

ABBREVIATIONS			
& L @ #	And Metal Angle At Pound or Number	E EA EB EF EJ EL ELEC ELEV EMERG ENCL ENGR EP EQ EWC Cooler EXH EXIST EXP EXT	K K-FT KVA KW
A, AMP	Ampere or Amperage	East Each Electric Baseboard Exhaust Fan Expansion Joint Elevation Electrical Elevator Emergency Enclosure Engineer Electrical Panel Equal Electric Water	Kip (1,000 lbs) Kip Feet Kilovolt Amps Kilowatts
ACU	Air Conditioning Unit	LAM LAV LB LCC	Laminated Lavatory Pound Lead Coated Copper
ADDN	Addition	LF LH LL LP LP(G) LVL	Linear Feet Left Hand Live Load Lighting Panel Lighting Laminated Veneer Lumber
ADJ	Adjustable	MAS MAX MCM	Masonry Maximum Metal Composite Material
AFF	Above Finish Floor	MDP MECH MED MEMB MET MFR MIN MISC MO MR MTD	Main Distribution Panel Mechanical Medium Membrane Metal Manufacturer Minimum Miscellaneous Masonry Opening Moisture Resistant Mounted
AHU	Air Handling Unit	N NIC NOM NTS	North Not In Contract Nominal Not To Scale
ALT	Alternate	O/A OC OD OPG OPP OZ	Outdoor Air On Center Outside Diameter Opening Opposite Ounce
ALUM	Aluminum	PA PCF PERF PG PL PLAM PLAS PLBG PLYWD PNL POL PP WASH PR PRTN PSF PSI	Public Address Pounds Per Cubic Foot Perforated Paint Grade Plate Plastic Laminate Plaster Plumbing Plywood Panel Polished POWER & EYE WASH Panel Pair Partition Pounds Per Square Foot Pounds Per Square Inch
ANCH	Anchor, Anchorage	REVISION MARK	Revision
ANOD	Anodized	RESIL RET REV RFG RH RM RO RPM RWL RV	Resilient Return Revisions, Revised Roofing Right Hand Room Rough Opening Revolutions Per Minute Rain Water Leader Roof Vent
ARCH	Architect, Architectural	SAN SCHED SERV SF SGFT SHT SIM SP SPEC SQ SS ST STD STL STRUCT	Sanitary Schedule Service Square Feet Structural Glazed Facing Tile Sheet Similar Static Pressure Specifications Square Stainless Steel Stom Standard Steel Structural
BRG	Bearing	SW, SW BD Board Switch, Switch	Switch, Switch Board
BRK	Brick	SWGR SYM	Switchgear Symmetrical
BSMT	Basement	T TB T&B T&G	Tread, Thermostat Thousand BTU per Hour Top & Bottom Tongue & Groove
BUR	Built Up Roof	T/F T/M T/S T/W TEL or TELE TEMP THK THRES TR TRANS TYP	Top of Frame Top of Masonry Top of Steel Top of Wall TEL or TELE Telephone Foot Temperature Thick(ness) Threshold Trash Transformer Typical
C	Course	UG UH UON Noted	Under Ground Unit Heater Unless Otherwise Noted
CAB	Cabinet	V AV VCT VERT VENT VHP VIF VIN VVC	Vent, Volt Variable Air Volume Vinyl Composition Tile Vertical Ventilator Vertical Heat Pump Verify in Field Vinyl Vinyl Wallcovering
CD	Condensate Drain	R R/A RAD RCP RD RECPT RE REF REFIN REINF REQ RL	Riser, Register Return Air Radius Reinforced Concrete Pipe Roof Drain Receptacle Recycle Reference Refinish Reinforced(d), (ing) Required Roof Leader
CEM	Cement	W WB W W/O WC WD WP WR Wainscot WT WWF YD	Watts, West Wet Bulb With Without Water Closet Wood Waterproof Water Resistant Wainscot Weight Welded Wire Fabric Yard
CFM	Cubic Feet Per Minute		
CG	Corner Guard		
CHP	Cabinet Heat Pump		
CI	Cast Iron		
CJ	Control Joint		
CKT	Circuit		
CLG	Ceiling		
C	Center Line		
CLR	Clear		
CMU	Concrete Masonry Unit		
CO	Clean Out		
COL	Column		
CONC	Concrete		
CONN	Connection		
CONST	Construction		
CONT	Continuous		
CONTR	Contract(or)		
CP	Condensate Pump		
CPT	Carpet		
CR	Ceiling Register		
CT	Ceramic Tile		
CTR	Center		
CUH	Cabinet Unit Heater		
CW	Cold Water		
D	Diffuser		
DBL	Double		
DET	Detail		
DF	Drinking Fountain		
DIA	Diameter		
DIM	Dimension		
DISP	Dispenser		
DL	Dead Load		
DN	Down		
DO	Ditto		
DP	Distribution Point		
DR	Door		
DWG	Drawing		

GRAPHIC LEGEND	
(XXX)	ROOM NUMBER
(XX)	DOOR NUMBER
(XXX) 2	INTERIOR ELEVATIONS ELEVATION ID SHEET ON WHICH ELEVATION APPEARS
(XX)	WINDOW TYPE
(XX)	WORK SCOPE NOTE
(A)	REVISION MARK
(A)	ACCESSIBILITY SYMBOL
(XX)	EXTERIOR ELEVATIONS ELEVATION ID SHEET ON WHICH ELEVATION APPEARS
(XX)	BUILDING SECTION SECTION ID SHEET ON WHICH SECTION APPEARS
(XX)	WALL SECTION SECTION ID SHEET ON WHICH SECTION APPEARS
(A)	COLUMN LINE GRID
(A)	REFERENCE POINT
(XX)	WALL TYPE

MATERIALS LEGEND	
(Pattern)	CONCRETE
(Pattern)	CONCRETE MASONRY UNITS
(Pattern)	BRICK
(Pattern)	METALS
(Pattern)	COMPACTED GRAVEL
(Pattern)	COMPACTED SOIL
(Pattern)	NEW METAL STUD PARTITION
(Pattern)	EXISTING TO REMAIN, UON
(Pattern)	ITEM TO BE REMOVED, UON
(Pattern)	PLYWOOD
(Pattern)	ACOUSTICAL TILE
(Pattern)	WOOD FRAMING - THROUGH MEMBER
(Pattern)	WOOD FRAMING - BLOCKING
(Pattern)	FINISHED WOOD
(Pattern)	BATT INSULATION
(Pattern)	RIGID INSULATION

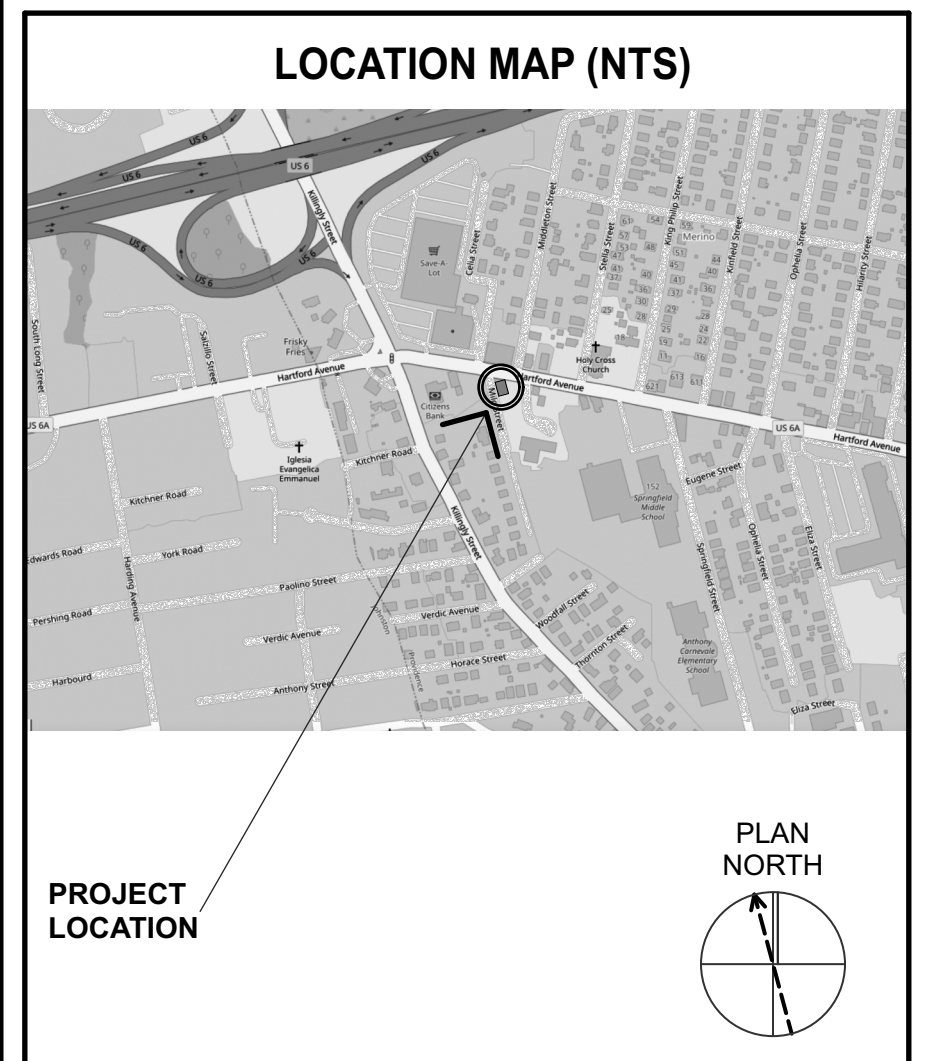
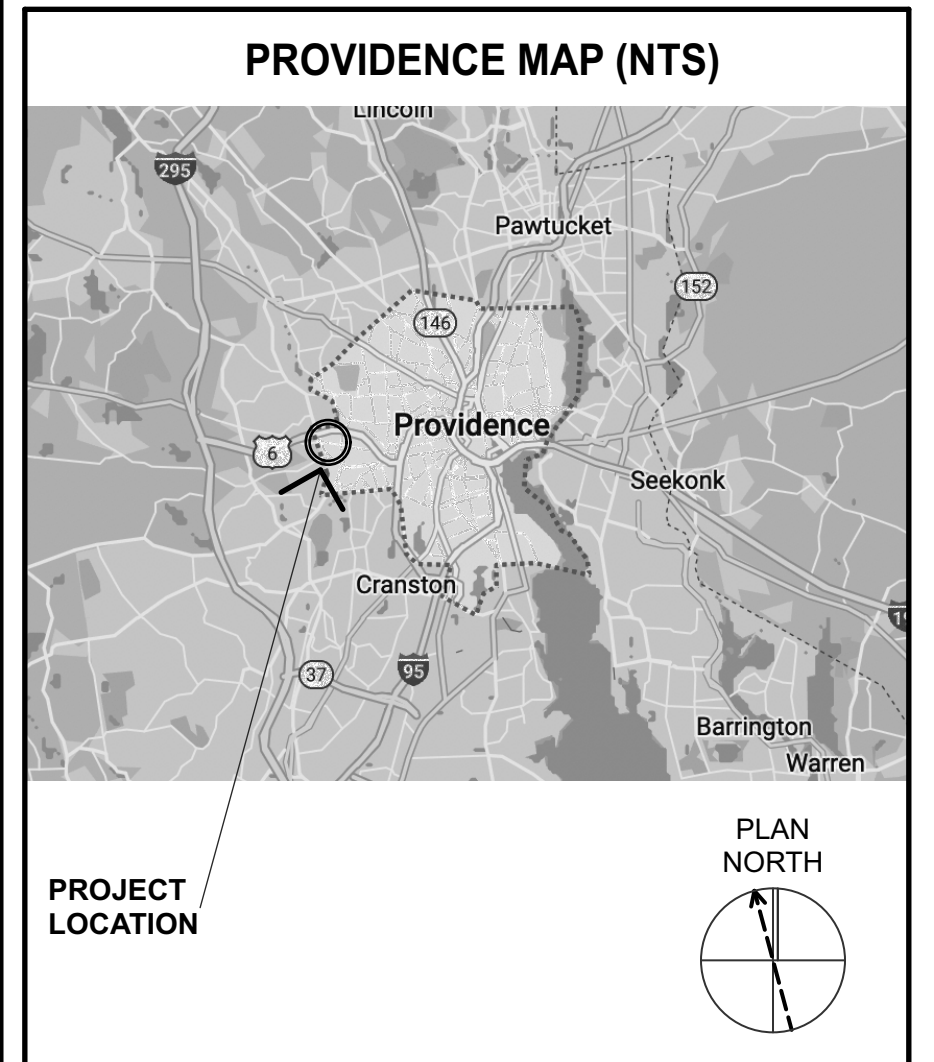
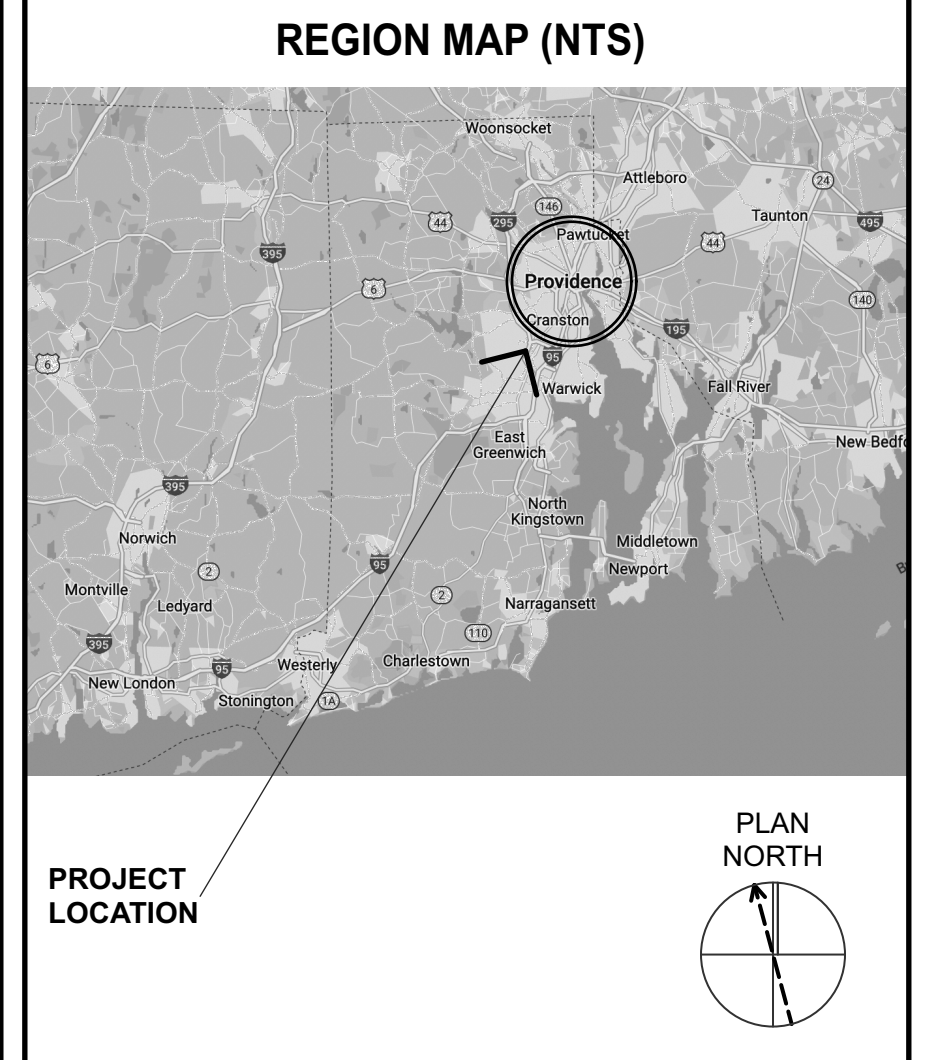
# LAVATORY UPGRADES

662 HARTFORD AVE  
PROVIDENCE, RI

ISSUED: JANUARY 4, 2023

ARCHITECTS:  
NORTHEAST COLLABORATIVE ARCHITECTS, LLC  
650 Ten Rod Road  
North Kingstown RI 02852  
v: 401.846.9538

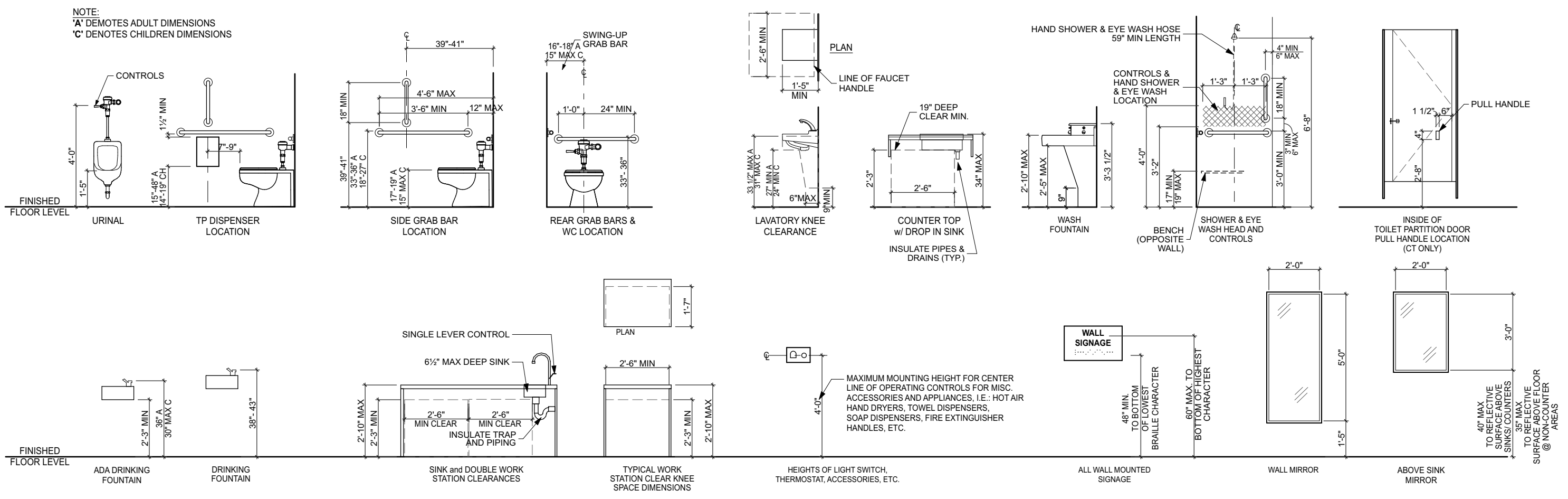
MECHANICAL, ELECTRICAL, PLUMBING  
ANDRE GILL ENGINEERING  
North Smithfield, RI 02896  
v: 401.441.3414



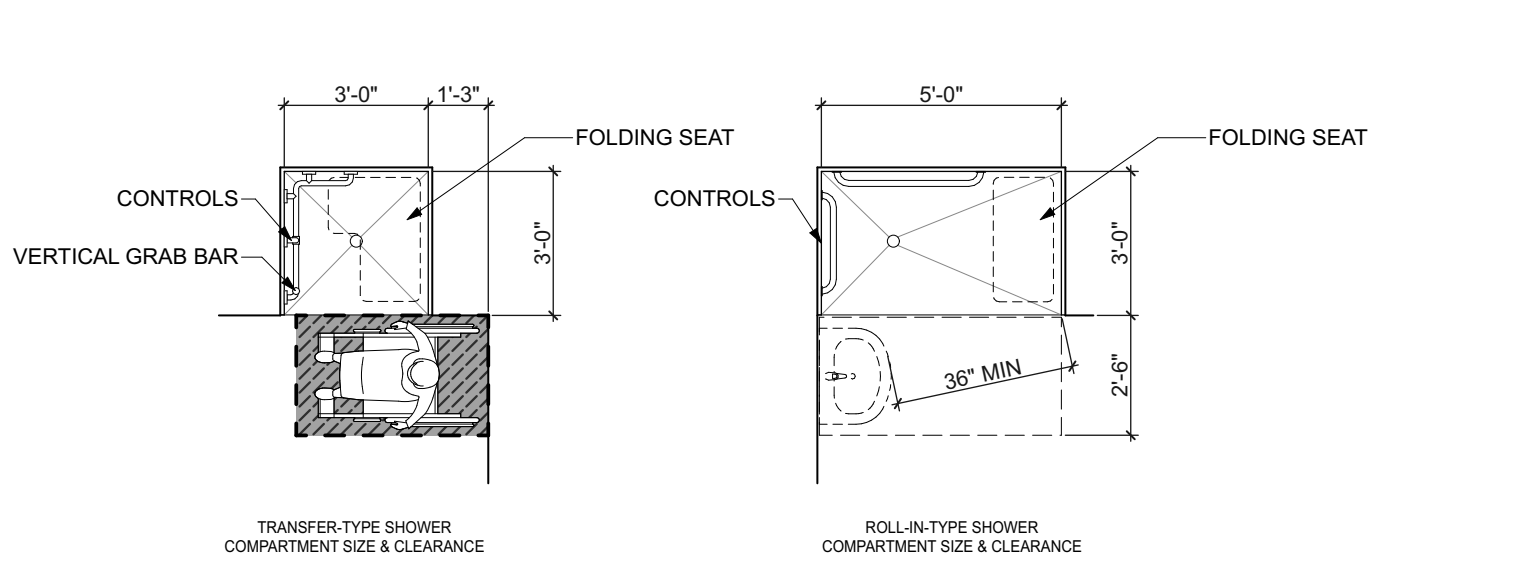
**NCA**  
NORTHEAST COLLABORATIVE ARCHITECTS  
650 Ten Rod Road  
North Kingstown, RI 02852  
v: 401.846.9538

LAVATORY UPGRADES  
662 HARTFORD AVE  
PROVIDENCE, RI

## FIXTURE AND ACCESSORY MOUNTING HEIGHTS



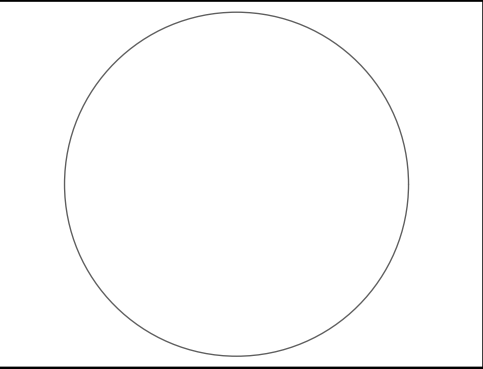
## SHOWER STALL CLEARANCES



## DRAWING LIST

NO.	DESCRIPTION
A-001	INFO SHEET
A-111	CONSTRUCTION & DEMO PLANS
A-112	REFLECTED CEILING & FINISH PLANS
A-601	INTERIOR ELEVATIONS
A-801	WALL TYPES, DETAILS AND SCHEDULES
MO.01	MECHANICAL GENERAL
M3.00	MAIN BATHROOMS
M3.01	STAFF BATHROOMS
M3.2	MECHANICAL ROOM
M5.00	MECHANICAL SCHEDULE
PO.01	PLUMBING GENERAL
P1.00	(D) PLUMBING OVERALL
P1.01	(N) DOMESTIC PLUMBING OVERALL
P1.11	(N) SAN OVERALL PLUMBING
P3.00	MAIN BATHROOMS
P3.01	STAFF BATHROOMS
P3.02	MECHANICAL ROOM
P5.00	PLUMBING SCHEDULE
P5.01	PLUMBING SCHEDULE
E0.01	ELECTRICAL GENERAL NOTES, SYMBOLS, ABBREVIATIONS
E1.00	ELECTRICAL DEMOLITION PLAN
E1.01	ELECTRICAL POWER PLAN
E5.00	DETAILS

## REVISIONS:



## INFO SHEET

DATE: 1-04-2023

NCA JOB NO.: 23070

DRAWING NO.:

**A-001**



**GENERAL NOTES**

1. SEE MEP & FP DRAWINGS FOR ADDITIONAL INFORMATION AND COORDINATION.
2. ALL CONTRACTORS SHALL CONFIRM CLEARANCES NEEDED TO INSTALL THEIR WORK PRIOR TO PROCEEDING. CONTACT ARCHITECT FOR DISCREPANCY RESOLUTION.
3. ALL NEW & EXISTING FLOOR PENETRATIONS SHALL BE SMOKE TIGHT.

