

**HARRISON  
RECREATION &  
COMMUNITY  
CENTER**

New Construction - Phase 2  
Town / Village of Harrison  
270 Harrison Avenue  
Harrison, NY 10528

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**CONSTRUCTION DOCUMENTS**

Key Plan

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1	03/13/2020	50% DESIGN DEVELOPMENT

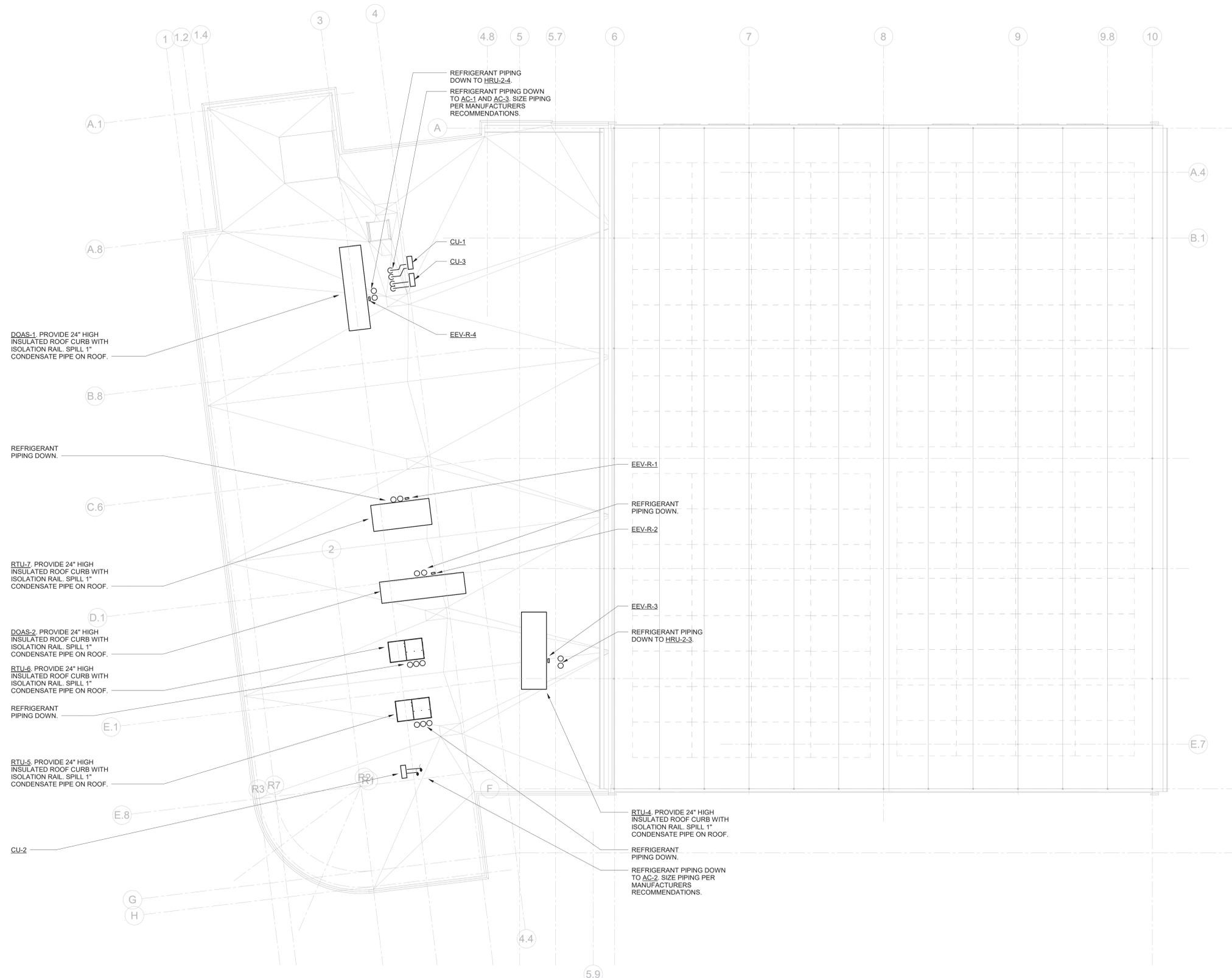
Sheet Title

**MECHANICAL  
ROOF PIPING  
PLAN**

Job No.	Date
NKGD0207.00	02/16/2024
Scale	Drawn / Checked
AS NOTED	HM / RG

Sheet Number

**M-304**



**MECHANICAL ROOF PIPING PLAN**

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

- NOTES:
- REFRIGERANT PIPING TO BE SIZED PER MANUFACTURERS RECOMMENDATIONS.
  - PROVIDE SHUT-OFF VALVES ON REFRIGERANT PIPING UPSTREAM AND DOWNSTREAM OF ALL EQUIPMENT FOR ISOLATION PURPOSES.

No.	Date	Issue
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Sheet Title

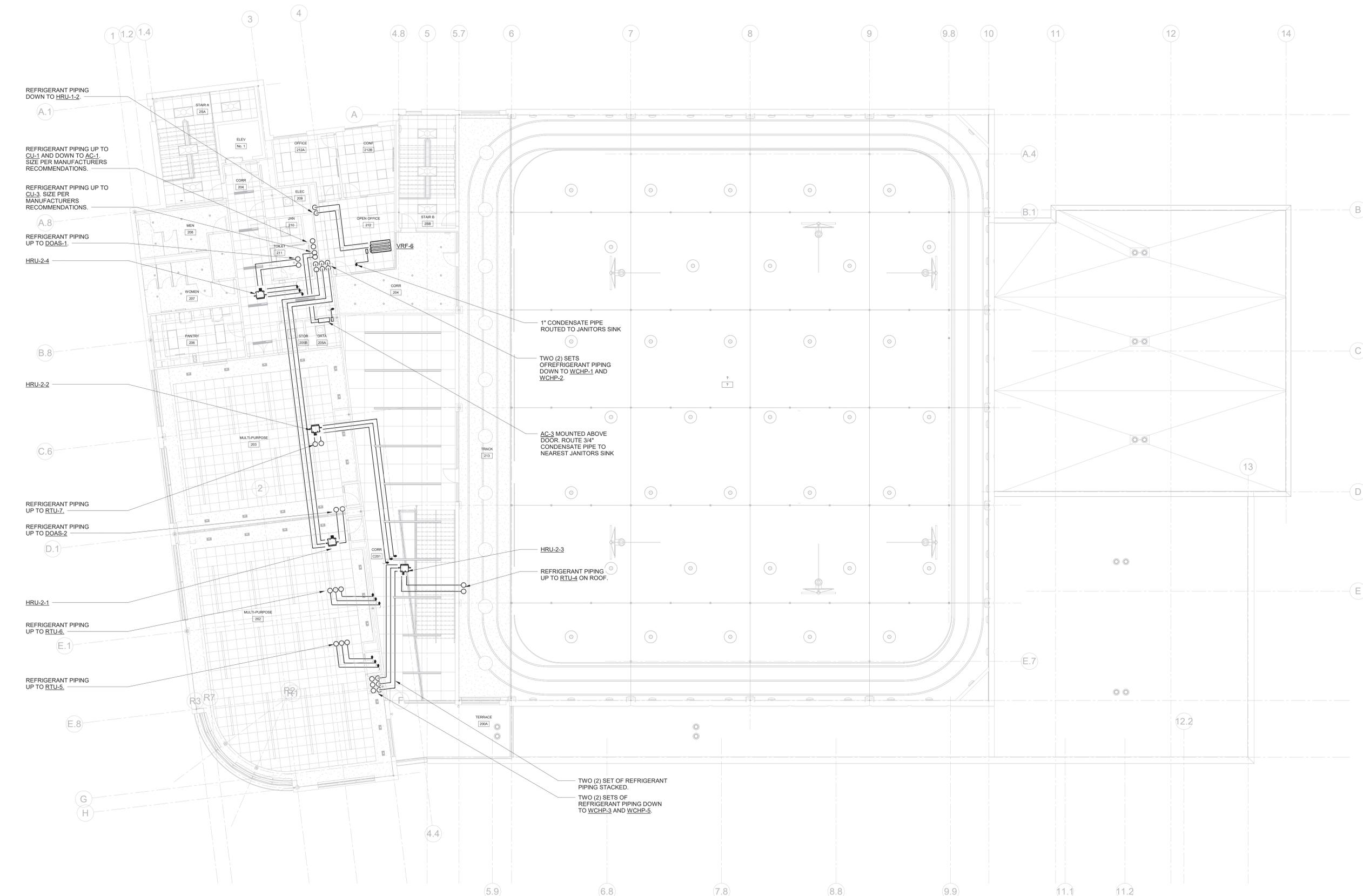
**MECHANICAL  
SECOND FLOOR  
PIPING PLAN**

Job No. NKG0207.00 Date 02/16/2024

Scale AS NOTED Drawn / Checked HM / RG

Sheet Number

**M-303**



**MECHANICAL SECOND FLOOR PIPING PLAN**

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

- NOTES:
1. PROVIDE CONDENSATE PUMP FOR ALL VRF INDOOR DUCTED UNIT. ROUTE 1" CONDENSATE TO CONDENSATE HEADER SHOWN ON PLANS AND PROVIDE WYE FITTING AT CONNECTION POINT.
  2. REFRIGERANT PIPING TO BE SIZED PER MANUFACTURERS RECOMMENDATIONS.
  3. PROVIDE SHUT-OFF VALVES ON REFRIGERANT PIPING UPSTREAM AND DOWNSTREAM OF ALL EQUIPMENT FOR ISOLATION PURPOSES.

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Sheet Title

**MECHANICAL  
FIRST FLOOR  
PIPING PLAN**

Job No.	Date
NKGD0207.00	02/16/2024

Scale	Drawn / Checked
AS NOTED	HM / RG

Sheet Number

**M-302**



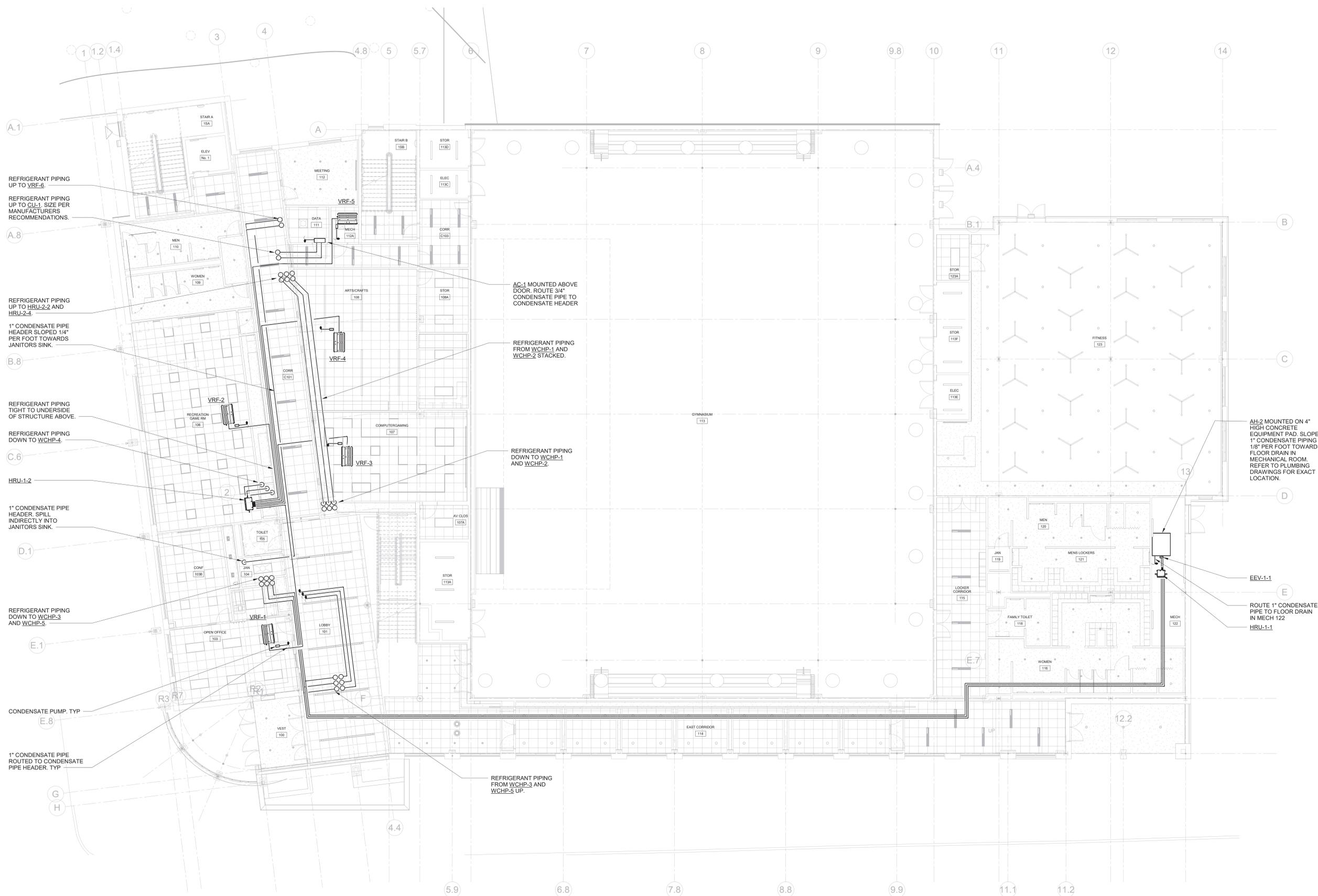
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**MECHANICAL FIRST FLOOR PIPING PLAN**

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

NOTES:

1. PROVIDE CONDENSATE PUMP FOR ALL VRF INDOOR DUCTED UNIT. ROUTE 1" CONDENSATE TO CONDENSATE HEADER SHOWN ON PLANS AND PROVIDE WYE FITTING AT CONNECTION POINT.
2. REFRIGERANT PIPING TO BE SIZED PER MANUFACTURERS RECOMMENDATIONS.
3. PROVIDE SHUT-OFF VALVES ON REFRIGERANT PIPING UPSTREAM AND DOWNSTREAM OF ALL EQUIPMENT FOR ISOLATION PURPOSES.



REFRIGERANT PIPING UP TO VRF-6.  
REFRIGERANT PIPING UP TO CU-1. SIZE PER MANUFACTURERS RECOMMENDATIONS.

REFRIGERANT PIPING UP TO HRU-2-2 AND HRU-2-4.

REFRIGERANT PIPING TIGHT TO UNDERSIDE OF STRUCTURE ABOVE.

REFRIGERANT PIPING DOWN TO WCHP-4.

HRU-1-2

1" CONDENSATE PIPE HEADER. SPILL INDIRECTLY INTO JANITORS SINK.

REFRIGERANT PIPING DOWN TO WCHP-3 AND WCHP-5.

CONDENSATE PUMP, TYP

1" CONDENSATE PIPE ROUTED TO CONDENSATE PIPE HEADER, TYP

AC-1 MOUNTED ABOVE DOOR. ROUTE 3/4" CONDENSATE PIPE TO CONDENSATE HEADER

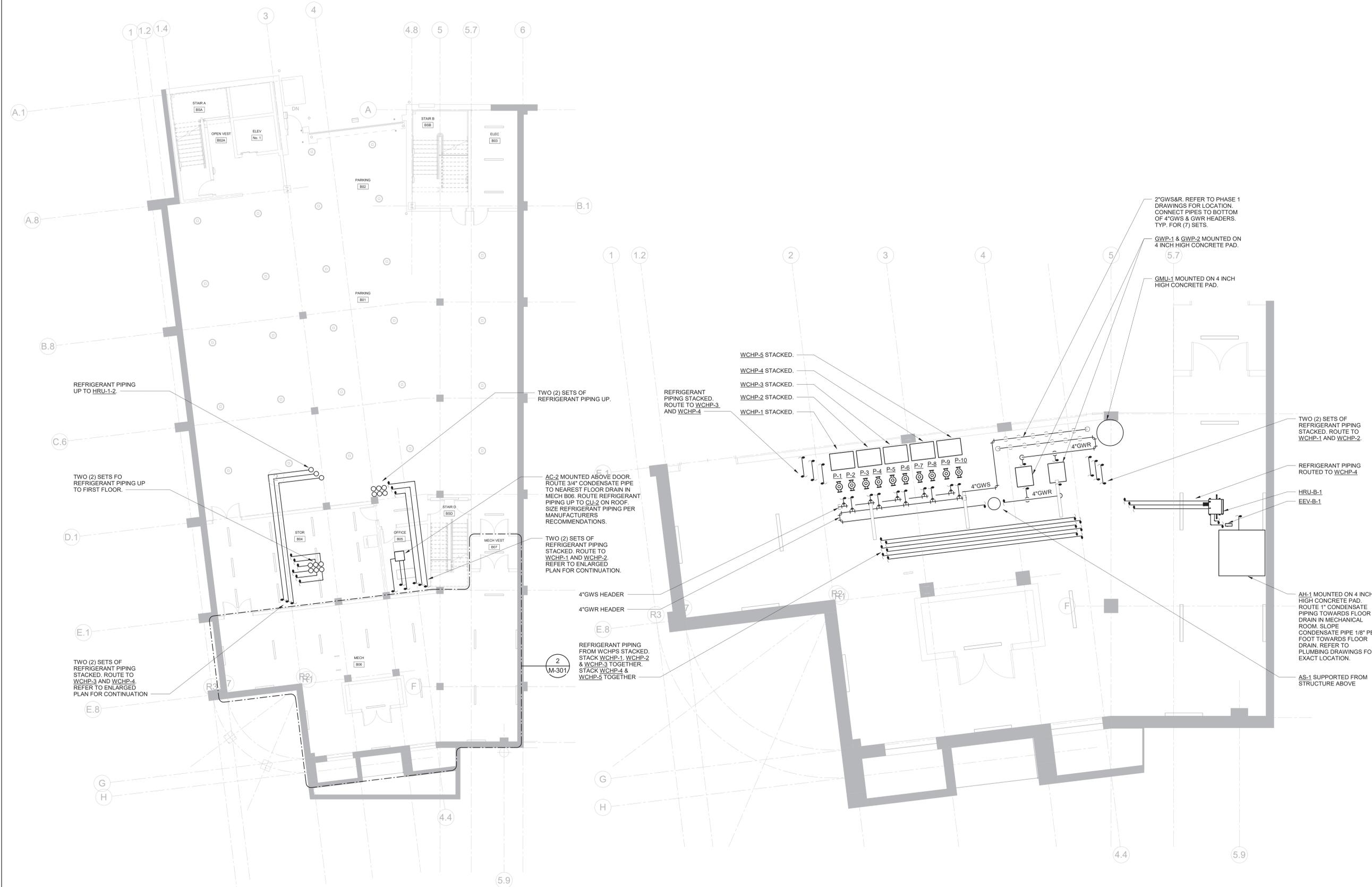
REFRIGERANT PIPING FROM WCHP-1 AND WCHP-2 STACKED.

REFRIGERANT PIPING DOWN TO WCHP-1 AND WCHP-2.

REFRIGERANT PIPING FROM WCHP-3 AND WCHP-5 UP.

AH-2 MOUNTED ON 4" HIGH CONCRETE EQUIPMENT PAD. SLOPE 1" CONDENSATE PIPING 1/8" PER FOOT TOWARDS FLOOR DRAIN IN MECHANICAL ROOM. REFER TO PLUMBING DRAWINGS FOR EXACT LOCATION.

EEV-1-1  
ROUTE 1" CONDENSATE PIPE TO FLOOR DRAIN IN MECH 122  
HRU-1-1



**1 MECHANICAL PARKING FLOOR PIPING PLAN**  
SCALE: 1/8" = 1'-0"  
NOTES:  
1. REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURERS RECOMMENDATIONS.  
2. PROVIDE SHUT-OFF VALVES ON REFRIGERANT PIPING UPSTREAM AND DOWNSTREAM OF ALL EQUIPMENT FOR ISOLATION PURPOSES.

**2 MECH B06 ENLARGED PIPING PLAN**  
SCALE: 1/4" = 1'-0"  
NOTES:  
1. REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURERS RECOMMENDATIONS.  
2. PROVIDE SHUT-OFF VALVES ON REFRIGERANT PIPING UPSTREAM AND DOWNSTREAM OF ALL EQUIPMENT FOR ISOLATION PURPOSES.

