HVAC DRAWINGS FOR: LINCOLN EQUITIES BUILDING A

SOUTHEAST, NY

SYMBOLS

SQUARE TO SQUARE 45° TAP

ROUND TO ROUND 45° TAP

AUTOMATIC AIR VENT

BUTTERFLY VALVE

FLEX CONNECTOR

FLOW DIRECTION

FLOW SWITCH

GATE VALVE

GLOBE VALVE

PIPE ANCHOR

PIPE "T" DOWN

PIPE GUIDE

PETE'S PLUG

PNEUMATIC VALVE

PRESSURE GAUGE

PRESSURE REDUCING VALVE

PRESSURE SAFETY VALVE

REDUCER (CONCENTRIC)

REDUCER (ECCENTRIC)

SOLENOID VALVE

SUCTION DIFFUSER

THREE WAY VALVE

TRIPLE DUTY VALVE

DEMO PIPE OR EQUIPMENT

CARBON DIOXIDE DETECTOR

CARBON MONOXIDE SENSOR

CONNECT NEW TO EXISTING

DEMOLITION EXTENTS

SMOKE DETECTOR

THERMOSTATIC SENSOR

HUMIDISTAT

SECTION CUT

SECTION

SHEET SECTION

APPEARS ON

PROJECT SITE

NUMBER

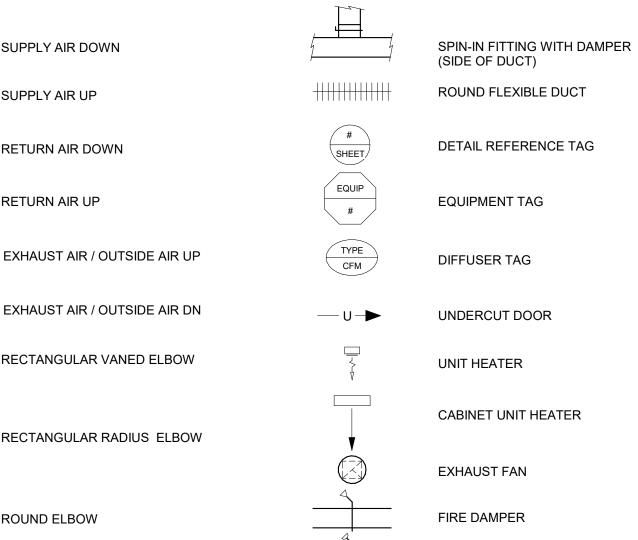
THERMOMETER

PIPE DOWN

HOSE END VALVE

MOTORIZED VALVE

CHECK VALVE **CIRCUIT SETTER**



SMOKE DAMPER

PIPING LINE TYPES

FIRE / SMOKE DAMPER

REFRIGERANT SUCTION

CWS	OUR ED WATER OURREY
	CHILLED WATER SUPPLY
CWR	CHILLED WATER RETURN
CA	COMPRESSED AIR
CD	CONDENSATE DRAIN PIPING
CS	CONDENSER WATER SUPPLY
CR	CONDENSER WATER RETURN
FO	FUEL OIL
G	GAS PIPING
HWS	HEATING WATER SUPPLY
HWR	HEATING WATER RETURN
———HG———	REFRIGERANT HOT GAS
LPS	LOW PRESSURE STEAM
LPC	LOW PRESSURE CONDENSATE
MPS	MEDIUM PRESSURE STEAM
MPC	MEDIUM PRESSURE CONDENSAT
HPS	HIGH PRESSURE STEAM
HPC	HIGH PRESSURE CONDENSATE
RL	REFRIGERANT LIQUID
	CWRCA