**CONSTRUCTION NOTES**

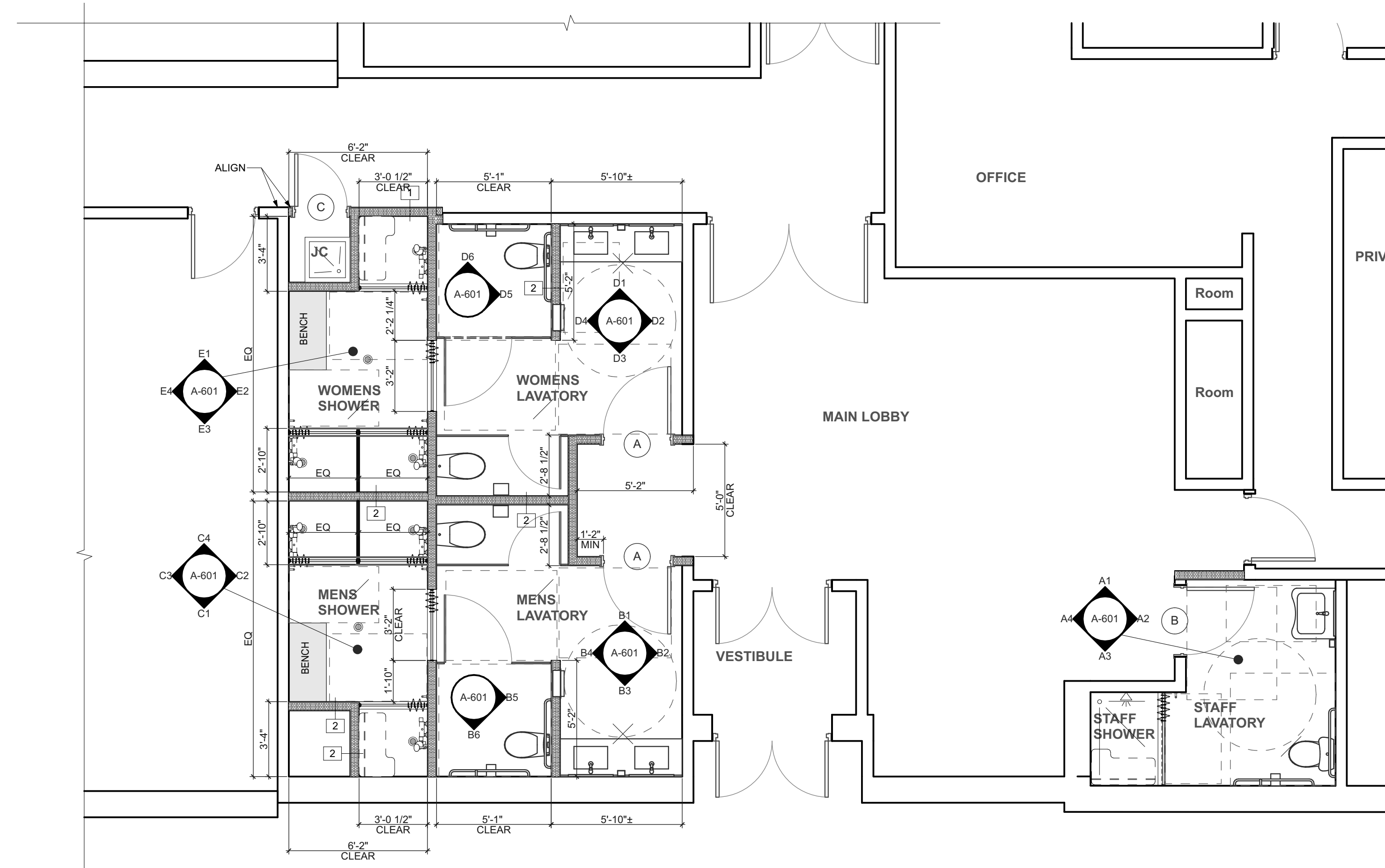
1. ALL INTERIOR STUD PARTITIONS SHALL BE TYPE 1 UNLESS OTHERWISE NOTED
2. ALL INTERIOR PARTITIONS TO EXTEND TO UNDERSIDE OF ROOF DECKING. ALL STRUCTURAL PENETRATIONS THROUGH WALLS SHALL BE ACOUSTICALLY SEALED.
3. PROVIDE BLOCKING FOR ALL WALL MOUNTED MILLWORK.
4. ALL CMU, STUDS AND GYP BD SHALL BE 1" CLEAR OF STEEL STRUCTURE OR STRUCTURAL ITEMS U.O.N.
5. ALL DIMENSIONS ARE TO FACE OF WALL UNLESS OTHERWISE NOTED

**FLOOR PLAN LEGEND**

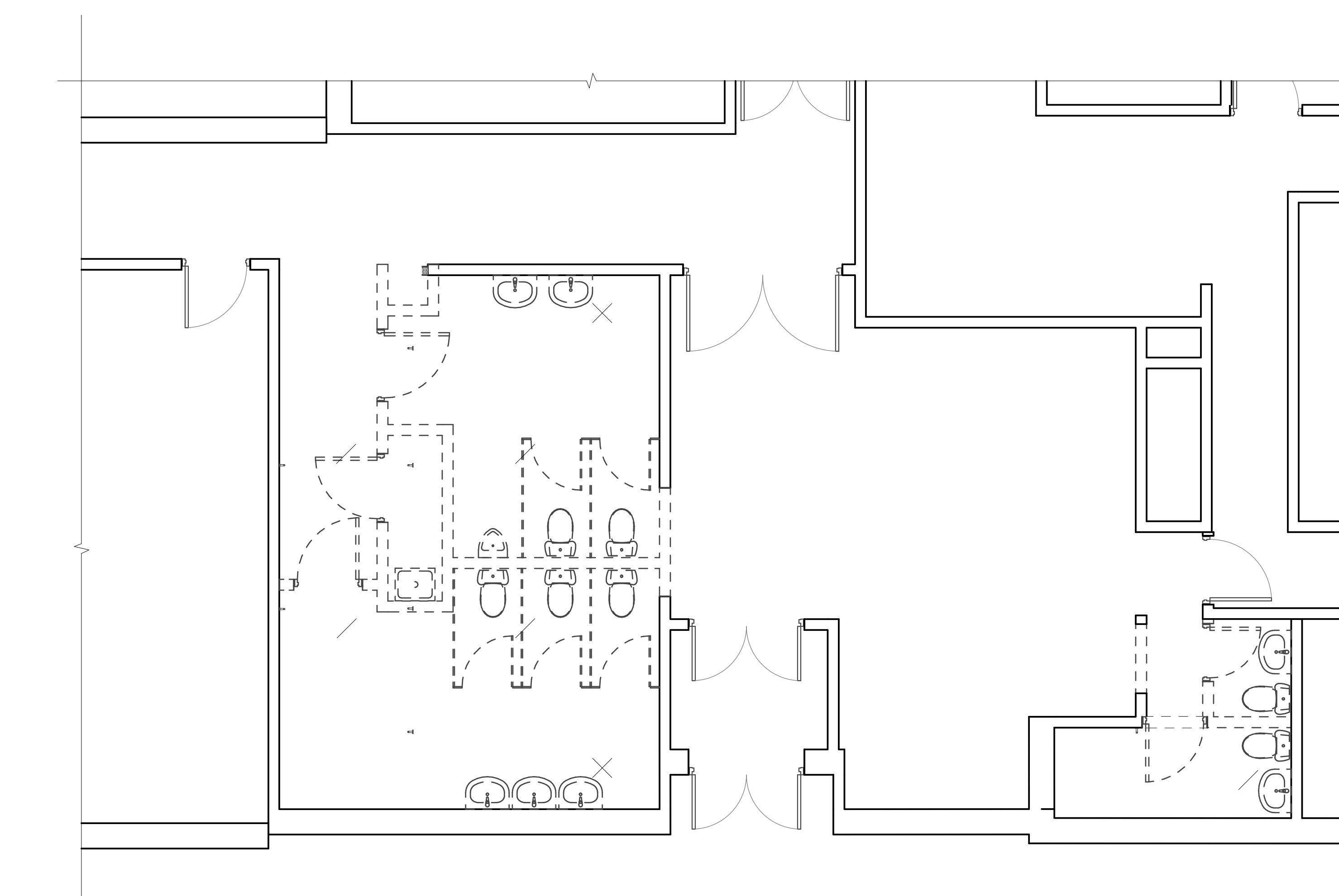
- EXISTING
- NEW

**GENERAL DEMOLITION NOTES**

1. SEE MEP & FP DRAWINGS FOR ADDITIONAL INFORMATION AND COORDINATION.
2. CONTRACTOR SHALL COORDINATE ALL ARCHITECTURAL, MECHANICAL, AND PLUMBING DEMOLITION DRAWINGS PRIOR TO COMMENCEMENT OF DEMOLITION.
3. DRAWINGS DO NOT PURPORT TO SHOW ALL OBJECTS EXISTING AT THE SITE. BEFORE WORK IS TO COMMENCE, CONTRACTOR TO FIELD VERIFY ALL (V.I.F.) EXISTING CONDITIONS AND ELEMENTS TO BE PRESERVED AND REPORT TO THE ARCHITECT ANY DISCREPANCIES OR QUESTIONABLE ITEMS FOR DISCREPANCY RESOLUTION.
4. DEMOLITION OF UTILITIES TO BE INVESTIGATED AS TO SOURCE AND LAST SERVICE PRIOR TO DEMOLITION.
5. THE CONTRACTOR SHALL USE ALL MEANS NECESSARY TO PROTECT AND PRESERVE EXISTING CONDITIONS AND OBJECTS DESIGNATED TO REMAIN. IN THE EVENT OF DAMAGE, IMMEDIATELY MAKE ALL REPAIRS AND REPLACEMENTS NECESSARY.
6. PRIOR TO COMMENCING THE WORK, THE CONTRACTOR SHALL REVIEW EXISTING UTILITIES AT THE SITE AND DETERMINE METHODS FOR DISCONNECTING, CAPPING REMOVING OR PROTECTING SAME, IN ACCORDANCE WITH THE REQUIREMENTS OF THE UTILITY COMPANY.
7. THE CONTRACTOR SHALL REMOVE, RE-ROUTE AND/OR CAP OFF ALL UNUSED UTILITIES COMING INTO THE SPACE. ALL EXISTING UTILITIES SHALL BE CAPPED OFF OUTSIDE OF BUILDING - SEE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
8. NOTIFY THE ARCHITECT AT LEAST (2) TWO FULL DAYS PRIOR TO COMMENCING DEMOLITION WORK.
9. PATCH ALL HOLES IN REMAINING CONSTRUCTION WITH NEW MATERIALS THAT MATCH EXISTING. (INCLUDING PIPE HOLES, CONDUIT HOLES, ETC.)
10. DEMOLISHED PLUMBING FIXTURES ARE TO INCLUDE ALL WATER AND WASTE LINES, ALL FLANGES AND ATTACHMENTS.
11. THE CONTRACTOR SHALL TAKE CARE TO PREVENT DAMAGE TO EXISTING ITEMS TO REMAIN. ALL CUTTING IN WALLS/SLAB TO REMAIN SHALL BE DONE WITH MINIMAL DAMAGE TO ADJACENT AREAS/SURFACES.
12. PROVIDE TEMPORARY SHORING AS REQUIRED AT ALL DEMOLITION AREAS THAT REMOVE EXISTING STRUCTURAL MEMBERS.
13. THE CONTRACTOR IS RESPONSIBLE FOR SITE SAFETY INCLUDING TEMPORARY FLOOR AND RAILINGS AT ALL NEWLY CREATED FLOOR OPENINGS.
14. CONTRACTOR TO VISIT SITE TO DETERMINE MAKE-UP OF ITEMS TO BE REMOVED, AND APPROPRIATE METHODS FOR THEIR REMOVAL.
15. COORDINATE ANY SITE EXCAVATION DUE TO NEW WASTE/SEWER/WATER LINES WITH PLUMBING DRAWINGS.
16. DEMOLITION CONTRACTOR SHALL PROVIDE WALL & FLOOR PROTECTION AS REQUIRED TO NOT DAMAGE SAME.
17. RETURN ALL REUSABLE DEMOLISHED ITEMS TO OWNER U.O.N. OR AS PER OWNER'S INSTRUCTIONS.
18. ALL ITEMS TO REMAIN SHALL BE LEFT IN 'AS FOUND' CONDITION.
19. REMOVE ALL DOORS & FRAMES & WALL MTD ACCESSORIES FROM REMOVED PARTITIONS.



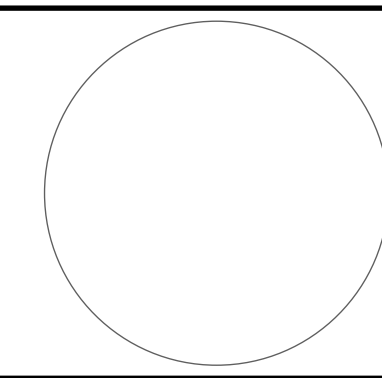
**C3 LAVATORY PLAN**  
SCALE: 1/4" = 1'-0"



**A3 LAVATORY DEMO PLAN**  
SCALE: 1/4" = 1'-0"

**LAVATORY UPGRADES  
662 HARTFORD AVE  
PROVIDENCE, RI**

REVISIONS:



**CONSTRUCTION & DEMO PLANS**

DATE: 1-04-2023

NCA JOB NO.: 23070

DRAWING NO.:

**A-111**



**GENERAL NOTES**

1. SEE MEP & FP DRAWINGS FOR ADDITIONAL INFORMATION AND COORDINATION.
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5. ALL DIMENSIONS ARE TO FACE OF WALL UNLESS OTHERWISE NOTED

**REFLECTED CEILING NOTES**

1. ALL LIGHT FIXTURES & CEILING GRIDS SHALL BE CENTERED IN ROOMS UON.
2. ALL ACP SHALL BE ACP-1 UON.
3. CENTER ALL CEILING MOUNTED OBJECTS IN CEILING PANEL/PATTERN UON.
4. HANGERS SHALL BE SECURELY ATTACHED TO STRUCTURE ABOVE. WIRE HANGERS SHALL NOT BE LESS THAN 12 GA. AND SHALL BE SADDLE TIED TO MAIN RUNNERS.
5. ALL EQUIPMENT ITEMS SHALL BE INDEPENDENTLY SUSPENDED AND NOT CONNECTED TO THE CEILING GRID.
6. CEILING SUSPENSION SYSTEM SHALL NOT BE USED TO SUPPORT LIGHT FIXTURES, DUCTWORK, PIPING, ETC.

**FLOOR PLAN LEGEND**

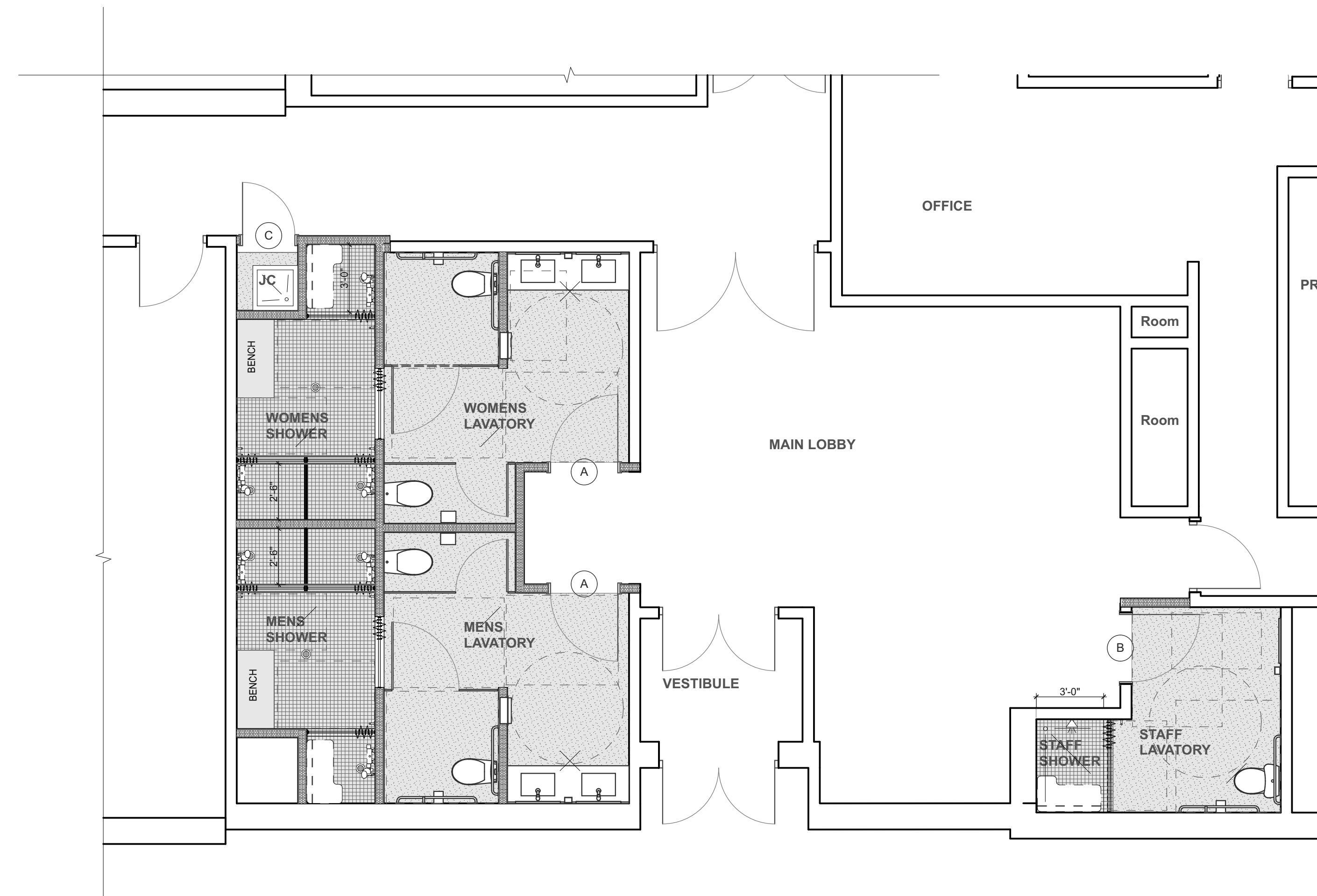
- EXISTING
- NEW

**REFLECTED CEILING NOTES**

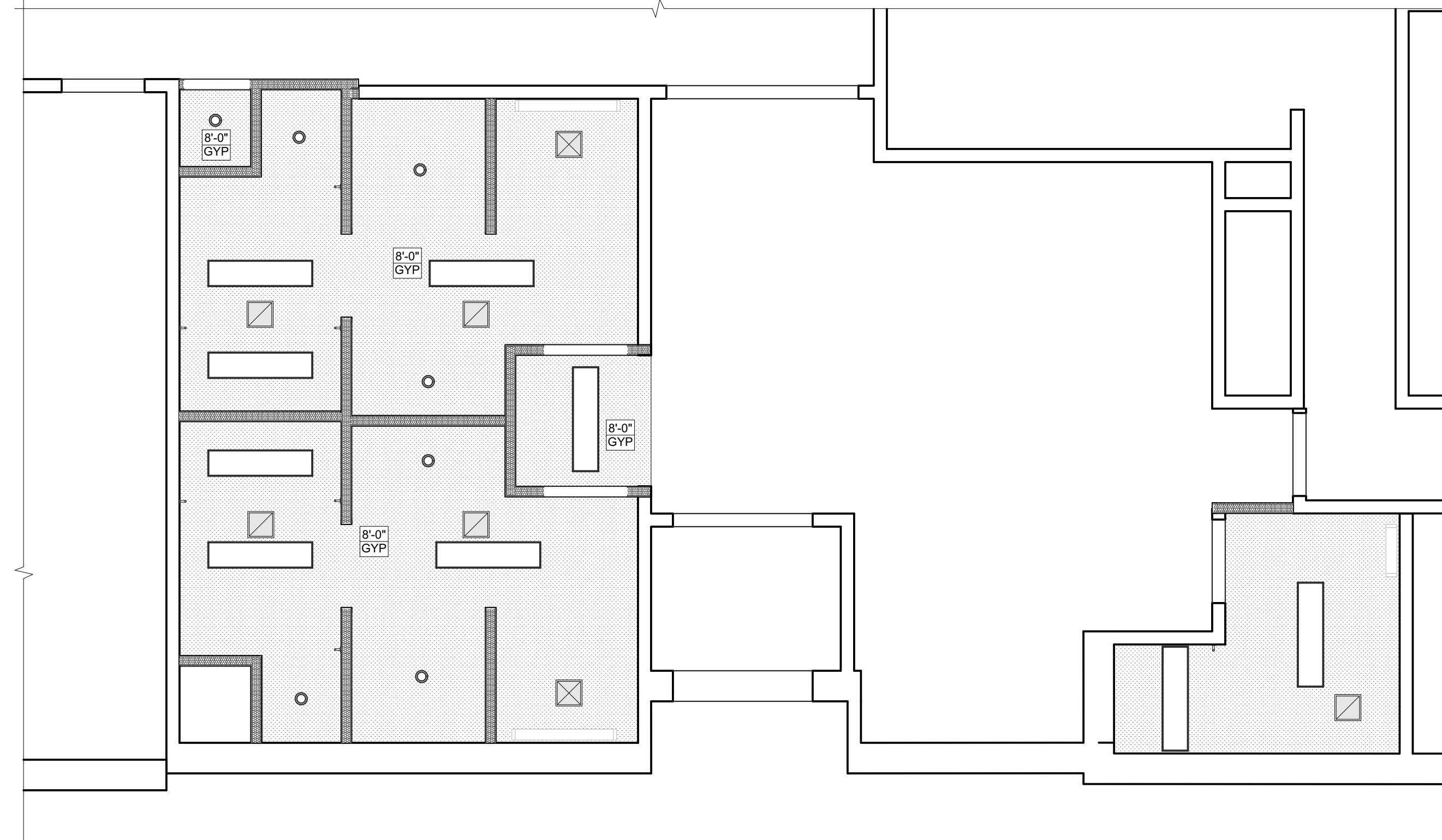
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**LEGEND**

- | SYMBOL | NAME                        |
|--------|-----------------------------|
|        | ACOUSTICAL CEILING PANEL    |
|        | GYP SUM BOARD CEILING       |
|        | RECESSED FLUORESCENT LIGHTS |
|        | RECESSED DOWN LIGHT         |
|        | BLINDS                      |
|        | PENDANT FIXTURE             |
|        | WALL MOUNTED FIXTURE        |
|        | WALL MOUNTED FIXTURE        |

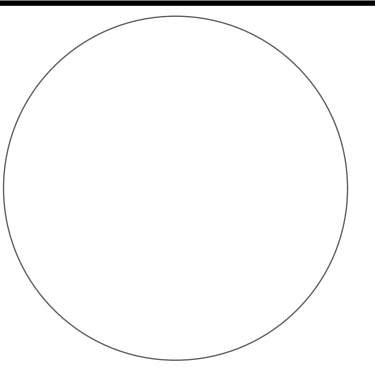


**C3 LAVATORY FINISH PLAN**  
SCALE: 1/4" = 1'-0"



**A3 LAVATORY REFLECTED CEILING PLAN**  
SCALE: 1/4" = 1'-0"

REVISIONS:



**RCP, FINISH PLANS**

DATE: 1-04-2023

NCA JOB NO.: 23070

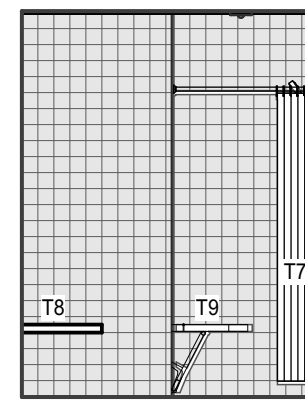
DRAWING NO.:

**A-112**

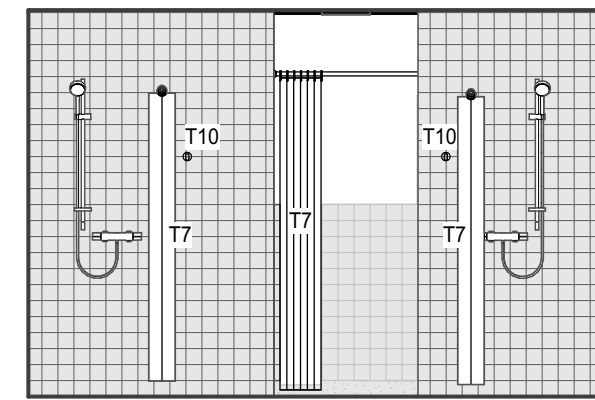


TOILET/SHOWER ACCESSORY SCHEDULE	
T #	DESCRIPTION
T-1	GRAB BARS - Bobrick B-6806.99 Series
T-2	MIRROR - Bobrick B-290 Series
T-3	SOAP DISPENSER - Genuine Joe 85133
T-4	TOILET PAPER HOLDER - Tork Twin Mini Jumbo Toilet Paper Dispenser, Black, T2.
T-5	PAPER TOWEL DISPENSER - Bobrick B-262
T-6	TRASH RECEPTICAL - Bobrick B-3644
T-7	SHOWER CURTAIN AND ROD - Bobrick B-6047 & Bobrick 204-x
T-8	BENCH - Salisbury Wood ADA Bench 42"W x 18"H x 20" D, #77781-ADA-LGT
T-9	SHOWER SEAT - Bobrick B-5181
T-10	HOOK - Bobrick B-6707

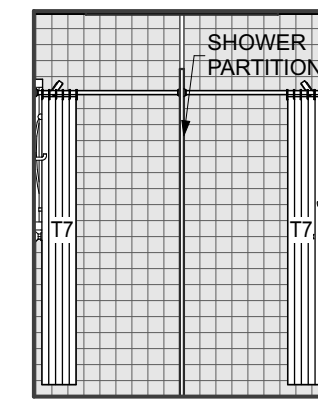
NOTE: ANCHOR ALL TOILET ACCESSORIES INTO SOLID WOOD BLOCKING.



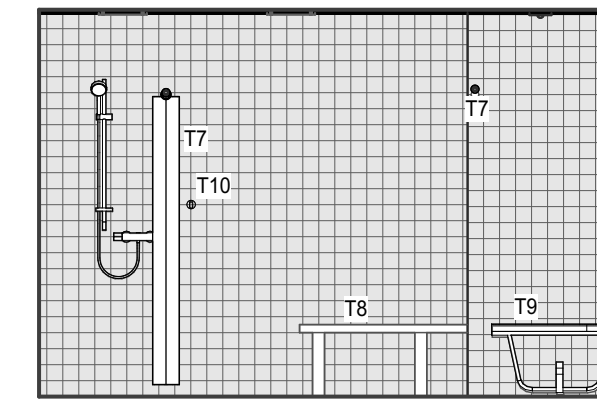
**E1 WOMENS SHOWERS**  
A-601 SCALE: 1/4" = 1'-0"



**E2 WOMENS SHOWERS**  
A-601 SCALE: 1/4" = 1'-0"



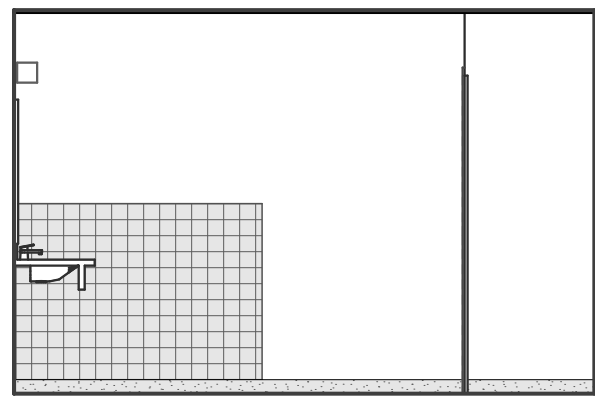
**E3 WOMENS SHOWERS**  
A-601 SCALE: 1/4" = 1'-0"



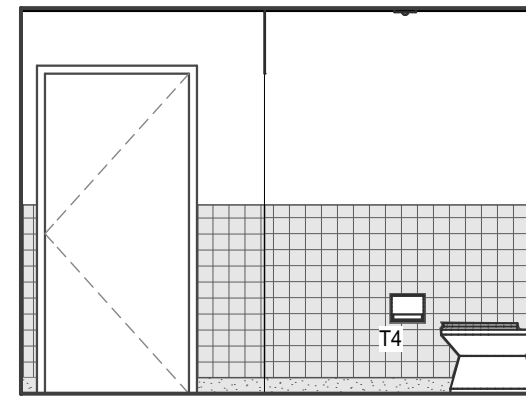
**E4 WOMENS SHOWERS**  
A-601 SCALE: 1/4" = 1'-0"



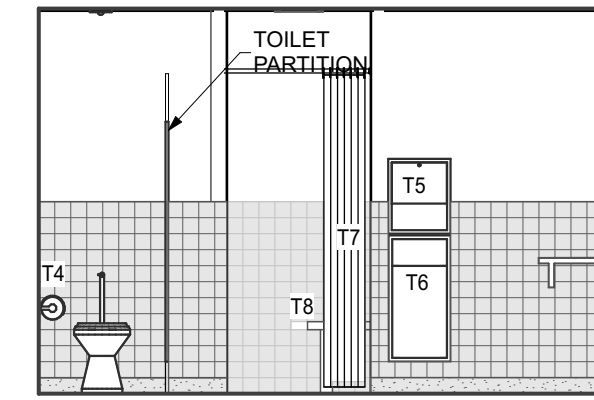
**D1 WOMENS LAVATORY**  
A-601 SCALE: 1/4" = 1'-0"



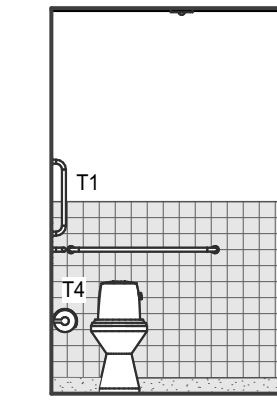
**D2 WOMENS LAVATORY**  
A-601 SCALE: 1/4" = 1'-0"



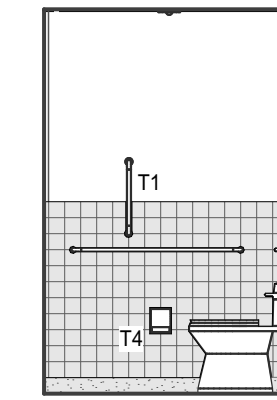
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A-601 SCALE: 1/4" = 1'-0"



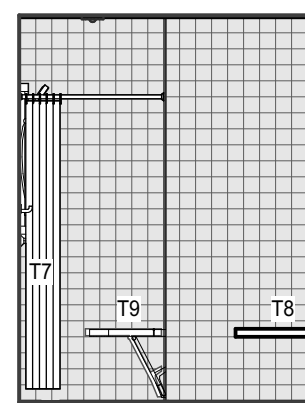
**D4 WOMENS LAVATORY**  
A-601 SCALE: 1/4" = 1'-0"



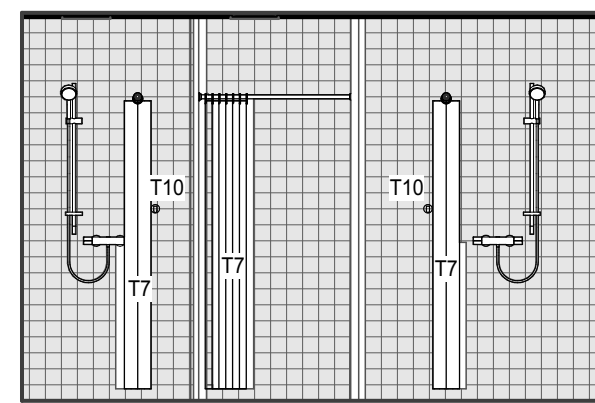
**D5 WOMENS HC TOILET**  
A-601 SCALE: 1/4" = 1'-0"



