-	MECHANICAL SYMBOLS - GENERAL
	NEW PIPING, DUCTWORK, OR EQUIPMENT
_	EXISTING PIPING, DUCTWORK, OR EQUIPMENT TO REMAIN
	EXISTING PIPING, DUCTWORK, OR EQUIPMENT TO BE REMOVED
	NEW EQUIPMENT
	EXISTING EQUIPMENT TO BE REMOVED
□ _€	EXISTING EQUIPMENT TO REMAIN
	EXISTING EQUIPMENT TO BE REMOVED AND RELOCATED
□RE	RELOCATED POSITION OF EXISTING EQUIPMENT
	CONTINUATION FOR DUCTWORK OR PIPING
	TYPE OF EQUIPMENT (AIR HANDLING UNIT)
AHÜ-1	UNIT NUMBER
•	POINT OF CONNECTION (OF NEW WORK TO EXISTING WORK) OR POINT OF DISCONNECTION (TO REMOVE AND PATCH EXISTING WORK)
Œ.	DRAWING NOTE TAG
Δ	REVISION SYMBOL
	SECTION DESIGNATION ON DRAWING WHERE SECTION IS CUT
(1)	A - SECTION DESIGNATION B - DRAWING NO.
(T)	THERMOSTAT (HAS DISPLAY, OCCUPANT ADJUSTMENT, OR BOTH) TO BE WALL MOUNTED. REFER TO PLANS FOR LOCATION.
18)	TEMPERATURE SENSOR (HAS NO DISPLAY OR OCCUPANT ADJUSTMENT) TO BE WALL OR DUCT MOUNTED, REFER TO PLANS FOR LOCATION.
\$90	DUCT MOUNTED SMOKE DETECTOR
	MECHANICAL ABBREVIATIONS

□ DR		<u></u>	E====	ACOUSTICAL LINING IN DUCT
[] _E	EXISTING EQUIPMENT TO REMAIN	├		TRANSITION FROM RECTANGULAR TO ROUND OR OVAL DUC
	EXISTING EQUIPMENT TO BE REMOVED AND RELOCATED	5 AD	13	ACCESS DOOR IN DUCT
	RELOCATED POSITION OF EXISTING EQUIPMENT	, —-R ,	17	SLOPING RISE IN DUCT IN DIRECTION OF ARROW
□ IRE	CONTINUATION FOR DUCTWORK OR PIPING	_ - 0	15	SLOPING DROP IN DUCT IN DIRECTION OF ARROW
-	TYPE OF EQUIPMENT (AIR HANDLING UNIT)	I 5		MITERED ELBOW WITH TURNING VANES
AHU-1	UNIT NUMBER	1	나	
•	POINT OF CONNECTION (OF NEW WORK TO EXISTING WORK) OR POINT OF DISCONNECTION (TO REMOVE AND PATCH EXISTING WORK)	J.	5	RADIUS ELBOW (INNER RADIUS = WIDTH)
Ø	DRAWING NOTE TAG	, T,		DUCT SPLIT
Δ	REVISION SYMBOL	,		90' BRANCH TAP (USE 45' BOOT, OR CONICAL TAP FOR BRANCH SERVING A SINGLE DIFFUSER/REGISTER ONLY)
(A)	SECTION DESIGNATION ON DRAWING WHERE SECTION IS CUT A — SECTION DESIGNATION B — DRAWING NO.	7		45" BRANCH TAP
0	THERMOSTAT (HAS DISPLAY, OCCUPANT ADJUSTMENT, OR BOTH) TO BE WALL MOUNTED. REFER TO PLANS FOR LOCATION.	1	<u>"</u>	COLIF (CLIDDI V) AD CAMAEDCEMOS (BETLIDA /SYMMICT)
(19)	TEMPERATURE SENSOR (HAS NO DISPLAY OR OCCUPANT ADJUSTMENT) TO BE WALL OR DUCT MOUNTED. REFER TO PLANS FOR LOCATION.	<u></u>	点	SPLIT (SUPPLY) OR CONVERGENCE (RETURN/EXHAUST) RADIUS ELBOW TYPE
<u>\$</u>	DUCT MOUNTED SMOKE DETECTOR	\vdash		SPLIT (SUPPLY) OR CONVERGENCE (RETURN/EXHAUST) MITERED ELBOW TYPE WITH TURNING VANES
	MECHANICAL ABBREVIATIONS			SPLIT (SUPPLY) OR CONVERGENCE (RETURN/EXHAUST) BULLHEAD TYPE
ACU AD	AR CONDITIONING UNIT ACCESS DOOR	7	1777	OFFSET (WITH RADIUS ELBOWS)
AHU	AR HANDLING UNIT		1	
ATC	AUTOMATIC TEMPERATURE CONTROL	H +	T	SUPPLY REGISTER
BMS	BUILDING MANAGEMENT SYSTEM BRITISH THERMAL UNIT			RETURN OR EXHAUST REGISTER
CFM	CUBIC FEET PER MINUTE		1	
cv	CONSTANT VOLUME	Hv0'	100	VOLUME DAMPER
DX EAT	DIRECT EXPANSION ENTERING AIR TEMPERATURE			
FR FR	EXISTING EQUIPMENT TO REMOVED	, ED,	1-10-1	FIRE DAMPER W/DUCT ACCESS DOOR (FD/AD)
ERR	EXISTING EQUIPMENT TO REMOVED AND RELOCATED	·		MOTORIZED DAMPER W/DUCT ACCESS DOOR
EWT	ENTER WATER TEMPERATURE	FXC		
FLA	FULL LOND AMPS	5-000-5	1	FLEXIBLE CONNECTION
FPI	FIN PER INCH FIN TUBE RADIATION			FLEXIBLE DUCT
GPM	FIN TUBE RADIATION GALLONS PER MINUTE	-		
HX	HEAT EXCHANGER	4	, and	MODULAR LINEAR DIFFUSER WITH PLENUM
HZ	HERTZ	_ <u>-</u>		
KW	KILOWATT	7	+ +	
LAT	LEAVING AIR TEMPERATURE	1 🚡	l Ti~	BRANCH TAKEOFF TO CEILING DIFFUSER/REGISTER
MBH	THOUSAND BTU PER HOUR	-	l M	
MCA	MINIMUM CIRCUIT AMPS	- <u>\$</u> -	STIPPLY CELLIN	G DIFFUSER (4-WAY BLOW)
NC	NORMALLY CLOSED	7	SUPPLI CELIN	O DIFFOSER (4-WAT BEOM)
NIC	NOT IN CONTRACT	+⊠+	SUPPLY CEILIN	G DIFFUSER (3-WAY BLOW)
NK NO	NECK SIZE NORMALLY OPEN	+		
NO NTS	NOT TO SCALE	+ -	SUPPLY CEILIN	G DIFFUSER (2-WAY BLOW)
OED	OPEN END DUCT	$\vdash =$		
PH	PHASE		SUPPLY CEILIN	G DIFFUSER (1-WAY BLOW)
PSI	POUND PER SQUARE INCH	00 8/600)		AND CFM (CUBIC FEET PER MINUTE). REFER TO
PSIA	POUNDS PER SQUARE INCH ABSOLUTE	CD-B(500)	SCHEDULE.	. NED OF A COURSE FEET FER MINUTE). REFER TO
PSIG	POUNDS PER SQUARE INCH GAUGE		RETURN CEILIN	G GRILLE OR REGISTER
RE	RELOCATED POSITION OF EXISTING EQUIPMENT		TERMINAL BOX	(CV, VAV, FP). DESIGNATION INDICATES TYPE, BOX IL QUANTITY (REFER TO SCHEDULES).
RE:	REFER TO	WW-B(500)		
TYP	TYPICAL	VAV-B(500)	TERMINAL BOX TYPE, BOX SIZ	WITH REHEAT COIL (CV, VAV, FP). DESIGNATION INDICATES E AND CFM. QUANTITY (REFER TO SCHEDULES).
VN	VENT WOLTS	1— SA —	SA	SUPPLY AR DUCT
VFD	VARIABLE FREQUENCY DRIVE		-	
WMS	WIRE MESH SCREEN	5— RA — 3	RA	RETURN AIR DUCT
		OA	OA -	OUTSIDE AIR INTAKE DUCT
		5—EXH—5	EXH	EXHAUST DUCT
				l

