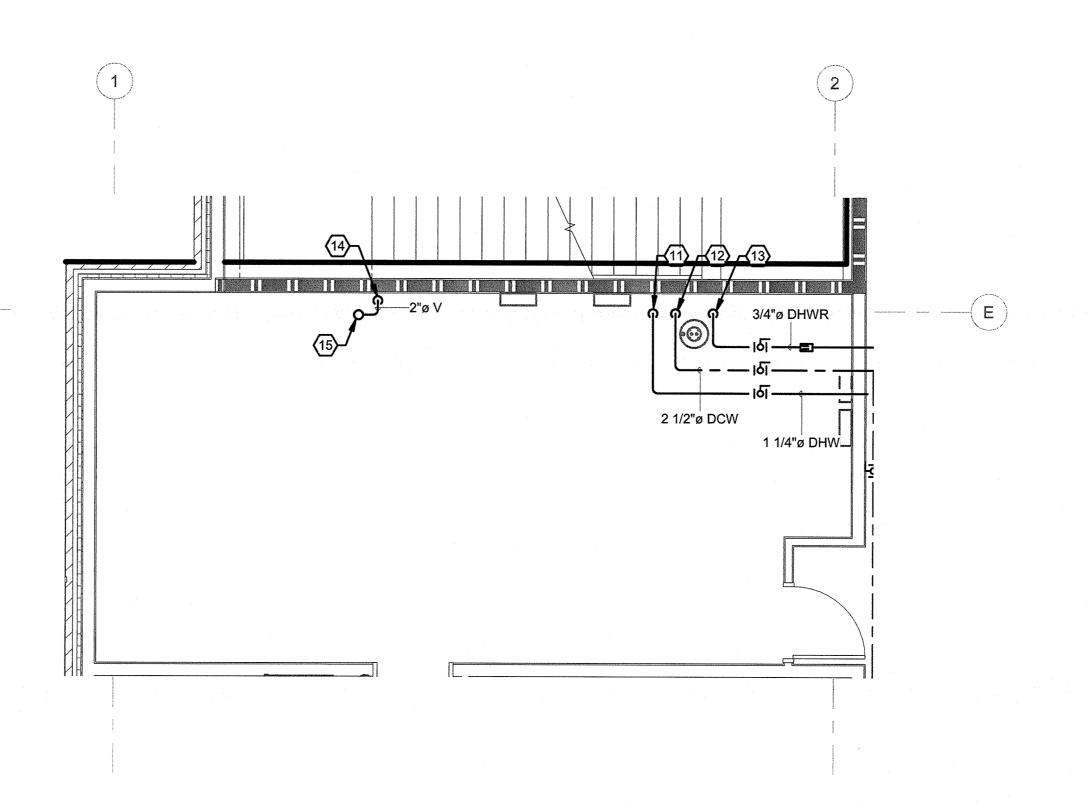
1 UNDERSLAB LARGE RESTROOM ENLARGED PLAN
Scale: 1/4" = 1'-0"



3 FIRST FLOOR MECHANICAL ROOM ENGLARGED PLAN
Scale: 1/4" = 1'-0"

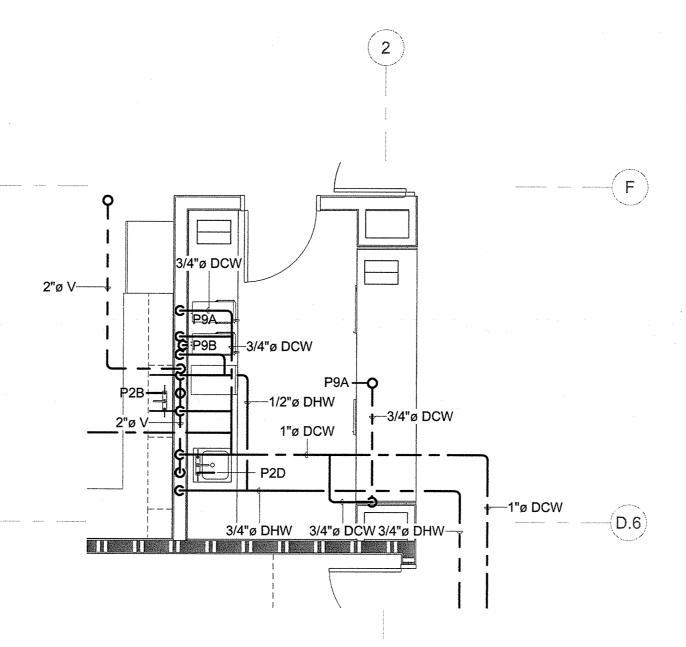


2 UNDERSLAB SMALL RESTROOM ENLARGED PLAN
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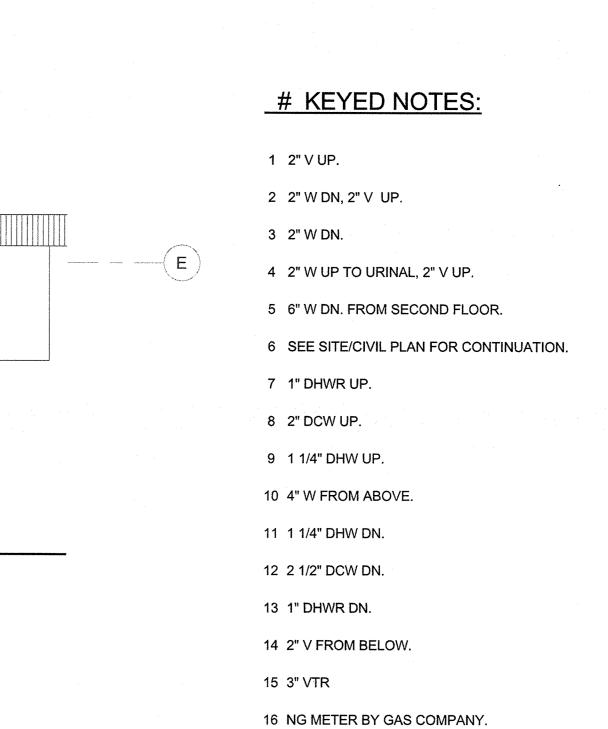