Key Plan

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**MECHANICAL  
PARKING PIPING  
PLAN**

Job No. NKGD0207.00 Date 02/16/2024  
Scale AS NOTED Drawn / Checked HM / RG  
Sheet Number  
**M-301**

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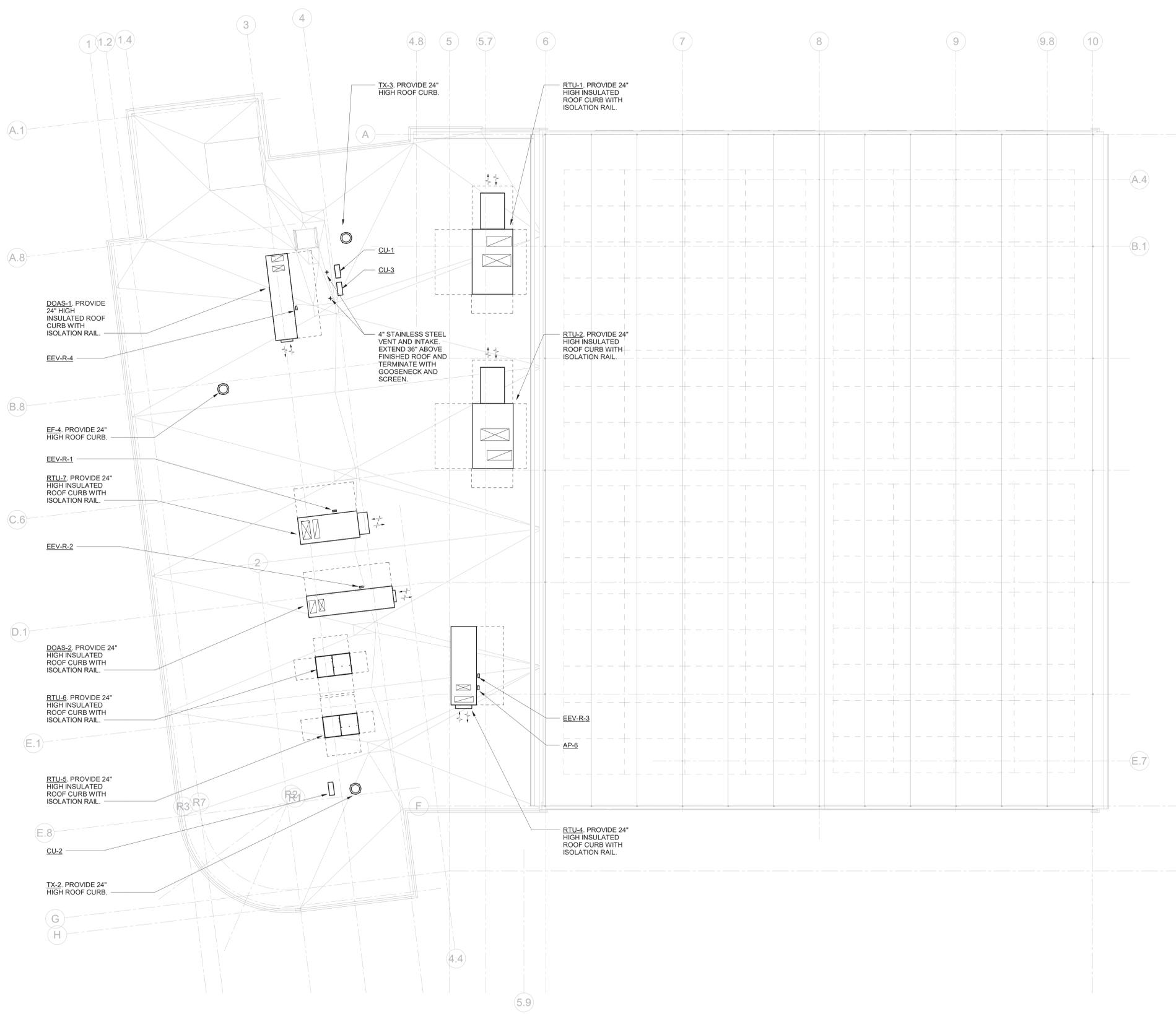
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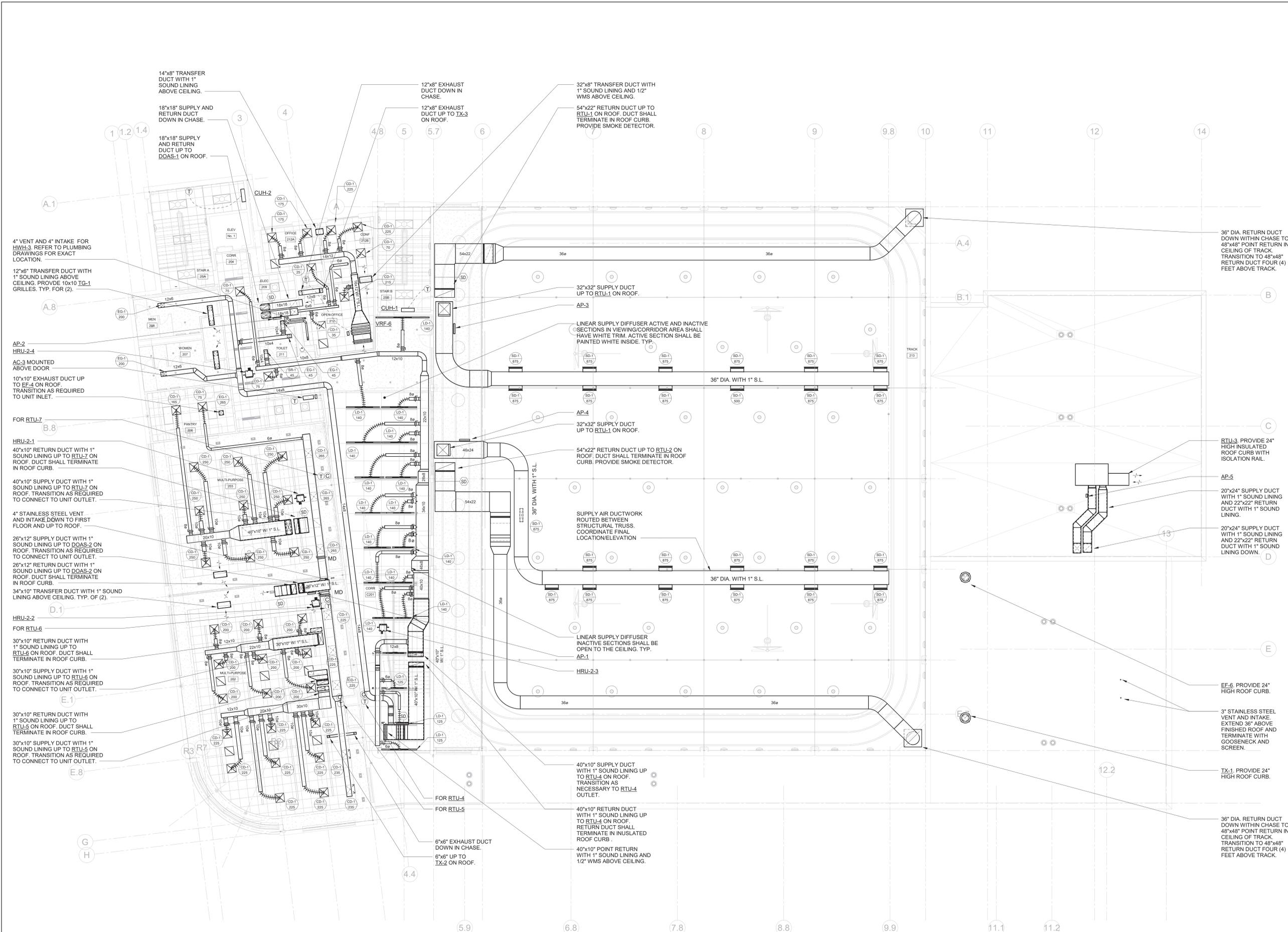
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Sheet Title	
<b>MECHANICAL ROOF PLAN</b>	
Job No. NKG0207.00	Date 02/16/2024
Scale AS NOTED	Drawn / Checked HM / RG
Sheet Number <b>M-204</b>	



**MECHANICAL ROOF PLAN**  
SCALE: 1/8" = 1'-0"





**MECHANICAL SECOND FLOOR PLAN**

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

- NOTES:
1. DUCTED VRF INDOOR UNITS: PROVIDE 24" DEEP, ACOUSTICALLY LINED, FULL SCALE RETURN AIR DUCT AT RETURN AIR CONNECTION WITH FILTER BANK AND VOLUME OR MOTORIZED DAMPER WHERE CALLED OUT.
  2. PROVIDE 'YOUNG' REGULATOR VOLUME DAMPERS IN ALL HARD CEILING AREAS FOR BALANCING PURPOSES.
  3. ALL VRF UNITS SHALL BE HUNG FROM STRUCTURE ABOVE. PROVIDE VIBRATION ISOLATORS

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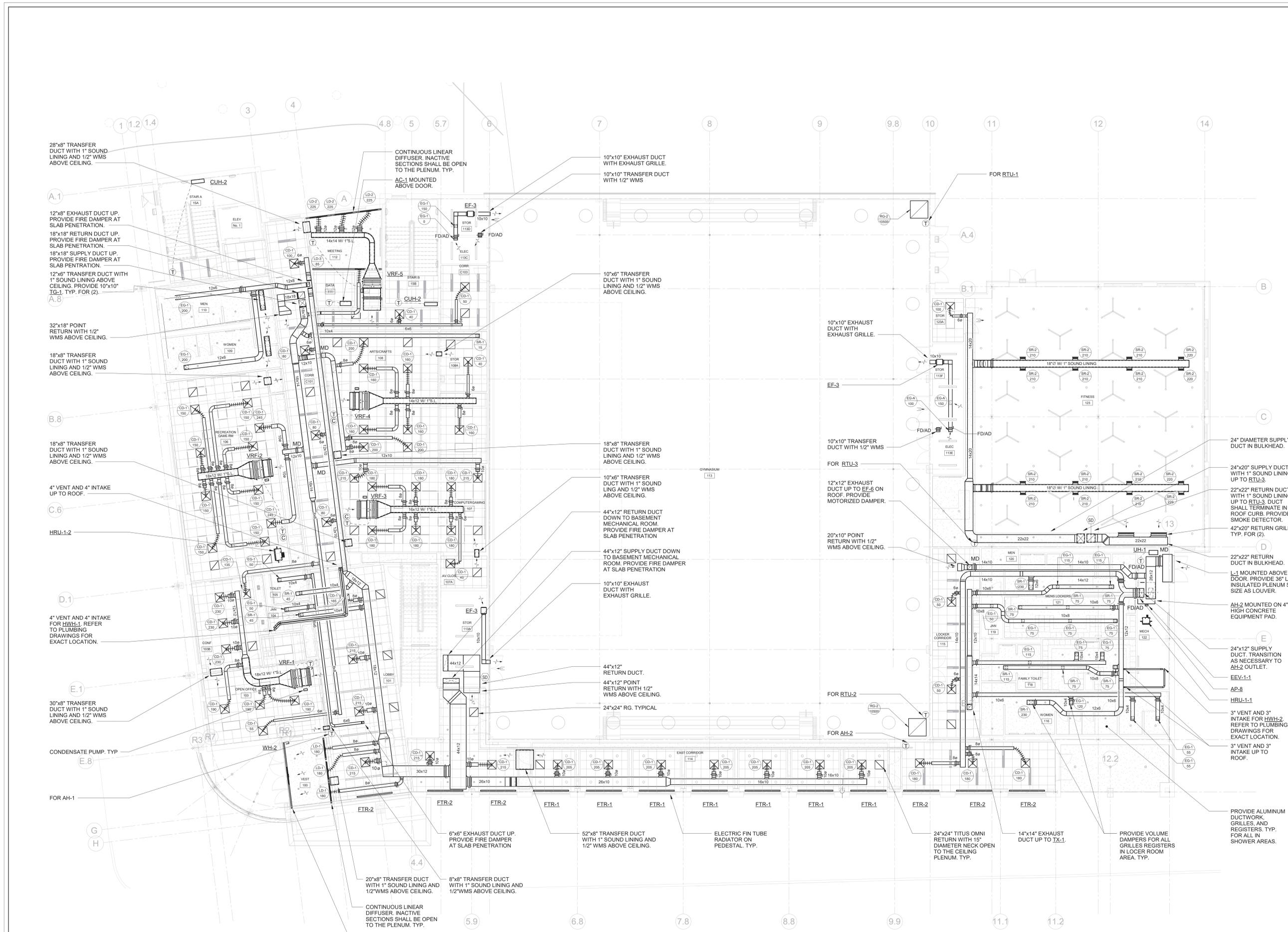
**MECHANICAL SECOND FLOOR PLAN**

Job No.	NKGD0207.00	Date	02/16/2024
Scale	AS NOTED	Drawn / Checked	HM / RG
Sheet Number	<b>M-203</b>		

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No.	Date	Issue

**MECHANICAL  
FIRST FLOOR  
PLAN**

Job No.	NKGD0207.00	Date	02/16/2024
Scale	AS NOTED	Drawn / Checked	HM / RG
Sheet Number	M-202		



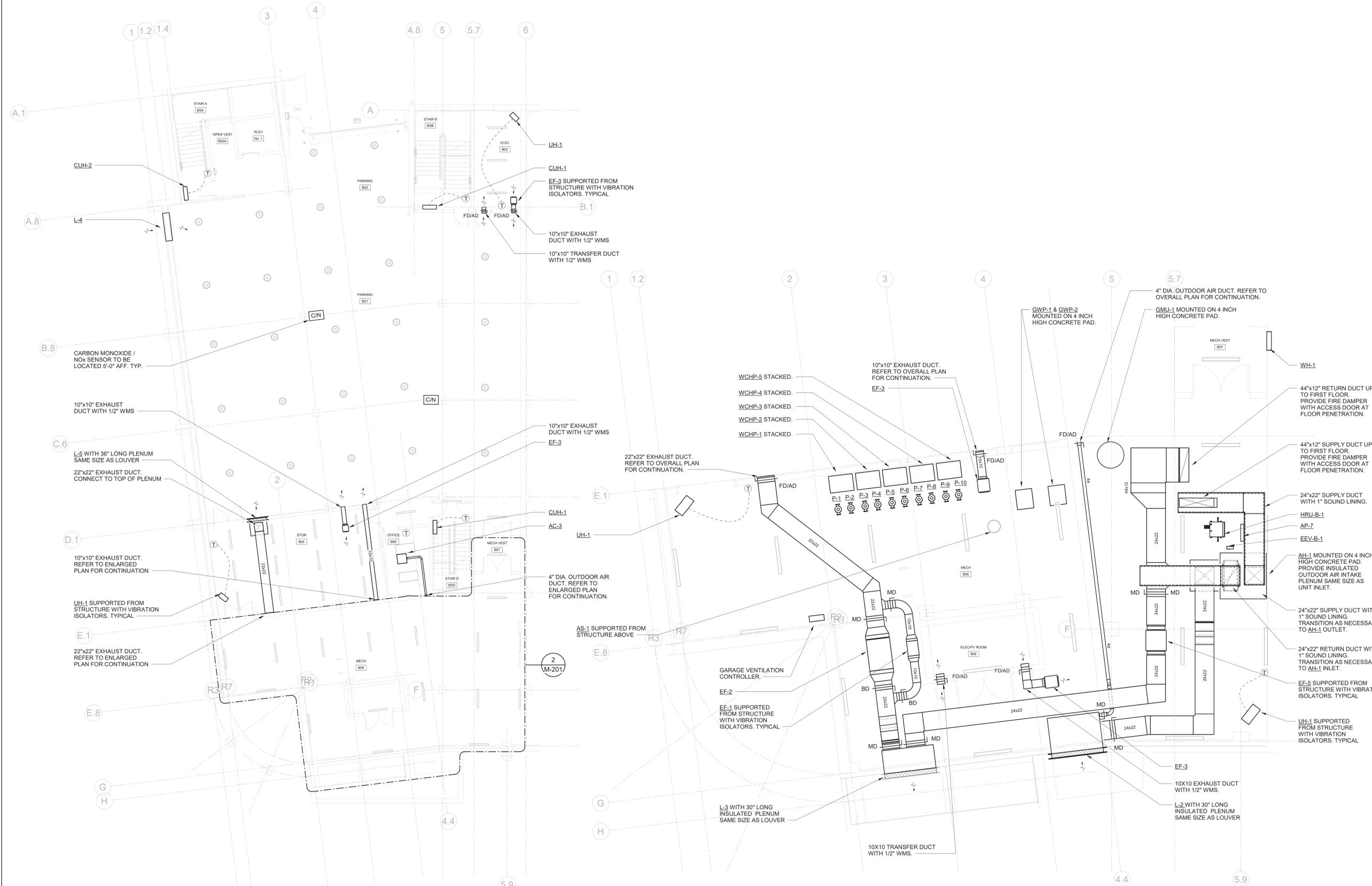
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**CONSTRUCTION DOCUMENTS**



**1 MECHANICAL PARKING FLOOR PLAN**  
SCALE: 1/8" = 1'-0"  
NOTES:  
1. ALL WALL MOUNTED GRILLES SHALL BE MOUNTED ONE CMU BLOCK ABOVE DOOR. CONTRACTOR SHALL COORDINATE LOCATION WITH FINAL CMU BLOCK LAYOUT.

**2 MECH B06 ENLARGED PLAN**  
SCALE: 1/4" = 1'-0"  
NOTES:  
1. ROUTE ALL DUCTWORK AND PIPING AS HIGH AS POSSIBLE

Key Plan

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**MECHANICAL  
PARKING FLOOR  
PLAN**

Job No.	NKGD0207.00	Date	02/16/2024
Scale	AS NOTED	Drawn / Checked	HM / RG
Sheet Number	<b>M-201</b>		

**SYMBOLS AND ABBREVIATIONS**

SYMBOL	ABBREVIATION	DESCRIPTION
-	AC-	AIR CONDITIONING UNIT
-	AD	ACCESS DOOR
-	AFF	ABOVE FINISHED FLOOR
-	AHC	ABOVE HUNG CEILING
-	AP	ACCESS PANEL
-	BHP	BRAKE HORSEPOWER
-	BTU	BRITISH THERMAL UNIT
-	CFM	CUBIC FEET PER MINUTE
-	COD	CABLE OPERATED DAMPER
-	DB	DRY BULB TEMPERATURE
-	DIA. OR Ø	DIAMETER
-	DX	DIRECT EXPANSION
-	EA	EXHAUST AIR
-	EAT	ENTERING AIR TEMPERATURE
-	ER	EXHAUST REGISTER
-	ESP	EXTERNAL STATIC PRESSURE
-	EWT	ENTERING WATER TEMPERATURE
-	FCU	FAN COIL UNIT
-	FPM	FEET PER MINUTE
-	FPS	FEET PER SECOND
-	GPM	GALLONS PER MINUTE
-	HP	HORSE POWER
-	LAT	LEAVING AIR TEMPERATURE
-	LF	LINEAR FEET
-	LWT	LEAVING WATER TEMPERATURE
-	MBH	1000 BRITISH THERMAL UNITS PER HOUR
-	MER	MECHANICAL EQUIPMENT ROOM
-	NIC	NOT IN CONTRACT
-	OAI	OUTSIDE AIR INTAKE
-	PSI	POUNDS PER SQUARE INCH
-	RA	RETURN AIR
-	RF-	RETURN FAN
-	RPM	REVOLUTIONS PER MINUTE
-	SA	SUPPLY AIR
-	SP	STATIC PRESSURE
-	TD	TRANSFER DUCT
-	TF-	TRANSFER FAN
-	TSP	TOTAL STATIC PRESSURE
-	TYP.	TYPICAL
-	U.O.N.	UNLESS OTHERWISE NOTED
-	WB	WET BULB TEMPERATURE
-	WG	INCHES OF WATER GAUGE
---	EX.	EXISTING TO REMAIN
----	REL.	REMOVE AND RELOCATE
=====	NEW	NEW WORK
-----	DEM.	EXISTING TO BE REMOVED
Ⓢ	-	THERMOSTAT
Ⓢ	-	CARBON DIOXIDE DETECTOR
Ⓢ	-	DUCT MOUNTED SMOKE DETECTOR
Ⓢ	-	CARBON MONOXIDE / NOX SENSOR
→	-	AIR INTO REGISTER
⊙	-	POINT OF CONNECTION DISCONNECTION
→	SR	SUPPLY REGISTER
⊠	CD	1-WAY
⊠	CD	2-WAY
⊠	CD	2-WAY
⊠	CD	3-WAY
⊠	CD	4-WAY
⊠	RR/RG/ER	RETURN REGISTER/GRILLE/EXHAUST REGISTER
⊠	-	SUPPLY DUCT UP
⊠	-	SUPPLY DUCT DOWN
⊠	-	RETURN DUCT UP
⊠	-	RETURN DUCT DOWN
⊠	-	TRANSITION FROM SQUARE TO ROUND DUCT
⊠	-	TRANSITION
⊠	-	DUCT DROP
⊠	-	DUCT RISE
⊠	-	SQUARE VANED ELBOW
⊠	-	DUCT RISE
⊠	-	DUCT DROP
⊠	-	DUCT TRANSITION
⊠	-	ALUMINUM DUCT
⊠	AL	ACOUSTIC LINING
⊠	FD/AD	FIRE DAMPER W/ ACCESS DOOR
⊠	SD/AD	SMOKE DAMPER W/ ACCESS DOOR

**SYMBOL**

SYMBOL	ABBREVIATION	DESCRIPTION
⊠	SD/AD	SMOKE DAMPER W/ ACCESS DOOR
⊠	CFSD	COMBINATION FIRE/SMOKE DAMPER W/ ACCESS DOOR
⊠	VD	VOLUME DAMPER
⊠	AL	ACOUSTIC LINING
⊠	-	DUCT SIZE - 1ST FIGURE IS SIDE SHOWN
⊠	FC	FLEXIBLE CONNECTION
⊠	-	ALUMINUM DUCT
⊠	-	EXHAUST REGISTER
⊠	-	NEW CEILING DIFFUSER

**COMMISSIONING NOTES**

- REFER TO SPECIFICATION SECTION 230800. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIRING A 3RD PARTY COMMISSIONING AGENT.
- PRIOR TO COMMISSIONING, THE CONTRACTOR SHALL PROVIDE A STATEMENT CONFIRMING THAT ALL SYSTEMS ARE FULLY OPERATIONAL AND ALL PRE-FUNCTIONAL TESTS AND CHECKS LISTED BELOW HAVE BEEN SUCCESSFULLY COMPLETED. SUBMIT A COPY OF ALL CHECK SHEETS FOR ENGINEER REVIEW AND APPROVAL.
- PRE-FUNCTIONAL TESTS AND CHECKS (PREREQUISITES FOR COMMISSIONING):  
 THE CONTRACTOR SHALL PERFORM THE FOLLOWING AT A MINIMUM -  
  - ENSURE THAT ALL SUBMITTALS ARE COMPLETED AND APPROVED BY ENGINEER AND COMMISSIONING AGENT.
  - CERTIFY THAT ALL SYSTEMS TO BE COMMISSIONED, SUBSYSTEMS AND EQUIPMENT HAVE BEEN INSTALLED, CALIBRATED AND STARTED, ACCORDING TO THE CONTRACT DOCUMENTS COMPLETE. ALL MANUFACTURER STARTUP REQUIREMENTS.
  - CERTIFY THAT ALL RELEVANT INSTRUMENTATION AND CONTROL SYSTEMS HAVE BEEN COMPLETED AND CALIBRATED, ARE OPERATING ACCORDING TO CONTRACT DOCUMENTS; AND THAT PRETEST SET POINTS HAVE BEEN RECORDED.
  - CERTIFY THAT TESTING, ADJUSTING AND BALANCING (TAB) PROCEDURES HAVE BEEN COMPLETED AND THE TAB REPORT HAS BEEN SUBMITTED, DISCREPANCIES CORRECTED AND CORRECTIVE WORK APPROVED BY THE ENGINEER.
  - SET SYSTEMS, SUBSYSTEMS AND EQUIPMENT TO OPERATING MODE TO BE TESTED (E.G., NORMAL SHUT DOWN, NORMAL AUTO POSITION, NORMAL MANUAL POSITION, AND ALARM CONDITIONS).
  - VERIFY EACH OF THE SYSTEMS ONCE IT IS OPERATING IN A STEADY STATE CONDITION. REFER TO THE SEQUENCE OF OPERATIONS.
  - INSPECT AND VERIFY THE POSITION OF EACH DEVICE AND INTERLOCK IDENTIFIED ON CHECKLISTS. SIGN OFF EACH ITEM AS ACCEPTABLE OR FAILED. REPEAT THIS TEST FOR EACH OPERATING CYCLE THAT APPLIES TO SYSTEM BEING TESTED.
  - SIMULATE CONDITIONS REQUIRED IN ORDER TO TEST ALL SAFETY CUTOUPS, ALARMS AND INTERLOCKS WITH LIFE SAFETY SYSTEMS DURING EACH MODE OF OPERATION WHEN APPLICABLE.
  - ANNOTATE CHECKLIST OR DATA SHEET WHEN A DEFICIENCY IS OBSERVED.
  - VERIFY EQUIPMENT INTERFACE WITH MONITORING AND CONTROL SYSTEM.
- AFTER PRE-FUNCTIONAL TESTING IS COMPLETE, THE CONTRACTOR SHALL PERFORM FUNCTIONAL TESTING IN THE PRESENCE OF THE COMMISSIONING AGENT FOR THE SYSTEMS LISTED BELOW IN ACCORDANCE WITH THE COMMISSIONING SPECIFICATIONS:
  - ROOFTOP UNITS
  - DOAS UNITS
  - CONDENSING UNITS
  - VRF SYSTEMS
  - PUMPS
  - AIR HANDLERS
  - CONTROL DAMPERS AND CONTROL VALVES
  - AUTOMATIC CONTROLS
- AFTER FUNCTIONAL TESTING, THE COMMISSIONING AGENT (CX) SHALL ISSUE A REPORT OF TEST RESULTS AND DOCUMENT ANY DEFICIENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTION OF ALL DEFICIENCIES. THE CONTRACTOR SHALL SEND A WRITTEN RESPONSE TO THE OWNER/ENGINEER/CX AGENT THAT AN OPEN ISSUE HAS BEEN RECTIFIED. THE DEFICIENCY SHALL NOT BE CONSIDERED RESOLVED UNTIL THE APPROPRIATE RETESTING IS PERFORMED WITH THE CX AGENT.
- PRIOR TO TURNOVER (OWNER ACCEPTANCE), A COMPLETE AND SUCCESSFUL DEMONSTRATION OF ALL SYSTEM OPERATING FUNCTIONS AND ALARMS SHALL BE PERFORMED BY THIS CONTRACTOR IN THE PRESENCE OF THE OWNERS REPRESENTATIVE AND COMMISSIONING AGENT.
- IN ADDITION TO THE ABOVE, THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE FOLLOWING:
  - PARTICIPATE IN MAINTENANCE ORIENTATION AND INSPECTION MEETING.
  - PARTICIPATE IN PROCEDURES MEETING FOR TESTING.
  - EXECUTE INSTALLATION PRE-FUNCTIONAL CHECK SHEETS.
  - SUPPORT FUNCTIONAL TESTING WITH QUALIFIED TECHNICIANS.
  - RESPOND TO CX DEFICIENCIES IN ACCORDANCE WITH OWNER SCHEDULE.
  - PARTICIPATE IN FINAL REVIEW AT ACCEPTANCE MEETING.
  - NOTIFY COMMISSIONING AGENT AT MINIMUM TWO WEEKS IN ADVANCE OF ANY TESTING.