	FOLIANIO	AL OVARDOLO, DUOTAVODIA		FOLIANIO	AL OVARDOL LIGT. DIDINO					
		AL SYMBOLS - DUCTWORK	M	ECHANIC	AL SYMBOL LIST - PIPING					
18X12	18X12	DUCT SIZE (FIRST FIGURE INDICATES HORIZONTAL SIZE)			DIRECTION OF FLOW IN PIPE					
, 180	18#	ROUND DUCT DIAMETER			PITCH PIPE DOWN IN DIRECTION OF ARROW					
	₩3	SUPPLY OR OUTSIDE AIR INTAKE DUCT UP		50	ELBOW TURNED UP					
⊞⊸	⊠-	SUPPLY OUTSIDE AIR INTAKE DUCT DOWN			ELBOW TURNED DOWN					
		RETURN OR EXHAUST DUCT UP	Ť	9	BOTTOM PIPE CONNECTION					
<u></u>		RETURN OR EXHAUST DUCT DOWN	₽		TOP PIPE CONNECTION					
		ACOUSTICAL LINING IN DUCT		alessia	FLEXIBLE CONNECTION					
<u></u>		TRANSITION FROM RECTANGULAR TO ROUND OR OVAL DUCT								
1 AD 1	13	ACCESS DOOR IN DUCT	***	a •b	BALL VALVE					
, —R,		SLOPING RISE IN DUCT IN DIRECTION OF ARROW	₩		GATE VALVE					
		SLOPING DROP IN DUCT IN DIRECTION OF ARROW			GLOBE VALVE					
		MITERED ELBOW WITH TURNING VANES	<u> </u>		CHECK VALVE (ARROW INDICATES FLOW DIRECTION)					
J	Ð	RADIUS ELBOW (INNER RADIUS = WIDTH)			AUTOMATIC THREE-WAY CONTROL VALVE					
,]	因	DUCT SPLIT	A		AUTOMATIC TWO-WAY CONTROL VALVE					
,]		90' BRANCH TAP (USE 45' BOOT, OR CONICAL TAP FOR BRANCH SERVING A SINGLE DIFFUSER/REGISTER ONLY)		akb	PRESSURE REDUCING VALVE					
1	1	45° BRANCH TAP		apple	PLUG VALVE					
,	- T-1		⊷ااسن		BUTTERFLY VALVE (MANUAL)					
$ \vdash $		SPLIT (SUPPLY) OR CONVERGENCE (RETURN/EXHAUST) RADIUS ELBOW TYPE		₫⋈ Þ	CIRCUIT SETTER/BALANCING VALVE					
1		SPLIT (SUPPLY) OR CONVERGENCE (RETURN/EXHAUST) MITERED ELBOW TYPE WITH TURNING VANES	-=-	<u></u>	PIPE GUIDE					
1				a	EXPANSION JOINT					
		SPLIT (SUPPLY) OR CONVERGENCE (RETURN/EXHAUST) BULLHEAD TYPE	→		CONCENTRIC REDUCER (ARROW INDICATES FLOW DIRECTION)					
7		OFFSET (WITH RADIUS ELBOWS)	<u>~</u>	44	ECCENTRIC REDUCER (ARROW INDICATES FLOW DIRECTION)					
-		SUPPLY REGISTER		4	UNION					
1 → 1 	17	RETURN OR EXHAUST REGISTER			CAPPED PIPE					
· Lvo	T VD	VOLUME DAMPER	- A	a 26	"Y" TYPE STRAINER WITH BLOW DOWN VALVE					
₩.FD	FD	FIRE DAMPER W/DUCT ACCESS DOOR (FD/AD)	-		PIPE SLEEVE					
. Б.,		MOTORIZED DAMPER W/DUCT ACCESS DOOR	⊩—	PIPE FLANGE						
FXC		,	 101	VALVE IN VERT	ICAL PIPE					
5-mi-5		FLEXIBLE CONNECTION	, 4	MANUAL AIR V	ENT					
*****		FLEXIBLE DUCT	, Å,	AUTOMATIC AIR	VENT					
أربو	T	MODULAR LINEAR DIFFUSER WITH PLENUM	,,	THERMOMETER						
		MODULAN LINEAR DIFFUSER WITH PLENUM	⊢—⊔	PIPE SENSOR	WELL					
T W		BRANCH TAKEOFF TO CEILING DIFFUSER/REGISTER	, X	PRESSURE GAI	JGE WITH SHUT OFF VALVE					
-			0	PUMP						
	SUPPLY CEILIN	G DIFFUSER (4-WAY BLOW)	←DTWS→		TURE HOT/CHILLED WATER SUPPLY					
+ -	SUPPLY CEILIN	G DIFFUSER (3-WAY BLOW)	←DTWR→ ←LPS→		TURE HOT/CHILLED WATER RETURN E STEAM SUPPLY					
-1	SUPPLY CEILIN	G DIFFUSER (2-WAY BLOW)	5—LPR—5		E STEAM CONDENSATE RETURN					
				CONDENSATE D	RAIN LINE (GRAVITY)					
		G DIFFUSER (1-WAY BLOW)	5PD5	PUMPED DRAIN						
CD-B(500)		AND CFM (CUBIC FEET PER MINUTE). REFER TO	5—CHWS—	CHILLED WATER	S SUPPLY					
		G GRILLE OR REGISTER	5—CHWR—5	CHILLED WATER	RETURN					
WW-B(500)		(CV, VAV, FP). DESIGNATION INDICATES TYPE, BOX I. QUANTITY (REFER TO SCHEDULES).	s—HWS—s	HOT WATER SU	PPLY					
WW-B(500)	TERMINAL BOX TYPE, BOX SIZ	WITH REHEAT COIL (CV, VAV, FP). DESIGNATION INDICATES E AND CFM. QUANTITY (REFER TO SCHEDULES).	s—HWR—s	HOT WATER RE	TURN					
1— SA — 1	SA	SUPPLY AIR DUCT	5—GLR—-	GLYCOL WATER RETURN						
5— RA —5	RA	RETURN AIR DUCT	⊱—GLS——	GLYCOL WATER	SUPPLY					