SECOND FLOOR MECHANICAL ROOM ENGLARGED PLAN

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



5 FIRST FLOOR BREAK ROOM PLUMBING PLAN
Scale: 1/4" = 1'-0"





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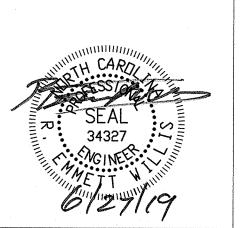
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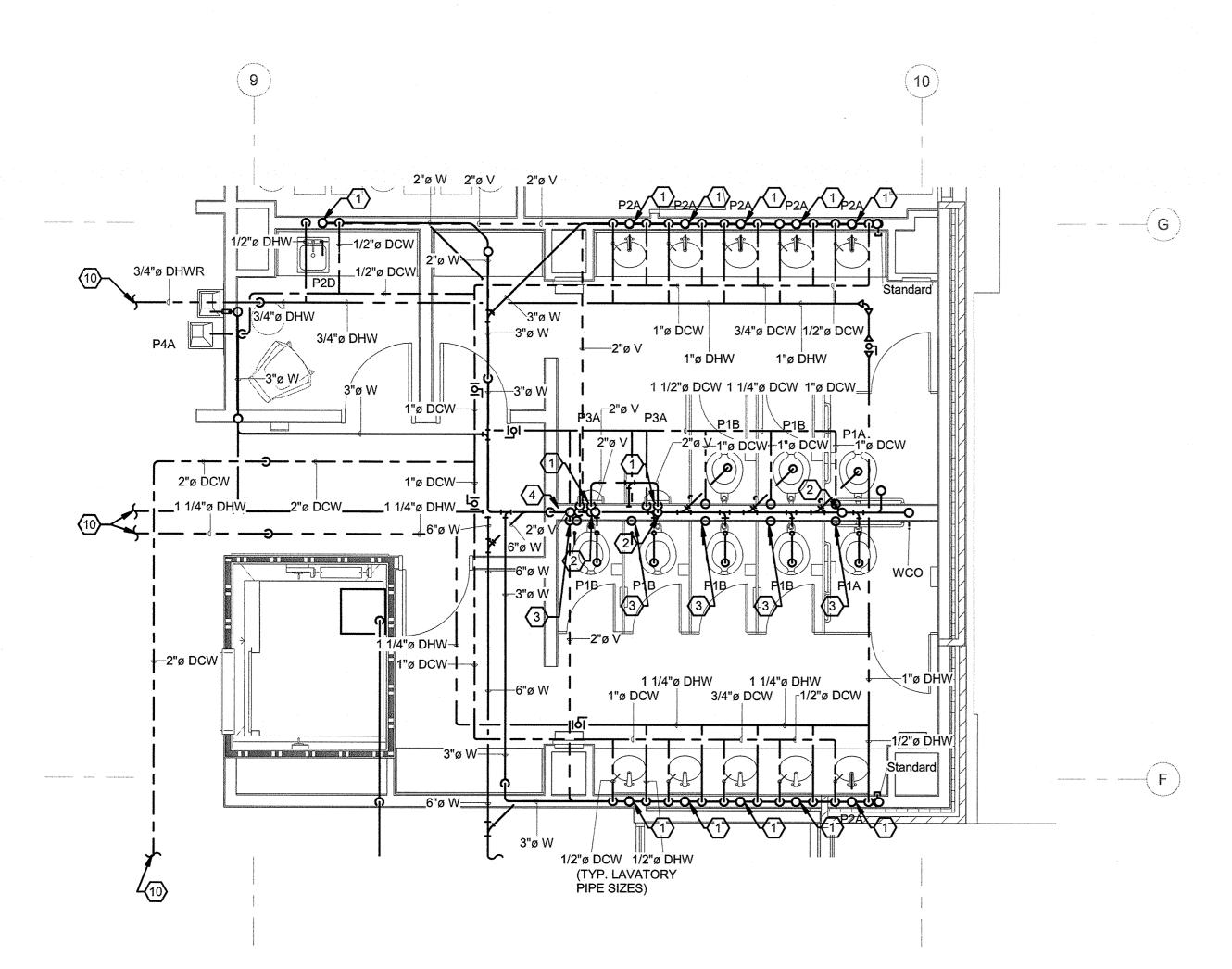


