

GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH AND BE INSTALLED IN ACCORDANCE WITH THE SUPPLEMENTAL UNIFORM AND FIRE PREVENTION BUILDING CODE, INTERNATIONAL BUILDING CODE, INTERNATIONAL MECHANICAL CODE, AND ALL CODES LOCAL OR OTHERWISE HAVING JURISDICTION OVER THE WORK.
2. DUCTWORK & PIPING IS DIAGRAMMATICALLY SHOWN. EXACT ROUTING OF NEW PIPING & DUCTWORK SHALL BE DETERMINED IN FIELD AND COORDINATION DRAWINGS SHALL BE SUBMITTED IN CONJUNCTION WITH THE GENERAL CONTRACTOR FOR ENGINEER APPROVAL. SEE SPECIFICATION 01010.
3. THE WORDS PROVIDE OR INSTALL, SINGLY OR IN COMBINATION SHALL MEAN FURNISH AND INSTALL IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
4. THE CONTRACTOR SHALL PROVIDE ALL CUTTING AND PATCHING TO MATCH EXISTING AS REQUIRED FOR THE INSTALLATION OF HIS WORK.
5. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF HIS WORK AND NEWLY INSTALLED WORK, INCLUDING PROTECTION OF BUILDING OCCUPANTS AND OWNERS EQUIPMENT, PUBLIC, AND PERSONNEL. PROVIDE APPROPRIATE BARRIERS, AND SAFETY GUARD RAILS AS REQUIRED.
6. WHERE WELDING OR OPEN FLAME IS USED FOR CUTTING, SOLDERING, ETC., CONTRACTOR SHALL PROVIDE FIRE EXTINGUISHERS AND A FIRE WATCH IN PROXIMITY OF WORK AREA. CONTRACTOR SHALL PROVIDE HOT WORK PERMIT WHERE NECESSARY AND OBTAIN HOT WORK PERMIT FROM OWNER.
7. ALL WORK SHALL BE COORDINATED WITH ALL TRADES RELATED TO THE COMPLETION OF THIS PROJECT.
8. THE CONTRACTOR SHALL FILE PLANS WITH THE GOVERNING AUTHORITIES HAVING JURISDICTION AND SHALL SECURE ALL PERMITS AND PAY ALL FEES REQUIRED FOR THE INSTALLATION OF HIS WORK.
9. THE CONTRACTOR SHALL GUARANTEE ALL MATERIAL AND WORK INSTALLED TO BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR. AFTER ACCEPTANCE OF THE INSTALLATION BY THE ENGINEER AND OWNER, THE CONTRACTOR SHALL SUBMIT IN WRITING TO OWNER STATING THE SAME. EQUIPMENT WARRANTIES OF A LONGER DURATION SHALL APPLY.
10. THE CONTRACTOR SHALL INDEMNIFY THE OWNER, HIS REPRESENTATIVES AND THE ENGINEER FROM ANY CLAIMS OR SUITS RESULTING IN NEGLIGENCE ON THE PART OF THE CONTRACTOR AND FOR FAILING TO EXECUTE HIS WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
11. THE CONTRACTOR SHALL PROVIDE ALL RIGGING, HOISTING AND SCAFFOLDING AS REQUIRED FOR THE INSTALLATION OF HIS WORK.
12. ALL WORK SHALL BE PERFORMED BY LICENSED CONTRACTORS AND WORKMEN EXPERIENCED IN THE TRADE HAVING JURISDICTION. ALL WORK SHALL BE SUPERVISED AT ALL TIMES AND WORKMANSHIP SHALL BE FIRST CLASS IN ALL RESPECTS AND IN ACCORDANCE WITH BEST TRADE PRACTICES.
13. ANY DEVIATION OR CHANGE IN DESIGN SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE ENGINEER AND SIGNED BY THE OWNER. ANY WORK INSTALLED WITHOUT PRIOR APPROVAL OF THE ENGINEER AND OWNER OR FOUND TO BE DEFECTIVE IN ANY WAY SHALL BE REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE.
14. ALL CONSTRUCTION WORK SHALL BE CONFINED TO THE AREA INDICATED ON PLANS AND SHALL NOT BLOCK MEANS OF EGRESS FOR OCCUPANTS OF THE BUILDING.
15. PATCHING OF WALLS, FLOORS, ETC. SHALL BE BY TRADE WHO PERFORMED WORK UNLESS OTHERWISE NOTED AND SHALL MATCH EXISTING SURROUNDING AREA IN ALL RESPECTS. WORK AREA SHALL BE LEFT BROOM CLEAN AT THE END OF EACH DAY. ALL DISCARDED AND DEMOLISHED MATERIAL AND RUBBISH SHALL BE REMOVED FROM PREMISES DAILY IN A LEGAL AND APPROVED MANNER. FINAL PATCHING AND PAINTING SHALL BE PERFORMED BY GENERAL CONTRACTOR.
16. THE CONTRACTOR SHALL SUBMIT DIGITAL COPIES OF SHOP DRAWINGS OF ALL EQUIPMENT, PIPING, DUCTWORK, AND MATERIALS TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION AND INSTALLATION OF NEW WORK. WITHIN TWO WEEKS AFTER AWARD OF CONTRACT. SHOP DRAWINGS SHALL INDICATE ALL TECHNICAL DATA, STRUCTURAL MEMBERS, WALLS, FLOORS, DUCTWORK, ETC., WITH ELEVATIONS AT WHICH NEW WORK IS TO BE INSTALLED. ANY DEVIATION IN DESIGN SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE ENGINEER AND OWNER. THE ENGINEER SHALL REVIEW AND TURN AROUND SHOP DWGS. WITHIN (7) DAYS OF RECEIPT OF SAME.
17. THE CONTRACTOR SHALL MAINTAIN ON THE JOB SITE A SET OF CONTRACT DRAWINGS.
18. THE CONTRACTOR SHALL MAINTAIN ON THE JOB SITE A SET OF SHOP DRAWINGS IN WHICH ANY DEVIATIONS FROM THE ORIGINAL DESIGN SHALL BE NOTED.
19. ALL WORK SHOWN ON ALL DRAWINGS IS TO BE PROVIDED UNLESS OTHERWISE NOTED.
20. ALL PENETRATIONS THROUGH PARTITIONS, FLOORS, WALLS AND ROOF FOR ALL PIPING, CONDUIT AND DUCTWORK SHALL BE SEALED AND FIRE SAFED OFF TO MAINTAIN FIRE INTEGRITY OF EXISTING STRUCTURE.
21. THE CONTRACTOR SHALL MAINTAIN ON THE JOB SITE A SET OF SHOP DRAWINGS IN WHICH ANY DEVIATIONS FROM THE ORIGINAL DESIGN SHALL BE NOTED. UPON COMPLETION OF THE INSTALLATION OF NEW WORK THE CONTRACTOR SHALL TURN OVER TO THE OWNER AND ENGINEER (1) SET OF AS-BUILT REPRODUCIBLE DRAWINGS AND (1) SET OF PRINTS INCLUDING ALL APPROVED FIELD CHANGES AND DESIGN DEVIATIONS PRIOR TO RECEIPT OF FINAL PAYMENT BY OWNER.
22. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, AS WELL AS BE SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF THE WORK.
23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING REASONABLE PRECAUTIONS AND SHALL PROVIDE REASONABLE PROTECTION TO PREVENT INJURY OR DAMAGE TO PERSONS, THE WORK AND OTHER PROPERTY.

HVAC NOTES

1. PROVIDE VOLUME DAMPERS AS INDICATED ON DRAWINGS AND AT ALL BRANCH DUCT TAKE OFFS FROM DUCT MAINS AND TO DIFFUSERS, REGISTERS AND GRILLES ONLY IN NON-CLASSIFIED SPACES. VOLUME DAMPERS SHALL BE OPPOSED BLADE OR BUTTERFLY TYPE, GALVANIZED STEEL THAT CAN BE MANUALLY ADJUSTED AND LOCKED IN PLACE EXTERNALLY OF THE DUCT. PROVIDE LOCKING QUADRANT. ALL CONCEALED DAMPERS SHALL BE PROVIDED WITH ACCESS DOORS
2. PROVIDE SLEEVES FOR ALL DUCTS PENETRATING AND PASSING THROUGH ALL PARTITIONS, FLOORS, CEILINGS AND WALLS, ALLOW ROOM IN SLEEVE FOR INSULATION. SLEEVES SHALL BE MINIMUM OF 22 GAUGE SHEET METAL. PACK ANNULAR SPACE IN SLEEVE AROUND DUCT WITH FIRE RATED MATERIAL. SIMILAR TO THERMAFIBER. SEAL AND CAULK ALL WALL, FLOOR, CEILING AND SLAB OPENINGS WITH U.L. APPROVED FIRE RATED MATERIAL TO PREVENT TRANSMISSION OF ODORS AND SMOKE TO ADJACENT SPACES. ALL DUCT PENETRATIONS OF FIRE RATED WALLS AND SLABS SHALL BE EQUIPPED WITH FIRE/SMOKE RATED DAMPERS
3. CONTRACTOR SHALL PROVIDE ACCESS DOORS IN ALL CEILINGS, DUCTS, CHASES AND WALLS AS REQUIRED FOR ACCESS TO ALL CONCEALED OPERATING DEVICES INCLUDING BUT NOT LIMITED TO FIRE DAMPERS, VOLUME DAMPERS,CONTROL DAMPERS AND BOXES, ETC.
4. ALL HVAC WORK SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE, STATE AND LOCAL BUILDING CODES, SMACNA AND ASHRAE STANDARDS, NFPA-90A, ALL CODES AND ORDINANCES HAVING JURISDICTION, AND IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
5. UPON COMPLETION OF ALL WORK, ALL EQUIPMENT AND DUCTWORK SHALL BE THOROUGHLY CLEANED AND LEFT IN FIRST CLASS CONDITION.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EQUIPMENT UNDER THIS SECTION UNTIL FINAL ACCEPTANCE BY THE ENGINEER.
7. ALL EQUIPMENT SHALL BE TESTED IN ACCORDANCE WITH ALL APPLICABLE CODES, MANUFACTURER SPECIFICATIONS, AND TO THE SATISFACTION OF THE ENGINEER.
8. BALANCE AND ADJUST AIRFLOW TO REGISTERS AND GRILLES AS INDICATED ON DRAWINGS. ALL SYSTEMS SHALL BE BALANCED TO WITHIN 10% OF DESIGN FLOW WITH REPORT SUBMITTED TO OWNER. BALANCING WORK SHALL BE PERFORMED BY AN INDEPENDENT CERTIFIED BALANCING CONTRACTOR WHO IS CERTIFIED BY AABC OR NEBB. SUBMIT BALANCING REPORT TO ENGINEER FOR APPROVAL.
9. ALL DUCTWORK SHALL BE STAINLESS STEEL SHEET METAL UNLESS OTHERWISE NOTED AND SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA METAL AND FLEXIBLE DUCT CONSTRUCTION STANDARDS LATEST EDITION AND APPLICABLE CODES. ALL DUCTWORK SIZES SHOWN ARE SHEETMETAL SIZES, AND REDUCTIONS IN FREE AREA CREATED BY INTERNAL SOUND-LINING ARE ACCOUNTED FOR IN DESIGN.
10. CONTRACTOR SHALL PROVIDE ALL CONTROLS, AND CONTROL WIRING AS REQUIRED FOR COMPLETE CONTROL OF EQUIPMENT FOR A COMPLETE FUNCTIONING SYSTEM. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
11. INSTALL ALL REQUIRED APPURTENANCES PER CODE WHETHER SPECIFIED OR NOT FOR COMPLETE FUNCTIONING SYSTEMS.
12. HVAC INSULATION (AS MANUFACTURED BY OWENS CORNING, KNAUF, SCHULLER, OR ENGINEERED APPROVED EQUAL)
13. ALL INSULATION TO BE APPLIED IN FULLY ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS AND COMPLY WITH 25/50 FLAME AND SMOKE HAZARD RATINGS PER ASTM E-84, NFPA 255 AND UL 723.
14. INSULATE AIR CONDITIONING CONDENSATE DRAIN PIPING WITH 1" THICK MOLDED FIBER GLASS INSULATION.

GENERAL ABBREVIATIONS

- AFF -

CD -

D.P. -

EA -

EAT -

EF -

EG -

EB -

EUH -

EL -

ESP -

FC -

FLA -

LAT -

MCA -

MD -

MOCPP -

NTS -

OA -

RA -

RAG -

RS -

RL -

RTU -

SA -

SD -

SF -

SG -

STD -

TSP -

(TYP.) -
- ABOVE FINISHED FLOOR
CONDENSATE DRAIN
DIFFERENTIAL PRESSURE
EXHAUST AIR
ENTERING AIR TEMPERATURE
EXHAUST FAN
EXHAUST GRILLE
ELECTRIC BASEBOARD HEATER
ELECTRIC UNIT HEATER
ELEVATION
EXTERNAL STATIC PRESSURE
FLEXIBLE CONNECTION
FULL LOAD AMPS
LEAVING AIR TEMPERATURE
MINIMUM CIRCUIT AMPACITY
MOTORIZED DAMPER
MAXIMUM OVER CURRENT PROTECTION
NOT TO SCALE
OUTSIDE AIR
RETURN AIR
RETURN AIR GRILLE
REFRIGERANT SUCTION
REFRIGERANT LIQUID
ROOF TOP UNIT
SUPPLY AIR
SUPPLY DIFFUSER
SUPPLY FAN
SUPPLY GRILLE
STANDARD
TOTAL STATIC PRESSURE
TYPICAL

SYMBOLS

- SUPPLY DUCT RISER
- RETURN DUCT RISER
- EXHAUST DUCT RISER
- WORK TO BE PROVIDED
- EXISTING CONDITIONS/WORK BY OTHER TRADES

DEMOLITION GENERAL NOTES

1. THE DEMOLITION, MODIFICATION OR ALTERATION OF EXISTING BUILDINGS, EQUIPMENT, OR MATERIALS SHALL BE COMPLAINT TO ALL LOCAL REGULATIONS AND STATE CODES.
2. FOR MAINTENANCE OF EXISTING PLANT OPERATION AND FOR DEMOLITION SEQUENCE, REFER TO SPECIFICATIONS. CONTRACTOR SHALL PROVIDE TEMPORARY FACILITIES WHERE NECESSARY.
3. INCORPORATE NYPA ENVIRONMENTAL SPECIFICATION AS NECESSARY FOR REMOVAL OF HAZARDOUS MATERIALS, INCLUDING OIL, MERCURY, PCBs, LEAD, ASBESTOS, ETC.



