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ABBREVIATIONS

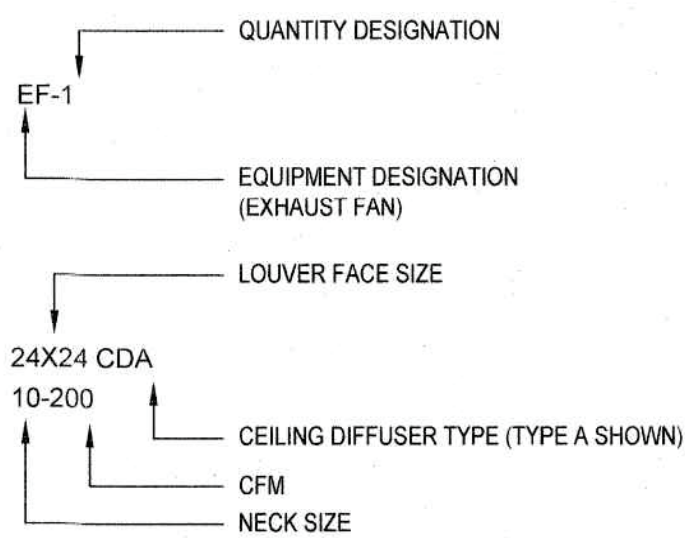
HVAC

ACH	AIR CHANGES PER HOUR
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AFR	ABOVE FINISHED ROOF
AL	ALUMINUM
AMB	AMBIENT
APPROX	APPROXIMATE
ATC	AUTOMATIC TEMPERATURE CONTROL
AUTO	AUTOMATIC
BBO	BATTERY BACK UP OPEN
BDD	BACKDRAFT DAMPER
BHP	BRAKE HORSE POWER
BLDG	BUILDING
BOD	BOTTOM OF DUCT
BOG	BOTTOM OF GRILLE
BOT EL	BOTTOM ELEVATION
BOU	BOTTOM OF UNIT
BTU/HR	BRITISH THERMAL UNITS PER HOUR
BTUH	BRITISH THERMAL UNITS PER HOUR
	CENTER LINE
CD	CEILING DIFFUSER
CFM	CUBIC FEET OF AIR PER MINUTE
CGD	COMBUSTION GAS DETECTOR
CONC	CONCRETE
COND	CONDENSATE
CONN	CONNECTION
CONT	CONTINUATION
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
DX	DIRECT EXPANSION
EA	EACH
EAT	ENTERING AIR TEMPERATURE
ECAV	EXHAUST CONSTANT AIR VOLUME
EG	EXHAUST GRILLE
EL	ELEVATION
ER	EXHAUST REGISTER
ESP	EXTERNAL STATIC PRESSURE
EQUIP	EQUIPMENT
EWT	ENTERING WATER TEMPERATURE
EVAV	EXHAUST VARIABLE AIR VOLUME
EXH	EXHAUST
EXIST	EXISTING
F&B	FACE & BYPASS
FD	FIRE DAMPER
FLR	FLOOR
FO	FUEL OIL
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOPR	FUEL OIL PRESSURE RELIEF
FPM	FEET PER MINUTE
FT	FEET
GAL	GALVANIZED
GBD	GRAVITY BACKDRAFT DAMPER
GPM	GALLONS PER MINUTE
HHWR	HEATING HOT WATER RETURN
HHWS	HEATING HOT WATER SUPPLY
HP	HORSEPOWER
HVAC	HEATING, VENTILATION & AIR CONDITIONING
KW	KILOWATT
L	LOUVER
LAT	LEAVING AIR TEMPERATURE
LBG	LINEAR BAR GRILLE
LCD	LIQUID CRYSTAL DISPLAY
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	THOUSAND BTUH
MCA	MINIMUM CIRCUIT AMPACITY
MD	MOTORIZED DAMPER
MERV	MINIMUM EFFICIENCY REPORTING VALUE
MECH	MECHANICAL
MIN	MINIMUM
MFR	MANUFACTURER
MOP	MAX OVERCURRENT PROTECTION
MTD	MOUNTED
NA	NOT APPLICABLE
NK	NECK
NO	NORMALLY OPEN
NC	NORMALLY CLOSED
NFA	NET FREE AREA
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAI	OUTSIDE AIR INTAKE
OPNG	OPENING
PD	PRESSURE DROP
PE	PNEUMATIC/ELECTRIC
PVC	POLYVINYL CHLORIDE
RECIP	RECIPROCATING
RG	RETURN GRILLE
RL	REFRIGERANT LIQUID
RM	ROOM

RR	RETURN REGISTER
RO	ROOF OPENING
RS	REFRIGERANT SUCTION
RV	RELIEF VENT
SC	SPRING CLOSE
SCAV	SUPPLY CONSTANT AIR VOLUME
SCH	SCHEDULE
SCR	SILICON CONTROLLED RECTIFIER
SD	SMOKE DETECTOR
SG	SUPPLY GRILLE
SGA	SUPPLY GRILLE - TYPE A
SMD	SMOKE DAMPER
SO	SPRING OPEN
SP	STATIC PRESSURE
SRV	SAFETY RELIEF VALVE
SR	SUPPLY REGISTER
SS	STAINLESS STEEL
SVAV	SUPPLY VARIABLE AIR VOLUME
TOD	TOP OF DUCT
TS	TOTAL STATIC
TSP	TOTAL STATIC PRESSURE
TVS	TEMPORARY VENTILATION STATION
TYP	TYPICAL
VAS	VENTILATION ALARM STATION
VD	MANUAL VOLUME DAMPER
VH	VALVE HEATING
VMS	VENTILATION MONITORING STATION
WB	WET BULB
WG	WATER GAUGE
WMS	WIRE MESH SCREEN
WPD	WATER PRESSURE DROP
WI	WITH

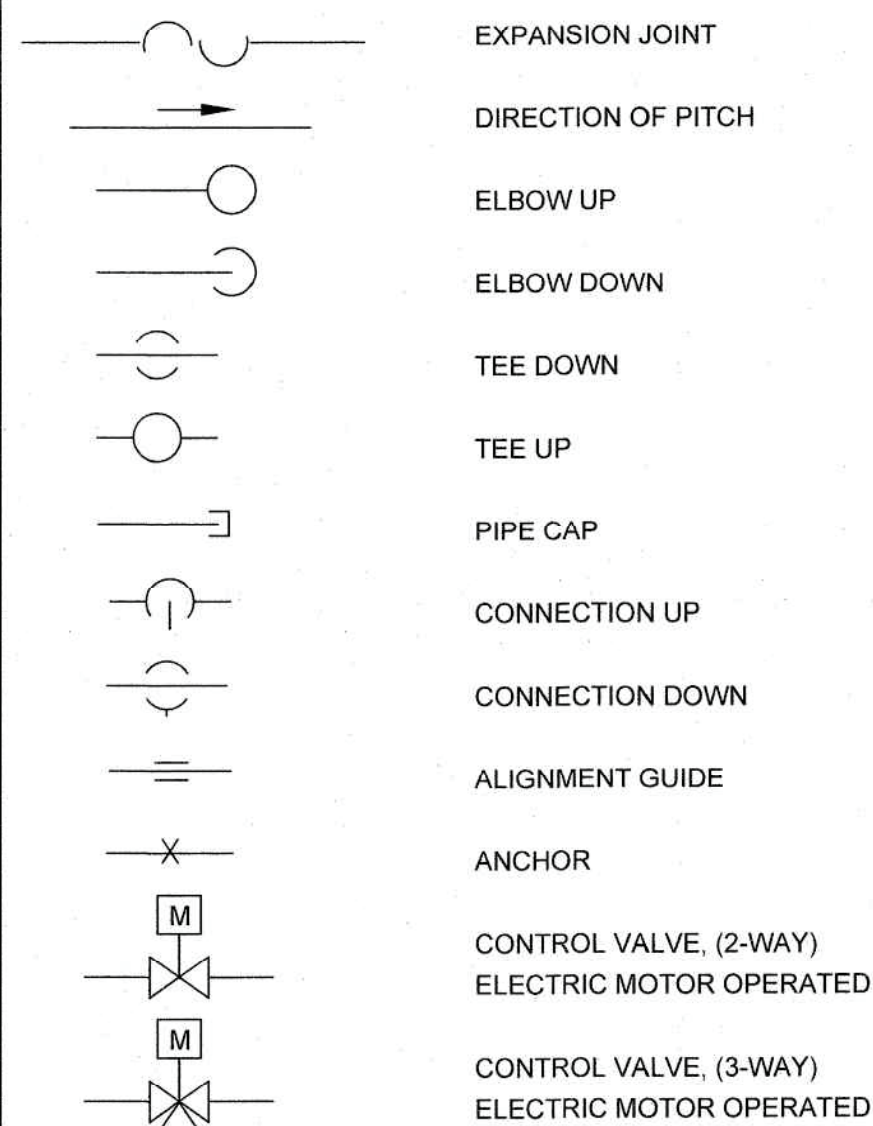
EQUIPMENT

AC	AIR CONDITIONING UNIT
ACC	AIR COOLED CONDENSER
ACCU	AIR COOLED CONDENSING UNIT
AHU	AIR HANDLING UNIT
CH	CHILLER
CRAC	COMPUTER ROOM AIR CONDITIONER
CWH	CABINET WALL HEATER
DDC	DIRECT DIGITAL CONTROL
DH	DEHUMIDIFICATION UNIT
EBH	ELECTRIC BASEBOARD HEATER
EF	EXHAUST FAN
EUH	ELECTRIC UNIT HEATER
FACP	FIRE ALARM CONTROL PANEL
FBP	FIBER BRANCH PANEL
FPP	FIBER PATCH PANEL
GDC	GLYCOL DRY COOLER
HUH	HOT WATER UNIT HEATER
HV	HEATING AND VENTILATING UNIT
HVAC	HEATING, VENTILATING, AIR CONDITIONING UNIT
HWB	HOT WATER BOILER
HWP	HOT WATER PUMP
HWPP	HOT WATER PRIMARY PUMP
HWSP	HOT WATER SECONDARY PUMP
MAU	MAKE-UP AIR UNIT
PSP	PURGE STATION PANEL
PTAC	PACKAGED TERMINAL AC UNIT
RHP	RADIANT HEATING PANEL
SF	SUPPLY FAN
SPP	SMOKE PURGE PANEL