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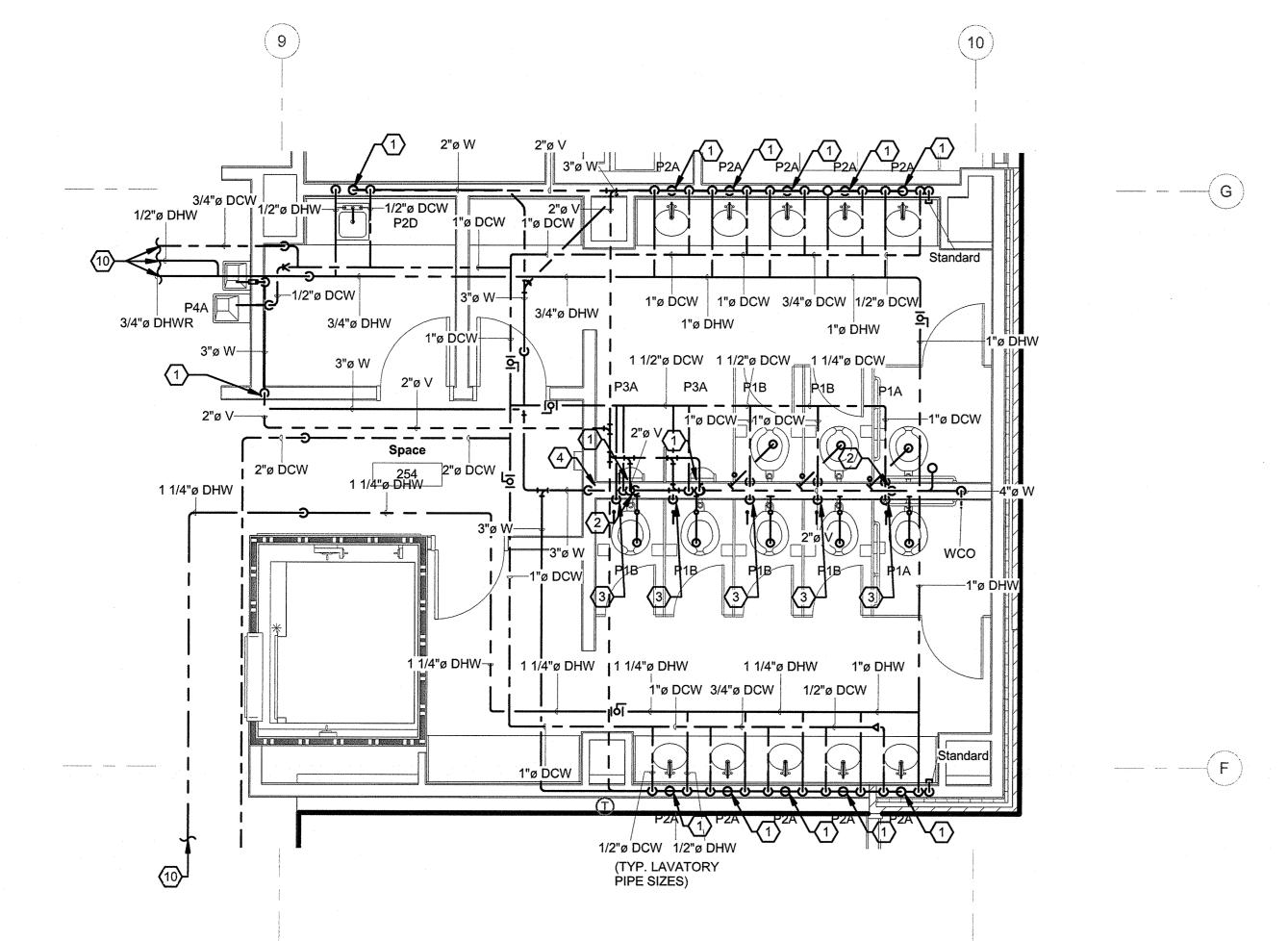
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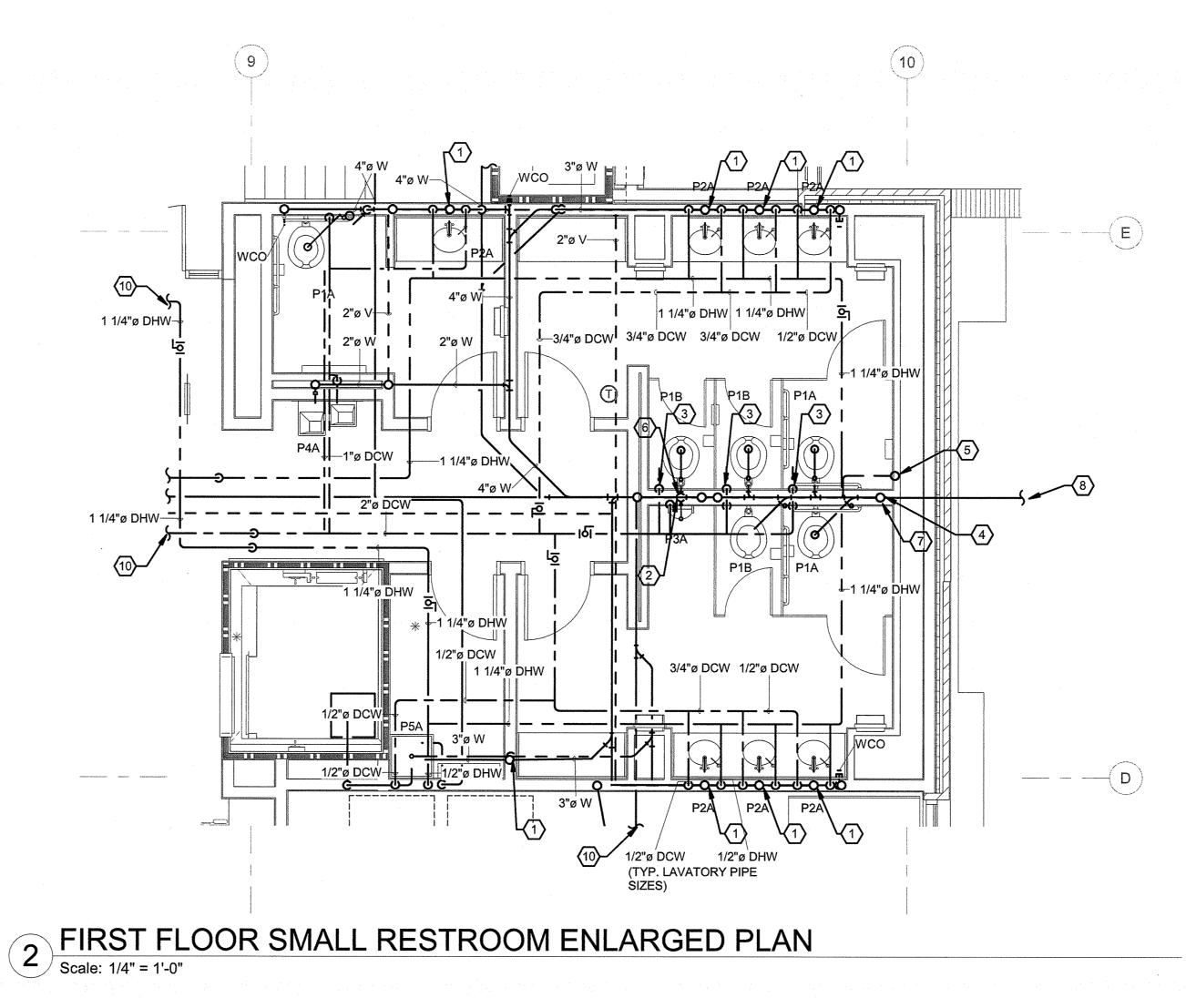
LARGE SCALE FLOOR PLANS