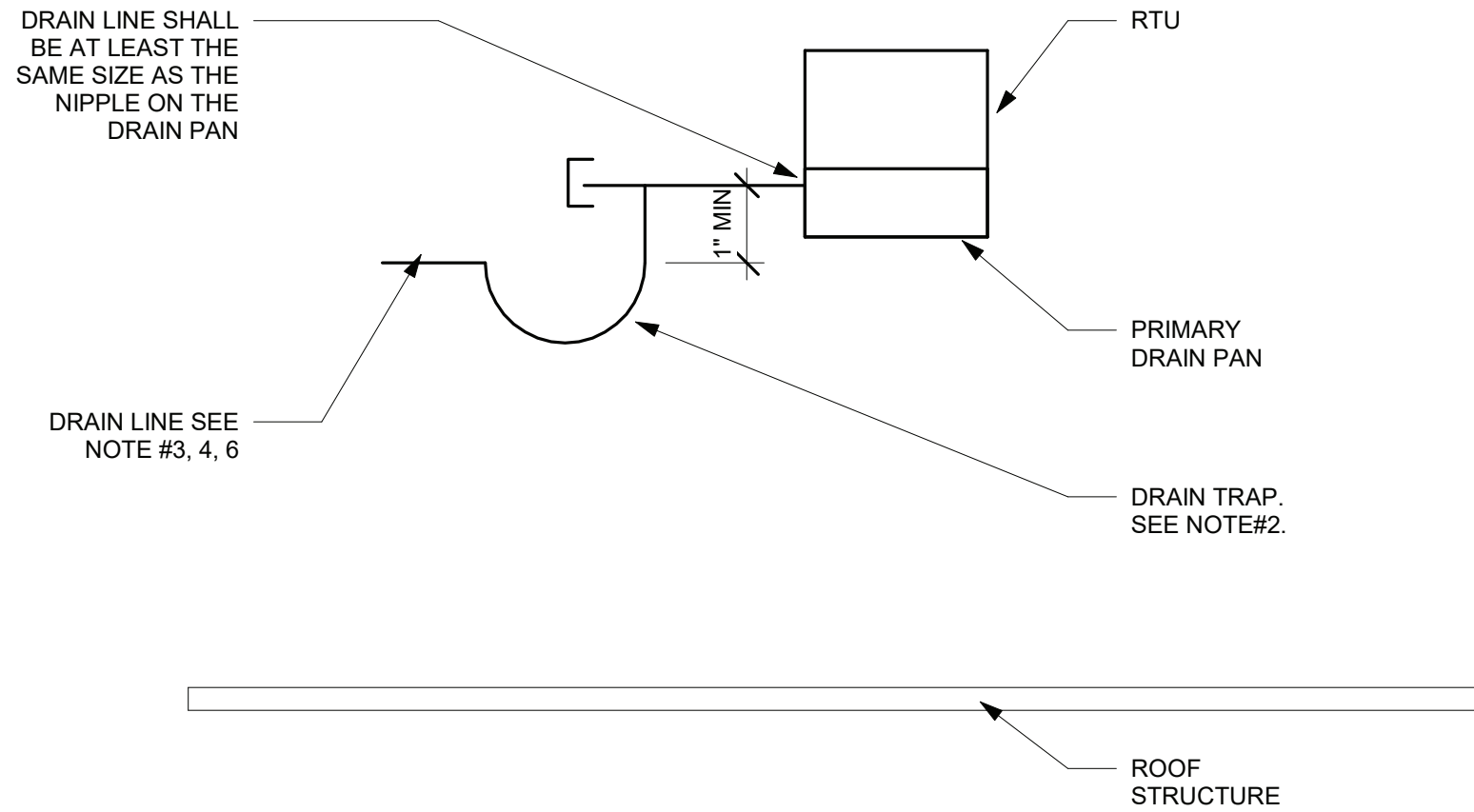
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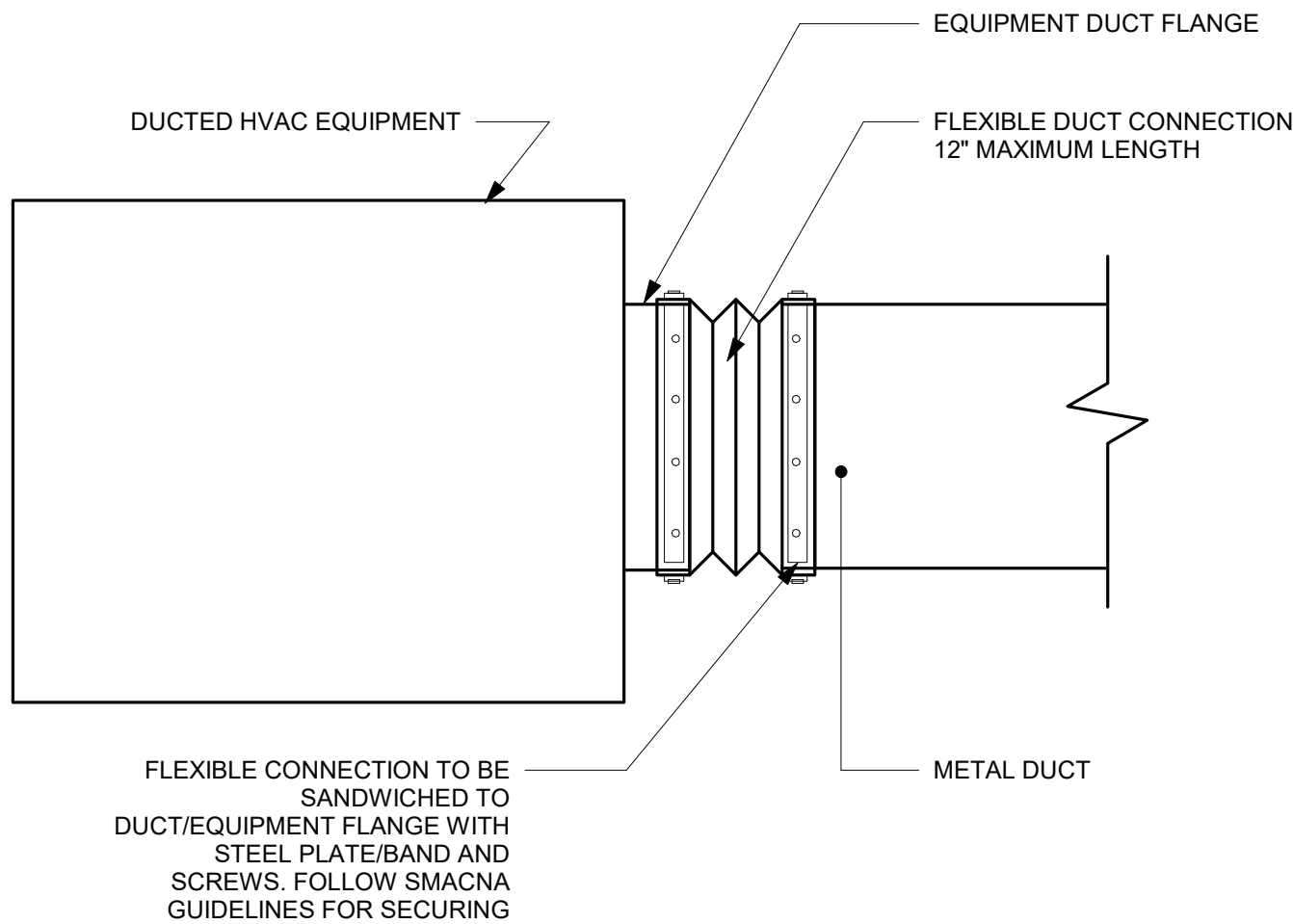
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PROJECT TITLE: UNION HILL AND TALLMAN AVE PUMP STATION UPGRADE		DRAWINGS ISSUED FOR / REVISIONS							CONTRACT #	
PROJECT LOCATION: ROCKLAND COUNTY, NEW YORK		NO.	DATE	ISSUED FOR / REVISIONS			BY	CHK	APP	DATE
CLIENT: ROCKLAND COUNTY SEWER DISTRICT No. 1		1	04/22	60 PERCENT DESIGN REVIEW			MJL	JGD	GRL	06/2023
DRAWING TITLE: PUMP STATION NOTES, LEGEND AND ABBREVIATIONS		2	07/22	90 PERCENT DESIGN REVIEW			MJL	JGD	GRL	DRAWN BY: J. ROSS
		3	09/22	FOR REGULATORY REVIEW			MJL	JGD	GRL	CHECKED BY: G. LYNCH
		4	01/23	100 PERCENT DESIGN REVIEW			MJL	JGD	GRL	DRAWING NUMBER:
		5	03/23	100 PERCENT DESIGN REVIEW			MJL	JGD	GRL	H-001
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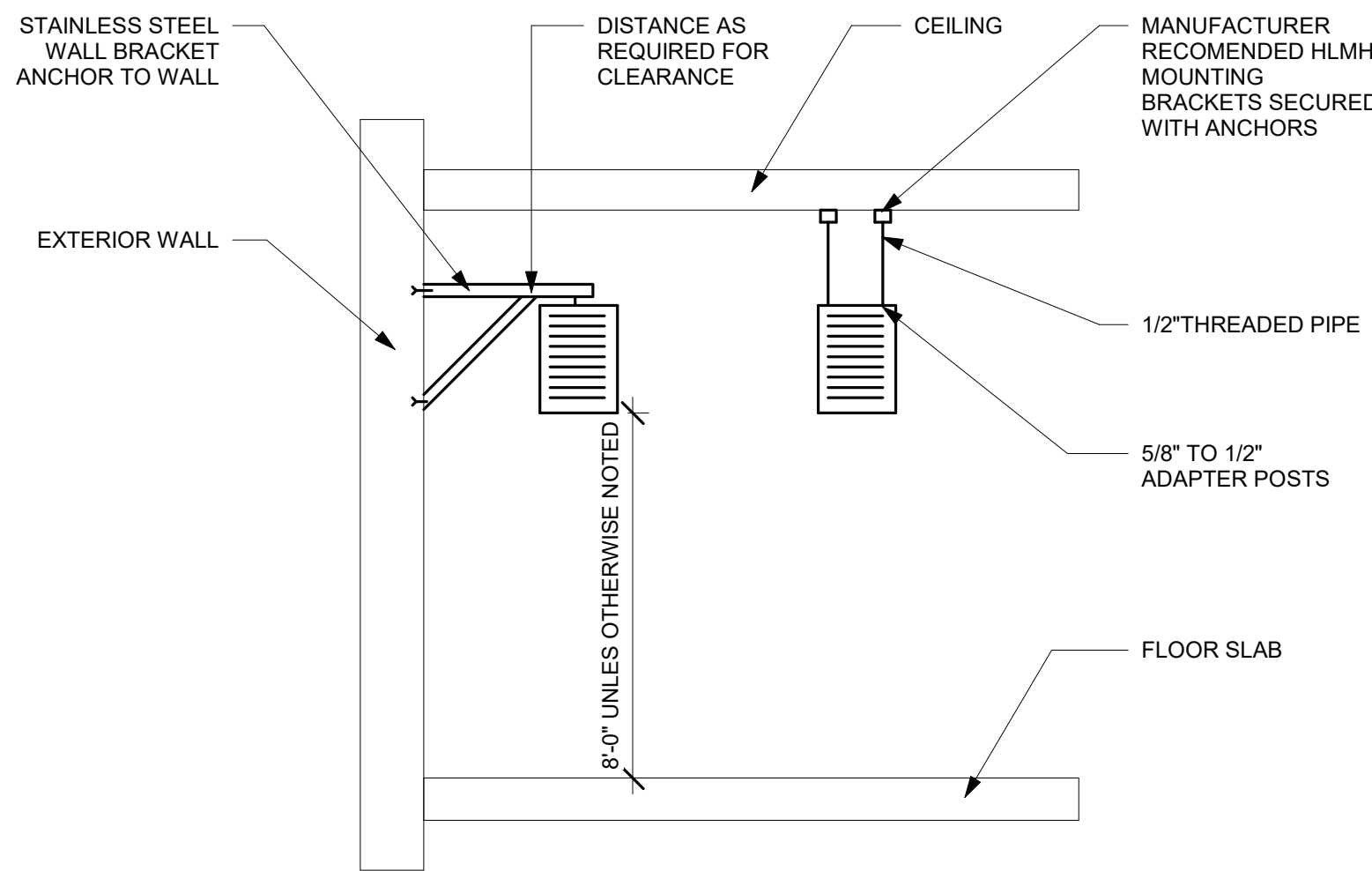


- NOTES:
1. THE DEPTH OF THE SEAL SHALL BE A MINIMUM OF THE AIR HANDLING UNITS TOTAL STATIC PRESSURE IN INCHES OF WATER PLUS 1"
 2. MANUALLY PRIME FILL TRAP PRIOR TO START-UP OF UNIT.
 3. SPILL DRAIN LINE TO ROOF
 4. CONDENSATE LINES FOR SYSTEMS SIZED 5 TONS OR LESS TO BE 1". CONDENSATE LINES FOR SYSTEMS LARGER THEN 5 TONS TO BE 1-1/4". ALL DRAIN LINES TO BE PITCHED.
 5. FOR UNITS EQUIPPED WITH SECONDARY DRAIN PANS, PROVIDE A CONDENSATE DRAIN TRAP SIMILAR TO ABOVE.

AHU/FAN COIL CONDENSATE DRAIN PIPING
1/8" = 1'-0"

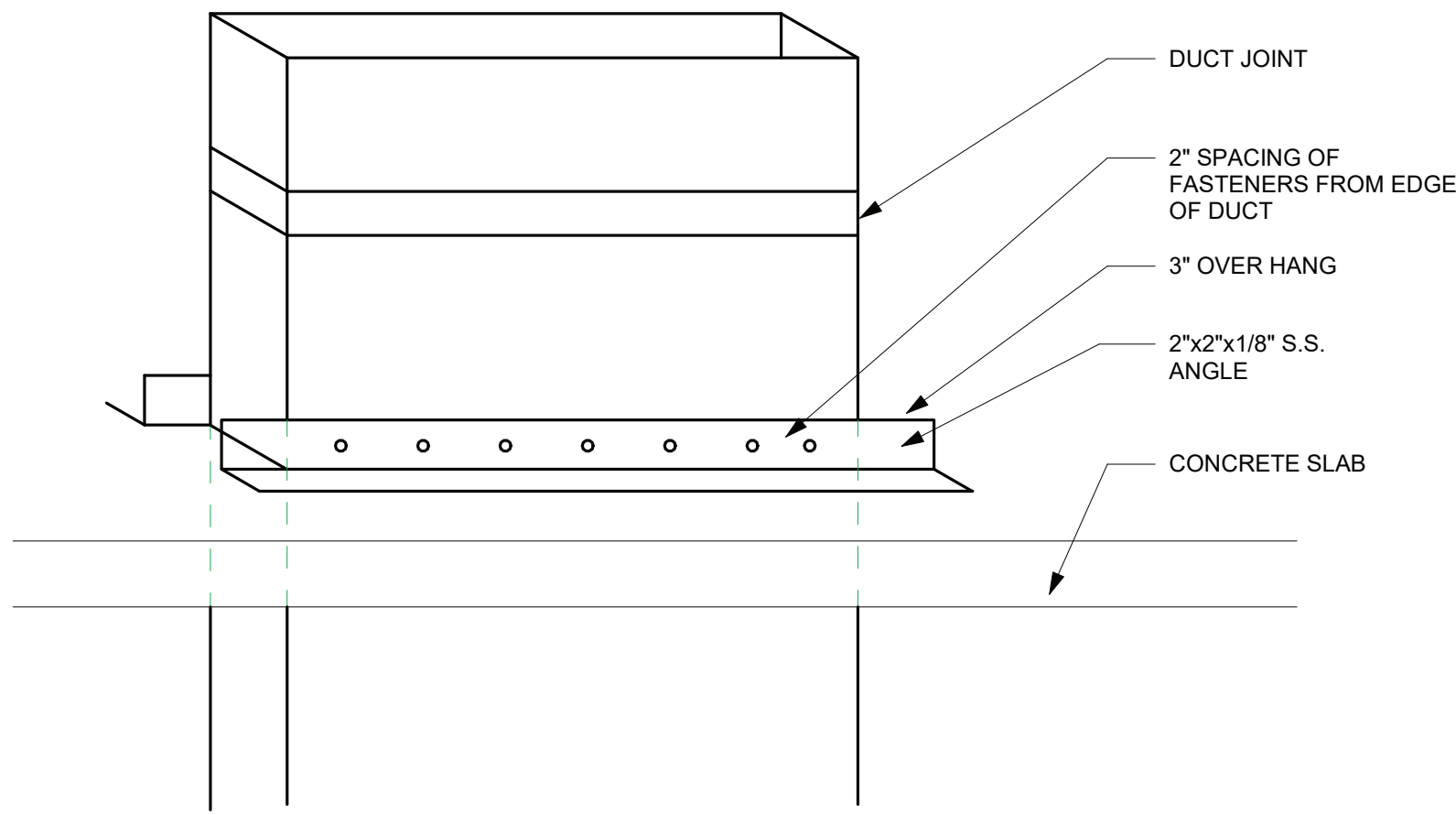


FLEXIBLE DUCT CONNECTION TO EQUIPMENT
1/8" = 1'-0"

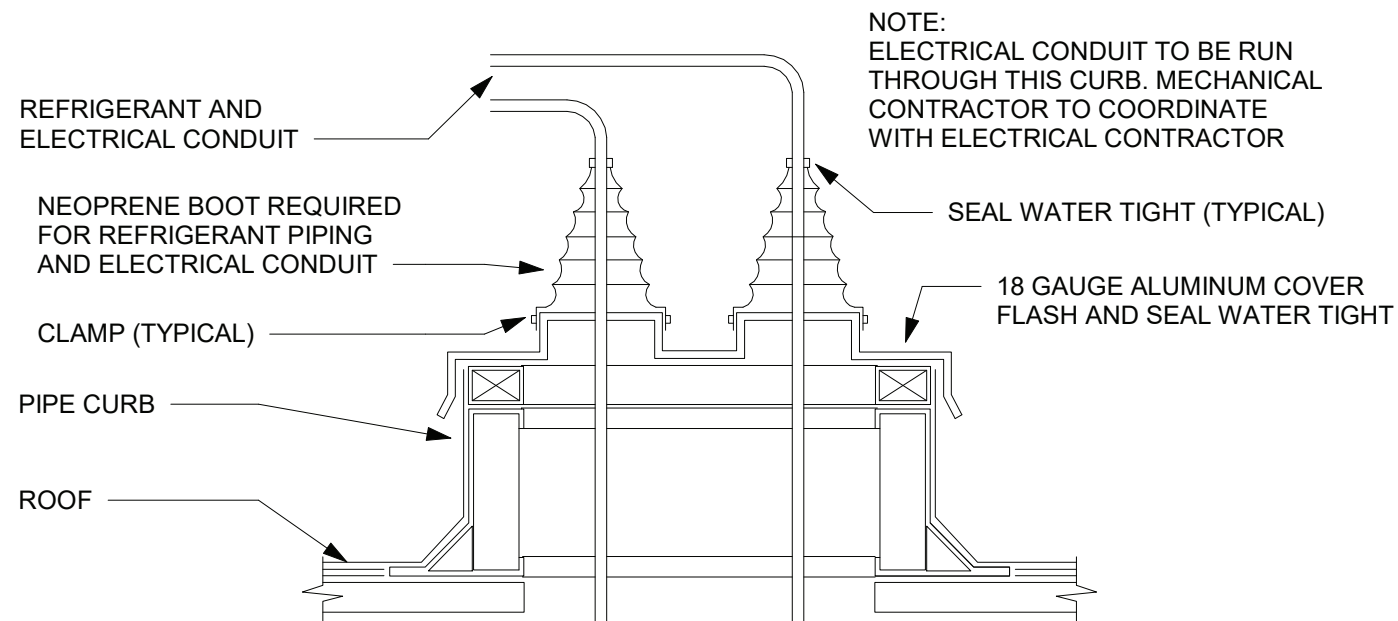


NOTES:
SUPPORT FROM WALL UNLESS OTHERWISE NOTED

ELECTRIC UNIT HEATER MOUNTING DETAIL
1/8" = 1'-0"