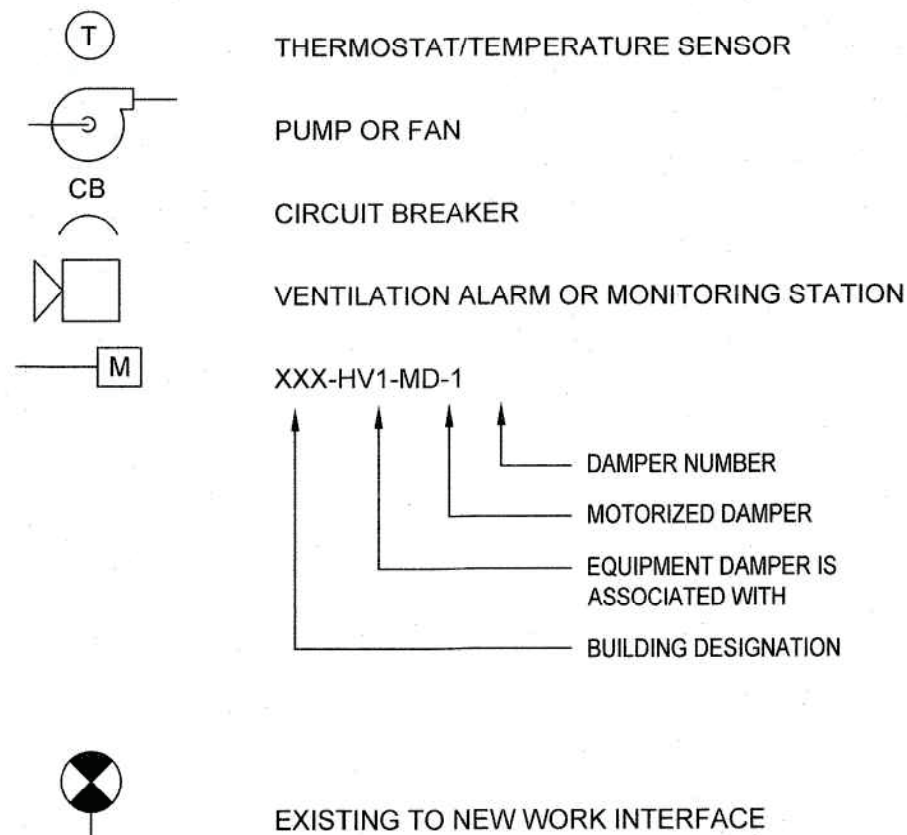


PIPING SYMBOLS

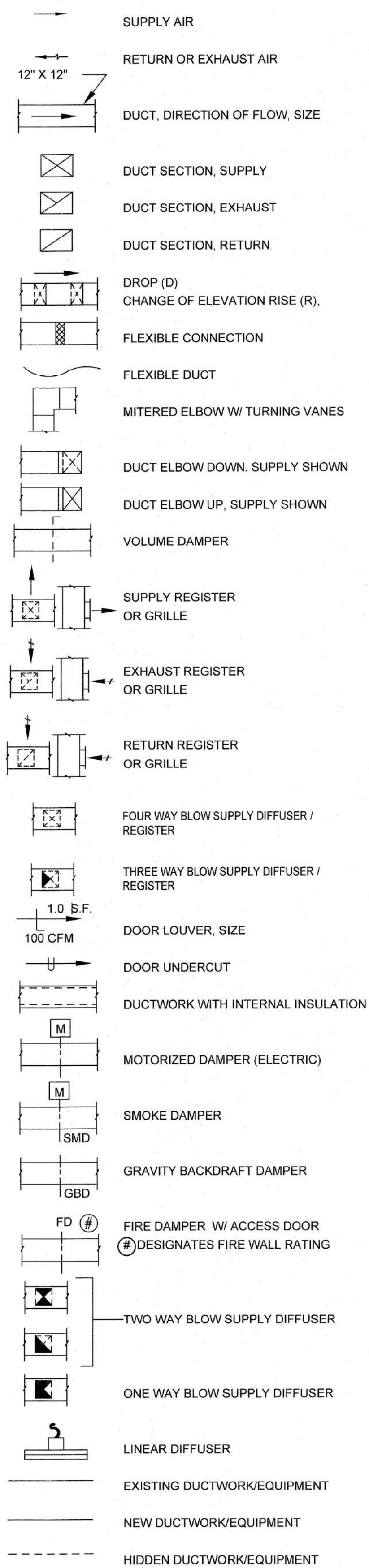
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
CA	COMPRESSED AIR
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
DG	DIGESTER GAS
EFWS	EFFLUENT WATER SUPPLY
EFWR	EFFLUENT WATER RETURN
D	DRAIN
FOS	FUEL OIL SUPPLY
FOR	FUEL OIL RETURN
V	VENT
FOV	FUEL OIL VENT
FOG	FUEL OIL GAUGE
NG	NATURAL GAS
CW	COLD WATER
MU	MAKE-UP WATER



MISCELLANEOUS SYMBOLS




DUCTWORK SYMBOLS




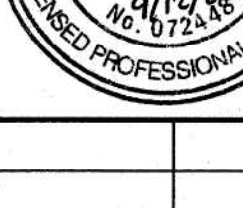
GENERAL NOTES

- THE SYMBOLS AND ABBREVIATIONS LIST ON THIS SHEET IS A COMPREHENSIVE STANDARD GUIDE INTENDED FOR GENERAL USE ON ALL PROJECTS. NOT ALL THE SYMBOLS AND ABBREVIATIONS CONTAINED ARE NECESSARILY USED.
- CONTRACTOR TO VERIFY FIELD CONDITIONS PRIOR TO BEGINNING WORK SHOWN.
- LOCATION, ELEVATION AND DIMENSIONS OF EXISTING PIPING, DUCTWORK, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF THE PREPARATION OF THESE PLANS BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING PIPING, DUCTWORK, STRUCTURES AND OTHER FEATURES AFFECTING HIS WORK PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER (IN WRITING) IF ANY LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING PIPING, DUCTWORK, STRUCTURES AND OTHER FEATURES SIGNIFICANTLY DIFFER FROM THOSE SHOWN. THE ENGINEER WILL ISSUE WRITTEN INSTRUCTIONS IF WARRANTED. IT IS THE INTENT OF THIS CONTRACT THAT THE CONTRACTOR BE RESPONSIBLE TO MAKE ANY AND ALL ADJUSTMENTS IN CONSTRUCTION NECESSARY TO SUIT EXISTING DIMENSIONS OR ELEVATIONS, AT NO CHANGE IN CONTRACT PRICE, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- ALL DUCT DIMENSIONS ARE CLEAR DIMENSIONS TO INSIDE OF DUCT. DIMENSIONS TO DUCTS FROM FLOOR OR WALL SHALL BE TO THE OUTSIDE OF DUCT. WHERE INTERNAL INSULATION IS REQUIRED, THE DUCT SIZE SHALL BE INCREASED TO GIVE CLEAR INSIDE DIMENSIONS.
- EQUIPMENT SIZES AND LOCATIONS ARE APPROXIMATE. ACTUAL DIMENSIONS TO BE DETERMINED BY EQUIPMENT FURNISHED.
- CONCRETE PAD SIZES AND LOCATIONS SHALL BE COORDINATED DURING CONSTRUCTION WITH APPROVED EQUIPMENT.
- FINAL SIZES OF FLOOR OPENINGS, WALL OPENINGS, ROOF OPENINGS, DUCT PLENUMS, DUCT TRANSITIONS AND PIPING CONNECTIONS TO EQUIPMENT SHALL BE DETERMINED BY EQUIPMENT FURNISHED.
- FIRST FIGURE OF DUCT SIZE INDICATES DIMENSION OF FACE SHOWN OR INDICATED.
- WHERE PIPING OR DUCTWORK CONNECTS TO EXISTING PIPING OR DUCTWORK, MODIFY EXISTING PIPING OR DUCTWORK AS REQUIRED TO MAKE CONNECTION.
- WHERE PIPES OR DUCTS PENETRATE THROUGH EXISTING FLOORS, WALLS, OR SLABS, CORE DRILL OR SAW CUT PENETRATION.
- PATCH EXISTING PENETRATIONS THROUGH WALLS AND FLOORS THAT RESULTED FROM DEMOLITION OF EXISTING DUCTWORK, PIPING AND EQUIPMENT.
- VOLUME DAMPERS SHOWN OR DESCRIBED ON THE DRAWINGS ARE IN ADDITION TO OPPOSED BLADE DAMPERS PROVIDED WITH REGISTERS.
- PROVIDE PIPE SLEEVES AND MECHANICAL SEALS FOR ALL PIPING AND CONTAINMENT CONDUIT PENETRATIONS THRU CONCRETE OR MASONARY CONSTRUCTION INCLUDING BUT NOT LIMITED TO WALLS, FLOORS, ROOFS, PADS, UNDERGROUND STRUCTURES EXCEPT WHERE OTHERWISE NOTED.
- REFER TO CODE COMPLIANCE DRAWINGS UNDER ARCHITECTURAL DRAWING CATEGORY FOR ADDITIONAL DESIGN INFORMATION REQUIRED UNDER THIS CONTRACT.