* NOTE: NOT ALL PIPING LINE TYPES, SYMBOLS, OR ABBREVIATIONS ARE UTILIZED ON EVERY PROJECT

BUILDING A

ABBREVIATIONS

V	AUTOMATIC AIR VENT	Н	HUMIDITY SENSOR
;	AIR CURTAIN	HEV	HOSE END VALVE
C	AIR COOLED CONDENSER	HP	HORSEPOWER
H	AIR CHANGES PER HOUR	HVLS	HIGH VOLUME LOW SPEED
	ABOVE FINISHED FLOOR		HOT WATER PUMP
	AUTHORITY HAVING JURISDICTION		HEAT EXCHANGER
	AIR HANDLING UNIT		HERTZ
	ALUMINUM		INSIDE DIAMETER
	AMPERE		INTAKE HOOD
	ACCESS PANEL		INCHES OF WATER COLUMN
	AIR PRESSURE DROP		INSTALLATION AND OPERATION MANUAL
	AIR ROTATION UNIT		KILOWATT
	AIR SEPERATOR		LOUVER
			LEAVING AIR TEMPERATURE, (°F)
'			POUNDS
_			LIQUID LINE SOLENOID VALVE
S			LIQUID PETROLEUM GAS
}			LEAVING
)			LEAVING WATER TEMPERATURE (°F)
)D	BACK DRAFT DAMPER	MA	MIXED AIR (OA + RA)
F	BACK DRAFT DAMPER BELOW FINISHED FLOOR BRAKE HORSEPOWER	MAU	MAKE-UP AIR UNIT
IΡ	BRAKE HORSEPOWER	MAX	MAXIMUM
1S	BUILDING MANAGEMENT SYSTEM	MBH	1,000 BTU PER HOUR
D	BOTTOM OF DUCT	MC	MECHANICAL WORK CONTRACTOR
E	BOTTOM OF EQUIPMENT	MCA	MINIMUM CIRCUIT AMPERES
	BOTTOM OF LOUVER		MOTOR CONTROL CENTER
	BOTTOM OF PIPE		MOTORIZED DAMPER
	BOTTOM OF STEEL		MINIMUM
)	BYPASS		MAXIMUM OVER CURRENT PROTECTION
UН	BTU PER HOUR		MAKE-UP WATER
	BAKED WHITE ENAMEL		MANUAL VOLUME DAMPER
	CAPACITY		NORMALLY CLOSED
	CEILING EXHAUST FAN		NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
	CUBIC FEET PER HOUR		NOT IN CONTRACT
	CUBIC FEET PER MINUTE		
	CHILLER		NORMALLY OPEN NUMBER
-	· · · · · · · · · · · · · · · · · · ·		
	CHILLED WATER PUMP		NON POTABLE PROCESS WATER
	CEILING		NOT TO SCALE
	CONNECTION	_	OUTSIDE AIR
	COMPUTER ROOM AIR CONDITIONING UNIT	OD	OUTSIDE DIAMETER
RU	CONDENSATE RETURN UNIT	Р	PUMP
•	COOLING TOWER	PC	PLUMBING WORK CONTRACTOR
J	CONDENSING UNIT	PCF	POUNDS/CUBIC FOOT (DENSITY)
JH	CABINET UNIT HEATER	PH	PHASE (ELECTRICAL)
۷P	CONDENSER WATER PUMP	POS.	POSITION
}	DRY BULB, (°F)	PPH	POUNDS PER HOUR
C	DIRECT DIGITÁL CONTROL	PRV	PRESSURE REDUCING VALVE
)HU	DESICANT DEHUMIDIFICATION UNIT	PSF	POUNDS/SQUARE FOOT (PRESSURE)
SC	DISCONNECT	PSI	POUNDS/SQUARE INCH (ABSOLUTE PRESSURE)
	DOWN	DCIC	DOUNDS/SOUNDE INCU (CAUCE DDESSUDE)

PSIG POUNDS/SQUARE INCH (GAUGE PRESSURE)

PTAC PACKAGE TERMINAL AIR CONDITIONER

REFRIGERATION CONTRACTOR

SEN SENSIBLE COOLING CAPACITY, (BTU/ HR)

TAB TEST AND BALANCE CONTRACTOR TCC TEMPERATURE CONTROL CONTRACTOR

TOT TOTAL NET CAPACITY, (BTU/HR)