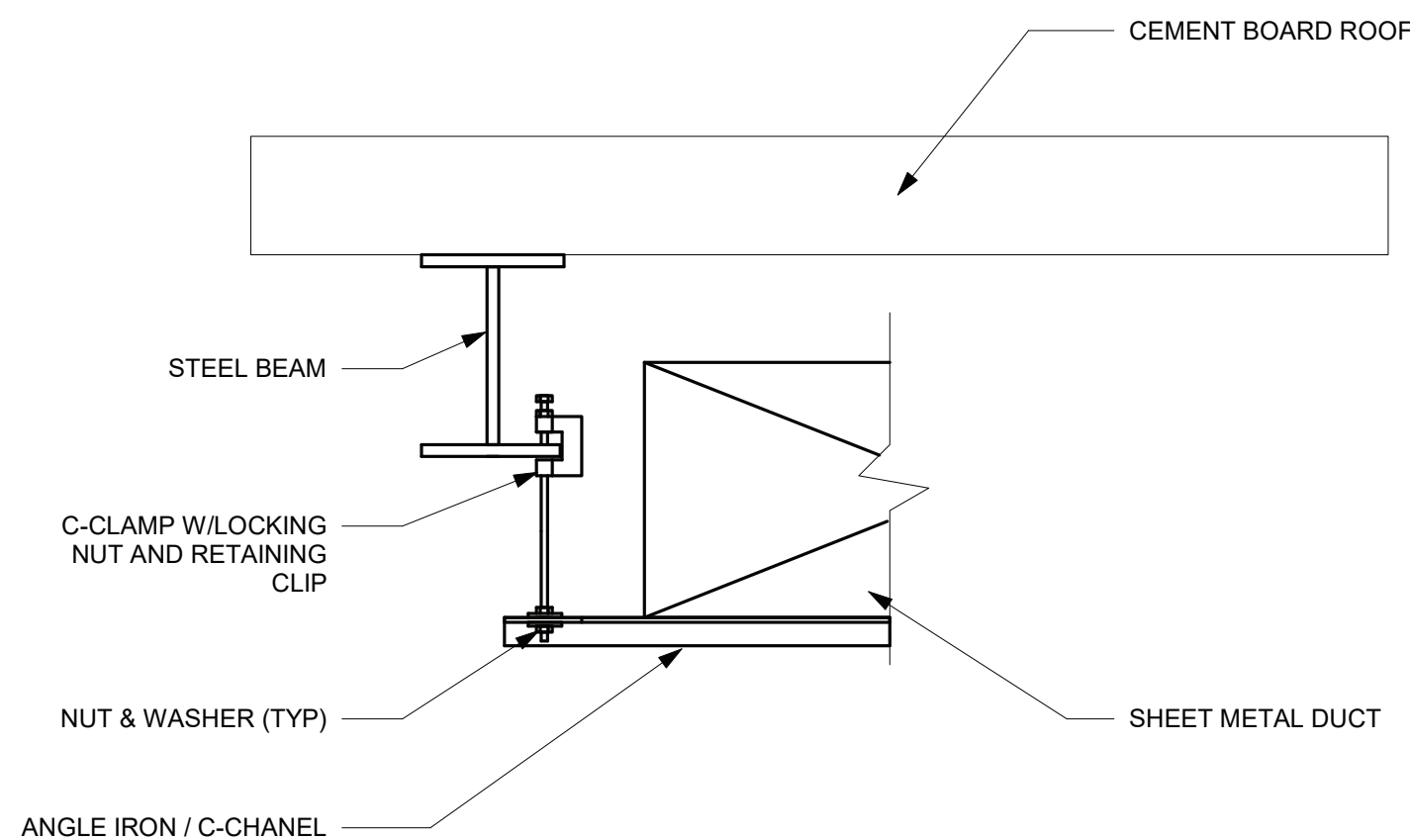


DUCT RISER SUPPORT DETAIL
1/8" = 1'-0"

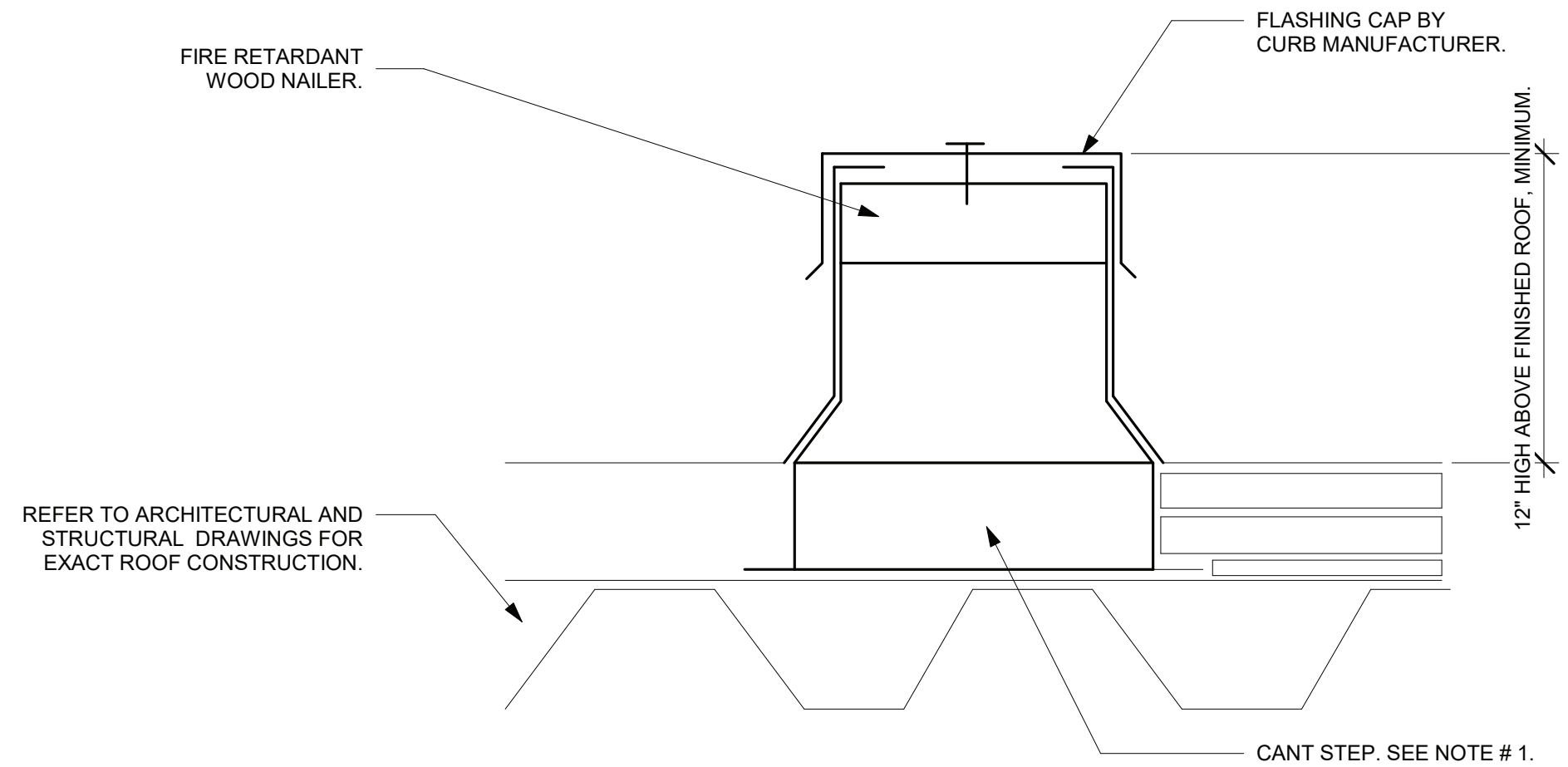


- NOTES:
1. BAND RIGID ROUND DUCT INSULATION TO DUCT AND PROVIDE TAPE FOR INSULATION OVERLAP.
 2. HVAC CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE EXISTING ROOFING WHERE NEW EQUIPMENT AND DUCT CURBS ARE TO BE SET AND WHERE NEW DUCT PENETRATIONS THROUGH THE ROOF OCCUR HVAC CONTRACTOR SHALL BE RESPONSIBLE TO CUT NEW ROOF OPENINGS FOR NEW DUCTWORK, PIPING, ETC. AFTER SETTING OF THE DUCT AND EQUIPMENT CURBS, PROVIDE NEW ROOF FLASHING AND COUNTER FLASHING. IF THE ROOF HAS BEEN INSTALLED WITHIN THE PAST 5 YEARS THE HVAC CONTRACTOR SHALL HIRE THE SERVICES OF THAT ROOFING CONTRACTOR TO INSTALL ALL CURBS AND DUCT PENETRATIONS SO NOT TO VOID ROOF GUARANTIES. COORDINATE THE ABOVE WITH THE OWNER AND THE ARCHITECT.

PIPE CURB DETAIL
1/8" = 1'-0"

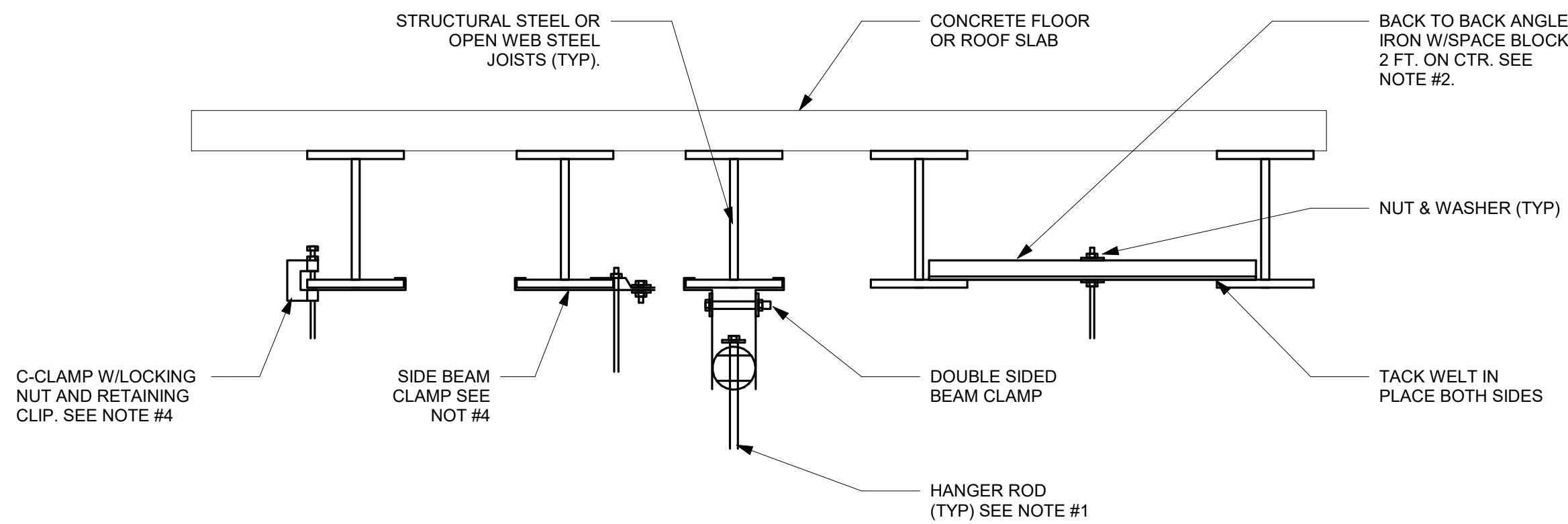


DUCT HANGER DETAIL - CHANNEL
1/8" = 1'-0"



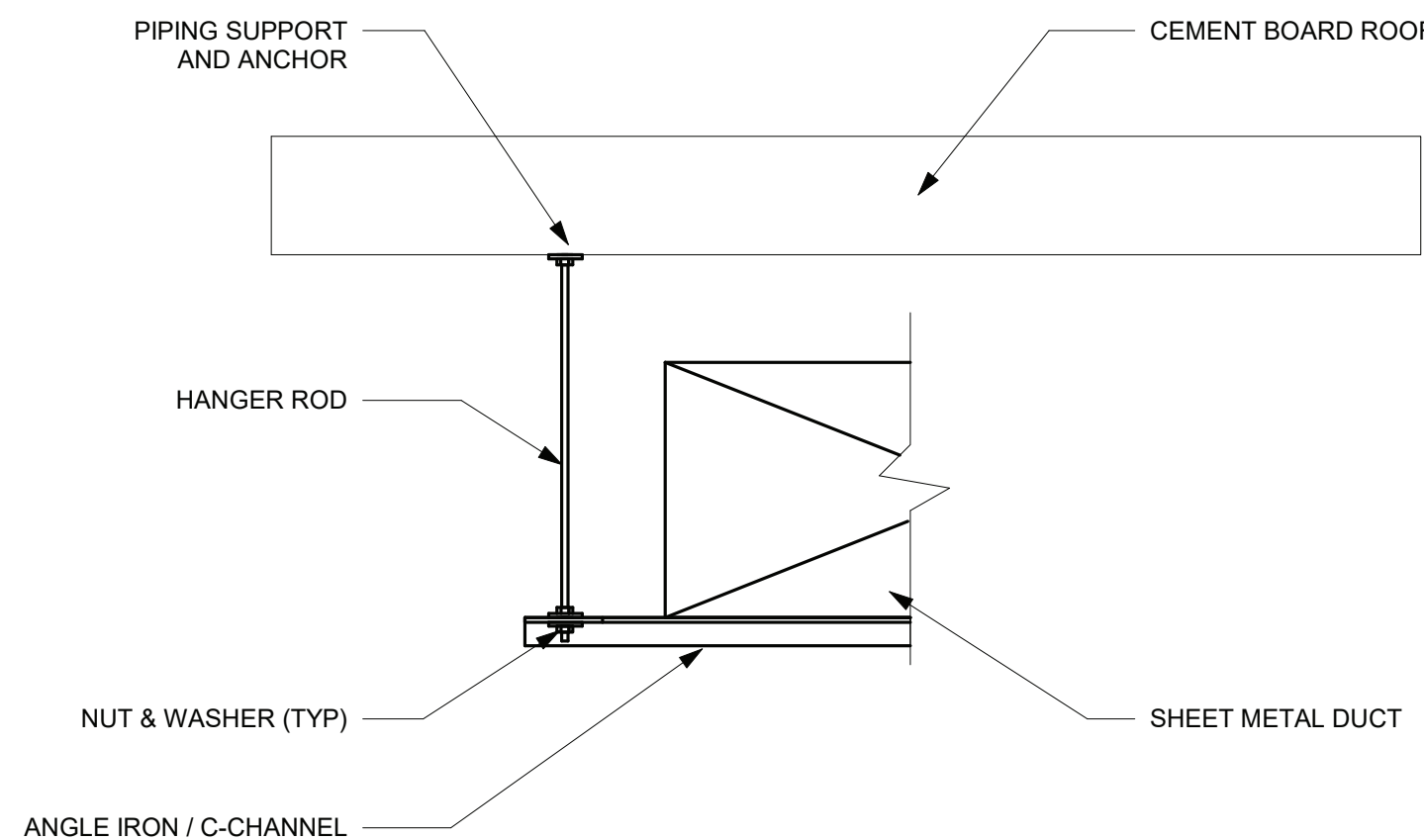
- NOTES:
1. THE RAISED CANT STEP HEIGHT SHALL BE COORDINATED WITH THICKNESS OF ROOF INSULATION ON ARCHITECTURAL DRAWINGS. IN LIEU OF A SUPPORT CURB WITH A RAISED CANT, PROVIDE CONTINUOUS FIRE RETARDANT BLOCKING, UNDER THE RAIL, AND RAISE THE RAIL TO ACCOMMODATE THE THICKNESS OF THE ROOF INSULATION. SECURE BLOCKING TO THE ROOF STRUCTURE AND RAIL TO THE BLOCKING WITH LOAD RATED, RUSTPROOF FASTENERS.
 2. THE EQUIPMENT RAIL SHALL BE DESIGNED AND FABRICATED TO THOROUGHLY SUPPORT ITS RESPECTIVE PIECE OF EQUIPMENT. AS A MINIMUM, EQUIPMENT RAILS SHALL BE FABRICATED OF 18 GAUGE GALVANIZED STEEL WITH BUILT-IN CANT, MONOLITHIC CONSTRUCTION WITH INTEGRAL BASE PLATE AND CONTINUOUS MITERED AND WELDED CORNER SEAMS, WITH FACTORY INSTALLED FIRE RETARDANT WOOD NAILER. EACH EQUIPMENT RAIL SHALL INCLUDE A MATCHING 18 GAUGE GALVANIZED STEEL COUNTERFLASHING CAP WITH INTEGRAL DRIP EDGE, ALL CORNERS MITERED AND WELDED, AND SCREWS FOR ATTACHMENT. EQUIPMENT CURBS OVER 3 FEET LONG SHALL INCORPORATE 14 GAUGE INTERNAL GUSSET REINFORCING. SECURELY FASTEN TO ROOF DECK AND INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. THE UNIT/PIPING/DUCTWORK SHALL BE INSTALLED LEVEL AND PLUMB.

PREFAB EQUIPMENT SUPPORT RAIL
1/8" = 1'-0"



- NOTES:
1. REFER TO PIPE HANGER DETAIL FOR HANGER ROD SIZE. FOR CEILING SUSPENDED EQUIPMENT PROVIDE MIN. 3/8" DIA. HANGER ROD (REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS).
 2. FOR PIPES UNDER 2" US A SINGLE 1-1/2"x1-1/2"x1/4" ANGLE IRON WITH C-CLAMP. FOR PIPES 2-1/2" AND LARGER USE 3"x2"x1/4" ANGLE IRON BACK TO BACK AS SHOWN.
 3. REPAIR OF FIRE PROOFING IN ORDER TO FACILITATE THE INSTALLATION OF HANGER RODS IN EXISTING C ONSTRUCTION SHALL BE BY THE CONTRACTOR.
 4. USE OF C-CLAMPS AND SIDE BEAM CLAMPS LIMITED TO PIPING 2-1/2" AND UNDER.

TYPICAL METHODS OF SECURING HANGER RODS TO STRUCTURAL STEEL
1/8" = 1'-0"



DUCT HANGER DETAIL - CHANNEL 2
1/8" = 1'-0"



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PROJECT TITLE: **UNION HILL AND TALLMAN AVE PUMP STATION UPGRADE**

PROJECT LOCATION: ROCKLAND COUNTY, NEW YORK

CLIENT: ROCKLAND COUNTY SEWER DISTRICT No. 1

DRAWING TITLE: **PUMP STATION DETAILS**

CONTRACT # RFB-RC-SWR-2022-06

EDR JOB # 21213

DATE: 06/2023

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

DRAWN BY: J. ROSS

CHECKED BY: G. LYNCH

DRAWING NUMBER:

H-002

ELECTRIC UNIT HEATER SCHEDULE								
NAME	AIRFLOW RATE (CFM)	HEATING CAPACITY KW	HEATING CAPACITY MBH	VOLTAGE	AMPS	WEIGHT (LBS)	MANUFACTURER	COMMENTS
UH-1	350	5	85.3	460/3	6	27	QMARK MUH0541	-
UH-2	840	10	34.1	460/3	12.7	140	QMARK GUX10004832	1
UH-3	840	10	34.1	460/3	12.7	140	QMARK GUX10004832	1

1. UNIT HEATER SHALL BE EXPLOSION PROOF AND UL AND cUL APPROVED FOR CLASS I, DIVISION 1 AND 2, GROUP C AND D; CLASS II, DIVISIONS 1 AND 2, GROUPS E, F, AND G.

