Image: state	PLUMBING PIPES:	PIPE FITTINGS AND VALVES:	DUCTWORK:	LUMINAIRES:	WIRING DEVICES AND OUTLETS: F	FIRE ALARM:	ELECTRICAL NOTATIONS
	DOMESTIC COLD WATER	SHUT-OFF VALVE (BALL OR GATE AS SPECIFIED)	BRANCH DUCT WITH 45 DEGREE BOOT FITTING	"A" RECESSED LIGHT FIXTURE, TYPE & CONTROL	REFER TO SPECIFICATION SECTION 260533 RACEWAYS AND BOXES FOR INSTALLATION HEIGHTS AND	WS WATER FLOW SWITCH	AC THESE LETTERS ADJAC INDICATE DEVICE BOT COUNTERTOP BACKSP
		BALANCING VALVE WITH PRESSURE PORTS	BRANCH DUCT WITH BELLMOUTH SPIN-IN FITTING	(x) ZONE "A" LIGHT FIXTURE, TYPE & CONTROL ZONE - (x) EMERGENCY	COORDINATION OF LOCATION REQUIREMENTS.	TS VALVE TAMPER SWITCH FR FAN SHUTDOWN RELAY	IG THESE LETTERS ADJAG INDICATE ISOLATED GF
		TRIPLE DUTY VALVE WITH PRESSURE PORTS		"A" LIGHT FIXTURE, TYPE & CONTROL ZONE - DUAL LEVE (x,z) SWITCHING	EL \$3 THREE-WAY 120/277 VOLT SWITCH		SS THESE LETTERS ADJA INDICATE SURGE SUPF
			ELBOW WITH TURNING VANES	"A" LIGHT FIXTURE AND TYPE - NIGHT LIGHT - UNSWITCH	HED \$4 FOUR-WAY 120/277 VOLT SWITCH \$_ 120/277 VOLT SWITCH WITH PILOT LIGHT	FIRE ALARM STROBE - CEILING MOUNTED	TR THESE LETTERS ADJA INDICATE TAMPER RE
		MOTORIZED THREE-WAY VALVE	RETURN, EXHAUST OR FRESH AIR DUCT UP	HORIZONTAL LINE IN SYMBOL INDICATES ORIENTATION OF CENTER "BASKET" IN ARCHITECTURAL FIXTURES	\$ K KEYED 120/277 VOLT SWITCH	F MANUAL FIRE ALARM PULL STATION OF FIRE ALARM BELL	WP THESE LETTERS ADJ/ INDICATE WEATHER-F
					\$ WPWEATHERPROOF 120/277 VOLT SWITCH\$ 2DOUBLE POLE, 120/277 VOLT SWITCH	FIRE HORN AND STROBE - WALL MOUNTED	WPI THESE LETTERS ADJ. INDICATE WEATHER-
				 A RECESSED ROOND CAN EIGHT FIXTURE AND TYPE A SUSPENDED ROUND LIGHT FIXTURE AND TYPE 	\$ D 120/277 VOLT DIMMER SWITCH		XP THESE LETTERS ADJ INDICATE EXPLOSION
			INSULATED FLEXIBLE DUCT	OH "A" WALL MOUNTED LIGHT FIXTURE AND TYPE	 \$ M MOMENTARY CONTACT 120/277 VOLT SWITCH \$ HOA \$ HAND-OFF-AUTO SELECTOR SWITCH 	►S FIRE SPEAKER - WALL MOUNTED	60" DIMENSIONS ADJACE INDICATE MOUNTING
Number Number <td>AWACID WASTE - BELOW FLOOR</td> <td>TEMPERATURE AND PRESSURE RELIEF VALVE</td> <td>LINEAR SLOT DIFFUSER, TYPE, SIZE, & CFM</td> <td>"A" SURFACE MOUNTED LINEAR LIGHT FIXTURE AND TY</td> <td>PE \$ TO MANUAL STARTER WITH THERMAL OVERLOADS</td> <td>FIRE SPEAKER AND STROBE - WALL MOUNTED FIRE SPEAKER AND STROBE - CEILING MOUNTED</td> <td>DEVICE (TIE) INDICATES HOMERU NUMBER TO BE WIR</td>	AWACID WASTE - BELOW FLOOR	TEMPERATURE AND PRESSURE RELIEF VALVE	LINEAR SLOT DIFFUSER, TYPE, SIZE, & CFM	"A" SURFACE MOUNTED LINEAR LIGHT FIXTURE AND TY	PE \$ TO MANUAL STARTER WITH THERMAL OVERLOADS	FIRE SPEAKER AND STROBE - WALL MOUNTED FIRE SPEAKER AND STROBE - CEILING MOUNTED	DEVICE (TIE) INDICATES HOMERU NUMBER TO BE WIR
	GREASE WASTE - ABOVE FLOOR	THERMOMETER	$\begin{array}{c} \overbrace{8x8} \\ \overbrace{8x8} \overbrace{8x8} \\ \overbrace{8x8} \\ \overbrace{8x8} \\ \overbrace{8x8} } $ \overbrace{8x8} \overbrace{8x8} _{1x} 8		 \$ OT \$ 120/277 VOLT SPRING WOUND TIMER SWITCH \$ ET \$ 120/277 VOLT ELECTRIC TIMER SWITCH 		
		TEMPERATURE SENSOR	SUPPLY GRILLE - ROUND CONNECTION, TYPE, SIZE, & CFM		\$ N 120/277 VOLT NARROW SWITCH	INSTALLATION HEIGHT OF ALL FIRE ALARM DEVICES SHALL BE AS REQUIRED BY THE LATEST EDITION OF NFPA 72. COORDINATE WITH EQUIPMENT MANUFACTURER BASED ON	AD ACCESS DOOR
		PRESSURE GAUGE	$\begin{array}{c} \hline \hline$	CEILING AND WALL MOUNTED EXIT LIGHT AND TYPE -ARROW INDICATES CHEVRON DIRECTION(S) -FILLED SEGMENT INDICATES FACE DIRECTION(S)	\$ LV LOW VOLTAGE SWITCH - REFER TO LIGHTING DEVICE SCHEDULE	ACTUAL PROVIDED EQUIPMENT.	AFF ABOVE FINISHED FL
	G		RETURN GRILLE - ROUND CONNECTION, TYPE, SIZE, & CFM		\$VA1 WALL MOUNT VACANCY SENSOR SWITCH AND TYPE (3) VA1 WALL MOUNT VACANCY SENSOR AND TYPE	FACP FIRE ALARM CONTROL PANEL	AFG ABOVE FINISHED GF AHU AIR HANDLING UNIT
		F FLOAT TRAP	RETURN GRILLE - DUCTLESS, TYPE, SIZE, & CFM	* "X" CEILING MOUNTED COMBINATION EXIT / EMERGENCY LIGHT AND TYPE	© VA1 CEILING MOUNT VACANCY SENSOR AND TYPE	FAA FIRE ALARM ANNUNCIATOR PANEL	C CONDUIT
		FLOAT AND THERMOSTATIC TRAP	$\begin{array}{c} $	WALL MOUNTED COMBINATION EXIT / EMERGENCY LIGHT AND TYPE	\$ OC1 WALL MOUNT OCCUPANCY SENSOR SWITCH AND TYPE	PE CO CARBON DIOXIDE SENSOR	CO CLEANOUT CU CONDENSING UNIT
	SP	BUCKET TRAP	EA 8x8 200 EXHAUST GRILLE - ROUND CONNECTION, TYPE, SIZE, & CFM	"A" C EXTERIOR POLE MOUNTED LIGHT FIXTURE AND TYP	E OC1 CEILING MOUNT OCCUPANCY SENSOR AND TYPE	SD DUCT SMOKE DETECTOR	CUH CABINET UNIT HEA
	FIRE SPRINKLER - WET FIRE SPRINKLER - DRY	SLIDING EXPANSION JOINT	LOUVER - INTAKE, TYPE, SIZE, & CFM	(x) DESIGNATION OF CONTROL ZONE FOR LUMINARF	FOR ALL OCCUPANCY AND VACANCY DEVICES - REFER TO LIGHTING DEVICE SCHEDULE	CEILING SMOKE DETECTOR	CW DOMESTIC COLD W
	FPFIRE SPRINKLER - PREACTION		LOUVER - EXHAUST, TYPE, SIZE, & CFM	DESIGNATION IS ASSOCIATED WITH BOTH CONTROL DEVICES AND LUMINAIRES.	BE AUTOMATIC ON - AUTOMATIC OFF. VACANCY SENSORS SHALL BE PROGRAMMED TO BE	DH ELECTRIC DOOR HOLDER	CWS CHILLED WATER S
		PA PIPE ANCHOR	DAMPERS:			FIREMAN'S TELEPHONE OUTLET	DF DRINKING FOUNTA
	V MEDICAL VACUUM PIPING					NURSE CALL:	DN DOWN EF EXHAUST FAN
			FD FIRE DAMPER		PPT POWERPACKTOR EIGHNING CONTROLS	NURSE CALL MASTER STATION	EWC ELECTRIC WATER
	MEDICAL NITROUS OXIDE PIPING MEDICAL NITROGEN PIPING	CAP	SMOKE DAMPER		SWITCHED RECEPTACLE, HALF OF OUTLETS SWITCHED, NEMA TYPE AS INDICATED	NCA NURSE CALL ANNUNCIATION PANEL	FCU FAN COIL UNIT FD FLOOR DRAIN
	A MEDICAL AIR PIPING	BREAK BREAK		RACEWAYS:	SIMPLEX, 20 A, 125 V, 2 P, 3 W, GROUNDING RECEPTACLE - NEMA 5-20R	W SH NURSE CALL ROOM STATUS CORRIDOR LIGHT -	FFCO FINISHED FLOOR C
	WAGD MEDICAL WAGD PIPING	ELBOW DOWN	RD RELIEF DAMPER		CEILING MOUNTED DUPLEX, 20 A, 125 V, 2 P, 3 W, GROUNDING RECEPTACLE - NEMA 5-20R	SL C NURSE CALL ROOM STATUS CORRIDOR LIGHT -	FGCO FINISHED GRADE C
	CWS CHILLED WATER SUPPLY	TEE UP ≎ TEE DOWN	BD BACKDRAFT DAMPER	CONDUIT OR CIRCUIT CONCEALED IN CEILING OR W	ALL DUPLEX, 20 A, 125 V, 2 P, 3 W, GROUNDING RECEPTACLE - NEMA 5-20R	W NH NURSE CALL CORRIDOR LIGHT - WALL MOUNT	FWCO FINISHED WALL CL
			TEMPERATURE CONTROLS:	EXPOSED CONDUIT OR CIRCUIT	DOUBLE DUPLEX, 20 A, 125 V, 2 P, 3 W,	NC NURSE CALL CORRIDOR LIGHT - CEILING MOUNT	G GROUND WIRE