NEW YORK STATE CODES & STANDARDS
2020 BAUDING CODE OF HIGH YORK STATE 2020 FRE CODE OF HIGH YORK STATE 2020 FRUMBRING CODE OF HIGH YORK STATE 2020 FRUMBRING CODE OF HIGH YORK STATE 2020 OF HIGH YORK STATE 2020 MYS UNFORM CODE SUPPLIESTED WITH COLUMN CODE SUPPLIESTED WITH COLUMN CODE SUPPLIESTED
NEW YORK STATE ENERGY CODES
2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE 2016 ASHRAE 90.1
REFERENCED STANDARDS
APPLICABLE REFERENCE STANDARDS SHALL BE AS REFERENCED BY ALL STATE CODES. THE LIST BELOW IS FOR QUICK REFERENCE AND DOES NOT INCLUDE ALL APPLICABLE REFERENCE STANDARDS.
2016 NPFA 13 — STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS 2016 NPFA 14 — STANDARD FOR THE INSTALLATION OF STANDARD FAM HASE SYSTEMS 2016 NPFA 20 — SWANDARD FOR THE INSTALLATION OF STANDARD FAMES FOR THE PROTECTION 2017 NPFA 70 — NATIONAL FEE AUXIL AND STANDARD CODE

MECHANICAL DRAWING LIST										
Sheet Number	Sheet Title									
IS M001	MECHANICAL COVER SHEET									
IS M002	MECHANICAL GENERAL NOTES									
4S M100	MECHANICAL PLAN - BASEMENT									
4S M101	MECHANICAL PLAN - FIRST FLOOR									
IS M701	MECHANICAL DETAILS									

EASTCHESTER UNION FREE SCHOOL DISTRICT 2022 CAPITAL PROJECT PHASE 4

HIGH SCHOOL

ARCHITECT

LYON PLACE
WHITE PLANS, NY 10601
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MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT STANTEC 30 GAK STREET, SUITE 400 STAMFORD, CT 08/05