SPLIT SYSTEM AIR HANDLER SCHEDULE							
NAME	SUPPLY AIR (CFM)	COOLING CAPACITY (MBH)	V/PH/HZ	MCA (A)	MOCP (A)	WEIGHT (LBS)	MANUFACTURER
AIR HANDLER 1	5500	152.5	460/3/60	5.1	15	770	JOHNSON CONTROLS J15NLC00D4CAA2
AIR HANDLER 2	5500	152.5	460/3/60	5.1	15	770	JOHNSON CONTROLS J15NLC00D4CAA2

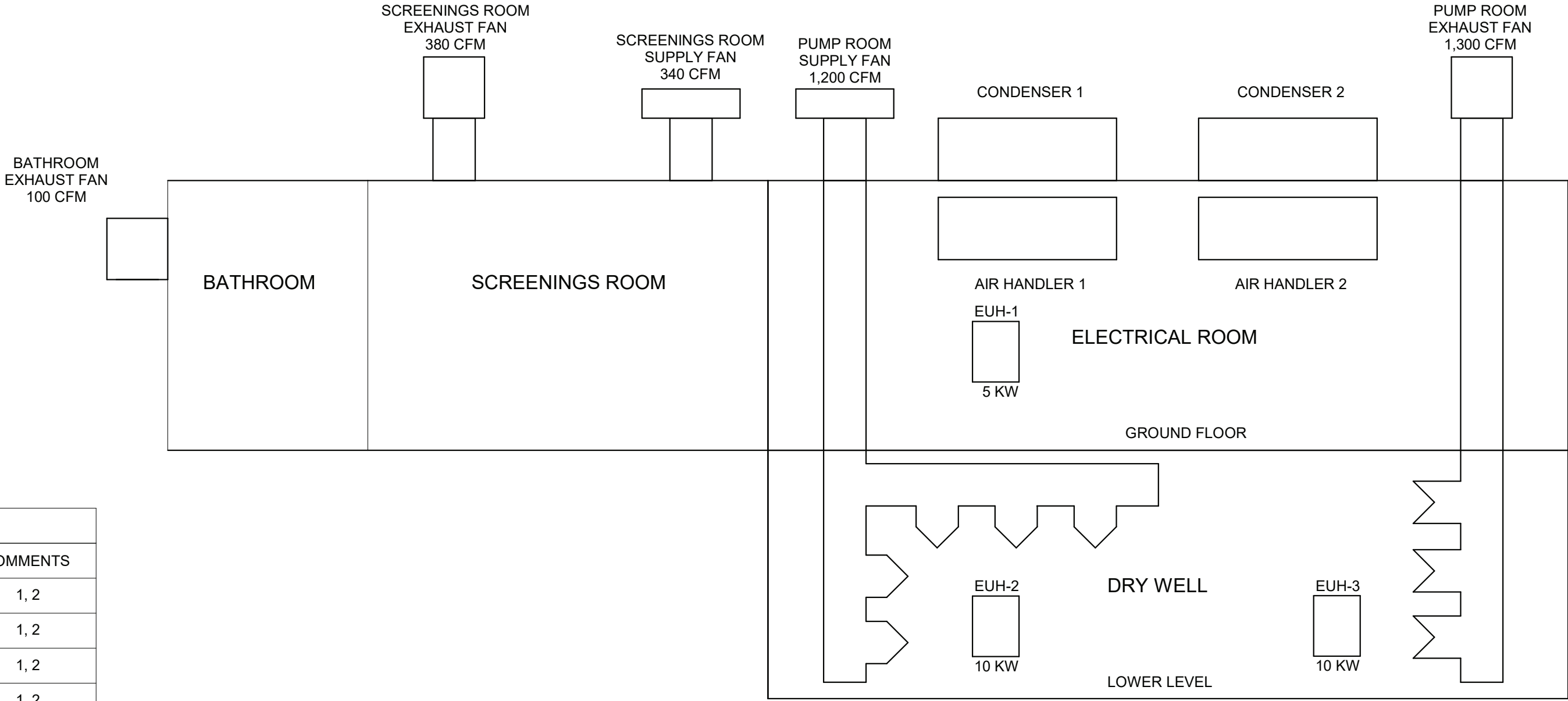
1. AIR HANDLERS TO BE PROVIDED WITH 1 GPM CONDENSATE PUMP.

SPLIT SYSTEM CONDENSER SCHEDULE							
NAME	COOLING CAPACITY (MBH)	V/PH/HZ	MCA (A)	MOCP (A)	SOUND (dBA)	WEIGHT (LBS)	MANUFACTURER
CONDENSER 1	152.5	460/3/60	27.1	35	91	499	JOHNSON CONTROLS J12YCC00A4JLA4
CONDENSER 2	152.5	460/3/60	27.1	35	91	499	JOHNSON CONTROLS J12YCC00A4JLA4

1. SPLIT SYSTEMS TO BE PROVIDED WITH SUPERVISORY CONTROLLER FOR LEAD LAG OPERATION. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

FAN SCHEDULE												
NAME	CONFIGURATION	AIRFLOW RATE (CFM)	ESP	TOTAL ESP	VOLTAGE	FEI	BHP	MOTOR HP	SOUND (dBA)	MANUFACTURER	MODEL NUMBER	COMMENTS
PUMP ROOM SUPPLY FAN	TUBULAR CENTRIFUGAL ROOF TOP	1,200	1"	-	460/3	-	.55	3/4	67	LOREN COOK	16CVR-S	1, 2
PUMP ROOM EXHAUST FAN	TUBULAR CENTRIFUGAL ROOF TOP	1,300	1"	-	460/3	-	0.60	1	68	LOREN COOK	16CVR	1, 2
SCREENINGS ROOM SUPPLY FAN	TUBULAR CENTRIFUGAL ROOF TOP	340	0.5"	-	460/3	-	0.11	1/4	53	LOREN COOK	16CVR-S	1, 2
SCREENINGS ROOM EXHAUST FAN	TUBULAR CENTRIFUGAL ROOF TOP	380	0.5"	-	460/3	-	0.12	1/4	54	LOREN COOK	16CVR	1, 2
BATHROOM EXHAUST FAN	CENTRIFUGAL UPBLAST	100	0.25"	-	120/1	-	0.02	1/15	42	GREENHECK	CUE-060-VG	1

1. FANS TO BE PROVIDED WITH FACTORY OR FIELD DISCONNECT SWITCHES WITH LOCK OUT TAG OUT FEATURE. LOCK TO BE SUPPLIED BY CONTRACTOR.
2. FANS SHALL BE SPARK B RESISTANT CONSTRUCTION.

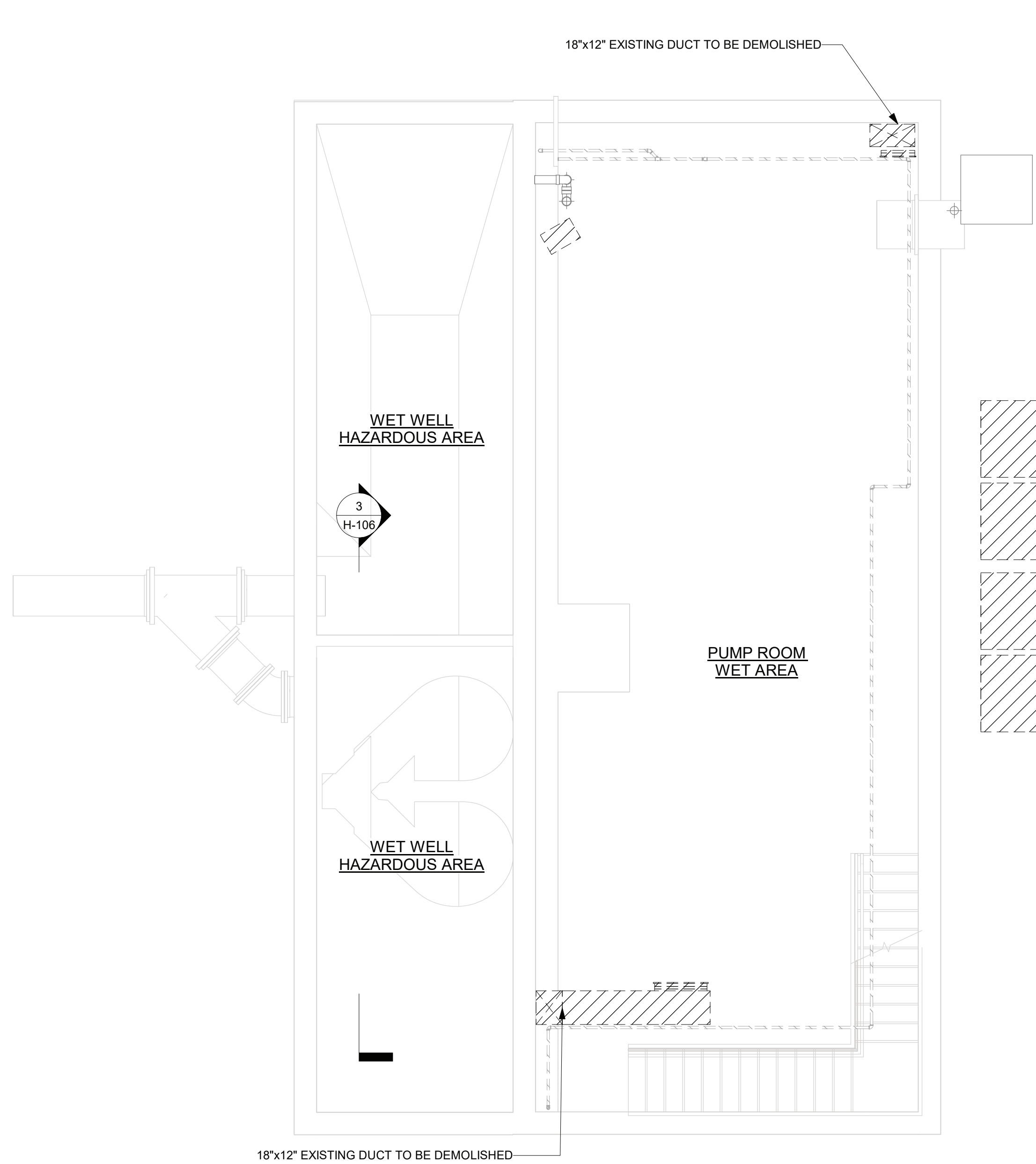


1 AIRFLOW DIAGRAM
1/2" = 1'-0"

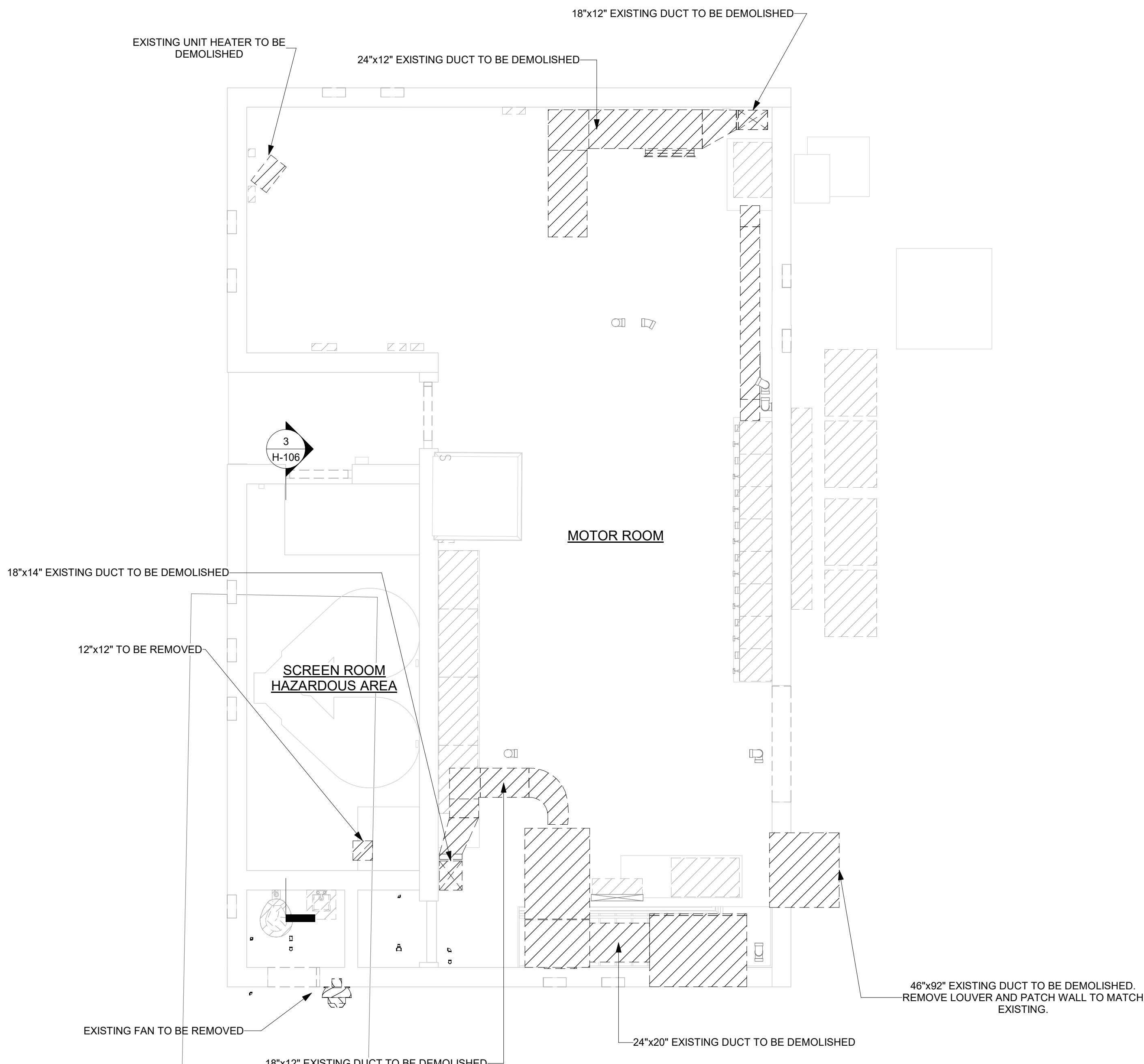


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PROJECT TITLE: UNION HILL PUMP AND TALLMAN AVE PUMP STATION UPGRADE				DRAWINGS ISSUED FOR / REVISIONS				CONTRACT #RFB-RC-SWR-2022-06			
PROJECT LOCATION: ROCKLAND COUNTY, NEW YORK				NO.	DATE	ISSUED FOR / REVISIONS			BY	CHK	APP
CLIENT: ROCKLAND COUNTY SEWER DISTRICT NO 1				1	04/22	60 PERCENT DESIGN REVIEW			LSE	JGD	GRL
DRAWING TITLE: UNION HILL PUMP STATION AIRFLOW DIAGRAM, SCHEDULES				2	07/22	90 PERCENT DESIGN REVIEW			LSE	JGD	GRL
				3	09/22	FOR REGULATORY REVIEW			LSE	JGD	GRL
				4	01/23	100 PERCENT DESIGN REVIEW			LSE	JGD	GRL
				5	03/23	100 PERCENT DESIGN REVIEW			LSE	JGD	GRL
				6	06/23	FOR BID			LSE	JGD	GRL
CONTRACT 1				EDR JOB #: 21213				DATE: 06/2023			
				SCALE: As indicated				DRAWN BY: J. ROSS			
				CHECKED BY: G. LYNCH				DRAWING NUMBER: H-101			



① HVAC LOWER LEVEL DEMOLITION PLAN
1/4" = 1'-0"



② HVAC GROUND FLOOR DEMOLITION PLAN
1/4" = 1'-0"



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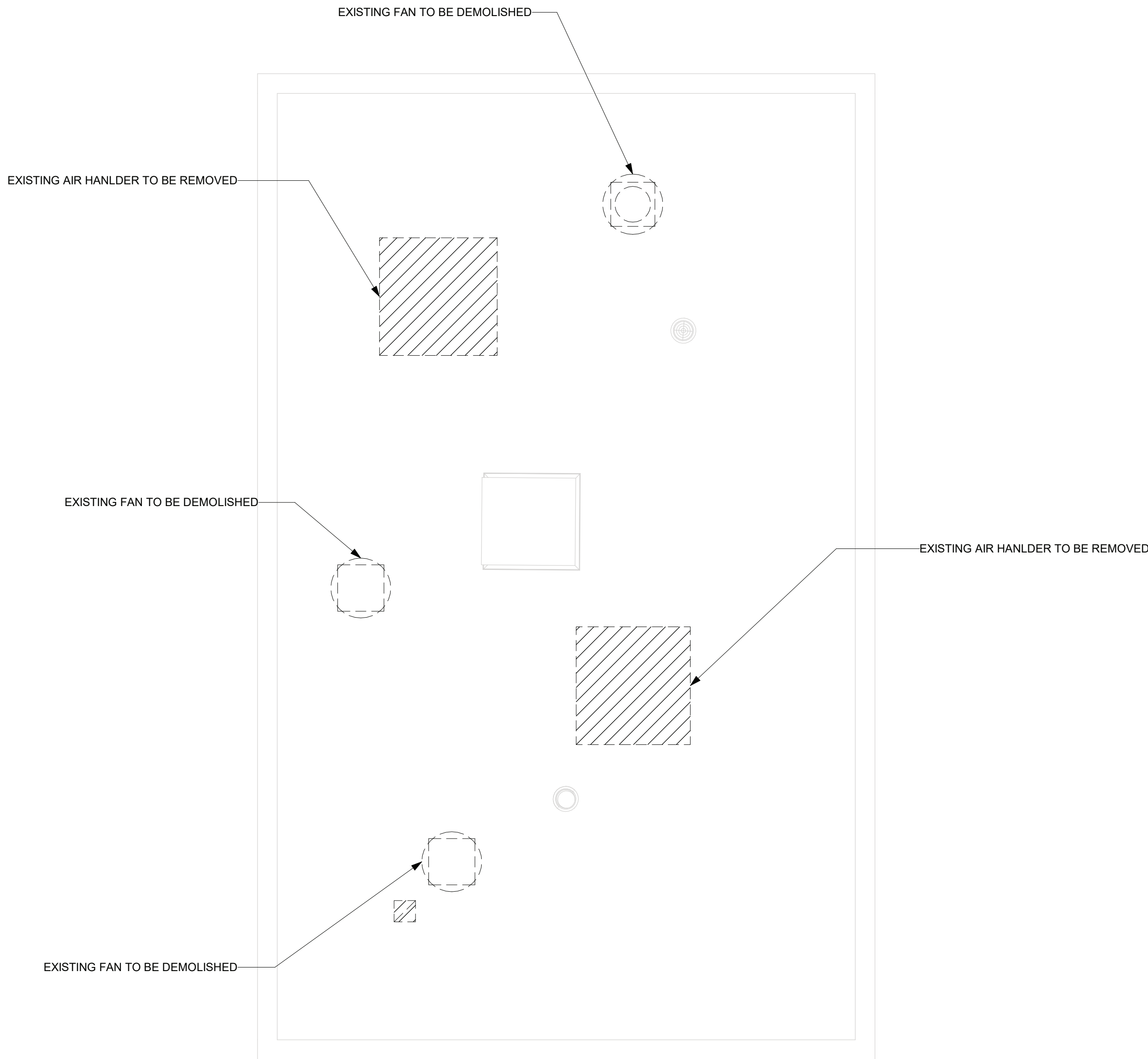
PROJECT TITLE: **UNION HILL PUMP AND TALLMAN
AVE PUMP STATION UPGRADE**