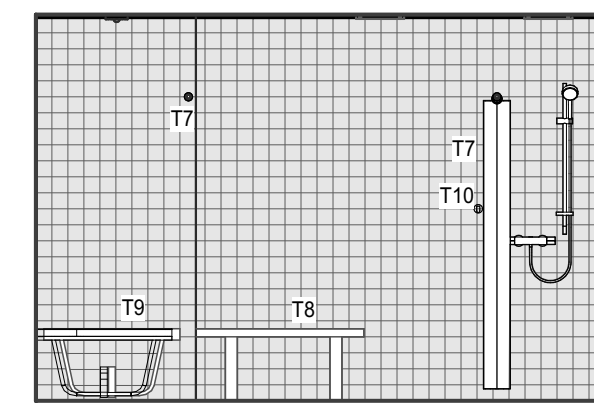
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A-601 SCALE: 1/4" = 1'-0"



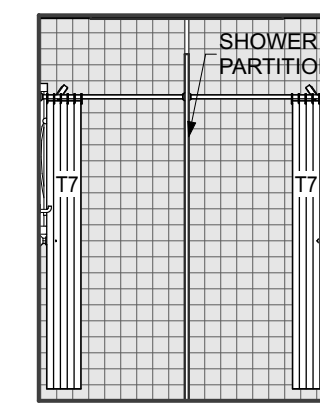
**C1 MENS SHOWERS**  
A-601 SCALE: 1/4" = 1'-0"



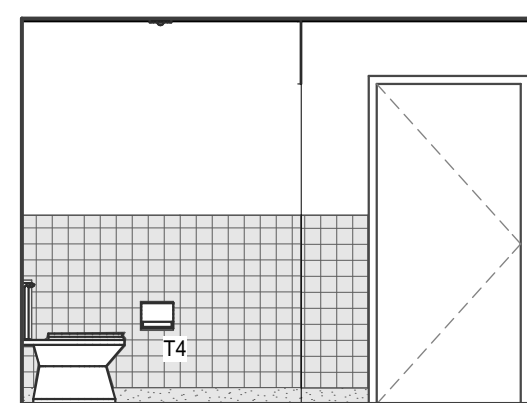
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A-601 SCALE: 1/4" = 1'-0"



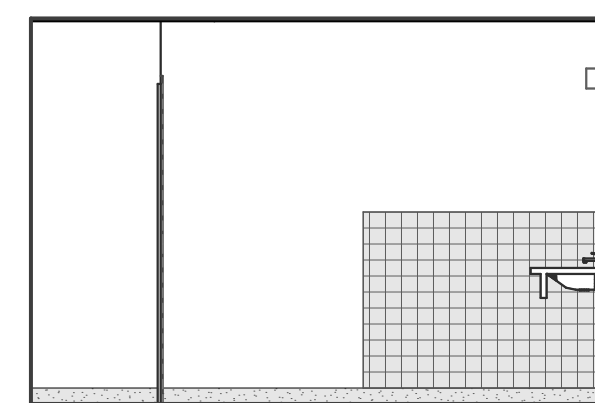
**C3 MENS SHOWERS**  
A-601 SCALE: 1/4" = 1'-0"



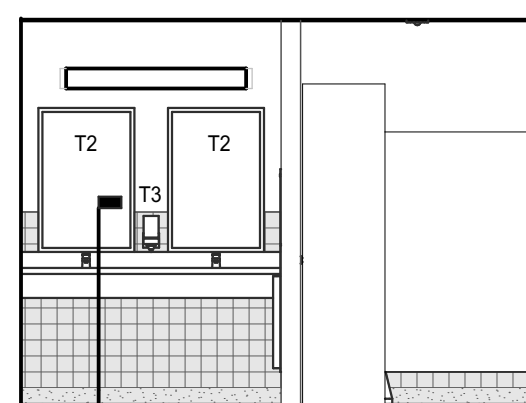
**C4 MENS SHOWERS**  
A-601 SCALE: 1/4" = 1'-0"



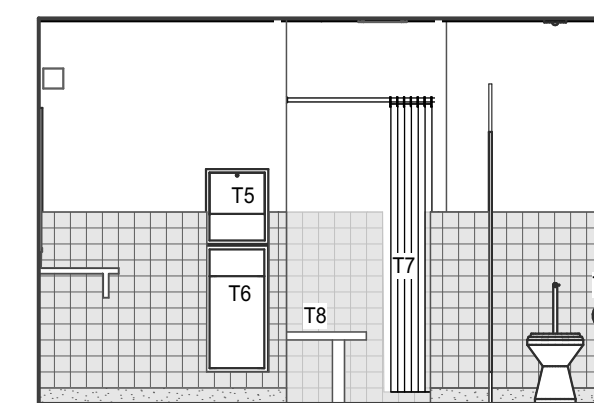
**B1 MENS LAVATORY**  
A-601 SCALE: 1/4" = 1'-0"



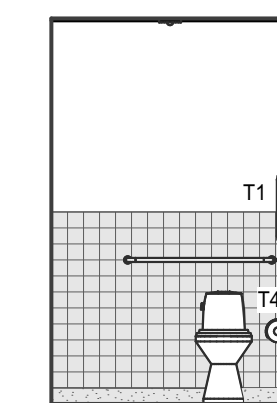
**B2 MENS LAVATORY**  
A-601 SCALE: 1/4" = 1'-0"



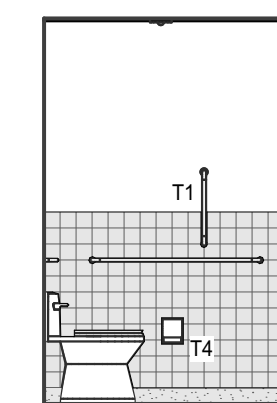
**B3 MENS LAVATORY**  
A-601 SCALE: 1/4" = 1'-0"



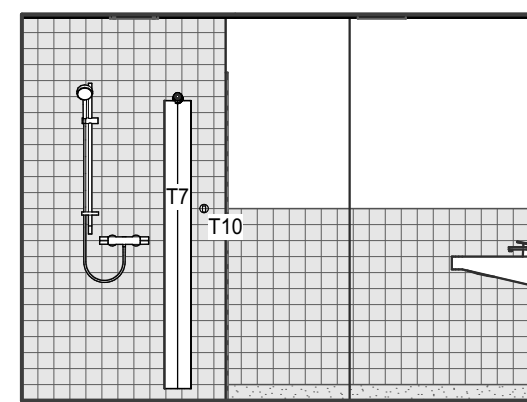
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A-601 SCALE: 1/4" = 1'-0"



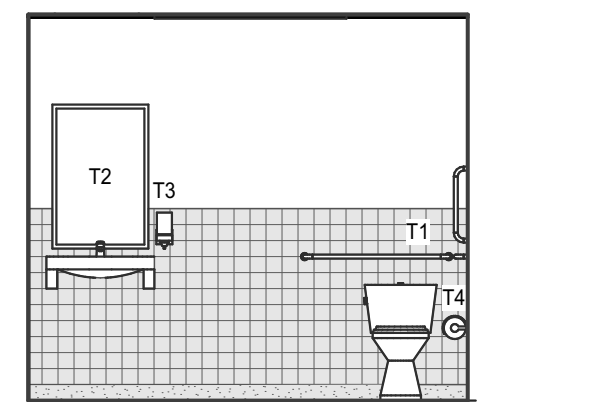
**B5 MENS HC TOILET**  
A-601 SCALE: 1/4" = 1'-0"



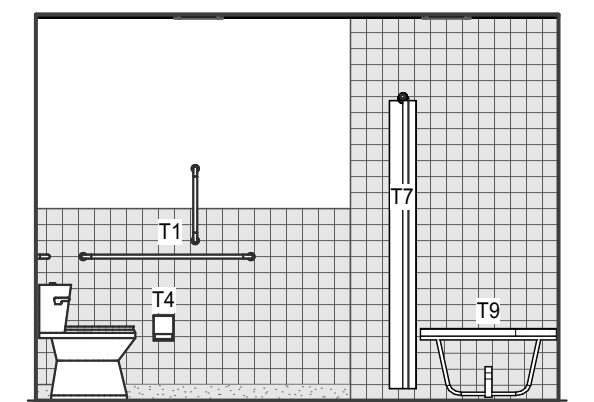
**B6 MENS HC TOILET**  
A-601 SCALE: 1/4" = 1'-0"



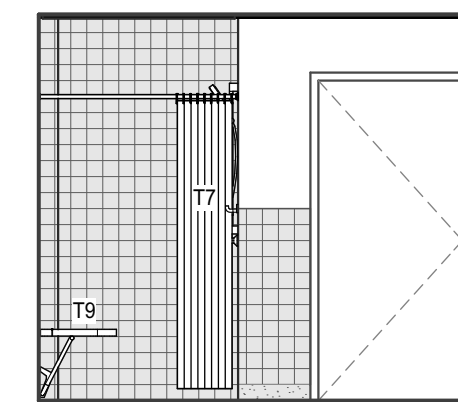
**A1 STAFF LAVATORY**  
A-601 SCALE: 1/4" = 1'-0"



**A2 STAFF LAVATORY**  
A-601 SCALE: 1/4" = 1'-0"



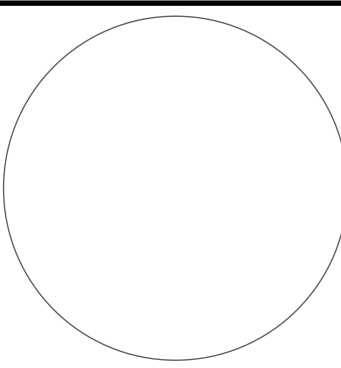
**A3 STAFF LAVATORY**  
A-601 SCALE: 1/4" = 1'-0"



**A4 STAFF LAVATORY**  
A-601 SCALE: 1/4" = 1'-0"

**LAVATORY UPGRADES  
662 HARTFORD AVE  
PROVIDENCE, RI**

REVISIONS:



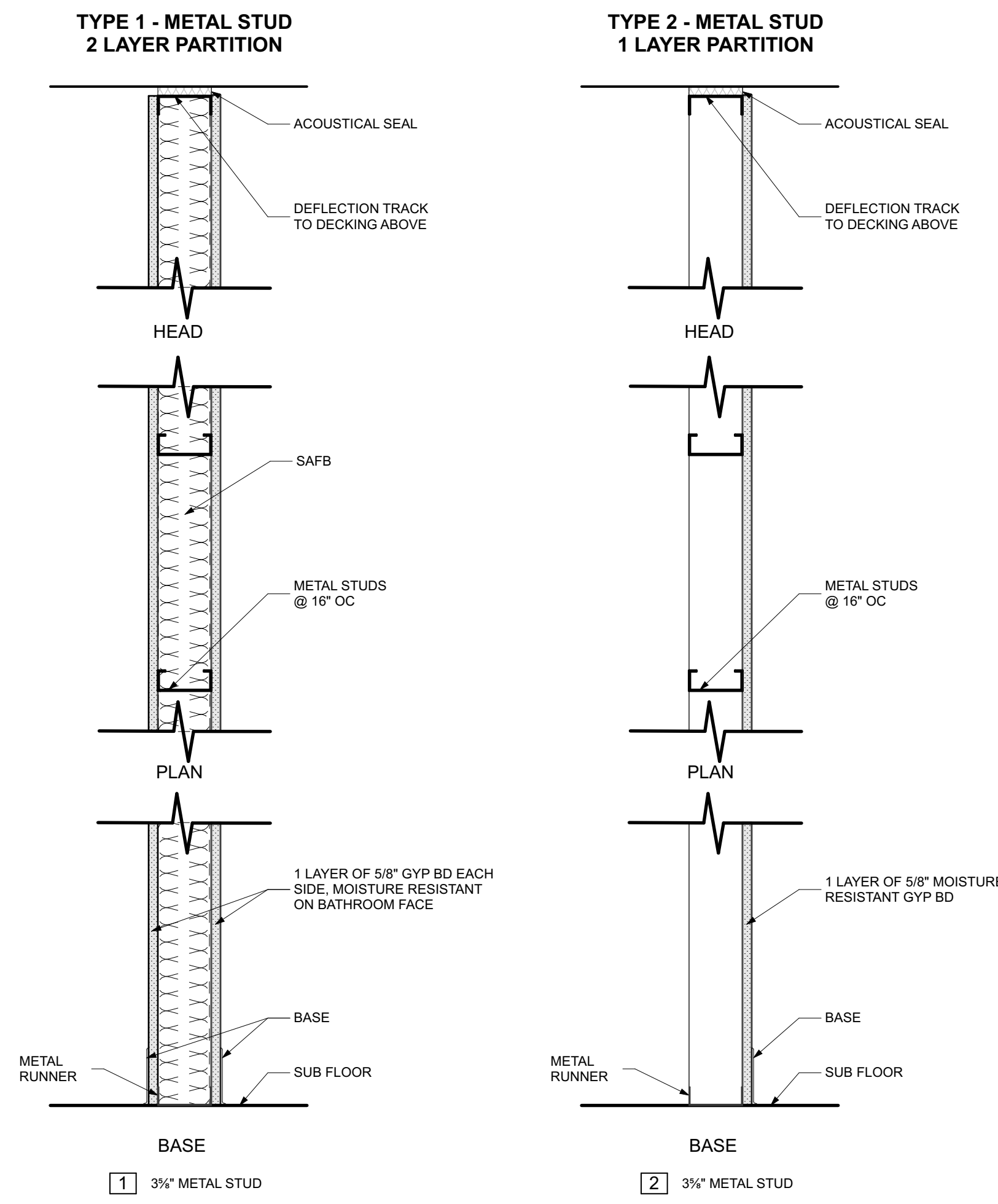
**INTERIOR  
ELEVATIONS**

DATE: 1-04-2023

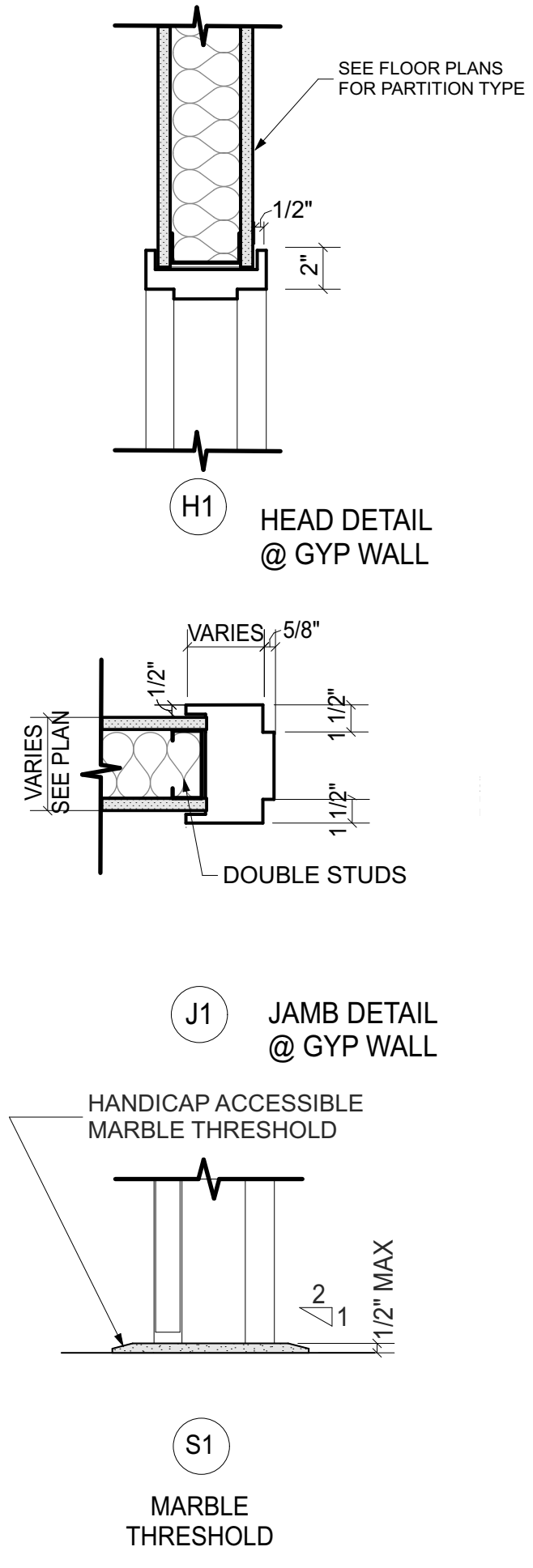
NCA JOB NO.: 23070

DRAWING NO.:

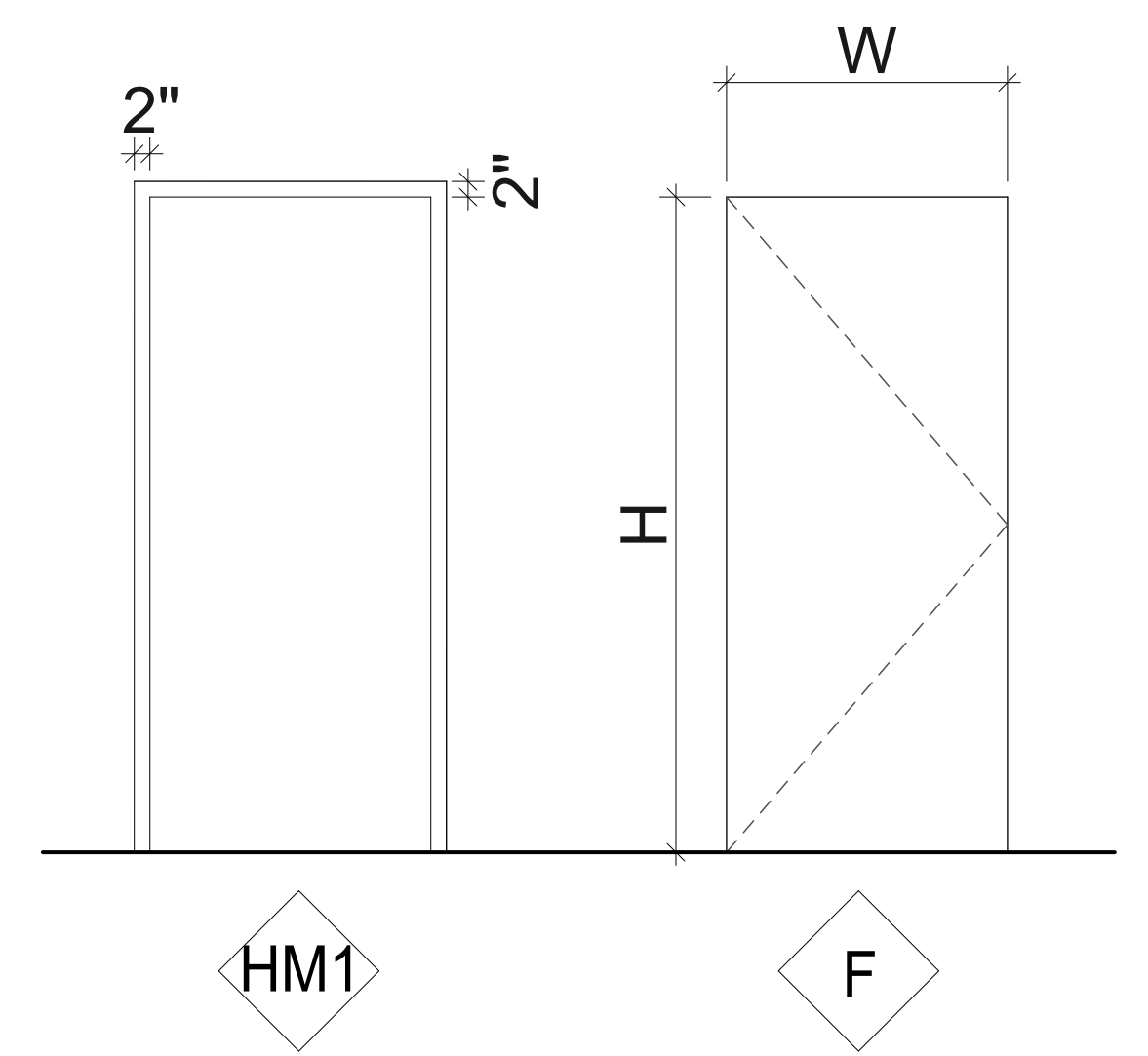
**A-601**



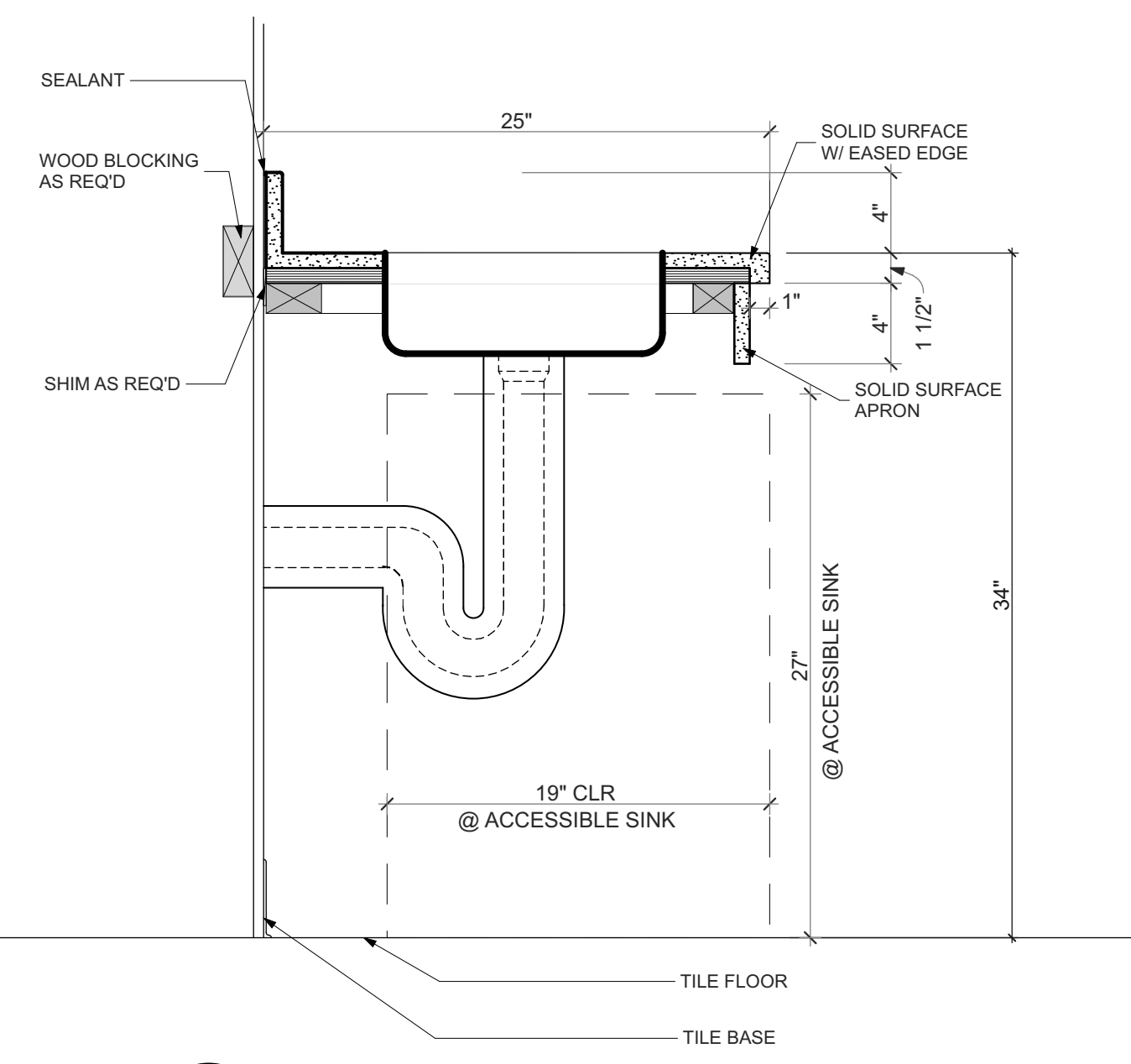
**C1** WALL TYPES  
SCALE: 1 1/2" = 1'-0"



**C2** DOOR DETAILS  
SCALE: 1 1/2" = 1'-0"



**C4** DOOR ELEVATIONS  
SCALE: 1/2" = 1'-0"



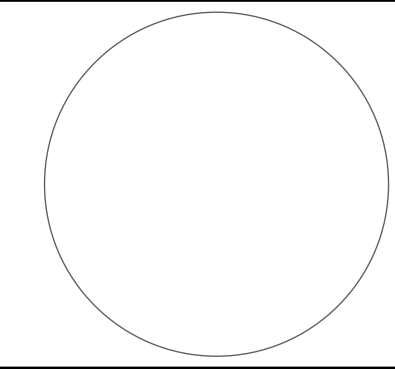
**B5** ACCESSIBLE SINK DETAIL  
SCALE: 1 1/2" = 1'-0"

DOOR SCHEDULE																
DOOR NUMBER	ROOM	ID	STATUS	DOOR			FRAME			HARDWARE SET	SIGNAGE	NOTES				
				NOMINAL WIDTH	NOMINAL HEIGHT	LEAF THICKNESS	MATERIAL	ELEV	MATERIAL				ELEV	HEAD	JAMB	SADDLE
WOMEN'S LAVATORY	A	A	NEW	3'-0"	7'-0"	1 3/4"	WOOD	F	HM	HM1	H1	J1	S1	1	WOMEN'S LAVATORY	PAINTE FRAME
MEN'S LAVATORY	A	A	NEW	3'-0"	7'-0"	1 3/4"	WOOD	F	HM	HM1	H1	J1	S1	1	MEN'S LAVATORY	PAINTE FRAME
STAFF LAVATORY	B	B	NEW	3'-0"	7'-0"	1 3/4"	WOOD	F	HM	HM1	H1	J1	S1	2	LAVATORY	PAINTE FRAME
JANITOR'S CLOSET	C	C	NEW	2'-4"	7'-0"	1 3/4"	WOOD	F	HM	HM1	H1	J1	S1	3	JANITORS' CLOSET	PAINTE FRAME

ROOM NAME	FINISH SCHEDULE														
	FLOOR		BASE	WALLS								CEILING			
	SUBSTRATE	FINISH MATERIAL	FINISH MATERIAL	NORTH		EAST		SOUTH		WEST		SUBSTRATE	FINISH MATERIAL		
WOMEN'S LAVATORY	CONC.	EPOXY	TILE	MR GYP	PAINTE, 4" x 4" TILE BOTTOM 4'	MR GYP	PAINTE, 4" x 4" TILE BOTTOM 4'	MR GYP	PAINTE, 4" x 4" TILE BOTTOM 4'	MR GYP	PAINTE, 4" x 4" TILE BOTTOM 4'	MR GYP	PAINTE, 4" x 4" TILE BOTTOM 4'	MR GYP	PAINTE
WOMEN'S SHOWER	CONC.	2" x 2" TILE	TILE	MR GYP	TILE	MR GYP	TILE	MR GYP	TILE	MR GYP	TILE	MR GYP	TILE	MR GYP	PAINTE
MEN'S LAVATORY	CONC.	EPOXY	TILE	MR GYP	PAINTE, 4" x 4" TILE BOTTOM 4'	MR GYP	PAINTE, 4" x 4" TILE BOTTOM 4'	MR GYP	PAINTE, 4" x 4" TILE BOTTOM 4'	MR GYP	PAINTE, 4" x 4" TILE BOTTOM 4'	MR GYP	PAINTE, 4" x 4" TILE BOTTOM 4'	MR GYP	PAINTE
MEN'S SHOWER	CONC.	2" x 2" TILE	TILE	MR GYP	TILE	MR GYP	TILE	MR GYP	TILE	MR GYP	TILE	MR GYP	TILE	MR GYP	PAINTE
STAFF LAVATORY	CONC.	EPOXY	TILE	MR GYP	PAINTE, 4" x 4" TILE BOTTOM 4'	MR GYP	PAINTE, 4" x 4" TILE BOTTOM 4'	MR GYP	PAINTE, 4" x 4" TILE BOTTOM 4'	MR GYP	PAINTE, 4" x 4" TILE BOTTOM 4'	MR GYP	PAINTE, 4" x 4" TILE BOTTOM 4'	MR GYP	PAINTE
STAFF SHOWER	CONC.	2" x 2" TILE	TILE	MR GYP	PAINTE, 4" x 4" TILE BOTTOM 4'	MR GYP	PAINTE, 4" x 4" TILE BOTTOM 4'	MR GYP	PAINTE, 4" x 4" TILE BOTTOM 4'	MR GYP	PAINTE, 4" x 4" TILE BOTTOM 4'	MR GYP	PAINTE, 4" x 4" TILE BOTTOM 4'	MR GYP	PAINTE
JANITOR'S CLOSET	CONC.	EPOXY	TILE	MR GYP	PAINTE	MR GYP	PAINTE	MR GYP	PAINTE	MR GYP	PAINTE	MR GYP	PAINTE	MR GYP	PAINTE