**GENERAL NOTES**

- CONTRACT DRAWINGS, AS FAR AS THEY RELATE TO THE GENERAL ARRANGEMENT AND LOCATION OF EQUIPMENT, SHEET METAL, AND PIPING, SHALL BE UNDERSTOOD AS DIAGRAMMATIC. ANY CHANGES TO EQUIPMENT, SHEET METAL, AND PIPING LOCATIONS NECESSARY TO AVOID INTERFERENCE WITH OTHER TRADES SHALL BE MADE AT NO EXTRA COST, AND MUST BE APPROVED BY THE ENGINEER.
- THE MECHANICAL CONTRACTOR SHALL INSTALL FIRE DAMPERS WITH ACCESS DOORS IN ALL DUCTS PENETRATING FIRE RATED WALLS, WHETHER SPECIFICALLY SHOWN ON THE DRAWINGS OR NOT.
- THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL VOLUME DAMPERS IN DUCTWORK AS REQUIRED TO BALANCE THE AIRFLOW AT ALL REGISTERS AND DIFFUSERS TO THE CFM'S INDICATED ON PLAN, WHETHER SPECIFICALLY SHOWN ON THE DRAWINGS OR NOT.
- PROVIDE ALL PIPE OPENINGS THROUGH PARTITIONS WITH PIPE SLEEVES. FOR PIPES PENETRATING FIRE RATED PARTITIONS, THE SPACE BETWEEN THE PIPE AND THE SLEEVE SHALL BE SEALED WITH FIRE STOPPING MATERIAL. PENETRATIONS FOR PIPING SHALL BE MADE BY CORE DRILLING WHENEVER POSSIBLE.
- ACOUSTICALLY LINE ALL TRANSFER DUCTS. ACOUSTIC LINING SHALL BE 1" THICK. PROVIDE RETURN REGISTERS AT TRANSFER DUCT INLETS & OUTLETS LOCATED BELOW THE CEILING, OR IN AREAS WITH NO CEILING.
- DUCT-MOUNTED SMOKE DETECTORS AND SAMPLING TUBES SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL INSTALL EACH SAMPLING TUBE IN THE DUCTWORK. THE ELECTRICAL CONTRACTOR SHALL INSTALL AND WIRE EACH SMOKE DETECTOR. THE MECHANICAL CONTRACTOR SHALL NOT BRANCH OFF ANY DUCT REQUIRING A DUCT SMOKE DETECTOR BEFORE THE DUCT SMOKE DETECTOR. LOCATE SMOKE DETECTORS IN SERVICEABLE AREAS, NOT IN SHAFTS.
- ALL MOTOR STARTERS AND DISCONNECT SWITCHES FOR HVAC EQUIPMENT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED. DISCONNECT SWITCHES FURNISHED BY THE MECHANICAL CONTRACTOR FOR HVAC EQUIPMENT SHALL BE HEAVY DUTY TYPE.
- THE MECHANICAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO THE BEGINNING OF WORK, AND SHALL COORDINATE ALL WORK WITH OTHER TRADES.
- DUCT DIMENSIONS SHOWN ON MECHANICAL DRAWINGS REFER TO INSIDE CLEAR DUCT DIMENSIONS. WHERE DUCTWORK IS LINED, THE MECHANICAL CONTRACTOR SHALL INCREASE THE SIZE OF DUCT TO COMPENSATE FOR LINING.
- LOCATE THERMOSTATS AND TEMPERATURE SENSORS 4'-0" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. COORDINATE LOCATION WITH FURNITURE, CABINETS, ETC. FURNISH LOCKING TAMPERPROOF COVER FOR ALL NEW THERMOSTATS IN PUBLIC AREAS. THERMOSTATS SHALL BE LOCATED IN AN ACCESSIBLE LOCATION.
- COORDINATE DUCTWORK, GRILLE, DIFFUSER AND REGISTER LOCATIONS WITH LIGHTS, SPRINKLER HEADS, SMOKE DETECTORS, AND THE ARCHITECTURAL PLANS.
- THE MECHANICAL CONTRACTOR SHALL NOTE THAT, IN ADDITION TO THE SPECIFICATIONS AND DETAILS GIVEN IN THESE PLANS FOR PIPE HANGERS AND SUPPORTS, ALL HANGERS AND SUPPORTS SHALL BE DESIGNED AND INSTALLED IN COMPLIANCE WITH APPLICABLE SEISMIC CODES.
- THE MECHANICAL CONTRACTOR SHALL SUBMIT FOR REVIEW A COMPOSITE SHOP DRAWING, FULLY COORDINATED WITH ALL OTHER TRADES, INDICATING DUCTWORK, PLUMBING, SPRINKLER PIPING, STRUCTURAL, LIGHTS, CONDUITS, SMOKE DETECTORS, DIFFUSERS, GRILLES, ETC.
- ALL WORK SHALL COMPLY WITH STATE BUILDING CODE, LOCAL BUILDING CODE, AND ENERGY CODE REQUIREMENTS. IN CASE OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND A GOVERNING CODE OR ORDINANCE, THE MORE STRINGENT STANDARD SHALL APPLY.
- DURING CONSTRUCTION, ALL OPEN OR INCOMPLETE DUCTWORK SHALL BE CAPPED AIRTIGHT WITH HEAVY POLYETHYLENE PLASTIC. AFTER THE INSTALLATION OF DUCTWORK, REGISTERS, GRILLES, AND DIFFUSERS, THE CONTRACTOR SHALL BLANK OFF ALL REGISTERS, GRILLES, AND DIFFUSERS WITH HEAVY POLYETHYLENE PLASTIC AND TAPE AIR TIGHT, IN AREAS THAT ARE UNDER CONSTRUCTION, UNTIL WORK IS COMPLETE IN THOSE AREAS. FLOOR REGISTERS AND GRILLES SHALL ALSO BE COVERED WITH 1/8" MASONITE.
- WHEN GENERAL CONSTRUCTION IS COMPLETE, VACUUM CLEAN ALL DIFFUSERS, REGISTERS, GRILLES, AND HVAC EQUIPMENT IN THE PROJECT AREA OR SERVING THE PROJECT AREA. REMOVE ANY CONSTRUCTION DEBRIS. REPLACE ALL AIR FILTERS WITH NEW.
- THE OWNER'S PERMANENT HVAC EQUIPMENT SHALL NOT BE USED BY ANY CONTRACTOR DURING CONSTRUCTION FOR TEMPORARY HEATING, COOLING, OR VENTILATION. IF TEMPORARY HEATING, COOLING, OR VENTILATION IS REQUIRED AT ANY POINT DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE TEMPORARY HEATING, COOLING, OR VENTILATION EQUIPMENT, DUCTWORK, CONTROLS, AND POWER AT HIS OWN EXPENSE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY VENTILATION AND EXHAUST AIR WHEN WELDING OR SOLDERING OPERATIONS ARE PERFORMED, AS REQUIRED BY OSHA.
- WHERE BUILDING STRUCTURAL COMPONENTS HAVE FIREPROOF MATERIAL, ANY AREA THAT IS DISTURBED OR DAMAGED AS A RESULT OF MECHANICAL WORK, INCLUDING THE INSTALLATION OF HANGERS FOR PIPING, DUCTWORK, OR EQUIPMENT, SHALL BE PATCHED WITH UL AND FM APPROVED FIREPROOFING TO MATCH EXISTING.
- THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL NECESSARY PERMITS AND FOR PAYING RELATED FEES.
- ALL DUCTWORK SHALL BE PRESSURE TESTED AND INSPECTED PRIOR TO CONCEALMENT IN GENERAL CONSTRUCTION OR INSTALLATION OF HUNG CEILINGS.
- ALL DUCTWORK SHALL BE PRESSURE TESTED AND INSPECTED PRIOR TO CONCEALMENT IN GENERAL CONSTRUCTION OR INSTALLATION OF HUNG CEILINGS.
- ALL DUCTWORK SHALL CONNECT TO EQUIPMENT WITH FLEXIBLE CONNECTIONS.
- CONTRACTOR TO VERIFY ALL REFRIGERANT PIPE ROUTING AND SIZING WITH MANUFACTURER FOR AC, AH, AND VRF UNIT SYSTEMS. IF MAXIMUM LENGTH OF PIPE (AS DETERMINED BY MANUFACTURER) DOES NOT ALLOW ROUTING AS SHOWN, CONTRACTOR TO ALERT THE ARCHITECT AND ENGINEER SO THAT AN ALTERNATIVE MAY BE PROPOSED.
- BUILDING LOADS HAVE BEEN CALCULATED USING AN APPROVED COMPUTATIONAL PROGRAM.

**HARRISON RECREATION & COMMUNITY CENTER**

New Construction - Phase 2

Town / Village of Harrison

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1	03/31/2020	50% DESIGN DEVELOPMENT

No.	Date	Issue
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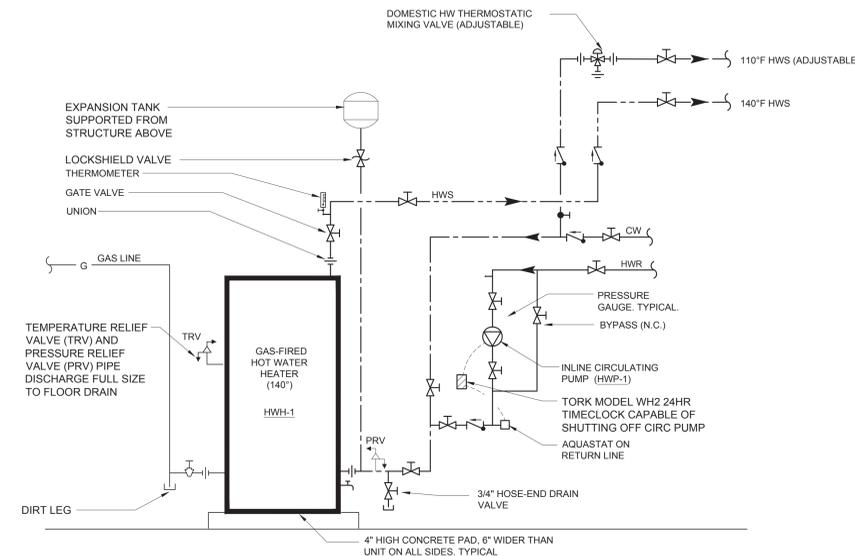
**MECHANICAL SYMBOLS, ABBREVIATIONS, & NOTES**

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Scale	Drawn / Checked
AS NOTED	HM / RG

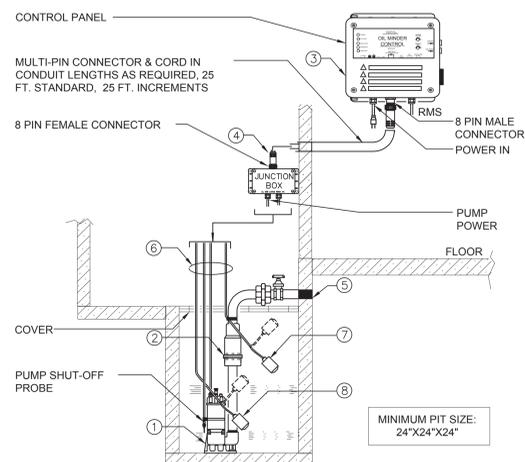
Sheet Number  
**M-001**

PLUMBING PIPE MATERIAL SCHEDULE							
PIPE SYSTEM	SIZE	PIPE			FITTINGS		
		MATERIAL	TYPE / WEIGHT	STANDARD	MATERIALS	TYPE / WEIGHT	STANDARD
DOMESTIC WATER PIPING (CW, HWS, HWR)	ALL	COPPER	HARD / TYPE L	ASTM B88	COPPER	95 / 5 SOLDER LEAD FREE	ASTM B828 ASME B16.22
WATER SERVICE PIPING	3/4" - 4"	COPPER	HARD / TYPE K	ASTM B75 ASTM B88	COPPER	95 / 5 SOLDER LEAD FREE	ASTM B828 ASME B16.22
	ALL	DUCTILE IRON	SCHEDULE 40	AWWA C151/A21.51	DUCTILE IRON	GROOVED END	AWWA C606
SANITARY, WASTE, VENT (ABOVE GROUND)	< 4"	COPPER	DWV HARD / TYPE L	ASTM B88	DWV COPPER	95 / 5 SOLDER LEAD FREE	ASTM B828 ASME B16.22
	ALL	CAST IRON	HUBLESS / HUB AND SPIGOT SCHEDULE 40 / SERVICE	ASTM A74 ASTM A888 CISPI 301 / 310	CAST IRON	LEAD / OAKUM	ASTM B29
SANITARY, WASTE, VENT (BELOW GROUND)	ALL	CAST IRON	HUB AND SPIGOT EXTRA-HEAVY	ASTM A74 ASTM A888 CISPI 301 / 310	CAST IRON	LEAD / OAKUM	ASTM B29
BUILDING SEWER	ALL	CAST IRON	HUB AND SPIGOT EXTRA-HEAVY	ASTM A74 ASTM A888 CISPI 301 / 310	CAST IRON	LEAD / OAKUM	ASTM B29
STORM (ABOVE GROUND)	ALL	CAST IRON	HUBLESS / HUB AND SPIGOT SCHEDULE 40 / SERVICE	ASTM A74 ASTM A888 CISPI 301 / 310	CAST IRON	LEAD / OAKUM	ASTM B29
NATURAL GAS	≤ 4"	STEEL	SCHEDULE 40	ASTM A53 ASTM A106	MALLEABLE IRON	THREADED	ASME B16.3
	> 4"	STEEL	SCHEDULE 40	ASTM A53 ASTM A106	MALLEABLE IRON	WELDED	ASME B16.3

NOTES:  
1. INSTALL DUCTILE IRON PIPING UNDER BUILDING SLAB WITH RESTRAINED JOINTS ACCORDING TO AWWA C600 AND AWWA M41.  
2. INSTALL UNDERGROUND COPPER AND DUCTILE IRON PIPE IN PE ENCASUREMENT ACCORDING TO ASTM A 674 OR AWWA C105/A21.5  
3. DUCTILE IRON WATER SERVICE PIPING SHALL BE CEMENT MORTAR LINED IN ACCORDANCE WITH AWWA C104.  
4. WATER SERVICE PIPE SHALL CONFORM TO NSF 61 AND SHALL HAVE A WORKING PRESSURE RATING OF NOT LESS THAN 160 PSI AT 73.4 °F  
5. ALL MEDICAL GAS PIPE SHALL BE MANUFACTURER CLEANED, PURGED, AND SEALED FOR MEDICAL GAS SERVICE, OR ACCORDING TO CGA G-4.1 FOR OXYGEN SERVICE. INCLUDE STANDARD COLOR MARKING "OXY", "MED", "OXYMED", OR "ACR/MED" IN BLUE FOR TYPE L TUBE.

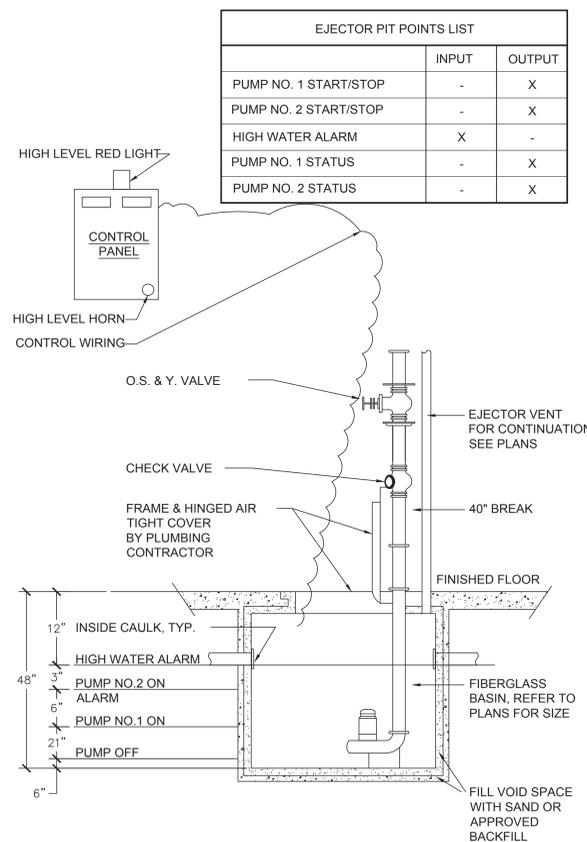


**2 HOT WATER HEATER SCHEMATIC**  
SCALE: NONE

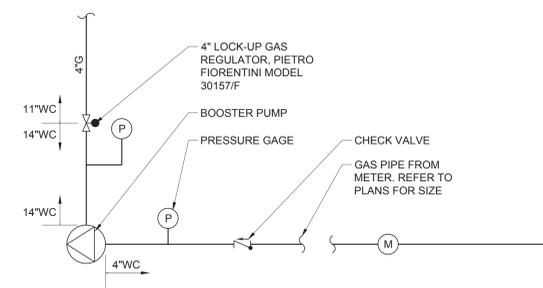


- 1.) STANCOR SUBMERSIBLE EFFLUENT PUMP, 2" DISCHARGE CONNECTION.
- 2.) STANCOR CHECK VALVE.
- 3.) STANCOR OIL MINDER 115V, 10" CONTROL SYSTEM WITH OPTIONAL BUILT IN AUDIBLE AND VISUAL ALARM WHEN PUMP DOES NOT RUN DUE TO OIL IN PIT OR HIGH LIQUID ALARM. PROVIDE SILENCING BUTTON FOR AUDIBLE ALARM BUILT INTO PANEL. PANEL SHALL HAVE ADDITIONAL CONTACT FOR A REMOTE ALARM LOCATION. A JUNCTION BOX WILL BE PROVIDED WITH MULTI-PIN CONNECTOR & CORD IN LENGTHS AS REQUIRED, 25 FT. IS STANDARD, OPTIONAL 25 FT. INCREMENTS. LIGHTS FOR OIL SPILL, POWER, HIGH LIQUID LEVEL, OVERLOAD & PUMP RUN.
- 4.) JUNCTION BOX WILL BE PROVIDED WITH MULTI-PIN CONNECTOR AND CORD IN LENGTHS AS REQUIRED, 25 FT. IS STANDARD, OPTIONAL 25 FT. INCREMENTS AVAILABLE.
- 5.) ALL BURIED PUMP PRESSURE DISCHARGE PIPING SHALL BE PROTECTED WITH TAPECOAT CT CORROSION PROTECTION TAPE.
- 6.) OIL MINDER CABLE, POWER CABLE, PROBE CABLE, HIGH LIQUID ALARM CABLE & PUMP ON FLOAT CABLE.
- 7.) HIGH LIQUID ALARM FLOAT WITH CLAMP DEVICE TO MOUNT TO PUMP DISCHARGE PIPING.
- 8.) PUMP ON FLOAT.
- 9.) PROVIDE (2) 25 FT LENGTH MULTI-PIN CONNECTOR AND CORD FOR CONNECTION BETWEEN PUMP AND CONTROL PANEL.