PROJECT LOCATION: ROCKLAND COUNTY, NEW YORK
CLIENT: ROCKLAND COUNTY SEWER DISTRICT NO 1

DRAWING TITLE: **UNION HILL PUMP STATION DEMOLITION LOWER AND GROUND FLOOR PLANS**

DRAWINGS ISSUED FOR / REVISIONS							CONTRACT #RFB-RC-SWR-2022-06	
NO.	DATE	ISSUED FOR / REVISIONS	BY	CHK	APP	DATE	EDR JOB # 21213	
1	04/22	60 PERCENT DESIGN REVIEW	LSE	JGD	GRL	06/2023	SCALE: 1/4" = 1'-0"	
2	07/22	90 PERCENT DESIGN REVIEW	LSE	JGD	GRL		DRAWN BY: J. ROSS	
3	09/22	FOR REGULATORY REVIEW	LSE	JGD	GRL		CHECKED BY: G. LYNCH	
4	01/23	100 PERCENT DESIGN REVIEW	LSE	JGD	GRL		DRAWING NUMBER:	
5	03/23	100 PERCENT DESIGN REVIEW	LSE	JGD	GRL		H-102	
6	06/23	FOR BID	LSE	JGD	GRL			

CONTRACT
1



① HVAC ROOF DEMOLITION PLAN
1/4" = 1'-0"



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PROJECT TITLE: **UNION HILL PUMP AND TALLMAN
AVE PUMP STATION UPGRADE**

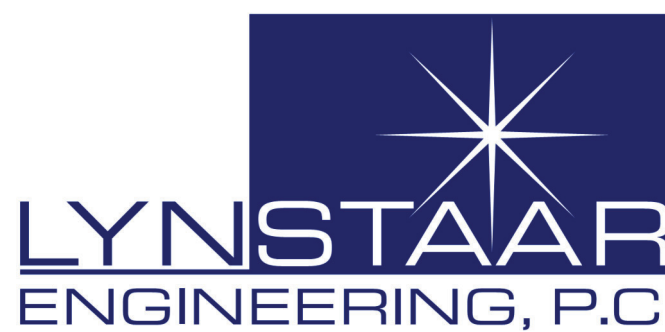
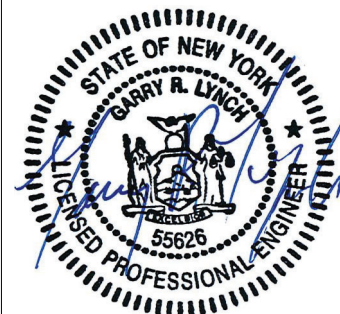
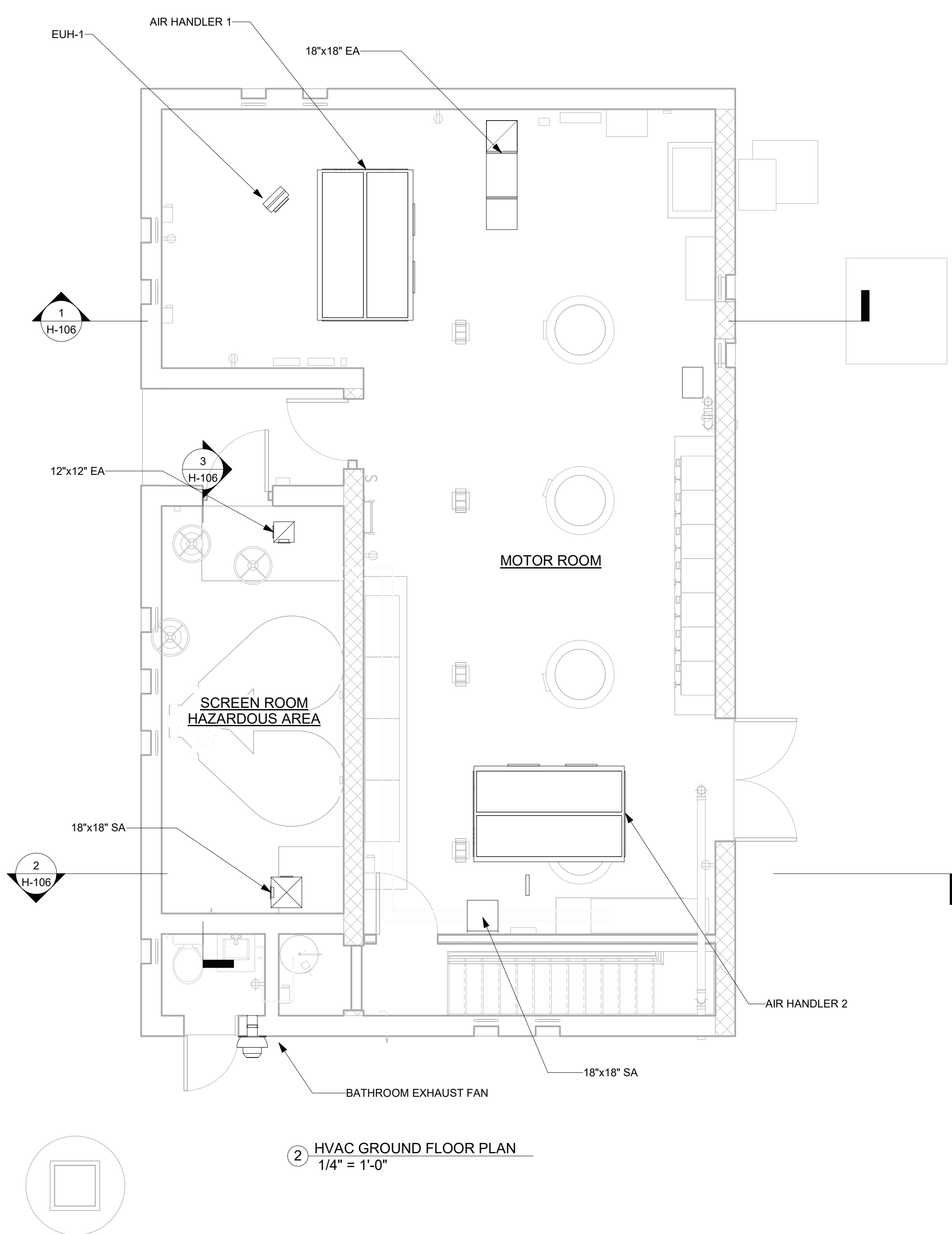
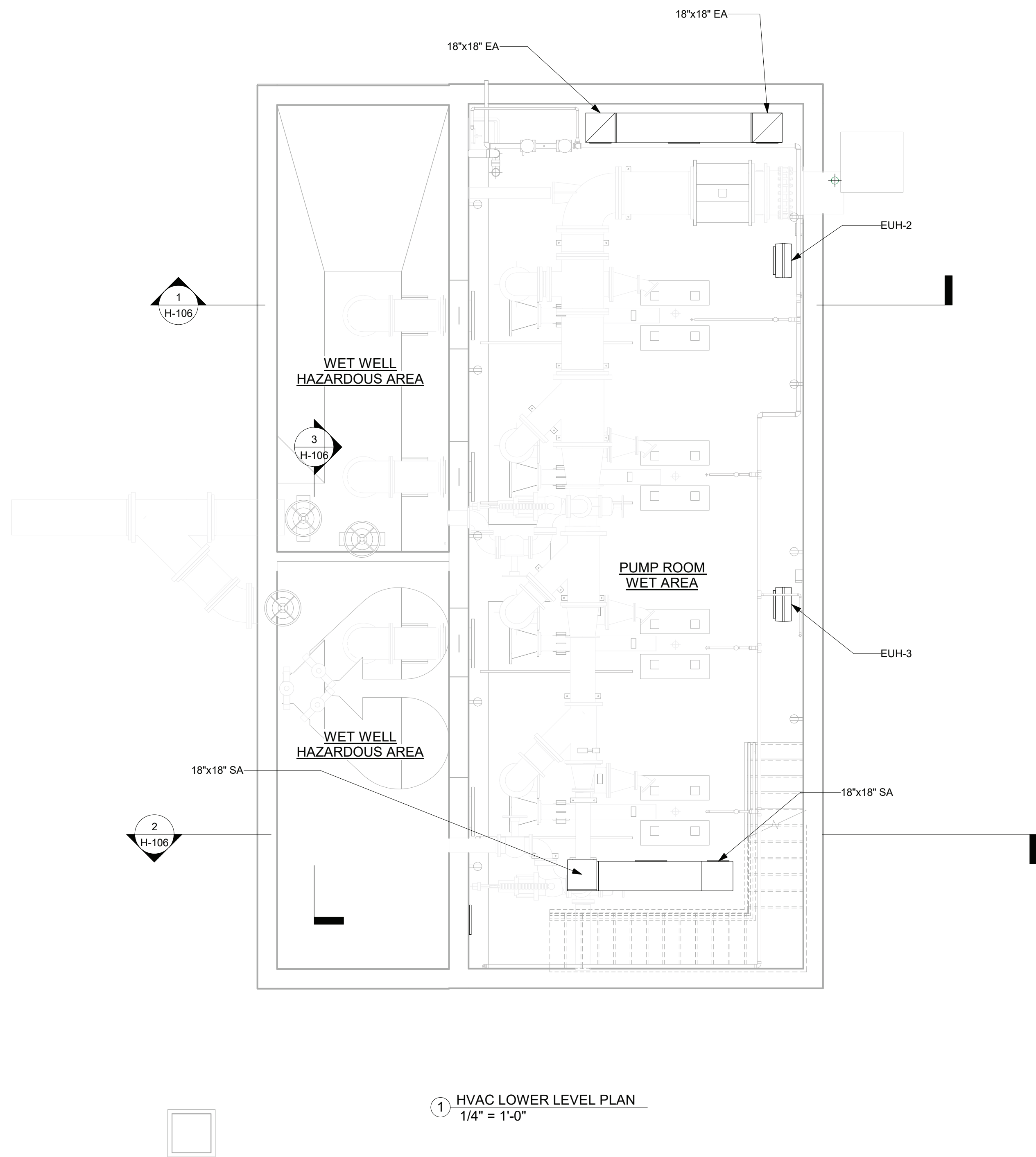
PROJECT LOCATION: ROCKLAND COUNTY, NEW YORK

CLIENT: ROCKLAND COUNTY SEWER DISTRICT NO 1

DRAWING TITLE: **UNION HILL PUMP STATION DEMOLITION ROOF PLAN**

DRAWINGS ISSUED FOR / REVISIONS							CONTRACT #RFB-RC-SWR-2022-06	
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6	06/23	FOR BID			LSE	JGD	GRL	H-103

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1



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PROJECT TITLE: **UNION HILL PUMP AND TALLMAN
AVE PUMP STATION UPGRADE**

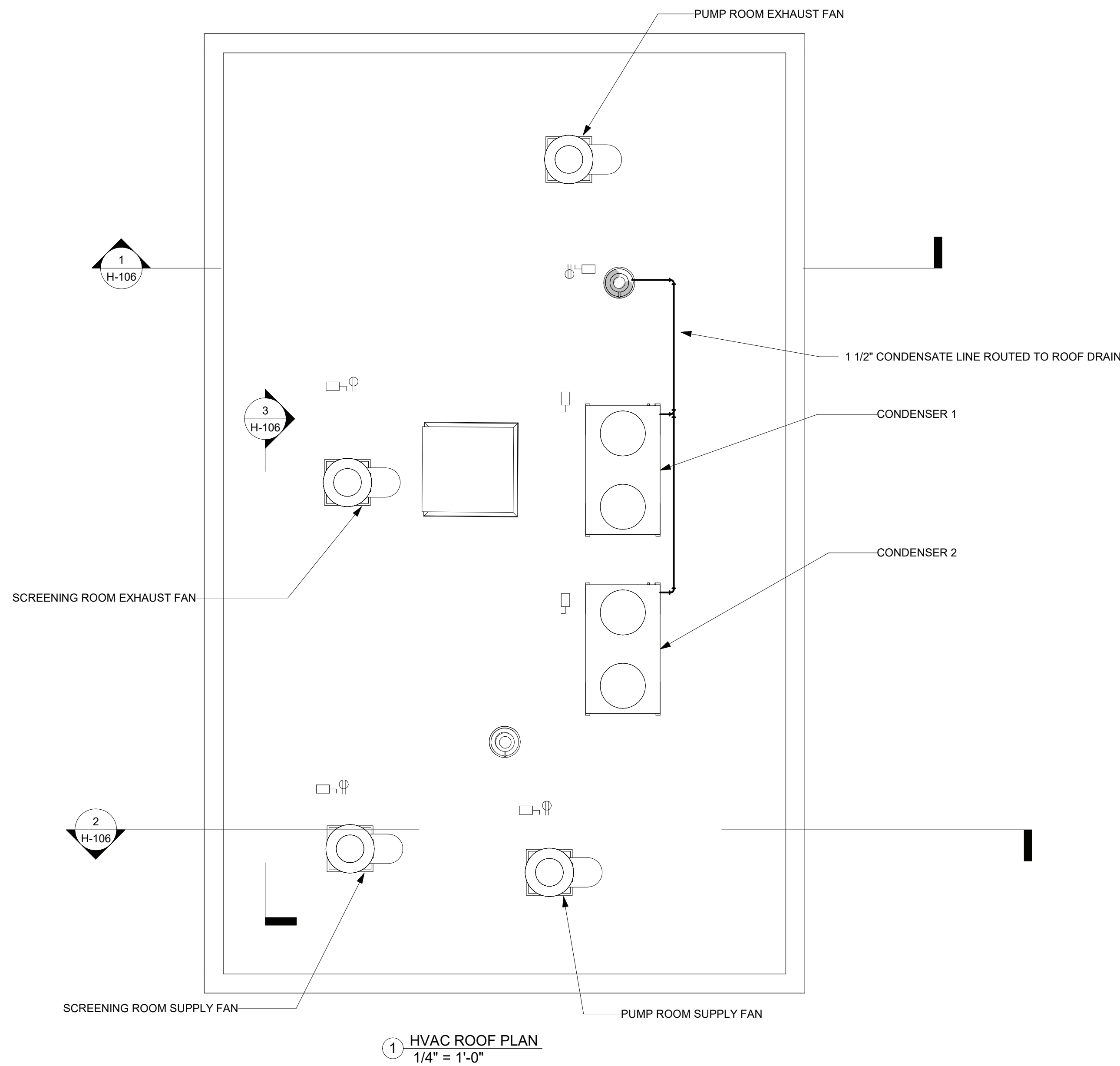
PROJECT LOCATION: ROCKLAND COUNTY, NEW YORK

CLIENT: ROCKLAND COUNTY SEWER DISTRICT NO 1

DRAWING TITLE: **UNION HILL PUMP STATION LOWER AND GROUND FLOOR PLANS**

DRAWINGS ISSUED FOR / REVISIONS							CONTRACT #RFB-RC-SWR-2022-06	
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5	03/23	100 PERCENT DESIGN REVIEW	LSE	JGD	GRL		H-104	
6	06/23	FOR BID	LSE	JGD	GRL			

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PROJECT TITLE: **UNION HILL PUMP AND TALLMAN
AVE PUMP STATION UPGRADE**

PROJECT LOCATION: ROCKLAND COUNTY, NEW YORK

CLIENT: ROCKLAND COUNTY SEWER DISTRICT NO 1

DRAWING TITLE: **UNION HILL PUMP STATION ROOF PLAN**

DRAWINGS ISSUED FOR / REVISIONS						CONTRACT	
NO.	DATE	ISSUED FOR / REVISIONS	BY	CHK	APP	1	1
1	04/22	60 PERCENT DESIGN REVIEW	LSE	JGD	GRL		
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6	06/23	FOR BID	LSE	JGD	GRL		