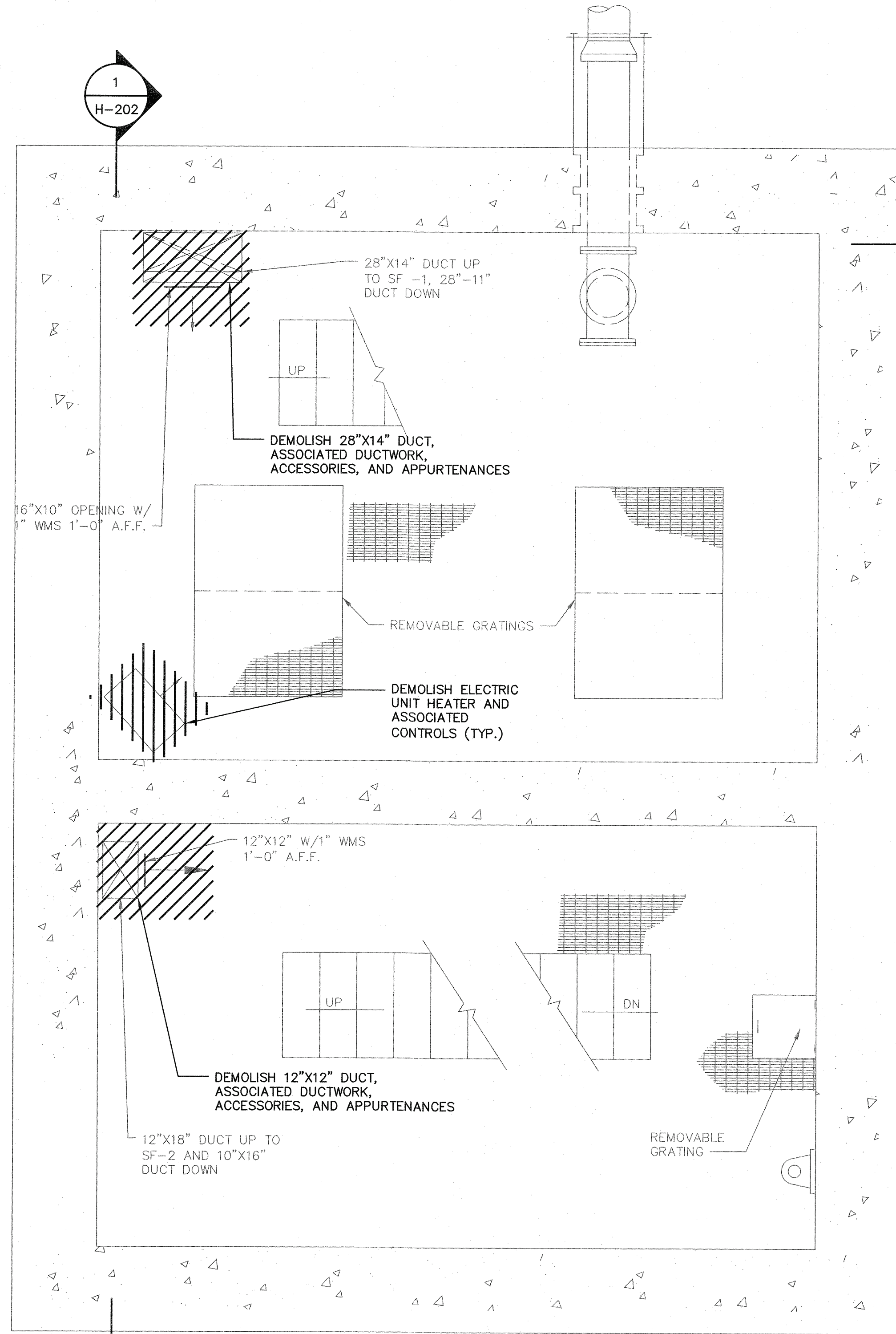
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DIVISION OF ENGINEERING					
REHABILITATION OF WEAVER STREET PUMPING STATION					
MAMARONECK VALLEY SANITARY SEWER DISTRICT					
GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS					
CONTRACT NUMBER 22-526		SHEET NUMBER H-001		SHEET NO 66 OF 103	
SCALE: NO SCALE		DATE: APRIL 2023		REV. NO.	
DPW FILE NO.		205-03-H-107-0			



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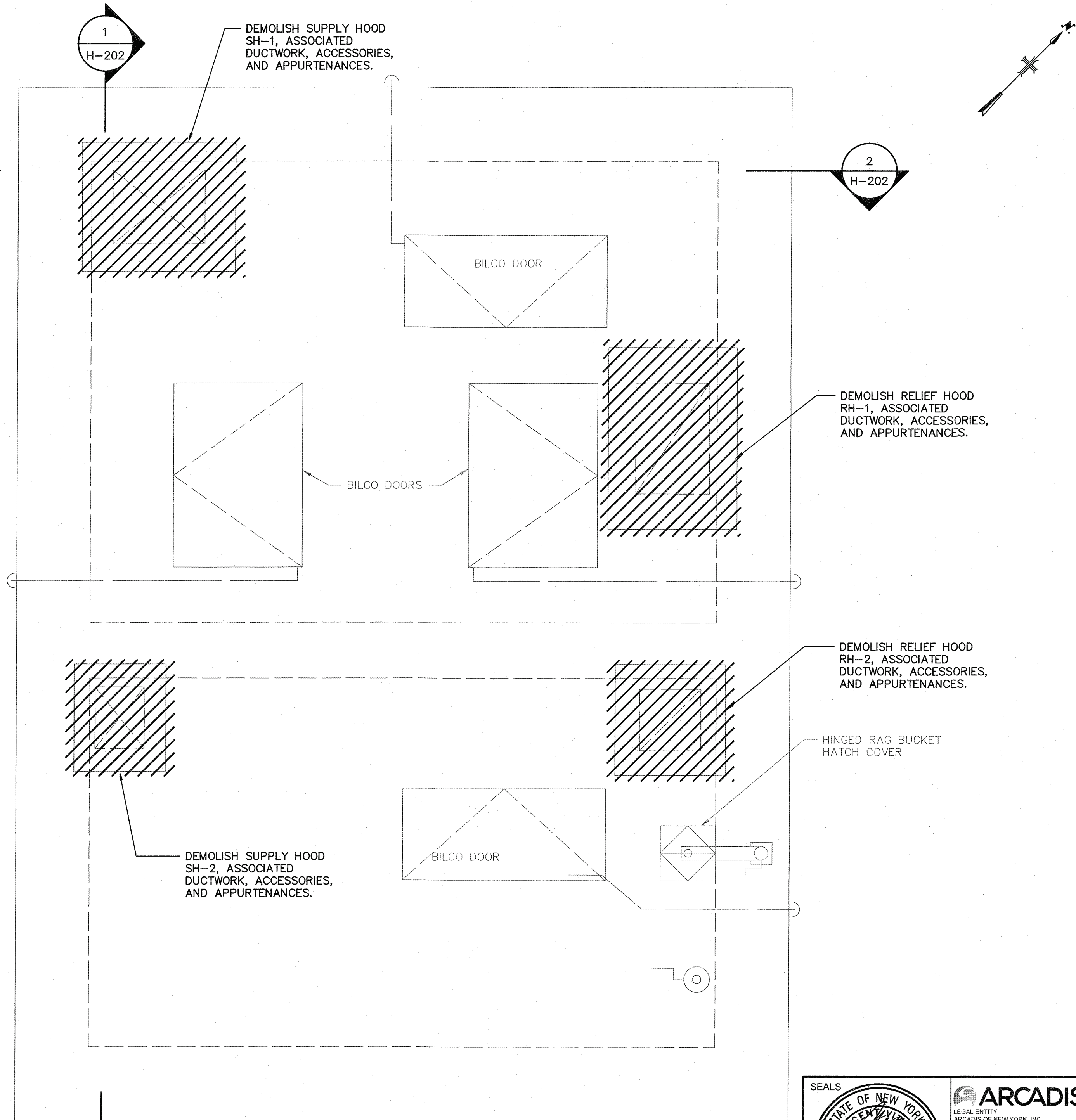
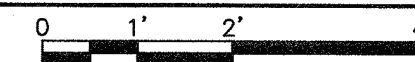
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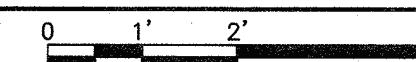
UPPER LEVEL PLAN ELEV. 4.48

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TOP OF STRUCTURE PLAN ELEV. 15.00