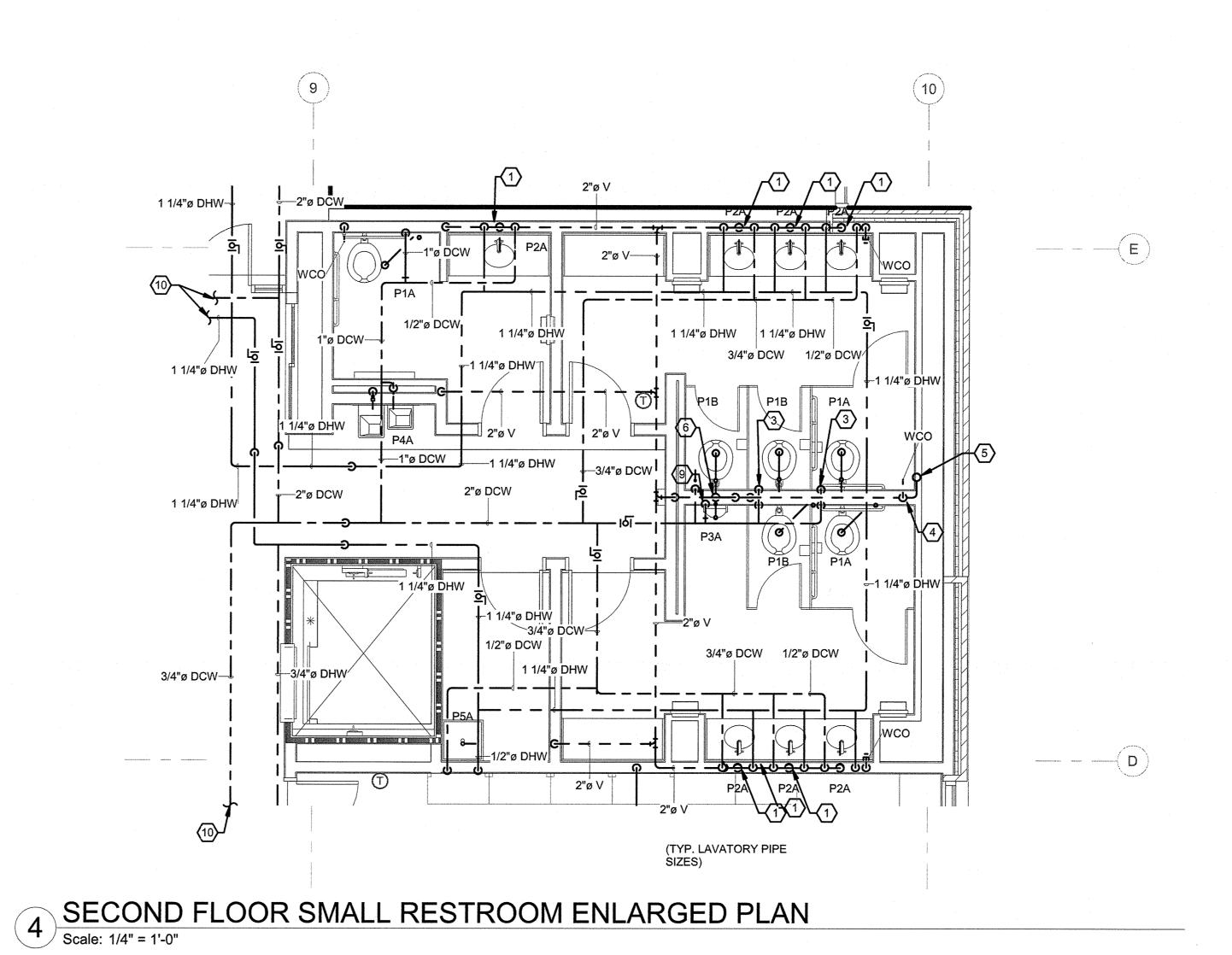


FIRST FLOOR LARGE RESTROOM ENLARGED PLAN Scale: 1/4" = 1'-0"



3 SECOND FLOOR LARGE RESTROOM ENLARGED PLAN
Scale: 1/4" = 1'-0"





KEYED NOTES:

- 4 6" W DN.
- 5 3" VTR

- 10 SEE SHEET P-111 FOR CONTINUATION.



- 1 2" W DN, 2" V UP.
- 2 4" W DN, 2" V UP.
- 3 1" DCW DN. TO WATER CLOSET.
- 6 2" W UP TO URINAL, 2" V UP.
- 7 6" W DN. FROM SECOND FLOOR.
- 8 SEE SITE/CIVIL PLAN FOR CONTINUATION OF 6" W.
- 9 1/2" DCW DN. TO URINAL.

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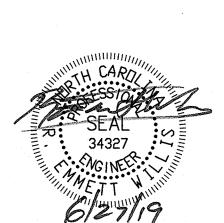
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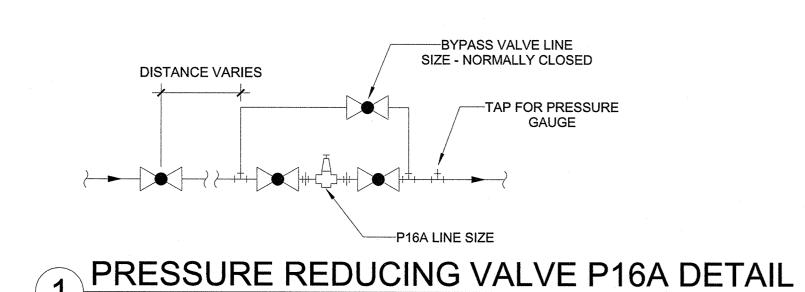


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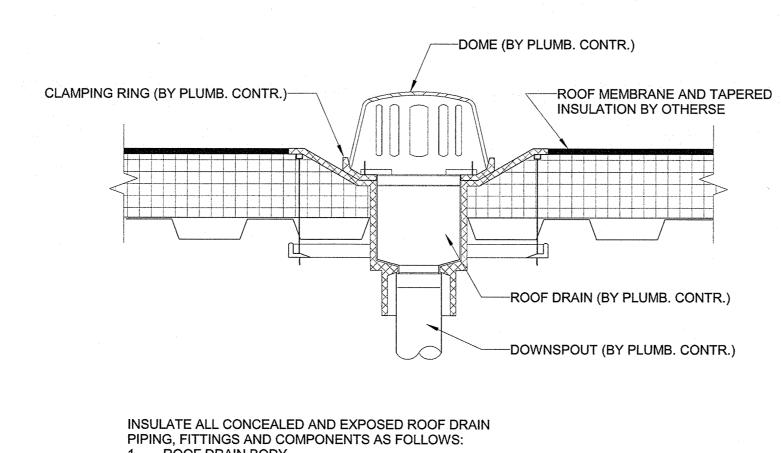
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LARGE SCALE FLOOR PLANS