EDR JOB #: 21213

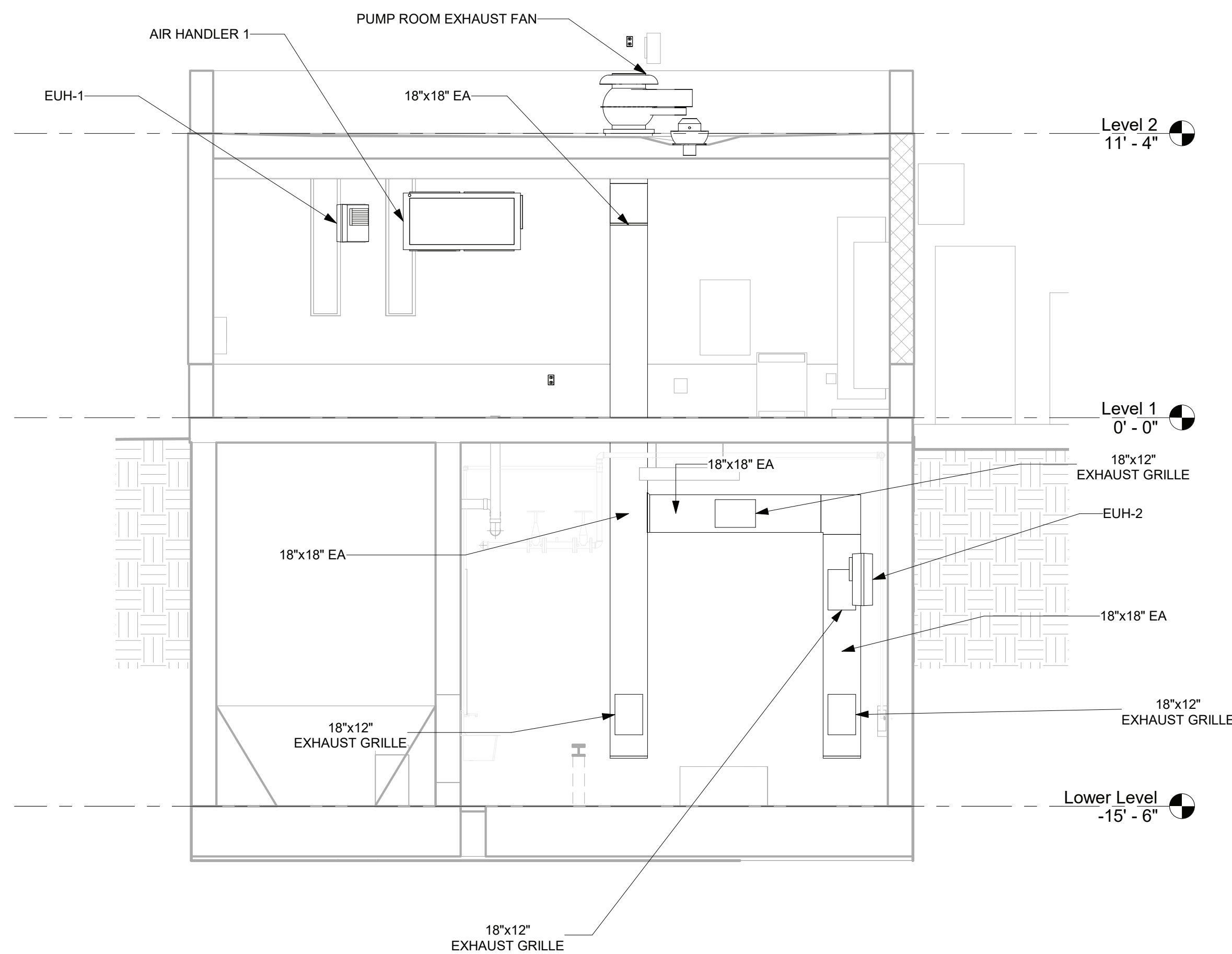
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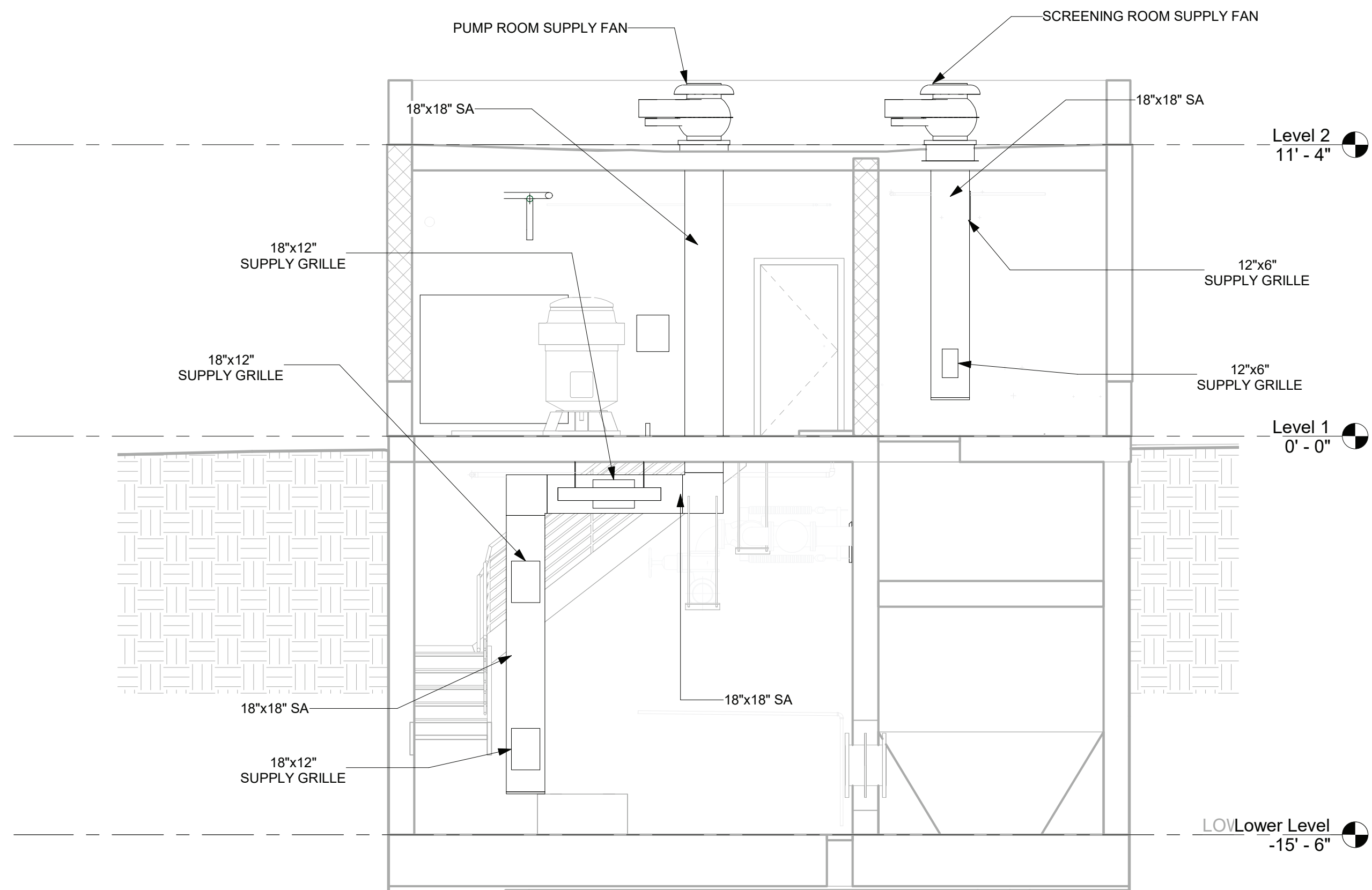
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CHECKED BY: G. LYNCH

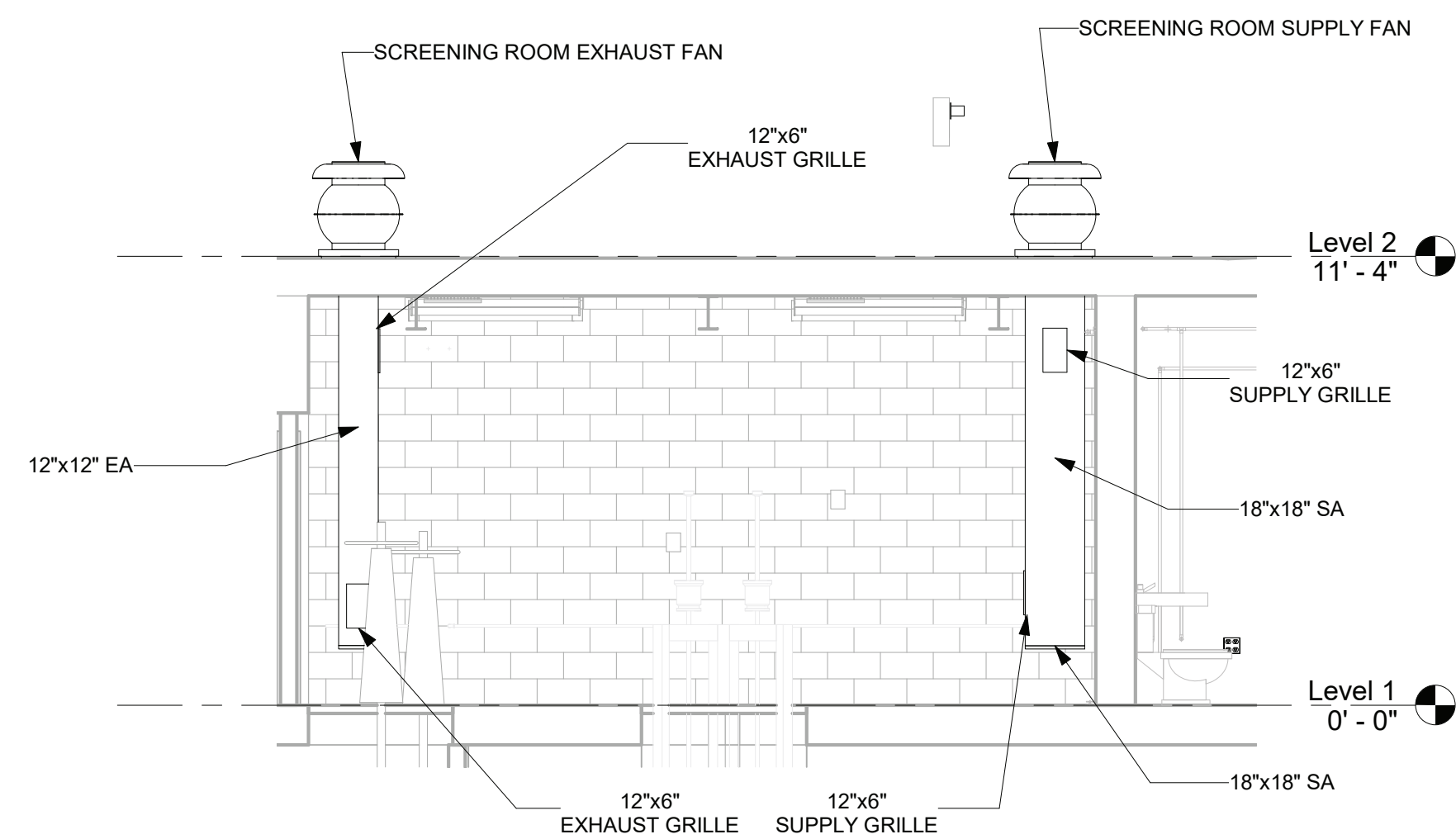
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① HVAC SECTION 1
1/4" = 1'-0"



② HVAC SECTION 2
1/4" = 1'-0"



③ SCREENINGS ROOM HVAC SECTION
1/4" = 1'-0"

1/4"=1'-0" 0 4 8 FT.



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PROJECT TITLE: **UNION HILL PUMP AND TALLMAN
AVE PUMP STATION UPGRADE**

PROJECT LOCATION: ROCKLAND COUNTY, NEW YORK

CLIENT: ROCKLAND COUNTY SEWER DISTRICT NO 1

DRAWING TITLE: **UNION HILL PUMP STATION SECTIONS**

DRAWINGS ISSUED FOR / REVISIONS

NO.	DATE	ISSUED FOR / REVISIONS	BY	CHK	APP	DATE
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4	01/23	100 PERCENT DESIGN REVIEW	LSE	JGD	GRL	CHECKED BY: G. LYNCH
5	03/23	100 PERCENT DESIGN REVIEW	LSE	JGD	GRL	DRAWING NUMBER:
6	06/23	FOR BID	LSE	JGD	GRL	H-106

CONTRACT
1

CONTRACT #RFB-RC-SWR-2022-06
EDR JOB #: 21213

ELECTRIC UNIT HEATER SCHEDULE								
NAME	AIRFLOW RATE (CFM)	HEATING CAPACITY KW	HEATING CAPACITY MBH	VOLTAGE	AMPS	WEIGHT (LBS)	MANUFACTURER	COMMENTS
UH-1	350	5	85.3	460/3	6	27	QMARK MUH0541	1
UH-2	840	10	34.1	460/3	12.7	140	QMARK GUX10004832	1
UH-3	840	10	34.1	460/3	12.7	140	QMARK GUX10004832	1

1. UNIT HEATER SHALL BE EXPLOSION PROOF AND UL AND cUL APPROVED FOR CLASS I, DIVISION 1 AND 2, GROUP C AND D; CLASS II, DIVISIONS 1 AND 2, GROUPS E, F, AND G.

SPLIT SYSTEM AIR HANDLER SCHEDULE							
NAME	SUPPLY AIR (CFM)	COOLING CAPACITY (MBH)	V/PH/HZ	MCA (A)	MOCP (A)	WEIGHT (LBS)	MANUFACTURER
AIR HANDLER 1	5500	152.5	460/3/60	5.1	15	770	JOHNSON CONTROLS J15NLC00D4CAA2
AIR HANDLER 2	5500	152.5	460/3/60	5.1	15	770	JOHNSON CONTROLS J15NLC00D4CAA2

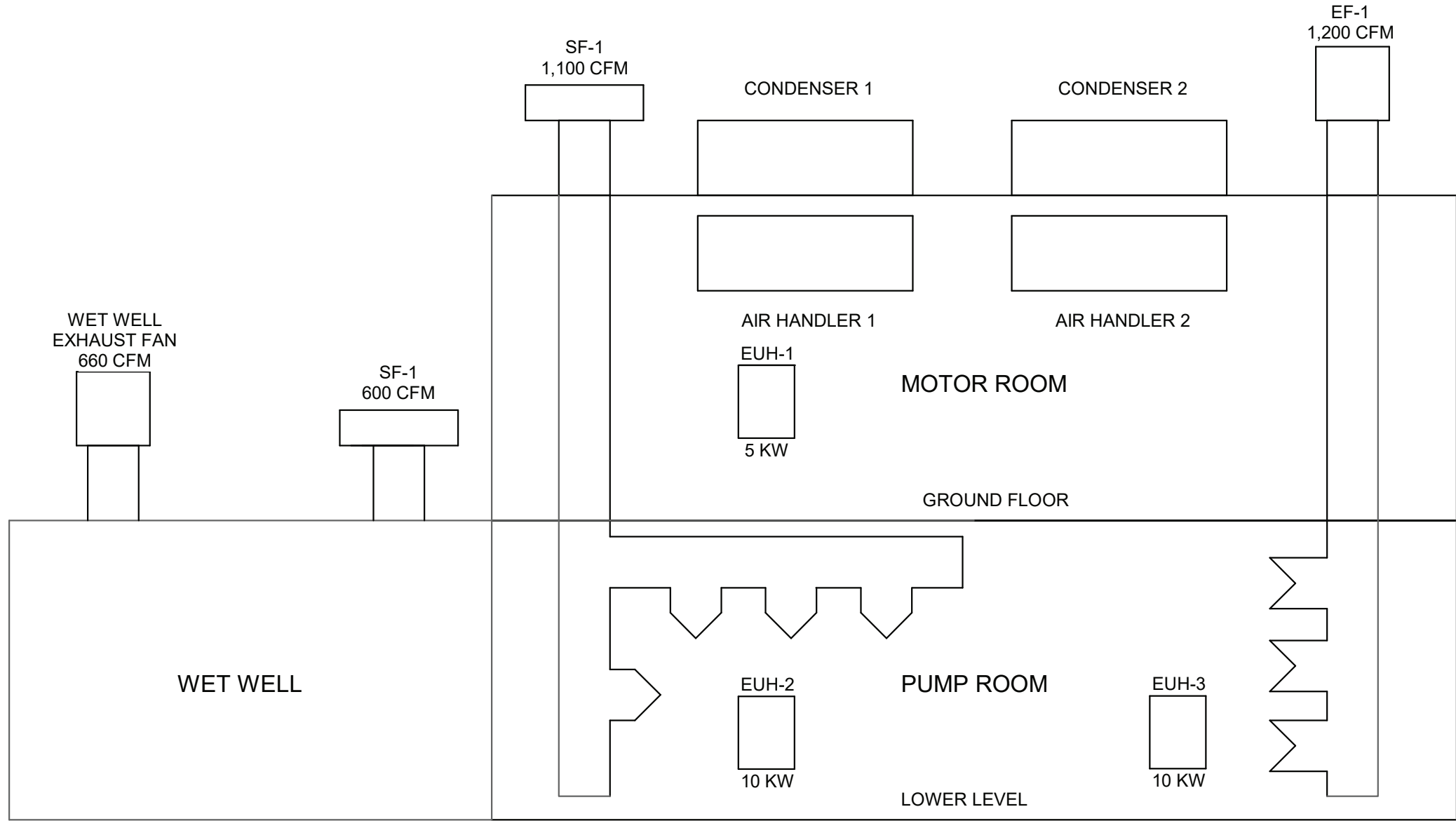
1. AIR HANDLERS TO BE PROVIDED WITH 1 GPM CONDENSATE PUMP.

SPLIT SYSTEM CONDENSER SCHEDULE							
NAME	COOLING CAPACITY (MBH)	V/PH/HZ	MCA (A)	MOCP (A)	SOUND (dBA)	WEIGHT (LBS)	MANUFACTURER
CONDENSER 1	152.5	460/3/60	27.1	35	91	499	JOHNSON CONTROLS J12YCC00A4JLA4
CONDENSER 1	152.5	460/3/60	27.1	35	91	499	JOHNSON CONTROLS J12YCC00A4JLA4

1. SPLIT SYSTEMS TO BE PROVIDED WITH SUPERVISORY CONTROLLER FOR LEAD LAG OPERATION. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

FAN SCHEDULE												
NAME	CONFIGURATION	AIRFLOW RATE (CFM)	ESP	TOTAL ESP	VOLTAGE	FEI	BHP	MOTOR HP	SOUND (dBA)	MANUFACTURER	MODEL NUMBER	COMMENTS
PUMP ROOM SUPPLY FAN	TUBULAR CENTRIFUGAL ROOF TOP	1,100	1"	-	460/3	-	0.55	3/4	67	LOREN COOK	16CVR-S	1, 2
PUMP ROOM EXHAUST FAN	TUBULAR CENTRIFUGAL ROOF TOP	1,200	1"	-	460/3	-	0.55	3/4	67	LOREN COOK	16CVR	1, 2
WET WELL SUPPLY FAN	TUBULAR CENTRIFUGAL ROOF TOP	600	0.5"	-	460/3	-	0.15	1/4	56	LOREN COOK	16CVR-S	1, 2
WET WELL EXHAUST FAN	TUBULAR CENTRIFUGAL ROOF TOP	660	0.5"	-	460/3	-	0.14	1/4	56	LOREN COOK	16CVR	1, 2

1. FANS TO BE PROVIDED WITH FACTORY OR FIELD DISCONNECT SWITCHES WITH LOCK OUT TAG OUT FEATURE. LOCK TO BE SUPPLIED BY CONTRACTOR.
2. FANS SHALL BE SPARK B RESISTANT CONSTRUCTION.