		SHOCK ABSORBER	"RTU-X" THERMOSTAT AT 4'-0" A.F.F. U.N.O. SERVING "UNI"	T" EXPOSED METAL RACEWAY - WIREMOLD		N N <td>ORD HP HEAT PUMP</td>	ORD HP HEAT PUMP
	CONDENSER WATER SUPPLY CONDENSER WATER RETURN	METER BP BACKFLOW PREVENTER	HUMIDITY SENSOR AT 4'-0" A.F.F. U.N.O.	WIRES, ARROWS INDICATE NUMBER OF HOT CIRCUITS.	INTERRUPTER TYPE GROUNDING RECEPTACLE - NEMA 5-20R	ND NURSE CALL DUTY STATION	HW DOMESTIC HOT WA
		PLUMBING FIXTURES:	CH CARBON DIOXIDE SENSOR AT 4'-0" A.F.F. U.N.O.	GROUND	DOUBLE DUPLEX, 20 A, 125 V, 2 P, 3 W, GROUND FAUL INTERRUPTER TYPE GROUNDING RECEPTACLE -	T NORSE CALL EMERGENCY STATION - PULL CORD	ON HWS HEATING HOT WAT
		PLUMBING FIXTURE PLAN MARK TAG (REFERENCE PLUMBING FIXTURE SCHEDULE)		X #14 WIRE	DUPLEX, 20 A, 125 V, 2 P, 3 W, GROUNDING	N CB NURSE CALL CODE BLUE STATION	OA OUTSIDE AIR
		FLUSH TANK WATER CLOSET		#16 WIRE #18 WIRE	20AMP, 125V, 2P, 3W GROUNDING 4-PORT USB	COMMUNICATIONS:	RA RETURN AIR
		FLOOR MOUNT FLUSH VALVE WATER CLOSET WALL MOUNT FLUSH VALVE WATER CLOSET		SHEATHED CABLE	ADDITIONAL SPECIAL RECEPTACLE DESIGNATORS	**TELEPHONE OUTLET - NUMBER INDICATES QTY CABLE AND JACK OUTLETS. WHERE NO NUMBER	OF SA SUPPLY AIR
				UGE UNDERGROUND ELECTRIC OVERHEAD ELECTRIC	A I C REFER TO RECEPTACLE SCHEDULE OR PLAN NOTES FOR RECEPTACLE REQUIREMENTS.	INDICATED, ONE CABLE AND JACK OUTLET IS STANDARD.	UN UNITHEATER
	LP STEAM - LOW PRESSURE CONDENSATE RETURN			UGT UNDERGROUND TELEPHONE	FB1 RECESSED RECTANGULAR FLOOR BOX - MAY INCLUDE DATA AND POWER - REFER TO FLOOR BOX SCHEDULE FOR DETAILS	> 3/2 **DATA / TELEPHONE COMBINATION OUTLET - NUMBERS INDICATES QTY OF CABLE AND JACK	UV UNIT VENTILATOR
		RN SINGLE BOWL SINK		OVERHEAD TELEPHONE	RECESSED ROUND FLOOR BOX - MAY INCLUDE	NUMBER IS INDICATED, TWO CABLES AND JACK OUTLETS IS STANDARD.	V VENT VTR VENT THROUGH RO
Image: Section		DOUBLE BOWL SINK		POWER EQUIPMENT:	DATA AND POWER - REFER TO FLOOR BOX SCHEDULE FOR DETAILS	> 3 **DATA OUTLET - NUMBER INDICATES QTY OF CABLE AND JACK OUTLETS. WHERE NO NUMBER	W WASTE
Image: Constraint part (Source Same Same Same Same Same Same Same Sam	FW			Lighting and Appliance Panel DISTRIBUTION, FEEDER OR POWER PANEL	(FB1) SURFACE MOUNTED FLOOR BOX - MAY INCLUDE DATA AND POWER - REFER TO FLOOR BOX		PLAN NOTATIONS:
- Consistent and particular discussion - Consecond - Consistent and particular discussion	PC CONDENSATE PUMP DISCHARGE	BATHTUB			SCHEDULE FOR DETAILS		
 With With States With With With With With With With With		SHOWER		MAGNETIC MOTOR CONTROLLER	СН CLOCK OUTLET (RECEPTACLE)	** THESE OUTLETS REQUIRE 4/S - 3/4 BOX WITH SINGLE GANG	
Image: Strength Unit Work Private Image:		► SHOWER HEADS			APPROPRIATE RECEPTACLE(S) ON STUBBED UP CONDUIT, OUTLET BOX TO BE FS BOX	PLASTER RING AND 0.75" CONDUIT WITH 90 DEGREE SWEEP ABOVE CEILING WITH DE-BURRED END	E DETAIL REFERENCE INDICATES DETAIL N INDICATES SHFFT N
	REFRIGERANT DISCHARGE (HOT GAS) REFRIGERANT DISCHARGE (BYPASS)	DRINKING FOUNTAIN OR ELECTRIC WATER COOLER		TIME SWITCH	JUNCTION BOX 4" SQUARE UNLESS NOTED		1 PLAN NOTE REFERE
 Best Prior Best P		JANITOR'S BASIN		PC PHOTOCELL	J-O JUNCTION BOX ON STUBBED UP CONDUIT	MASTER CLOCK	
		EMERGENCY EYEWASH			PRE-FABRICATED MULTI-OUTLET ASSEMBLY	ACU INTERCOM ADMINISTRATIVE CONTROL UNIT	1 M1 SECTION REFERENCE INDICATES DETAIL N INDICATES SHEET N
reg r	FOR FUEL OIL RETURN	Image: Second system Emergency eyewash & shower Image: Second system Emergency shower		EQUIPMENT PAD WHERE FLOOR MOUNTED.	- OUTLETS 12" O.C. UNLESS OTHERWISE NOTED - REFER TO SCHEDULE FOR ADDITIONAL REQUIREMENTS		\checkmark
PIPE PLASING: ROUCH-IN ROX (LAUROY TO CONSPRIATE DRAW) IDE CONSINT OL COCK SPRIATE INFORMATION - SERVICE AS NOTES ABOVE IDE ROUCH-IN ROX (LAUROY TO CONSPRIATE DRAW) IDE COUND REPARE INFORMATION - SERVICE AS NOTES ABOVE IDE ROUCH-IN ROX (LAUROY TO CONSPRIATE DRAW) IDE COUND REPARE INFORMATION - SERVICE AS NOTES ABOVE IDE ROUCH-IN ROX (LAUROY TO CONSPRIATE DRAW) IDE COUND REPARE INFORMATION - SERVICE AS NOTES ABOVE IDE ROUCH-IN ROX (LAUROY TO CONSPRIATE DRAW) IDE COUND REPARE INFORMATION - SERVICE AS NOTES ABOVE IDE ROUCH-IN ROX (LAUROY TO CONSPRIATE DRAW) IDE COUND REPARE INFORMATION - SERVICE AS NOTES ABOVE IDE ROUCH-IN ROX (LAUROY TO CONSPRIATE DRAW) IDE IDE COUND REPARE INFORMATION - SERVICE AS NOTES ABOVE IDE ROUCH-IN ROX (LAUROY TO CONSPRIATE DRAW) IDE IDE COUND REPARE INFORMATION - SERVICE AS NOTES ABOVE IDE ROUCH-IN ROX (LAUROY TO CONSPRIATE DRAW) IDE IDE COUND REPARE INFORMATION - SERVICE AS NOTES ABOVE IDE IDE ROUCH-INT REPARE IDE IDE IDE IDE INFORMATION - SERVICE AS NOTES ABOV	FOG FUEL OIL GAUGE LINE				PB PUSHBUTTON STATION	WALL SPEAKER	
INPROVINENT - SERVICE AN NOTE NATURE INVIDENT - SERVICE NATURE AND FERVICE NATURE AND FERVICE SERVICE AN NOTE NATURE INVIDENT - SERVICE NATURE AND FERVICE NATURE AND FERVICE SERVICE AN NOTE NATURE INVIDENT - SERVICE NATURE AND FERVICE NATURE AND FE	PIPE PHASING:	ROUGH-IN BOX (LAUNDRY OR CONDENSATE DRA	NIN)				
INTROVEMENT SERVICE AS NOTED ABOVE IMPROVEMENT Service AS NOTE		ROUGH-IN BOX (ICE-MAKER) HOSE BIBB					
IMPROVEMENT - SERVICE AS NOTED ABOVE Improvement - SERVICE AS NOTED ABOVE <td></td> <td>-E WALL HYDRANT</td> <td></td> <td></td> <td></td> <td>Ivi COLUMN SPEAKER ▼ HORN TYPE SPEAKER</td> <td></td>		-E WALL HYDRANT				Ivi COLUMN SPEAKER ▼ HORN TYPE SPEAKER	
INTERVENTION FORMULE AS NOTED ABOVE INTERVENT SERVICE AS NOTE DABOVE INTERVENT SERVICE AS NOTED ABOVE		PIPE SPECIALTIES:				M MICROPHONE OUTLET - WALL	
IMPROVEMENT SERVICE AS NOTED ABOVE ICOAL AMPLIFIER Improvement - service as noted badove Improvement - service - service as noted badove Improvement - service - service as noted badove Improvement - service -	IMPROVEMENT - SERVICE AS NOTED ABOVE IMPROVEMENT - SERVICE AS NOTED ABOVE	X DRAINAGE PIPE SPECIALTY TAG X DENOTES PLAN MARK				M MICROPHONE OUTLET - FLOOR	
Exts Invis - Stervice as NotED ABOVE • Fluss Fluore GLEANOUT • Fluiss Fluore GLEANOUT Exts Invis - Stervice as NotED ABOVE • • Fluiss Fluore GLEANOUT • • Exts Invis - Stervice as NotED ABOVE • • Fluiss Fluore GLEANOUT • <td></td> <td>(REFERENCE DRAINAGE PIPE SPECIALTY SCHEDULE)</td> <td></td> <td></td> <td></td> <td></td> <td></td>		(REFERENCE DRAINAGE PIPE SPECIALTY SCHEDULE)					