TSP TOTAL STATIC PRESSURE

TXV THERMAL EXPANSION VALVE

UON UNLESS OTHERWISE NOTED

VFD VARIABLE FREQUENCY DRIVE

VSD VARIABLE SPEED DRIVE

VTA VENT TO ATMOSPHERE

WPD WATER PRESSURE DROP

VAV VARIABLE AIR VOLUME TERMINAL UNIT

QTY QUANTITY

RLF RELIEF AIR

RLH RELIEF HOOD

SUPPLY AIR

RETURN AIR

RETURN FAN

RELATIVE HUMIDITY

RPM REVOLUTIONS PER MINUTE

SMOKE DAMPER

SEF SMOKE EXHAUST FAN

STAINLESS STEE

STORAGE TANK

TDV TRIPLE DUTY VALVE

SUPPLY FAN

SFT SOFT WATER

STD STANDARD

TA TRANSFER AIR

TEMP TEMPORARY

UH UNIT HEATER

VF VENTILATION FAN

WB WET BULB, (°F) WP WEATHERPROOF

VOLT

TYP TYPICAL

SHADING COEFFICIENT

DOAS DEDICATED OUTSIDE AIR SUPPLY UNIT DEW POINT DIRECT EXPANSION EXHAUST AIR ENTERING AIR TEMPERATURE, (°F) (DB/WB) EBBH ELECTRIC BASEBOARD HEATER ELECTRICAL WORK CONTRACTOR EXHAUST FAN

- ECM ELECTRONICALLY COMPUTATED MOTOR EMS ENERGY MANAGEMENT SYSTEM EQPT EQUIPMENT ERU ENERGY RECOVERY UNIT ESP EXTERNAL STATIC PRESSURE **EXPANSION TANK** EUH ELECTRIC UNIT HEATER EVAP EVAPORATOR (REFRIGERATION) EWH ELECTRIC WALL HEATER EWT ENTERING WATER TEMPERATURE (°F) EXFILTRATION AIR **EXHAUST** FIRE ALARM FCU FAN COIL UNIT
- FIRE DAMPER FINISHED FLOOR FLA FULL LOAD AMPS FPC FIRE PROTECTION CONTRACTOR FPM FEET PER MINUTE FSD FIRE / SMOKE DAMPER FT. HD FEET OF HEAD (PRESSURE DROP) FTU FAN TERMINAL UNIT FIELD VERIFY
- GALLONS GENERAL WORK CONTRACTOR GPM WATER FLOW, (GALLONS PER MINUTE) GPR GAS PRESSURE REGULATOR GUH GAS UNIT HEATER GWH GAS WATER HEATER

SITE MAP

FIRE PUMP HOUSE

OUTDOOR DESIGN CONDITIONS	LOCATION		ZONE	SUMMER 1% (F DB / F WB)	WINTED COO	(F.DD)	SEISMIC		WIND	
					WINTER 99% (F DB)		DESIGN CAT	SITE CLASS	(MPH)	
	SOUTHEAST, NY 5A		5A	9	90.2 / 72.9	9.5		В	D	115
ENVELOPE CONDITIONS	AREA	LOW WALL R-VALUE	UPPER WALL R-VALUE	F	ROOF R-VALUE	GLASS U-VALU		GLASS SC	PART U-VA	TITION ALUE
	WAREHOUSE	1.5	14 (SEE NOTE 1)		20	0.35		N/A	N/A	
APPLICABLE CODES	2020 NY STATE BUILDING CODE									
	2020 NY STATE MECHANICAL CODE									
	2020 NY STATE ENERGY CONSERVATION CODE									
			LO	AD AS	SUMPTIO	NS				
		COOLING	HEATING		PEOPLE		LIGHTING	MISC	OUTDO	OR AIR
ROOM DESIGN PARAMETERS	SPACE TYPE	F / MAX RH	F / MIN RH	SQFT/ PERSON	SENS. GAIN / PERSON (BTUH)	LATENT GAIN / PERSON (BTUH)	W / SQFT	W / SQFT	CFM / PERSON	CFM / SQF
	WAREHOUSE	N/A	55	N/A	N/A	N/A	N/A	N/A	5	0.06