**LAVATORY UPGRADES  
662 HARTFORD AVE  
PROVIDENCE, RI**

REVISIONS:



**WALL TYPES,  
MILLWORK &  
SCHEDULES**

DATE: 1-04-2023

NCA JOB NO.: 23070

DRAWING NO.:

**A-801**

**GENERAL NOTES:**

- THE FOLLOWING GENERAL NOTES APPLY TO ELECTRICAL DRAWINGS.
- INSTALLATION OF ELECTRICAL MATERIAL SHALL CONFORM WITH LOCAL REGULATIONS AND THE 2022 NATIONAL ELECTRICAL CODE (NEC), RHODE ISLAND BUILDING CODE, AND OTHER GOVERNING CODES AND ORDINANCES.
- ELECTRICAL EQUIPMENT SHALL BE NRTL LABELED.
- THE CONTRACTOR SHALL VISIT THE SITE INCLUDING AREAS INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND BY SUBMITTING A BID ACCEPTS CONDITIONS UNDER WHICH THE CONTRACTOR SHALL BE REQUIRED TO PERFORM THE WORK.
- THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AT THE SITE. IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COMPLETE SET OF DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL CHECK THE DRAWINGS OF THE OTHER TRADES AND SHALL CAREFULLY READ THE ENTIRE SPECIFICATIONS AND DETERMINE RESPONSIBILITIES. FAILURE TO DO SO SHALL NOT RELEASE THE CONTRACTOR FROM DOING THE WORK IN COMPLETE ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL SECURE AND PAY FOR PERMITS AND FEES NECESSARY FOR EXECUTION AND COMPLETION OF ELECTRICAL WORK, INCLUDING CHARGES BY THE LOCAL GOVERNMENT AGENCIES.
- THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AT THE SITE. COSTS TO ROUTE CONDUIT OTHER THAN AS SHOWN ON THE PLANS SHALL BE INCURRED BY THE CONTRACTOR.
- WHEREVER A DISCREPANCY IN QUANTITY OR SIZE OF CONDUIT, WIRE, EQUIPMENT DEVICES, CIRCUIT BREAKERS, TRANSFORMERS, GROUND FAULT PROTECTION SYSTEM, ETC. (MATERIALS, ARISING ON THE DRAWINGS AND/OR SPECIFICATIONS), THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING MATERIAL AND SERVICES REQUIRED BY THE STRICTEST CONDITIONS NOTED ON DRAWINGS AND/OR IN THE SPECIFICATIONS TO ENSURE COMPLETE AND OPERABLE SYSTEMS AS REQUIRED BY THE OWNER OR ENGINEER.
- CONDUIT SIZES ARE BASED ON COPPER CONDUCTORS WITH THHN/THWN-2 INSULATION UNLESS OTHERWISE NOTED. CONDUCTORS SHALL BE COPPER. CONDUCTOR INSULATION SHALL BE THHN/THWN-2 UNLESS OTHERWISE NOTED.
- CONDUIT RUNS SHOWN ARE DIAGRAMMATIC ONLY. INSTALL CONDUITS TO SUIT FIELD CONDITIONS.
- INSTALL EQUIPMENT, DEVICES, CONDUIT AND CONDUIT SUPPORTS TO MEET SEISMIC CATEGORY "D" REQUIREMENTS.
- PROVIDE PROPERLY SIZED LUGS AT CIRCUIT BREAKER PANELS, FOR THE CONDUCTORS SHOWN TO CONNECT TO THESE LUGS.
- INSTALL EXTERIOR MOUNTED ELECTRICAL EQUIPMENT IN WEATHERPROOF, NEMA 3R ENCLOSURES.
- SEPARATE INSULATED EQUIPMENT GROUNDING CONDUCTOR, SIZED PER NEC TABLE 250.122, SHALL BE PROVIDED, INSTALLED IN THE SAME CONDUIT AS THE CIRCUIT CONDUCTORS, FOR FEEDER AND BRANCH CIRCUITS.
- THE CONTRACTOR SHALL SUPPLY POWER TO AND MAKE CONNECTION TO MOTORS AND EQUIPMENT REQUIRING ELECTRICAL, INCLUDING FRACTIONAL HORSEPOWER MOTORS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE MECHANICAL AND PLUMBING DRAWINGS FOR DUCTS, LINES AND EQUIPMENT.
- EXACT METHOD AND LOCATION OF CONDUIT PENETRATIONS AND/OR OPENINGS IN CONCRETE WALLS OR FLOORS SHALL BE AS DIRECTED BY A STRUCTURAL ENGINEER.
- COMPLY WITH NFPA 70E.
- INTERRUPTION OF EXISTING ELECTRIC SERVICE: DO NOT INTERRUPT ELECTRIC SERVICE TO FACILITIES OCCUPIED BY OWNER OR OTHER UNLESS PERMITTED UNDER TO FOLLOWING CONDITIONS AND THEN ONLY AFTER ARRANGING TO PROVIDE TEMPORARY ELECTRIC SERVICE ACCORDING TO REQUIREMENTS INDICATED:
  - NOTIFY OWNER NO FEWER THAN THIRTY DAYS IN ADVANCE OF PROPOSED INTERRUPTION OF ELECTRIC SERVICE.
  - NOTIFY OWNER, IN WRITING, FOURTEEN DAYS IN ADVANCE OF THE REQUIRED OUTAGE IF THE SCHEDULE FOR PERFORMING WORK HAS CHANGED OR IF REVISIONS TO THE OUTAGE PLAN ARE REQUIRED.
  - SHUTDOWNS ARE TO OCCUR ON NON-SCHOOL HOURS OR NON-SCHOOL DAYS ONLY
  - INDICATE METHOD OF PROVIDING TEMPORARY ELECTRIC SERVICE IF SERVICE CAN NOT BE RESTORED WITHIN DESIRED TIME.
- THE CONTRACTOR SHALL PROVIDE AND KEEP UP-TO-DATE A COMPLETE RECORD SET OF DRAWINGS. THESE PRINTS SHALL BE CORRECTED DAILY AND SHOW EVERY CHANGE FROM THE ORIGINAL DRAWINGS. THIS SET OF DRAWINGS SHALL BE KEPT ON THE JOB SITE AND SHALL BE USED ONLY AS A RECORD SET. THIS SHALL NOT BE CONSTRUED AS AUTHORIZATION FOR THE CONTRACTOR TO MAKE CHANGES IN THE LAYOUT WITHOUT DEFINITE INSTRUCTIONS IN EACH CASE. UPON COMPLETION OF THE WORK, A SET OF REPRODUCIBLE CONTRACT DRAWINGS SHALL BE OBTAINED FROM THE OWNER, AND CHANGES AS NOTED ON THE RECORD SET OF DRAWINGS SHALL BE INCORPORATED THEREON WITH BLACK INK IN A NEAT, LEGIBLE, UNDERSTANDABLE AND PROFESSIONAL MANNER.
- ENSURE ADA DOOR OPENERS ARE PROVIDED WITH INTEGRAL DISCONNECT SWITCH COMPLIANT WITH NEC 422.34.

**SYMBOLS**

**GENERAL SYMBOLS:**

- DASHED SYMBOL INDICATES EXISTING FIXTURE, DEVICE, OUTLET OR EQUIPMENT TO REMAIN.
- SOLID SYMBOL INDICATES NEW FIXTURE, DEVICE, OUTLET.
- DASHED SYMBOL WITH HATCH INDICATES FIXTURE, DEVICE, OUTLET OR EQUIPMENT TO BE DEMOLISHED.
- KEY NOTE REFERENCE
- DETAIL NUMBER DESIGNATION.
- SHEET DETAIL REFERENCED ON.
- DETAIL OR SECTION REFERENCES IN NOTES.
- INDICATES MOUNTING HEIGHT ABOVE FINISHED FLOOR.

**RACEWAY SYSTEMS**

HOMERUN TO PANELBOARD "A" - CIRCUITS 1. FEEDER OR CIRCUIT NUMBERS AS NOTED. UNLESS OTHERWISE INDICATED, 2#12 AWG (CU) & #12G. LARGE LINE THROUGH ARROW REPRESENTS GROUNDED CONDUCTOR (NEUTRAL), SMALL LINE THROUGH ARROW REPRESENTS PHASE CONDUCTOR, DOT REPRESENTS EQUIPMENT GROUNDING CONDUCTOR. IF TWO LARGE LINES ARE SHOWN, THERE ARE TWO (2) PHASE CONDUCTORS AND TWO NUMBERS WILL BE GIVEN (A-1,3).

HOMERUN TO PANELBOARD "A" - CIRCUITS 1 & 3 & 5. FEEDER OR CIRCUIT NUMBERS AS NOTED. CONDUIT AND CONDUCTORS PROVIDED AS INDICATED (1/2" CONDUIT, 3 - #8AWG CURRENT CARRYING CONDUCTORS #10AWG EQUIPMENT GROUNDING CONDUCTOR)

**OUTLETS AND RECEPTACLES**

SUBSCRIPT ADJACENT TO OUTLET INDICATES:  
 "GFCI" = GROUND FAULT CIRCUIT INTERRUPTER, PERSONAL PROTECTION.  
 "+XX" = DIMENSIONED HEIGHT.

- DUPLEX CONVENIENCE RECEPTACLE 20A, 125V. WALL MOUNTED DEVICE AT 18" AFF UON.
- QUAD CONVENIENCE RECEPTACLE 20A, 125V. WALL MOUNTED DEVICE AT 18" AFF UON.
- SPECIAL RECEPTACLE OUTLET WITH NEMA CONFIGURATION NUMBER AS NOTED, AT +16" AFF UON.

**LIGHTING**

- MANUAL ON BUTTON AND/OR DIMMER MOUNTED AT +48"UON. LOWERCASE LETTER INDICATES ZONE WHEN APPLIED. UPPER CASE "D" REPRESENTS DIMMER. WHEN MULTIPLE LETTERS SHOWN, LIGHT CONTAINS A DIMMER AND/OR MANUAL ON BUTTON FOR EACH ZONE INDICATED.
- WALL MOUNTED VACANCY SENSOR WITH MANUAL ON BUTTON. MOUNTED AT 48" UON. OS INDICATES OCCUPANCY SENSOR.
- LIGHT FIXTURE. UPPER CASE LETTER INDICATES FIXTURE TYPE, LOWER CASE LETTER INDICATES LIGHTING ZONE (WHEN APPLIED), PANEL # INDICATES SOURCE
- CEILING MOUNTED LED EXIT SIGN WITH GREEN LETTERING AND NICKEL CADMIUM BATTERY BACK UP, SHADED SIDE INDICATE LIT SIDE, ARROW INDICATES DIRECTION WHEN PRESENT
- WALL MOUNTED LED EXIT SIGN, SAME ATTRIBUTES AS ABOVE CEILING MOUNTED EXIT SIGN.
- DUAL TECHNOLOGY (INFRARED AND ULTRASONIC) VACANCY/OCCUPANCY SENSOR CEILING MOUNTED
- PHOTOCELL

**ADA CONTROLS**

- ADA DOOR PUSHBUTTON

DISCONNECT AND OVERCURRENT DEVICES			
CIRCUIT BREAKER		SAFETY SWITCHES	
NUMBERS OF POLES	3	NUMBERS OF POLES	3
TRIP (AMPERES)	*	FUSE SIZE (AMPS)	*
FRAME (AMPERES)	100	RATING (AMPERES)	100
I.C. (1000 AMPS)	10	FUSE CLASS (UL)	RK5

- \* "NA" INDICATES NON-AUTOMATIC C/B
- \* "NF" INDICATES NON-FUSED SWITCH
- \* "50" INDICATES TRIP OR FUSE SIZE
- \* "\*\*" INDICATES FUSE SIZE PER MANUFACTURER'S RECOMMENDATION

**SYMBOLS**

**MISCELLANEOUS**

- DISCONNECT SWITCH WHEN ON POWER PLANS, MOUNTED AT +48"UON.
- JUNCTION OR OUTLET BOX. CEILING OR WALL MOUNTED AS INDICATED. LOCATE ABOVE ACCESSIBLE CEILINGS UON.
- PANELBOARD.
- FUSED SAFETY DISCONNECT SWITCH
- NON-FUSED SAFETY DISCONNECT SWITCH
- MOTOR STARTER SWITCH.
- TRANSFORMER
- EQUIPMENT, TYPICALLY EQUIPMENT WITH A MOTOR.

**SINGLE LINE DIAGRAM:**

- SPLICE/TERMINAL
- GROUNDING ELECTRODE
- GROUND BUS OR TERMINALS
- SHORT CIRCUIT CURRENT, AMPS
- COLD WATER PIPE
- GROUND ROD

**ABBREVIATIONS:**

A OR AMP	-	AMPERE
ACT	-	ABOVE COUNTER TOP
AF	-	AMP FUSE (FOR FUSED SWITCHES)
AF	-	AMP FRAME (FOR CIRCUIT BREAKERS)
AFCI	-	ARC-FLASH CIRCUIT INTERRUPTER
AIC	-	AMPS INTERRUPTING CAPACITY
AS	-	AMP SWITCH
AT	-	AMP TRIP
BCG	-	BARE COPPER GROUND
C	-	CONDUIT
CB, C/B	-	CIRCUIT BREAKER
CEC	-	CALIFORNIA ELECTRIC CODE
CT	-	CIRCUIT
CONT	-	CONTINUED
CWP	-	COLD WATER PIPE
DIA	-	DIAMETER
DISC	-	POWER DISCONNECT
DIST	-	DISTRIBUTION
EQUIP	-	EQUIPMENT
FF	-	FINISHED FLOOR
FT	-	FOOT, FEET
G, GND	-	GROUND
GFI, GFCI	-	GROUND FAULT CIRCUIT INTERRUPTER
HP	-	HORSE POWER
KAIC	-	THOUSAND AMPERE INTERRUPT CURRENT
KCMIL	-	THOUSAND CIRCULAR MILS
KVA	-	KILO-VOLT-AMP (POWER)
KW	-	KILOWATT(S)
MFGR	-	MANUFACTURER
NEC	-	NATIONAL ELECTRICAL CODE
NTS	-	NOT TO SCALE
PH, Ø	-	PHASE
PVC	-	POLYVINYL CHLORIDE
RMC	-	RIGID METAL CONDUIT
REF	-	REFERENCE
REQD	-	REQUIRED
TVSS	-	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TYP	-	TYPICAL
UON	-	UNLESS OTHERWISE NOTED
3W	-	THREE WIRE
V	-	VOLT
WH	-	WATER HEATER
WP	-	WEATHERPROOF

**LUMINAIRE SCHEDULE**

CALLOUT	SYMBOL	DESCRIPTION	MODEL	INPUT WATTS	QUANTITY
R4		LED 1x4 RECESSED FIXTURE, 1500 Nominal Lumens, 80CRI, 3500K CCT	Lithonia Lighting, EPANL 1x4 1500LM 80CRI 35K	13.96	4
R4E		LED 1x4 RECESSED FIXTURE, 1500 Nominal Lumens, 80CRI, 3500K CCT WITH EMERGENCY BATTERY	Lithonia Lighting, EPANL 1x4 1500LM 80CRI 35K E10WCP	13.96	6
RD		4" Ultra-Thin LED Wafer Downlight, 3500K CCT, 120V	Lithonia Lighting, WF4 LED 35K	10.1	6
W2		LINEAR LED WALL SCONCE SYMMETRIC 24"	VISA LIGHTING, CV1800	6.4	1
W5		LINEAR LED WALL SCONCE SYMMETRIC 60"	VISA LIGHTING, CV1806	22.8	2



**CONSULTANTS**

<b>MEP ENGINEER:</b> Andre Gill Engineering, LLC 40 Overlea Road North Smithfield, RI 02896 T: 401.441.3414 W: www.andregillengineering.com E: andregill@andregillengineering.com	<b>FIRE PROTECTION:</b> Engineering Planning & Management, INC 959 Concord St, Framingham, MA 01701 T: 508.875.2121 W: www.epm-inc.com	<b>ARCHITECT:</b> Northeast Collaborative Architects 650 Ten Rod Rd, Unit 4 North Kingstown, RI 02852 T: 401.846.9583 W: www.ncarchitects.com
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<b>Project Title:</b> ADA BATHROOM UPGRADES		<b>Project Number:</b> 2355
<b>Location:</b> 662 HARTFORD AVE PROVIDENCE, RI 02909		<b>Drawing Scale:</b> As Indicated
<b>Drawing Title:</b> ELECTRICAL GENERAL NOTES, SYMBOLS, ABBREVIATIONS		<b>Drawing Number:</b> E0.01
<b>Issue Date:</b> 12/02/23	<b>Approved By:</b> AGE	<b>Drawn By:</b> MO
		<b>Checked By:</b> MO

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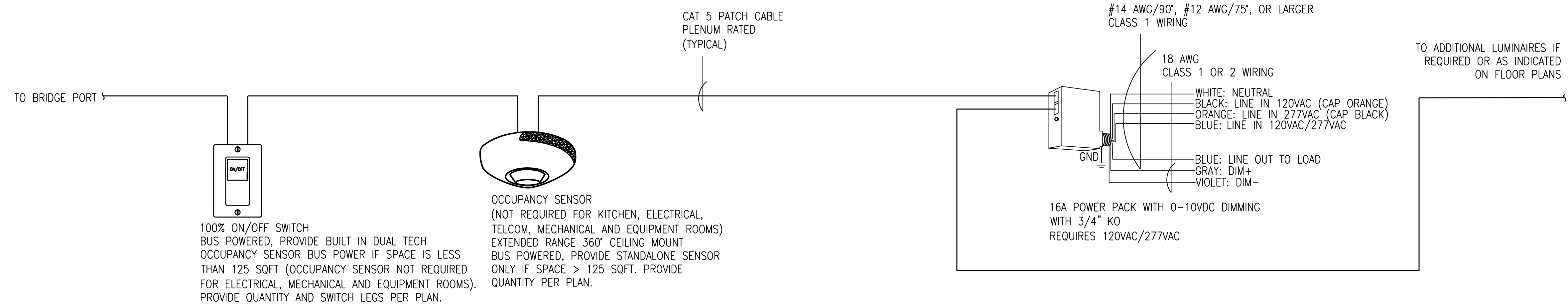


COMPLIANT SEQUENCE OF OPERATION:

1. OCCUPANCY SENSOR PROVIDES PARTIAL 100% FULL BRIGHTNESS AND AUTOMATIC OFF OF LUMINAIRES BASED ON ROOM OCCUPANCY. (USE DEFAULT TIME DELAY FOR OCCUPANCY SENSOR)
2. SWITCH PROVIDES MANUAL OVERRIDE FOR LUMINAIRES - FULL ON/OFF

GENERAL NOTES

1. PROVIDE UL 924 EMERGENCY OPERATION POWERPACK FOR EMERGENCY LUMINAIRES. NOT SHOWN FOR CLARITY.
2. PROVIDE QUANTITY OF DEVICES PER PLAN.



TYPE I: TYPICAL NON-DAYLIT RESTROOM

SCALE	1
NONE	

8/29/2023 7:56:45 AM

Revision:	Date:

CONSULTANTS		
<b>MEP ENGINEER:</b> Andre Gill Engineering, LLC 40 Overlea Road North Smithfield, RI 02896 T: 401.441.3414 W: www.andregillengineering.com E: andregill@andregillengineering.com	<b>FIRE PROTECTION:</b> Engineering Planning & Management, INC 959 Concord St, Framingham, MA 01701 T: 508.875.2121 W: www.epm-inc.com	<b>ARCHITECT:</b> Northeast Collaborative Architects 650 Ten Rod Rd, Unit 4 North Kingstown, RI 02852 T: 401.846.9583 W: www.ncarchitects.com

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*Michael Terence O'Brien*

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Project Title: ADA BATHROOM UPGRADES		Project Number 2355
Location: 662 HARTFORD AVE PROVIDENCE, RI 02909		Drawing Scale As Indicated
Drawing Title: DETAILS		Drawing Number E5.00
Issue Date: 12/02/23	Approved By: <b>AGE</b>	Drawn By: <b>MO</b>
Checked By: <b>MO</b>		

## MECHANICAL SCOPE OF WORK

- A. AREA OF WORK TO INCLUDE MECHANICAL CONTRACTOR:
- MEASURE, RECORD AND REPORT ALL SUPPLY, AND EXHAUST AIR FLOWS IN EACH BATHROOM.
  - PROVIDE REDLINE DRAWINGS TO ENGINEER OF RECORD
  - CLEAN DUCTWORK WITH-IN BATHROOMS WITH-IN THE SCOPE OF THE PROJECT.
  - PROVIDE MARK-UP OF SCOPE OF DUCTWORK BEING INCLUDED FOR CLEANING.
- B. ALL CONTRACTORS SHALL FOLLOW THE CURRENT ENFORCED **RHODE ISLAND STATE BUILDING CODES** AS A MINIMUM, HOWEVER SECTIONS OF THESE DOCUMENTS REFLECT CURRENT VERSION OF IFC INTERNATIONAL CODES WHERE THEY SUPERSEDE RISBC. ALL CONTRACTORS SHALL FOLLOW ALL LOCAL REQUIREMENTS BY AUTHORITIES HAVING JURISDICTION.
- C. CONTRACTOR SHALL OBTAIN AND PAY FOR PERMITS, INSPECTIONS AND TESTS REQUIRED BY GOVERNING AUTHORITIES HAVING JURISDICTION
- D. MAINTAIN COMPLIANCE WITH OSHA THROUGHOUT THE CONSTRUCTION PHASE AND WITH COMPLETED WORK.
- E. THE FOLLOWING ARE THE GENERAL CLASSIFICATIONS OF WORK INCLUDED IN, BUT NOT LIMITED TO THIS SECTION.
- F. DEMOLITION AND MAKE SAFE EXISTING PIPING, DUCTWORK AND ASSOCIATED HANGERS AS INDICATED ON DRAWINGS.
- G. DEMOLITION AND MAKE SAFE EXISTING ELECTRICAL AND CONDUIT AS REQUIRED.
- H. CUTTING AND PATCHING FOR ALL MECHANICAL WORK.
- I. COORDINATION AND COOPERATION WITH CONTRACTORS AND SUPPLIERS FOR OTHER SECTIONS AND WITH THE OWNER.
- J. AS-BUILT DRAWINGS.