	EXISTING - SERVICE AS NOTED ABOVE EXISTING - SERVICE AS NOTED ABOVF	FLUSH FLOOR CLEANOUT FLUSH GRADE CLEANOUT				C CALL-IN STATION	
Image: Service As noted Above	EXISTING - SERVICE AS NOTED ABOVE	어I FINISH WALL CLEANOUT				CABLE TRAY	
Existing - Service As noted Above Image: Floor Sink Image: Door Alarm contact Floor Trough / Trench drain Image: Door Alarm Annunciator Image: Floor Sink Image: Floor Sink Image: Floor Sink <td>EXISTING - SERVICE AS NOTED ABOVE EXISTING - SERVICE AS NOTED ABOVE</td> <td>O ROOF DRAIN O FLOOR DRAIN</td> <td></td> <td></td> <td><u>e</u></td> <td>SECURITY:</td> <td></td>	EXISTING - SERVICE AS NOTED ABOVE EXISTING - SERVICE AS NOTED ABOVE	O ROOF DRAIN O FLOOR DRAIN			<u>e</u>	SECURITY:	
Image: Service as noted above Image: Floor trough / trench drain Image: Door alarm annunciator Image: Service as noted above Image: Floor trough / trench drain Image: Service as noted above Image: Floor trough / trench drain Image: Service as noted above Image: Floor trough / trench drain Image: Service as noted above Image: Floor trough / trench drain Image: Service as noted above Image: Floor trough / trench drain Image: Floor trough / trench drain <td< td=""><td> EXISTING - SERVICE AS NOTED ABOVE</td><td>FLOOR SINK</td><td></td><td></td><td>2</td><td>DC DOOR ALARM CONTACT</td><td></td></td<>	EXISTING - SERVICE AS NOTED ABOVE	FLOOR SINK			2	DC DOOR ALARM CONTACT	
IMI MONITOR JUNCTION BOX IMI CLOSED CIRCUIT TELEVISION MONITOR IMI CLOSED CIRCUIT TELEVISION MONITOR		FLOOR TROUGH / TRENCH DRAIN					
	FUTURE - SERVICE AS NOTED ABOVE					Imp MONITOR JUNCTION BOX Imp CLOSED CIRCUIT TELEVISION MONITOR	
CLOSED CIRCUIT TELEVISION CAMERA							

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	7	8	9	10	11	12	13	14	16	17 SHEET CREATENATION IN THE SHALL BE INSULATED, SHALE DWATTER THE ALL EXTERIOR DUCTWORK SHALL BE INSULATED, SHALE DWATTER THE CHARACTER THAN SHALL MAINTAIN MINIMUM 10-0F FROM ROOF EDGE AND ANY EXISTING OUTSIDE ANY ANALL BE ENLARGED TO ALLOW LARGER DUCT NOOF. COPENING, OPENING SHALL BE ENLARGED TO ALLOW LARGER DUCT NUNAGE FRAME. CHARACTER AND ANY
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				SHEET K P 1 REMOVE ASSOCIATED F 2 REMOVE DUCTWORK AM GENE REFER TO SHEET M301 FOR	CEYNOTE LEGEND LAN HEX NOTES: AN POWERED BOX AND ASSOCIATED HANGE ID ASSOCIATED HANGERS, DIFFUSERS, ETC ERAL NOTES: GENERAL NOTES:

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HEET KEYNOTE LEGEND						
PLAN HEX NOTES:						
DE LABCONCO 3'-0" LAB EXHAUST HOOD, COUNTER MOUNTED. DINATE MOUNTING ON COUNTERTOP WITH OWNER.	1 PF C(
ICT DOWN TO CONNECT TO LAB EXHAUST HOOD. COORDINATE ECTION WITH HOOD REQUIREMENTS.	2 8" C(
NG DUCT OPENING THROUGH ROOF SHALL BE ENLARGED TO A " DUCT UP THROUGH ROOF.	3 E) 22					
NG DUCT OPENING THROUGH ROOF 18"X18" DUCT UP THROUG	4 E)					
GENERAL NOTES:						





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			SHEET KEYNOTE LEGENI
		ABBREVIATED SCHEDULE HEADINGS	GENERAL NOTES:
	AN SCHEDULE	A AMPS CAP CAPACITY CFM CUBIC FEET PER MINUTE	ALL MECHANICAL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2018 INTERNATIONAL MECHANICAL CODE AS ADOPTED BY THE CITY OF LEE'S SUMMIT, MO.
NOTES PLAN MARI EF1	NK MANUFACTURER MODEL AIR FLOW (CFM) EST. ESP (IN WG) VOLTAGE PHASE MOTOR (HP) UNIT WEIGHT (IBS) NOTES COOK 195TCNHBLE14 3,400 3.5 460 3 7.5 1907 DS,GBD,MB	E.A.T. ENTERING AIR TEMPERATURE E.S.P. EXTERNAL STATIC PRESSURE INCLUDES ALL WORK EXTERNAL TO UNIT	B. CONTRACTOR SHALL SECURE AND PAY FOR NECESSARY MEP PERMITS AND CERTIFICATES OF INSPECTION REQUIRED BY GOVERNMENTAL ORDINANCES, LAWS, RULES, OR REGULATIONS.
EF2 EF3	COOK 195TCNHBLE15 3,375 3.5 460 3 7.5 1907 DS,GBD,MB COOK 195TCNHBLE11 2,225 3.5 460 3 5 1844 DS,GBD,MB	E.W.1. ENTERING WATER TEMPERATURE EER ENERGY EFFICIENCY RATIO EST. ESTIMATED FLA FULL LOAD AMPS	C. FINAL ACCEPTANCE OF WORK SHALL BE SUBJECT TO THE CONDITION THAT ALL SYSTEMS, EQUIPMENT, APPARATUS, AND APPLIANCES OPERATE SATISFACTORILY AS DESIGNED AND INTENDED: WORK SHALL INCLUDE
ND LOW EXHAUST AT 100 CFM EACH INLET.		FPM FEET PER MINUTE GPH GALLONS PER HOUR GPM GALLONS PER MINUTE GR/LB GRAINS OF MOISTURE PER POUND OF DRY AIR	REQUIRED AND INTENDED, WORK STIAL INCODE REQUIRED REPLACEMENT, ADJUSTMENT OF SYSTEMS AND CONTROL EQUIPMENT AND ALL REQUIRED PROGRAMMING INSTALLED. PROVIDE FOR ALL WORK INDICATED ON DRAWINGS OR AS REASONABLY IMPLIED.
	AN MANUFACTURER MODEL APPLICATION FINISH FRAME TYPE VOLUME DAMPER MAXIMUM AP (IN WG) NOTES	HP HORSEPOWER IN INCH ISP INLET STATIC PRESSURE	D. TEST ALL LINES, SYSTEMS, EQUIPMENT BEFORE THEY ARE INSULATED, PAINTED, OR CONCEALED BY CONSTRUCTION OR BACKFILLING. PROVIDE FUEL, WATER,
	G-1 TITUS PAR-24 x 24 EXHAUST PER ARCH.) GRID № 30 0.10 24x24 SQUARE PERFORATED FACE WITH ROUND DUCT CONNECTION G-2 TITUS 351-RL EXHAUST PER ARCH.) SURFACE № 30 0.10 WALL GRILLE - DOUBLE DEFLECTION - ALUMINUM G-3 TITUS PAR-12 x 12 EXHAUST PER ARCH.) SURFACE № 30 0.10 12x12 SQUARE PERFORATED FACE WITH ROUND DUCT CONNECTION G-1 TITUS PAS-24 x 24 SUPPLY PER ARCH.) GRID № 30 0.10 24x24 SQUARE PERFORATED FACE WITH ROUND DUCT CONNECTION	L.A.1. LEAVING AIR TEMPERATURE L.W.T. LEAVING WATER TEMPERATURE LBS POUNDS LOAD NOMINAL CONNECTED GAS LOAD TO UNIT, USED TO SIZE	ELECTRICITY, MATERIALS, LABOR, AND EQUIPMENT REQUIRED FOR TESTS. REPAIR OR REPLACE DEFECTS, LEAKS, AND MATERIALS FAILURES REVEALED BY TESTS AND THEN RETESTED UNTIL SATISFACTORY. MAKE
		GAS PIPING MCA MINIMUM CIRCUIT AMPACITY MIN. MINIMUM MOCP MAXIMUM OVERCURRENT PROTECTION	E. PROVIDE NECESSARY MATERIALS. FOR INSTALLATION OF FIXTURES, EQUIPMENT, ETC AS REQUIRED FOR COMPLETE AND EUNCTIONAL OPERATION
		NC MAXIMUM NOISE CRITERIA RATING NPSH NET PRESSURE SUCTION HEAD OA OUTSIDE AIR OUTSIDE TO SATIEV SCHEDULED	AS NOTED ON DRAWINGS OR IN NOTES. F. ACCESS PANELS SHALL BE PROVIDED WHEREVER NECESSARY TO PROVIDE ACCESS TO VALVES, JUNCTION
		PPH POUNDS PER HOUR PSI POUNDS PER SQUARE INCH	BOXES, ETC., LOCATED IN CONCEALED SPACES. PROVIDE ACCESS DOOR FOR ALL FIRE DAMPERS AS REQUIRED FOR SERVICE.