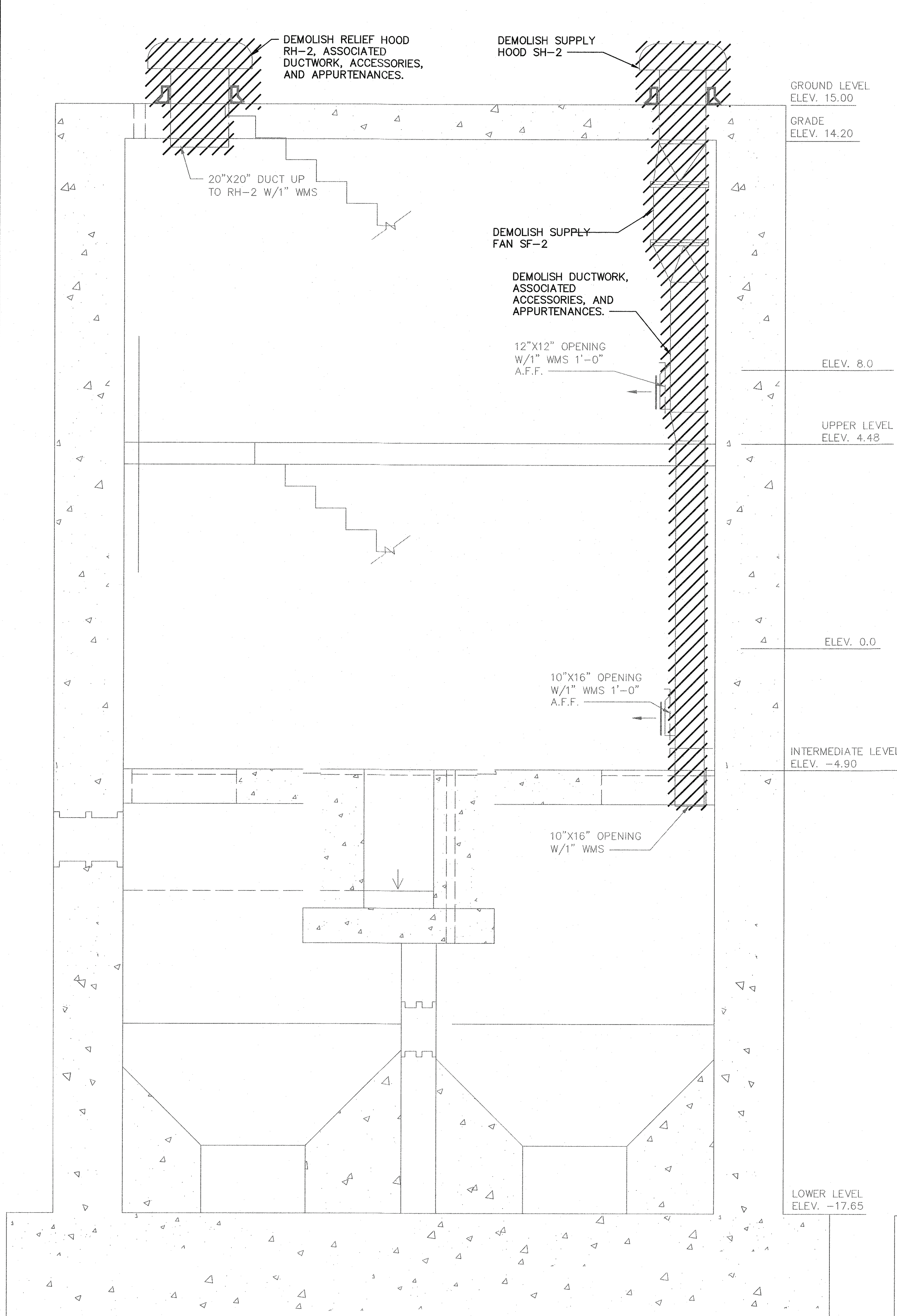
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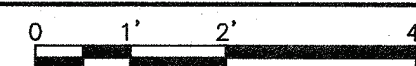
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REHABILITATION OF WEAVER STREET PUMPING STATION MAMARONECK VALLEY SANITARY SEWER DISTRICT DEMOLITION PLANS - SHEET 2		SHEET NO. 68 OF 103 SCALE: AS SHOWN DATE: APRIL 2023 DPW FILE NO. 205-03-H-109-0	REV. NO.																									

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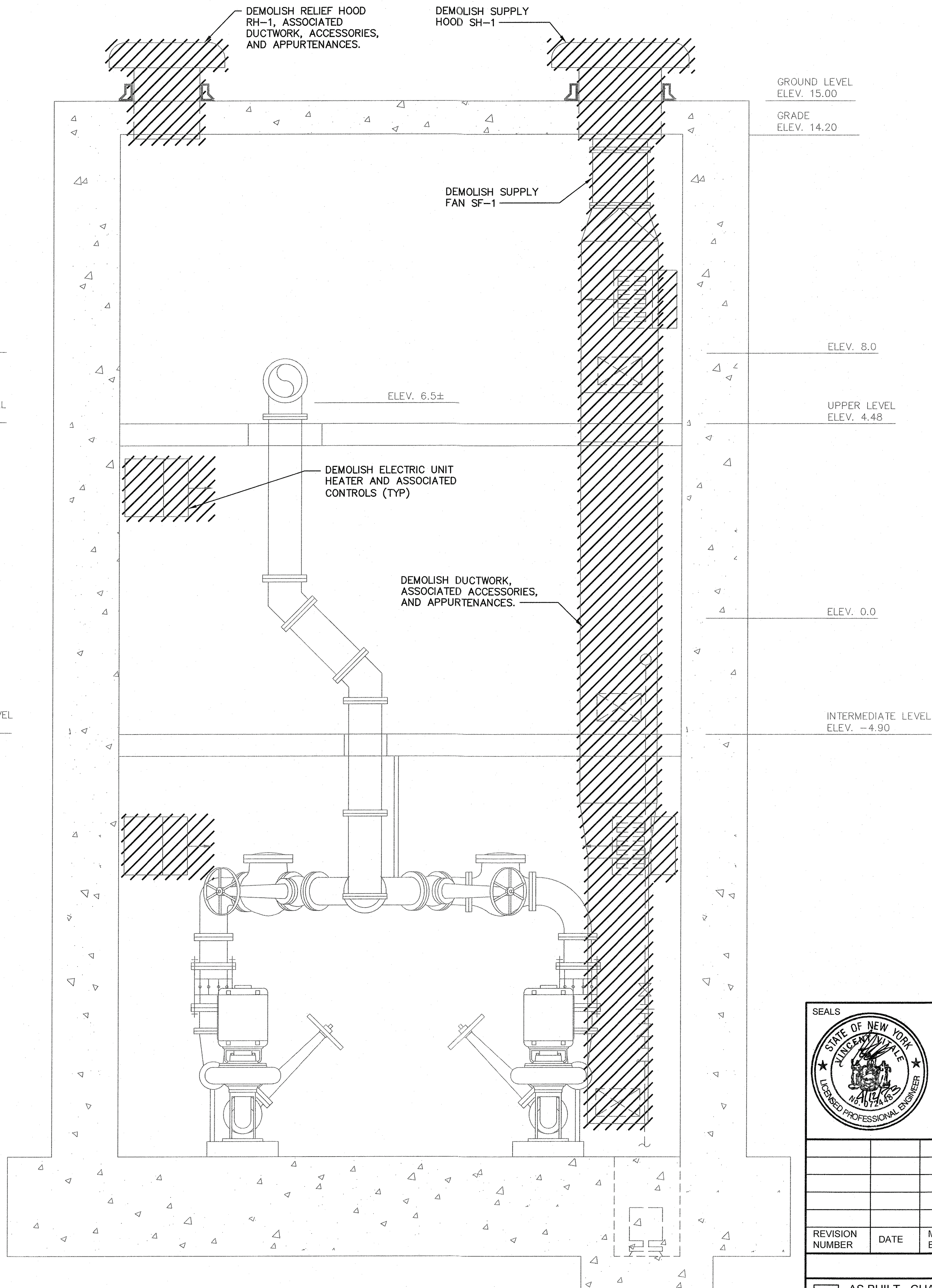
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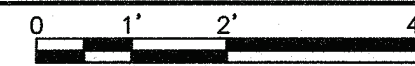
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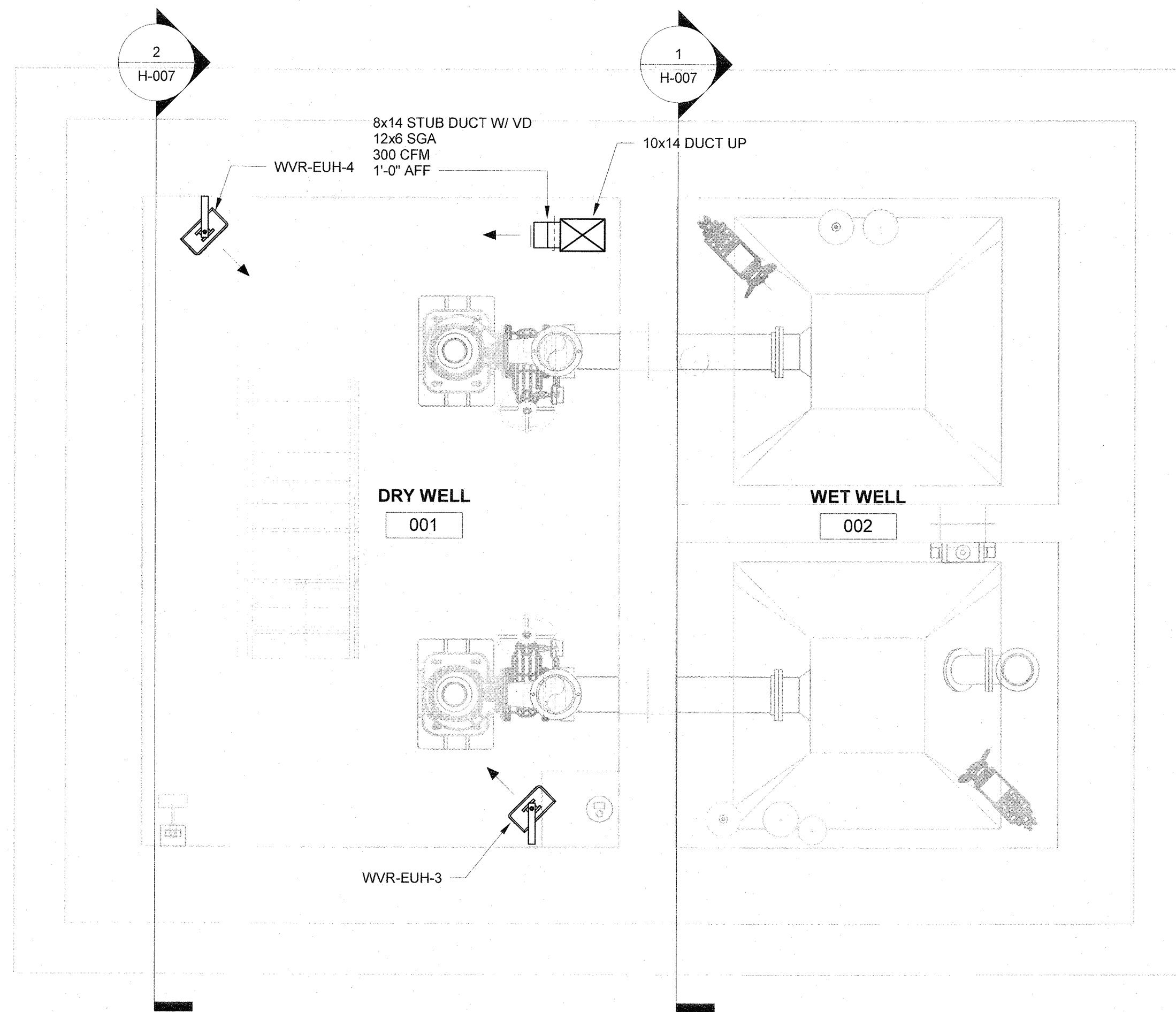
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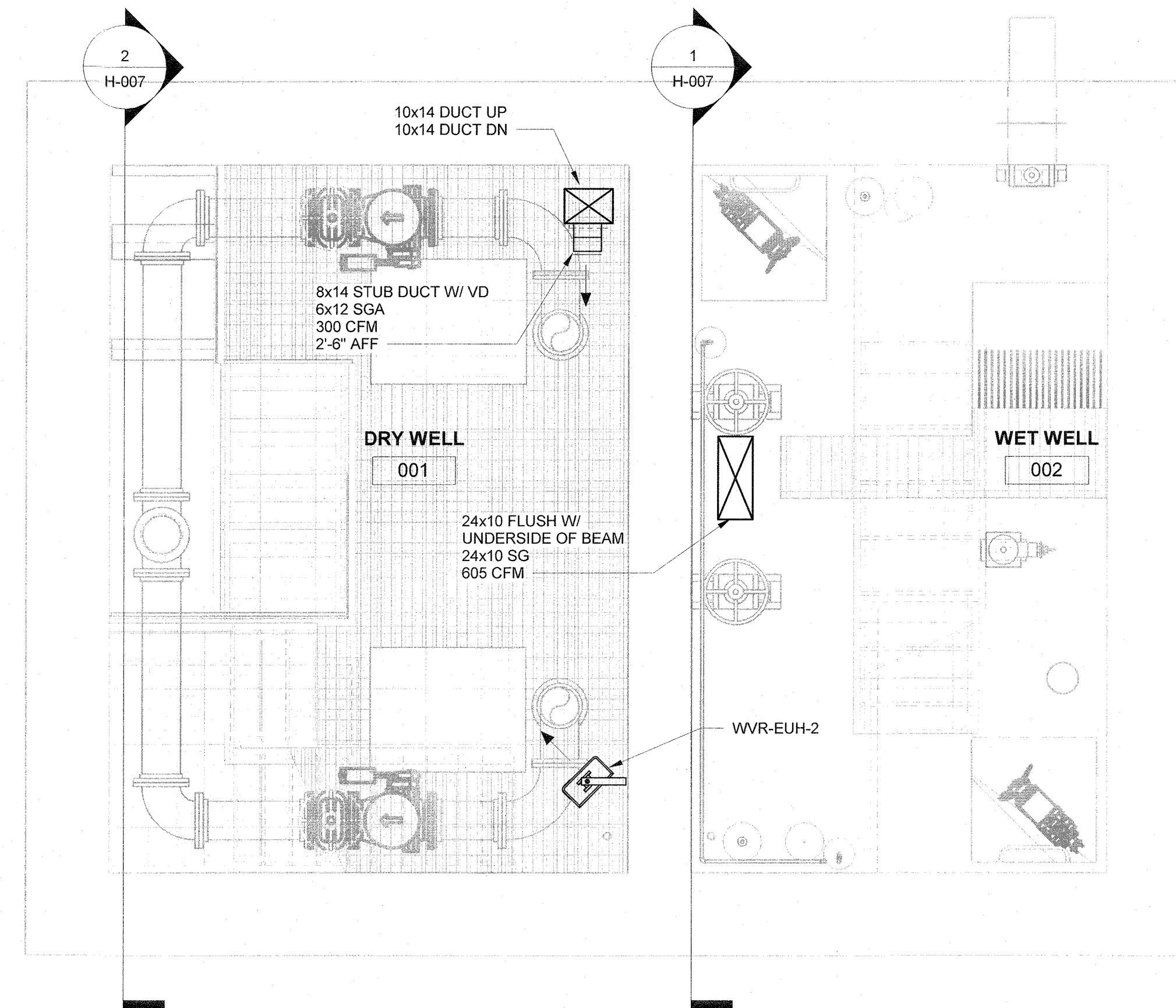