## GENERAL NOTES

- A. THERE SHALL BE NO SERVICE INTERRUPTION
- B. PRIOR TO COMMENCING WORK CONTRACTOR SHALL VERIFY EXACT LOCATION OF DOMESTIC WATER, VENT AND DEPTH OF EXISTING SEWER LINES IN THE FIELD.
- ALL PIPING SHALL BE IDENTIFIED ON REDLINE DRAWINGS TO BE PROVIDED BY CONTRACTOR TO ENGINEER, OWNER AND ARCHITECT, INCLUDING SIZE, INVERT ELEVATIONS, DIRECTION OF FLOW
- C. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL, COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
- D. CONTRACT DOCUMENT DRAWINGS FOR MECHANICAL WORK (HVAC, PLUMBING, AND FIRE PROTECTION) ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY.
- E. INSTALL ALL MECHANICAL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.
- F. ALL PIPING ON THIS PLAN SHALL BE CONCEALED UNLESS OTHERWISE NOTED.
- G. REPAIR PAVING/FLOOR AFTER INSTALLATION AND INSPECTION OF UTILITIES INSTALLED. PAINT FLOOR TO MATCH PREVIOUS OR MATCH AND COMPLY WITH ARCHITECTURAL DRAWINGS.
- H. CONTRACTOR TO RECONNECT EXISTING ELECTRICAL GROUNDING/BONDING TO COLD WATER PIPING SYSTEM.
- I. PROVIDE VIBRATION ISOLATION FOR ALL MECHANICAL EQUIPMENT TO PREVENT TRANSMISSION OF VIBRATION TO BUILDING STRUCTURE.
- J. PROVIDE VIBRATION ISOLATORS FOR ALL PIPING SUPPORTS CONNECTED TO AND WITHIN 50 FEET OF ISOLATED EQUIPMENT (EXCEPT AT BASE ELBOW SUPPORTS AND ANCHOR POINTS) THROUGHOUT MECHANICAL EQUIPMENT ROOMS. DO THE SAME FOR SUPPORTS OF STEAM MAINS WITHIN 50 FEET OF BOILER OR PRESSURE REDUCING VALVES.
- K. PROVIDE VIBRATION ISOLATORS FOR ALL PIPING SUPPORTS OF STEAM MAINS WITHIN 50 FEET OF BOILERS AND PRESSURE REDUCING VALVES.
- L. THE LOCATION OF EXISTING UNDERGROUND/UNDERSLAB UTILITIES IS SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PAY FOR AND REPAIR ALL DAMAGES CAUSED BY FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES UNLESS OTHERWISE INDICATED.
- M. COORDINATE CONSTRUCTION OF ALL MECHANICAL WORK WITH ARCHITECTURAL, STRUCTURAL, CIVIL, ELECTRICAL WORK, ETC., SHOWN ON OTHER CONTRACT DOCUMENT DRAWINGS.
- N. MAINTAIN A MINIMUM OF 6'-8" CLEARANCE TO UNDERSIDE OF PIPES, DUCTS, CONDUITS, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS.
- O. ALL TESTS SHALL BE COMPLETED BEFORE ANY MECHANICAL EQUIPMENT OR PIPING INSULATION IS APPLIED.
- P. LOCATE ALL TEMPERATURE, PRESSURE, AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH STRAIGHT SECTION OF PIPE OR DUCT UP- AND DOWNSTREAM AS RECOMMENDED BY THE MANUFACTURER FOR GOOD ACCURACY. PROVIDE ACCESS PANELS WHERE REQUIRED.
- Q. TESTING, ADJUSTING, AND BALANCING AGENCY SHALL BE A MEMBER OF THE ASSOCIATED AIR BALANCE COUNCIL (AABC) OR THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB). TESTING, ADJUSTING, AND BALANCING SHALL BE PERFORMED IN ACCORDANCE WITH THE AABC STANDARDS.
- R. WHERE TWO OR MORE ITEMS OF THE SAME TYPE OF EQUIPMENT ARE REQUIRED, THE PRODUCT OF ONE MANUFACTURER SHALL BE USED.
- S. REINFORCEMENT, DETAILING, AND PLACEMENT OF CONCRETE SHALL CONFORM TO ASTM 315 AND ACI 318. CONCRETE SHALL CONFORM TO ASTM C94. CONCRETE WORK SHALL CONFORM TO ACI 318, PART ENTITLED "CONSTRUCTION REQUIREMENTS." COMPRESSIVE STRENGTH IN 28 DAYS SHALL BE 3,000 PSI. TOTAL AIR CONTENT OF EXTERIOR CONCRETE SHALL BE BETWEEN 5 AND 7 PERCENT BY VOLUME. SLUMP SHALL BE BETWEEN 3 AND 4 INCHES. CONCRETE SHALL BE CURED FOR 7 DAYS AFTER PLACEMENT.
- T. COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURERS' CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL DUCT AND PIPING TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL DUCT AND PIPING DIMENSIONS BEFORE FABRICATION.
- U. ALL CONTROL WIRE AND CONDUIT SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE AND DIVISION 16 OF THE SPECIFICATION.
- V. Q. CONCRETE HOUSEKEEPING PADS TO SUIT MECHANICAL EQUIPMENT SHALL BE SIZED AND LOCATED BY THE MECHANICAL CONTRACTOR. MINIMUM CONCRETE PAD THICKNESS SHALL BE 6 INCHES. PAD SHALL EXTEND BEYOND THE EQUIPMENT A MINIMUM OF 6 INCHES ON EACH SIDE. CONCRETE HOUSEKEEPING PADS SHALL BE PROVIDED BY THE GENERAL CONTRACTOR. IT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO COORDINATE SIZE AND LOCATION OF CONCRETE HOUSEKEEPING PADS WITH GENERAL CONTRACTOR.
- W. ALL MECHANICAL ROOM DOORS SHALL BE A MINIMUM OF 4'-0" WIDE.
- X. WHERE BEAMS ARE INDICATED TO BE PENETRATED WITH DUCTWORK OR PIPING, COORDINATE DUCTWORK AND PIPING LAYOUT WITH BEAM OPENING SIZE AND OPENING LOCATIONS. COORDINATION SHALL BE DONE PRIOR TO FABRICATION OF DUCTWORK, CUTTING OF PIPING, OR FABRICATION OF BEAMS.
- Y. WHEN MECHANICAL WORK (HVAC, PLUMBING, SHEET METAL, FIRE PROTECTION, ETC.) IS SUBCONTRACTED, IT SHALL BE THE MECHANICAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE SUBCONTRACTORS AND THE ASSOCIATED CONTRACTS. WHEN DISCREPANCIES ARISE PERTAINING TO WHICH CONTRACTOR PROVIDES A PARTICULAR ITEM OF THE MECHANICAL CONTRACT OR WHICH CONTRACTOR PROVIDES FINAL CONNECTIONS FOR A PARTICULAR ITEM OF THE MECHANICAL CONTRACT, IT SHALL BE BROUGHT TO THE ATTENTION OF THE MECHANICAL CONTRACTOR, WHOSE DECISION SHALL BE FINAL.
- Z. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE PROJECT SITE CONDITIONS AND SHALL HAVE THE APPROVAL OF THE ENGINEER BEFORE BEING INSTALLED. DO NOT SCALE DRAWINGS.
- AA. ALL MISCELLANEOUS STEEL REQUIRED TO ENSURE PROPER INSTALLATION AND AS SHOWN IN DETAILS FOR PIPING, DUCTWORK, AND EQUIPMENT (UNLESS OTHERWISE NOTED) SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.
- AB. PROVIDE ACCESS PANELS FOR INSTALLATION IN WALLS AND CEILINGS, WHERE REQUIRED, TO SERVICE DAMPERS, VALVES, SMOKE DETECTORS, AND OTHER CONCEALED MECHANICAL EQUIPMENT. ACCESS PANELS SHALL BE TURNED OVER TO GENERAL CONTRACTOR FOR INSTALLATION.
- AC. ALL EQUIPMENT, PIPING, DUCTWORK, ETC., SHALL BE SUPPORTED AS DETAILED, SPECIFIED, AND REQUIRED TO PROVIDE A VIBRATION FREE INSTALLATION.
- AD. ALL DUCTWORK, PIPING AND EQUIPMENT SUPPORTED FROM STRUCTURAL STEEL SHALL BE COORDINATED WITH GENERAL CONTRACTOR. ALL ATTACHMENTS TO STEEL BAR JOISTS, TRUSSES, OR JOIST GIRDERS SHALL BE AT PANEL POINTS. PROVIDE BEAM CLAMPS MEETING MSS STANDARDS.
- AE. WELDING TO STRUCTURAL MEMBERS SHALL NOT BE PERMITTED. THE USE OF C-CLAMPS SHALL NOT BE PERMITTED.
- AF. MECHANICAL EQUIPMENT, DUCTWORK, AND PIPING SHALL NOT BE SUPPORTED FROM METAL DECK.
- AG. ALL ROOF MOUNTED EQUIPMENT CURBS FOR EQUIPMENT PROVIDED BY THE MECHANICAL CONTRACTOR SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR.
- AH. LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF OPENINGS SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED.
- AI. ALL OPENINGS IN FIRE WALLS DUE TO DUCTWORK, PIPING, CONDUIT, ETC., SHALL BE FIRE STOPPED WITH A PRODUCT SIMILAR TO 3M OR APPROVED EQUAL.
- AJ. ALL AIR CONDITIONING CONDENSATE DRAIN LINES FROM EACH AIR HANDLING UNIT AND ROOFTOP UNIT SHALL BE PIPED FULL SIZE OF THE UNIT DRAIN OUTLET, WITH "P" TRAP, AND PIPED TO NEAREST DRAIN. SEE DETAILS SHOWN ON THE DRAWINGS OR THE CONTRACT SPECIFICATIONS FOR DEPTH OF AIR CONDITIONING CONDENSATE TRAP.
- AK. REFER TO TYPICAL DETAILS FOR DUCTWORK, PIPING, AND EQUIPMENT INSTALLATION.

## HVAC/ SHEETMETAL NOTES

- A. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE HVAC SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
- B. CERTAIN ITEMS SUCH AS RISES AND DROPS IN DUCTWORK, ACCESS DOORS, VOLUME DAMPERS, ETC., ARE INDICATED ON THE CONTRACT DOCUMENT DRAWINGS FOR CLARITY FOR A SPECIFIC LOCATION REQUIREMENT AND SHALL NOT BE INTERPRETED AS THE EXTENT OF THE REQUIREMENTS FOR THESE ITEMS. CONTRACTOR IS REQUIRED TO INSTALL ACCESSORIES INCLUDED BUT NOT LIMITED TO ACCESS PANELS, DAMPERS (INCLUDING FIRE, SMOKE AND COMBO), TEST PORTS AS REQUIRED BY CODE. FIRE AND SMOKE DAMPERS SHALL BE INSTALLED AT A MINIMUM OF ALL FIRE WALL PENETRATIONS UNLESS EXEMPT BY CODE. FIRE AIR DUCT SMOKES SHALL BE INSTALLED WITH IN 5' OF THE DAMPER WHEN REQUIRED, UNLESS OTHERWISE REQUIRED.
- C. INSULATE THE FOLLOWING:
- ALL SUPPLY AIR, OUTDOOR AIR.
  - EXHAUST AND RELIEF AIR BETWEEN THE MOTOR-OPERATED DAMPER AND PENETRATION OF THE BUILDING EXTERIOR.
  - ALL DUCTWORK LOCATED IN UNCONDITIONED SPACES OR OUTSIDE BUILDING ENVELOPE.
  - ALL DUCTWORK LOCATED IN ATTICS, WHETHER VENTILATED OR UNVENTILATED.
  - ALL DUCTWORK BURIED EITHER OUTSIDE THE BUILDING OR BELOW FLOORS.
  - ALL SURFACES SHOULD BE RESISTANT TO MOISTURE AND RESIST EROSION, ACCORDING TO THE REQUIREMENTS OF ASHRAE STANDARD 62.1.
- D. IN CORRIDORS WHERE CEILING SPEAKERS AND AIR DIFFUSERS ARE INDICATED BETWEEN THE SAME LIGHT FIXTURES, INSTALL BOTH DEVICES AT THE QUARTER POINTS BETWEEN THE SAME FIXTURE.
- E. UNLESS OTHERWISE SHOWN, LOCATE ALL ROOM THERMOSTATS AND HUMIDISTATS 4'-0" (CENTERLINE) ABOVE FINISHED FLOOR. NOTIFY THE ENGINEER OF ANY ROOMS WHERE THE ABOVE LOCATION CANNOT BE MAINTAINED OR WHERE THERE IS A QUESTION ON LOCATION.
- F. ALL DUCTWORK SHALL CLEAR DOORS AND WINDOWS.
- G. ALL DUCTWORK DIMENSIONS, AS SHOWN ON THE DRAWINGS, ARE INTERNAL CLEAR DIMENSIONS AND DUCT SIZE SHALL BE INCREASED TO COMPENSATE FOR DUCT LINING THICKNESS.
- H. PROVIDE ALL 90 DEGREE SQUARE ELBOWS WITH DOUBLE RADIUS TURNING VANES UNLESS OTHERWISE INDICATED. ELBOWS IN DISHWASHER, KITCHEN, AND LAUNDRY EXHAUST SHALL BE UNWAVED SMOOTH RADIUS CONSTRUCTION WITH A RADIUS EQUAL TO 1/2 TIMES THE WIDTH OF THE DUCT. PROVIDE ACCESS DOORS UPSTREAM OF ALL ELBOWS WITH TURNING VANES.
- I. COORDINATE DIFFUSER, REGISTER, AND GRILLE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS, LIGHTING, AND OTHER CEILING ITEMS AND MAKE MINOR DUCT MODIFICATIONS TO SUIT.
- J. FIELD ERRECTED AND FACTORY ASSEMBLED AIR HANDLING UNIT COILS SHALL BE ARRANGED FOR REMOVAL FROM THE UPSTREAM SIDE WITHOUT DISMANTLING SUPPORTS. PROVIDE GALVANIZED STRUCTURAL STEEL SUPPORTS FOR ALL COILS (EXCEPT LOWEST COIL) IN BANKS OVER TWO COILS HIGH TO PERMIT INDEPENDENT REMOVAL OF ANY COIL.
- K. ALL AIR HANDLING UNITS SHALL OPERATE WITHOUT MOISTURE CARRYOVER.
- L. LOCATE ALL MECHANICAL EQUIPMENT (SINGLE DUCT, DUAL DUCT, VARIABLE VOLUME, CONSTANT VOLUME AND FAN POWERED, FAN COIL UNITS, CABINET HEATERS, UNIT HEATERS, UNIT VENTILATORS, COILS, STEAM HUMIDIFIERS, ETC.) FOR UNOBSTRUCTED ACCESS TO UNIT ACCESS PANELS, CONTROLS AND VALVING. FINNED TUBE RADIATION ENCLOSURES SHALL BE WALL TO WALL UNLESS OTHERWISE INDICATED.
- M. PROVIDE FLEXIBLE CONNECTIONS IN ALL DUCTWORK SYSTEMS (SUPPLY, RETURN, AND EXHAUST) CONNECTED TO AIR HANDLING UNITS, FANS, AND OTHER EQUIPMENT WHICH REQUIRE VIBRATION ISOLATION. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AT THE POINT OF CONNECTION TO THE EQUIPMENT UNLESS OTHERWISE INDICATED.
- O. UNLESS OTHERWISE NOTED, ALL DUCTWORK IS OVERHEAD, TIGHT TO THE UNDERSIDE OF THE STRUCTURE, WITH SPACE FOR INSULATION IF REQUIRED.
- P. RUNS OF FLEXIBLE DUCT SHALL NOT EXCEED 5 FEET (EDIT MAXIMUM LENGTH OF FLEXIBLE DUCT TO SUIT PROJECT; 5 FEET MAXIMUM RECOMMENDED LENGTH, 8 FEET MAXIMUM LENGTH).
- Q. ALL DUCTWORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN DUCTS, INCLUDING DIVIDED DUCTS AND TRANSITIONS AROUND OBSTRUCTIONS, SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- R. PROVIDE ACCESS DOORS IN DUCTWORK TO PROVIDE ACCESS FOR ALL SMOKE DETECTORS, FIRE DAMPERS, SMOKE DAMPERS, VOLUME DAMPERS, HUMIDIFIERS, COILS, AND OTHER ITEMS LOCATED IN THE DUCTWORK WHICH REQUIRE SERVICE AND/OR INSPECTION.
- S. PROVIDE ACCESS DOORS IN DUCTWORK FOR OPERATION, ADJUSTMENT, AND MAINTENANCE OF ALL FANS, VALVES, AND MECHANICAL EQUIPMENTS. ALL DUCTS SHALL BE GROUNDED ACROSS FLEXIBLE CONNECTIONS WITH FLEXIBLE COPPER GROUNDING STRAPS. GROUNDING STRAPS SHALL BE BOLTED OR SOLDERED TO BOTH THE EQUIPMENT AND THE DUCT.
- T. SMOKE DETECTORS SHALL BE FURNISHED AND WIRED BY THE ELECTRICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR MOUNTING THE SMOKE DETECTOR IN DUCTWORK AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS.
- U. TERMINATE GAS VENTS FOR UNIT HEATERS, WATER HEATERS, HIGH PRESSURE PARTS WASHER, HIGH PRESSURE CLEANER, AND OTHER GAS APPLIANCES A MINIMUM OF 3'-0" ABOVE ROOF WITH RAIN CAP (EDIT APPLIANCES AND HEIGHT ABOVE ROOF TO MEET CODE AND TO SUIT PROJECT REQUIREMENTS).
- V. SEE SPECIFICATIONS FOR DUCTWORK GAUGES, BRACING, HANGERS, AND OTHER REQUIREMENTS.
- W. EXTERIOR LOUVERS ARE INDICATED FOR INFORMATION ONLY. DETAILED DESCRIPTIONS ARE PROVIDED IN THE ARCHITECTURAL SPECIFICATIONS.
- X. EXTERIOR LOUVERS ARE INDICATED FOR INFORMATION ONLY. LOUVER SIZES, LOCATIONS, AND DETAILS SHALL BE COORDINATED WITH GENERAL CONTRACTOR.
- Y. EXTERIOR LOUVERS ARE INDICATED FOR INFORMATION ONLY. LOUVER SIZES, LOCATIONS, MOUNTING, AND DETAILS SHALL BE COORDINATED WITH OTHER TRADES INVOLVED.

MECHANICAL - SHEET LIST			
DISCIPLINE	SHEET NUMBER	SHEET NAME	SHEET ISSUE DATE
MECHANICAL	M0.01	MECHANICAL GENERAL	05DEC23
MECHANICAL	M3.00	MAIN BATHROOMS	05DEC23
MECHANICAL	M3.01	STAFF BATHROOMS	05DEC23
MECHANICAL	M3.2	MECHANICAL ROOM	05DEC23
MECHANICAL	M5.00	MECHANICAL SCHEDULE	05DEC23

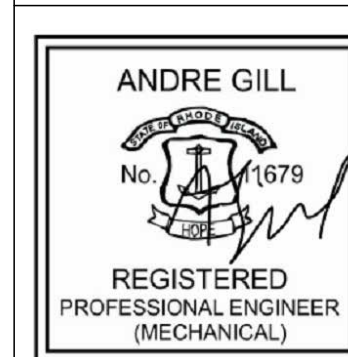
## DEMO NOTES

- A. PRIOR TO SUBMITTING BID, THE CONTRACTOR SHALL VISIT THE PROJECT SITE TO BECOME FAMILIAR WITH ALL EXISTING CONDITIONS AND TO DETERMINE THE EXTENT OF WORK TO REMOVE THE EXISTING PLUMBING SYSTEM INDICATED TO BE REMOVED. REQUEST FOR COMPENSATION FOR EXTRA WORK, WHICH WOULD HAVE BEEN EVIDENT BY COMPLIANCE WITH THE PREVIOUS STATEMENT, WILL NOT BE CONSIDERED.
- B. EXISTING CONDITIONS INFORMATION SHOWN AND/OR INDICATED ON THE DRAWINGS WERE OBTAINED FROM LIMITED EXISTING DRAWINGS PREPARED BY OTHERS; NON-DESTRUCTIVE FIELD INVESTIGATION REVIEW, FIELD MEASUREMENT; OTHER AVAILABLE DOCUMENTATION. NOT ALL EXISTING CONDITIONS &/or ACTUAL CONSTRUCTION MAY BE INDICATED AND/OR KNOWN.
- C. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, CONNECTIONS, LOCATIONS, SIZES, ETC. IN THE FIELD AND NOTIFY THE ENGINEER OF RECORD OF ANY DISCREPANCIES BEFORE STARTING DEMOLITION WORK.
- D. CONTRACTOR SHALL COORDINATE EXTENTS OF ALL DEMOLITION WORK WITH ALL NEW WORK AND NOTIFY THE ARCHITECT AND ENGINEER OF RECORD OF ANY DISCREPANCIES BEFORE STARTING DEMOLITION WORK.
- E. CONTRACTOR SHALL MAKE SAFE AND PROPERLY DE-ENERGIZE, SHUT OFF & CAP ALL UTILITIES (ELECTRICAL, GAS, WATER, SEWER, TELEPHONE, ETC.)
- F. VERIFY PIPING SERVES ONLY PLUMBING FIXTURES INDICATED FOR DEMOLITION BEFORE SHUT-DOWN FOR DISCONNECTION. IDENTIFY EXISTING PIPING WHICH SERVES FIXTURES TO REMAIN. NOTIFY ARCHITECT OF ACTIVE PIPING TO BE MAINTAINED WHEN LOCATED IN PARTITION TO BE DEMOLISHED.
- G. COORDINATE ALL SHUT-DOWNS, TIE-INS, ETC., WITH THE G.C. ELECTRICAL MAKE-SAFE OF PLUMBING EQUIPMENT REQUIRING DEMOLITION SHALL BE COMPLETED BY THE ELECTRICAL SUBCONTRACTOR.
- H. FULL EXTENT OF MEP MATERIALS ARE UNKNOWN. EXISTING BUILDING CONSTRUCTION MAY CONTAIN MATERIALS THAT REQUIRE ABATEMENT. IF POTENTIAL MATERIALS ARE DISCOVERED, CONTRACTOR SHALL NOTIFY OWNER & ARCHITECT BEFORE PROCEEDING WITH WORK.
- I. CONTRACTOR SHALL PROTECT ALL EXISTING WORK TO REMAIN DURING DEMOLITION.
- J. CONTRACTOR TO FURNISH AND INSTALL ALL SHORING AND/OR BRACING TO SUPPORT ALL EXISTING WALLS, FLOORS/ROOFS, ETC. PRIOR TO REMOVALS OF EXISTING CONSTRUCTION. DEMOLITION SUBCONTRACTOR MUST PROTECT EXISTING SLAB, WALL, FENCING AND BUILDING STRUCTURE DURING DEMOLITION PHASE. DAMAGE TO EXISTING STRUCTURE SHALL BE REPAIRED AT DEMOLITION SUBCONTRACTORS EXPENSE. ALL DEMOLITION WORK PERFORMED SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE NATIONAL, STATE, AND LOCAL CODES, LAWS AND ORDINANCES.
- K. EXISTING DEFICIENCIES NOT INDICATED ON THE DRAWINGS, BUT UNCOVERED AND/OR DISCOVERED BY CONTRACTOR'S CONSTRUCTION ACTIVITIES SHALL BE REPORTED TO THE ENGINEER OF RECORD FOR REVIEW PRIOR TO INSTALLATION OF NEW WORK. ADDITIONAL DETAILS WILL BE FURNISHED AS NECESSARY.

## CONSULTANTS

MEP ENGINEER:	FIRE PROTECTION:	ARCHITECT:
Andre Gill Engineering, LLC 40 Overlea Road North Smithfield, RI 02896 T: 401.441.3414 W: www.andregillengineering.com E: andregill@andregillengineering.com	Engineering Planning & Management, INC 959 Concord St, Frammingham, MA 01701 T: 508.875.2121 W: www.epm-inc.com	Northeast Collaborative Architects 650 Ten Rod Rd, Unit 4 North Kingstown, RI 02852 T: 401.846.9583 W: www.ncarchitects.com

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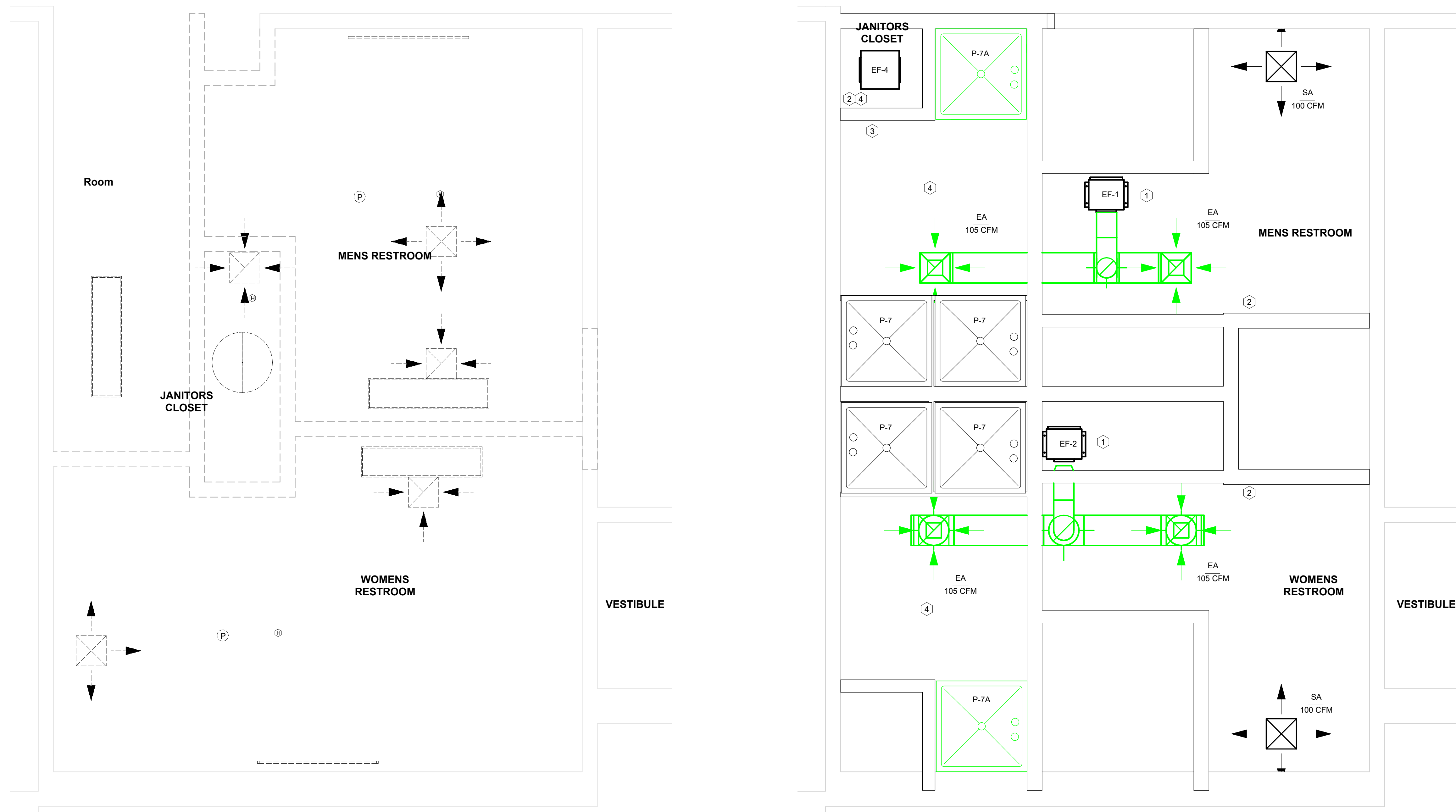


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Project Title: ADA BATHROOM UPGRADES		Project Number: 2355
Location: 662 HARTFORD AVE PROVIDENCE, RI 02909		Drawing Scale: 12" = 1'-0"
Drawing Title: MECHANICAL GENERAL		Drawing Number: M0.01
Issue Date: 05DEC23	Approved By: AG	Drawn By: AGE
		Checked By: AG

MECHANICAL CALLOUT NOTES	
#	NOTE
1	INSTALL INLINE EXHAUST FAN ABOVE CEILING. ROUTE TO EA TERMINALS AND EXHAUST DISCHARGE THROUGH ROOF.
2	INSTALL WALL MOUNTED DEHUMIDISTAT
3	INSTALL CEILING MOUNTED EF-4 AND ROUTE EXHAUST TO ROOF.
4	INSTALL DIGITAL HUMIDITY SENSOR

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### GENERAL MECHANICAL SHEET NOTES

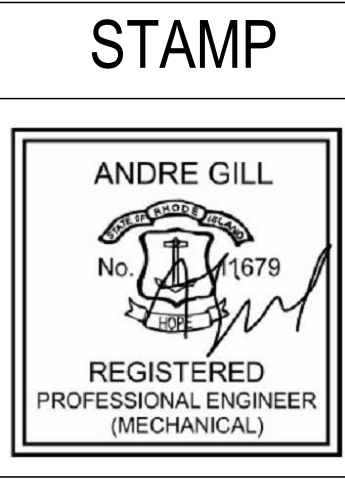
- A. REPLACE AND RELOCATE SUPPLY AIR TERMINALS.
- B. EXHAUST RATES SHALL BE FIFTY (50) CFM PER FIXTURE IN ALL RESTROOMS. A FIXTURE INCLUDES (WATER CLOSET, URINAL, SHOWER HEAD).
- C. PROVIDE REDLINE DRAWINGS TO ENGINEER OF RECORD SHOWING INFORMATION ABOVE UPON COMPLETION OF PROJECT FOR RECORD SET.
- D. CLEAN DUCTWORK WITH-IN BATHROOMS, WITH-IN THE SCOPE OF THE PROJECT.
- E. DRAWINGS ARE DIAGRAMMATIC. DETERMINE LOCATIONS OF SYSTEMS AND COMPONENTS IN FIELD. DO NOT SCALE DRAWINGS.
- F. NEITHER ACCURACY NOR COMPLETION OF UTILITY LOCATIONS SHOWN ON DRAWINGS IS GUARANTEED. DETERMINE EXACT LOCATIONS OF EXISTING UTILITIES IN FIELD, WHETHER OR NOT SHOWN ON DRAWINGS. EXERCISE CAUTION AND IDENTIFY LOCATIONS OF UNMARKED UTILITY LINES AS NECESSARY TO PERFORM WORK OF THIS SECTION.
- G. MAINTAIN COMPLIANCE WITH OSHA THROUGHOUT THE CONSTRUCTION PHASE AND WITH COMPLETED WORK.
- H. THE FOLLOWING ARE THE GENERAL CLASSIFICATIONS OF WORK INCLUDED IN, BUT NOT LIMITED TO THIS SECTION.
- I. DEMOLITION AND MAKE SAFE EXISTING PIPING, DUCTWORK AND ASSOCIATED HANGERS AS INDICATED ON DRAWINGS.
- J. DEMOLITION AND MAKE SAFE EXISTING ELECTRICAL AND CONDUIT AS REQUIRED.
- K. CUTTING AND PATCHING FOR ALL MECHANICAL WORK.
- L. PROVIDE ACCESS PANELS IN NON-ACCESSIBLE AREAS (RATED OR NON-RATED) MINIMUM 12"x12" SIZE. INSTALL LARGER ACCESS PANELS FOR LARGER EQUIPMENT AS REQUIRED BY CODE. COORDINATE WITH ARCHITECT FOR APPROVAL OF FINAL LOCATIONS PRIOR TO INSTALLATION.
- M. PROVIDE FIRESTOPPING AT PASS THROUGH PIPE PENETRATIONS THROUGH RATED WALLS.