SITE LOCATION MAP

HVAC SHEET LIST CURRENT REVISION NUMBER SHEET NAME **CURRENT REVISION** DESCRIPTION M000 COVER SHEET 08/02/2023 CONSTRUCTION SET OVERALL FLOOR PLAN 08/02/2023 CONSTRUCTION SET OVERALL ROOF PLAN M101 08/02/2023 CONSTRUCTION SET M400 SCHEDULES CONSTRUCTION SET 08/02/2023 M500 DETAILS CONSTRUCTION SET

SECTION 1 – HVAC CRITERIA

THESE DOCUMENTS ARE INTENDED TO PROVIDE ALL DRAWINGS, NOTATIONS, DETAILS, AND SCHEDULES NECESSARY FOR THE INSTALLATION OF A COMPLETE HVAC SYSTEM. THESE DOCUMENTS ARE PREPARED TO EXCLUDE ALL WORK NOT SPECIFICALLY INCLUDED IN THE SET THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY LABOR AND MATERIALS FOR A COMPLETE SYSTEM TO MEET THE INTENT OF

THE DESIGN AND AS INDICATED IN THE DESIGN DOCUMENTS. ANY ACCESSORIES OR MATERIALS OBVIOUSLY A PART OF THE SYSTEM AND

INTEGRAL IN ITS OPERATION, ALTHOUGH NOT SPECIFICALLY MENTIONED HEREIN, SHALL BE FURNISHED AND INSTALLED AS IF CALLED FOR IN

- THIS CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTING COMPLETE AND OPERATING SYSTEMS. THIS CONTRACTOR ACKNOWLEDGES AND HUMAN INTERPRETATION. THIS REPRESENTATION MAY INCLUDE IMPERFECT DATA, INTERPRETED CODES, UTILITY GUIDELINES, THREE-DIMENSIONAL CONFLICTS. AND REQUIRED FIELD COORDINATION ITEMS. SUCH DEFICIENCIES CAN BE CORRECTED WHEN IDENTIFIED PRIOR TO ORDERING MATERIAL AND STARTING INSTALLATION. THIS CONTRACTOR AGREES TO CAREFULLY STUDY AND COMPARE THE INDIVIDUAL CONTRACT DOCUMENTS AND REPORT AT ONCE IN WRITING TO THE DESIGN TEAM ANY DEFICIENCIES THIS CONTRACTOR MAY DISCOVER. THIS
- ALL MATERIAL AND EQUIPMENT USED SHALL BE NEW AND FREE FROM DEFECTS.

DEFICIENCIES DISCOVERED.

- PROVIDE MECHANICAL SYSTEMS IDENTIFICATION TO INDICATE THE TAG. TYPE. FLOW. TEMPERATURE RANGE. CAPACITY. ETC.OF EACH ITEM OF EQUIPMENT AND ALL CONVEYANCES (DUCTWORK AND PIPING SYSTEMS). ALL MAJOR EQUIPMENT SHALL BE PROVIDED WITH LAMINATED PLASTIC NAME PLATES IDENTIFYING THE EQUIPMENT WITH NOMENCLATURE CORRESPONDING TO THE MARKINGS ON THE DRAWINGS. LETTERING SHALL BE 1/2" HIGH. PROVIDE ADHESIVE BACKED PLASTICIZED MARKERS FOR DUCTWORK. PIPING IDENTIFICATION TO FOLLOW ASME 13 STANDARDS. LOCATE LABELINGS TO BE ABLE TO EASILY IDENTIFY PIPING SERVICE. PROVIDE ENGRAVED BRASS OR LAMINATED PLASTIC VALVE TAGES WITH STAINLESS STEEL BALL CHAIN FASTENER. PROVIDE VALVE TAG SCHEDULE WITH CLOSEOUT DOCUMENTS.
- THIS CONTRACTOR SHALL PERFORM WORK IN A SAFE MANNER. COMPLY WITH ALL APPLICABLE OSHA SAFETY GUIDELINES IN ACCORDANCE WITH 29 CFR 1926 OSHA CONSTRUCTION INDUSTRY REGULATIONS DURING THE COURSE OF COMPLETING THE WORK DESCRIBED IN THESE DOCUMENTS.
- THIS CONTRACTOR SHALL KEEP AND MAINTAIN ON SITE A COPY OF ALL SAFETY DATA SHEETS FOR ALL PRODUCTS AND MATERIALS ON SITE
 - WHICH COMPLY WITH THE GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELING OF CHEMICALS. THIS INCLUDES:

MAINTAINING A HAZARD COMMUNICATION PROGRAM DETAILING THE PLANS IN PLACE FOR THE SAFE HANDLING OF CHEMICALS

- MAINTAINING A WRITTEN CHEMICAL INVENTORY OF EVERY HAZARD CHEMICAL IN THE FACILITY TO WHICH EMPLOYEES ARE EXPOSED
- MAINTAINING PROPER LABELS AND WARNING SIGNS ASSOCIATED WITH SAID CHEMICALS
- TRAINING EMPLOYEES ON CHEMICAL HAZARDS AND NECESSARY PRECAUTIONS
- NO CHEMICALS MAY BE STORED IN ANY CONTAINERS OTHER THAN THE ORIGINAL MANUFACTURER'S CONTAINERS
- INSTALL ALL ITEMS PER THE MANUFACTURER'S INSTRUCTIONS AND PROVIDE PROPER ELECTRICAL AND MAINTENANCE CLEARANCES.

- COORDINATE THE ROUTING OF ALL MECHANICAL SYSTEMS WITH THE OTHER TRADES TO AVOID CONFLICTS WITH DUCTS, PIPES, ETC. ITEMS REQUIRING PITCH MUST BE CONSIDERED FOR THEIR RIGHT-OF-WAY.
- GENERAL CONTRACTOR (G.C.) SHALL PROVIDE AND INSTALL ALL PRIMARY STRUCTURAL SUPPORT, UNIFORM LEVEL, FOR ALL FLOOR, CEILING, OR ROOF MOUNTED EQUIPMENT OR COMPONENTS AS DESIGNED BY ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY THE
- THIS CONTRACTOR SHALL FIELD VERIFY LOCATION AND ELEVATION OF ALL EXISTING UTILITIES. ANY DISCREPANCIES SHALL BE RELAYED TO
- ALL LINTELS, FRAMING, FURRING, PATCHING, AND PAINTING REQUIRED WILL BE PROVIDED BY THE G.C.
- ALL GAS PIPING EXPOSED TO WEATHER SHALL BE PAINTED BY THE G.C.
- THE G.C. SHALL PROVIDE ALL PADS AS REQUIRED FOR THE INSTALLATION OF THE HVAC EQUIPMENT. PADS SHALL BE PROVIDED IN ACCORDANCE WITH THE STRUCTURAL ENGINEER'S DESIGN FOR SITE CONDITIONS, WEIGHT, SEISMIC AND WIND CONSIDERATIONS. HEIGHT OF THE PAD SHALL (FOR GRAVITY DRAIN EQUIPMENT) SHALL BE FIELD ADJUSTED BY G.C. BASED ON APPROVED EQUIPMENT SUBMITTALS.
- E.C. SHALL MOUNT AND WIRE/CONNECT ALL 460 VOLT AND 120 VOLT COMPONENTS (RELAYS, FAN WIRING, HIGH LIMITS, SOLENOIDS, CONTROLLERS, ETC...) AND OTHER ELECTRICAL COMPONENTS FURNISHED BY THIS CONTRACTOR. THIS CONTRACTOR IS RESPONSIBLE FOR ALL
- EQUIPMENT IS NOT INTENDED FOR TEMPORARY CONDITIONING UNLESS COORDINATED WITH NDBS AHEAD OF TIME. SHOULD NDBS APPROVE OF TEMPORARY USE, RETURN AIR OPENINGS SHALL BE PROTECTED WITH FILTER MEDIA (MINIMUM MERV 8) WHILE EQUIPMENT IS OPERATED