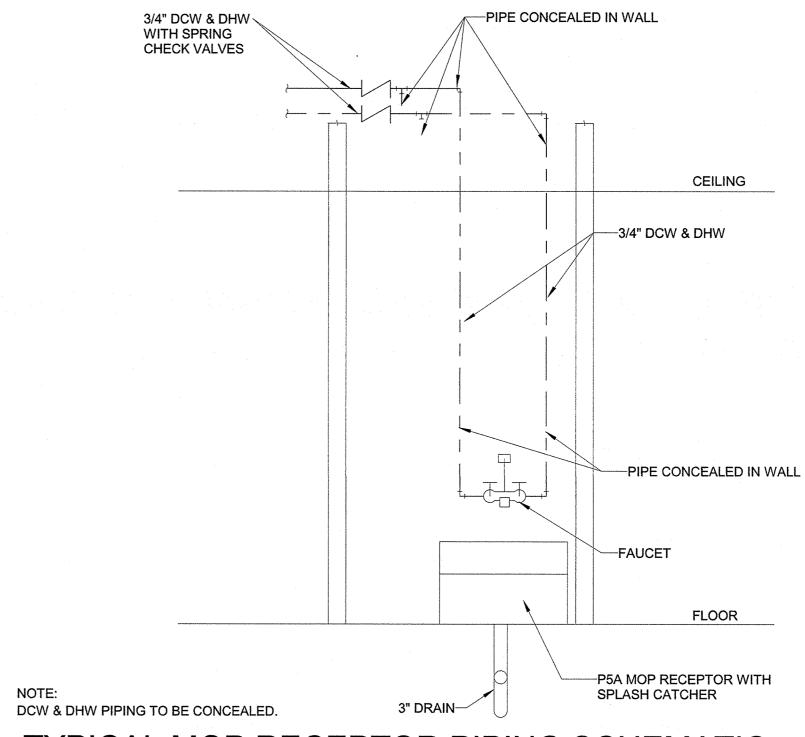


Scale: N.T.S.

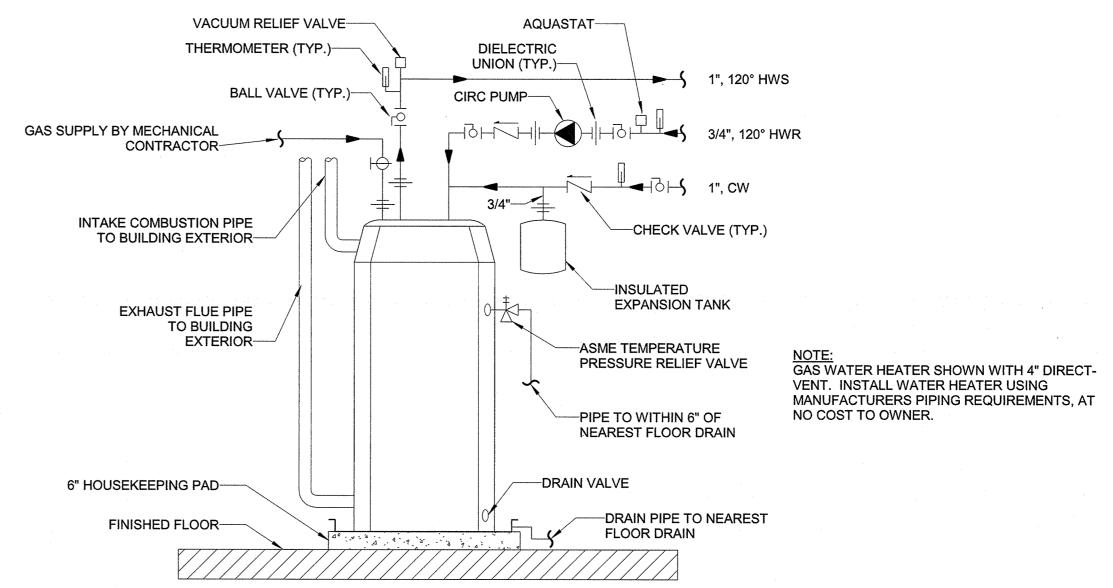


ROOF DRAIN BODY.
 VERTICAL PIPE FROM BOWL TO HORIZONTAL PIPE.
 HORIZONTAL PIPE.
 VERTICAL PIPE TO 2'-0" BELOW HORIZONTAL PIPE.

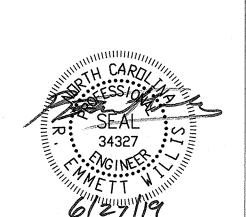
2 ROOF DRAIN DETAIL
Scale: N.T.S.