① (D) BATHROOMS MECHANICAL  
1/2" = 1'-0"

② (N) BATHROOMS MECHANICAL  
1/2" = 1'-0"

ISSUE FOR PERMIT	10JAN24
Revision:	Date:

CONSULTANTS		
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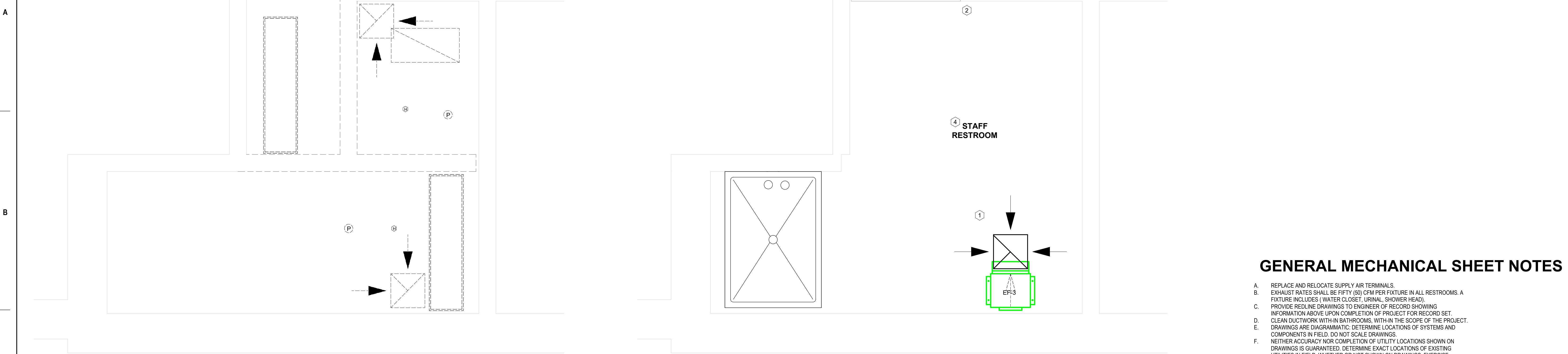
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STATE OF RHODE ISLAND  
Department of Administration

<b>Project Title:</b> ADA BATHROOM UPGRADES	<b>Project Number:</b> 2355
<b>Location:</b> 662 HARTFORD AVE PROVIDENCE, RI 02909	<b>Drawing Scale:</b> As indicated
<b>Drawing Title:</b> MAIN BATHROOMS	<b>Drawing Number:</b> M3.00
<b>Issue Date:</b> 05DEC23	<b>Approved By:</b> AG
<b>Drawn By:</b> AGE	<b>Checked By:</b> AG

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- E. DRAWINGS ARE DIAGRAMMATIC. DETERMINE LOCATIONS OF SYSTEMS AND COMPONENTS IN FIELD. DO NOT SCALE DRAWINGS.
- F. NEITHER ACCURACY NOR COMPLETION OF UTILITY LOCATIONS SHOWN ON DRAWINGS IS GUARANTEED. DETERMINE EXACT LOCATIONS OF EXISTING UTILITIES IN FIELD, WHETHER OR NOT SHOWN ON DRAWINGS. EXERCISE CAUTION AND IDENTIFY LOCATIONS OF UNMARKED UTILITY LINES AS NECESSARY TO PERFORM WORK OF THIS SECTION.
- G. MAINTAIN COMPLIANCE WITH OSHA THROUGHOUT THE CONSTRUCTION PHASE AND WITH COMPLETED WORK.
- H. THE FOLLOWING ARE THE GENERAL CLASSIFICATIONS OF WORK INCLUDED IN, BUT NOT LIMITED TO THIS SECTION.
- I. DEMOLITION AND MAKE SAFE EXISTING PIPING, DUCTWORK AND ASSOCIATED HANGERS AS INDICATED ON DRAWINGS.
- J. DEMOLITION AND MAKE SAFE EXISTING ELECTRICAL AND CONDUIT AS REQUIRED.
- K. CUTTING AND PATCHING FOR ALL MECHANICAL WORK.
- L. PROVIDE ACCESS PANELS IN NON-ACCESSIBLE AREAS (RATED OR NON-RATED) MINIMUM 12"x12" SIZE. INSTALL LARGER ACCESS PANELS FOR LARGER EQUIPMENT AS REQUIRED BY CODE. COORDINATE WITH ARCHITECT FOR APPROVAL OF FINAL LOCATIONS PRIOR TO INSTALLATION.
- M. PROVIDE FIRESTOPPING AT PASS THROUGH PIPE PENETRATIONS THROUGH RATED WALLS.

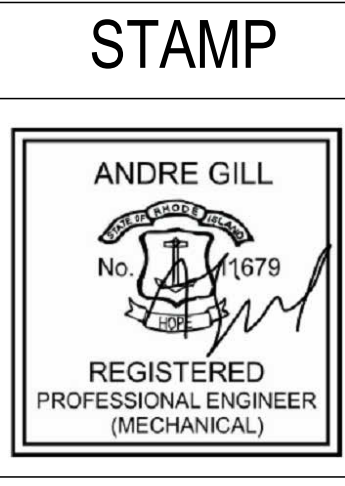
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① (D) STAFF BATHROOM MECHANICAL  
3/4" = 1'-0"

② (N) STAFF BATHROOM MECHANICAL  
3/4" = 1'-0"

ISSUE FOR PERMIT	10JAN24
Revision:	Date:

CONSULTANTS		
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<b>Project Title:</b> ADA BATHROOM UPGRADES	<b>Project Number:</b> 2355
<b>Location:</b> 662 HARTFORD AVE PROVIDENCE, RI 02909	<b>Drawing Scale:</b> As indicated
<b>Drawing Title:</b> STAFF BATHROOMS	<b>Drawing Number:</b> M3.01
<b>Issue Date:</b> 05DEC23	<b>Approved By:</b> AG
<b>Drawn By:</b> AGE	<b>Checked By:</b> AG

A

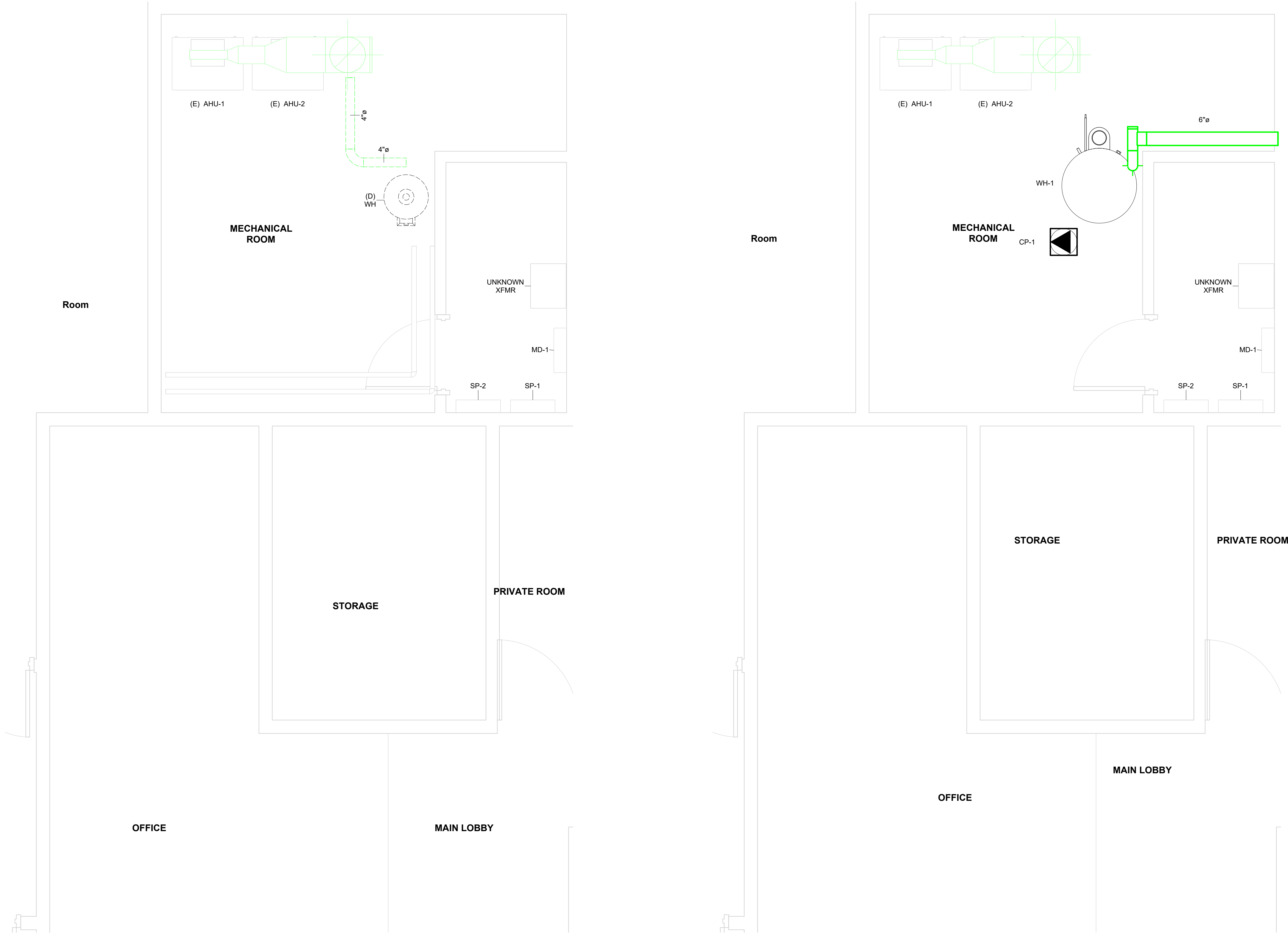
B

C

D

E

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**GENERAL MECHANICAL SHEET NOTES**

- A. REPLACE AND RELOCATE SUPPLY AIR TERMINALS.
- B. EXHAUST RATES SHALL BE FIFTY (50) CFM PER FIXTURE IN ALL RESTROOMS. A FIXTURE INCLUDES (WATER CLOSET, URINAL, SHOWER HEAD).
- C. PROVIDE REDLINE DRAWINGS TO ENGINEER OF RECORD SHOWING INFORMATION ABOVE UPON COMPLETION OF PROJECT FOR RECORD SET.
- D. CLEAN DUCTWORK WITH-IN BATHROOMS, WITH-IN THE SCOPE OF THE PROJECT.
- E. DRAWINGS ARE DIAGRAMMATIC. DETERMINE LOCATIONS OF SYSTEMS AND COMPONENTS IN FIELD. DO NOT SCALE DRAWINGS.
- F. NEITHER ACCURACY NOR COMPLETION OF UTILITY LOCATIONS SHOWN ON DRAWINGS IS GUARANTEED. DETERMINE EXACT LOCATIONS OF EXISTING UTILITIES IN FIELD, WHETHER OR NOT SHOWN ON DRAWINGS. EXERCISE CAUTION AND IDENTIFY LOCATIONS OF UNMARKED UTILITY LINES AS NECESSARY TO PERFORM WORK OF THIS SECTION.
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- K. CUTTING AND PATCHING FOR ALL MECHANICAL WORK.
- L. PROVIDE ACCESS PANELS IN NON-ACCESSIBLE AREAS (RATED OR NON-RATED) MINIMUM 12"x12" SIZE. INSTALL LARGER ACCESS PANELS FOR LARGER EQUIPMENT AS REQUIRED BY CODE. COORDINATE WITH ARCHITECT FOR APPROVAL OF FINAL LOCATIONS PRIOR TO INSTALLATION.
- M. PROVIDE FIRESTOPPING AT PASS THROUGH PIPE PENETRATIONS THROUGH RATED WALLS.

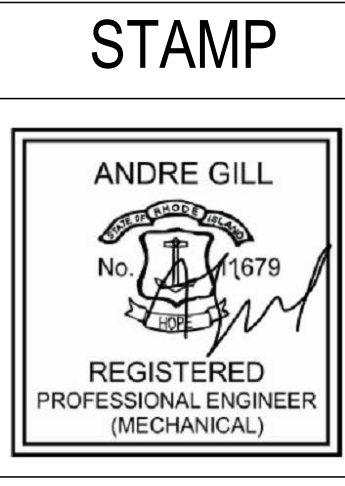
① (D) MECHANICAL ROOM (MECH)  
1/2" = 1'-0"

② (N) MECHANICAL ROOM (MECH)  
1/2" = 1'-0"



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<b>Project Title:</b> ADA BATHROOM UPGRADES	<b>Project Number:</b> 2355
<b>Location:</b> 662 HARTFORD AVE PROVIDENCE, RI 02909	<b>Drawing Scale:</b> As indicated
<b>Drawing Title:</b> MECHANICAL ROOM	<b>Drawing Number:</b> M3.2
<b>Issue Date:</b> 05DEC23	<b>Approved By:</b> AG
<b>Drawn By:</b> AGE	<b>Checked By:</b> AG

EXHAUST FAN (EF-#)												
TYPE MARK	MARK	MANUFACTURER	AGE MODEL	CFM RANGE	AGE FREQUEN CY (HZ)	AGE PHASE	AGE VOLTAGE	EXTERNAL STATIC	RPM	HP	WATTS	NOTES
	EF-1	Greenheck	CSP A390 QD	150-250	60	1	115	0.8	1,300		57.2	
	EF-2	Greenheck	CSP A390 QD	150-250	60	1	115	0.8	1,300		57.2	
	EF-3	Greenheck	CSP A390 QD	150-250	60	1	115	0.2	1,300		57.2	
	EF-4	Greenheck	SP A110 QD	98-130	60	1	115	0.15	950		18.5	

- NOTES:**
- DIGITAL HUMIDITY SENSOR PN 386429
  - VIBRATION ISOLATION KIT, HANGING FOR MODELS SP/CSP, PN VI KIT-SP/CSP
  - DEHUMIDISTAT, 120V/ 3 AMP, PN 385364



SKU  
SP-A390-QD

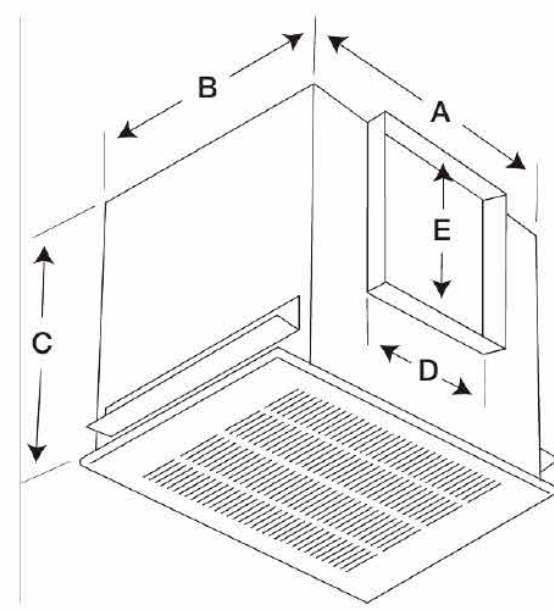
Job Name:  
Mark:  
Submitted By:  
Date: 12/04/2023

### Ceiling Exhaust Fan, Product # SP-A390-QD, 279-410 CFM



Model SP-A direct drive, ceiling mounted fan is designed to provide the lowest sounds levels for bathroom exhaust. Units feature an insulated housing and are ideal for residential, multi-family or hotel applications.

- Acoustic insulation absorbs sound ensuring quiet operation
- Spring loaded aluminum backdraft damper eliminates rattling
- External electrical access reduces installation time
- Speed controllable
- Designer grille included



A	B	C	D	E
14 in	11.875 in	11.25 in	8 in	8 in

**Certifications**  
AMCA Air & Sound  
UL/cUL 507



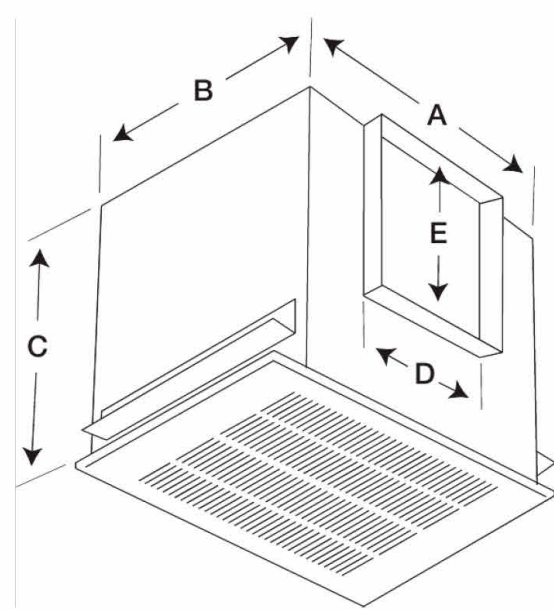
SKU  
SP-A110-QD

Job Name:  
Mark:  
Submitted By:  
Date: 12/04/2023

### Bathroom Exhaust Fan, Product # SP-A110-QD, 98-130 CFM



- Motion and humidity sensing grille options available
- Acoustic insulation absorbs sound ensuring quiet operation
- ENERGY STAR rated
- External electrical access reduces installation time
- Industry leading low sound levels
- Speed controllable
- Spring loaded aluminum backdraft damper eliminates rattling
- Designer grille included



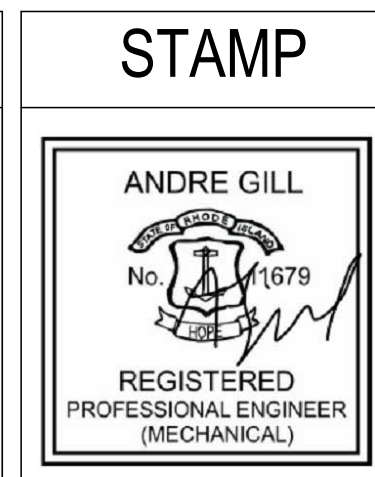
A	B	C	D	E
13.25 in	10.625 in	9 in	8 in	6 in

**Certifications**  
AMCA Air & Sound  
UL/cUL 507



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CONSULTANTS		
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<b>Project Title:</b> ADA BATHROOM UPGRADES	<b>Project Number</b> 2355
<b>Location:</b> 662 HARTFORD AVE PROVIDENCE, RI 02909	<b>Drawing Scale</b>
<b>Drawing Title:</b> MECHANICAL SCHEDULE	<b>Drawing Number</b> M5.00
<b>Issue Date:</b> 05DEC23	<b>Approved By:</b> AG
<b>Drawn By:</b> AGE	<b>Checked By:</b> AG

1/10/2024 7:30:51 PM



DEMO PLUMBING CALLOUT NOTES	
#	NOTE
D1	DEMO ALL FIXTURES AND SANITARY WASTE AND VENT PIPING. DOMESTIC LINE SIZING UNKNOWN.
D2	VERIFY EXACT LOCATIONS AND SIZES OF ALL DOMESTIC WATER, SANITARY WASTE AND VENT SUPPLY AND MAIN PIPING IN FIELD. MINIMUM REQUIRED SIZES ARE SHOWN ON NEW WORK DRAWINGS.
D3	LIMITATION OF DEMOLITION.
D4	LIMIT OF DEMOLITION FOR DOMESTIC WATER PIPING SUPPLYING KITCHEN FIXTURES.

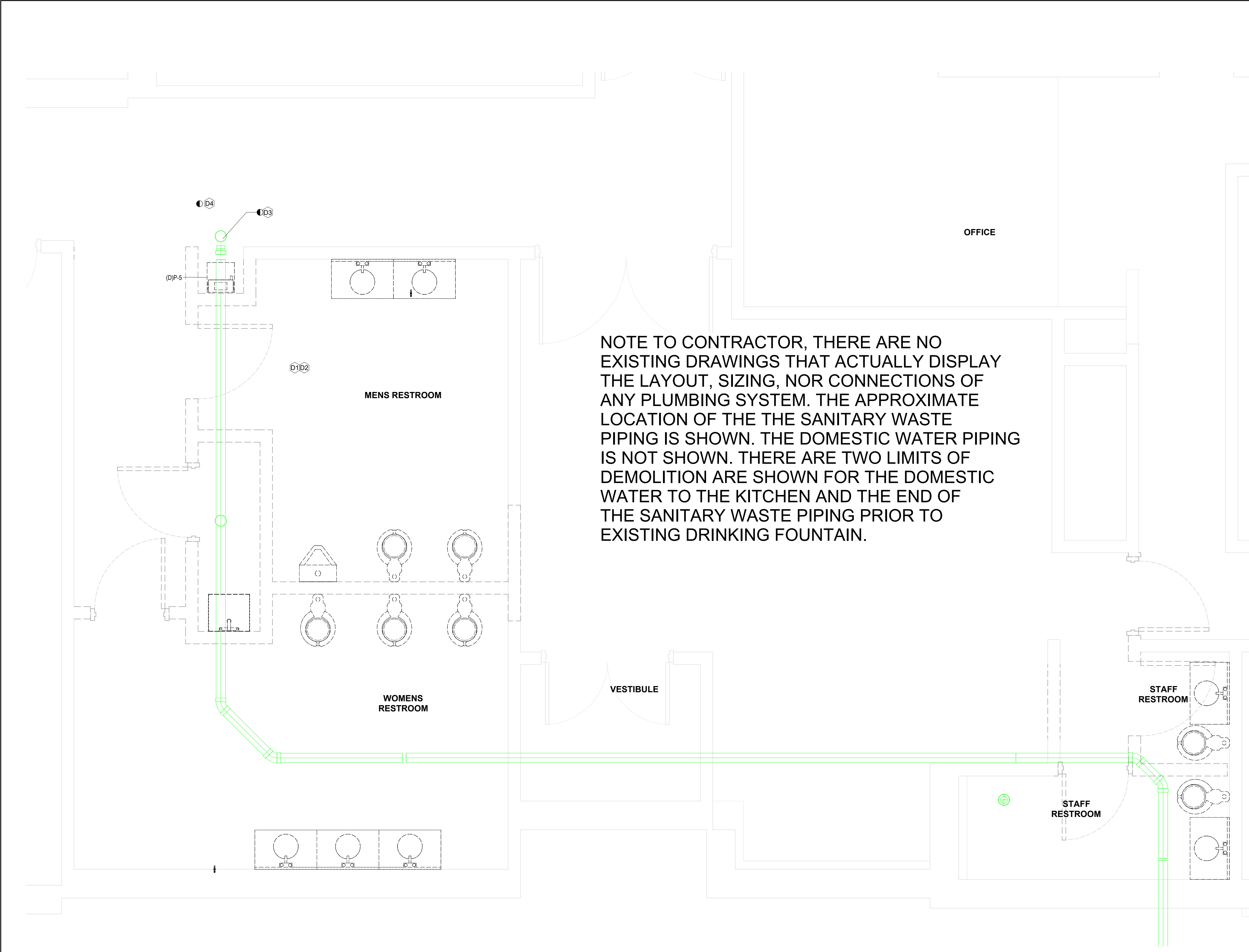
PLUMBING CALLOUT NOTES	
#	NOTE
1	CONNECT TRAP PRIMER TO NEAREST DOMESTIC WATER SOURCE.
2	INSTALL WALL CLEANOUT AND WATER HAMMER ARRESTOR.
3	POINT OF CONNECTION TO EXISTING SYSTEM.
4	LAVATORY CAN BE MULTISTATION. SEE SPECIFICATIONS FOR DETAILS.
5	INSTALL MASTER THERMOSTATIC MIXING VALVE ASSE 1017.
6	INSTALL CONDENSATE NEUTRALIZATION SYSTEM.
7	PROVIDE PVI COMPLIANT INTAKE AND EXHAUST VENTING FOR CONDENSING WATER HEATER.
8	CP-1 BELL & GOSSETT CIRCULATOR PUMP.

### GENERAL PLUMBING SHEET NOTES

- A. PROVIDE ACCESS PANELS IN NON-ACCESSIBLE AREAS (RATED OR NON-RATED) 24"X24"X1/2" LARGER ACCESS PANELS FOR LARGER EQUIPMENT AS REQUIRED BY CODE. COORDINATE WITH ARCHITECT FOR APPROVAL OF FINAL LOCATIONS PRIOR TO INSTALLATION.
- B. PROVIDE FIRESTOPPING AT PASS THROUGH PIPE PENETRATIONS THROUGH RATED WALLS. COORDINATE WITH OTHER TRADES THAT MAY HAVE PENETRANTS AROUND THE SAME AREA. REFER TO ARCHITECTURAL SHEETS FOR RATING ASSEMBLIES.
- C. INSULATION MATERIALS APPLIED TO DUCTWORK SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND SMOKE DENSITY NOT EXCEEDING 50.
- D. REQUIRED OFFSETS, COMPONENTS, ACCESSORIES, AND FITTINGS MAY NOT BE SHOWN BUT SHALL BE PROVIDED AS REQUIRED TO AVOID INTERFERENCES WITH UNFORESEEN COMPONENTS.
- E. PROVIDE DIELECTRIC UNIONS, GASKETS, AND FASTENERS AT DISSIMILAR METAL CONNECTIONS OF CONTACT POINTS.
- F. MAINTAIN A 3'-0" DISTANCE FROM ENVIRONMENTAL EXHAUST OUTLETS (AS DEFINED IN RI SBC) TO BUILD OPENINGS AND 10'-0" DISTANCE TO MECHANICALLY FORCED AIR INLET.
- G. ROOF SUPPORTS SHALL BE POSITIVELY ATTACHED TO THE ROOF STRUCTURE.
- H. EXTENDED CLEANOUTS TO FINISHED FLOOR OR WALL SURFACE AND ACCOMMODATE FINISH. LUBRICATE THREADED CLEANOUT PLUGS WITH MIXTURE OF GRAPHITE AND LINSEED OIL. ENSURE CLEARANCE AT CLEANOUT FOR RODDING OF DRAINAGE SYSTEM.
- I. INSTALL APPROVED POTABLE WATER PROTECTION DEVICES ON PLUMBING LINES WHERE CONTAMINATION OF DOMESTIC WATER MAY OCCUR: (BOILER FEED WATER LINES, JANITOR ROOMS, FIRE SPRINKLER SYSTEMS, PREMISE ISOLATION, IRRIGATION SYSTEMS, FLUSH VALVES, INTERIOR AND EXTERIOR HOSE BIBBS).
- J. PIPE RELIEF FROM BACKFLOW PREVENTER TO NEAREST DRAIN.
- K. INSTALL WATER HAMMER ARRESTORS COMPLETE WITH ACCESSIBLE ISOLATION VALVE ON HOT AND COLD WATER SUPPLY PIPING TO LAVATORY SINKS, WASHING MACHINE OUTLETS, OR AS REQUIRED BY CODE.
- L. INSTALL AIR CHAMBERS ON HOT AND COLD WATER SUPPLY PIPING TO EACH FIXTURE OR GROUP OF FIXTURES (EACH WASHROOM); FABRICATE SAME SIZE AS SUPPLY PIPE OR 3/4" MINIMUM, AND MINIMUM 18" LONG.