TOR SHALL PROVIDE ALL CONTROLLERS AND DEVICES NECESSARY TO UENCES FOR LABORATORY SUPPLY AND EXHAUST CONTROL.	AIR VALVE / LAB EXHAUST FAN - POINTS LIST TYPE POINT DESCRIPTION UNITS TREND ALARM TOTALIZE AL EH-T ELECTRIC RE-HEATING LAT DEG E X X	REVOLUTIONS PER MINUTE SEER SEASONAL ENERGY EFFICIENCY RATIO SHC SENSIBLE HEAT CAPACITY TEMP. TEMPERATURE	G. ALL EQUIPMENT, FIX TORES, MATERIALS, ETC SHALL BE INSTALLED IN NEAT, PROFESSIONAL MANNER IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
O ACCEPT INPUT FROM BUILDING DDC CONTROL SYSTEM TO RESET AIRFLOW AMOUNT SHALL BE A USER INPUT AND SHALL BE ACH - 8 ACH.	AI DA-T DISCHARGE AIR TEMPERATURE DEG F X X AI SAV-T SUPPLY AIR VALVE - EAT DEG F X X AI OA-T OUTSIDE AIR TEMPERATURE DEG F X X AI SAV-F SUPPLY AIR VALVE AIRFLOW CFM X X	THC TOTAL HEAT CAPACITY WB WET BULB WPD WATER PRESSURE DROP	H. THE CONTRACTOR SHALL CONTACT THE OWNER AND COORDINATE ALL OUTAGES 5 DAYS PRIOR TO ANY SHUT- OFF OF SERVICES.
N OFFSET CFM -200 CFM (ADJUSTABLE) TO ENSURE LAB STAYS NCE BETWEEN SUPPLY AND EXHAUST. AIR VALVES SHALL OPEN TO ST FAN SHALL INCREASE SPEED TO MAINTAIN DUCT NEGATIVE STATIC . SUPPLY AIR VALVE SHALL OPEN TO MAINTAIN -200 CFM NEGATIVE	AI EAV-F EXHAUST VALVE AIRFLOW CFM X X AI EF-F EXHAUST FAN AIRFLOW CFM X X AI DP-HL DUCT PRESS. EXHAUST In WC X	EXHAUST FAN SCHEDULE AF ALUMINUM FINISH DD DIRECT DRIVE MOTOR	I. PROVIDE ALL FIRE RATED MATERIAL FOR PATCH AND REPAIR FOR ALL FIRE RATED ASSEMBLIES. ALL OPENINGS SHALL BE SEALED AND CLOSED IN APPROVED MANNER. PROVIDE SLEEVE WHERE NEEDED DUE TO
POINT NOT MET, SUPPLY AIR VALVE SHALL OPEN TO MAINTAIN -75 CFM RE. AT COIL SHALL MODULATE TO MAINTAIN SPACE SETPOINT.	DI EF-S EXHAUST FAN STATUS OFF ON X X DO EF-C EXHAUST FAN COMMAND OFF ON X AQ FE-Q EXHAUST FAN VED OUTPUT % X	DS DISCONNECT SWITCH GBD GRAVITY BACKDRAFT DAMPER MB MIXING BOX FOR SIDE DUCT CONNECTION. RC ROOF CURB	SCOPE OF WORK. J. EXISTING CONDITIONS ON THIS SET OF BID DOCUMENTS WERE TAKEN FROM EXISTING DRAWINGS, LIMITED SITE
/ERRIDE BUTTON LOCATED IN CLASSROOM IS TURNED ON. EXHAUST ETPOINT (8 ACH) AND EXHAUST FAN SHALL INCREASE SPEED TO PRESSURE OF -0.65" (ADJUSTABLE). SUPPLY AIR VALVE SHALL OPEN TO	AOEH-OELECTRIC HEATING OUTPUT%XAOEAV-OEXHAUST AIR VALVE OUTPUT%XAORAV-ORETURN AIR VALVE OUTPUT%XAODAT-SPDISCHARGE AIR TEMP SETPOINTDEG FX	SC SPEED CONTROLLER FAN COIL UNIT SCHEDULE	EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CHANGE ORDERS WILL NOT BE PAID DUE TO UNANTICIPATED CONDITIONS TO MEET INTENT OF WORK.
POINT NOT MET, SUPPLY AIR VALVE SHALL OPEN TO MAINTAIN -75 CFM RE.	AO EAP-SP EXHAUST AIR PRESS. SETPOINT In WC X	T PROGRAMMABLE AUTO-CHANGEOVER THERMOSTAT FAN TERMINAL UNIT SCHEDULE	K. CONTRACTOR SHALL SCHEDULE AND EXECUTE ALL WORK WITH REGARD TO THE OWNER'S USE OF THE BUILDING.
AIR VALVE SHALL CLOSE OTHER EXHAUST AIR VALVES SHALL CLOSE AN SHALL DECREASE SPEED TO MAINTAIN DUCT NEGATIVE STATIC		A ATTENUATOR AT ASPIRATING THERMOSTAT PRESSURE TAP AV AIR VALVE / DAMPER CON CONSTANT VOLUME	 L. PLANS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. M. ALL METAL DUCTWORK SPECIFIED TO RECEIVE INTERIOR
SUPPLY AIR VALVE CLOSE TO MAINTAIN NEUTRAL SPACE PRESSURE		CT CONTROL TRANSFORMER DDC DIRECT DIGITAL CONTROLS F FILTERS EAR EAN ACCESS DANIEL	THERMAL AND ACOUSTICAL LINER IS NOT SIZED ON PLANS TO INCLUDE THE PROPER THICKNESS OF INSULATION. ADD 1" OR 2" IN HEIGHT AND WIDTH OF DUCTWORK TO ACCOMMODATE THICKNESS OF INSULATION
		FS HEATER AIR FLOW SWITCH HDS HEATER DISCONNECTING MEANS ML MINIMUM VOLUME LIMITER	N. BRANCH DUCTS SHALL BE THE SAME SIZE AS DIFFUSER NECK UNLESS NOTED OTHERWISE.
		MR MORNING WARMUP RELAY MV MAXIMUM VOLUME LIMITER NR NIGHT SHUTOFF RELAY PNEU PNEUMATIC	 O. PROVIDE TURNING VANES IN ALL RECTANGULAR MITERED ELBOWS. P. THERMOSTATS AND CONTROL WIRING SHALL BE
		SPI SIDE PLENUM INLET T THERMOSTAT TI TOP PLENUM INLET VA VALVE/DAMPER ACCESS PANEL	SUPPLIED BY THE HVAC CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL THE NECESSARY CONDUIT, BOXES, ETC. FOR THE INSTALLATION OF THERMOSTATS. THE HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR THE
		VAV VARIABLE AIR VOLUME VR PNEUMATIC VOLUME REGULATOR	 INSTALLATION AND CONNECTION OF THERMOSTATS. Q. NEW PIPING AND DUCTWORK SHALL NOT BE ROUTED OVER EXISTING AND NEW ELECTRICAL PANELS.
	TAPERED CONE NOZZLE.	CURB ROOF CURB CURBS SLOPED ROOF CURB GBD GRAVITY BACKDRAFT DAMPER	R. ALL ROOF WORK SHALL BE IN ACCORDANCE WITH ARCHITECTURAL REQUIREMENTS SO THAT ROOF WARRANTY IS NOT VOIDED.
GALV. IRON STRAP OR ALUM. SEE TABLE FOR SIZE		MBD MOTORIZED BACKDRAFT DAMPER	S. ALL EQUIPMENT SHALL BE INSTALLED TO ALLOW FULL MAINTENANCE ACCESS PER MANUFACTURER'S RECOMMENDATIONS.
SECURE TO STRUCTURE ABOVE AS RECOMMENDED BY SMACNA			T. PROVIDE BALANCE DAMPER ON ALL SUPPLY, EXHAUST, AND OUTSIDE AIR BRANCH DUCTS TO OUTLETS, WHETHER INDICATED IN PLANS OR NOT.
			 U. INSULATE AND SEAL ALL CAPPED DUCTS WHERE NOTED. V. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR TRANSITIONS TO ALL EQUIPMENT OPENING SIZES.
			W. LAB EXHAUST DUCT SHALL BE STAINLESS STEEL LAB EXHAUST OR EQUAL FOR CORROSION RESISTANT.
	MOTOR COVER - ACCESS DOOR		
SHEET METAL SCREWS NUT & WASHER AT END OF ROD			
<u>TYPE "A"</u> <u>TYPE "B"</u>			
DUCT HANGER SCHEDULE TYPE HANGER STRAP ROD ANGLE			
OF HANGERSPACING (FT)SIZESIZE (INCH)FOR BRACINGA8'-0"1"x16GAN.A.N.A.			