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REHABILITATION OF WEAVER STREET PUMPING STATION MAMARONECK VALLEY SANITARY SEWER DISTRICT DEMOLITION SECTIONS				SHEET NO. 69 OF 103 SCALE: AS SHOWN DATE: APRIL 2023 DPW FILE NO. 205-03-H-110-0	



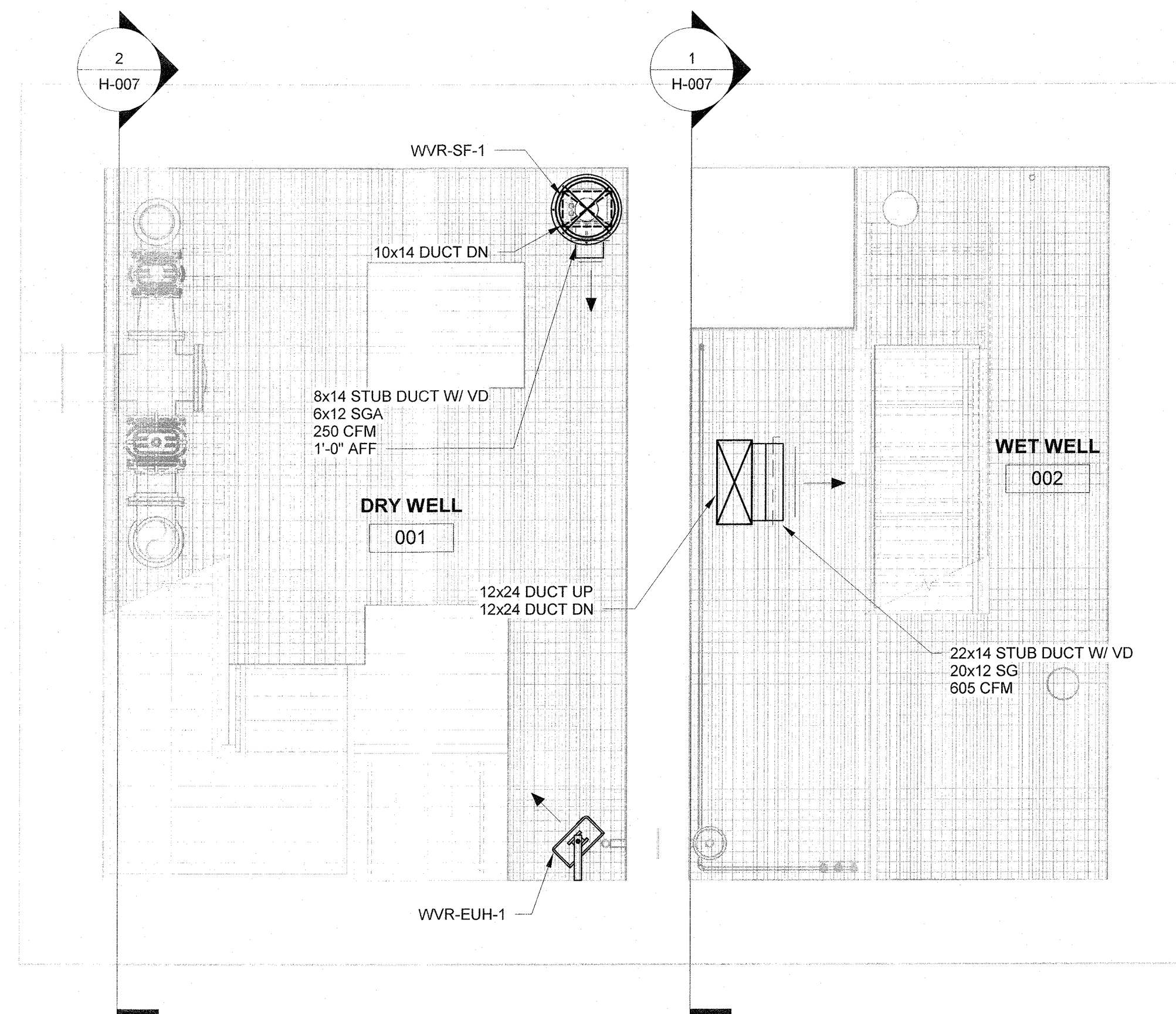
LOWER LEVEL PLAN EL. -17.65

SCALE: 3/8" = 1'-0"



INTERMEDIATE LEVEL PLAN EL. -4.90



SCALE: 3/8" = 1'-0"