**4 ELEVATOR SUMP PUMP DETAIL**  
SCALE: NONE



**3 DETAIL OF SUMP PUMP WITHIN SUMP PIT, CONTROLS DIAGRAM AND POINTS LIST**  
SCALE: NONE



**1 GAS BOOSTER PUMP SCHEMATIC**  
SCALE: NONE

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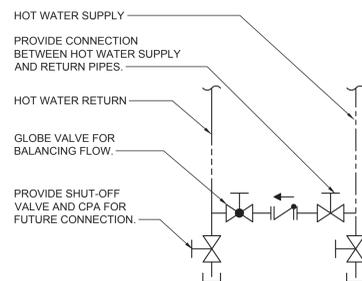
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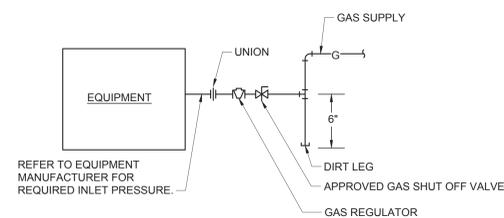
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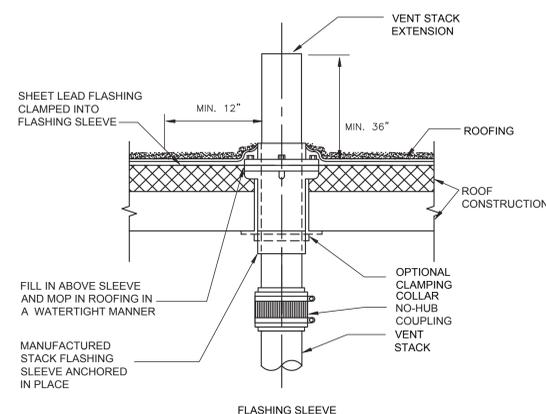
NOTE:  
HOT WATER CIRCULATION CONNECTION SHALL BE LOCATED THROUGHOUT BUILDING AS REQUIRED TO ACHIEVE EFFICIENT HOT WATER SUPPLY

MAXIMUM PIPING LENGTH (FEET)		
NOMINAL PIPE SIZE (INCHES)	PUBLIC LAVATORY FAUCETS	OTHER FIXTURES AND APPLIANCES
1/4	6	50
3/16	4	50
1/8	3	50
1/2	2	43
3/8	1	32
1/4	0.5	21

**8 HOT WATER RECIRC CONNECTION DETAIL**  
SCALE: NONE

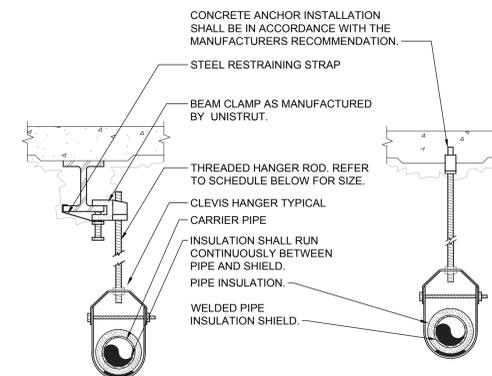


**6 EQUIPMENT GAS CONNECTION SCHEMATIC**  
SCALE: NONE



NOTE: VENT STACK OUTLET TO BE 10 FT. (MIN) FROM ANY WALL OR STRUCTURE AND 3 FT ABOVE STRUCTURE

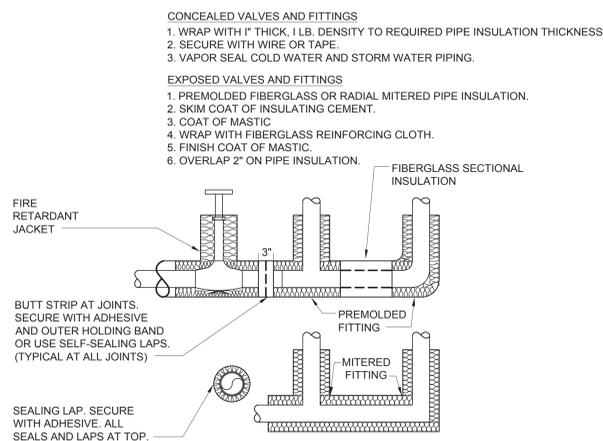
**4 VENT THRU ROOF DETAIL**  
SCALE: NONE



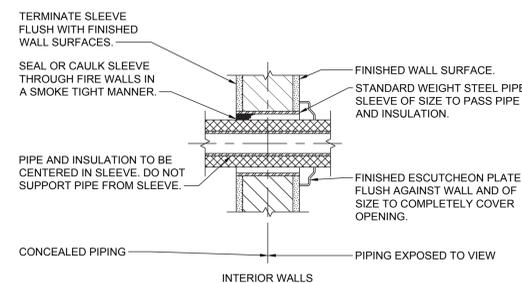
PIPE HANGER SCHEDULE					
PIPE DIA.	3/4"-2"	2 1/2"-3"	4"-5"	6"	8"-12"
HANGER DIA.	3/8"	1/2"	5/8"	3/4"	7/8"

- NOTES:
1. CLEVIS HANGERS WITH WELDED INSULATION SHIELDS SIMILAR TO RAUCH FIG. 100SH ON ALL PIPES LARGER THAN 1".
  2. FOR PIPES 1" OR SMALLER, A BAND HANGER WITH INSULATION SHIELD MAY BE USED SIMILAR TO RAUCH FIG. NO. 1ASH.
  3. FOR NON-INSULATED PIPE, INSULATION SHIELDS MAY BE OMITTED.
  4. ALL PIPE HANGERS SHALL BE GALVANIZED STEEL OR FACTORY PAINTED BLACK WITH ENAMEL.
  5. FOR NON FERROUS PIPING WITHOUT INSULATION, ALL HANGERS SHALL BE COPPER PLATED OR FURNISHED WITH A DI-ELECTRIC BETWEEN PIPE AND HANGERS.
  6. WHERE EXISTING BUILDING STRUCTURAL COMPONENTS HAVE FIREPROOF MATERIAL, ANY AREA THAT IS DISTURBED OR DAMAGED AS A RESULT OF HANGER INSTALLATION SHALL BE PATCHED WITH UL AND FM APPROVED FIREPROOFING TO MATCH EXISTING.

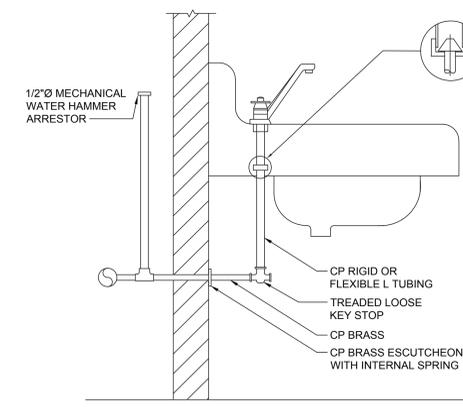
**2 PIPE HANGER DETAIL**  
SCALE: NONE



**7 PIPE INSULATION DETAIL**  
SCALE: NONE

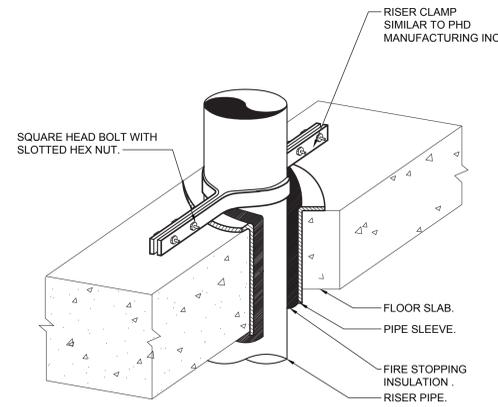


**5 PIPE WALL SLEEVE DETAIL FOR INTERIOR WALLS**  
SCALE: NONE



NOTE:  
1. SIMILAR SUPPLY ARRANGEMENT TO OTHER FIXTURES.

**3 SUPPLY LAVATORY SUPPLY CONNECTION**  
SCALE: NONE



**1 VERTICAL PIPE SUPPORT DETAIL**  
SCALE: NONE

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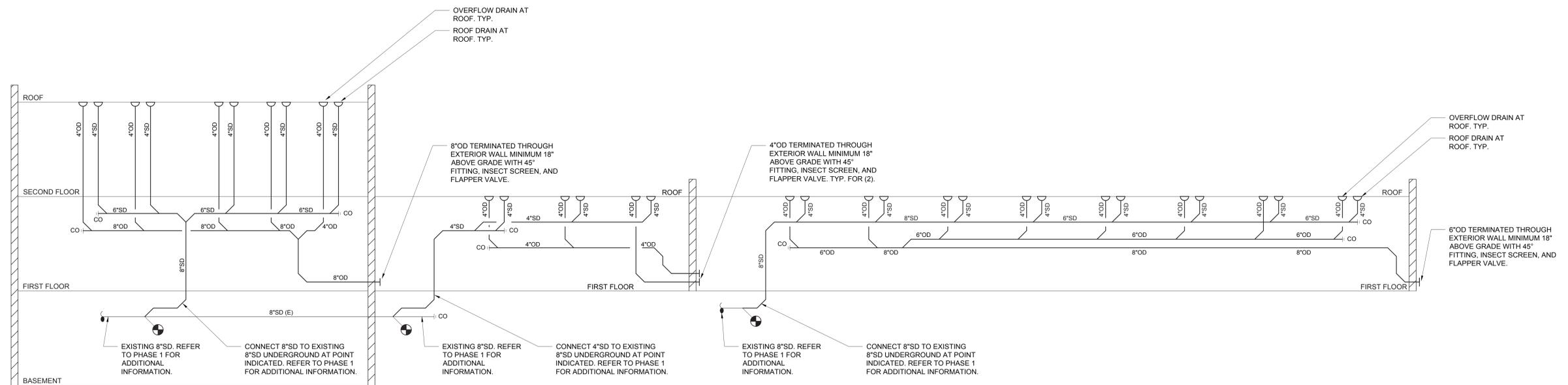
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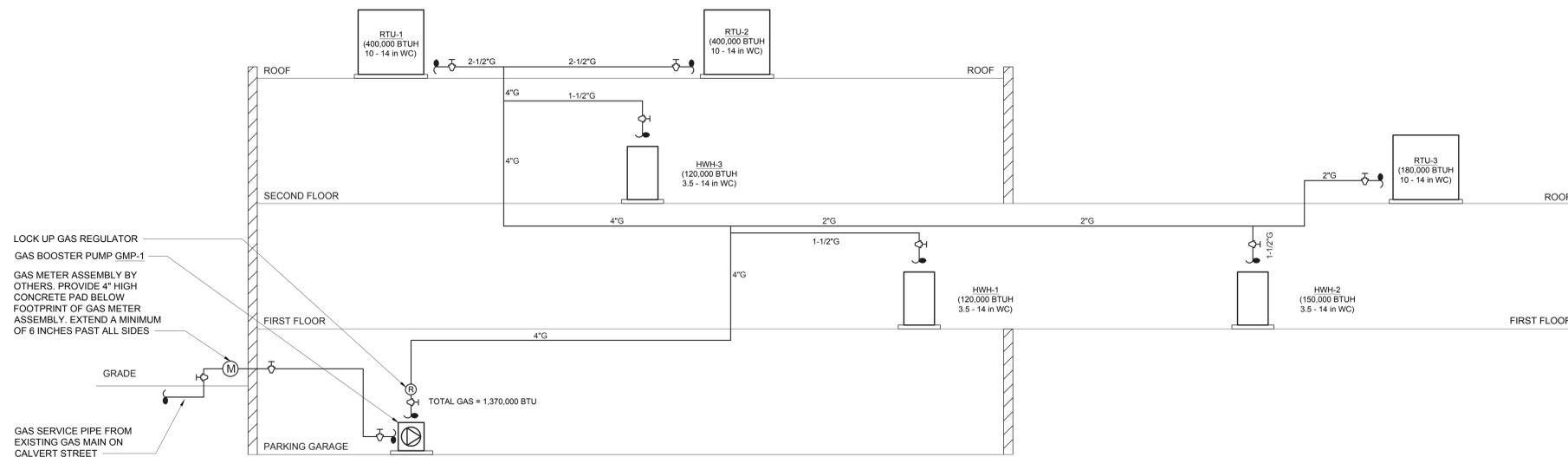
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2 PLUMBING STORM RISER DIAGRAM  
SCALE: NTS



1 PLUMBING GAS RISER DIAGRAM  
SCALE: NTS

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PLUMBING RISER  
DIAGRAM 2 OF 2

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RECREATION &  
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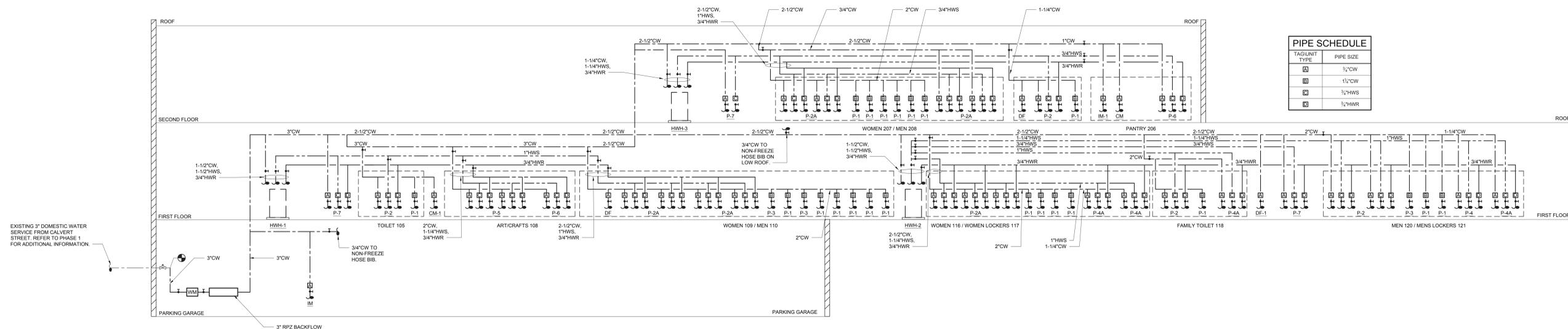
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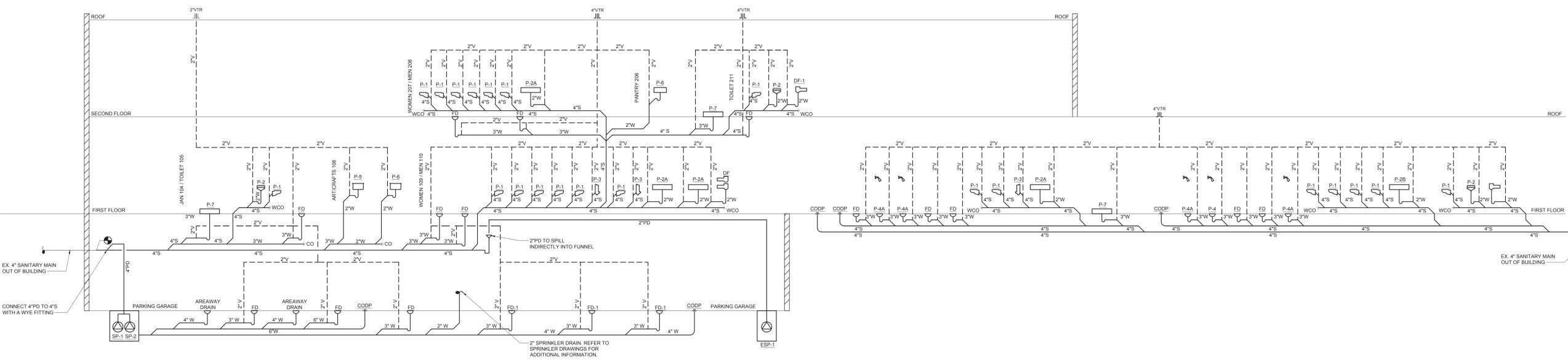
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CONSTRUCTION DOCUMENTS



**2 DOMESTIC WATER RISER DIAGRAM**  
SCALE: NTS



**1 SANITARY RISER DIAGRAM**  
SCALE: NTS

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2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

**PLUMBING RISER DIAGRAMS 1 OF 2**

Job No.	Date
NKGD0207.00	03/01/2024

Scale	Drawn / Checked
AS NOTED	HM / RG

Sheet Number

**P-501**

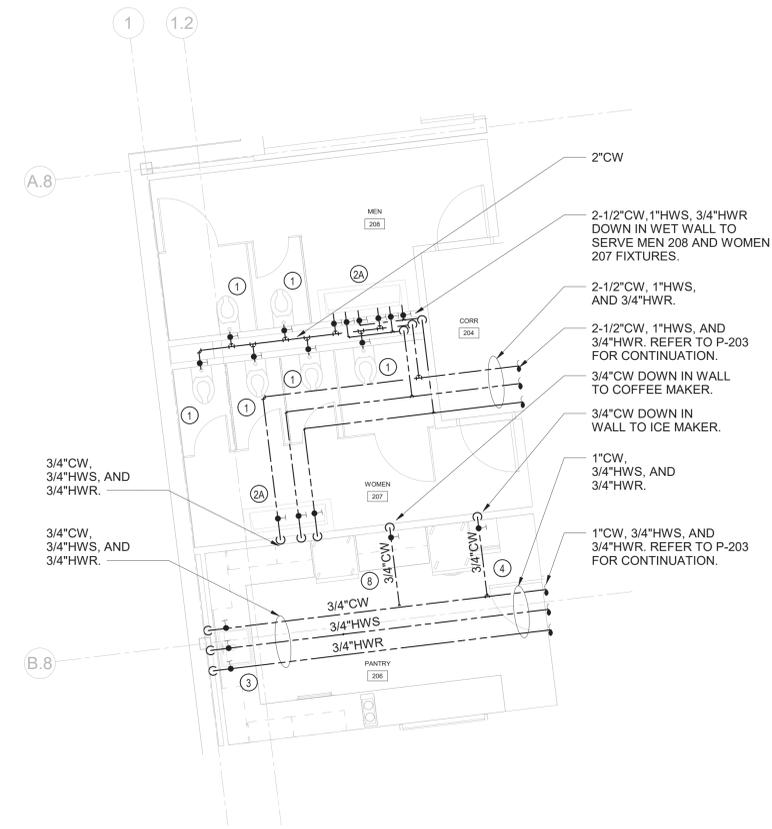
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**CONSTRUCTION DOCUMENTS**



**PLUMBING PANTRY 206, WOMEN 207, & MEN 208  
- DOMESTIC WATER PLAN**



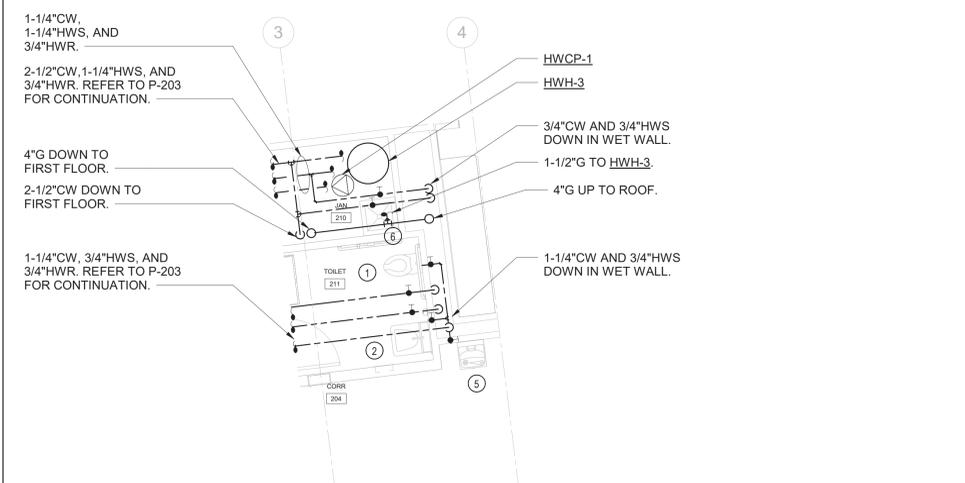
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**PLUMBING PANTRY 206, WOMEN 207, & MEN 208  
- SANITARY PLAN**



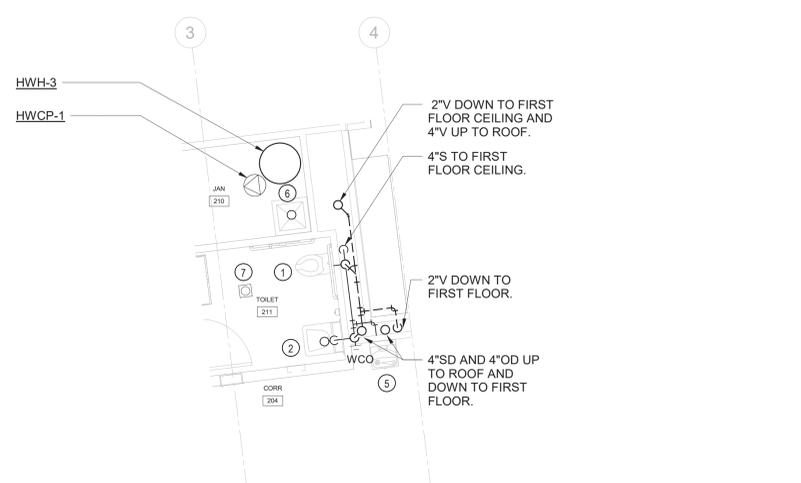
SCALE: 1/4" = 1'-0"



**PLUMBING - JAN 210 & TOILET 211 - DOMESTIC WATER PLAN**



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



**PLUMBING JAN 210 & TOILET 211 - SANITARY PLAN**



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

**NEW WORK KEY NOTES**

- ① WATER CLOSET P-1. PROVIDE 1-1/4" CW, 4"S, AND 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
- ② 1-STATION LAVATORY P-2. PROVIDE 3/4" CW, 3/4" HW, 3/4" HWR, 2"W, AND 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
- ②A 2-STATION LAVATORY P-2A. PROVIDE (2) 3/4" CW, (2) 3/4" HW, (2) 3/4" HWR, (1) 2"W, AND (1) 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
- ③ PANTRY SINK P-5. PROVIDE 3/4" CW, 3/4" HW, 3/4" HWR, 2"W, AND 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
- ④ ICE MAKER IM-1. PROVIDE 3/4" CW. PROVIDE SHUT-OFF VALVES. TYPICAL.
- ⑤ DRINKING FOUNTAIN DF-1. PROVIDE 3/4" CW, 2"W, AND 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
- ⑥ JANITOR SINK P-7. PROVIDE 3/4" CW, 3/4" HW, 3/4" HWR, 3"W, AND 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
- ⑦ FLOOR DRAIN ED. PROVIDE 3"W AND 2"V. TYPICAL.
- ⑧ COFFEE MAKER CM. PROVIDE 3/4" CW. PROVIDE SHUT-OFF VALVE AND BACKFLOW PREVENTER.