A 8'-0" 1"x16GA N.A. N.A. A/B 8'-0" 1"x16GA 1/4" 1-1/2"x1-1/2"x1/ B 8'-0" N.A. 1/4" 1-1/2"x1-1/2"x1/	8" 8" 8" 8" 8" 8" 8" 8" 8" 8" 8" 8		
B 8'-0" N.A. 1/4" 1-1/2 x1-1/2"x1/ B 8'-0" N.A. 1/4" 1-1/2"x1-1/2"x3/ B 8'-0" N.A. 1/4" 1-1/2"x1-1/2"x3/ B 8'-0" N.A. 3/8" 2"x2"x1/4"	0 0 16" 16" 16" PROVIDED BY OTHERS. <td></td> <td></td>		
AL DUCTS ON ONE HANGER, TYPE "B" MAY BE USED. SIZE OF HANGER WILL THE SUM OF DUCT WIDTHS EQUAL TO MAX WIDTH OF DUCT SCHEDULE.			
NOT TO SCALE	M301 SCALE: NOT TO SCALE		
	SUPPORT FROM		
NOTE:	FLEXIBLE DUCT 5'-0" MAXIMUM LENGTH		
L = 1/4W (4" MIN.)	SPIN-IN TAP FLEXIBLE DUCT VOLUM		
	CONTROL VOLUME DAMPER DELL MOLITIL EITTINC		
USE DAMPER WHEN INDICATED ON PLAN	EXTERNAL FLEXIBLE DUCTWORK ELBOW-		
W	CEILING		
	BELL MOUTH FITTING SUPPLY GRILLE MAIN OR BRANCH	DUCT	
	SUPPLY DIFFUSER		
	EILING DIFFUSER DETAIL		
7 8	9 10 11 12 13	14 15 16	MECHA
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NOTES
HAND LOW EXHAUST AT 100 CFM EACH INLET.

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									SHEET P	(EYNOTE LEGENI
								LE LEGEND	GEN	
FAN	SCHEDULE						A AMPS CAP CAPACITY CFM CUBIC FEET PER MIN	IUTE	A. ALL MECHANICAL W THE REQUIREMENT MECHANICAL CODE SUMMIT, MO.	S OF THE 2018 INTERNATIONAL AS ADOPTED BY THE CITY OF LEE'S
PLAN MARK MAR EF1	NUFACTURER MOD COOK 195TCNH	DEL AIR FLOW (CFM) HBLE14 3,400	EST. ESP (IN WG) VOLTAGE F 3.5 460	PHASE MOTOR (HP) UNIT WEIGHT (IBS) 3 7.5 1907	NOTES DS,GBD,MB		E.A.T. ENTERING AIR TEMP E.S.P. EXTERNAL STATIC PI EXTERNAL TO UNIT	ERATURE RESSURE INCLUDES ALL WORK	B. CONTRACTOR SHAL MEP PERMITS AND REQUIRED BY GOVE RULES, OR REGULA	L SECURE AND PAY FOR NECESSARY CERTIFICATES OF INSPECTION ERNMENTAL ORDINANCES, LAWS, ATIONS.
EF2 EF3	COOK 195TCNH COOK 195TCNH	HBLE15 3,375 HBLE11 2,225	3.5 460 3.5 460	3 7.5 1907 3 5 1844	DS,GBD,MB DS,GBD,MB		E.W.T. ENTERING WATER TE EER ENERGY EFFICIENCY EST. ESTIMATED FLA FULL LOAD AMPS	EMPERATURE / RATIO	C. FINAL ACCEPTANCE CONDITION THAT AI AND APPLIANCES C	E OF WORK SHALL BE SUBJECT TO THE LL SYSTEMS, EQUIPMENT, APPARATUS, PREATE SATISFACTORILY AS
							FPM FEET PER MINUTE GPH GALLONS PER HOUR GPM GALLONS PER MINUT		DESIGNED AND IN I REQUIRED REPLAC AND CONTROL EQU PROGRAMMING INS	ENDED; WORK SHALL INCLUDE EMENT, ADJUSTMENT OF SYSTEMS IPMENT AND ALL REQUIRED TALLED. PROVIDE FOR ALL WORK
PLAN MARK MAN	NUFACTURER MODEL AF	IER AND D	IFFUSER SC ME VOLUME DAMPER MAXIMUM NC				HP HORSEPOWER IN INCH ISP INLET STATIC PRESS		D. TEST ALL LINES, SY ARE INSULATED, PA CONSTRUCTION OR	STEMS, EQUIPMENT BEFORE THEY AINTED, OR CONCEALED BY BACKFILLING, PROVIDE FUEL, WATER.
EG-1 EG-2 EG-3	TITUSPAR-24 x 24TITUS351-RLTITUSPAR-12 x 12TITUSPAS-24 x 24	EXHAUST PER ARCH.) GR EXHAUST PER ARCH.) SURP EXHAUST PER ARCH.) SURP SURPLY DEP ARCH.) CE	No 30 FACE No 30 FACE No 30 FACE No 30	0.10 24x24 SQUARE PERFORATED 0.10 WALL GRILLE - DOUBLE DEFL 0.10 12x12 SQUARE PERFORATED 0.10 24x24 SQUARE PERFORATED	FACE WITH ROUND DUCT CONNECTION ECTION - ALUMINUM FACE WITH ROUND DUCT CONNECTION FACE WITH ROUND DUCT CONNECTION		L.A.T. LEAVING AIR TEMPER L.W.T. LEAVING WATER TEM LBS POUNDS LOAD NOMINAL CONNECTE	RATURE IPERATURE ED GAS LOAD TO UNIT, USED TO SIZE	ELECTRICITY, MATE REQUIRED FOR TES LEAKS, AND MATER AND THEN RETEST	RIALS, LABOR, AND EQUIPMENT STS. REPAIR OR REPLACE DEFECTS, IALS FAILURES REVEALED BY TESTS ED UNTIL SATISFACTORY. MAKE
30-1	11105 PA3-24 X 24	SUPPLY PER ARCH.) GR		U.IU Z4X24 SQUARE PERFURATED	FACE WITH ROUND DUCT CONNECTIN		GAS PIPING MCA MINIMUM CIRCUIT AN MIN. MINIMUM		E. PROVIDE NECESSA	/ MATERIALS. RY MATERIALS AND ACCESSORIES OF FIXTURES, EQUIPMENT, ETC AS
							NC MAXIMUM NOISE CRI NPSH NET PRESSURE SUC OA OUTSIDE AIR	TERIA RATING TION HEAD	F. ACCESS PANELS SH	APLE TE AND FUNCTIONAL OPERATION VINGS OR IN NOTES.
							OUTPUT MINIMUM REQUIRED HEATING REQUIREM PPH POUNDS PER HOUR PSI POUNDS PER SQUAR	OUTPUT TO SATIFY SCHEDULED ENTS RE INCH	BOXES, ETC., LOCA ACCESS DOOR FOR FOR SERVICE.	TED IN CONCEALED SPACES. PROVIDE
Y TO	AIR VALVE / LA	AB EXHAUST FAN	- POINTS LIST	I TOTALIZE			RPM REVOLUTIONS PER M SEER SEASONAL ENERGY SHC SENSIBLE HEAT CAP TEMP TEMPERATURE	MINUTE EFFICIENCY RATIO ACITY	G. ALL EQUIPMENT, FI INSTALLED IN NEAT ACCORDANCE WITH RECOMMENDATION	(TURES, MATERIALS, ETC SHALL BE , PROFESSIONAL MANNER IN 1 MANUFACTURER IS.
т	AI EH-I AI DA-T AI SAV-T AI OA-T AI SAV-F	ELECTRIC RE-HEATING LAT DISCHARGE AIR TEMPERATURE SUPPLY AIR VALVE - EAT OUTSIDE AIR TEMPERATURE SUPPLY AIR VALVE AIRELOW	DEGF X X DEGF X X DEGF X X DEGF X X CEF X X				THC TOTAL HEAT CAPACI WB WET BULB WPD WATER PRESSURE D	TY DROP	H. THE CONTRACTOR COORDINATE ALL C OFF OF SERVICES.	SHALL CONTACT THE OWNER AND UTAGES 5 DAYS PRIOR TO ANY SHUT-
) TIC	AI EAV-F AI EF-F AI DP-HL	EXHAUST VALVE AIRFLOW EXHAUST FAN AIRFLOW DUCT PRESS. EXHAUST	CFM X X CFM X X In WC X				EXHAUST FAN SCHEDULE AF ALUMINUM FINISH DD DIRECT DRIVE MOTO	R	I. PROVIDE ALL FIRE F REPAIR FOR ALL FIR OPENINGS SHALL B MANNER, PROVIDE	RATED MATERIAL FOR PATCH AND RE RATED ASSEMBLIES. ALL E SEALED AND CLOSED IN APPROVED SLEEVE WHERE NEEDED DUE TO
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ST N TO	AO EP-O AO EH-O AO EAV-O AO RAV-O AO DAT-SP	ELECTRIC HEATING OUTPUT EXHAUST AIR VALVE OUTPUT RETURN AIR VALVE OUTPUT DISCHARGE AIR TEMP SETPOINT	70 A % X % X % X % X % X T DEG F X				SC SPEED CONTROLLER	R	VISITS, AND VISUAL EXISTING CONDITIC CHANGE ORDERS V UNANTICIPATED CC	OBSERVATIONS. FIELD VERIFY ALL INS PRIOR TO SUBMITTING FINAL BIDS. VILL NOT BE PAID DUE TO INDITIONS TO MEET INTENT OF WORK.
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ZE									T. PROVIDE BALANCE AND OUTSIDE AIR B WHETHER INDICATE	DAMPER ON ALL SUPPLY, EXHAUST, RANCH DUCTS TO OUTLETS, ED IN PLANS OR NOT.