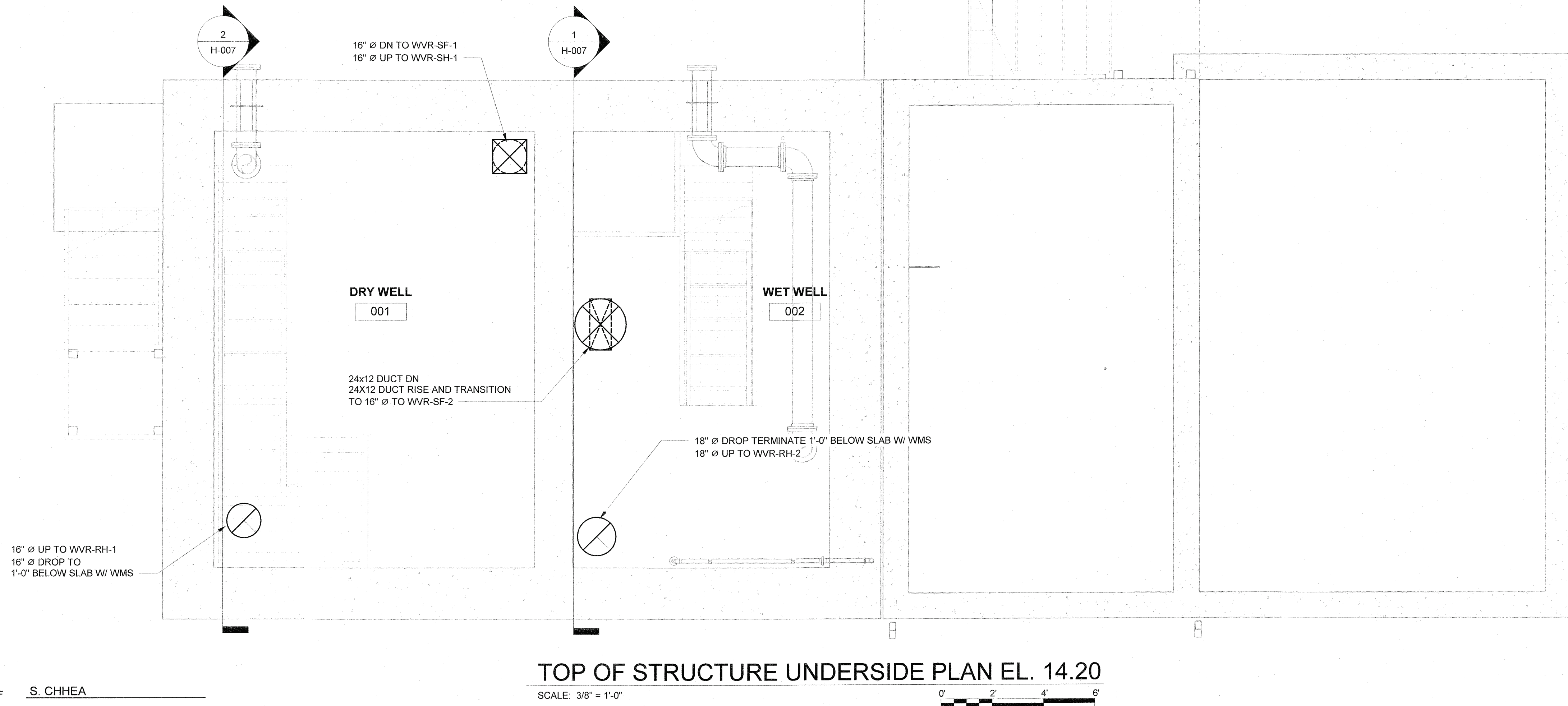
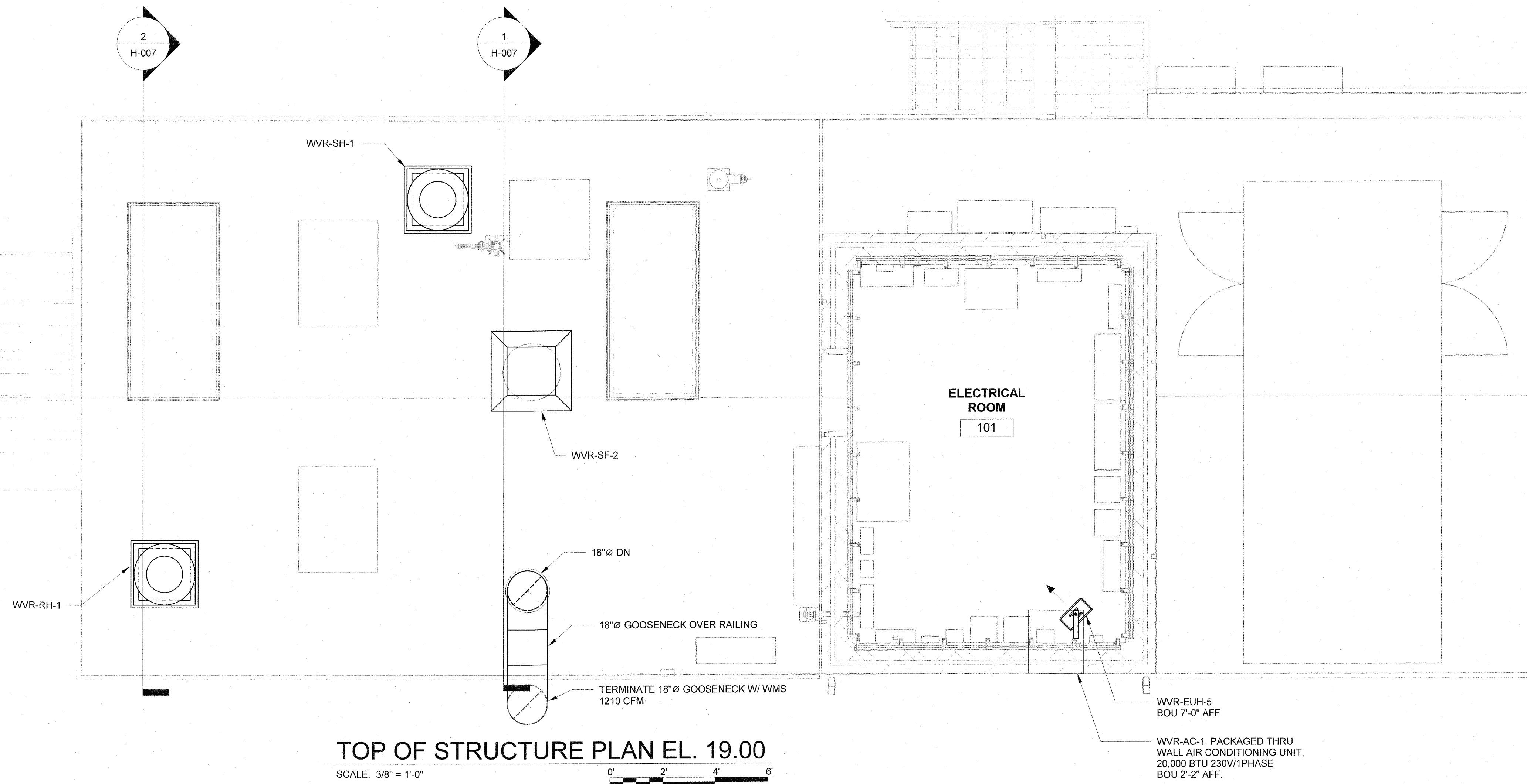


UPPER LEVEL PLAN EL. 4.48

SCALE: 3/8" = 1'-0"

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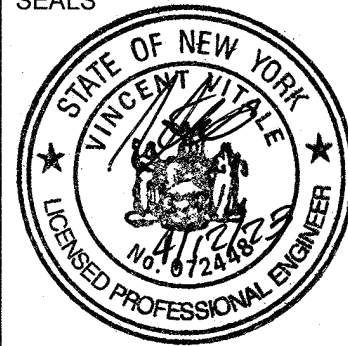
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<p align="center">WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING</p>				<p>CONTRACT NUMBER 22-526</p>	<p>SHEET NUMBER H-005</p>																									
<p align="center">REHABILITATION OF WEAVER STREET PUMPING STATION MAMARONECK VALLEY SANITARY SEWER DISTRICT LOWER, INTERMEDIATE, AND UPPER LEVEL PLANS</p>				<p>SCALE: 3/8" = 1'-0" DATE: APRIL 2023 DPW FILE NO. 205-03-H-111-0</p>	<p>REV NO.</p>																									

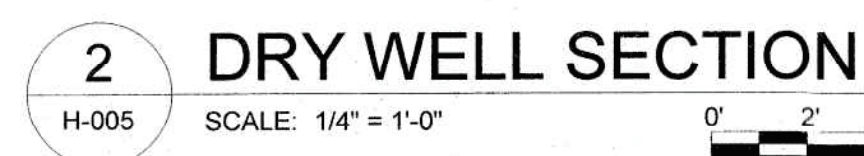
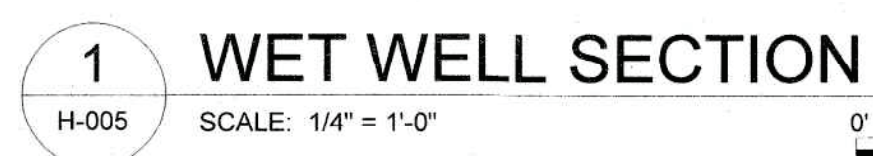




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CONTRACTOR NAME _____ SIGNATURE _____ TITLE _____			PROJECT COORDINATOR NAME _____ SIGNATURE _____ TITLE _____																																
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING				CONTRACT NUMBER 22-526	SHEET NUMBER H-006																														
REHABILITATION OF WEAVER STREET PUMPING STATION MAMARONECK VALLEY SANITARY SEWER DISTRICT TOP OF STRUCTURE AND UNDERSIDE PLANS				SCALE: 3/8" = 1'-0" DATE: APRIL 2023 DPW FILE NO. 205-03-H-112-0	REV. NO.																														