HAZARDOUS MATERIALS CONSULTANT WSP ONE PENN PLAZA 250 W SATH ST, 4TH FLOOR NEW YORK, NY 10014



SHEET

HS M001

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MECHANICAL GENERAL NOTES

- THESE SOMEONE ARE EXPERTLY DEPOMANTIC AN AREA STEDIOR TO CONSY THE DESCRIPTION OF THE PROPERTY DEPOMANTIC AND AREA STEDIOR TO CONSY THE DESCRIPTION AND PRINCE THE CONTINUE OF SHALL AND REPORT THE SECONDARIOS AND COCKEY AS POSSES. HOWEVER, THE BOTH IS RESERVED THE VIEW THE REAS OF DUTTHOOR AND PRINCE HOWEVER, THE DIST IS RESERVED TO WHIT THE REAS OF DUTTHOOR AND PRINCE AND SECONDARIOS AND SECONDA
- C. HE DOWNING NO S'ECCICATIONS STUDIED. LE INTERPRETED SO AS TO REQUIRE THE MOST SUBSTANIRAL AND COMPREHENSIVE PERFORMANCE OF THE WORK, CONSISTENT WITH THE RESTET AND REQUIREMENTS OF THE CONTRACT COUNTRY, AND SUCH WORK SHALL BE PERFORMED OF THE CONTRACTOR WHICH SHALL BE PERFORMED OF THE CONTRACTOR WHICH SHALL BE PERFORMED OF THE CONTRACTOR SHALL ROTTER THE DIAMETER OF MAY DISCREPANCY VAN RPI PRORT TO ERECORNER STANKE AND STANKE SHALL ROTTER THE DIAMETER OF ANY DISCREPANCY VAN RPI PRORT TO ERECORNER STANKE SECURITIES WHICH SHALL ROTTER THE DIAMETER OF ANY DISCREPANCY VAN RPI PRORT TO PERFORMANT DE ASSOCIATION DIAM.
- . ANY MATERIAL, WORK, OR INCIDENTAL ACCESSORIES OR MINOR DETAILS NOT SHOWN BUT INCESSARY TO MAKE THE WORK COMPLETE IN ALL RESPECTS AND READY FOR OPERATION, EVEN IF NOT PARTICULARLY SHOWN ON THE DRAWINGS, SHALL BE PROVIDED BY THE CONTRICTION WITHOUT ADDITIONAL EXPENSE TO THE OWNER.
- . DUCT SIZES SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS, WHERE ACOUSTICALLY LINED DUCT IS SPECIFIED, OUTER DUCT DIMENSIONS SHALL BE INCREASED TO ACCOMMODATE LINING.
- WHERE WORK IS INDICATED TO BE BY OTHER CONTRACTORS, FOR EXAMPLE: "BY GENERAL CONSTRUCTION CONTRACTOR", THIS WORK IS NOT IN THE HARC/MECHAL CONTRACT, EACH CONTRACTOR WILL BE RESPONSIBLE FOR CLOSE COORDINATION OTHER CONTRACTORS" WORK.
- REFER TO APPROPRIATE SPECIFICATION SECTION FOR EQUIPMENT SELECTION PARAMETERS WHERE DRAWINGS DO NOT CONTAIN EQUIPMENT SCHEDULES.
- 7. FOR AR SYSTEMS, THE MECHANICAL CONTINUTION SHALL INCLUDE IN 800 PRICING SUPPLYING AND INSTITUTION SHALL INCLUDE IN MEDICAL STREAM, PROPERTY OF THE AND DOWNST BORNON DOURNING, REMOVED SIT POLICIES FOR ALL SUPPLY, RETURN, AND DOWNST BORNON DOURNESS OF THE AND DOWNST BORNON DOURNESS OF THE ANGEL STREAM, AND A CRESSING CREATED FOR CONCRUDE THE OFFICE ALL BROAND CHARGE OFFICE AND CREATED FOR CONCRUDING SITE OF THE OFFICE ALL BROAND CHARGE OFFICE AND CREATED FOR CONCRUDING SITE OFFICE AND CONCRUDING SITE OFFI SITE OF
- INSTALL THERMOSTATS, FAN SPEED CONTROLLERS, AND OTHER ROOM OCCUPANT ADJUSTBALE CONTROLS WITH TOP OF EDNICE 4"-O" ABOVE FINISHED FLOOR OF DEDICTED OTHERWISE BY ADDUCTING CONCRINATE EXACT LOCATIONS WITH THE ARCHITECTURAL PLANS. BEVICE COLORS TO BE SELECTED BY THE ARCHITECT, MANUFACTURERS LOOG STALL AND THE EMPOSED.
- WHERE PIPING CONNECTIONS FOR EQUIPMENT SUCH AS PUMPS, AC UNITS, COILS, ETC. DIFFER FROM THE LINE SIZE PIPING, IT SHALL BE THE RESPONSIBILITY OF THE MICHARIOLA CONTRACTOR TO TRUNKING AND INTELL THE RECESSARY REDUCER/EXPANDER FITTINGS TO ENABLE CONNECTION BETWEEN THE PIPING SYSTEM AND THE COUPMENT.