**Key Plan**

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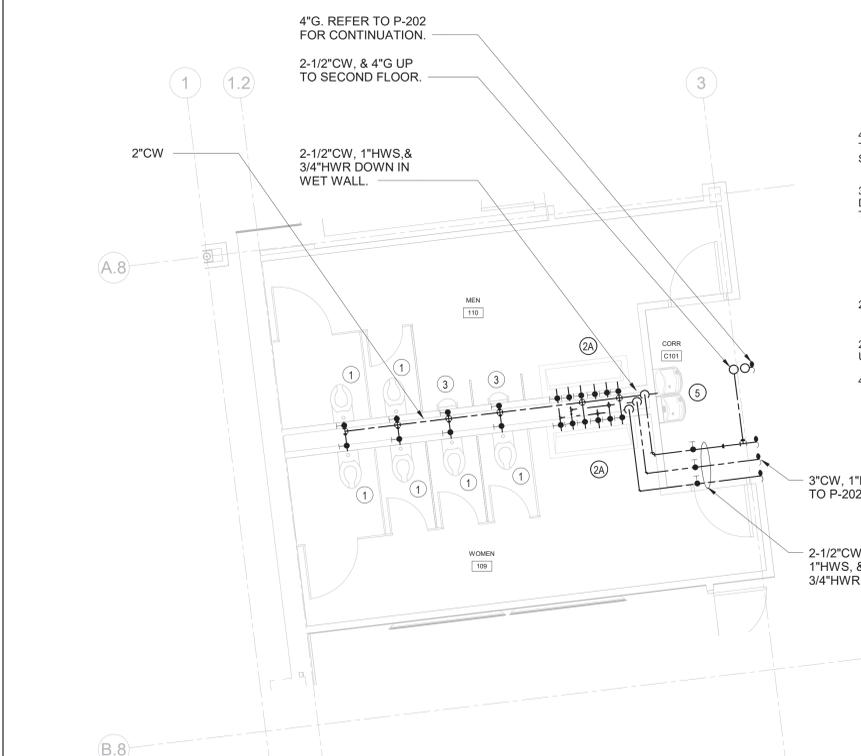
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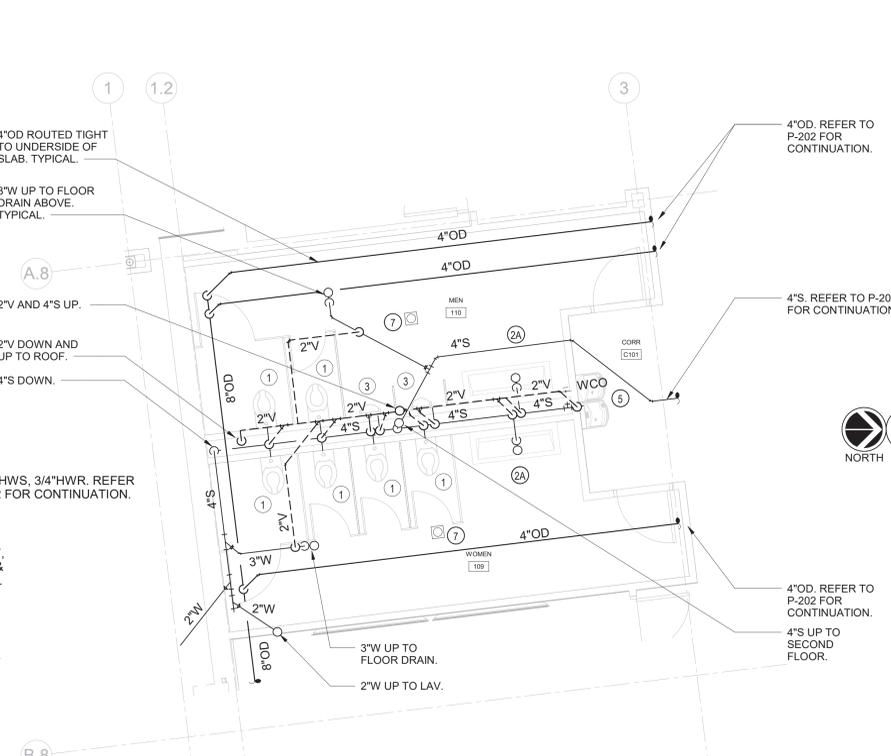
No.	Date	Issue
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2	09/01/2023	DESIGN DEVELOPMENT
1	03/12/2020	50% DESIGN DEVELOPMENT

**PLUMBING  
SECOND FLOOR  
ENLARGED PLANS**

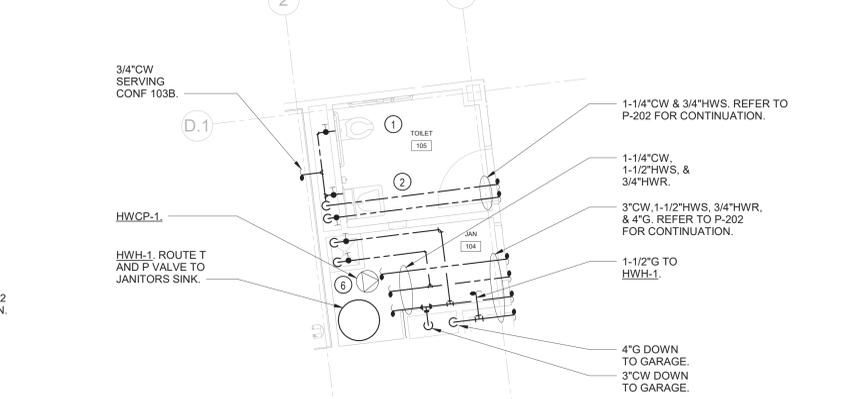
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Scale AS NOTED Drawn / Checked HM / RG  
Sheet Number  
**P-402**



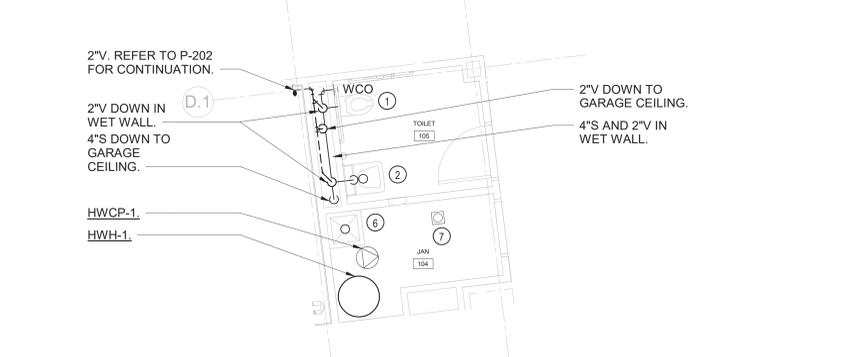
**6 PLUMBING MEN 110 & WOMEN 109 - DOMESTIC WATER PLAN**  
 SCALE: 1/4" = 1'-0"  
 NORTH



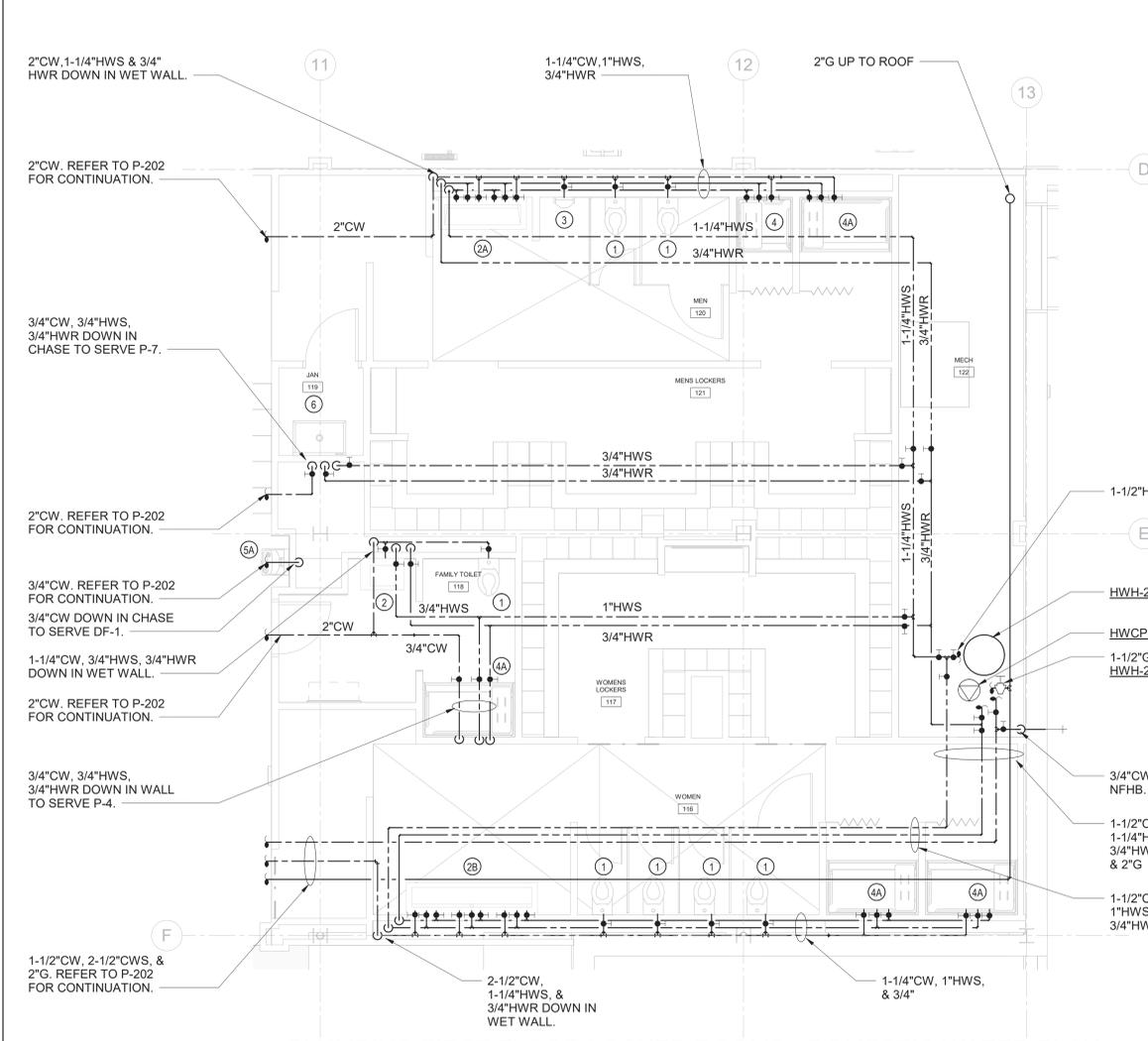
**4 PLUMBING MEN 110 & WOMEN 109 - SANITARY PLAN**  
 SCALE: 1/4" = 1'-0"  
 NORTH



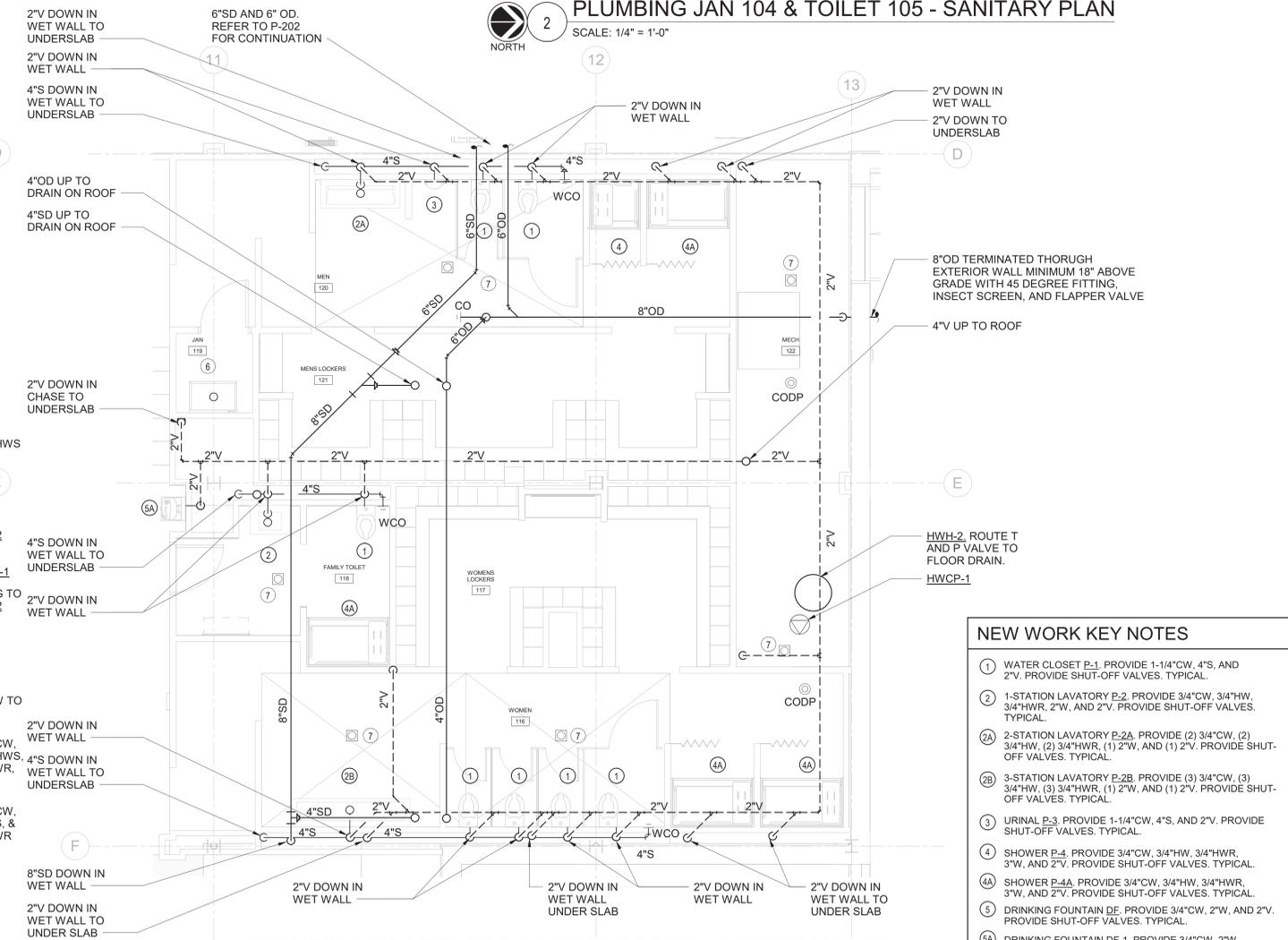
**3 PLUMBING JAN 104 & TOILET 105 - DOMESTIC WATER PLAN**  
 SCALE: 1/4" = 1'-0"  
 NORTH



**2 PLUMBING JAN 104 & TOILET 105 - SANITARY PLAN**  
 SCALE: 1/4" = 1'-0"  
 NORTH



**5 PLUMBING FIRST FLOOR LOCKER ROOMS - DOMESTIC WATER PLAN**  
 SCALE: 1/4" = 1'-0"  
 NORTH



**1 PLUMBING FIRST FLOOR LOCKER ROOMS - SANITARY PLAN**  
 SCALE: 1/4" = 1'-0"  
 NORTH

**NEW WORK KEY NOTES**

- 1 WATER CLOSET P-1. PROVIDE 1-1/4" CW, 4"S, AND 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
- 2 1-STATION LAVATORY P-2. PROVIDE 3/4" CW, 3/4" HW, 3/4" HWR, 2"V, AND 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
- 2A 2-STATION LAVATORY P-2A. PROVIDE (2) 3/4" CW, (2) 3/4" HW, (2) 3/4" HWR, (1) 2"V, AND (1) 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
- 2B 3-STATION LAVATORY P-2B. PROVIDE (3) 3/4" CW, (3) 3/4" HW, (3) 3/4" HWR, (1) 2"V, AND (1) 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
- 3 URINAL P-3. PROVIDE 1-1/4" CW, 4"S, AND 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
- 4 SHOWER P-4. PROVIDE 3/4" CW, 3/4" HW, 3/4" HWR, 3"V, AND 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
- 4A SHOWER P-4A. PROVIDE 3/4" CW, 3/4" HW, 3/4" HWR, 3"V, AND 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
- 5 DRINKING FOUNTAIN DE. PROVIDE 3/4" CW, 2"V, AND 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
- 5A DRINKING FOUNTAIN DE-1. PROVIDE 3/4" CW, 2"V, AND 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
- 6 JANITOR SINK P-7. PROVIDE 3/4" CW, 3/4" HW, 3/4" HWR, 3"V, AND 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
- 7 FLOOR DRAIN ED. PROVIDE 3"V AND 2"V. TYPICAL.

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1	03/13/2020	50% DESIGN DEVELOPMENT

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 Sheet Number **P-401**

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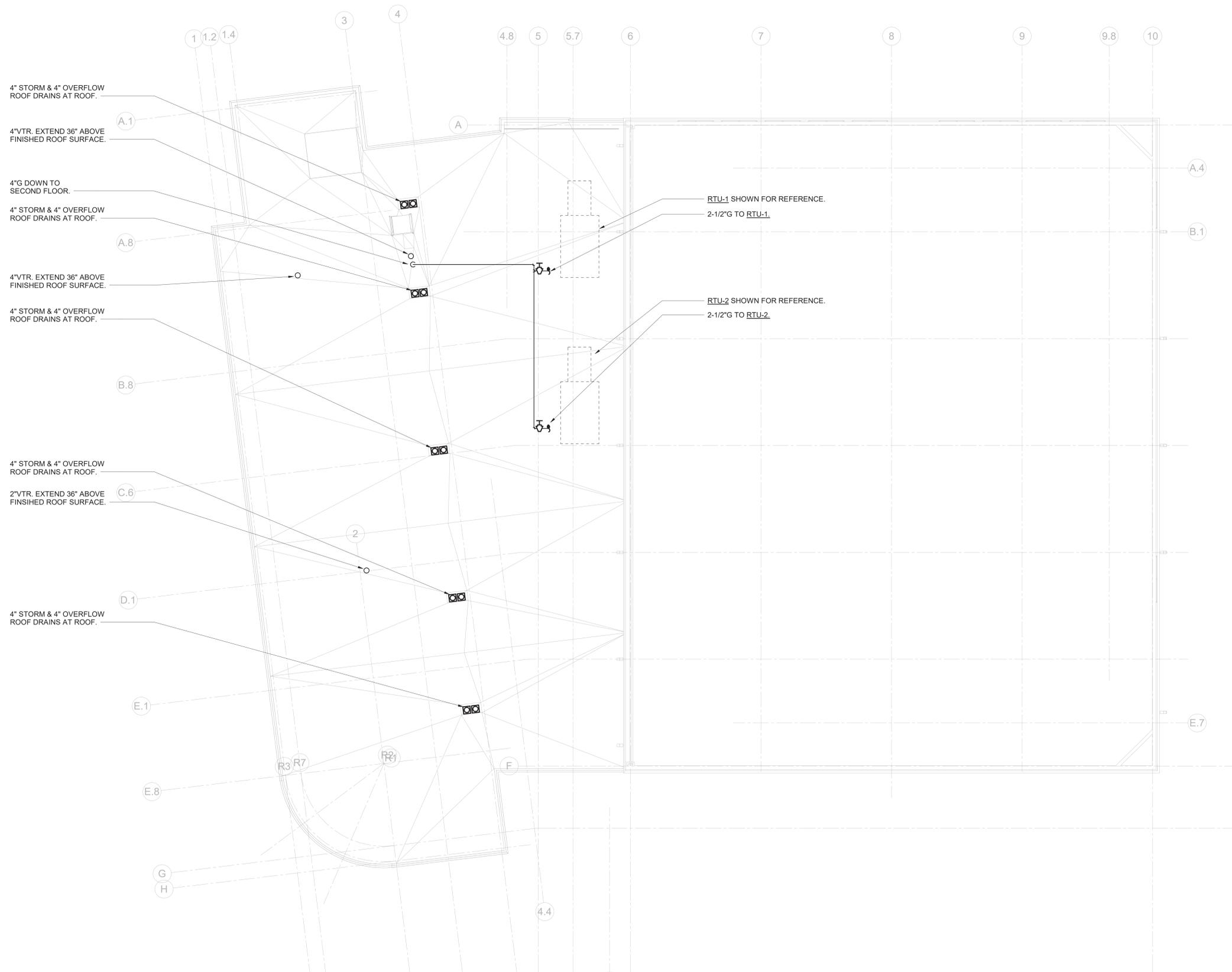
Sheet Title