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CONTRACTOR		PROJECT COORDINATOR		
NAME _____		NAME _____		
SIGNATURE _____		SIGNATURE _____		
TITLE _____		TITLE _____		
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER 22-526	SHEET NUMBER H-007	
REHABILITATION OF WEAVER STREET PUMPING STATION MAMARONECK VALLEY SANITARY SEWER DISTRICT SECTIONS		SHEET NO. 72 OF 103 SCALE: 1/4" = 1'-0" DATE: APRIL 2023 DPW FILE NO. 205-03-H-113-0		
		REV. NO.		



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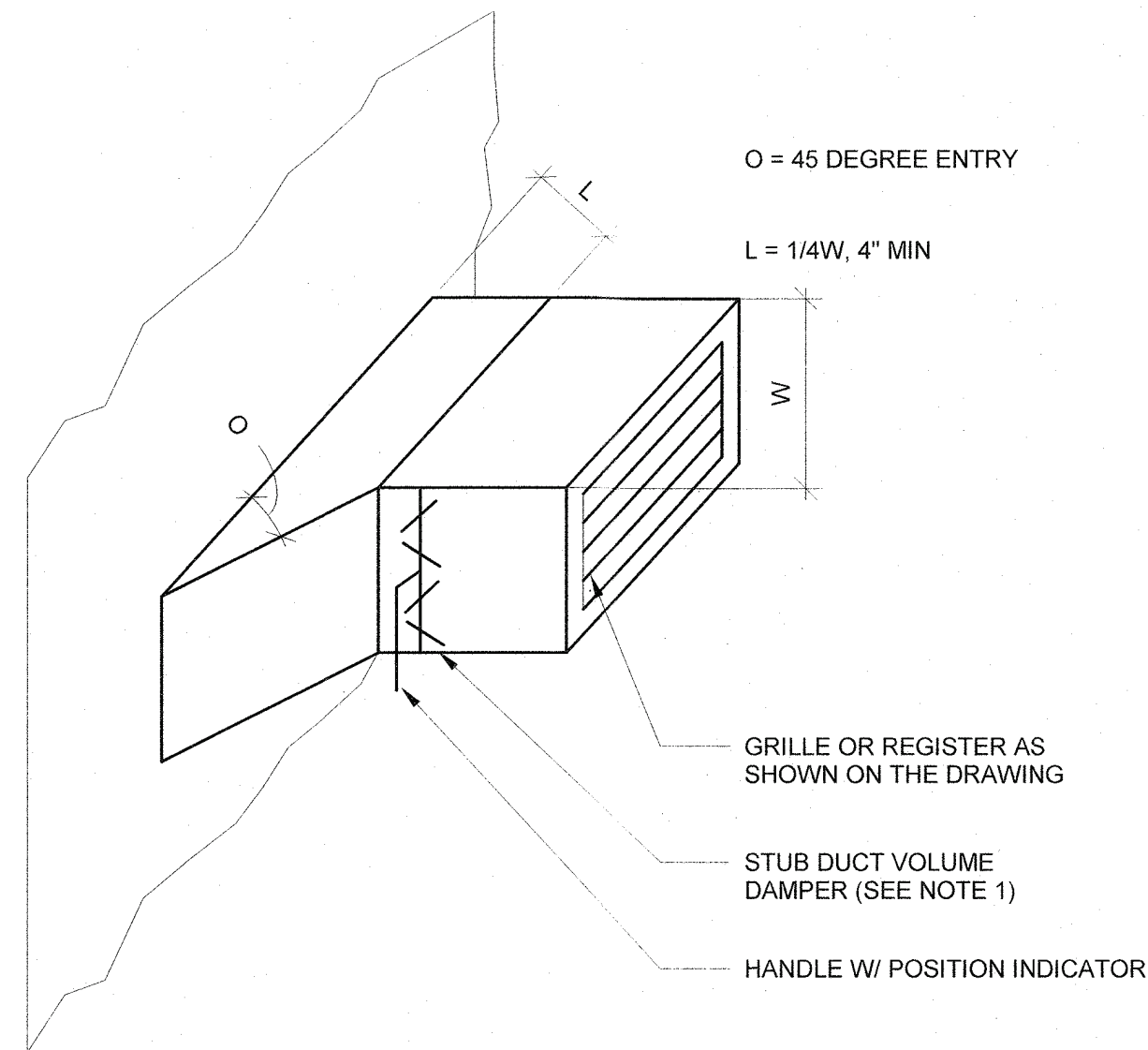
ELECTRIC HEATER SCHEDULE																				
MARK NO.	LOCATION	SERVICE	COIL DATA			MOTOR DATA			TOTAL AMPS	CFM	EAT (°F)	LAT (°F)	THROW (FT)	DISCHARGE ORIENTATION	MTG. HEIGHT (FT AFF)	WEIGHT (LBS)	MFR	MODEL	NOTES	
			MBH	KW	V/PH	RPM	HP	V/PH												
WVR-EUH-1 THRU 2	DRY WELL	DRY WELL	17.1	5.0	208/3	1,050	1/15	208/1	13.9	405	55	94	12	HORIZONTAL	8	50	CHROMALOX	HD3D	1	
WVR-EUH-3 THRU 4	DRY WELL	DRY WELL	17.1	5.0	208/3	1,050	1/15	208/1	13.9	405	55	94	12	HORIZONTAL	7	50	CHROMALOX	HD3D	1	
WVR-EUH-5	ELECTRICAL ROOM	ELECTRICAL ROOM	17.1	5.0	208/3	1,050	1/15	208/1	13.9	405	55	94	12	HORIZONTAL	7	50	CHROMALOX	HD3D	1	
NOTES: 1. DISCONNECT PROVIDED UNDER ELECTRICAL WORK.																				

FAN SCHEDULE															
MARK NO.	LOCATION	SERVICE	TYPE	DRVE	AIRFLOW (CFM)	ESP (IN. W.G.)	SPEED (RPM)	MOTOR DATA				WEIGHT (LBS)	MFR	MODEL	NOTES
								HP	BHP	RPM	V/PH				
WVR-SF-1	DRY WELL	DRY WELL	AXIAL INLINE	DIRECT	850	0.50	1750	1/3	0.12	1750	115/1	185	HARTZELL	A39	1,5
WVR-SF-2	OUTSIDE	WET WELL	VANE AXIAL INLINE	DIRECT	1,210	0.50	1160	1/3	0.19	1160	115/1	159	HARTZELL	A29V	1,2,3,4
NOTES: 1. DISCONNECT PROVIDED UNDER ELECTRICAL WORK. 2. FRP CONSTRUCTION. 3. WEATHER HOOD. 4. MOTOR RATED FOR CLASS I DIVISION I 5. ALUMINUM CONSTRUCTION W/ EPOXY COATING.															

GRAVITY VENTILATOR SCHEDULE													
MARK NO.	LOCATION	SERVICE	TYPE	FUNCTION	AIR FLOW (CFM)	THROAT OPENING (IN)	THROAT AREA (SF)	TIERS (NUMBER)	SP (IN W.C.)	WEIGHT (LB)	MFR	MODEL	NOTES
WVR-SH-1	OUTDOORS	DRY WELL	DOME	INTAKE AIR	850	16.5	5.44	1	0.05	24	LOREN COOK	PR	1
WVR-RH-1	OUTDOORS	DRY WELL	DOME	RELIEF AIR	850	16.5	5.44	1	0.1	24	LOREN COOK	PR	1
NOTES: 1. ALL ALUMINUM CONSTRUCTION.													

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SIGNATURE _____	SIGNATURE _____	
TITLE _____	TITLE _____	DATE _____
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER 22-526
		SHEET NUMBER H-008
		SHEET NO. 73 OF 103
REHABILITATION OF WEAVER STREET PUMPING STATION MAMARONECK VALLEY SANITARY SEWER DISTRICT SCHEDULES AND DETAILS		SCALE: NO SCALE DATE: APRIL 2023 DPW FILE NO. 205-03-H-114-0
		REV. NO.