- NO THE DOPPMENT AND LIMELED FIRE DOMPRES IT ALL DUT EPRETRICIONS OF THE PROPERTY OF THE PROPER
- INFORMER LISTED AND LIBELED COMBINATION FIRE/SMOKE DIMPERS AT ALL DUCT PRESENTATIONS THROUGH THE AND SMOKE NATE WILLS AND TROOKS, REGINALIES FOR THE PRESENCE DESIRED SHAPE OF THE PRESENCE DESIRED SHAPE AND FIRE SMOKE CONTROL PINEL. ALL COMBINATION SHAPE AND FIRE SMOKE CONTROL PINEL. ALL COMBINATION CONTROL PINEL. ALL COMBINATION CONTROL PINEL SHAPE CONTROL PINEL. ALL COMBINATION CONTROL PINEL SHAPE CONTROL PINEL. ALL COMBINATION CONTROL PINEL SHAPE CONTROL PINEL
- PROVIDE FIRESTOPPING FOR ALL DUCT, PIPE, AND CONDUIT PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS.
- 13. WHERE DUCTS AND PIPES PENETRATE FIRE AND/OR SMOKE RATED WALLS, LI MINNUM OF 2 INCHES CLEAR ABOVE THE DUCTS AND PIPES, SUCH THAT TH MECHANICAL CONTRACTOR CAN SEAL THE WALL ABOVE THE DUCTS. DO NOT FLEXIBLE DUCTWORK THROUGH FIRE AND/OR SMOKE RATED WALLS.
- 14. PROVIDE ESCUTCHEON PLATES WHERE DUCTS OR PIPES PENETRATE CEILINGS, WALLS OR FLOORS WHERE EXPOSED TO VIEW IN FINISHED AREAS. ESCUTCHEONS FOR DUCTS. SHALL BE CONSTRUCTED OF THE SAME MATERIAL AS DUCT. PIPE ESCUTCHEONS SHALL BE CHEOMET—PLATED BRASS.
- The MECHANIC ON CONTRICTOR SHALL DE MODE AND PROCHE SUPPLYING AND ASSESSMENT THROUGH THE PROPERTY CONTRICTOR SHALL DE MEDICAL DE MEDICAL CONTRICTOR SHALL DE MEDICAL DE MEDICAL CONTRICTOR DE MANDRA SHALL DE MEDICAL DE MEDICAL DE MEDICAL CONTRICTOR DE MEDICAL DE M
- 16. ALL DUCTWORK AND PPING REQUIRING FIRE RATING AND WHERE SHOWN ON PLANS SHALL BE PROVIDED WITH ULL LISTED FIRE-RATED DUCT WARP WITH APPROPRIATE FIRE RATING (1-HOUR, 2-HOUR, ETC.), JUNESS A FIRE-RATED ACHIETCHEAL ENCLOSURE IN THAT LOCATION IS SPECIFIED WITHIN DRAWINGS AND SPECIFICATIONS FOR ANOTHER TRADE.
- 17. ALL LIMEN DEFISERS ARE DIS COORDINATED WITH ARCHITECTURAL PLANS FOR THE CONTROL OF THE CONT
- 18. BORDER TYPES AND METHOD OF ATTACHMENT FOR ALL DIFFUSERS, GRILLES, AND REGISTERS SHALL BE COORDINATED WITH THE ARCHITECTURAL CEILING DETAILS AND SPECIFICATIONS
- 19. REFER TO SPECIFICATIONS FOR ACOUSTIC LINING REQUIREMENTS NOT SHOWN ON THE
- 20. FOR MITTER SYSTEMS: THE MEDIANOIS CONTRACTOR SMALL NICLUSE IN BID PRICING WAVE FOR ALL BRANCH PRIVE RECOMES IF MALES ARE NOT SKEMN IN CONTRACT DO COLUMENS. ALL SHAPE PROFESSIONE FUNDS ARE NOT SKEMN IN CONTRACT DOCUMENTS. ALL SHAPE OF WAYES SHALL BE FALL PORT AND PRESSURE RIGHT FOR SYSTEM PRESSURE. THE BULANCIAN UALL SHALL BE SHAPE OF AND PRICING MEDIANOIS WAYER SHAPE BE SHAPE OF AND PRICING MEDIANOIS WAYER SHAPE SHAPE
- 21. THE MECHANICAL CONTRACTOR SHALL INCLUDE IN BID PRICING SUPPLYING AND INSTALLING SECONDARY DRAIN PAINS FOR ALL AR CONDITIONING CELLING HUNG EQUIPMENT REPORTEDS IF DRAIN PAINS ARE NOT SHOWN IN CONTRACT DOCUMENTS. REFER TO DETAIL FOR INSTALLITION OF DRAIN PAINS. IF NO DETAIL IS SHOWN. CONTRACTOR MUST REQUEST DRAIP AND DETAIL HIGH PROFESS DURNE BIDDING.
- CONTINUENT MOST RELOCATION FOR MET AND LEGILL THE OFF I PROCESS DURING BOUND.