**PLUMBING ROOF  
PLAN**

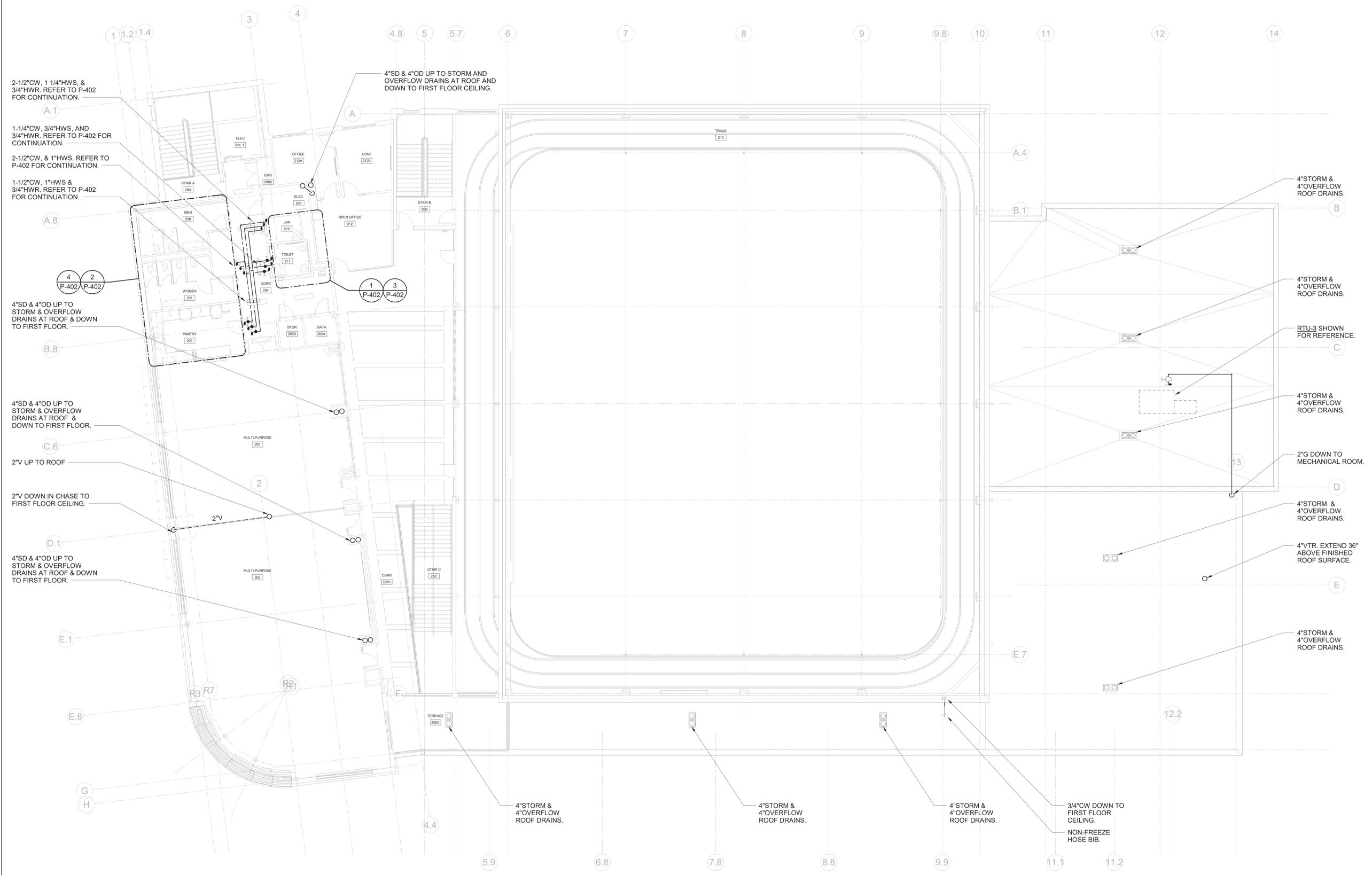
Job No. NKGD0207.00 Date 02/16/2024  
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Sheet Number

**P-204**



**1 PLUMBING ROOF PLAN**  
SCALE: 1/8" = 1'-0"  
NORTH



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Key Plan

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2	09/01/2023	DESIGN DEVELOPMENT
1	03/13/2020	50% DESIGN DEVELOPMENT

Sheet Title	
<b>PLUMBING SECOND FLOOR PLAN</b>	
Job No. NKGD0207.00	Date 01/24/2024
Scale AS NOTED	Drawn / Checked HM / RG
Sheet Number <b>P-203</b>	

**1 PLUMBING SECOND FLOOR PLAN**  
 SCALE: 1/8" = 1'-0"  
 NORTH

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**Sheet Title**

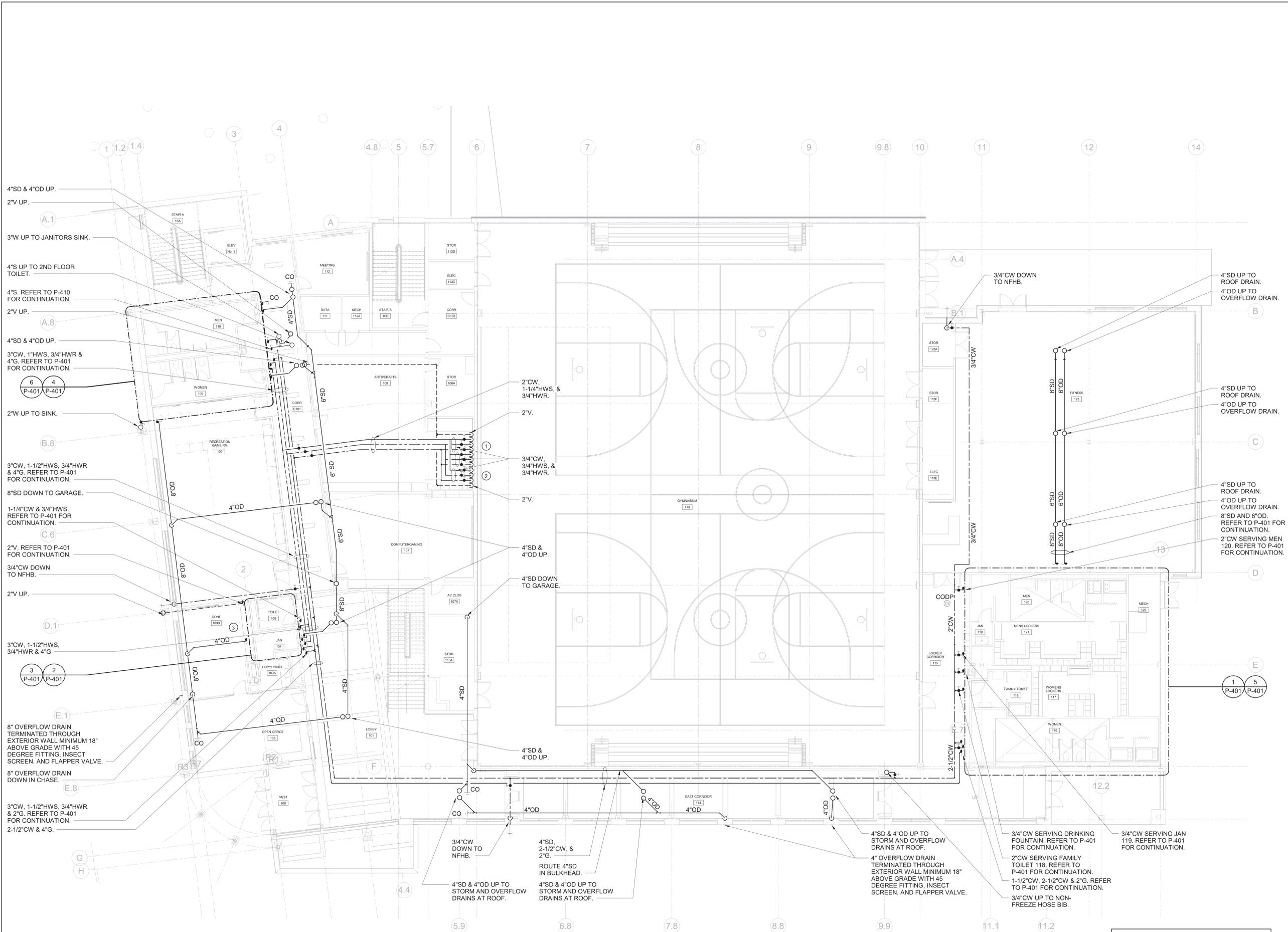
**PLUMBING FIRST FLOOR PLAN**

Job No.	Date
NKGD0207.00	02/16/2024

Scale	Drawn / Checked
AS NOTED	HM / RG

Sheet Number

**P-202**



**1 PLUMBING FIRST FLOOR PLAN**  
SCALE: 1/8" = 1'-0"

**NEW WORK KEY NOTES**

- ① SINK P-5, PROVIDE (2) 3/4" CW, (2) 3/4" HW, (1) 2" W, AND (1) 2" V. PROVIDE SHUT-OFF VALVES. TYPICAL
- ② SINK P-6, PROVIDE 3/4" CW, 3/4" HW, 2" W, AND 2" V. PROVIDE SHUT-OFF VALVES. TYPICAL
- ③ COFFEE MAKER CM-1, PROVIDE 3/4" CW, PROVIDE SHUT-OFF VALVE AND BACKFLOW PREVENTER.

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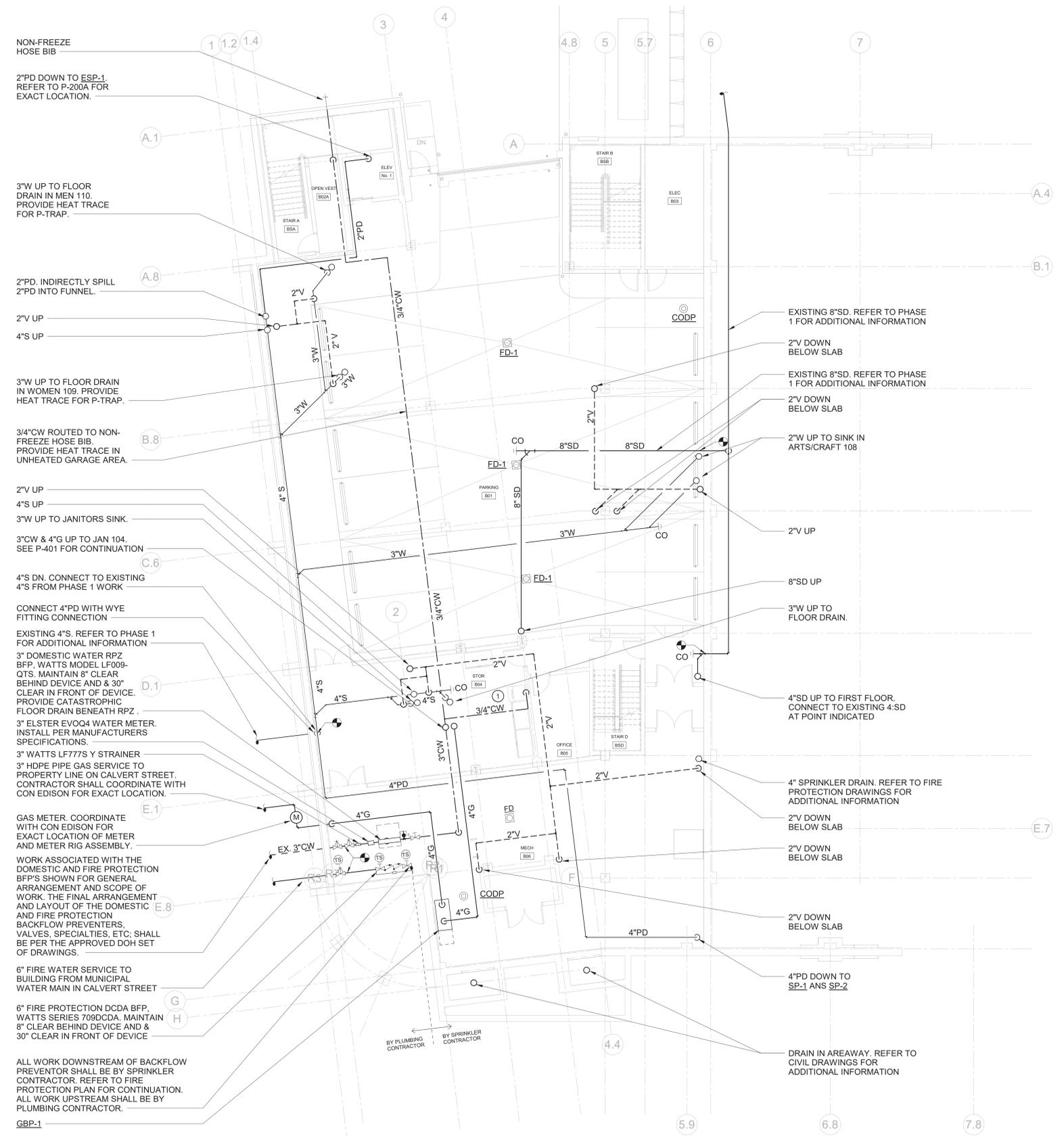
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1	03/13/2020	50% DESIGN DEVELOPMENT

**PLUMBING PARKING FLOOR PLAN**

Job No.	Date
Scale	Drawn / Checked
Sheet Number	Issue

**P-201**



NON-FREEZE HOSE BIB

2"PD DOWN TO ESP-1. REFER TO P-200A FOR EXACT LOCATION.

3"W UP TO FLOOR DRAIN IN MEN 110. PROVIDE HEAT TRACE FOR P-TRAP.

2"PD. INDIRECTLY SPILL. 2"PD INTO FUNNEL.

2"V UP

4"S UP

3"W UP TO FLOOR DRAIN IN WOMEN 109. PROVIDE HEAT TRACE FOR P-TRAP.

3/4"CW ROUTED TO NON-FREEZE HOSE BIB. PROVIDE HEAT TRACE IN UNHEATED GARAGE AREA.

2"V UP

4"S UP

3"W UP TO JANITORS SINK.

3"CW & 4"G UP TO JAN 104. SEE P-401 FOR CONTINUATION.

4"S DN. CONNECT TO EXISTING 4"S FROM PHASE 1 WORK

CONNECT 4"PD WITH WYE FITTING CONNECTION

EXISTING 4"S. REFER TO PHASE 1 FOR ADDITIONAL INFORMATION

3" DOMESTIC WATER RPZ BFP. WATTS MODEL LF009-QTS. MAINTAIN 8" CLEAR BEHIND DEVICE AND 30" CLEAR IN FRONT OF DEVICE. PROVIDE CATASTROPHIC FLOOR DRAIN BENEATH RPZ.

3" ELSTER EVOQ4 WATER METER. INSTALL PER MANUFACTURERS SPECIFICATIONS.

3" WATTS LF777S Y STRAINER

3" HDPE PIPE GAS SERVICE TO PROPERTY LINE ON CALVERT STREET. CONTRACTOR SHALL COORDINATE WITH CON EDISON FOR EXACT LOCATION.

GAS METER. COORDINATE WITH CON EDISON FOR EXACT LOCATION OF METER AND METER RIG ASSEMBLY.

WORK ASSOCIATED WITH THE DOMESTIC AND FIRE PROTECTION BFP'S SHOWN FOR GENERAL ARRANGEMENT AND SCOPE OF WORK. THE FINAL ARRANGEMENT AND LAYOUT OF THE DOMESTIC AND FIRE PROTECTION BACKFLOW PREVENTERS, VALVES, SPECIALTIES, ETC. SHALL BE PER THE APPROVED DOH SET OF DRAWINGS.

6" FIRE WATER SERVICE TO BUILDING FROM MUNICIPAL WATER MAIN IN CALVERT STREET

6" FIRE PROTECTION DODA BFP. WATTS SERIES 709D-CDA. MAINTAIN 8" CLEAR BEHIND DEVICE AND 30" CLEAR IN FRONT OF DEVICE

ALL WORK DOWNSTREAM OF BACKFLOW PREVENTOR SHALL BE BY SPRINKLER CONTRACTOR. REFER TO FIRE PROTECTION PLAN FOR CONTINUATION. ALL WORK UPSTREAM SHALL BE BY PLUMBING CONTRACTOR.

GBP-1

**1 PLUMBING PARKING FLOOR PLAN**  
SCALE: 1/8" = 1'-0"

**NEW WORK KEY NOTES**

1 ICE MACHINE IM. PROVIDE 3/4"CW. PROVIDE SHUT-OFF VALVE.



PLUMBING FIXTURE SCHEDULE								
TAG	SYMBOLS		FIXTURES	PLUMBING CONNECTIONS				DESCRIPTION
	PLAN	ELEVATION		WASTE	VENT	COLD WATER	HOT WATER	
P-1			WATER CLOSET WALL-MOUNT	4"	2"	1 1/2"	-	MANUFACTURER: AMERICAN STANDARD MODEL: AFWALL ELONGATED TOILET LESS EVERCLEAN 1.6 GPF FLUSH VALVE, WALL MOUNTED TOILET, WITH ELONGATED BOWL, VITREOUS CHINA, WITH EVERCLEAN 1 1/2" INLET SPUD, 2 1/2" TRAPWAY, 10 1/2" WATER SURFACE AREA FLUSH VALVE: AMERICAN STANDARD SELECTRONIC #6065.161 002 BATTERY POWER (TOP SPUD) RECESSED WALL MOUNT TYPE PROVIDE WALL CARRIER
P-2			LAVATORY WALL HUNG	2"	2"	3/4"	3/4"	MANUFACTURER: SLOAN SOLID SURFACE 1-STATION WALL MOUNTED SINK MODEL: ELGR-81000 SLOANSTONE SOLID SURFACE, DOUBLE HOLE FAUCET: MODEL: REFER TO ARCHITECTURAL PLANS
P-2A			LAVATORY WALL HUNG	2"	2"	3/4"	3/4"	MANUFACTURER: SLOAN SOLID SURFACE 2-STATION WALL MOUNTED SINK MODEL: ELGR-82000 SLOANSTONE SOLID SURFACE, DOUBLE HOLE FAUCET: MODEL: REFER TO ARCHITECTURAL PLANS
P-2B			LAVATORY WALL HUNG	2"	2"	3/4"	3/4"	MANUFACTURER: SLOAN MODEL: ELGR-83000 SLOANSTONE SOLID SURFACE, TRIPLE HOLE FAUCET: MODEL: REFER TO ARCHITECTURAL PLANS
P-3			URINAL	3"	2"	3/4"	-	MANUFACTURER: AMERICAN STANDARD MODEL: 6002.001 TOP SPUD HIGH EFFICIENCY URINAL 0.125 GPF, VITREOUS CHINA, 3/4" INLET SPUD, OUTLET CONNECTION 2" THREADED INSIDE FLUSH VALVE: MODEL: 6065013.002, 0.125 GPF EXPOSED TOP SPUD RECESSED WALL MOUNT TYPE S ELECTRONIC URINAL FLUSH VALVE, 20 PSI (FLOWING), 80 PSI (STATIC) OPERATING PRESSURE, 10 GPM FLOW REQUIREMENT PROVIDE WALL CARRIER
P-4			SHOWER (ADA)	3"	2"	3/4"	3/4"	MANUFACTURER: BEST BATH SYSTEMS MODEL: 4LSS24038A75"FB V3" 38.25"x40.5"x80.5" SHOWER, FIBERGLASS NOTES: INSTALL IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND ADA GUIDELINES. PROVIDE MOEN HANDHELD KIT KACXMOAN1001 OR APPROVED EQUIVALENT.
P-4A			SHOWER (ADA)	3"	2"	3/4"	3/4"	MANUFACTURER: BEST BATH SYSTEMS MODEL: 4LSS2633A75"FB V3" 38.5"x63"x80.5" SHOWER, FIBERGLASS NOTES: INSTALL IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND ADA GUIDELINES. PROVIDE MOEN HANDHELD KIT KACXMOAN1001 OR APPROVED EQUIVALENT.
P-5			ART ROOM SINK	2"	2"	3/4"	3/4"	MANUFACTURER: ELKAY MODEL: EWM4820C 304 STAINLESS STEEL WALL HUNG MULTIPLE STATION HAND WASH SINK. INCLUDE SOLIDS INTERCEPTOR AT DRAIN.
P-6			SINK (ADA)	2"	2"	3/4"	3/4"	MANUFACTURER: ELKAY MODEL: LRAD21955 FAUCET: MAKE: ELKAY MODEL: LK406GN05T4 304 STAINLESS STEEL DROP IN ADA SINK. FAUCET SHALL BE BRASS MATERIAL, & DOUBLE HOLE WITH A FLOW RATE OF 1.5 GPM. INCLUDE SOLIDS INTERCEPTOR AT DRAIN.
P-7			JANITOR'S SINK	3"	2"	3/4"	3/4"	MANUFACTURER: ZURN MODEL: ZS850 FAUCET: ZURN SINK FAUCET ZB43M1-XL ENAMELED CAST IRON CORNER FLOOR SINK WITH 28x28x8 BOWL, 3" DRAIN WITH DRAIN GRID
CM			COFFEE MAKER	-	-	3/4"	-	MANUFACTURER: CURTIS MODEL: ALPHA GS AUTOMATIC COFFEE BREWING SYSTEM SHALL BE ABLE TO BREW 12 GAL/HR ELECTRICAL: 120V/160, 1800 WATTS, 15 AMPS
CM-1			COFFEE MAKER	-	-	3/4"	-	MANUFACTURER: KEURIG MODEL: KEURIG K-2500 PLUMBED COMMERCIAL COFFEE MAKER ELECTRICAL: 120V/160, 1800 WATTS, 12 AMPS
IM			ICE MACHINE	-	-	3/4"	-	MANUFACTURER: AVANTCO ICE MACHINES MODEL: KMC-H-530-A 30" AIR COOLED MODULAR HALF CUBE ICE MACHINE WITH BIN - 500LB. ICE MAKER WITH BIN. SHALL BE ABLE TO PRODUCE 500 LBS/DAY AT 90°F. 350 LB BIN STORAGE CAPACITY. ELECTRICAL: 115V/160, 9.4 AMPS
IM-1			ICE MACHINE	-	-	3/4"	-	MANUFACTURER: AVANTCO ICE MACHINES MODEL: UC-F-120-A-19" AIR COOLED UNDERCOUNTER FULL CUBE ICE MACHINE - 129LB. ICE MAKER WITH BIN. SHALL BE ABLE TO PRODUCE 129 LBS/DAY AT 90°F. 40 LB BIN STORAGE CAPACITY. ELECTRICAL: 115V/160, 5 AMPS
DW			DISHWASHER	1-3/8"	-	-	1/2"	MANUFACTURER: JACKSON WAREWASHING SYSTEMS MODEL: DISHSTAR HT-E UNDERCOUNTER DISHWASHER, HIGH TEMPERATURE SANITIZING, 27 RACKS PER HOUR CAPACITY, 100 SECOND CYCLE, BOTTOM MOUNTED CONTROLS WITH STAINLESS STEEL TOP AND SIDE PANELS, AND BUILT IN BOOSTER HEATER, 180°F FINAL RINSE WATER, ELECTRICAL: 208V/0/1
DF			DRINKING FOUNTAIN	2"	2"	3/4"	-	MANUFACTURER: ELKAY MODEL: L25TBWSLK 62H20 BOTTLE FILLING STATION AND 84-LEVEL ADA COOLER FILTERED REFRIGERATED LIGHT GRAY, 8.0 GPH OF 50°F DRINKING WATER BASED ON 80°F INLET WATER AND 90°F AMBIENT MODEM: V/PHz: 115V/160, FLA=6
DF-1			DRINKING FOUNTAIN	2"	2"	3/4"	-	MANUFACTURER: ELKAY MODEL: L25TBWSLK 62H20 BOTTLE FILLING STATION WITH SINGLE ADA COOLER FILTERED REFRIGERATED LIGHT GRAY, 8.0 GPH OF 50°F DRINKING WATER BASED ON 80°F INLET WATER AND 90°F AMBIENT MODEM: V/PHz: 115V/160, FLA=6
FD			FLOOR DRAIN	3"	2"	-	-	FLOOR DRAIN: MAKE: JR SMITH MODEL: 2110 MEDIUM DUTY DRAIN, 8.5" ROUND TOP, STRAINER. PROVIDE TRAP SEAL.
FD-1			PARKING GARAGE FLOOR DRAIN	3"	2"	-	-	WADE #W-1210-27 WITH CAST IRON BODY, CAST IRON DRAINAGE FLANGE, SEDIMENT BUCKET, FLASHING COLLAR, 12" ROUND HEAVY DUTY CAST IRON GRATE, PROVIDE TG-1 FOR EACH FD.
NFHB			NON FREEZE HOSE-BIB	-	-	-	-	HOSE BIB: MAKE: WOODFORD MODEL: 65 ANTI-SIPHON PROTECTED AUTOMATIC DRAINING FREEZELESS WALL HYDRANT WITH INTEGRAL VACUUM BREAKER
COPD			CLEANOUT DECK PLATE	-	-	-	-	FLOOR CLEANOUT WITH ADJUSTABLE HEAD, ANCHOR FLANGE, CUT-OF SECTIONS AND ROUND SCORIATED NICKEL-BRONZE TOP. WADE #W-6000 OR APPROVED EQUAL. PROVIDE HEAVY DUTY CAST IRON TOP FOR MECHANICAL ROOMS. COPD IN GARAGE ROOM TO BE RATED FOR VEHICULAR TRAFFIC.
WCO			WALL CLEANOUT	-	-	-	-	WALL CLEANOUT WITH CLEANOUT TEE AND CHROME PLATED BRONZE SQUARE ACCESS COVER AND FRAME. WADE #W-8480 OR APPROVED EQUAL.
RD-1			ROOF DRAIN	4"	2"	2	-	JOSAM 21600 4" SERIES COATED CAST IRON ROOF DRAIN, LARGE POLYPROPYLENE LOCKING DOME, WEJOC NON-PUNCTURING CLAMP RING WITH INTEGRAL GRAVEL STOP, LARGE SUMP WITH WIDE ROOF FLANGE AND BOTTOM OUTLET.
OD-1			ROOF DRAIN	4"	2"	2	-	JOSAM 21600 4" 16 SERIES COATED CAST IRON ROOF DRAIN, LARGE POLYPROPYLENE LOCKING DOME, WEJOC NON-PUNCTURING CLAMP RING WITH INTEGRAL GRAVEL STOP, INTERNAL WATER GUARD FOR OVERFLOW, LARGE SUMP WITH WIDE ROOF FLANGE AND BOTTOM OUTLET.