① AIRFLOW DIAGRAM
1/2" = 1'-0"



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PROJECT TITLE: **UNION HILL AND TALLMAN AVE
PUMP STATION UPGRADE**

PROJECT LOCATION: ROCKLAND COUNTY, NEW YORK

CLIENT: ROCKLAND COUNTY SEWER DISTRICT No. 1

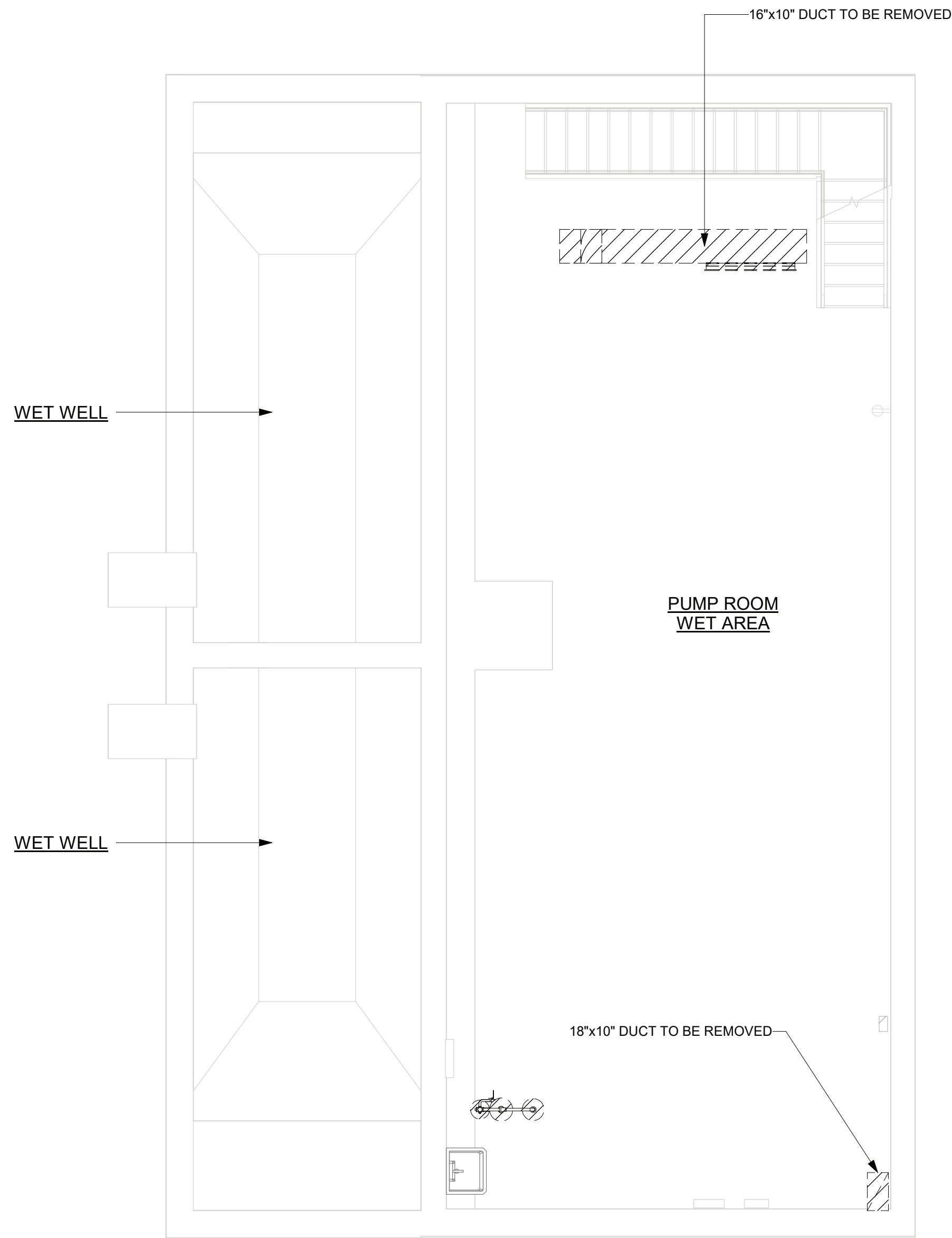
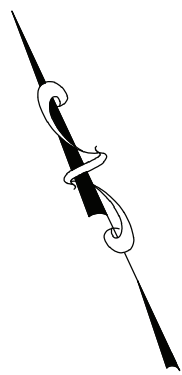
DRAWING TITLE: **TALLMAN PUMP STATION AIR FLOW DIAGRAMS, SCHEDULES**

DRAWINGS ISSUED FOR / REVISIONS

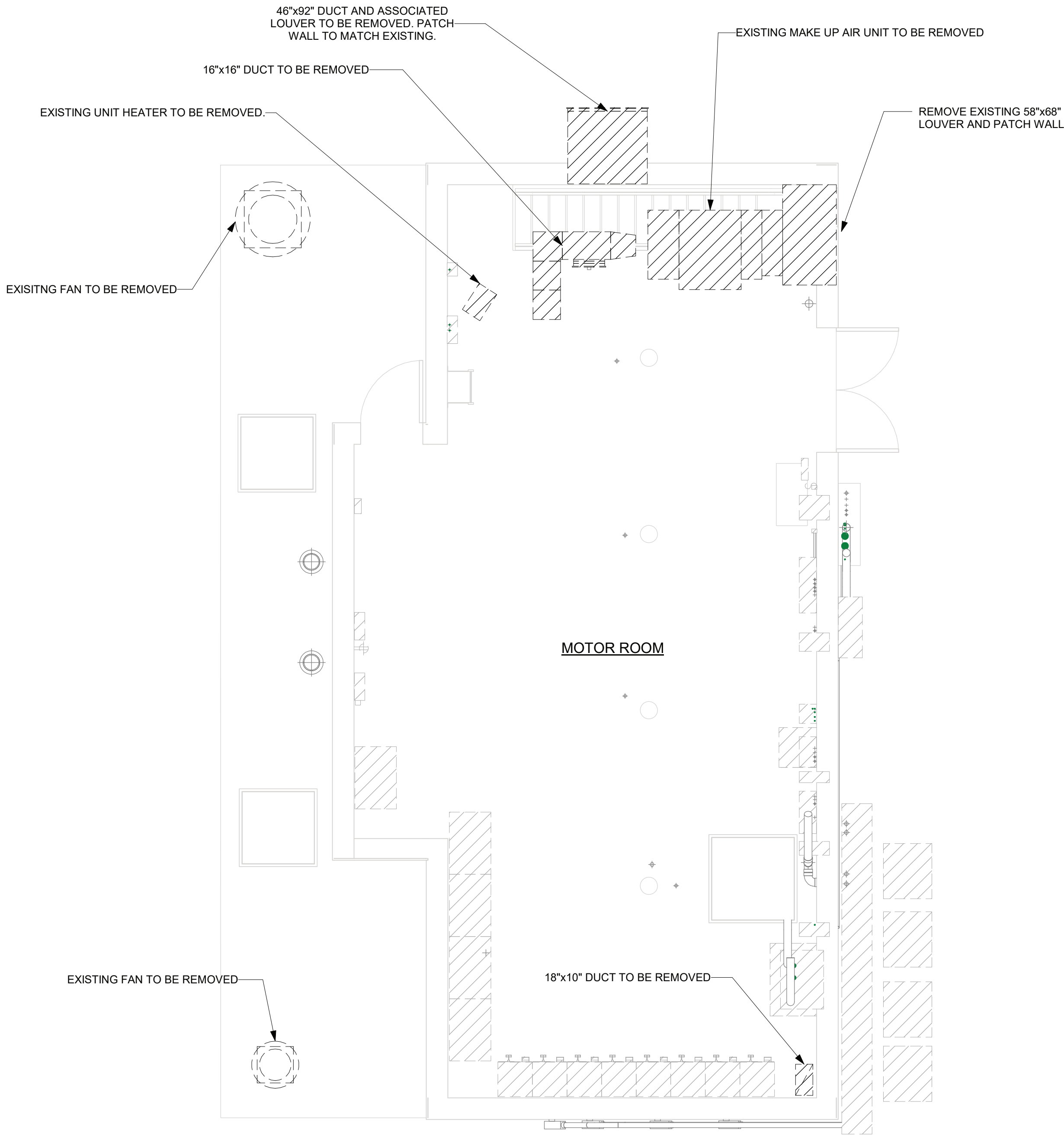
NO.	DATE	ISSUED FOR / REVISIONS	BY	CHK	APP	DATE
1	04/22	60 PERCENT DESIGN REVIEW	MJL	JGD	GRL	06/2023
2	07/22	90 PERCENT DESIGN REVIEW	MJL	JGD	GRL	SCALE: As indicated
3	09/22	FOR REGULATORY REVIEW	MJL	JGD	GRL	DRAWN BY: J. ROSS
4	01/23	100 PERCENT DESIGN REVIEW	MJL	JGD	GRL	CHECKED BY: G. LYNCH
5	03/23	100 PERCENT DESIGN REVIEW	MJL	JGD	GRL	DRAWING NUMBER:
6	06/23	FOR BID	MJL	JGD	GRL	H-201

CONTRACT # RFB-RC-SWR-2022-06

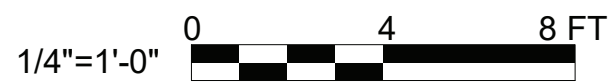
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① HVAC LOWER LEVEL PLAN DEMOLITION
1/4" = 1'-0"



② HVAC GROUND FLOOR PLAN DEMOLITION
1/4" = 1'-0"



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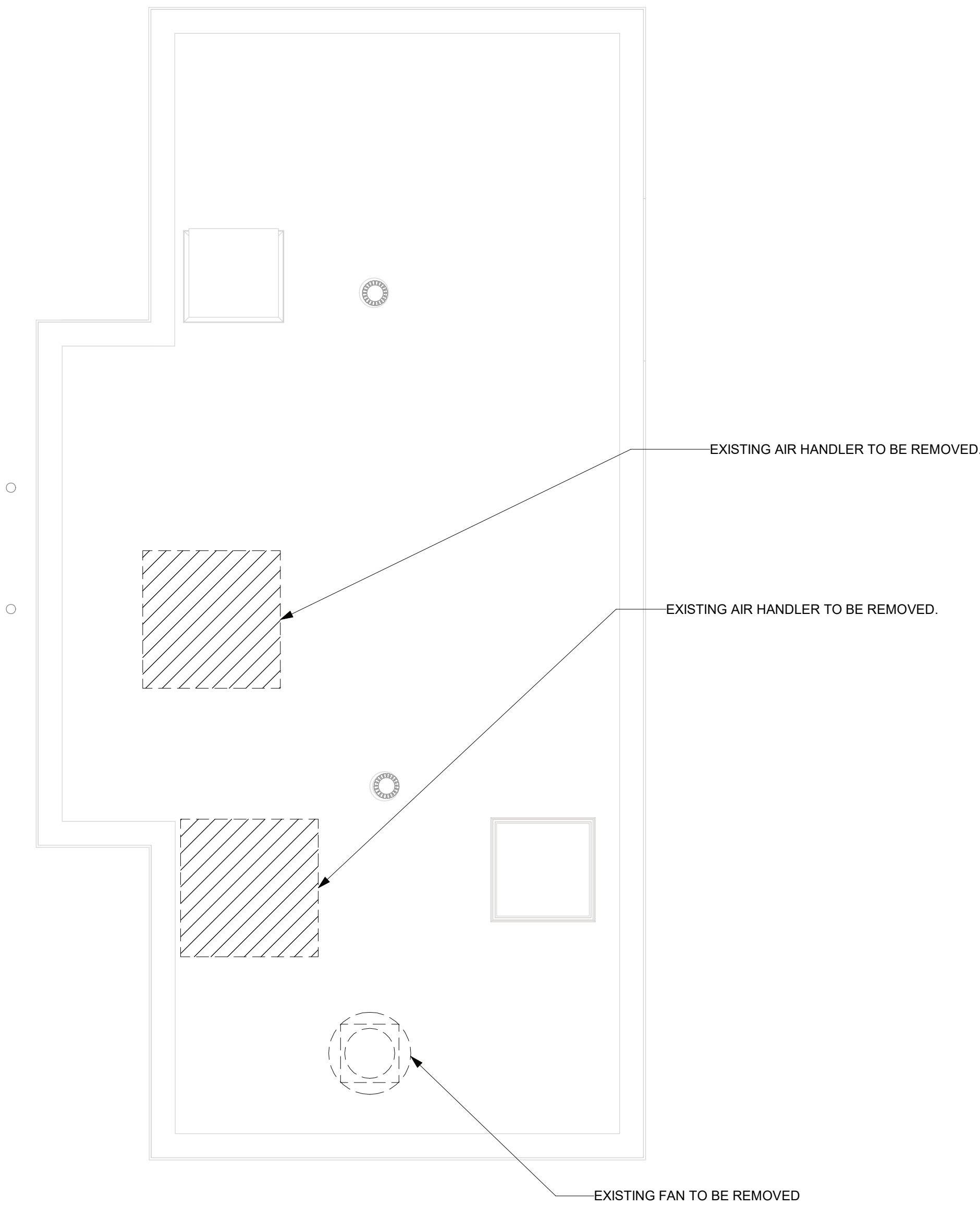
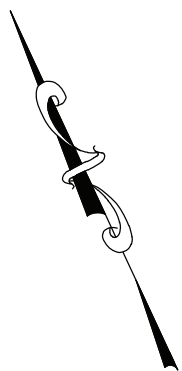
DRAWING TITLE: **TALLMAN PUMP STATION DEMOLITION LOWER AND GROUND FLOOR PLANS**

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5	03/23	100 PERCENT DESIGN REVIEW	MJL	JGD	GRL	DRAWING NUMBER:
6	06/23	FOR BID	MJL	JGD	GRL	H-202

CONTRACT: # RFB-RC-SWR-2022-06

EDR JOB # 21213

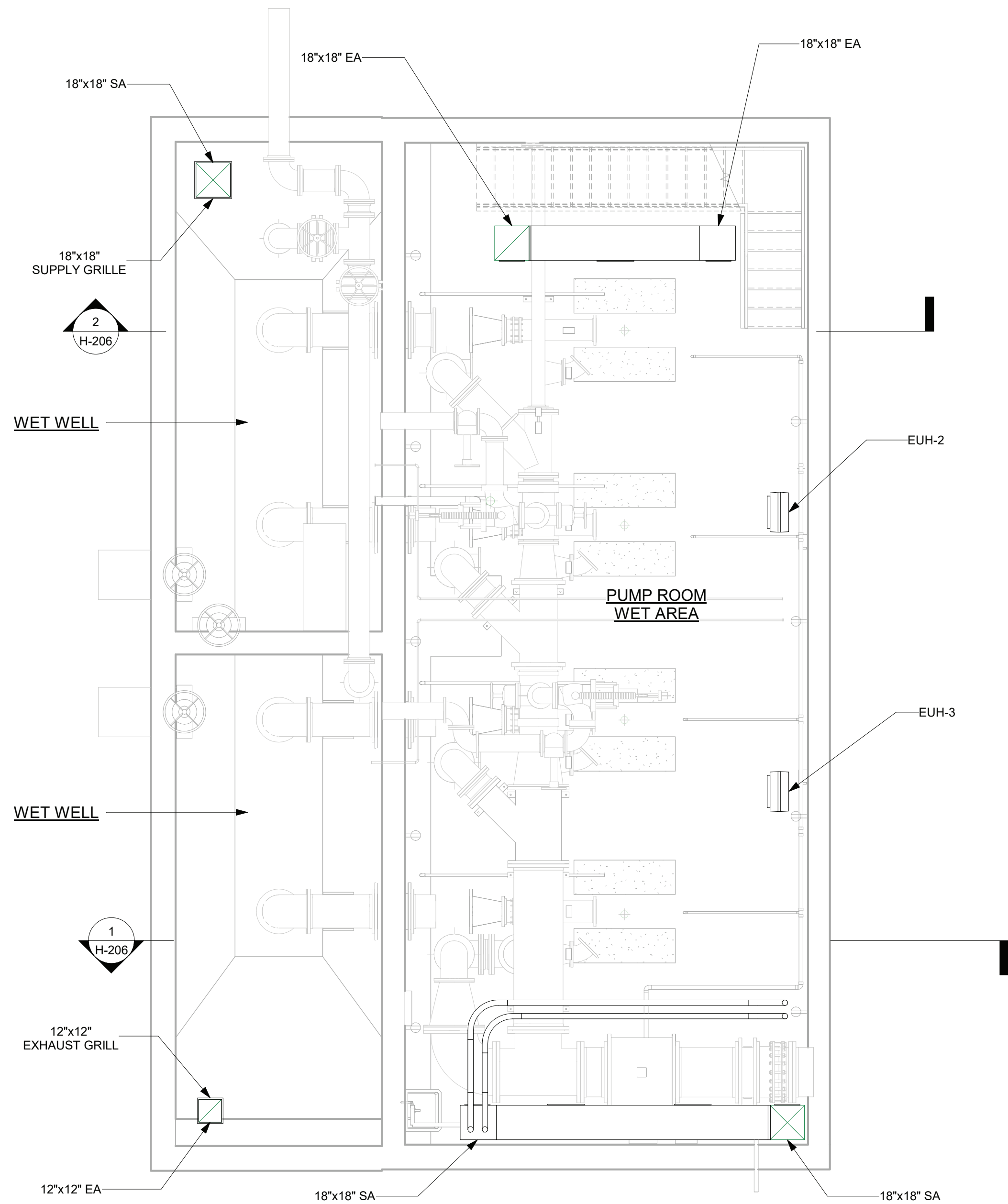
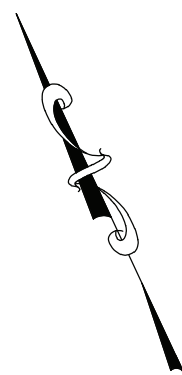