**NOTE TO CONTRACTOR, THERE ARE NO EXISTING DRAWINGS THAT ACTUALLY DISPLAY THE LAYOUT, SIZING, NOR CONNECTIONS OF ANY PLUMBING SYSTEM. THE APPROXIMATE LOCATION OF THE THE SANITARY WASTE PIPING IS SHOWN. THE DOMESTIC WATER PIPING IS NOT SHOWN. THERE ARE TWO LIMITS OF DEMOLITION ARE SHOWN FOR THE DOMESTIC WATER TO THE KITCHEN AND THE END OF THE SANITARY WASTE PIPING PRIOR TO EXISTING DRINKING FOUNTAIN.**

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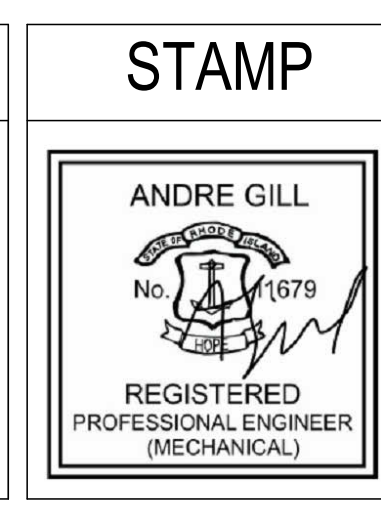


1 (D) OVERALL PLUMBING PLAN  
1/2" = 1'-0"



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<b>Location:</b> 662 HARTFORD AVE PROVIDENCE, RI 02909	<b>Drawing Scale:</b> As indicated
<b>Drawing Title:</b> (D) PLUMBING OVERALL	<b>Drawing Number:</b> P1.00
<b>Issue Date:</b> 10JAN24	<b>Approved By:</b> AG
<b>Drawn By:</b> AGE	<b>Checked By:</b> AG

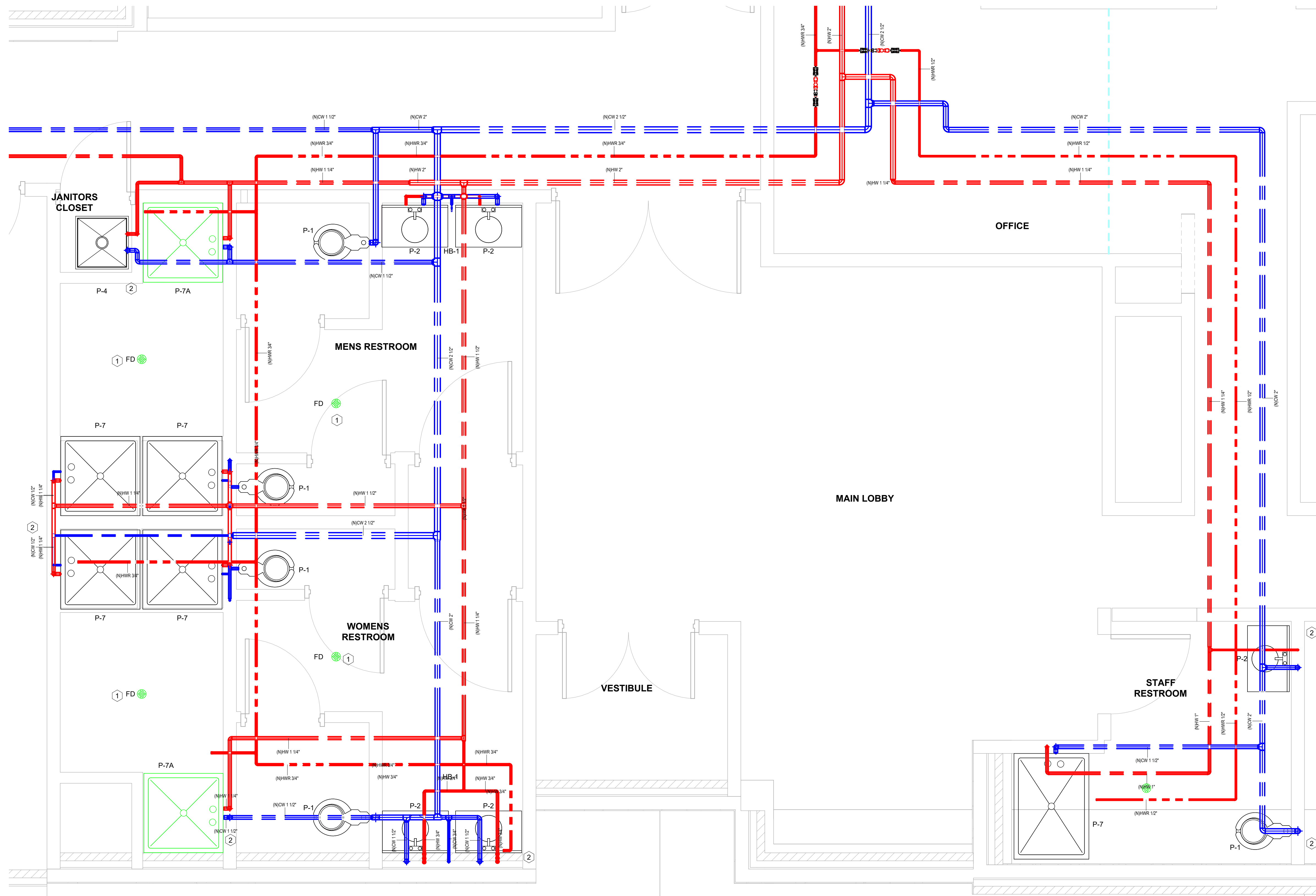


DEMO PLUMBING CALLOUT NOTES	
#	NOTE
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D2	VERIFY EXACT LOCATIONS AND SIZES OF ALL DOMESTIC WATER, SANITARY WASTE AND VENT SUPPLY AND MAIN PIPING REQUIRED SIZES ARE SHOWN ON REQUIRED SIZES ARE SHOWN ON NEW WORK DRAWINGS.
D3	LIMITATION OF DEMOLITION.
D4	LIMIT OF DEMOLITION FOR DOMESTIC WATER PIPING SUPPLYING KITCHEN FIXTURES.

PLUMBING CALLOUT NOTES	
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3	POINT OF CONNECTION TO EXISTING SYSTEM.
4	LAVATORY CAN BE MULTITASTATION. SEE SPECIFICATIONS FOR DETAILS.
5	INSTALL MASTER THERMOSTATIC MIXING VALVE ASSE 1017.
6	INSTALL CONDENSATE NEUTRALIZATION SYSTEM.
7	PROVIDE PVI COMPLIANT INTAKE AND EXHAUST VENTING FOR CONDENSING WATER HEATER.
8	CP-1 BELL & GOSSETT CIRCULATOR PUMP.

### GENERAL PLUMBING SHEET NOTES

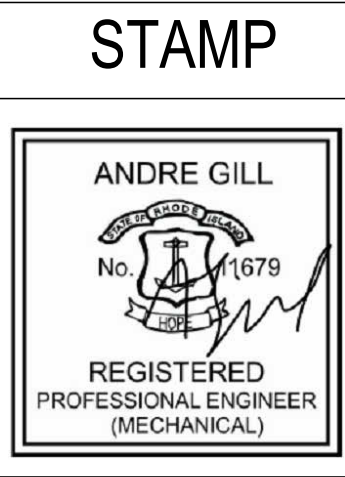
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(N) DOMESTIC OVERALL PLUMBING PLAN  
 1/2" = 1'-0"

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STATE OF RHODE ISLAND  
 Department of Administration

<b>Project Title:</b> ADA BATHROOM UPGRADES	<b>Project Number:</b> 2355
<b>Location:</b> 662 HARTFORD AVE PROVIDENCE, RI 02909	<b>Drawing Scale:</b> As indicated
<b>Drawing Title:</b> (N) DOMESTIC PLUMBING OVERALL	<b>Drawing Number:</b> P1.01
<b>Issue Date:</b> 10JAN24	<b>Approved By:</b> AG
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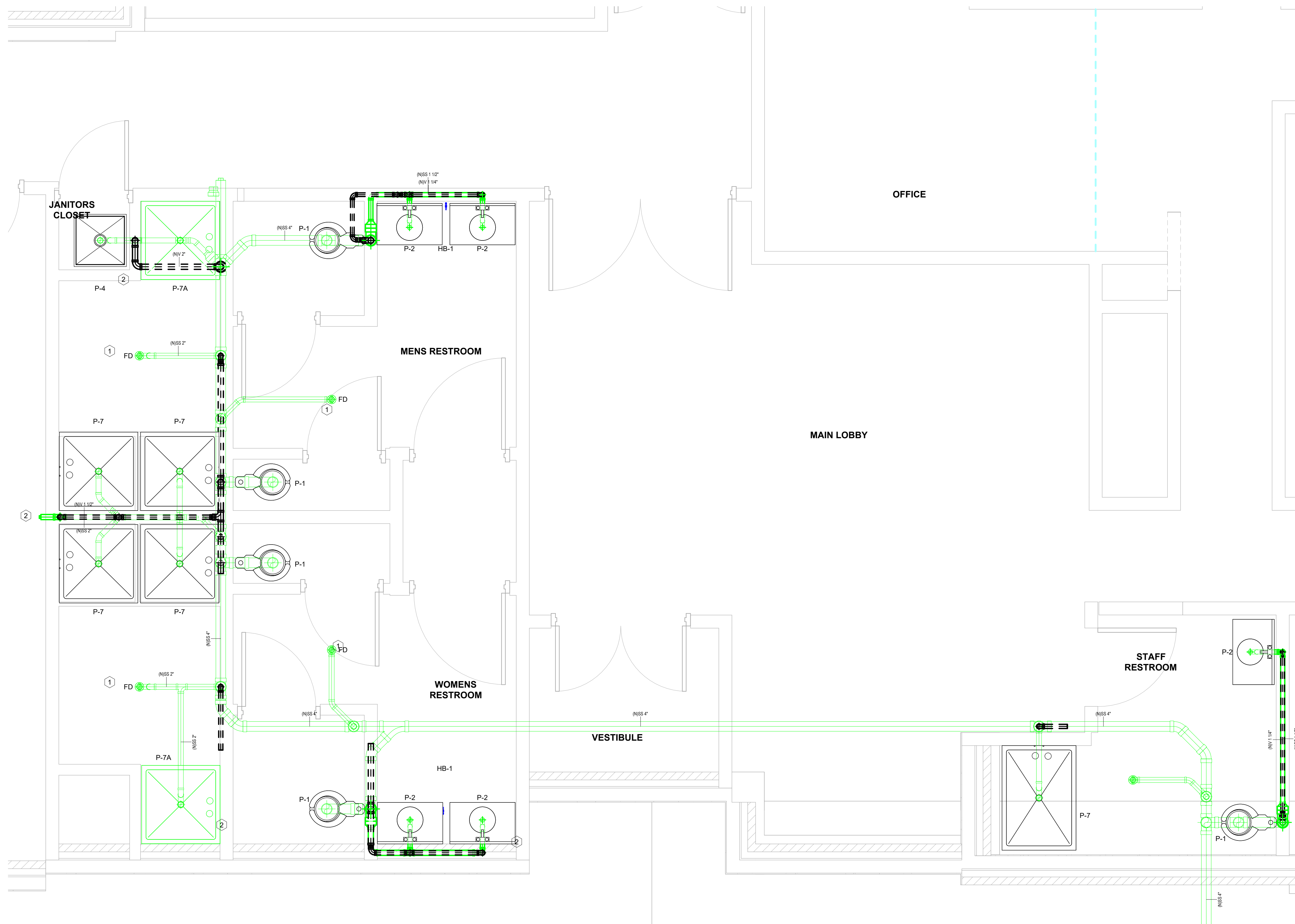
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DEMO PLUMBING CALLOUT NOTES	
#	NOTE
D1	DEMO ALL FIXTURES AND SANITARY WASTE AND VENT PIPING. DOMESTIC LINE SIZING UNKNOWN.
D2	VERIFY EXACT LOCATIONS AND SIZES OF ALL DOMESTIC WATER, SANITARY WASTE AND VENT SUPPLY AND MAIN PIPING REQUIRED SIZES ARE SHOWN ON NEW WORK DRAWINGS.
D3	LIMITATION OF DEMOLITION.
D4	LIMIT OF DEMOLITION FOR DOMESTIC WATER PIPING SUPPLYING KITCHEN FIXTURES.

PLUMBING CALLOUT NOTES	
#	NOTE
1	CONNECT TRAP PRIMER TO NEAREST DOMESTIC WATER SOURCE.
2	INSTALL WALL CLEANOUT AND WATER HAMMER ARRESTOR.
3	POINT OF CONNECTION TO EXISTING SYSTEM.
4	LAVATORY CAN BE MULTISTATION. SEE SPECIFICATIONS FOR DETAILS.
5	INSTALL MASTER THERMOSTATIC MIXING VALVE ASSE 1017.
6	INSTALL CONDENSATE NEUTRALIZATION SYSTEM.
7	PROVIDE PVI COMPLIANT INTAKE AND EXHAUST VENTING FOR CONDENSING WATER HEATER.
8	CP-1 BELL & GOSSETT CIRCULATOR PUMP.

### GENERAL PLUMBING SHEET NOTES

- A. PROVIDE ACCESS PANELS IN NON-ACCESSIBLE AREAS (RATED OR NON-RATED) 24"X24" MINIMUM. LARGER ACCESS PANELS FOR LARGER EQUIPMENT AS REQUIRED BY CODE. COORDINATE WITH ARCHITECT FOR APPROVAL OF FINAL LOCATIONS PRIOR TO INSTALLATION.
- B. PROVIDE FIRESTOPPING AT PASS THROUGH PIPE PENETRATIONS THROUGH RATED WALLS. COORDINATE WITH OTHER TRADES THAT MAY HAVE PENETRANTS AROUND THE SAME AREA. REFER TO ARCHITECTURAL SHEETS FOR RATING ASSEMBLIES.
- C. INSULATION MATERIALS APPLIED TO DUCTWORK SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND SMOKE DENSITY NOT EXCEEDING 50.
- D. REQUIRED OFFSETS, COMPONENTS, ACCESSORIES, AND FITTINGS MAY NOT BE SHOWN BUT SHALL BE PROVIDED AS REQUIRED TO AVOID INTERFERENCES WITH UNFORESEEN COMPONENTS.
- E. PROVIDE DIELECTRIC UNIONS, GASKETS, AND FASTENERS AT DISSIMILAR METAL CONNECTIONS OF CONTACT POINTS.
- F. MAINTAIN A 3'-0" DISTANCE FROM ENVIRONMENTAL EXHAUST OUTLETS (AS DEFINED IN RI SBC) TO BUILD OPENINGS AND 10'-0" DISTANCE TO MECHANICALLY FORCED AIR INLET.
- G. ROOF SUPPORTS SHALL BE POSITIVELY ATTACHED TO THE ROOF STRUCTURE.
- H. EXTENDED CLEANOUTS TO FINISHED FLOOR OR WALL SURFACE AND ACCOMMODATE FINISH. LUBRICATE THREADED CLEANOUT PLUGS WITH MIXTURE OF GRAPHITE AND LINSEED OIL. ENSURE CLEARANCE AT CLEANOUT FOR RODDING OF DRAINAGE SYSTEM.
- I. INSTALL APPROVED POTABLE WATER PROTECTION DEVICES ON PLUMBING LINES WHERE CONTAMINATION OF DOMESTIC WATER MAY OCCUR: (BOILER FEED WATER LINES, JANITOR ROOMS, FIRE SPRINKLER SYSTEMS, PREMISE ISOLATION, IRRIGATION SYSTEMS, FLUSH VALVES, INTERIOR AND EXTERIOR HOSE BIBBS).
- J. PIPE RELIEF FROM BACKFLOW PREVENTER TO NEAREST DRAIN.
- K. INSTALL WATER HAMMER ARRESTORS COMPLETE WITH ACCESSIBLE ISOLATION VALVE ON HOT AND COLD WATER SUPPLY PIPING TO LAVATORY SINKS, WASHING MACHINE OUTLETS, OR AS REQUIRED BY CODE.
- L. INSTALL AIR CHAMBERS ON HOT AND COLD WATER SUPPLY PIPING TO EACH FIXTURE OR GROUP OF FIXTURES (EACH WASHROOM); FABRICATE SAME SIZE AS SUPPLY PIPE OR 3/4" MINIMUM, AND MINIMUM 18" LONG.



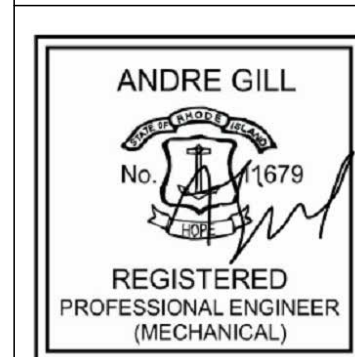
11/10/2024 7:31:00 PM

1 (N) SAN OVERALL PLUMBING PLAN  
1/2" = 1'-0"

### CONSULTANTS

<b>MEP ENGINEER:</b> Andre Gill Engineering, LLC 40 Overlea Road North Smithfield, RI 02896 T: 401.441.3414 W: www.andregillengineering.com E: andregill@andregillengineering.com	<b>FIRE PROTECTION:</b> Engineering Planning & Management, INC 959 Concord St. Framingham, MA 01701 T: 508.875.2121 W: www.epm-inc.com	<b>ARCHITECT:</b> Northeast Collaborative Architects 650 Ten Rod Rd, Unit 4 North Kingstown, RI 02852 T: 401.846.9583 W: www.ncarchitects.com
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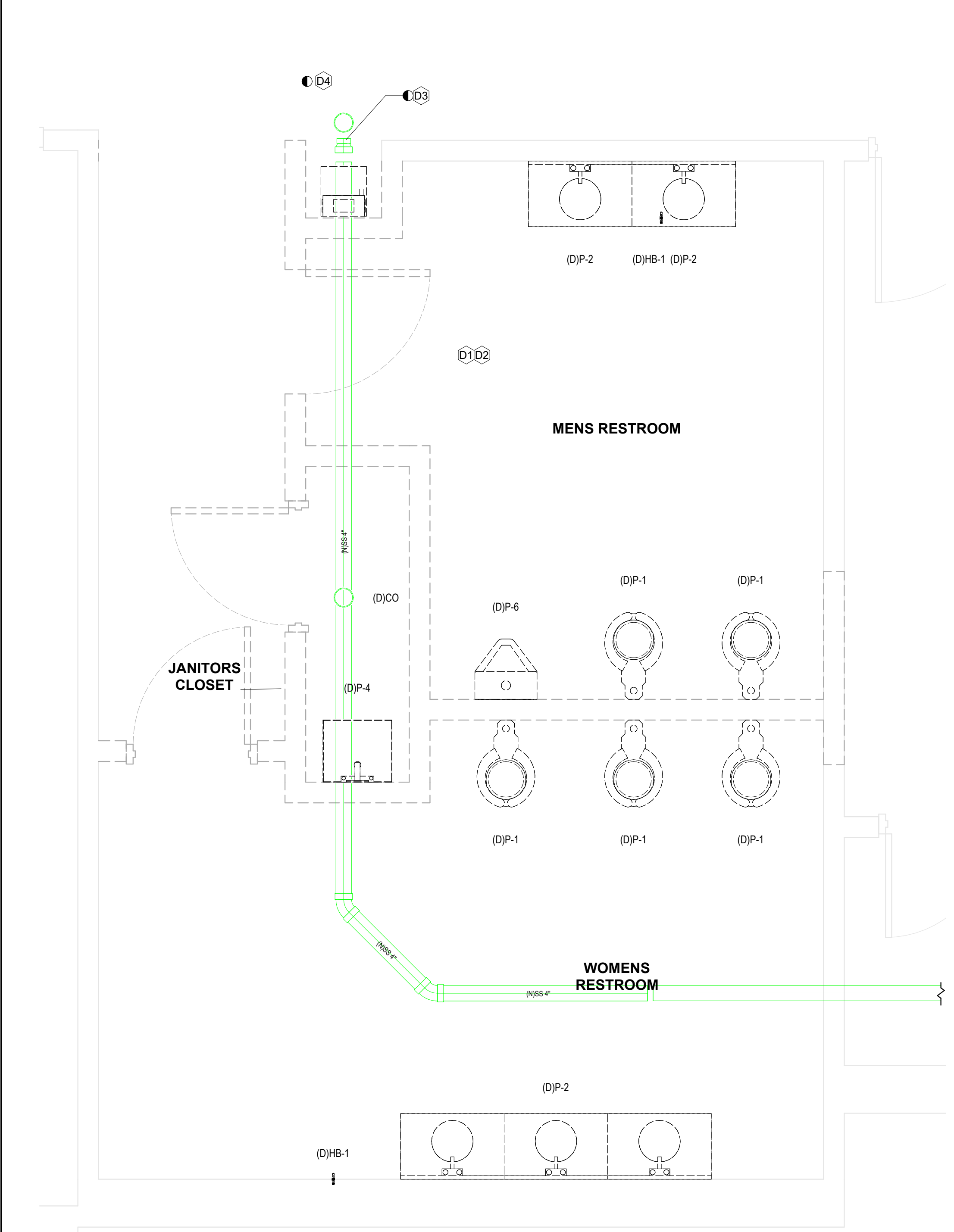
<b>Project Title:</b> ADA BATHROOM UPGRADES	<b>Project Number:</b> 2355
<b>Location:</b> 662 HARTFORD AVE PROVIDENCE, RI 02909	<b>Drawing Scale:</b> As indicated
<b>Drawing Title:</b> (N) SAN OVERALL PLUMBING	<b>Drawing Number:</b> P1.11
<b>Issue Date:</b> 10JAN24	<b>Approved By:</b> AG
<b>Drawn By:</b> AGE	<b>Checked By:</b> AG

DEMO PLUMBING CALLOUT NOTES	
#	NOTE
D1	DEMO ALL FIXTURES AND SANITARY WASTE AND VENT PIPING. DOMESTIC LINE SIZING UNKNOWN.
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D4	LIMIT OF DEMOLITION FOR DOMESTIC WATER PIPING SUPPLYING KITCHEN FIXTURES.

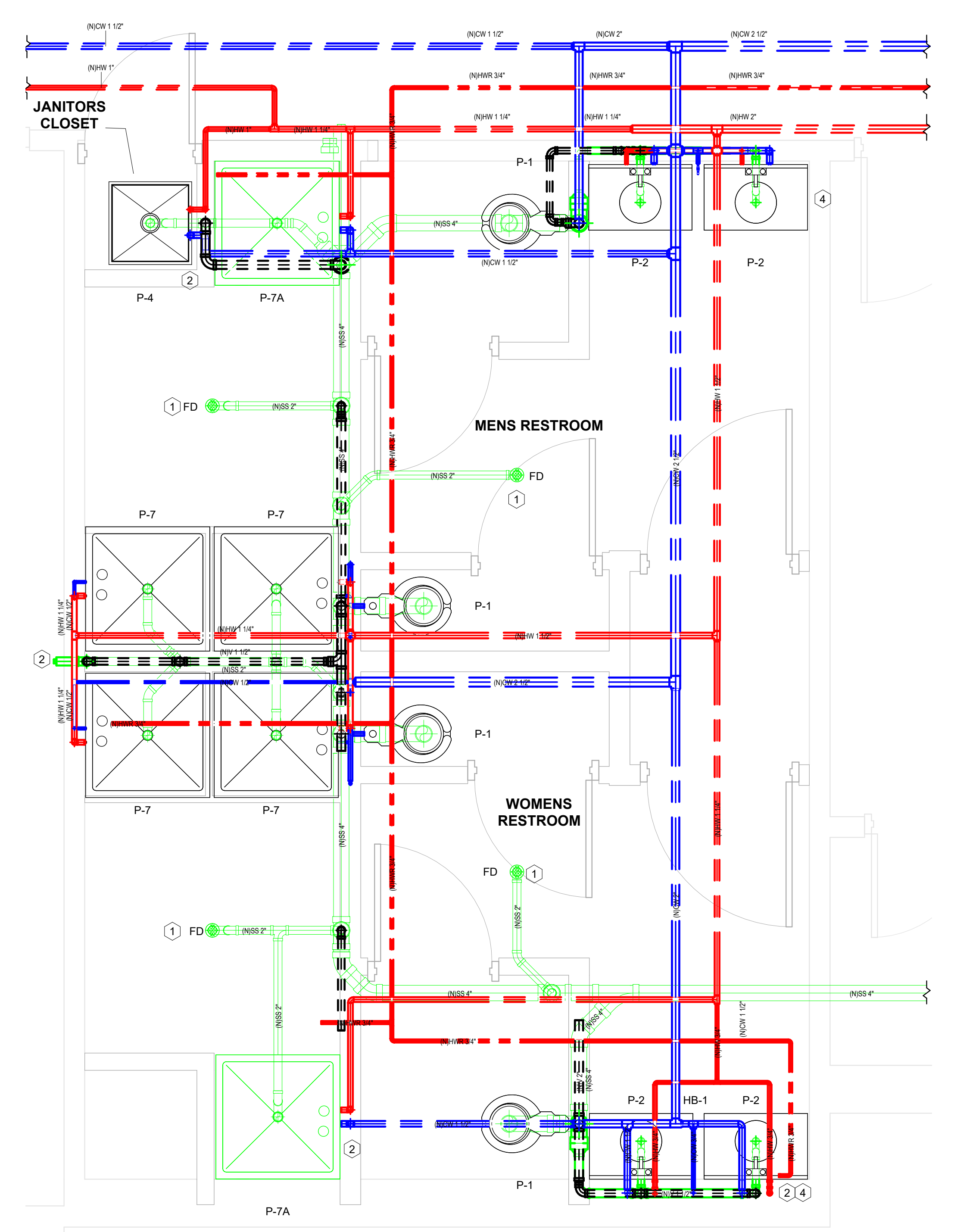
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- H. EXTENDED CLEANOUTS TO FINISHED FLOOR OR WALL SURFACE AND ACCOMMODATE FINISH. LUBRICATE THREADED CLEANOUT PLUGS WITH MIXTURE OF GRAPHITE AND LINSEED OIL. ENSURE CLEARANCE AT CLEANOUT FOR ROODING OF DRAINAGE SYSTEM.
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① (D) BATHROOMS PLUMBING  
1/2" = 1'-0"

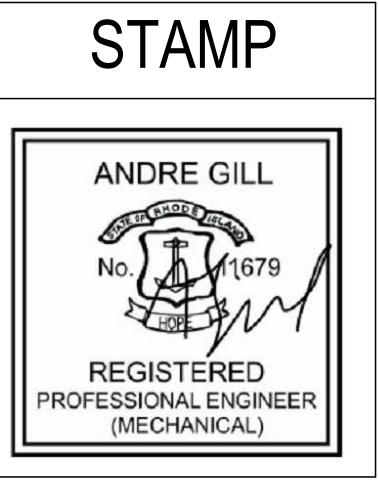


② (N) BATHROOMS PLUMBING  
1/2" = 1'-0"

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ISSUE FOR PERMIT	10JAN24
Revision:	Date:

CONSULTANTS		
<b>MEP ENGINEER:</b> Andre Gill Engineering, LLC 40 Overlea Road North Smithfield, RI 02896 T: 401.441.3414 W: www.andregillengineering.com E: andregill@andregillengineering.com	<b>FIRE PROTECTION:</b> Engineering Planning & Management, INC 959 Concord St. Framingham, MA 01701 T: 508.875.2121 W: www.epm-inc.com	<b>ARCHITECT:</b> Northeast Collaborative Architects 650 Ten Rod Rd, Unit 4 North Kingstown, RI 02852 T: 401.846.9583 W: www.ncarchitects.com



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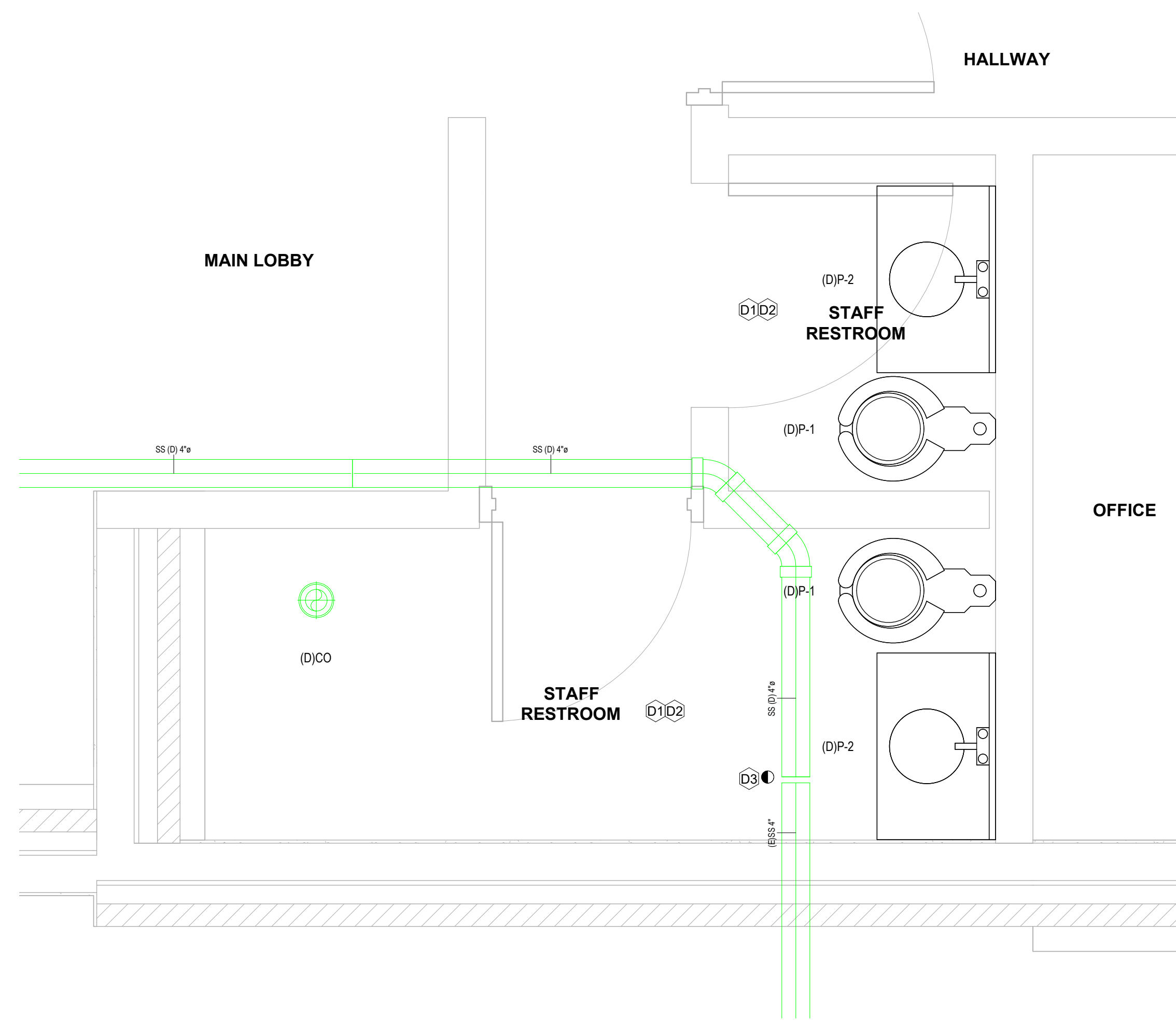
<b>Project Title:</b> ADA BATHROOM UPGRADES	<b>Project Number:</b> 2355
<b>Location:</b> 662 HARTFORD AVE PROVIDENCE, RI 02909	<b>Drawing Scale:</b> As indicated
<b>Drawing Title:</b> MAIN BATHROOMS	<b>Drawing Number:</b> P3.00
<b>Issue Date:</b> 10JAN24	<b>Approved By:</b> AG
<b>Drawn By:</b> AGE	<b>Checked By:</b> AG