3 TYPICAL MOP RECEPTOR PIPING SCHEMATIC
Scale: N.T.S.



4 GAS WATER HEATER SCHEMATIC
Scale: NTS



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1SSUE DATE 06.27.2019

REVISIONS
NO. REASON DATE

PROJECT TEAM
PRINCIPAL IN CHARGE
MBW
PROJECT MANAGER

PROJECT MANAGER GAM

ART, REW

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PROJECT NO. 514-8066-00

DETAILS

		· · · · · · · · · · · · · · · · · · ·	1			PLUMBING FIXTURE SCHEDULE
MARK		HW	<u></u>	WASTE		REMARKS
P1A	WATER CLOSET FLOOR MOUNTED MANUAL FLUSH VALVE 1.6 GAL PER FLUSH ADA		1"	4"	2"	FIXTURE: KOHLER NO. 96057-SSL, VITREOUS CHINA, WHITE, 1.6 GALLON FLUSH, SIPHON JET FLUSHING, ELONGATED BOWL, ANTIMICROBIAL SURFACE 1-1/2" TOP SPUD, 10" ROUGH-IN. 1000# STATIC LOAD RATING. FLUSH VALVE: SLOAN ROYAL NO. 111-YO-SG MANUAL 1.6 GAL PR FLUSH VALVE, 11/2" TOP SPUD, NON-HOLD-OPEN HANDLE, ANTIMICROBIAL COATING ADJUSTABLE TAILPIECE, VACUUM BREAKER, VANDAL RESISTANT, CHROME PLATED NIPPLE AND CAST WALL FLANGE. SEAT: BEMIS NO. 2155SSCT, WHITE SOLID PLASTIC, ELONGATED, OPEN FRONT, NO COVER, BUMPERS, ANTIMICROBIAL PROTECTION, STAINLESS STE SELF-SUSTAINING CHECK HINGE, "STA-TITE" FASTENING SYSTEM.
P1B	WATER CLOSET FLOOR MOUNTED MANUAL FLUSH VALVE 1.6 GAL PER FLUSH ADA		1"	4"	2"	FIXTURE: KOHLER NO. 96057-SSL, VITREOUS CHINA, WHITE, 1.6 GALLON FLUSH, SIPHON JET FLUSHING, ELONGATED BOWL, ANTIMICROBIAL SURFACI 1-1/2" TOP SPUD, 10" ROUGH-IN. 1000# STATIC LOAD RATING. FLUSH VALVE: SLOAN ROYAL NO. 111-YO-SG MANUAL 1.6 GAL PR FLUSH VALVE, 11/2" TOP SPUD, NON-HOLD-OPEN HANDLE, ANTIMICROBIAL COATING ADJUSTABLE TAILPIECE, VACUUM BREAKER, VANDAL RESISTANT, CHROME PLATED NIPPLE AND CAST WALL FLANGE. SEAT: BEMIS NO. 2155SSCT, WHITE SOLID PLASTIC, ELONGATED, OPEN FRONT, NO COVER, BUMPERS, ANTIMICROBIAL PROTECTION, STAINLESS STE SELF-SUSTAINING CHECK HINGE, "STA-TITE" FASTENING SYSTEM.
P2A	LAVATORY UNDERMOUNT SENSOR FAUCET 0.5GPM	1/2"	1/2"	2"	2"	FIXTURE: KOHLER NO. K-2881 LESS OVERFLOW, WHITE VITREOUS CHINA; UNDERMOUNT; NOM. 17"x14" BASIN x3" WATER DEPTH. FAUCET: SLOAN SF2300-BDM, SENSOR FAUCET, HARD WIRED, 4" CENTERSET, BELOW DECK MANUAL MIXING VALVE (BDM), 0.5GPM, POLISHED CHRON FINISH. TRIM: McGUIRE NO. 155A GRID STRAINER WITH TAIL PIECE. McGUIRE NO. LF175LK FLEXIBLE SUPPLIES WITH LOOSE KEY STOPS; SET SCREW ESCUTCHEONS; AND CHROME NIPPLES. McGUIRE NO. 8902 11/4"x11/2" HEAVY CAST BRASS ADJUSTABLE P-TRAP WITH CLEANOUT PLUG; CHROME PLATED. INSUL. COVER: McGUIRE NO. PW-2000-WC INSULATING KIT INCLUDING TRAP, WALL BEND, TAIL PIECE AND SUPPLY COVERS.
P2B	SINK - STAINLESS STEEL DOUBLE BOWL SELF RIMMING SINGLE LEVER FAUCET 1.5 GPM (ADA)	1/2"	1/2"	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.
P2C	PUBLIC LAVATORY WALL HUNG SINGLE LEVER FAUCET 0.5 GPM (SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT)	1/2"	1/2"	2"	2"	FIXTURE: KOHLER NO. K-2032-N WHITE VITREOUS CHINA, NOM. 21"W x 18" FRONT TO BACK, 5" BACKSPLASH, LESS OVERFLOW, 4" FAUCET CENTERS, ANTIMICROBIAL SURFACE. FAUCET: SLOAN SF2300-BDM, SENSOR FAUCET, HARD WIRED, 4" CENTERSET, BELOW DECK MANUAL MIXING VALVE (BDM), 0.5GPM, POLISHED CHRONFINISH. TRIM: McGUIRE PRODRAIN GRID STRAINER WITH TAIL PIECE. McGUIRE NO. LF170LK SUPPLIES WITH LOOSE KEY STOPS, SET SCREW ESCUTCHEONS, AND CHROME NIPPLES. McGUIRE NO. 8902 11/4"x11/2" HEAVY CAST BRASS ADJUSTABLE P-TRAP WITH CLEANOUT PLUG, CHROME PLATED. CARRIER: ZURN NO. Z1224 FLOOR SUPPORTED WALL HANGER CARRIER. INSUL. COVER: TRUEBRO LAVGUARD INSULATING KIT INCLUDING TRAP, WALL BEND, TAIL PIECE AND SUPPLY COVERS.