① HVAC ROOF PLAN DEMOLITION
1/4" = 1'-0"

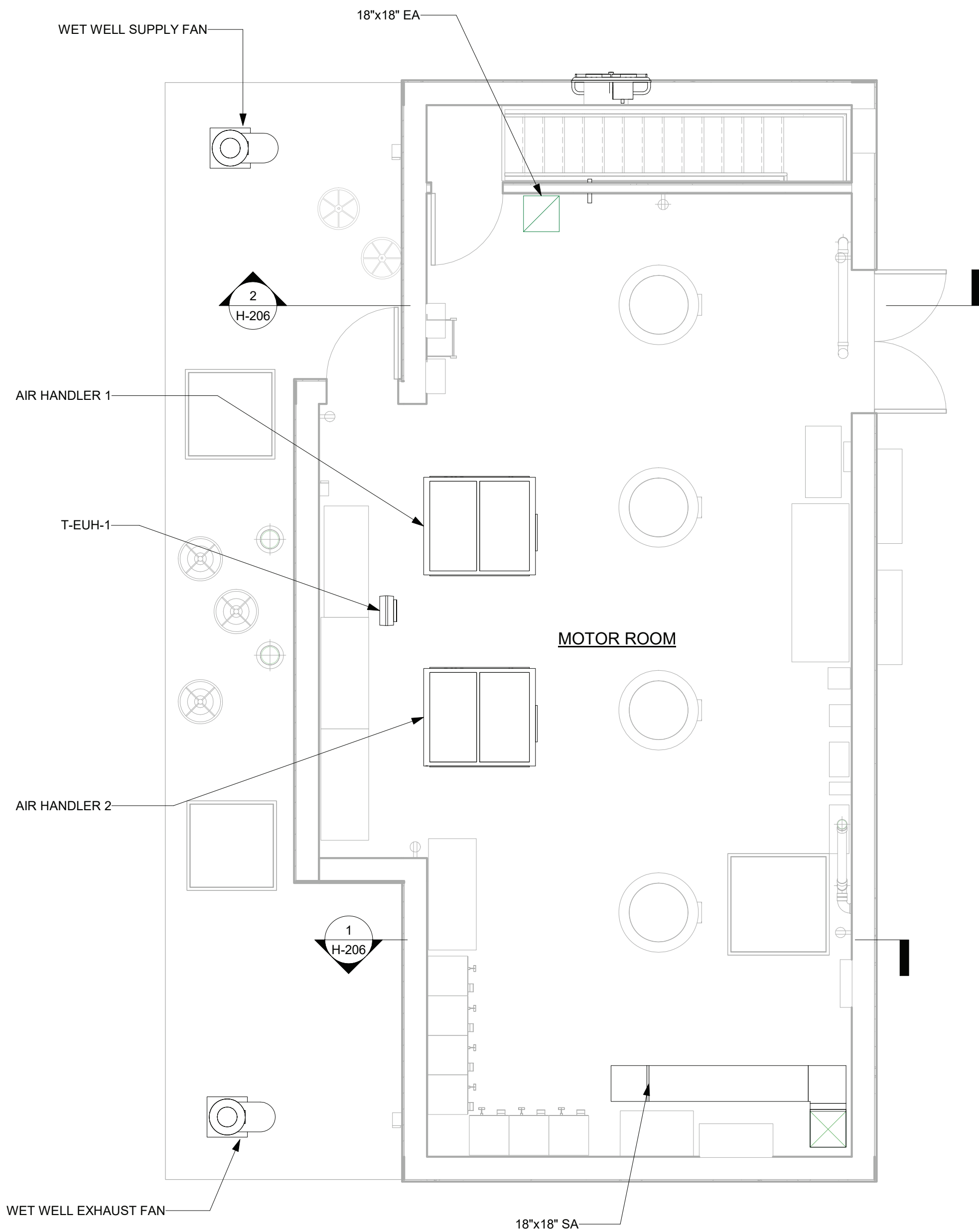


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PROJECT LOCATION: ROCKLAND COUNTY, NEW YORK				NO.	DATE	ISSUED FOR / REVISIONS			BY	CHK	APP	EDR JOB # 21213
CLIENT: ROCKLAND COUNTY SEWER DISTRICT No. 1				1	04/22	60 PERCENT DESIGN REVIEW			MJL	JGD	GRL	DATE: 06/2023
DRAWING TITLE: TALLMAN PUMP STATION DEMOLITION ROOF PLAN				2	07/22	90 PERCENT DESIGN REVIEW			MJL	JGD	GRL	SCALE: 1/4" = 1'-0"
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				5	03/23	100 PERCENT DESIGN REVIEW			MJL	JGD	GRL	DRAWING NUMBER:
				6	06/23	FOR BID			MJL	JGD	GRL	H-203



① HVAC LOWER LEVEL PLAN
1/4" = 1'-0"



② HVAC GROUND FLOOR PLAN
1/4" = 1'-0"



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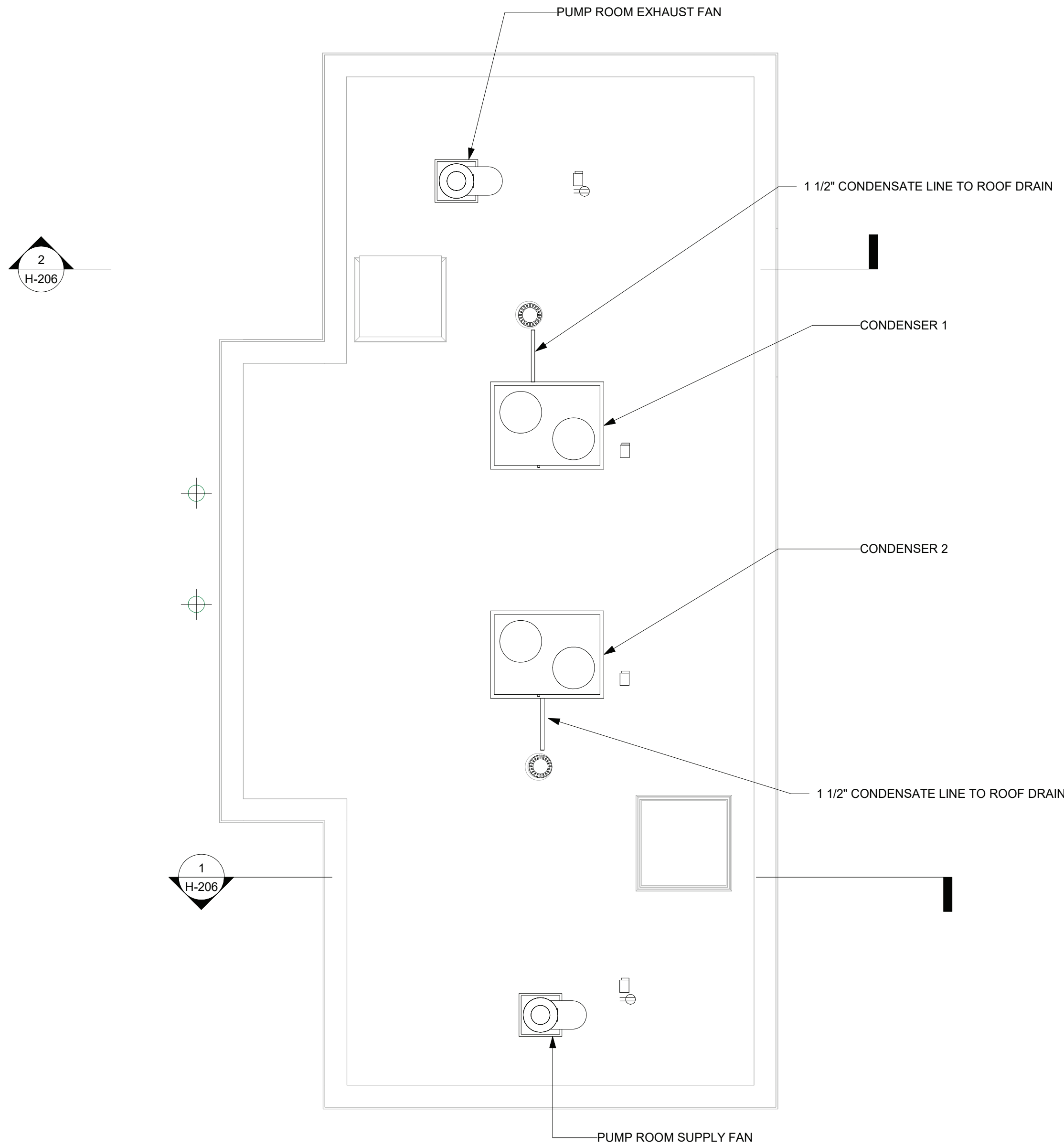
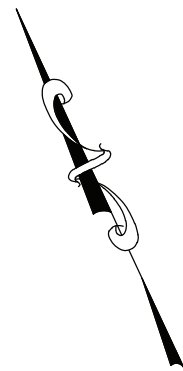
PROJECT TITLE: **UNION HILL AND TALLMAN AVE
PUMP STATION UPGRADE**

PROJECT LOCATION: ROCKLAND COUNTY, NEW YORK

CLIENT: ROCKLAND COUNTY SEWER DISTRICT No. 1

DRAWING TITLE: **TALLMAN PUMP STATION LOWER AND GROUND FLOOR PLANS**

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6	06/23	FOR BID	MJL	JGD	GRL		H-204



① HVAC ROOF PLAN
1/4" = 1'-0"

1/4"=1'-0" 0 4 8 FT.



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PROJECT TITLE: **UNION HILL AND TALLMAN AVE
PUMP STATION UPGRADE**

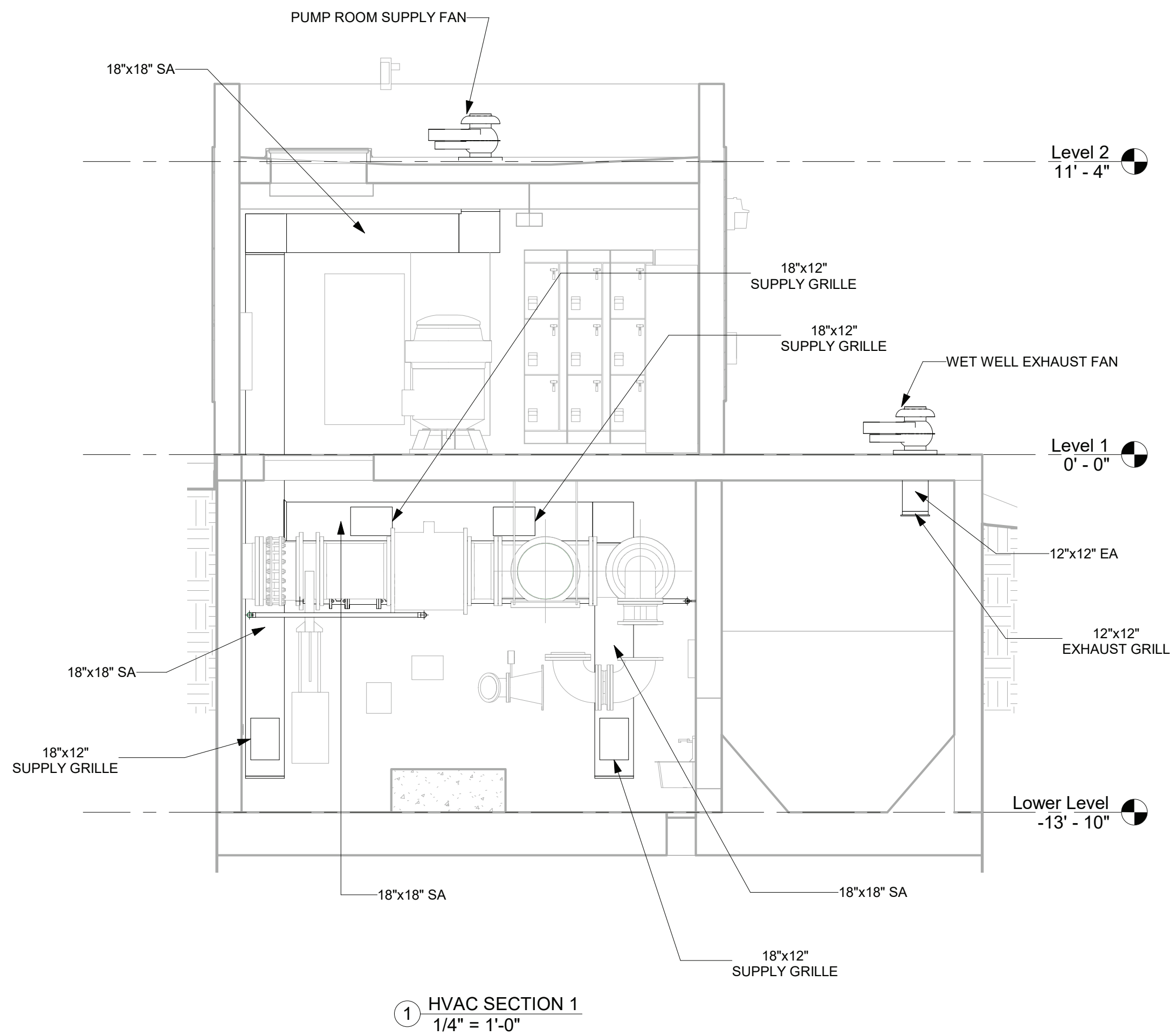
PROJECT LOCATION: ROCKLAND COUNTY, NEW YORK

CLIENT: ROCKLAND COUNTY SEWER DISTRICT No. 1

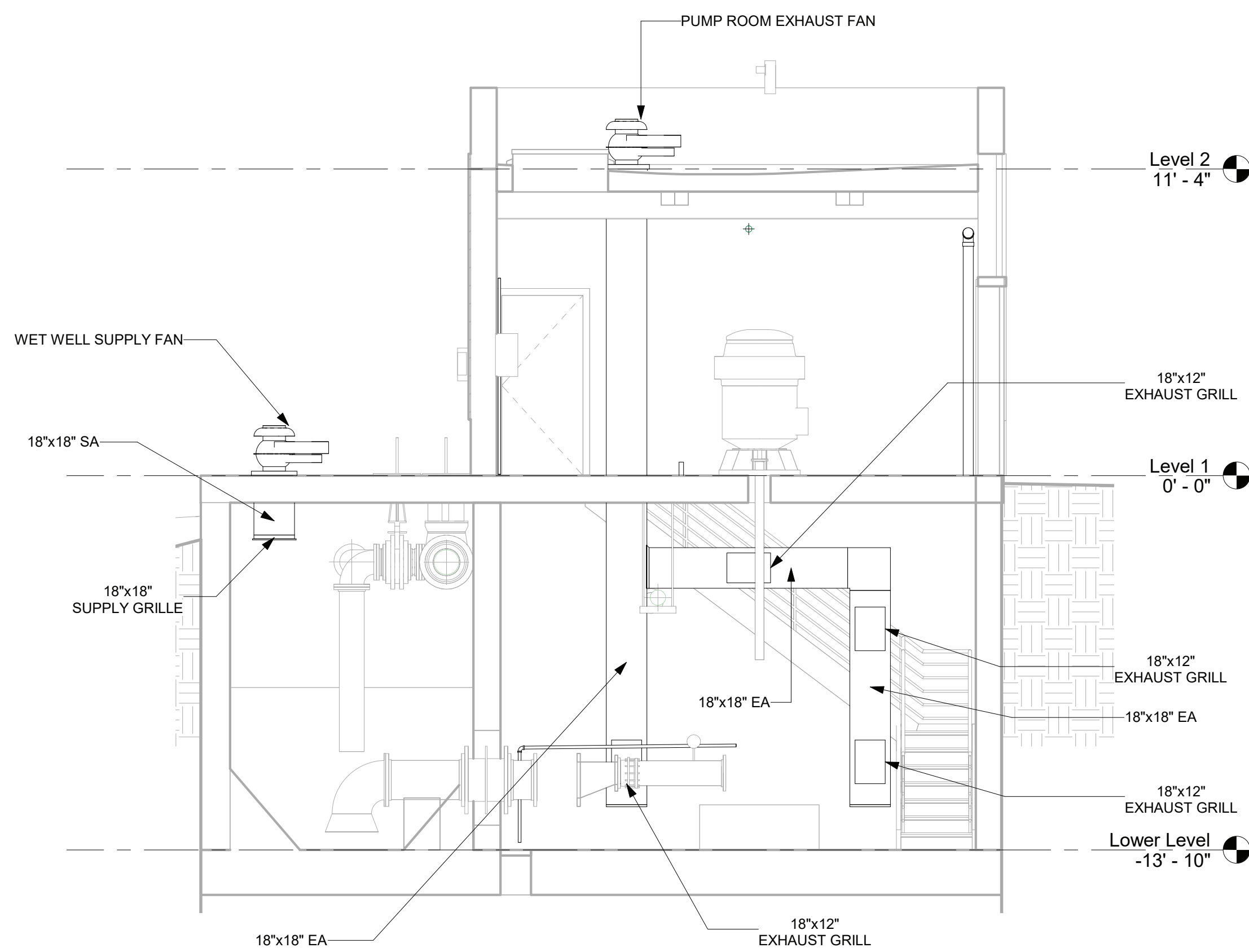
DRAWING TITLE: **TALLMAN PUMP STATION ROOF PLAN**

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6	06/23	FOR BID	MJL	JGD	GRL	H-205	

NOTE:
1. SCADA WILL BE INTEGRATED INTO STATION CONTROL PANEL



① HVAC SECTION 1
1/4" = 1'-0"



② HVAC SECTION 2
1/4" = 1'-0"

1/4"=1'-0" 0 4 8 FT.



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PROJECT TITLE: **UNION HILL AND TALLMAN AVE
PUMP STATION UPGRADE**

PROJECT LOCATION: ROCKLAND COUNTY, NEW YORK

CLIENT: ROCKLAND COUNTY SEWER DISTRICT No. 1

DRAWING TITLE: **TALLMAN PUMP STATION SECTIONS**

DRAWINGS ISSUED FOR / REVISIONS

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6	06/23	FOR BID	MJL	JGD	GRL	H-206

CONTRACT # RFB-RC-SWR-2022-06

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