PROJECT GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH CURRENT FEDERAL, STATE, AND LOCAL CODES AND ORDINANCES AS WELL AS THE CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL REPORT ANY CONFLICTS TO THE ENGINEER AS SOON AS THEY ARE DISCOVERED.
2. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE A.D.A.A.G. (AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES).
3. THE CONTRACTOR SHALL REVIEW THE DRAWINGS AND SPECIFICATIONS PRIOR TO BIDDING JOB AND DURING CONSTRUCTION. EXCEPT AS OTHERWISE NOTED, THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, MATERIALS, AND LABOR FOR A COMPLETE PROJECT AS SHOWN IN THE DRAWINGS AND SPECIFICATIONS. DRAWINGS AND SPECIFICATIONS CARRY EQUAL IMPORTANCE AND ITEMS LISTED IN EITHER SHALL BE FURNISHED AS IF LISTED IN BOTH. ALSO REVIEW DETAILS AND RISER DIAGRAMS FOR ADDITIONAL ITEMS/INSTRUCTIONS WHETHER SPECIFICALLY REFERRED TO ON PLANS OR NOT.
4. THE CONTRACTOR MUST VISIT THE SITE TO FAMILIARIZE HIMSELF WITH THE EXISTING SITE CONDITIONS WHICH WILL BE AFFECTED DURING CONSTRUCTION PRIOR TO SUBMITTING HIS BID PROPOSAL, INCLUDING THE EXTENT OF DEMOLITION AND CONFLICTS WITH PLANS.
5. DRAWINGS ARE DIAGRAMMATIC IN NATURE AND SHOW THE GENERAL INSTALLATION OF EQUIPMENT AND MATERIALS IN RELATIONSHIP TO STRUCTURE AND OTHER TRADES. THEY MAY NOT SHOW EVERY REQUIRED OFFSET, FITTING, ETC. CONTRACTOR SHALL FIELD VERIFY ACTUAL JOB CONDITIONS AND COORDINATE WORK WITH OTHER TRADES PRIOR TO BIDDING JOB AND PRIOR TO ORDERING EQUIPMENT, FABRICATION OF MATERIALS, OR STARTING WORK. CONTRACTOR SHALL NOT SCALE THE DRAWINGS.
6. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL ITEMS THAT AFFECT OTHER DISCIPLINES WITH THE CORRESPONDING CONTRACTOR AND THE GENERAL CONTRACTOR IF EQUIPMENT, MATERIALS, ETC. OTHER THAN THOSE SCHEDULED AND SPECIFIED (PENDING PRE-APPROVAL) ARE FURNISHED.
7. CHANGE ORDERS WILL NOT BE GRANTED DUE TO LACK OF COORDINATION WITH JOB CONDITIONS AND/OR OTHER CONTRACTORS.
8. EXISTING EQUIPMENT, DUCTWORK, AND PIPING SIZES AND LOCATIONS ARE SHOWN FOR REFERENCE ONLY. ADJUST EXACT INSTALLATION AND CONNECTION OF NEW ITEMS ACCORDING TO ACTUAL CONDITIONS.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR STORAGE OF RELOCATED EQUIPMENT AND MATERIALS DURING CONSTRUCTION. ITEMS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
10. UPON COMPLETION OF THE PROJECT THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS TO THE OWNER, ARCHITECT, AND ENGINEER SHOWING EQUIPMENT, DUCTWORK, PIPING, ETC. THAT DIFFERS FROM CONSTRUCTION DOCUMENTS AS THEY ARE ACTUALLY INSTALLED.
11. THE RESPONSIBILITY OF EACH CONTRACTOR IS NOT LIMITED TO THEIR SPECIFIC DISCIPLINE'S DRAWING SHEETS. REFER TO OTHER DISCIPLINES' DRAWING SHEETS AS REQUIRED FOR ADDITIONAL INFORMATION/INSTRUCTIONS.
12. FIRE STOP ALL PENETRATIONS THRU RATED WALLS. SLEEVE IN ENTIRETY WITH APPROPRIATE SLEEVE MATERIAL.