 2. THE MECHANICAL CONTRACTOR SHALL INCLIDE IN BOF PROMOS SUPPLING AND
 INSTALLING CONDENSATE PRING FOR ALL COCKING THE EDURINGS HE CONDENSATE PRING S NOT SHARL INCLIDENT AND CONDENSATE PRING S NOT SHARL INCLIDENT AND CONDENSATE PRING S SHOWN, CONTRACTOR MUST REQUEST CONDENSATE F. NO CONDENSATE PRING IS SHOWN, CONTRACTOR MUST REQUEST CONDENSATE F. PRING ROTHER THAN ITS BURNER SHOWN THAT THE PRING ROTHER THAN ITS BURNER SHOWN.

MECHANICAL GENERAL NOTES (CONT.)

- 23. GENERAL NOTES, SYMBOLS, ABBREVIATIONS, AND DETAILS ARE APPLICABLE TO ALL HUAD / METCHANICAL DRAWINGS
- 24. RELOCATE EXISTING WORK THAT INTERFERES WITH WORK OF THIS CONTRACT. 25 COORDINATE THIS WORK WITH THAT OF OTHER TRADES
- 26. DIMENSIONS SHOWN ON PLAN ARE HORIZONTAL. DIMENSIONS SHOWN IN ELEVATION ARE VERTICAL, EXCEPT IN WAY OF STRUCTURAL STEEL, DIMENSIONS ARE MEASURED PERPENDICULAR TO FUNCE.
- 27, PRODUCT INSTALLATION SHALL ADHERE TO MANUFACTURERS' RECOMMENDATIONS.
- 28. PROVIDE ACCESS PANELS IN DUCTS AND CEILINGS/SOFFITS/WALLS/FLOORS IN S. MODIZE ACCESS YMMES IN DUCTS AND CELLING/SCRIPTIS/MALS/YLDOR'S IN ACCORDANCE WITH MANUFACTURERS' RECOMMENSATIONS FOR ALL CONCRUCE EXPENSE OF THE RECOMMENSATION FOR ALL CONDITIONS OF THE PAIRS, CONDIDIONAL PUMPS, THE COMPRES, COMMENTION FIRE/SMOKE DAMPERS, AND DUCT MOUNTED SMOKE DETECTORS, MATCH THE RATING OF CELLING/SOFTH/MALL/FLOOR WHERE APPLICABLE.
- 29. PROVIDE HANGERS, INSERTS, ANCHORS, SUPPLEMENTAL STEEL & SUPPORTS AS REQUIRED TO SUPPORT DUCTWORK. PIPING AND EQUIPMENT FROM STRUCTURE.
- 30. SCHEDULE WORK OF THIS SECTION TO AVOID INTERFERING WITH EXISTING OPERATIONS IN THE FACILITY.
- 32. RUN DUCTS AND PIPING CONCEALED, UNLESS OTHERWISE SPECIFIED, AND CLEAR OF CHILING INSERTS.
- PROVIDE CLEARANCE IN FRONT OF ALL ELECTRIC CONTROL PANELS PER N.E.C. AND EQUIPMENT MANUFACTURERS' REQUIREMENTS.
- PRIOR TO SUBMISSION OF SHOP DRAWINGS, COORDINATE WITH ELECTRICAL CONTRACTOR TO VERIFY VOLTAGES AVAILABLE FOR MECHANICAL EQUIPMENT.
- 35. MOTOR STARTERS AND VARIABLE FREQUENCY DRIVES FOR HIVAC EQUIPMENT SHALL BE FUNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED/MIRED BY THE ELECTRICAL CONTRACTOR, LINLESS OTHERWISE NOTED. COORDINATE AND VERIFY WITH ELECTRICAL CONTRACTOR PRIOR TO SHOP DRAWING SUBMISSION.
- 36. ALL DISCONNECT SWITCHES FOR HAZE EQUIPMENT SHALL BE FURNISHED, INSTALLED, AND WRED BY THE ELECTRICAL CONTRACTOR, UNLESS INTEGRAL TO HAZE EQUIPMENT OR OTHERWISE MOTED. COORDINATE AND VERIFY WITH ELECTRICAL CONTRACTOR PROOR TO SHOP DRIVINING SUBMISSION.
- 37. USE FLAT TRANSVERSE SEAM FOR DUCTWORK WHERE SPACE AVAILABLE DICTATES.
- 38. BRANCH DUCTS TO INDIVIDUAL DIFFUSERS AND REGISTERS SHALL BE THE SAME SIZE AS THE DIFFUSER OR REGISTER NECK, UNLESS OTHERWISE NOTED.
- 39. ALL DUCTWORK SHALL BE INSTALLED TIGHT TO BOTTOM OF STRUCTURAL MEMBERS UNLESS OTHERWISE NOTED OR ABSOLUTELY REQUIRED BY FIELD CONDITIONS.
- 40. DO NOT INSTALL DUCTWORK DIRECTLY UNDER AND PARALLEL TO THE WEB OF STRUCTURAL MEMBERS. OFFSET IN ORDER TO ALLOW PUTURE DUCTWORK AND PIPING TO CROSS OVER IN BETWEEN STRUCTURAL MEMBERS.
- 41. BRANCH DUCTS TO INDIVIDUAL DIFFUSERS AND REGISTERS SHALL BE PROVIDED WITH VOLUME DAMPERS, WHETHER OR NOT THE VOLUME DAMPERS ARE SHOWN
- 42. VOLUME DAMPERS LOCATED ABOVE INACCESSIBLE CEILINGS SHALL BE CABLE OPERATED TYPE, WITH CABLE OPERATORS LOCATED IN ACCESSIBLE LOCATIONS AND CLEARLY LABELED FOR DIFFUSER OR REGISTER SERVED.
- 43. UNLESS OTHERWISE NOTED, ALL EXPOSED DUCTWORK IN FINISHED SPACES SHALL BE SPIRAL ROUND OR FLAT OWAL TYPE, WITH SOLID OUTER WALL, PERFORATED INNER WALL, 1 INCH THICK INTERSTITIAL ACOUSTICAL LINING, AND FLAT SEAMS.
- 44. ALL PIPING SHALL BE INSTALLED TIGHT TO BOTTOM OF STRUCTURAL MEMBERS UNLESS OTHERWISE NOTED OR ABSOLUTELY REQUIRED BY FIELD CONDITIONS.
- 45, DO NOT INSTALL PIPING DIRECTLY UNDER AND PARALLEL TO THE WEB OF STRUCTURAL MEMBERS. OFFSET IN ORDER TO ALLOW FUTURE DUCTWORK AND PIPING TO CROSS OVER IN BETWEEN STRUCTURAL MEMBERS.
- 46. CONDENSATE DRAIN (CD) AND CONDENSATE PUMP DISCHARGE (PD) PIPING SHALL BE RIGID COPPER, TYPE L, MINIMUM 3/4" NOMINAL PIPE SIZE, BRAZED OR SOLDFRED. WITH 1" INSULATION. UNLESS OTHERWISE NOTED ON DRAWNINGS.
- 47. ALL NEW AND EXISTING INSULATED HVAC PIPING EXPOSED TO VIEW IN FINSHED SPACES SHALL BE PROVIDED WITH PVC JACKETS.
- 48. WHERE DOSTING DUCTS, PIPES, LOUVERS, ORBLES, WRES, CONDUITS, AND SLABS ARE REMOVED BY THE MECHANICAL CONTRACTOR RE-MECHANICAL CONTRACTOR SHARP SHA
- 49. WHERE NEW DUCTS, PIPES, LOUVERS, GRILLES, WRES, AND CONDUITS INSTALLED BY THE MECHANICAL CONTRACTOR PENETRATE EMSTING WALLS, PARTITIONS, SHAPTS, OLARSS, AND SAUSS THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING NEW OPENIORS AND PRESTORMEN. PROVIDE NEW MICHAEL SHAPE OF THE OFFICE OF THE OPENIORS AND CRESTORMEN. PROFUNCTION SECTION 055000.07 HIS OFFICE PARTITION OF THE OFFICE OF THE OPENIORS AND CRESTORMEN SHAPE PERCENCION 055000.07 HIS OFFICE PARTITION OF THE OPENIORS AND CRESTORMEN SHAPE PERCENCION 055000.07 HIS OFFICE PARTITION OF THE OPENIOR OPENIOR OF THE OPENIOR O

- DIFFICURED FOR OPENINGS IN ACCIDINACE WITH SPECIFICATION SECTION OF COSCO.