NOTES:  
1.) REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE QUANTITY, LOCATIONS, & MOUNTING HEIGHTS.

### SYMBOLS AND ABBREVIATIONS

SYMBOL	ABBREVIATION	DESCRIPTION
-	AFF	ABOVE FINISHED FLOOR
-	AHC	ABOVE HUNG CEILING
-	BFP	BACK FLOW PREVENTOR
●	-	BALL VALVE
⊃	-	BASKET STRAINER
⊂	-	BUTTERFLY VALVE
∇	-	CHECK VALVE
⊞	-	CIRCUIT SETTER
⊞	CODP	CLEAN OUT DECK PLATE
∇	CW	COLD WATER
∇	-	CONCENTRIC REDUCER
∇	DCV	DOUBLE CHECK VALVE - BFP
∇	-	ECCENTRIC REDUCER
∇	-	ELBOW DOWN
∇	-	ELBOW UP
-	DEM.	EXISTING TO BE REMOVED
-	EX.	EXISTING TO REMAIN
⊞	-	FLEXIBLE CONNECTION
⊞	FCO	FLOOR CLEAN OUT
-	FS	FLOOR SINK
-	-	FLOW ARROW
-	FAI	FRESH AIR INTAKE
⊞	-	GATE VALVE
⊞	-	GLOBE VALVE
-	HW	HOT WATER
-	HW HTR	HOT WATER HEATER
-	HWC	HOT WATER RECIRCULATION
-	LDR	LEADER
-	-	MANUAL AIR VENT
-	NEW	NEW WORK
⊞	-	OS&Y GATE VALVE
⊞	-	PLUG VALVE
⊞	-	PIPE CAP
⊞	-	PRESSURE GAGE
⊞	-	PRESSURE REDUCING VALVE
⊞	-	PUMP
-	PD	PUMP DISCHARGE
-	RPZ	REDUCED PRESSURE ZONE - BFP
-	REL.	REMOVE AND RELOCATE
-	S	SANITARY
⊞	-	SOLENOID VALVE
⊞	-	STRAINER
⊞	SD	STORM DRAINAGE
⊞	-	TEE DOWN
⊞	-	TEE UP
⊞	-	THERMOMETER
-	TYP.	TYPICAL
⊞	-	T&P RELIEF VALVE
⊞	-	UNION
-	V	VENT
-	VTR	VENT THROUGH ROOF
-	WCO	WALL CLEAN OUT
-	W	WASTE LINE

NOTE: FOR REFERENCE ONLY. NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED IN THIS PROJECT.

### PLUMBING MATERIALS

- ALL PIPING BURIED BELOW THE GARAGE SLAB SHALL BE HIGH PERFORMANCE HUB & SPIGOT SERVICE WEIGHT CAST IRON CHARLOTTE PIPE "EDGE HP IRON" ATSM A74, CISPI TMINSF, EN 877 COMPRESSION GASKETS ASTM C564 OR LEAD & OAKUM. REFER TO SPECIFICATIONS 221316

### GENERAL NOTES

- THE CONTRACT DRAWINGS INDICATE THE EXTENT AND GENERAL ARRANGEMENTS OF THE PLUMBING SYSTEMS. IF ANY DEPARTURES FROM THE DRAWINGS ARE DEEMED NECESSARY BY THE PLUMBING CONTRACTOR, DETAILS OF SUCH DEPARTURES AND THE REASONS THEREFORE SHALL BE SUBMITTED TO THE OWNER AND ENGINEER FOR APPROVAL. NO SUCH DEPARTURES SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE OWNER AND ENGINEER. EQUIPMENT AND PIPING ARRANGEMENTS SHALL PROVIDE ADEQUATE AND ACCEPTABLE CLEARANCES FOR ENTRY, SERVICING, AND MAINTENANCE. ANY CHANGES TO PIPING AND EQUIPMENT LOCATIONS NECESSARY TO AVOID INTERFERENCE WITH OTHER TRADES SHALL BE MADE AT NO EXTRA COST.
- THE PLUMBING WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE PREVAILING NEW YORK STATE PLUMBING AND BUILDING CODES, IN CASE OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND A GOVERNING CODE OR ORDINANCE, THE MORE STRINGENT STANDARD SHALL APPLY.
- THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR PAYING RELATED FEES.
- CONNECTIONS TO EXISTING UTILITIES AND SERVICES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, INVERT ELEVATIONS, AND SIZES OF EXISTING PLUMBING SERVICES IN FIELD, AND SHALL CONNECT NEW PLUMBING SERVICES AS INDICATED ON DRAWINGS.
- PRIOR TO FABRICATION, THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB SITE, AND COORDINATE THIS WORK WITH THE WORK OF ALL OTHER TRADES.
- ALL ACCESS PANELS SHALL BE BY GENERAL CONTRACTOR. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR LOCATION.

### GENERAL NOTES

- PROVIDE ALL PLUMBING FIXTURES, PIPING, VALVES AND ACCESSORY ITEMS AS SPECIFIED AND AS REQUIRED FOR A COMPLETE INSTALLATION. ROUGHING DIMENSIONS OF FIXTURES MUST BE COORDINATED WITH THE GENERAL CONTRACTOR.
- PITCH ALL WASTE, SANITARY, AND STORM DRAIN PIPING AT MAXIMUM SLOPE POSSIBLE, BUT NOT LESS THAN 1/8" PER FOOT FOR PIPING ≥ 3" AND 1/4" PER FOOT FOR PIPING ≤ 2 1/2".
- NO PIPING SHALL RUN EXPOSED IN FINISHED AREAS.
- PROVIDE DIELECTRIC FITTINGS OR COUPLINGS WHEREVER DISSIMILAR METALS ARE JOINED.
- PROVIDE SHUTOFF VALVES AT ALL FIXTURES AND EQUIPMENT ON COLD WATER, AND HOT WATER PIPES.
- ALL WORK SHALL BE PROPERLY TESTED, BALANCED, AND CLEANED AND DISINFECTED. PROVIDE A ONE YEAR WARRANTY FROM DATE OF FINAL INSPECTION ON ALL PARTS AND LABOR.
- PROVIDE ALL PIPE OPENINGS THROUGH PARTITIONS WITH PIPE SLEEVES. FOR PIPES PENETRATING FIRE RATED PARTITIONS, THE SPACE BETWEEN THE PIPE AND THE SLEEVE SHALL BE SEALED WITH FIRE STOPPING MATERIAL. PENETRATIONS FOR PIPING SHALL BE MADE BY CORE DRILLING WHENEVER POSSIBLE.
- PROVIDE TRAP SEAL PRIMERS FOR FLOOR DRAINS AS REQUIRED. INSTALL THE PRIMER VALVE IN THE COLD WATER SERVICE, WITH THE TRAP CONNECTION PIPED TO THE FLOOR DRAIN TRAP. LOCATE THE VALVE IN AN ACCESSIBLE LOCATION.
- THE PLUMBING CONTRACTOR SHALL PROVIDE ALL CUTTING, PATCHING, CORE DRILLING, PAINTING, ACCESS PANELS, AND FINAL RESTORATION REQUIRED TO FACILITATE THE INSTALLATION OF PLUMBING PIPING, INCLUDING ABOVE CEILINGS AND IN SHAFTS THAT WILL NOT BE REPLACED OR OPENED UNDER ANY OTHER SCOPE OF WORK RELATED TO THIS PROJECT. CONTRACTOR TO REMOVE AND REPLACE CEILINGS, AND OPEN AND PATCH SHAFTS AND WALLS, AS REQUIRED TO EXECUTE THE PLUMBING WORK.
- SEE THE ARCHITECTURAL DRAWINGS FOR EXACT PHASING AND TIME SCHEDULE FOR CONSTRUCTION.
- ALL MOTOR STARTERS AND DISCONNECT SWITCHES FOR PLUMBING EQUIPMENT SHALL BE FURNISHED BY THE PLUMBING CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED. DISCONNECT SWITCHES FURNISHED BY THE PLUMBING CONTRACTOR FOR PLUMBING EQUIPMENT SHALL BE HEAVY DUTY TYPE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY VENTILATION AND EXHAUST AIR WHEN WELDING OR SOLDERING OPERATIONS ARE PERFORMED, AS REQUIRED BY OSHA.

### EQUIPMENT NOTES

- NATURAL GAS-FIRED DOMESTIC HOT WATER HEATER, (HWH-1): SHALL BE BASED ON AO SMITH MODEL BTH-120 MXI, RATED FOR 138 GPH @ 100° RISE, GAS FIRED, 120,000 BTUH INPUT CAPACITY. THERMAL EFFICIENCY = 95.8%
- NATURAL GAS-FIRED DOMESTIC HOT WATER HEATER, (HWH-2): SHALL BE BASED ON AO SMITH MODEL BTH-150 MXI, RATED FOR 178 GPH @ 100° RISE, GAS FIRED, 150,000 BTUH INPUT CAPACITY. THERMAL EFFICIENCY = 98.8%
- NATURAL GAS-FIRED DOMESTIC HOT WATER HEATER, (HWH-3): SHALL BE BASED ON AO SMITH MODEL BTH-120 MXI, RATED FOR 138 GPH @ 100° RISE, GAS FIRED, 120,000 BTUH INPUT CAPACITY. THERMAL EFFICIENCY = 95.8%
- ELEVATOR SUMP PUMP, (ESP-1), TO BE BASED ON STANCOR MODEL SE50 PUMP, 0.5 HP, 115V-1 PHASE-60 HERTZ, 8 FLA, 55 GPM @ 20 FEET HEAD AND 3450 RPM, 40A LOCKED ROTOR AMPS, 33 FEET MAX. SUBMERGENCE. PROVIDE STANCOR CHECK VALVE WITH EACH PUMP. PROVIDE OIL MINDER CONTROL SYSTEM FOR EACH PUMP WITH BUILT IN AUDIBLE AND VISUAL ALARM WHEN PUMP DOES NOT RUN DUE TO OIL IN PIT OR HIGH LIQUID ALARM. PROVIDE SILENCING BUTTON FOR AUDIBLE ALARM BUILT INTO PANEL. PANEL SHALL HAVE ADDITIONAL CONTACT FOR A REMOTE ALARM LOCATION. PROVIDE JUNCTION BOX WITH MULTI PIN CONNECTOR AND CORD LENGTHS AS REQUIRED. PANEL TO HAVE INDICATOR LIGHTS FOR OIL SPILL, HIGH LIQUID LEVEL, OVERLOAD AND PUMP RUN. CONTROL PANEL ENCLOSURE TO BE NEMA4X WATERTIGHT CORROSION RESISTANT FIBERGLASS.
- SUMP PUMP, (SP-1) AND (SP-2), TO BE BASED ON STANCOR MODEL SV500 PUMP, 5 HP, 208V-3 PHASE-60 HERTZ, 16.6 FLA, 210 GPM @ 35 FEET HEAD AND 3450 RPM, 83A LOCKED ROTOR AMPS, 33 FEET MAX. SUBMERGENCE. PROVIDE STANCOR CHECK VALVE WITH EACH PUMP. PROVIDE OIL MINDER CONTROL SYSTEM FOR EACH PUMP WITH BUILT IN AUDIBLE AND VISUAL ALARM WHEN PUMP DOES NOT RUN DUE TO OIL IN PIT OR HIGH LIQUID ALARM. PROVIDE SILENCING BUTTON FOR AUDIBLE ALARM BUILT INTO PANEL. PANEL SHALL HAVE ADDITIONAL CONTACT FOR A REMOTE ALARM LOCATION. PROVIDE JUNCTION BOX WITH MULTI PIN CONNECTOR AND CORD LENGTHS AS REQUIRED. PANEL TO HAVE INDICATOR LIGHTS FOR OIL SPILL, HIGH LIQUID LEVEL, OVERLOAD AND PUMP RUN. CONTROL PANEL ENCLOSURE TO BE NEMA4X WATERTIGHT CORROSION RESISTANT FIBERGLASS.
- LD-1 SPOT TYPE LEAK DETECTORS SHALL BE LIEBERT MODEL LT-410. PROVIDE 100 WATT LOW-VOLTAGE TRANSFORMER. PROVIDE CONNECTION TO BMS FOR LD ALARM.
- DOMESTIC HOT WATER HEATER RECIRCULATION PUMP, (HWCP-1): SHALL BE BASED ON BELL AND GOSSETT MODEL PL-55 RATED FOR 1-GPM AT 40' TDH, 2/5 HP, 120V/160HZ. MOTOR STARTERS AND DISCONNECT SWITCHES SHALL BE FURNISHED BY THE PLUMBING CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
- 3" DOMESTIC WATER BACKFLOW PREVENTION ASSEMBLY: SHALL BE WATTS MODEL LF009 LEAD FREE REDUCED PRESSURE ZONE BACKFLOW PREVENTER. ASSEMBLY SHALL BE SUITABLE FOR PRESSURES UP TO 175 PSI AND TEMPERATURES UP TO 110°F. THE ASSEMBLY SHALL INCLUDE TWO RESILIENT OS&Y SEATED SHUTOFF VALVES AND FOUR BALL TYPE TEST COCKS. THE 3" DOMESTIC WATER BACKFLOW PREVENTER SHALL BE PROVIDED WITH WATTS AIR GAP / SPLASH GUARD.
- 6" FIRE PROTECTION BACKFLOW PREVENTION ASSEMBLY: SHALL BE WATTS SERIES 709DCD DOUBLE CHECK DETECTOR ASSEMBLY BACKFLOW PREVENTER. ASSEMBLY SHALL BE SUITABLE FOR PRESSURES UP TO 175 PSI AND TEMPERATURES UP TO 110°F. THE ASSEMBLY SHALL INCLUDE TWO RESILIENT OS&Y SEATED SHUTOFF VALVES AND TWO BALL TYPE TEST COCKS.
- WATER METER: SHALL BE BASED ON ELSTER EVOQA METER, 3" SIZE, FINAL WATER METER AND SIZE, MODEL, AND DIMENSIONS SHALL BE DETERMINED AND APPROVED BY THE WATER UTILITY. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR COORDINATION AND INSTALLATION, AND ALL RELATED WATER DEPARTMENT FEES.
- ALL DOMESTIC, SANITARY, AND STORM PIPING ROUTED EXPOSED WITHIN GARAGE SHALL BE HEAT TRACED COMPLETE, INCLUDING A MINIMUM OF 3" INTO THE TEMPERED SPACES. PIPING SHALL BE INSULATED COMPLETE AND WRAPPED WITH PVC JACKETING.
- COORDINATE WITH ARCHITECTURAL DRAWINGS FOR FINAL LOCATION, TYPE, AND QUANTITY OF FIXTURES AND ROOF DRAINS THROUGHOUT THE BUILDING.
- COORDINATE WITH SITE ENGINEER DRAWINGS FOR FINAL LOCATION, TYPE, AND QUANTITY OF ROADWAY DRAINS.
- ALL PIPING INCLUDING HANGERS/SUPPORTS WITHIN THE GARAGE SHALL BE ROUTED AS HIGH AS POSSIBLE TO MAINTAIN VEHICLE CLEARANCE THROUGHOUT. REFER TO ARCHITECTURAL DRAWINGS FOR MINIMUM ELEVATIONS.
- THE PLUMBING CONTRACTOR SHALL SUBMIT FOR REVIEW A COMPOSITE SHOP DRAWING, FULLY COORDINATED WITH ALL OTHER TRADES, INDICATING EQUIPMENT, DUCTWORK, PLUMBING AND SPRINKLER PIPING, SMOKE DETECTORS, LIGHTS, CONDUITS, SMOKE DETECTORS, DIFFUSERS, GRILLES, AND ALL RCP ELEMENTS, ETC.
- PROVIDE TRAP AND VALVE GUARDS AT ALL LAVATORIES WITH EXPOSED PIPING SIMILAR TO TRUEBRO P-TRAP AND TWO (2) VALVE COVERS WITH VINYL COVER.
- GAS BOOSTER PUMP (GMP-1): SHALL BE ACCARDI COMPAC HB4615-1. SYSTEM SHALL BE A PACKAGE HERMETICALLY SEALED SYSTEM THAT INCLUDES AUTO FLOW CONTROL, INTEGRAL VFD, NEMA 4 PANEL, NEMA 4 LOW PRESSURE SWITCH, INLET AND OUTLET ISOLATION VALVES, FLEXIBLE CONNECTIONS, INLET AND OUTLET PRESSURE GAUGES, AND CHECK VALVE. SYSTEM SHALL BE CAPABLE OF DELIVERING A VARIABLE VOLUME OF NATURAL GAS OF 1,370 CFH WHILE PROVIDING A CONSTANT ELEVATED DIFFERENTIAL GAS PRESSURE OF 11" WC.

**HARRISON RECREATION & COMMUNITY CENTER**  
New Construction - Phase 2  
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Professional Seal

No.	Date	Issue
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

### PLUMBING SYMBOLS, ABBREVIATIONS, & NOTES

Job No. NKG00207.00 Date 03/01/2024

Scale AS NOTED Drawn / Checked HM / RG

Sheet Number

**P-001**

**HARRISON  
RECREATION &  
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New Construction - Phase 2  
Town / Village of Harrison  
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Key Plan

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2	06/05/2024	ISSUED FOR BID
1	01/16/2024	ISSUED FOR PERMIT
No.	Date	Issue

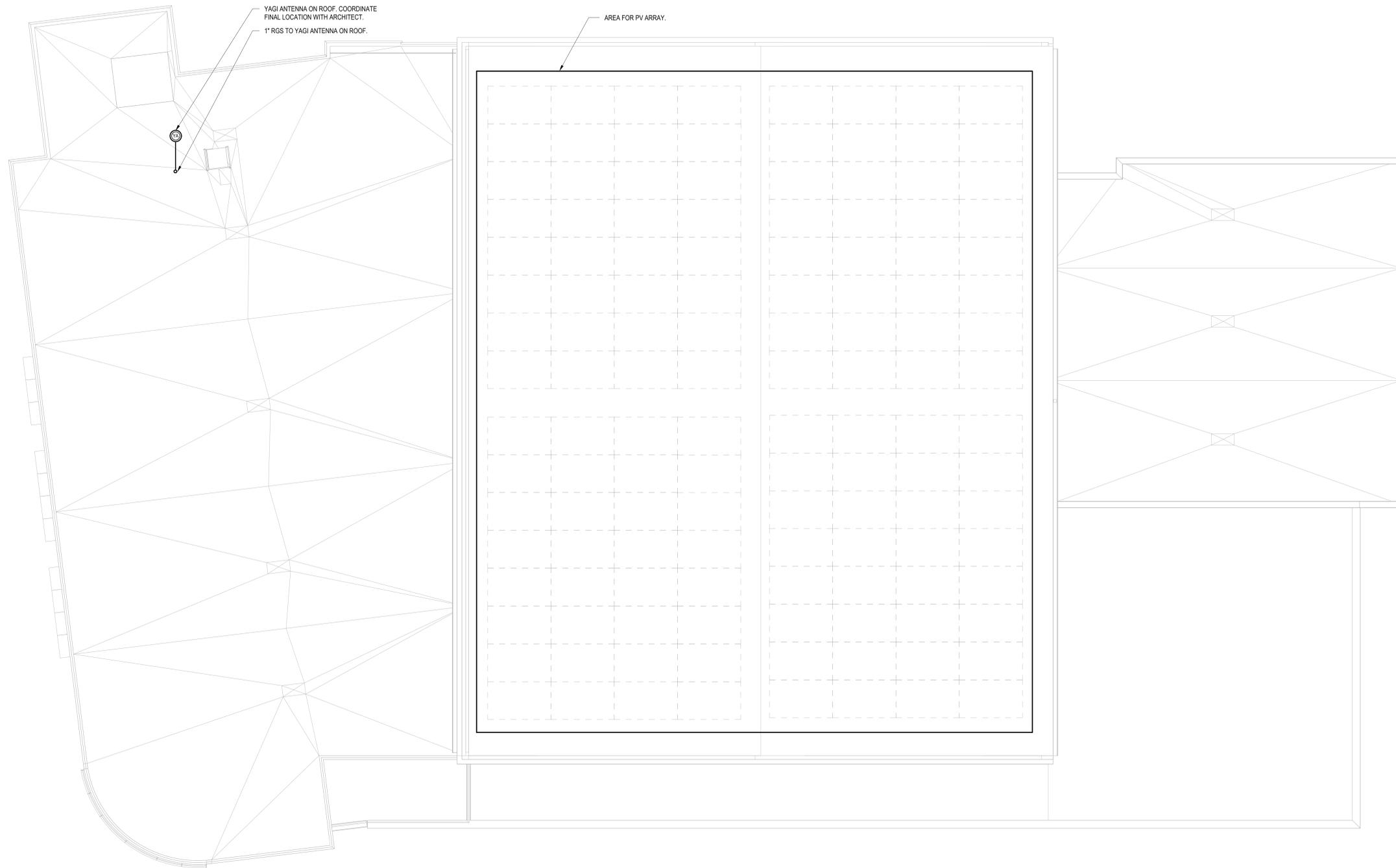
Sheet Title

**FIRE RADIO ROOF  
PLAN**

Job No.	Date
NKGD0207.00	01/09/24
Scale	Drawn / Checked
AS NOTED	Author / Checker

Sheet Number

**FR-304**



**1 FIRE RADIO ROOF PLAN**  
SCALE: 1/8" = 1'-0"

NOTES:  
1.) SEE FIRE RADIO RISER DIAGRAM FOR ADDITIONAL INFORMATION.