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PLAN MARK MANUFACTURER MODEL AIR FLOW (CFM) EST. E EF1 COOK 195TCNHBLE14 3,400	SP (IN WG) VOLTAGE PHASE M 3.5 460 3	UNIT WEIGHT (IBS)NO7.51907DS7.51907DS	TES ,GBD,MB		E.A.T. ENTERING AIR TEMP E.S.P. EXTERNAL STATIC P EXTERNAL TO UNIT	PERATURE RESSURE INCLUDES ALL WORK	B. CONTRACTOR SHALL S MEP PERMITS AND CEI REQUIRED BY GOVERN RULES, OR REGULATIO	ECURE AND PAY FOR NECESSARY <pre> </pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> </pre> </pre> <pre> <pre> <pre> <pre> </pre> </pre> </pre> <pre> <pre> <pre> <pre> <pre> </pre> </pre> </pre> </pre> </pre> <pre> <pre> <pre> <pre> <pre> <pre> </pre> </pre> </pre> </pre> </pre> </pre> <pre> </pre> <pre> <pr< td=""></pr<></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>
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PLAN MARK MANUFACTURER MODEL APPLICATION FINISH TYPE	VOLUME MAXIMUM NC (IN WG)	NOTES		_	HP HORSEPOWER IN INCH ISP INLET STATIC PRESS	SURE	D. TEST ALL LINES, SYSTI ARE INSULATED, PAINT CONSTRUCTION OR BA	EMS, EQUIPMENT BEFORE THEY ED, OR CONCEALED BY ACKFILLING. PROVIDE FUEL, WATER,
EG-1 TITUS PAR-24 x 24 EXHAUST PER ARCH.) GRID EG-2 TITUS 351-RL EXHAUST PER ARCH.) SURFACE EG-3 TITUS PAR-12 x 12 EXHAUST PER ARCH.) SURFACE	No 30 0.10 No 30 0.10 No 30 0.10 No 30 0.10	24x24 SQUARE PERFORATED FACE WALL GRILLE - DOUBLE DEFLECTIO 12x12 SQUARE PERFORATED FACE	WITH ROUND DUCT CONNECTION ON - ALUMINUM WITH ROUND DUCT CONNECTION		L.A.T. LEAVING AIR TEMPE L.W.T. LEAVING WATER TEI LBS POUNDS LOAD NOMINAL CONNECT	RATURE MPERATURE ED GAS LOAD TO UNIT. USED TO SIZE	ELECTRICITY, MATERIA REQUIRED FOR TESTS LEAKS, AND MATERIAL AND THEN RETESTED	LS, LABOR, AND EQUIPMENT REPAIR OR REPLACE DEFECTS, S FAILURES REVEALED BY TESTS UNTIL SATISFACTORY. MAKE
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90 AO EAP-SP EXHAUST AIR PRESS. SETPOINT I	n WC X				FB FILTER BOX T PROGRAMMABLE AU FAN TERMINAL UNIT SCHEDULE	JTO-CHANGEOVER THERMOSTAT	K. CONTRACTOR SHALL S WORK WITH REGARD 1 BUILDING.	CHEDULE AND EXECUTE ALL O THE OWNER'S USE OF THE
SE					A ATTENUATOR AT ASPIRATING THERM AV AIR VALVE / DAMPER	OSTAT PRESSURE TAP	L. PLANS ARE DIAGRAMM REFER TO ARCHITECT	ATIC AND SHALL NOT BE SCALED. JRAL DRAWINGS FOR DIMENSIONS.
RE					CT CONTROL TRANSFO DDC DIRECT DIGITAL CON F FILTERS	RMER NTROLS	THERMAL AND ACOUS PLANS TO INCLUDE TH INSULATION. ADD 1" OF DUCTWORK TO ACCOM	ICAL LINER IS NOT SIZED ON E PROPER THICKNESS OF ? 2" IN HEIGHT AND WIDTH OF MODATE THICKNESS OF
					FAP FAN ACCESS PANEL FS HEATER AIR FLOW S HDS HEATER DISCONNEC ML MINIMUM VOLUME L	WITCH CTING MEANS MITER	N. BRANCH DUCTS SHALL NECK UNLESS NOTED	. BE THE SAME SIZE AS DIFFUSER OTHERWISE.
					MR MORNING WARMUP MV MAXIMUM VOLUME L NR NIGHT SHUTOFF REI	RELAY IMITER _AY	O. PROVIDE TURNING VAI ELBOWS. P. THERMOSTATS AND CO	JES IN ALL RECTANGULAR MITERED
					SPI SIDE PLENUM INLET T THERMOSTAT TI TOP PLENUM INLET		SUPPLIED BY THE HVA CONTRACTOR SHALL F NECESSARY CONDUIT, INSTALLATION OF THE	CONTRACTOR. THE ELECTRICAL URNISH AND INSTALL THE BOXES, ETC. FOR THE RMOSTATS. THE HVAC
					VA VALVE/DAMPER ACC VAV VARIABLE AIR VOLU VR PNEUMATIC VOLUME	ESS PANEL ME E REGULATOR	Q. NEW PIPING AND DUCT	E RESPONSIBLE FOR THE NNECTION OF THERMOSTATS.
TAPERED NOZZLE	CONE				ROOF VENT SCHEDULE CURB ROOF CURB CURBS SLOPED ROOF CURB		R. ALL ROOF WORK SHAL ARCHITECTURAL REQU	EW ELECTRICAL PANELS. L BE IN ACCORDANCE WITH JIREMENTS SO THAT ROOF
					MBD MOTORIZED BACKDF	RAFT DAMPER	S. ALL EQUIPMENT SHALL MAINTENANCE ACCES RECOMMENDATIONS.	. BE INSTALLED TO ALLOW FULL S PER MANUFACTURER'S
SEE Æ							T. PROVIDE BALANCE DA AND OUTSIDE AIR BRA WHETHER INDICATED	VPER ON ALL SUPPLY, EXHAUST, NCH DUCTS TO OUTLETS, IN PLANS OR NOT.
							U. INSULATE AND SEAL A V. MECHANICAL CONTRA TRANSITIONS TO ALL	L CAPPED DUCTS WHERE NOTED.
							W. LAB EXHAUST DUCT SH EXHAUST OR EQUAL F	IALL BE STAINLESS STEEL LAB OR CORROSION RESISTANT.
MOTOR COVER		-ACCESS DOOR						
	•							
A. 1/2"x1/8" 1/2"x1/8" 1/2"x1/8"	• •	MANUFACTURER ROOF MIXING BOX						
1/2"x1/8" 1/2"x3/16" 1/2"x3/16" x1/4"		REFER TO STRUCTURAL FO EXHAUST FAN ON STRUCTU PROVIDED BY OTHERS.	R MOUNTING OF RAL SUPPORT.					
R WILL BE								
(2) EXHAUS M301) SCALE: NOT TO	SCALE							
SUPPORT FROM MAIN OR BRANCH DUCT								
FLEXIBLE DUCT 5'-0" MAXIMUM LENGTH								
		SPIN-IN TAP	FLEXIBLE DUCT MAXIMUM 5'					
CONTROL VOLUME DAMPER	LINE METAL PLI FIT DIFFUS	D SHEET ENUM TO ER NECK						
EXTERNAL FLEXIBLE DUCTWORK ELBOW-								
			CEILING					
				G [/] R BRANCH DUCT				
SUPPLY DIFFUSER				-				
CEILING DIFFUSER DETAIL SCALE: NOT TO SCALE					-			
9 10	11	12	13	14	15	16		MECH
							Please consider the environ	ment before printing this.

TYPE	POINT	DESCRIPTION	UNITS	TREND	ALARM	TOTALIZE
AI	EH-T	ELECTRIC RE-HEATING LAT	DEG F	Х	Х	
AI	DA-T	DISCHARGE AIR TEMPERATURE	DEG F	Х	X	
AI	SAV-T	SUPPLY AIR VALVE - EAT	DEG F	Х	Х	
AI	OA-T	OUTSIDE AIR TEMPERATURE	DEG F	Х		
AI	SAV-F	SUPPLY AIR VALVE AIRFLOW	CFM	Х	X	
AI	EAV-F	EXHAUST VALVE AIRFLOW	CFM	Х	Х	
AI	EF-F	EXHAUST FAN AIRFLOW	CFM	Х	Х	
AI	DP-HL	DUCT PRESS. EXHAUST	In WC		Х	
DI	EF-S	EXHAUST FAN STATUS	OFF ON	Х	Х	X
DO	EF-C	EXHAUST FAN COMMAND	OFF ON	Х		
AO	EF-O	EXHAUST FAN VFD OUTPUT	%	Х		
AO	EH-O	ELECTRIC HEATING OUTPUT	%	Х		
AO	EAV-O	EXHAUST AIR VALVE OUTPUT	%	Х		
AO	RAV-O	RETURN AIR VALVE OUTPUT	%	Х		
AO	DAT-SP	DISCHARGE AIR TEMP SETPOINT	DEG F	Х		
AO	EAP-SP	EXHAUST AIR PRESS. SETPOINT	In WC	Х		





13	14	15	16	17	
				SHEET M	EYNOTE LEGEND
				1 PROVIDE POWER CONN TRANSFORMER. COORI WITH MECHANICAL CON 2 EXISTING FAN POWERE	PLAN HEX NOTES: IECTION TO AIR VALVE BOX POWER CONTROL DINATE EXACT LOCATION AND OTHER REQUIR ITRACTOR. D BOXES HAVE BEEN REMOVED AND REPLAC
				AIR VALVES. ELECTRIC/ POWERED BOX WILL BE ASSOCIATED WITH THE MECHANICAL CONTRAC	AL CIRCUIT FOR REHEAT COIL ASSOCIATED W E RE-USED FOR THE ELECTRIC REHEAT COIL AIR VALVE. COORDINATE EXACT LOCATION V TOR.