 50. DEE NO DISTING FERRANDET INNS. ARE EXPERIENT MAY BE USED BY CONTRACTORS OF COSCO.

 50. THE NO DISTING FERRANDET INNS. ARE EXPERIENT MAY BE USED BY CONTRACTORS OF COSCO.

 50. CONTRACTOR TO PROVIDE THAT SPECIFICATION OF WATER AND CONTRACTORS.

 50. THE SPECIFICATION OF COSTO, COSTO

MECHANICAL DEMOLITION GENERAL NOTES

- DEMOLITION NOTES, SYMBOL LIST, AND DETAILS ARE APPLICABLE TO ALL
- ALL PIPING IN WALLS AND FLOORS NOT TO BE REUSED WILL BE PLUGGED OR CAPPED, AND CUTTING AND PATCHING WILL BE PERFORMED TO RESTORE SURFACE TO ORIGINAL CONDITION BY THIS CONTRACTOR.
- AFTER REMOVING PIPE THROUGH THE FLOOR SLABS, PACK OPENING WITH APPROVED FIRE-RATED PACKING.
- THE CONTROLTOR SHALL INCLUDE IN HIS PRICE ALL COSTS ASSOCIATED WITH REMOVAS AND RELOCATIONS OF HAVE, ROOK AS DESCRIBED ON THE DRAWNES OF THE PROPERTY OF THE P
- THE CONTRACTOR SHALL PERFORM DEMOLITION AND REMOVAL WORK WITH MINIMUM INTERFERENCE WITH FUNCTIONING HVAC SYSTEMS. ALL AFFECTED SYSTEMS SHALL BE RECONNECTED AND RESTORED.
- DEMOUTION AND REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANDER. THE CONTRACTOR SHALL PATCH, REPAIR, OR OTHERMISE RESTORE ANY DAMAGED INTERIOR OR EXTERIOR BUILDING SURFACE TO ITS ORIGINA CONDITION.
- THE CONTRACTOR SHALL REMOVE ALL DUCT AND PIPING SUPPORTS, ETC. FROM PARTITIONS THAT ARE TO BE REMOVED, WHERE THE REMOVAL OF THESE ITEMS DISRUPTS EXSTEMS PIPING THAT IS TO REMAIN, THE CONTRACTOR SHALL INSTALL AND PROVIDE BYPASS CONNECTIONS NECESSARY.
- ALL PIPING WHICH BECOMES EXPOSED DURING THE ALTERATION WORK SHALL BE REAVED AND REROUTED CONCEALED BEHIND FINISHED SURFACES.
- PORTIONS OF PIPING AND DUCTWORK TO BE REMOVED OR ABANDONED AS A RESULT OF DEMOLITION WORK, BUT WHICH ARE REQUIRED TO REMAIN ACTIVE, SHALL BE CUT AT CONVENIENT LOCATIONS, REROUTED, AND RECONNECTED.
- 10. THE CONTRACTOR SHALL NOTIFY THE OWNER AT THE APPROPRIATE TIME OF THE PROJECTED DEMOLITION AND PHASING SCHEDULE, SO THAT REMOVAL OR RELOCATION OF AFFECTED UTILITIES MAY BE CARRIED OUT IN COORDINATION WITH THE PROJECT REQUIREMENTS.
- . ALL EXISTING MATERIAL AND EQUIPMENT IN USABLE CONDITION, WHICH IS TO BE REMOVED UNDER THIS CONTRACT, SHALL REMAIN THE PROPERTY OF THE OWNER OR SHALL BE DISPOSED OF BY THE HVAC CONTRACTOR, AS DIRECTED BY THE
- . ARRANGE TO WORK CONTINUOUSLY, INCLUDING OVER TIME, IF REQUIRED, TO ASSURE THAT SYSTEMS WILL BE SHUT DOWN ONLY DURING THE TIME ACTUALLY REQUIRED TO MAKE THE NECESSARY CONNECTIONS TO THE EXISTING SYSTEMS.
- THE SHUTDOWN OF EXISTING BUILDING HWAC SERVICES SHALL BE COORDINATED WITH WITH THE OWNER. MAKE ARRANGEMENTS AT LEAST FIVE (5) BUSINESS DAY PRIOR TO A SHUTDOWN.
- 14. CONTRACTOR SHALL COMPLY WITH ALL FEDERAL STATE, AND LOCAL REQUIREMENTS
- 15. WHER THE LEMOLING, OF EXCEIDE PREMATE CONTROL EQUIPMENT
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EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT PHASE 4

HIGH SCHOOL



MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT STANTEC 30 OAK STREET, SUITE 400 STAMFORD, CT 08905

HAZARDOUS MATERIALS CONSULTANT

HAZARDOUS MATERIALS COT WSP ONE PENN PLAZA 250 W 34TH ST, 4TH FLOOR NEW YORK, NY 10014



PROJECT NO. 68-03-01-03-0-001-02

MEMASI PROJECT NO. MECHANICAL **GENERAL NOTES**

HS M002



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STOR

BASEMENT STORAGE 3

STOR

BOILER ROOM

STORAGE 001

JAN

PHOTO LAB

BOILER ROOM 002

STAIR

VAULT LIP.

ROOM 015

ROOM (1178)

ROOM DIX

ROOM DTF

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OR SLAW, MIRKEY CONTROLS COMPONENTS DITTER A SAWIT OR
CHASE, OF ANY THEORY CENTRE SAMPACE.

DEMOLITION GENERAL NOTES - CUTTING AND PATCHING:

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BOYS LOCKER ROOM

GIRLS LOCKER ROOM

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LOCKER RM

CORR 012H

STOR 012G

- BRANCH DUCTS TO INDIVIDUAL DIFFUSERS AND REGISTERS SHALL BE THE SAME SIZE AS THE DIFFUSER OR REGISTER NECK, UNLESS OTHERWISE NOTED.
- ALL DUCTWORK SHALL BE INSTALLED TIGHT TO BOTTOM OF STRUCTURAL MEMBERS UNLESS OTHERWISE NOTED OR ABSOLUTELY REQUIRED BY FIELD

GENERAL NOTES - PIPING:

MEN 010 WOMEN 011

GYM 012

- G. ALL PIPING SHALL BE INSTALLED TIGHT TO BOTTOM OF STRUCTURAL MEMBERS UNLESS OTHERWISE NOTED OR ABSOLUTELY REQUIRED BY FIELD CONDITIONS.
- ALL NEW AND EXISTING INSULATED HVAC PIPING EXPOSED TO VIEW IN FINSHED SPACES SHALL BE PROVIDED WITH PVC JACKETS.
- GENERAL NOTES CUTTING AND PATCHING: K. WHERE NEW EQUIPMENT, DUCTS, PIPES, LOUVERS, ORBLES, WIRES, AND CONDUITS INSTALLED BY THE MECHANICAL CONTRACTOR PENETRATE EXISTING CONTRACTOR SHALL BE RESPONSIBLE FOR CUITING NEW OFFENDRS AND FIRESTOPPING. PROVIDE NEW LINELS FOR NEW OPENINGS IN ACCORDANCE WITH SPECIFICATIONS SECTION 055000.