1.2 CONSTRUCTION

- ALL EQUIPMENT, PIPING SUPPORTS, AND DUCTWORK SUPPORTS SUSPENDED FROM ROOF JOISTS SHALL BE SUSPENDED FROM THE TOP CHORD OF THE JOIST UNLESS PRIOR APPROVAL FROM G.C. OR STRUCTURAL ENGINEER.
- PROVIDE DUCT, PIPING AND HANGER PENETRATIONS THROUGH NON-RATED ENCLOSURES WITH DRAFT STOPPING OR SMOKE BARRIER SEALANT SYSTEMS. INSTALL PENETRATION SEALANT SYSTEMS IN STRICT ACCORDANCE TO MANUFACTURER'S APPLICATION DETAILS AND INSTRUCTIONS. PROVIDE DRAFT STOPPING OR SMOKE BARRIER SEALANTS TO MEET APPROVAL OF AHJ.
- LOCATE AND PROVIDE SCHEDULE 40 STEEL SLEEVES AT ALL CONCRETE PENETRATIONS THROUGH WALLS AND FLOORS PRIOR TO CONCRETE BEING POURED. THIS SUBCONTRACTOR WILL BE RESPONSIBLE TO CORE DRILL ANY HOLE THAT IS NOT LOCATED PRIOR TO CONCRETE POURING, IN WHICH CASE A SLEEVE IS NOT REQUIRED. CORE DRILL HOLE OR SLEEVE SHALL PROVIDE MINIMUM 1" CLEARANCE AROUND ENTIRE CIRCUMFERENCE OF PIPE. CAULK ANNULAR SPACE WATERTIGHT. PROVIDE A LINK SEAL THROUGH ALL PENETRATIONS LOCATED BELOW GRADE
- PROTECT ALL EQUIPMENT, PIPING AND DUCTWORK OPENINGS DURING CONSTRUCTION WITH PLASTIC OR OTHER NON-POROUS MATERIAL TO LIMIT CONTAMINATION FROM DUST AND OTHER CONSTRUCTION DEBRIS. MATERIAL AND EQUIPMENT SHALL BE ELEVATED OFF FLOOR AND

1.3 ACTION SUBMITTALS

- PRODUCT DATA:
 - FOR ALL EQUIPMENT FURNISHED BY THIS CONTRACTOR (1) SHOP DRAWINGS INCLUDING AT A MINIMUM: CAPACITIES, DIMENSIONS, WEIGHTS, ELECTRICAL REQUIREMENTS, FAN AND PUMP

 - LINERS AND ADHESIVES SEALANTS AND GASKETS
 - PIPING SPECIALTIES VALVES

PRESSURE REGULATORS

PIPING SPECIALTIES ITEMS\ INFORMATIONAL SUBMITTALS

- BRAZING AND WELDING CERTIFICATES
- FIELD QUALITY-CONTROL REPORTS

- REFER TO PIPE SCHEDULE FOR PIPE TESTING REQUIREMENTS.
- EQUIPMENT THAT IS NOT INTENDED TO BE SUBJECT TO THE TEST PRESSURE SHALL BE ISOLATED FROM THE PIPING. IF A VALVE IS USED TO ISOLATE THE EQUIPMENT, ITS CLOSURE SHALL BE CAPABLE OF SEALING AGAINST THE TEST PRESSURE WITHOUT DAMAGE TO THE VALVE. FLANGED JOINTS AT WHICH BLINDS ARE INSERTED TO ISOLATE EQUIPMENT NEED NOT BE TESTED.
- PIPE PRESSURE TEST REPORTS ARE REQUIRED AS PART OF THE PROJECT CLOSE OUT DOCUMENTS AND ARE TO INCLUDE WITNESS SIGNATURES. A WRITTEN FIELD PRESSURE TEST DECLARATION SHALL BE PREPARED DOCUMENTING THE FIELD TEST PROCEDURE AS REQUIRED
- BY APPLICABLE CODE AND PROVIDE TO NDBS AND THE BUILDING INSPECTOR PRIOR TO FINAL APPROVAL. DURING PRESSURE TESTING, VERIFY THAT STRESS DUE TO PRESSURE AT BOTTOM OF VERTICAL RISERS DOES NOT EXCEED 90% OF SPECIFIED MINIMUM YIELD STRENGTH OR 1.7 TIMES "SE" VALUE AS LISTED IN ASME B31.9.