16	17				





7	8	9	10	11	12	13	14	15	16		17
	•					•				S	HEET KEYNOTE LEGEN
D DESCRIPTION CKT G TERMINAL BOX FAN 2 G TERMINAL BOX FAN 4 G TERMINAL BOX FAN 4 G TERMINAL BOX FAN 8 G TERMINAL BOX FAN 10 G TERMINAL BOX FAN 11 NG HEAT RECOVERY 14 NG HEAT RECOVERY 14 NG HEAT RECOVERY 28 KISTING SPACE 30 KISTING SPACE 36 KISTING SPACE 36 KISTING SPACE 38 KISTING SPACE 36 KISTING SPACE 38 KISTING SPACE 34 SECEPTS ROOM 111 12 SRECEPTS ROOM 111 13 RECEPTS ROOM 111 14 SRECEPTS ROOM 111 16 RECEPTS ROOM 111 17 RECEPTS ROOM 111 18 RECEPTS ROOM 111 14 RECEPTS ROOM 111 16	B PANEL NAME: HP2C' EXISTING TERMINAL BOX HEATER 1 EXISTING TERMINAL BOX HEATER 3 EXISTING TERMINAL BOX HEATER 1 EXISTING TERMINAL BOX HEATER 15 EXISTING TERMINAL BOX HEATER 16 EXISTING TERMINAL BOX HEATER 17 SPARE 23 EF1 24 SPARE 23 EF1 24 SPARE 23 EF1 24 SPARE 23 EF1 24 SPARE 25 26 27 - 28 36 - 37 - 38 - 39 - 41 - 53 - 54 -	9 ESTING CIRCU ED BY MOUNTING Internet ED BY MOUNTING CIRCUIT CONFIGURATION VD% 3#12, #12G, 3/4" 0.62% 3#12, #12G, 3/4" 0.33% 3#12, #12G, 3/4" 0.33% 3#12, #12G, 3/4" 0.33% <	10 "HP2B" SURFACE CB P TYPE - 1 - 1 - 1 - 1 - 1 - 1			13 SCHEDULE IS SCHEDULE IS SCHEDULE IS SCATING (A): MCB RATING (A): MA IS SCALCULATED PANEL AM 3412 CALCULATED PANEL AM 314 CONNECTED LOAD: 25775 CONTROLLING LOAD: 25775 CONTROL 25775 CONTROL 25775 CONTROL 25775 CONTROL 25	AD DESCRIPTION CKT G TERMINAL BOX HEATER 2 G TERMINAL BOX HEATER 3 G TERMINAL BOX HEATER 10 G TERMINAL BOX HEATER 12 G TERMINAL BOX HEATER 13 SPARE 22 EF2 24 28 30 32 34 36 34 36 34 36 35 34 36 38 40 42 PS: 30 YA 36 36 38 40 42	 Has All Electrications is and special systems of the provide Memory All Electrications is and special systems of the reduired memory Construction shall sect meep permits and certific reduired by Governme Roules, on Regulations. Final Acceptance of with Apparatus, and Applian Statisfactorial traditions in the construction of back watter, electrication of ba	116 L NOTES: PPLY TO ALL ELECTRICAL AND NGS. REFER TO DIVISION 26, 27 OR ADDITIONAL ELECTRICAL PECIFICATIONS AND HALL BE IN ACCORDANCE WITH TRIC CODE AS ADOPTED BY HALL BE IN ACCORDANCE WITH TRIC CODE AS ADOPTED BY HALL BE IN ACCORDANCE WITH TRIC CODE AS ADOPTED BY HURE AND PAY FOR NECESSARY FICATES OF INSPECTION NTAL ORDINANCES, LAWS, ORK SHALL BE SUBJECT TO SYSTEMS, EQUIPMENT, ADJUSTMENT DEPLACEMENT, ADJUSTMENT DEPLACEMENT, ADJUSTMENT DI ECHINEMENT, ADJUSTMENT DI ECHINEMENT, ADJUSTMENT DI ECHINEMENT, ADJUSTMENT DI ECHINE REFORE THEY , OR CONCEALED BY FILLING, ROVIDE FUEL, TERIALS, LABOR, AND BY TESTS, REPAIR OR REPLACE STAILURES REVEALED BY ED UNTIL SATISFACTORY. MAKE RIALS. TERIALS, AND ACCESSORIES TURES, EQUIPMENT, ETC AS E AND FUNCTIONAL OPERATION OR IN NOTES. E PROVIDED WHEREVER ACCESS TO VALVES, JUNCTION OR IN NOTES. E PROVIDED WHEREVER ACCESS TO VALVES, JUNCTION OR IN NOTES. CONTACT THE OWNER AND ES 5 DAYS PRIOR TO ANY SHUT- IFACTURER CONTACT THE OWNER AND ES 5 DAYS PRIOR TO ANY SHUT- IFACTURER CONTACT THE OWNER AND ES 5 DAYS PRIOR TO ANY SHUT- IFACTURER CONTACT THE OWNER AND ES 5 DAYS PRIOR TO ANY SHUT- IFACTURER CONTACT THE OWNER AND ES 5 DAYS PRIOR TO ANY SHUT- IFACTURER NEEDED DUE TO VERIFY ALL EXISTING BATERIALS, OR OWNER AND ES 5 DAYS PRIOR TO ANY SHUT- THE OWNER'S ALL ED AND CLOSED IN APPROVED IF ON THE ACTOR AND SHUT- ITHE MECHANCALE ALL EXISTOR CATONS AND DIVENTY ANT AND SHUT- ITHE MECHANG	AA. CONFERENCE SOLUTION SOLUTI	172 HEED CONTRACTORS AND PULL BOX NUMERICATIONS STRUMENTS AND CABLING CONTRACTORS. STRUM ACEWARS AND PULL BOX NUMERICATIONS STRUM ACEWARS AND PULL BOX DUPLERS. STRUM ACEWARS AND PULL BOX NUMERICATIONS STRUM ACEWARS AND PULL BOX DUPLERS. FET O ACRITECTURAL EQUIPMENT COORDNAINES EXACT DUPLES SPECIFICALLY NOTE ON PULSION. FET O ACRITECTURAL EQUIPMENT COORDNAINES EXACT DUPLES SPECIFICALLY NOTE ON PULSION. STRUMACEWARS SCIENCE TO RAY CARCUT LISS SPECIFICALLY NOTE ON PULSION. STRUMACEWARS SCIENCE TO RAY CARCUT DUPLES SPECIFICALLY NOTE ON PULSION. 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										A.		RAL NOTES:	AA.		RAL NOTES:	NS
EVI							SCHE		=		SPECIAL SYSTEMS DF AND 28 SPECIFICATIO AND SPECIAL SYSTEM REQUIREMENTS.	RAWINGS. REFER TO DIVISION 26, 27 DNS FOR ADDITIONAL ELECTRICAL MS SPECIFICATIONS AND	BB.	SYSTEM RACEWAYS OWNER AND CABLING REFER TO ARCHITEC	AND PULL BOX LOCATIONS WITH S CONTRACTOR. TURAL EQUIPMENT DRAWINGS F	THE
					TAGE: 480/277V,	3Ph, 4W			-	В.	ALL ELECTRICAL WOF THE 2017 NATIONAL E THE LOCAL AHJ.	RK SHALL BE IN ACCORDANCE WITH ELECTRIC CODE AS ADOPTED BY	CC.	EXACT LOCATIONS O REQUIREMENTS WITH NEUTRALS SHALL NO	F EQUIPMENT. COORDINATE EXA I EQUIPMENT SUPPLIER. T BE SHARED FOR ANY CIRCUIT, Y NOTED ON PLANS	СТ
"HP2C" EXISTIING HP2C	MO	FED BY: "HP2B" UNTING: SURFACE		ENCLOS MANUFACTU PANEL	SURE: NEMA 1 JRER: SQUARE TYPE: NF	D	BUS RA MCB RA MIN. AIC RA	ATING (A): ATING (A): N/A ATING (A): 0 A		C.	CONTRACTOR SHALL MEP PERMITS AND CE REQUIRED BY GOVER BUI ES OR REGULATI	SECURE AND PAY FOR NECESSARY ERTIFICATES OF INSPECTION RNMENTAL ORDINANCES, LAWS, IONS	DD.	INSTALL ALL SWITCH TRANSFORMERS, CO CONDUIT AND SUPPO ROOMS IN A MANNER	BOARDS, PANELBOARDS, NTACTORS, AND ASSOCIATED RT SYSTEMS IN THE ELECTRICA AND L OCATION TO ACCOMMODA	
CKT LOAD DESCRIPTION	CIRCUIT CONFIGURATION	VD% CB P TYPE	Α	В	С ТҮРЕ	P CB VD%	CIRCUIT CONFIGURA		OAD DESCRIPTION C	KT D.	FINAL ACCEPTANCE (THE CONDITION THAT APPARATUS, AND API	OF WORK SHALL BE SUBJECT TO FALL SYSTEMS, EQUIPMENT, PLIANCES OPERATE		THE INSTALLATION O INDICATED IN THE DF PANELBOARD LOCAT FUTURE REQUIREME	F ALL FUTURE PANELBOARDS AWINGS. COORDINATE THE FUT IONS AND THEIR ASSOCIATED NTS WITH ALL OTHER DIVISIONS.	URE