P2D	SINK - STAINLESS STEEL SINGLE BOWL SELF RIMMING WRIST BLADE FAUCET 1.5 GPM ADA	1/2"	1/2"	2"	2"	FIXTURE: ELKAY NO. LRAD151755, 15"W x 171/2" FRONT TO BACK, 18 GAUGE, 304SS, SELF RIMMING, NOM. 12"x12"x51/2"D BOWL, UNDERCOATED, 3 HOLE @ 4" CENTERS, LK18 GRID DRAIN WITH TAILPIECE. FAUCET: CHICAGO 786-P3-319ABCP, DECK MOUNTED SWIVEL GOOSENECK FAUCET, LEAD FREE, 4" WRIST BLADE HANDLES, 1.5 GPM LAMINAR FLOW, VANDAL PROOF. TRIM: McGUIRE NO. LF170LK SUPPLIES WITH LOOSE KEY STOPS, SET SCREW ESCUTCHEONS, AND CHROME NIPPLES. McGUIRE NO. 8903 1-1/2"x2" CHROME PLATED HEAVY CAST BRASS ADJUSTABLE P-TRAP WITH CLEANOUT PLUG. CARRIER: TRUEBRO LAVGUARD INSULATING KIT INCLUDING TRAP, WALL BEND, TAIL PIECE AND SUPPLY COVERS.
P2E	SINK - STAINLESS STEEL DOUBLE BOWL SELF RIMMING SINGLE LEVER FAUCET 1.5 GPM (ADA)	1/2"	1/2"	2"	2"	FIXTURE: ELKAY NO. LRAD151755, 15"W x 171/2" FRONT TO BACK, 18 GAUGE, 304SS, SELF RIMMING, NOM. 12"x12"x51/2"D BOWL, UNDERCOATED, 3 HOLE @ 4" CENTERS, PROFLO PF73CP BASKET STRAINED DRAIN WITH TAILPIECE. FAUCET: CHICAGO 786-P3-319ABCP, DECK MOUNTED SWIVEL GOOSENECK FAUCET, LEAD FREE, 4" WRIST BLADE HANDLES, 1.5 GPM LAMINAR FLOW, VANDAL PROOF. TRIM: PROFLOW PF73CP BASKET STRAINER, MCGUIRE P-TRAP SUPPLIES WITH LOOSE KEY STOPS, SET SCREW ESCUTCHEONS, AND CHROME NIPPLES. McGUIRE NO. 8903 1-1/2"x2" CHROME PLATED HEAVY CAST BRASS ADJUSTABLE P-TRAP WITH CLEANOUT PLUG. CARRIER: TRUEBRO LAVGUARD INSULATING KIT INCLUDING TRAP, WALL BEND, TAIL PIECE AND SUPPLY COVERS.
P3A	URINAL MANUAL FLUSH VALVE 1 GAL PER FLUSH ADA		1"	2"		FIXTURE: KOHLER NO. K-5016-ET, VITREOUS CHINA WHITE, ELONGATED RIM, ANTIMICROBIAL SURFACE, 1 GAL. PER FLUSH SIPHON JET DESIGN, 3/4" TOP SPUD, WALL HANGERS, MOUNT 17" MAXIMUM FROM FINISH FLOOR TO TOP OF RIM. FACUET: SLOAN ROYAL 186-1 FLUSH VALVE, MANUAL 1.0 GAL PER FLUSH VALVE, POLISHED CHROME, NON-HOLD-OPEN HANDLE, ANTIMICROBIAL COATING, 3/4" FLUSH TUBE, SCREW DRIVER STOP, VANDAL RESISTANT, VACUUM BREAKER, CHROME PLATED NIPPLE AND CAST WALL FLANGE. CARRIER: ZURN NO. Z-1222-58 CARRIER, ADJUSTABLE TOP AND BOTTOM SUPPORT PLATES, FLUSH VALVE SUPPLY SUPPORT, STEEL UPRIGHTS WELDED FEET.
P4A	ELECTRIC WATER COOLER DUAL HEIGHT ADA	1/2"	1/2"	2"		FIXTURE: HALSEY TAYLOR NO. HVR8BL-CHILD-ADA DUAL HEIGHT WALL MOUNT ELECTRIC WATER COOLER, SATIN FINISH STAINLESS STEEL CABINET, POLISHED CHROME PLATER PUSH BUTTONS AND BUBBLER, TRIPLE WATER FILTER (TASTE, ODOR, MINERAL REMOVAL), 5 YEAR WARRANTY. DELIVER OF 7.5 GPH OF 50°F WATER AT 90°F AMBIENT AND 80°F INLET WATER. TRIM: McGUIRE NO. 8090 TRAP. PROVIDE ACCESSIBLE SHUTOFF VALVE. CARRIER: ZURN NO. Z-1225-BL-VP
P5A	MOP RECEPTOR	1/2"	1/2"	3"		FIXTURE: FIAT NO. TSB100 ONE PIECE, 24" X 24" X 12" PRECAST TERRAZZO, STAINLESS STEEL STRAINER #1453BB, FIAT 1453-BB STAINLESS STEEL DRAIN, 3" OUTLET. FAUCET: 830AA MOP SEVICE BASIN FITTINGS, 832-AA HOSE AND HOSE BRACKETS, E-88-AA BUMPERGUARDS, MSG2828 WALL GUARDS.
P6A	HW RECIRCULATING PUMP	1"	1"	0"		FIXTURE: BELL & GOSSETT MODEL NO. PL-36B BRONZE PUMP. 5GPM @ 12 FEET H2O HEAD, 1/6HP, 1PH, 60HZ, 115V, 2.1 F.L. AMPS (2 REQUIRED)
P9A	WALL BOX	-	1/2"			FIXTURE: GUY GRAY MODEL BIM875 WITH 1/2" COMPRESSION FITTING COLD WATER VALVE; WATTS SERIES 7 DUAL CHECK VALVE BACKFLOW PREVENTER; FILTRINE TMP WATER FILTER. VALVES AND FILTER ARE TO BE "LEAD FREE".
P9B	WALL BOX WITH DRAIN	1/2"	1/2"	1 1/2"	2"	FIXTURE: GUY GRAY MODEL B150 WITH 1/2" HOT AND COLD WATER SUPPLY VALVES, 1-1/2" DRAIN, MCHUIRE 8090C P-TRAP.
P-SP	SUMP PUMP		0"		-	FIXTURE: ZOELLER MODEL NO. M145, SIMPLEX, 50 GPM, 20 FT H20, 3450 RPM, 115 V, PH 1, 3/4 MOTOR HP.