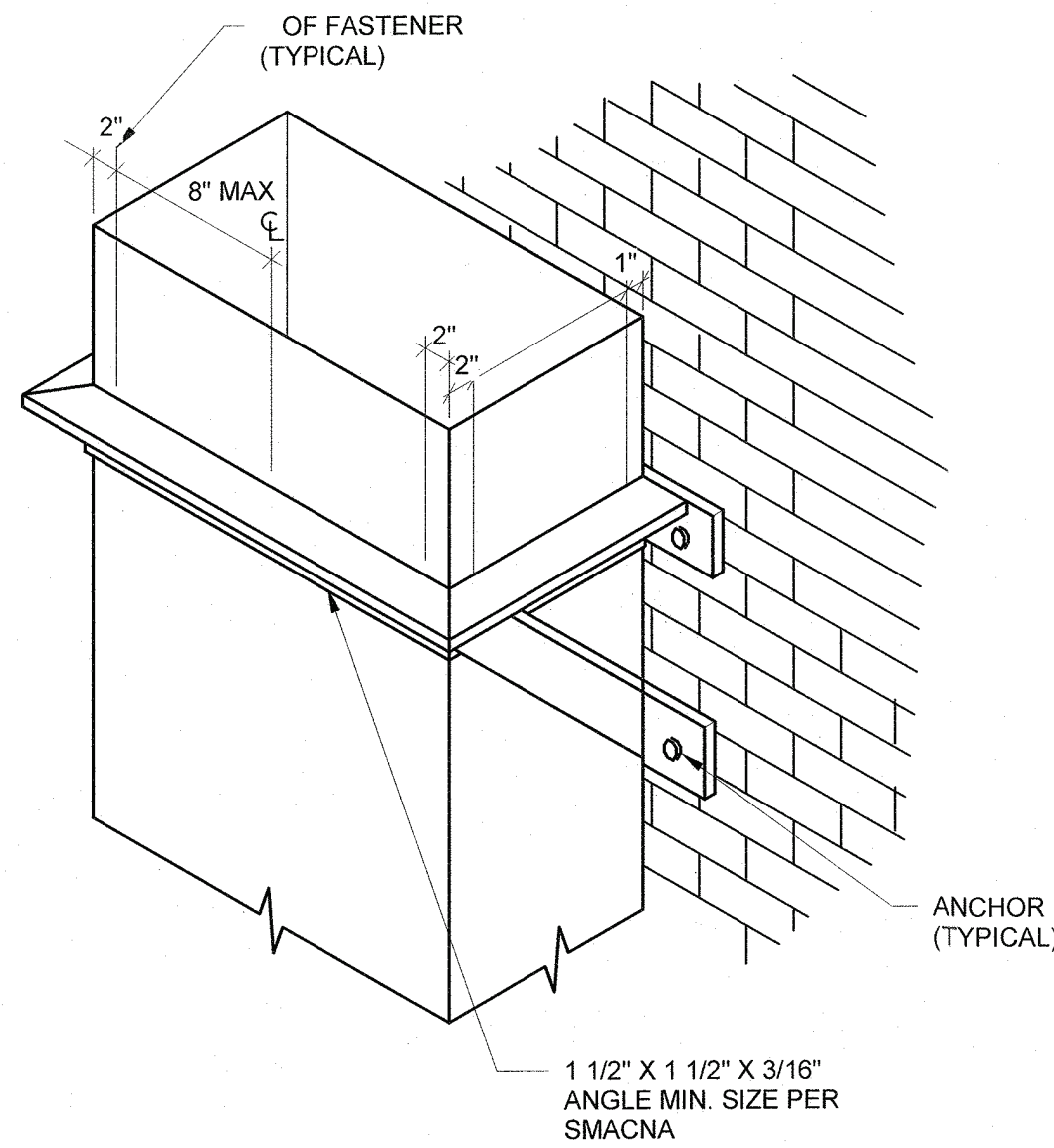


NOTES:

1. VOLUME DAMPERS SHOWN OR SPECIFIED ON THE DRAWINGS ARE IN ADDITION TO DAMPERS SPECIFIED WITH REGISTERS. REGISTER DAMPERS ARE NOT SHOWN ON THE DWGS.

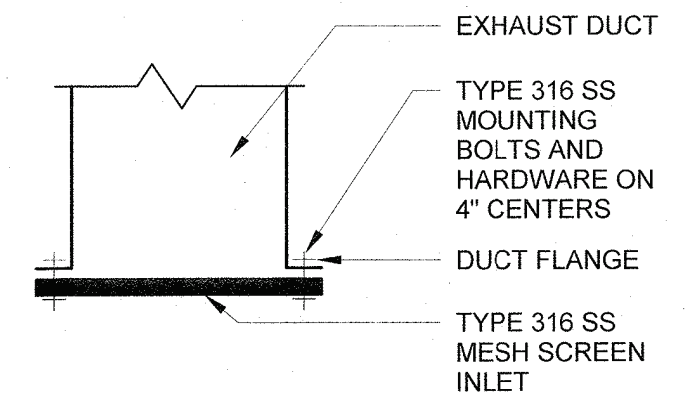
GRILL STUB DUCT DETAIL

NOT TO SCALE



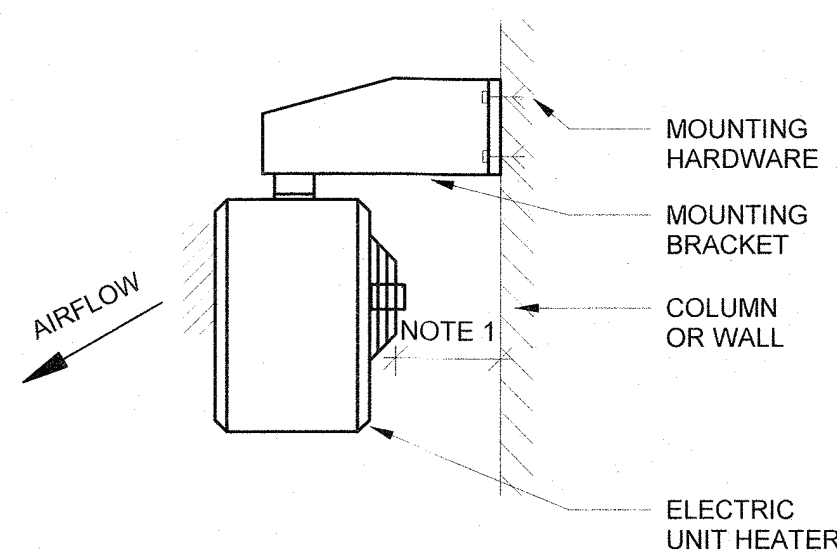
VERTICAL DUCT SUPPORTS FROM WALL DETAIL

NOT TO SCALE



MESH SCREEN DETAIL

NOT TO SCALE

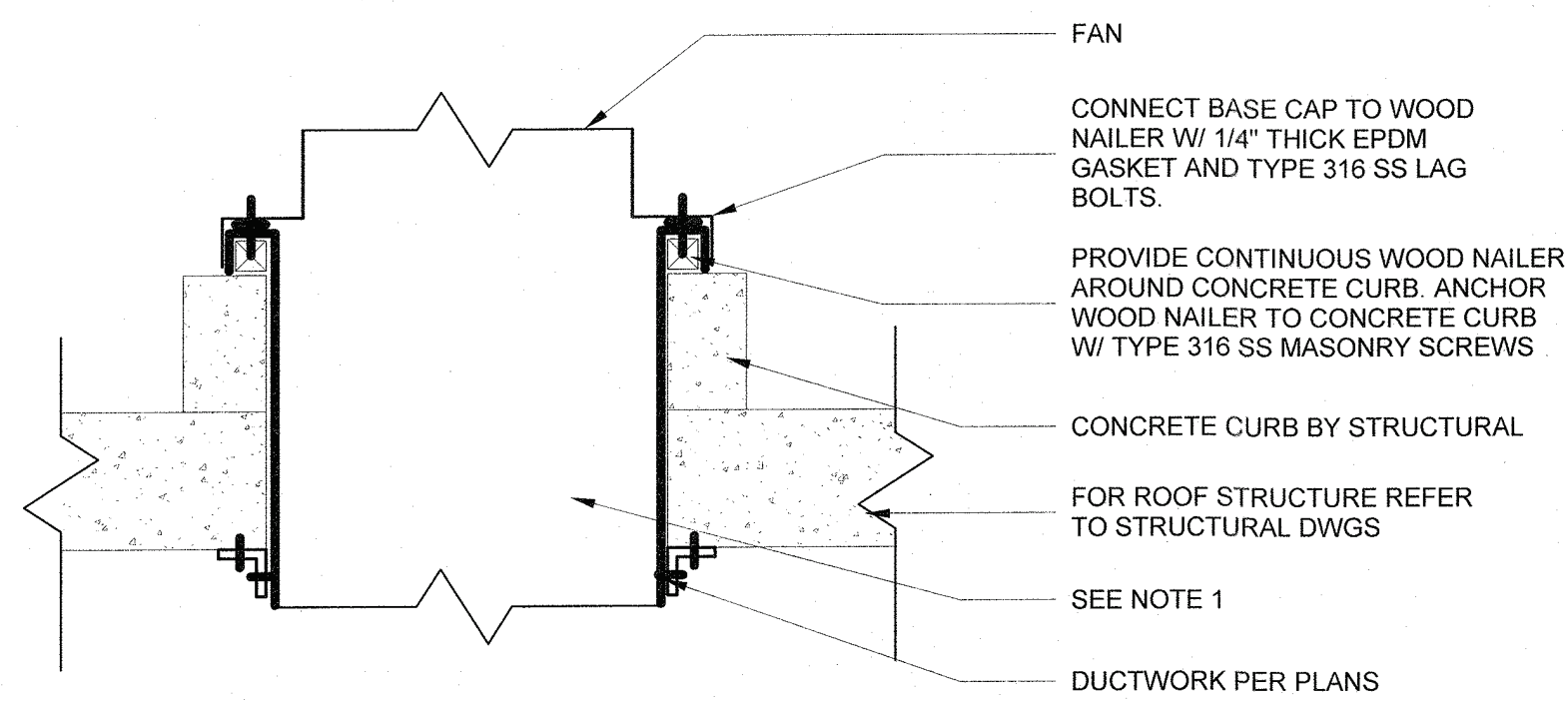


NOTES:

1. MAINTAIN MANUFACTURER'S MINIMUM CLEARANCE REQUIREMENTS.

ELECTRIC UNIT HEATER MOUNTING DETAIL

NOT TO SCALE



NOTES:

1. ELECTRICAL WIRING SHALL NOT BE ROUTED THROUGH DUCTWORK.

EXHAUST FAN ON CONCRETE CURB DETAIL

NOT TO SCALE

				<p>WARNING - IT IS A VIOLATION OF NEW YORK EDUCATION LAW, SECTION 7209.2, FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER THIS DOCUMENT IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK LAW, SECTION 7209.2.</p>																									
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<p>WESTCHESTER COUNTY, NEW YORK</p> <p>DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION</p> <p>DIVISION OF ENGINEERING</p>				<p>CONTRACT NUMBER</p> <p>22-526</p>	<p>SHEET NUMBER</p> <p>H-009</p>																								
<p>REHABILITATION OF WEAVER STREET PUMPING STATION</p> <p>MAMARONECK VALLEY SANITARY SEWER DISTRICT</p> <p>DETAILS</p>				<p>SCALE: 12" = 1'-0"</p> <p>DATE: APRIL 2023</p>	<p>REV NO.</p> <p>205-03-H-115-0</p>																								

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