L. MECHANICAL CONTRACTOR TO REMOVE AND REINSTALL CEILING TILES AS NEEDED TO FAGUITATE THE MECHANICAL SCOPE OF WORK, EXCEPT IN AREAS WHERE CEILING REMOVAL/REPLACEMENT IS INDICATED AS GENERAL CONTRACTOR BASE SCOPE ON THE ARCHITECTURAL REPLECTED CEILING PLANS.

PROVIDE NEW TOILET EXHAUST BRANCH DUCTWORK AND COLING REGISTERS WITHIN THE AREA OF RENOVATION, TIED—IN TO EXISTING—TO—REMAIN EXHAUST FANS AND DUCTWORK DISTRIBUTION, AND RE—BALANCE.

CORR 0128

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MEMASI PROJECT NO

MECHANICAL PLAN -BASEMENT

HS M100

EASTCHESTER UNION FREE

ARCHITECT

SCHOOL DISTRICT

2022 CAPITAL PROJECT PHASE 4 HIGH SCHOOL

	FAN SCHEDULE																													
DESIGNA	ION LOCA	ATION A	AREA SERVED	SERVICE	CONFIGURATION	DRIVE	AIRFLOW	EXTERNAL	TERNAL BHP RPM MHP ELECTRICAL DATA										PHYSICAL	WEIGHT	SONES	MANUFACTURER	MODEL	REMARKS						
						TYPE	(CFM)	STATIC				VOLTS	LTS PH Hz FLA DISCONNECT STARTER EMER.								DIMENSIONS	(LBS)								
								PRESSURE							BY E	C. OR L	OCATION	TYPE	ENCLOSURE	BY M.C. OR	LOCATION	TYPE	ENCLOSURE	POWER	LxWkH					
								(IN WC)							MAN	UF.			TYPE	MANUF.			TYPE	(Y/N)						
EF-HS-	-2 OFFIC	CE 103	BATHROOM	TOILET EXHAUST	CEILING	DIRECT	50	0.25	N/A	887	6W	115	1	60 0.29	E.	C.	PLENUM	DISC	NEMA-1	MANUF.	NA	N/A	N/A	N	11X14X9	12	2	GREENHECK	SP-A50-VG	SEE NOTES BELOW
EF-HS-	-3 OFFICE	E 105A	BATHROOM	TOILET EXHAUST	CEILING	DIRECT	50	0.25	N/A	887	6W	115	1	60 0.29	E.	C.	PLENUM	DISC	NEMA-1	MANUF.	NA	N/A	NIA	N	11X14X9	12	2	GREENHECK	SP-A50-VG	SEE NOTES BELOW
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1.1. BU	LT-IN BAROI	METRIC E	BACKDRAFT D	AMPER.																										
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DEMOLITION GENERAL NOTES - CONTROLS:

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DEMOLITION GENERAL NOTES - CUTTING AND PATCHING:

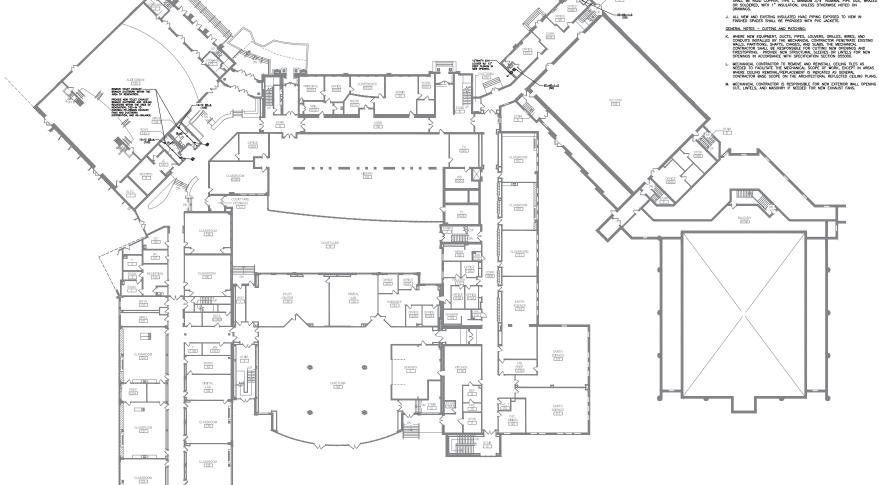
Democration Learners, molta— CULTINI, MOD. PROCINISC, B. WHERE ESTIME GOSPHERIN, DUCKS, PPES, LOUVES, GRILLES, COMPROS, WHES, COMMISS, WHES, COMMISS, WHE PERMANDER THROUGH FROM COMMISSION OF THE MICHAEL OF THROUGH FOR THE MICHAEL OF THROUGH FOR THE MICHAEL OF THROUGH FOR THROUGH F

GENERAL NOTES - DUCTWORK:

- A. BRANCH DUCTS TO INDIVIDUAL DIFFUSERS AND REGISTERS SHALL BE THE SAME SIZE AS THE DIFFUSER OR REGISTER NECK, UNLESS OTHERWISE NOTED.
- B. ALL DUCTWORK SHALL BE INSTALLED TIGHT TO BOTTOM OF STRUCTURAL MEMBERS UNLESS OTHERWISE NOTED OR ABSOLUTELY REQUIRED BY FIELD CONDITIONS.

GENERAL NOTES - PIPING:

- G. ALL PIPING SHALL BE INSTALLED TIGHT TO BOTTOM OF STRUCTURAL MEMBERS UNLESS OTHERWISE NOTED OR ABSOLUTELY REQUIRED BY FIELD CONDITIONS.



MECHANICAL PLAN - FIRST FLOOR

ARCHITECT MEMASI

EASTCHESTER UNION FREE

SCHOOL DISTRICT

2022 CAPITAL PROJECT PHASE 4 HIGH SCHOOL

MECHANICAL/ELECTRICAL/PLUMBING CONSULTAN STANTEC 30 CAK STREET, SUITE 400 STAMFORD, CT 00905

HAZARDOUS MATERIALS

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MECHANICAL PLAN -FIRST FLOOR

HS M101

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