MECHANICAL GENERAL NOTES

1. ALL DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS. SEE SPECIFICATIONS FOR INSULATION REQUIREMENTS.
2. FLEX DUCT RUNOUTS SHALL NOT EXCEED 5'-0" IN LENGTH AND SHALL NOT BE SPLICED.
3. INSTALL BALANCING DAMPERS IN EACH GRILLE/DIFFUSER DUCT RUNOUT NOT BEING PROVIDED WITH OBD AT GRILLE (SEE GRILLES, REGISTERS, AND DIFFUSERS SCHEDULE). LOCATE DAMPERS ABOVE ACCESSIBLE CEILINGS.
4. UPON COMPLETION OF INSTALLATION/MODIFICATION OF NEW & EXISTING HVAC SYSTEMS, ALL SYSTEMS SHALL BE BALANCED BY A 3RD PARTY NEBB CERTIFIED BALANCING CONTRACTOR. SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS.
5. TRANSITION FROM DUCT SIZE SHOWN ON PLANS TO EQUIPMENT CONNECTION SIZE AT CONNECTION TO EQUIPMENT.
6. REFER TO PLUMBING FIXTURE SCHEDULE FOR PIPING RUNOUT SIZES TO INDIVIDUAL PLUMBING FIXTURES.
7. DO NOT ROUTE ANY PIPING OVER ELECTRICAL ROOMS, COMPUTER ROOMS, OR ELECTRICAL PANELS.
8. WATER PIPING INSTALLED IN EXTERIOR WALLS SHALL BE INSTALLED ON CONDITIONED SIDE OF INSULATION.
9. ALL DOMESTIC WATER PIPING IN CEILING SPACE SHALL BE ROUTED BELOW CEILING INSULATION.
10. PROVIDE PRESSURE REDUCERS AS REQUIRED IN WATER SUPPLY LINES TO KEEP PRESSURE BELOW 70 PSI AT ALL OUTLETS.
11. PROVIDE APPROVED BACKFLOW PREVENTION OR ANTI-SIPHON DEVICES AT ALL FIXTURES THAT COULD CONTAMINATE THE POTABLE WATER SYSTEM.
12. RELOCATE EXISTING VENTS THRU ROOF AS REQUIRED BY NEW & RELOCATED EQUIPMENT TO MAINTAIN MINIMUM 10'-0" CLEARANCE FROM OUTSIDE AIR INTAKES. COORDINATE WITH M.C.
13. ALL GAS PIPING INSTALLED IN CEILING PLENUMS SHALL BE ENCASED IN METALLIC SLEEVE AND VENTED TO OUTSIDE.
14. PROVIDE NEOPRENE VIBRATION ISOLATORS FOR ALL MECHANICAL EQUIPMENT PER MANUFACTURERS INSTALLATION INSTRUCTIONS.
15. THE M.C. SHALL COORDINATE ALL ROOF OR FLOOR PENETRATIONS WITH THE EQUIPMENT BEING PROVIDED BY THE CONTRACTOR, STRUCTURAL MEMBER LAYOUT, AND GENERAL CONTRACTOR. IF THE M.C. ELECTS TO PROVIDE EQUAL EQUIPMENT WHICH IS NOT SCHEDULED OR DESIGNED ON THESE DRAWINGS, THE M.C. SHALL BE FULLY RESPONSIBLE FOR ANY REQUIRED CURBS OR COORDINATION NECESSARY TO INSTALL THE EQUAL EQUIPMENT. ANY DEVIATIONS FROM THE DRAWINGS DUE TO EQUAL EQUIPMENT PROVIDED FOR DUCTWORK ROUTING OR CURB EQUIPMENT WHICH MAY AFFECT EQUIPMENT EXTERNAL STATIC PRESSURE OR EQUIPMENT PERFORMANCE SHALL BE THE RESPONSIBILITY OF THE M.C.
16. ALL DEVIATIONS AND ADDITIONAL OFFSETS INSTALLED BY THE M.C. WHICH ARE NOT INDICATED ON THESE PLANS FOR DUCTWORK ROUTING SHALL BE COORDINATED WITH THE EXTERNAL STATIC PRESSURE OF THE EQUIPMENT PROVIDED. IF ADDITIONAL EQUIPMENT EXTERNAL STATIC PRESSURE IS REQUIRED DUE TO THE M.C. PROVIDING OFFSETS OR DUCT TAKE-OFFS NOT INDICATED ON THESE PLANS, THE M.C. SHALL BE RESPONSIBLE FOR PROVIDING EQUIPMENT WHICH WILL HANDLE THE ADDITIONAL OFFSETS AND/OR REDESIGN COSTS FOR THE ENGINEER TO MODIFY THE PLANS TO ACCOMMODATE THE ADDITIONAL STATIC PRESSURE REQUIREMENTS.
17. ALL RECTANGULAR ELBOWS REGARDLESS OF SIZE, SHALL BE PROVIDED WITH TURNING VANES PER THE SPECIFICATIONS.