DEMO PLUMBING CALLOUT NOTES	
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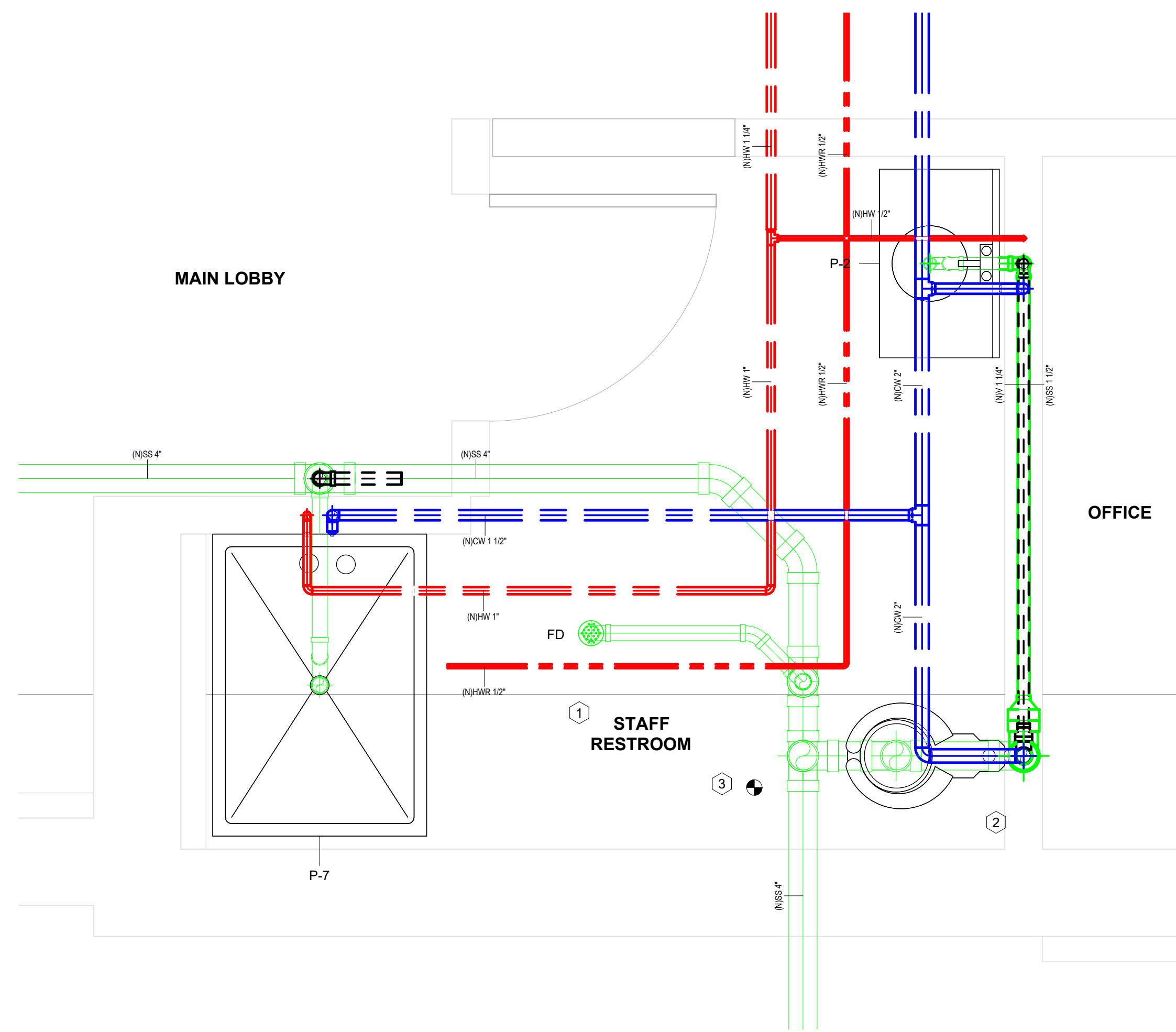
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① (D) STAFF BATHROOM PLUMBING  
3/4" = 1'-0"

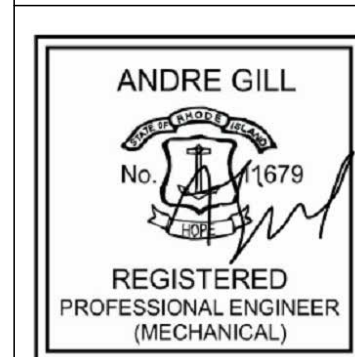


② (N) STAFF BATHROOM PLUMBING  
3/4" = 1'-0"

### CONSULTANTS

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<b>Project Title:</b> ADA BATHROOM UPGRADES	<b>Project Number:</b> 2355
<b>Location:</b> 662 HARTFORD AVE PROVIDENCE, RI 02909	<b>Drawing Scale:</b> As indicated
<b>Drawing Title:</b> STAFF BATHROOMS	<b>Drawing Number:</b> P3.01
<b>Issue Date:</b> 10JAN24	<b>Approved By:</b> AG
<b>Drawn By:</b> AGE	<b>Checked By:</b> AG

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DEMO PLUMBING CALLOUT NOTES	
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DOMESTIC HOT WATER PIPING TAKES AN UNKNOWN PATH. CONTRACTOR TO CONFIRM THE SIZE OF EXISTING PIPING. IF IT DOES NOT MATCH OR EXCEED WHAT IS SHOWN IN THE NEW WORK, THEN THE PIPING SHALL BE REPLACED UP TO THE LIMIT OF DEMOLITION OF DOMESTIC WATER PIPING TO KITCHEN.

TS-1 (1.1 GPM) @ 130F  
 TS-2 (0.5 GPM) @ 130F

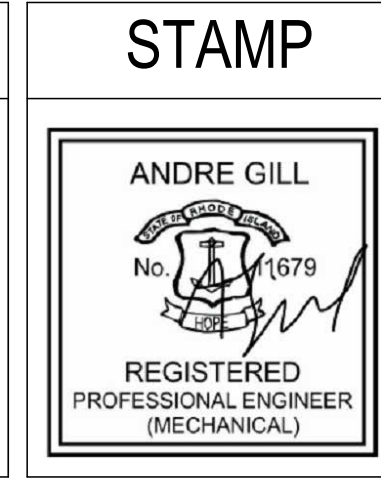
1 (D) MECHANICAL ROOM  
 1/2" = 1'-0"

2 (N) MECHANICAL ROOM  
 1/2" = 1'-0"

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Revision:	Date:

CONSULTANTS		
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<b>Location:</b> 662 HARTFORD AVE PROVIDENCE, RI 02909	<b>Drawing Scale:</b> As indicated
<b>Drawing Title:</b> MECHANICAL ROOM	<b>Drawing Number:</b> P3.02
<b>Issue Date:</b> 10JAN24	<b>Approved By:</b> AG
<b>Drawn By:</b> AGE	<b>Checked By:</b> AG

**PLUMBING FIXTURES SCHEDULE**

MARK	CWFU	SIZE	HWFU	SIZE	WFU	SIZE	VFU	SIZE	REMARK
KS	1		1		2	1 1/2"		1 1/4"	EXISTING TO REMAIN
LAV	1.5	0.5"	1.5	0.5"	1	1 1/4"		1 1/4"	
LAV	1.5	0.5"	1.5	0.5"	1	1 1/4"		1 1/4"	
LAV	1.5	0.5"	1.5	0.5"	1	1 1/4"		1 1/4"	
LAV	1.5	0.5"	1.5	0.5"	1	1 1/4"		1 1/4"	
WC	10	1"			4	4"		2"	
WC	10	1"			4	4"		2"	
WC	10	1"			4	4"		2"	
WC	10	1"			4	4"		2"	
WC	10	1"			4	4"		2"	
SH	3	0.5"	3	0.5"	2	1 1/2"		1 1/4"	
SH	3	0.5"	3	0.5"	2	1 1/2"		1 1/4"	
SH	3	0.5"	3	0.5"	2	1 1/2"		1 1/4"	
SH	3	0.5"	3	0.5"	2	1 1/2"		1 1/4"	
SH	3	0.5"	3	0.5"	2	1 1/2"		1 1/4"	
SH	3	0.5"	3	0.5"	2	1 1/2"		1 1/4"	
SH	3	0.5"	3	0.5"	2	1 1/2"		1 1/4"	
DF	0.25	0.5"			0.5	1 1/4"		1 1/4"	
MS	2.25	0.5"	2.25	0.5"	2	1 1/2"		1 1/4"	
FD					2	2"		1 1/4"	
FD					2	2"		1 1/4"	
FD					2	2"		1 1/4"	
FD					2	2"		1 1/4"	
FD					2	2"		1 1/4"	
<b>TOTAL</b>	<b>82</b>		<b>31.75</b>		<b>53.5</b>			<b>0</b>	
<b>GPM</b>	<b>65</b>		<b>17</b>						

**HOT WATER CALCULATION**

Q= 500*GPM*DT	
GPM=	17
Delta T=	80
<b>Q output btu</b>	<b>680,000</b>

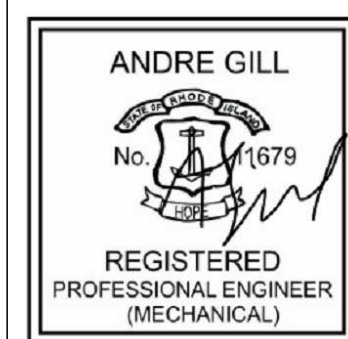
PLUMBING LEGEND				
ETR	DEMO	NEW	ABBREVIATION	DESCRIPTION
			P-1	NO BASIS OF DESIGN SELECTED. PLEASE SEE SPECIFICATIONS FOR FURTHER DETAILS
			P-1A	NO BASIS OF DESIGN SELECTED. PLEASE SEE SPECIFICATIONS FOR FURTHER DETAILS
			P-2	MANUAL OPERATED. NO BASIS OF DESIGN SELECTED. PLEASE SEE SPECIFICATIONS FOR FURTHER DETAILS.
			P-2A	LAVATORY BRADLEY VERGE WASH BASIN LVAD2
			P-3	LAVATORY BRADLEY VERGE WASH BASIN LVAD3
			P-4	NO BASIS OF DESIGN SELECTED. PLEASE SEE SPECIFICATIONS FOR FURTHER DETAILS
			P-5	ELKAY EZH20 BOTTLE FILLING STATION & VERSATILE BI-LEVEL ADA VANDAL-RESISTANT COOLER FILTERED REFRIGERATED LIGHT GRAY MODEL LZSTL8WSVRLK
			P-6	NO BASIS OF DESIGN SELECTED. PLEASE SEE SPECIFICATIONS FOR FURTHER DETAILS
			P-7	SHOWER
			P-7A	SHOWER ADA
			P-8	VARIOUS EXISTING TO REMAIN SINKS
			P-9	EMERGENCY EYEWASH
			P-10	EMERGENCY SHOWER
			FD	VARIOUS. OPTIONS BASED ON LOCATION. NO BASIS OF DESIGN SELECTED. PLEASE SEE SPECIFICATIONS FOR FURTHER DETAILS.
			CO	VARIOUS. OPTIONS BASED ON LOCATION. NO BASIS OF DESIGN SELECTED. PLEASE SEE SPECIFICATIONS FOR FURTHER DETAILS.
			WCO	VARIOUS. OPTIONS BASED ON LOCATION. NO BASIS OF DESIGN SELECTED. PLEASE SEE SPECIFICATIONS FOR FURTHER DETAILS.
			HY-1	HYDRANT OUTDOOR
			HB-1	HOSE BIBS INDOOR
			CTE/POC	CONNECT TO EXISTING OR POINT OF CONNECTION
			LOD	LIMIT OF DEMOLITION
			KEYNOTE	
			POR	POINT OF REMOVAL

1/10/2024 7:31:08 PM

**CONSULTANTS**

<b>MEP ENGINEER:</b> Andre Gill Engineering, LLC 40 Overlea Road North Smithfield, RI 02896 T: 401.441.3414 W: www.andregillengineering.com E: andregill@andregillengineering.com	<b>FIRE PROTECTION:</b> Engineering Planning & Management, INC 959 Concord St. Framingham, MA 01701 T: 508.875.2121 W: www.epm-inc.com	<b>ARCHITECT:</b> Northeast Collaborative Architects 650 Ten Rod Rd, Unit 4 North Kingstown, RI 02852 T: 401.846.9583 W: www.ncarchitects.com
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**STAMP**



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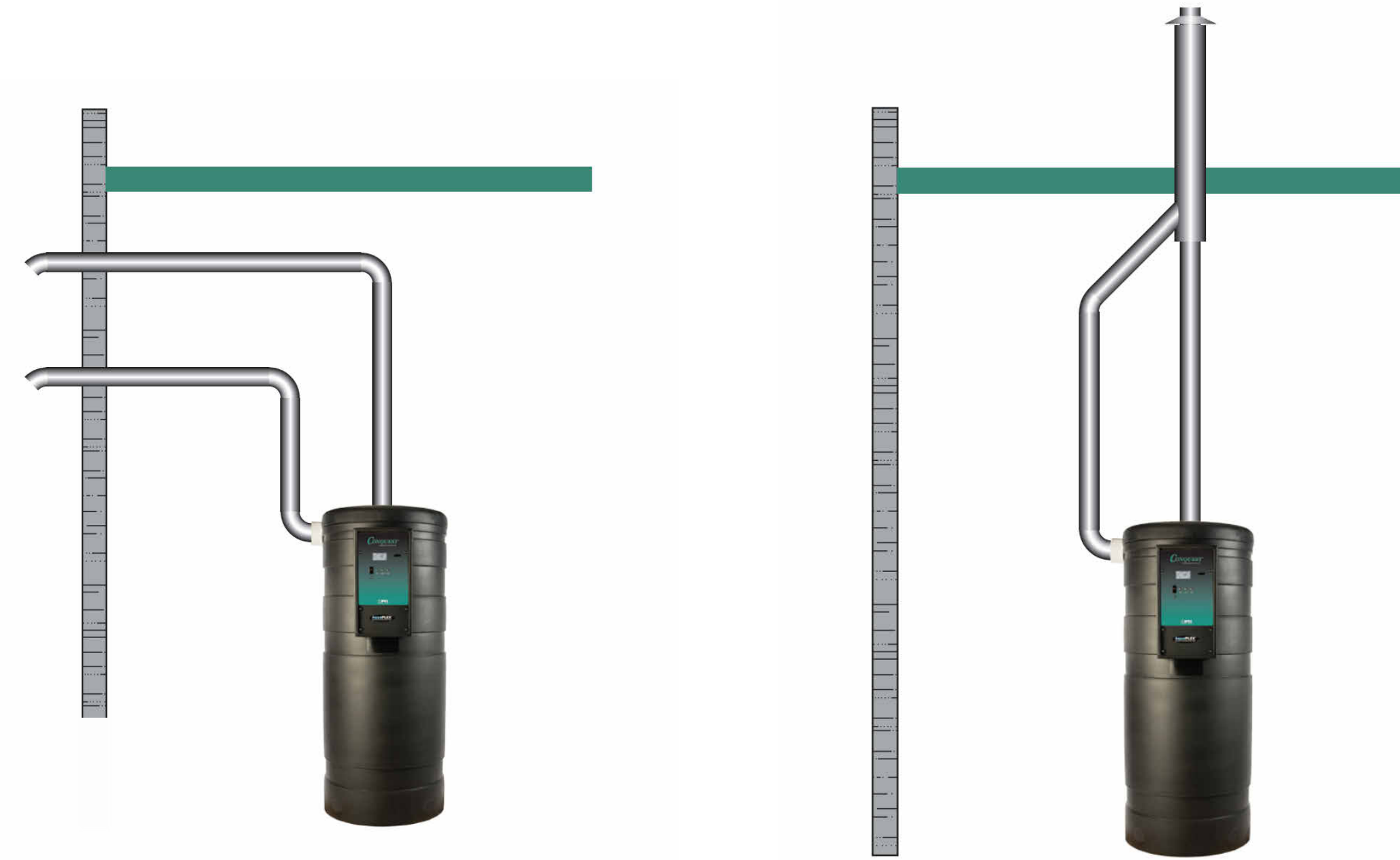
<b>Project Title:</b> ADA BATHROOM UPGRADES	<b>Project Number:</b> 2355
<b>Location:</b> 662 HARTFORD AVE PROVIDENCE, RI 02909	<b>Drawing Scale:</b> 1/8" = 1'-0"
<b>Drawing Title:</b> PLUMBING SCHEDULE	<b>Drawing Number:</b> P5.00
<b>Issue Date:</b> 10JAN24	<b>Approved By:</b> AG
<b>Drawn By:</b> AGE	<b>Checked By:</b> AG

ISSUE FOR PERMIT 10JAN24  
Revision: Date:

WATER HEATER SCHEDULE (WH-#)											
MARK	MANUFACTURER	MODEL	INPUT BTU	FIRST HOUR RATING (GAL)	NOMINAL CAPACITY (GAL)	STORAGE VOL. (GAL)	UEF	ELECTRICAL	GAS (in w.c)	WARRANTY (YRS)	NOTES
WH-1	PVI	CONQUEST 70L 130A-GCML	700,000	130	130	91		120V, 1PH, 60 HZ	3.5-14	8-15	1,2,3

- NOTES:**
- CONDENSATE NEUTRALIZATION SYSTEM (500-800 MBH) PN 150772
  - FACTORY- AUTHORIZED STARTUP
  - AIR FILTRATION BOX (PN 121850)

PUMP SCHEDULE (CP-X, CWP-X, BP-X HWP-X)												
Mark	MARK	MANUFACTURER	MODEL	SERVICE	GPM	HEAD PRESSURE (FT)	MOTOR DATA					REMARKS
							MIN EFFICIENCY	BHP	HP	RPM	VOLT S	
CP-1		BELL & GOSSETT	ECCOIRC 20/18 SERIES	POTABLE WATER	1.5	8						

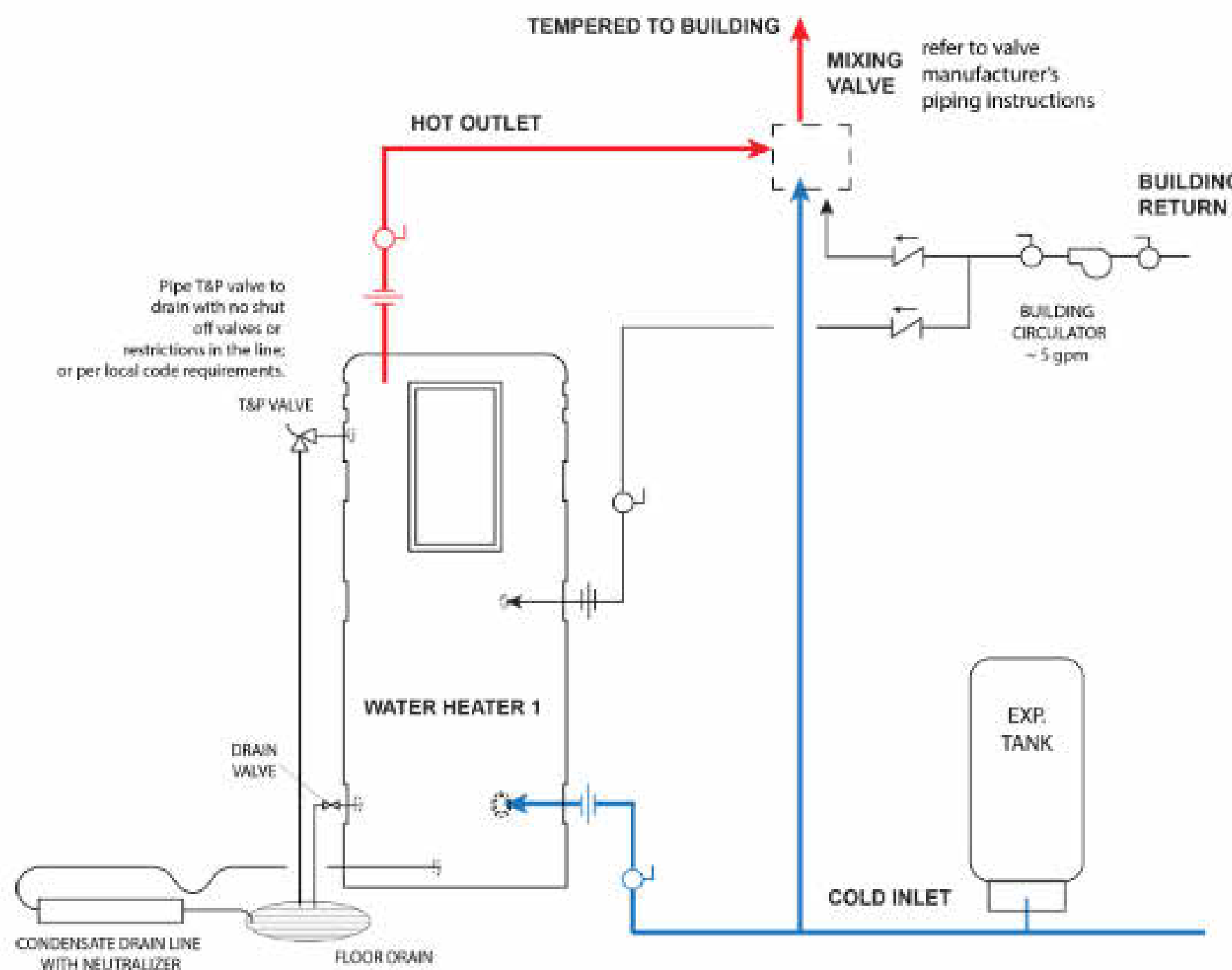


Conventional

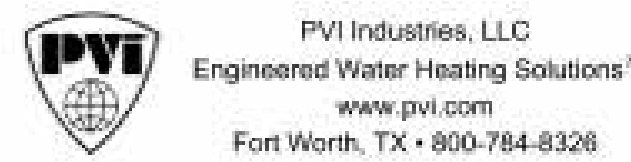
Concentric (roof or sidewall)

**Piping Guideline for one Conquest® or Power VTX® Water Heater**

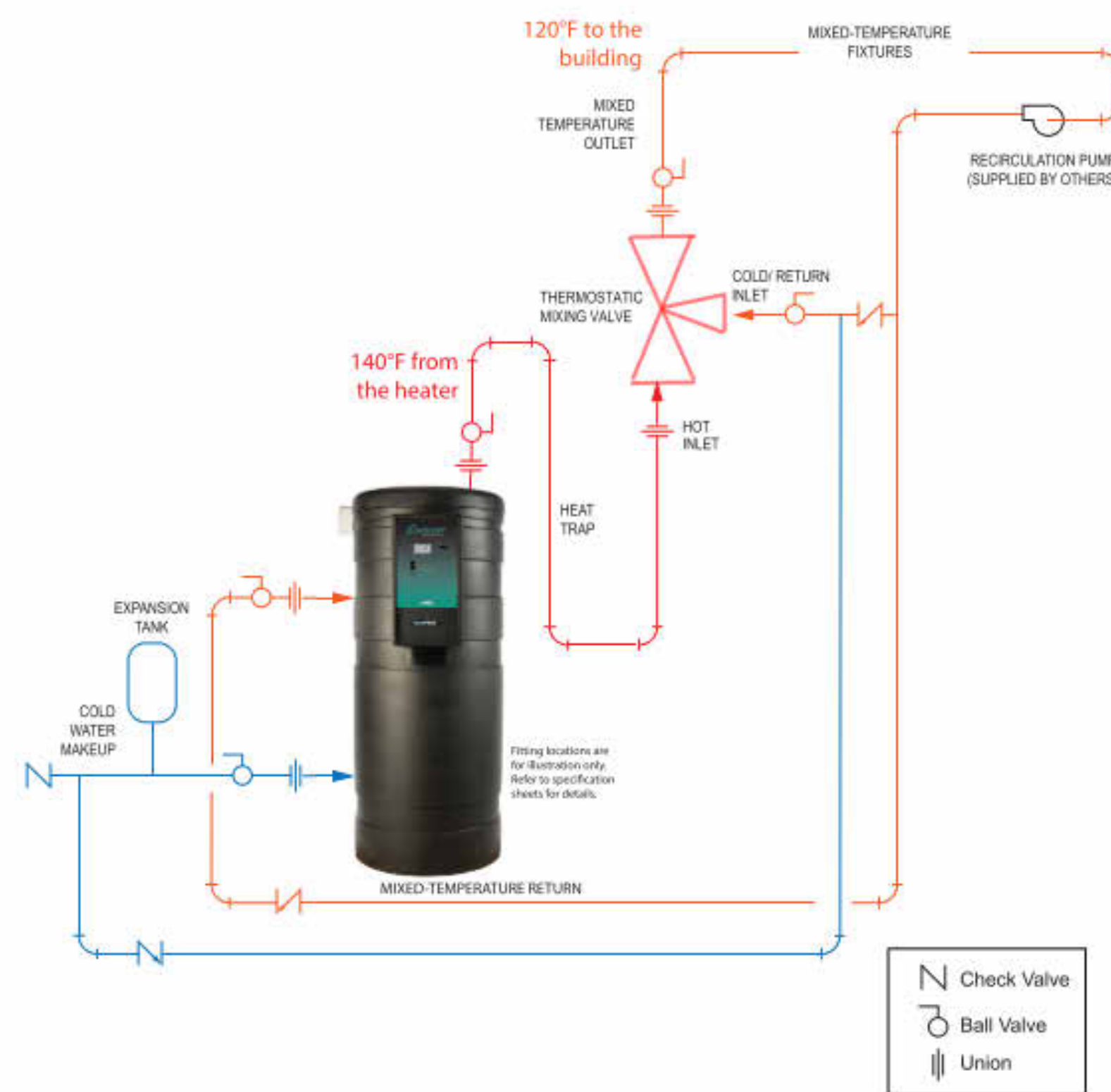
Refer to installation manual for complete details.



PV 8410 06-2016



**PIPING DIAGRAM: SINGLE-TEMPERATURE SYSTEM FOR CONDENSING GAS WATER HEATERS**

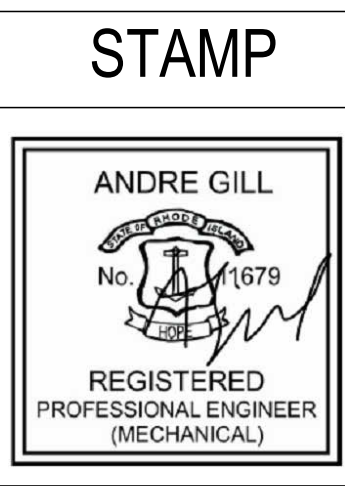


PV 8738 4-2019



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