			WATER HEATER SCHEDULE
MARK	Manufacturer	Model	DESCRIPTION
WH-1	HTP PHOENIX	PH199-119	316L STAINLESS STEEL GAS FIRED WATER HEATER, INPUT MODULATION 40,000-199,000, 335 GAL. FIRST HR. RATING, 96% EFFICIENCY.
			ROOF DRAIN SCHEDULE
MARK	Manufacturer	Model	ROOF DRAIN SCHEDULE DESCRIPTION
MARK 4" RD	Manufacturer ZURN	Model Z100	



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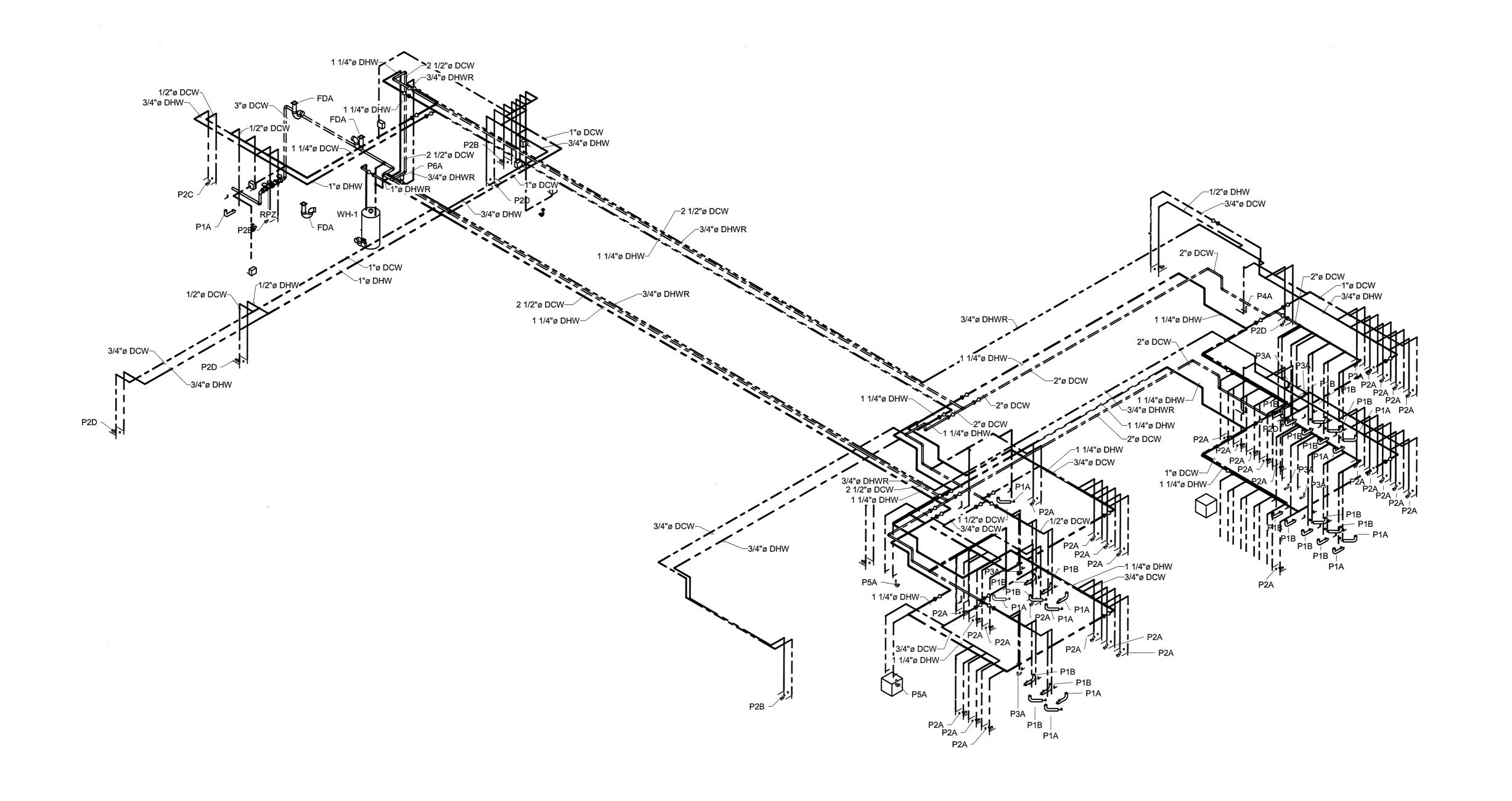
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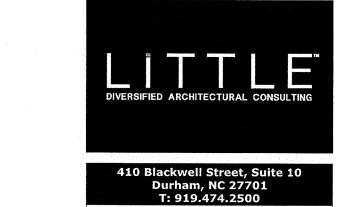
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SCHEDULES AND DIAGRAMS



1 DOMESTIC WATER RISER DIAGRAMS
Scale:



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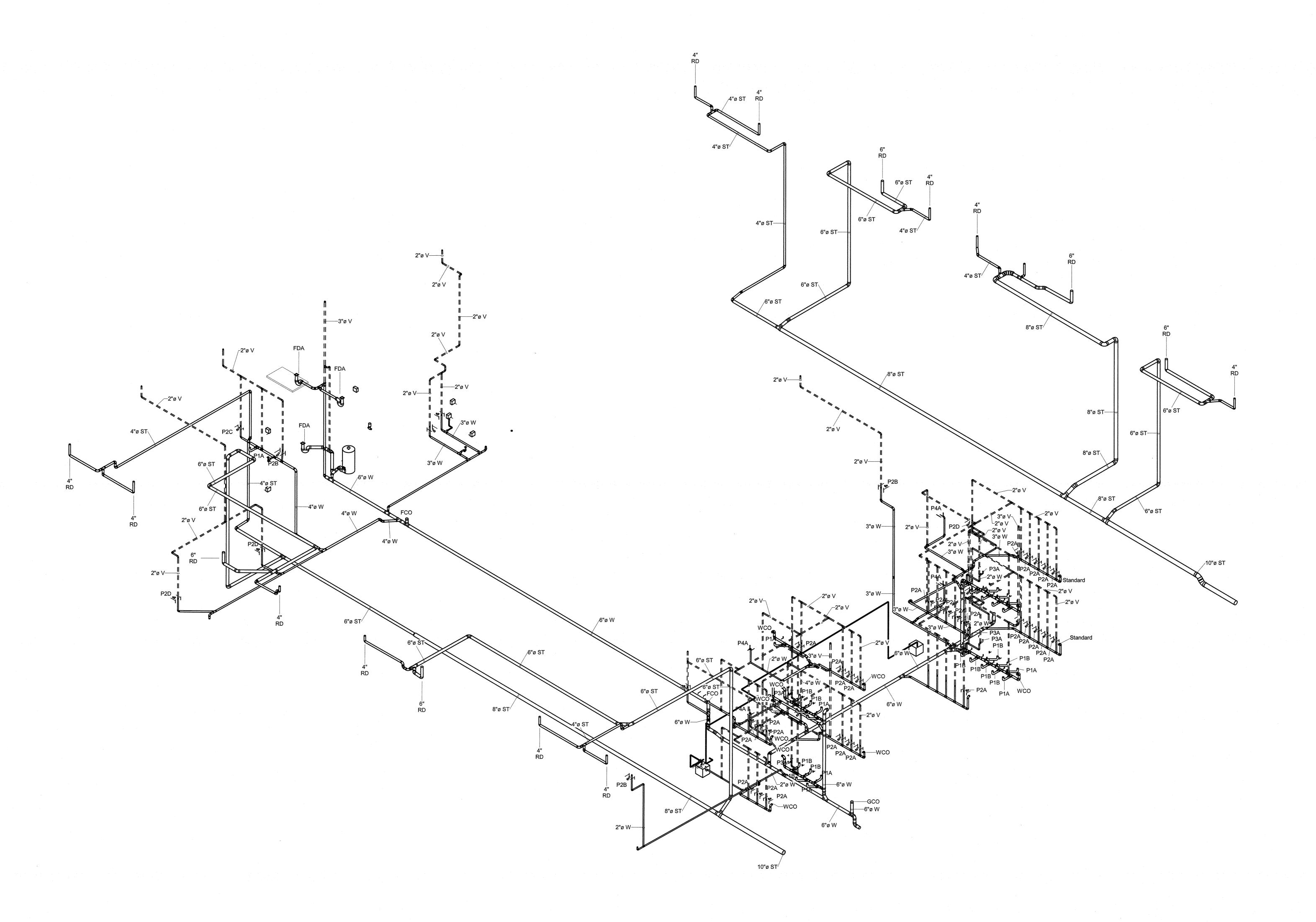
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RISER DIAGRAMS



WASTE AND VENT RISER DIAGRAMS
Scale:



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514-8066-00 RISER DIAGRAMS