MECHANICAL SYMBOL LIST

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SUPPLY AIR DOWN	XXXX/XXX	GRD TAG
	SUPPLY AIR UP AND THRU		REVISION TAG
	RETURN AIR DOWN		ROUND FLOOR DRAIN
	RETURN AIR UP AND THRU		SQUARE FLOOR DRAIN / FLOOR SINK
	EXHAUST AIR DOWN		FLOOR CLEANOUT
	EXHAUST AIR UP AND THRU		WALL / END CLEANOUT
	MANUAL DAMPER		SHUT-OFF VALVE
	MITERED ELBOW WITH TURNING VANES		SOLENOID VALVE
	RADIUSED ELBOW		2 WAY CONTROL VALVE
	CONNECT/REMOVE TO EXISTING		3 WAY CONTROL VALVE
T	THERMOSTAT		PRESSURE REDUCING VALVE
H	HUMIDISTAT		CHECK VALVE
M	MOTORIZED DAMPER ACTUATOR		CIRCUIT SETTER
XXX-X	EQUIPMENT / PLUMBING FIXTURE TAG		STRAINER
#	KEYED NOTE		UNION
	DIRECTION OF AIRFLOW		FLOW DIRECTION ARROW
BD	BACKDRAFT DAMPER		PIPE BREAK
CD	CONTROL DAMPER		PIPE CAP
	FIRE/SMOKE DAMPER		PIPE REDUCER
	FIRE DAMPER		
	SMOKE DAMPER		

ABBREVIATIONS

ABBREV-IATIONS	DESCRIPTION	ABBREV-IATIONS	DESCRIPTION
A	AMPERES	HWC	DOMESTIC HOT WATER CIRCULATING
A/V	AUDIO/VISUAL	IG	ISOLATED GROUND
AFF	ABOVE FINISHED FLOOR	IP	INTERNET PROTOCOL
AFG	ABOVE FINISHED GRADE	J-BOX	JUNCTION BOX
AHJ	AUTHORITIES HAVING JURISDICTION	LTG	LIGHTING
ATS	AUTOMATIC TRANSFER SWITCH	MAX	MAXIMUM
BFC	BELOW FINISHED CEILING	MC	MECHANICAL CONTRACTOR
BFG	BELOW FINISHED GRADE	MCA	MINIMUM CIRCUIT AMPACITY
C	CONDUIT	MIN	MINIMUM
CB	CIRCUIT BREAKER	MOCP	MAXIMUM OVERCURRENT PROTECTION
CLG	CEILING	(N)	NEW
CO	CLEANOUT	NC	NORMALLY CLOSED
CT	MOUNTED 6" ABOVE COUNTER TOP	NL	NIGHT LIGHT
DCW	DOMESTIC COLD WATER	NO	NORMALLY OPEN
DHW	DOMESTIC HOT WATER	NTS	NOT TO SCALE
DN	DOWN	OA	OUTSIDE AIR
(E)	EXISTING TO REMAIN	P	POLE
EA	EXHAUST AIR	PRV	PRESSURE RELIEF VALVE/REDUCING VALVE
EC	ELECTRICAL CONTRACTOR	(R)	RELOCATE/RELOCATED
EM	DEVICE ON EMERGENCY CIRCUIT OR WITH AN EMERGENCY BATTERY	RA	RETURN AIR
		SA	SUPPLY AIR
FCO	FLOOR CLEANOUT	SPD	SURGE PROTECTIVE DEVICE
FLA	FULL LOAD AMPS	TCC	TEMPERATURE CONTROLS CONTRACTOR
FVNR	FULL VOLTAGE NON-REVERSING	TP	TAMPER PROOF OUTLET COVERS
FVR	FULL VOLTAGE REVERSING	TR	TAMPER RESISTANT DEVICE
FWD	FORWARD	TYP	TYPICAL
FPC	FIRE PROTECTION CONTRACTOR	UCT	MOUNTED UNDER COUNTER TOP
GC	GENERAL CONTRACTOR	UON	UNLESS OTHERWISE NOTED
GCO	GRADE CLEANOUT	V	VOLTS
GEC	GROUNDING ELECTRODE CONDUCTOR	VTR	VENT THRU ROOF
GFI / GFCI	GROUND FAULT INTERRUPTER	WCO	WALL CLEANOUT
G/GND	GROUND	WP	WEATHER PROOF
HP	HORSE POWER	WPI	WP IN SERVICE (WITH PLUG IN SERVICE)
		WR	WEATHER RESISTANT TYPE DEVICE