SECTION 3 - EQUIPMENT TESTING AND START-UP

- PRIOR TO START-UP PROCEDURES, SUBMITTAL DOCUMENTATION SHALL BE VERIFIED FOR COMPLETENESS AND CORRECTNESS AS IT APPLIES TO ALL INSTALLED EQUIPMENT BASED ON THE CURRENT CONTRACT DOCUMENTS.
- SUBMITTALS SHALL BE COMPARED TO ALL INSTALLED EQUIPMENT AND VERIFICATION MADE THAT EACH DOCUMENT MATCHES THE FINAL
 - TAGGING OF EQUIPMENT AND MODEL NUMBER IS CONSISTENT WITH DOCUMENTS, SUBMITTALS AND NAMEPLATE DATA.
- PHYSICAL DIMENSIONS COINCIDE WITH INSTALLATION INCLUDING SERVICE CLEARANCES.

THIS CONTRACTOR SHALL FILL OUT ALL MANUFACTURER START-UP SHEETS AS A CLOSE OUT DOCUMENT

3. SHIPPED LOOSE ACCESSORIES ARE PROPERLY INSTALLED.

INSTALLATION. THE FOLLOWING ITEMS SHALL BE SPECIFICALLY VERIFIED:

ISSUE FOR CONSTRUCTION



DESIGN/BUILD INDUSTRIAL

WHITE PLAINS, NY 10601 P: 914.821.5535 F: 914.306.6010

44 SOUTH BROADWAY, SUITE 1003

Lincoln Equities Group, LLC

LINCOLN EQUITIES -NY-131- BLDG A

NY-312 & PUGSLEY RD. **SOUTHEAST, NY 10509**

WHITE PLAINS, NY 10601 **CIVIL ENGINEER**

LANGAN ENGINEERING 300 KIMBALL DRIVE PARSIPPANY, NJ 07054

ADBI / DESIGN SERVICES LLC

44 SOUTH BROADWAY, SUITE 1003

SMITH/ ROBERTS AND ASSOCIATES, INC. 6501 BLUFF RD. INDIANAPOLIS, INDIANA 46217

MECHANICAL ENGINEER NATIONAL DESIGN/ BUILD SERVICES 11840 BORMAN DRIVE ST. LOUIS, MO 63146

FXB ENGINEERING 5 CHRISTY DRIVE, SUITE 307 CHADDS FORD, PA 19317

PLUMBING ENGINEER MCCARTHY ENGINEERING ASSOCIATES 315 EAST SECOND STREET BOYERTOWN, PA 19512

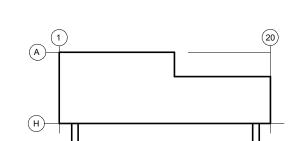
FIRE PROTECTION ENGINEER S A COMUNALE CO. INC. 2900 NEWPARK DRIVE BARBERTON, OH 44203

THE PERSONAL SEAL AFFIXED TO THIS SHEET INDICATES THAT THE PROFESSIONAL ENGINEER WHOSE NAME APPEARS THEREON HAS PREPARED OR HAS OCUMENTS OR INSTRUCTIONS NOT EXHIBITING THE PARTS OR PART OF THE PROJECT IN WHICH THIS SHEE THE RESPONSIBILITY OF THE UNDERSIGNED AND IS

HEREBY DISCLAIMED IN ACCORDANCE WITH SECTION

327.411 2 R.S. MO.

KEY PLAN



SUBMITTALS						
	NO.	DATE	DESCRIPTION			
	Α	02/04/2022	QA/QC SET			
	В	03/29/2022	QA/QC SET			
	С	05/20/2022	QA/QC SET			
	D	06/16/2022	QA/QC SET			
	E	07/01/2022	PERMIT SET			
	F	07/25/2022	BID REVIEW SET			
	G	08/05/2022	BID SET_			
	0	08/02/2023	CONSTRUCTION S			

PROJECT NO. **DRAWN BY** J22006

COVER SHEET

SHEET TITLE