**HARRISON  
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New Construction - Phase 2

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olace.com

**CONSTRUCTION DOCUMENTS**

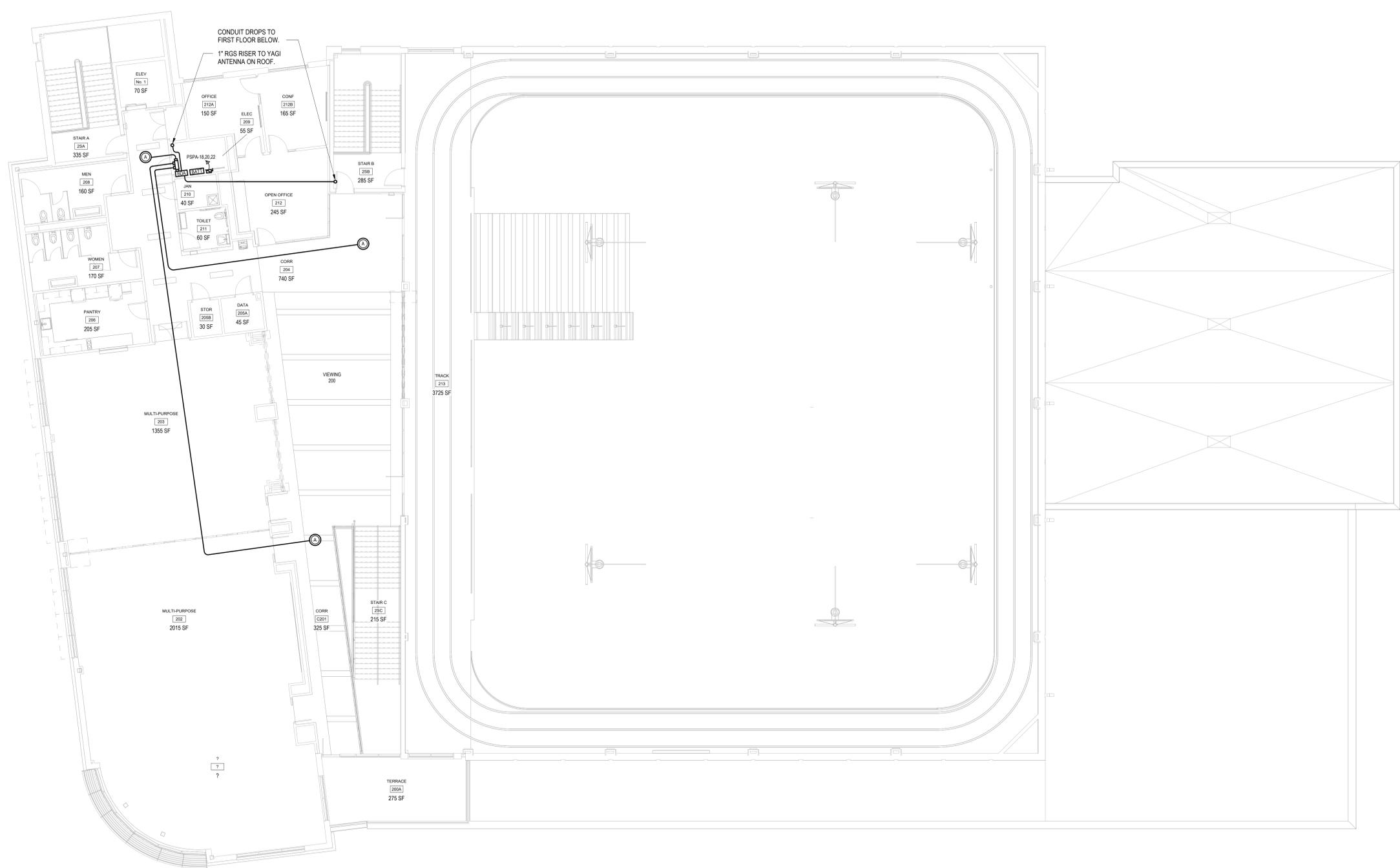
Key Plan

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Professional Seal



**1 FIRE RADIO SECOND FLOOR PLAN**  
SCALE: 1/8" = 1'-0"

NOTES:  
1.) SEE FIRE RADIO RISER DIAGRAM FOR ADDITIONAL INFORMATION.

No.	Date	Issue
2	06/05/2024	ISSUED FOR BID
1	01/16/2024	ISSUED FOR PERMIT

**FIRE RADIO  
SECOND FLOOR  
PLAN**

Job No. NKGD0207.00 Date 01/09/24  
Scale AS NOTED Drawn / Checked Author Checker

Sheet Number  
**FR-303**

**HARRISON  
RECREATION &  
COMMUNITY  
CENTER**

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue  
Harrison, NY 10528



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Key Plan

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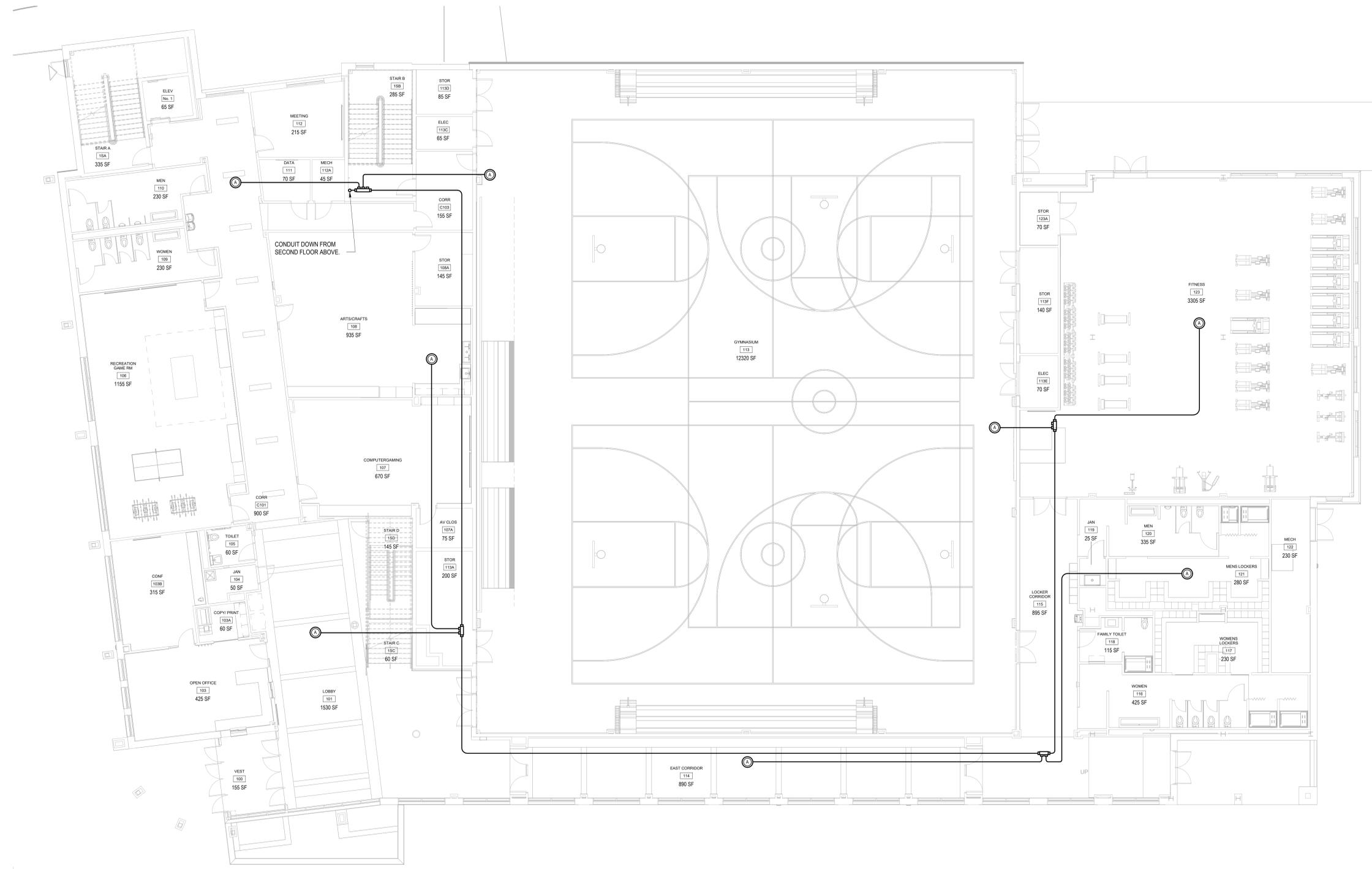
Professional Seal

2	06/05/2024	ISSUED FOR BID
1	01/16/2024	ISSUED FOR PERMIT
No.	Date	Issue

**FIRE RADIO FIRST FLOOR PLAN**

Job No.	NKGD0207.00	Date	01/09/24
Scale	AS NOTED	Drawn / Checked	Author / Checker

Sheet Number  
**FR-302**



**1 FIRE RADIO FIRST FLOOR PLAN**  
SCALE: 1/8" = 1'-0"

NOTES:  
1.) SEE FIRE RADIO RISER DIAGRAM FOR ADDITIONAL INFORMATION.

**HARRISON  
RECREATION &  
COMMUNITY  
CENTER**

New Construction - Phase 2  
Town / Village of Harrison  
270 Harrison Avenue  
Harrison, NY 10528

**KG+D** listen  
imagine  
build  
**KG+D ARCHITECTS, PC**  
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**CONSTRUCTION DOCUMENTS**

Key Plan

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Professional Seal

2	06/05/2024	ISSUED FOR BID
1	01/16/2024	ISSUED FOR PERMIT
No.	Date	Issue

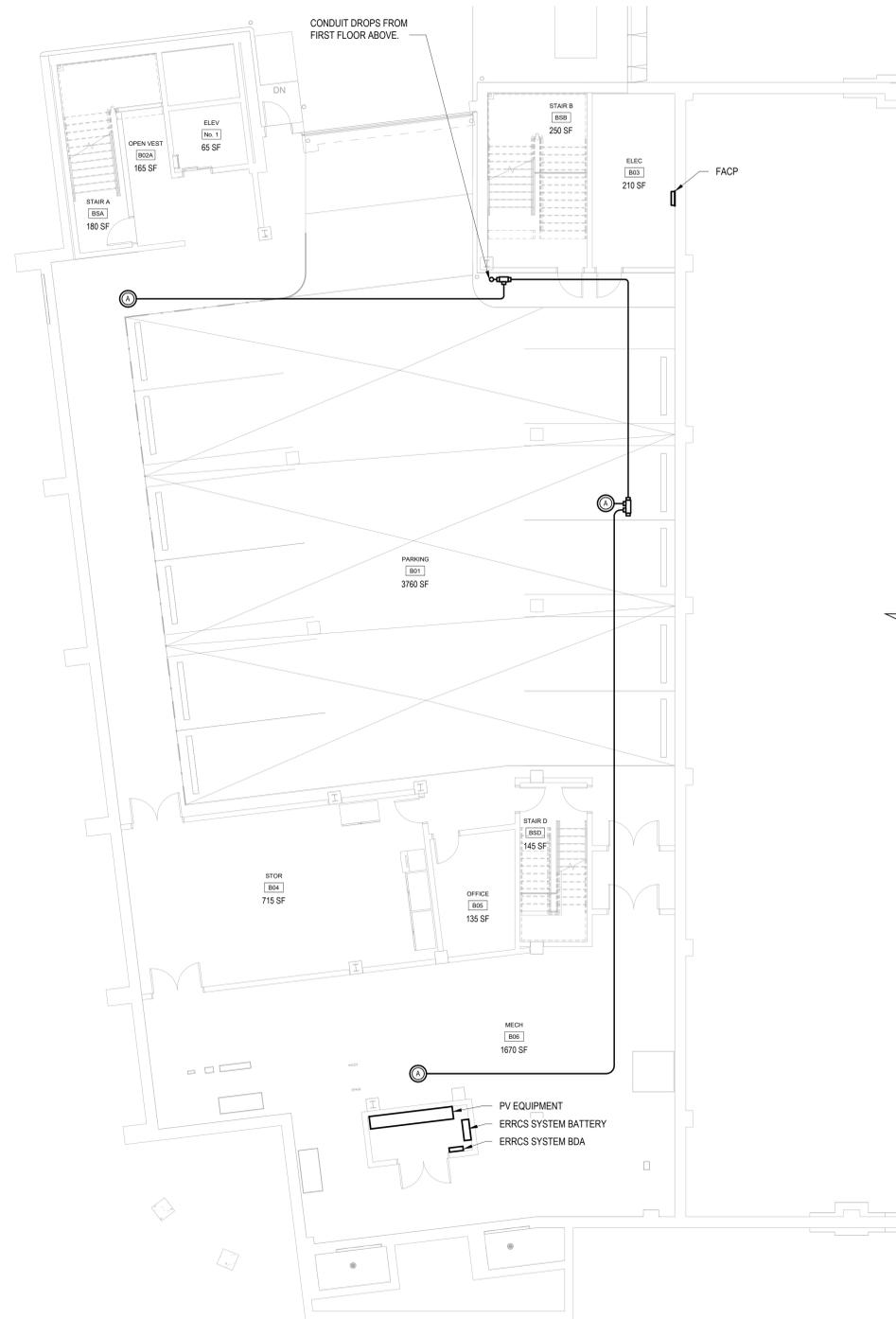
Sheet Title

**FIRE RADIO  
PARKING LEVEL  
PLAN**

Job No.	Date
NKGD0207.00	01/09/24
Scale	Drawn / Checked
AS NOTED	Author / Checker

Sheet Number

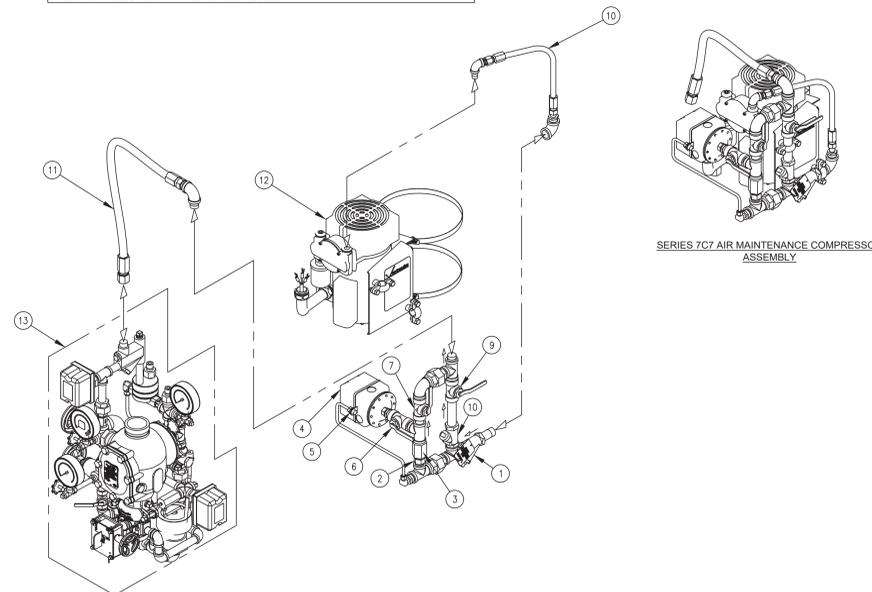
**FR-301**



**1 FIRE RADIO PARKING FLOOR LEVEL PLAN**  
SCALE: 1/8" = 1'-0"

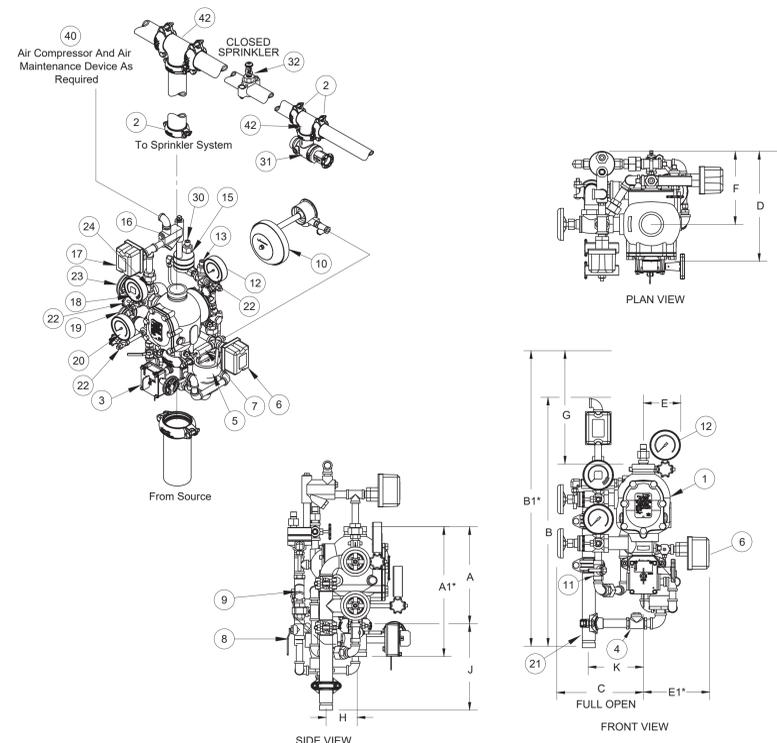
NOTES:  
1.) SEE FIRE RADIO RISER DIAGRAM FOR ADDITIONAL INFORMATION.

PRODUCT LEGEND	
1	STRAINER (1/2-INCH NPT)
2	SPRING-LOADED, SOFT-SEATED CHECK VALVE
3	RESTRICTOR (1/2-INCH NPT)(1/8 RESTRICTOR)
4	PRESSURE SWITCH
5	UNLOADER VALVE
6	PRESSURE SWITCH ISOLATION BALL VALVE (NORMALLY OPEN-LOCKABLE)
7	SLOW-FILL BALL VALVE (NORMALLY OPEN)
8	SWING CHECK (1/2-INCH NPT)
9	FAST FILL BALL VALVE (NORMALLY CLOSED)
10	STAINLESS STEEL BRAIDED FLEX HOSE (1/2-INCH NPT MALE X FEMALE)
11	STAINLESS STEEL BRAIDED FLEX HOSE (1/2-INCH NPT MALE X FEMALE)
12	AIR COMPRESSOR
13	FIRELOCK NXT DEVICE
SEE VICTAULIC SUBMITTAL NUMBER 30 22	



NOTES:  
1. EQUIPMENT BASED ON VICTAULIC OR APPROVED EQUAL.  
2. \* OPTIONAL EQUIPMENT.

**2 DRY SYSTEM - AIR MAINTENANCE ASSEMBLY SERIES 7C7**  
SCALE: NONE



NOTES:  
1. EQUIPMENT BASED ON VICTAULIC OR APPROVED EQUAL.  
2. \* OPTIONAL EQUIPMENT.

**1 DRY VALVE ASSEMBLY - VICTAULIC FIRELOCK NXT**  
SCALE: NONE

PRODUCT LEGEND	
1	Series 788 Firelock NXT Dry Valve (see Submittal 30.80) With Optional Vic Quick Riser
2	Firelock Rigid Couplings 005_009_009V
3	Series 705 Butterfly Valve (Optional)
4	Drain Swing Check Valve
5	Drip Cup
6	System Sensor EPS10-2 Alarm Pressure Switch
7	Series 729 Drip Check Valve
8	Diaphragm-Charge-Line Ball Valve (Normally Open)
9	3-in-1 Strainer/Check/Restrictor Assembly
10	Series 760 Water Motor Alarm (Optional)
11	Alarm Test Ball Valve
12	Diaphragm-Charge-Line Pressure Gauge (0-300psi/0-2068kPa)
13	Series 749 Auto Drain
14	Series 746-LPA Dry Accelerator Assembly (Optional)(Not Shown)
15	Series 776 Low-Pressure Actuator
16	Air Manifold
17	EPS-45-2V Supervisory Switch (Optional)
18	System Pressure Gauge (0-80 psi/0-552kPa with Retard)
19	Water Supply Main Drain Valve - Flow Test
20	Water Supply Pressure Gauge (0-300psi/0-2068kPa)
21	Drain Connection Kit (Optional)
22	Gauge Valve
23	System Main Drain Valve
24	Series 748 Ball Check Valve
25	n/a
26	Air Feed Valve Assembly (Not Shown)
27	System Air Line Strainer (Not Shown)
28	n/a
29	n/a
30	Auto Vent for 776 Low Pressure Actuator
31	Series 720 Testmaster
32	Upright Sprinkler - Victaulic Model V2703/V2704
33	n/a
34	n/a
35	n/a
36	n/a
37	n/a
38	n/a
39	n/a
40	Air Maintenance Device Victaulic 757/757P with pressure switch
41	(Optional Series 750 Water Column Drain Kit) not shown
42	Firelock 1 ee 002
SEE VICTAULIC PUBLICATION 10.01 FOR DETAILS OF APPROVALS UL/FM APPROVED NYC MEA-248-98-E Volume 3	

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No.	Date	Issue
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

**FIRE PROTECTION  
DETAILS 3 OF 3**

Job No.	Date
NKGD0207.00	03/01/2024

Scale	Drawn / Checked
AS NOTED	AM / CD

Sheet Number

**FP-703**