LINETYPES LEGEND

	EXISTING/REFERENCE	G	NATURAL GAS
	EXISTING TO BE DEMOLISHED	HPS	HIGH PRESSURE STEAM SUPPLY
	WORK TO BE DONE	HPR	HIGH PRESSURE STEAM RETURN
	DOMESTIC COLD WATER	HWS	HEATING WATER SUPPLY
	DOMESTIC HOT WATER	HWR	HEATING WATER RETURN
	DOMESTIC HOT WATER CIRCULATING	LPS	LOW PRESSURE STEAM SUPPLY
	SANITARY SEWER / WASTE	LPR	LOW PRESSURE STEAM RETURN
	VENT	MA	MEDICAL AIR
	REFRIGERANT - HARD COPPER	MV	MEDICAL VACUUM
	REFRIGERANT - SOFT COPPER	N	NITROGEN
	COMPRESSED AIR	N20	NITREOUS OXIDE
	CONDENSATE DRAIN	O	OXYGEN
	CONDENSER WATER SUPPLY	OD	OVERFLOW ROOF DRAIN
	CONDENSER WATER RETURN	PCR	PUMPED STEAM CONDENSATE RETURN
	CHILLED WATER SUPPLY	RD	ROOF DRAIN
	CHILLED WATER RETURN	V	VACUUM

MECHANICAL CONTACTS

MECHANICAL DESIGN
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CODE INFORMATION

2018 INTERNATIONAL MECHANICAL CODE
2018 INTERNATIONAL PLUMBING CODE
2018 INTERNATIONAL FUEL AND GAS CODE

DESIGN CRITERIA

LOCATION:	WICHITA, KS	
ELEVATION:	1299'	
DESIGN CLIMATIC CONDITIONS: (PER 2017 ASHRAE FUNDAMENTALS 0.4/99.6% CRITERIA)	COOLING:	100°F DB / 73°F WB
	HEATING:	0°F DB
DESIGN INDOOR CONDITIONS:	COOLING:	76°F DB
	HEATING:	70°F DB

SHEET LIST TABLE

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PHASE 8 INDOOR FACILITY AND STADIUM IMPROVEMENTS

STRYKER SPORTS

WICHITA, KANSAS

11/23/21

MECHANICAL COVERSHEET

PROJECT NO.	1701010567
DATE	11-24-2021
SCALE	AS NOTED

DESIGNED	DRAWN	CHECKED
RLB	JAC	RLB

NO.	REVISION	DATE
0	ISSUED FOR CONSTRUCTION	11-24-21

SHEET NO.
SM0.1

GLMVArchitecture