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15 EXISTING TERMINAL BOX HEATER 15 EXISTING TERMINAL BOX HEATER 17 SPARE 10 SPARE		1 20 1 20 1		0	0	1 1 20 1 20		EXISTI	NG TERMINAL BOX HEATER 1 SPARE 1 SPARE 1	14 16 18	CONSTRUCTION OR B WATER, ELECTRICITY EQUIPMENT REQUIRE DEFECTS, AND MATEI TESTS AND THEN BET	BACKFILLING. PROVIDE FUEL, /, MATERIALS, LABOR, AND ED FOR TESTS. REPAIR OR REPLACE RIALS FAILURES REVEALED BY TESTED LINITURES ACTORY MAKE		ANY ROUGH-IN. COOF EQUIPMENT, RECEPT ELEVATOR SHAFT, PI ELEVATOR EQUIPMEI	RDINATE EXACT LOCATION OF AL ACLES AND WIRING DEVICES IN T AND MACHINE ROOM WITH THE IT SUPPLIER PRIOR TO ANY ROU	L THE <u>:</u> JGH-
19 SPARE 21 SPARE 23 EF1 25	 3#12, #12G, 3/4"	20 1 0.62% 20 3	2021 2021	0 0 292	1 2921	1 20 1 20 3 20 0.43%	 3#12, #12G,	, 3/4"	SPARE 2 SPARE 2 EF2 2	22 24 F.	REPAIRS WITH NEW N PROVIDE NECESSAR' FOR INSTALLATION O	MATERIALS. Y MATERIALS AND ACCESSORIES FFIXTURES, EQUIPMENT, ETC AS	FF.	IN. WIRE SIZE INDICATEL SHALL BE CARRIED T CONNECTION AT EQU) BY BRANCH CIRCUIT AT HOMER HROUGHOUT THE CIRCUIT TO FII IPMENT. FINAL EXTENSION OF	UN NAL
23 27 29 EF3	 3#12, #12G, 3/4"	0.33% 20 3	2921 2921	2921 2921 201	8				2	28 30 32 G.	REQUIRED FOR COMP AS NOTED ON DRAWI	PLETE AND FUNCTIONAL OPERATION NGS OR IN NOTES.		CIRCUIT TO EQUIPME CLARITY BUT IS THE CONTRACTOR FOR F	NT MAY NOT BE SHOWN FOR RESPONSIBILITY OF THE ELECTR NAL CONNECTION.	ICAL
33 35 37				2018						34 36 H.	ALL EQUIPMENT, FIXT	TURES, MATERIALS, ETC SHALL BE	GG.	AT ALL FAN COLL UNI BE RESPONSIBLE FO OF POWER FROM THI CONDENSATE PUMPS AUXILIARY DRAIN PAI	S, ELECTRICAL CONTRACTOR'S R MAKING THE FINAL CONNECTIO E FAN COIL CIRCUIT TO ANY 6 OR FLOAT SWITCHES INSTALLE NS. POWER WIRING SHOULD BE	
39 41	CONN		7861 \/A	7861 \/A	261 \/A					40 42 1.	ACCORDANCE WITH M RECOMMENDATIONS. THE CONTRACTOR SH	MANUFACTURER HALL CONTACT THE OWNER AND		TAPPED DOWNSTRE/ SWITCH SO THAT ALL UNIT WHEN THE SWI COORDINATE ALL RO	IM OF THE EQUIPMENT DISCONN POWER IS DISCONNECTED AT T CH IS IN THE 'OFF' POSITION. UGH-IN REQUIREMENTS WITH TH	ECT HE
	*PHAS	E DIVERSIFIED LOAD E DIVERSIFIED LOAD E DIVERSIFIED AMPS	8592 VA 31 A	7861 VA 78 8592 VA 85 31 A 31 A	592 VA 31 A		CALCUL	ATED PANEL AI 31 A	MPS:	J.	COORDINATE ALL OU OFF OF SERVICES. PROVIDE ALL FIRE RA	TAGES 5 DAYS PRIOR TO ANY SHUT-	нн.	MECHANICAL CONTR MANUFACTURER PRI REFER TO THE MECH	ACTOR AND EQUIPMENT DR TO ANY ROUGH-IN. ANICAL DRAWINGS FOR EXACT	
NOTES/ACCESSORIES:					(*DIVERSIFIED L	OADS CALCULA	TED PER THE N PANEL TOTAL D LOAD: 23584	IATIONAL ELECTRIC COD _S I VA	E.)	OPENINGS SHALL BE MANNER. PROVIDE S SCOPE OF WORK.	SEALED AND CLOSED IN APPROVED		EQUIPMENT AND GUA EQUIPMENT AND FIRI LOCATIONS AND QUA DRAWINGS ARE APPI FINAL POSITION OR G	E/SMOKE AND/OR SMOKE DAMPE NTITY SHOWN ON THE ELECTRIC ROXIMATE AND MAY NOT REFLEC UANTITY. ELECTRICAL CONTRAC	RS. XAL XT CTOR
						TO	TAL DIVERSIFIE	D LOAD: 25775 G LOAD: N/A	5 VA	К.	THE CONTRACTOR SH CONDITIONS PRIOR T WILL BE PAID DUE TO CONDITIONS.	HALL VERIFY ALL EXISTING O SUBMITTING BID. NO EXTRAS O UNANTICIPATED EXISTING		SHALL PROVIDE FINA EQUIPMENT. WHERE MECHANICAL PLANS, ELECTRICAL PLANS,	L CONNECTION TO ALL MECHANI EQUIPMENT IS SHOWN ON THE BUT NOT SHOWN ON THE ELECTRICAL CONTRACTOR SHAL	CAL _L
										L.	THE CONTRACTOR SH WORK WITH REGARD BUILDING.	HALL SCHEDULE AND EXECUTE ALL TO THE OWNER'S USE OF THE		PROVIDE POWER TO EQUIPMENT REQUIRE THE BASE BID. LOCA CONNECTION TO MEC AND MAY NOT REFLE	THE EQUIPMENT BASED ON MENTS AND INCLUDE ALL COST TON SHOWN OF ELECTRICAL CHANICAL EQUIPMENT IS SCHEM.	3 IN ATIC
										M.	PLANS ARE DIAGRAM REFER TO ARCHITEC DIMENSIONS.	IMATIC AND SHALL NOT BE SCALED. TURAL DRAWINGS FOR		ROUGH-IN AND CONN PER THE EQUIPMENT AND THE NATIONAL E STRUCTURAL SUPPO	ECTION TO EQUIPMENT SHALL B MANUFACTURER'S REQUIREMEI LECTRICAL CODE. PROVIDE RTS AS REQUIRED FOR MOUNTIN	E NTS NG
											a. REFER TO AI TYPICAL ROU COORDINATI MOUNTING H ROUGH-IN.	NET THE COURSE DRAWINGS FOR OM INTERIOR ELEVATIONS. E EXACT DEVICE LOCATIONS AND HEIGHTS WITH ARCHITECT PRIOR TO		OF DISCONNECTING REQUIREMENTS WITH AND EQUIPMENT MAN IN.	I THE MECHANICAL COUGH-IN I THE MECHANICAL CONTRACTO IUFACTURER PRIOR TO ANY ROL	R JGH-
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										N	INSTALLATIC INSTALLED I SHALL NOT E	DN. ALL WIRING DEVICES SHALL BE N ACCESSIBLE LOCATIONS AND BE CONCEALED. S AS REQUIRED TO PROPERLY		POWER TO THE UNIT AREA SMOKE DETEC DETECTOR IN THE RE HANDLING UNIT. LOC ADJACENT TO FACH	TION DETECTION OF SMOKE BY FION SYSTEM OR BY THE DUCT TURN AIR OF THE ASSOCIATED / ATE CONTACTOR ABOVE THE CE FAN COUL UNIT COORDINATE WIT	
										O.	INSTALL THE RACEW/ ALL EMPTY CONDUITS PROOF PULL-TAPE, L/	AYS AND CIRCUITS INDICATED. S SHALL BE PROVIDED WITH ROT- ABELED AT EACH END. ALL		FIRE ALARM CONTRA AND CONTROL. REFE POWER PLANS FOR C QUANTITY. REFER TC	CTOR FOR PROPER COIL VOLTAGE R TO MECHANICAL SCHEDULES A CONTACTOR AMPACITY AND POLI SPECIAL SYSTEMS PLANS FOR	€ AND E
										P.	SEAL ALL PENETRATI	OPEN-ENDED.	JJ.	SUPPORTS, CONDUIT WITH EXPOSED STRU MATCH ADJACENT FIL	NATION. , BOXES, ETC. INSTALLED IN ARE ICTURE SHALL BE PAINTED TO NISHES	AS
											RESISTANCE RATING ARCHITECTURAL PLA RATED ASSEMBLIES, REQUIREMENTS.	OF ASSEMBLY. REFER TO NS AND SPECIFICATIONS FOR FIRE STOPPING MATERIALS, AND				
										Q.	EACH CONTRACTOR / SHALL REVIEW THE B INCLUDING ALL OTHE PROVIDE ANY MISC. I	AND SUB-CONTRACTOR OR TRADE BID DOCUMENTS AS A WHOLE, R TRADES' DRAWINGS AND TEMS, MATERIALS, WORK, ETC				
											REQUIRED TO COMPL BID DOCUMENTS. THI TRADES. STRUCTURA PLUMBING, EQUIPMEI	ETE THE WORK AS SHOWN ON ALL S REQUIREMENT APPLIES TO ALL AL, MECHANICAL, ELECTRICAL, NT VENDORS, ETC. REQUIREMENTS				
											AND RELATED WORK BID DOCUMENTS AND SPECIFIC MEP, STRUC EQUIPMENT DRAWING	ARE INDICATED THROUGHOUT THE) SHALL BE REVIEWED WITH THE CTURAL, ARCHITECTURAL, AND GS FOR OVERALL SCOPE OF WORK.				
										R.	ELECTRICAL CONTRA CONNECTION TO ALL EQUIPMENT IS SHOW NOT SHOWN ON THE	CTOR SHALL PROVIDE FINAL MECHANICAL EQUIPMENT. WHERE N ON THE MECHANICAL PLANS, BUT ELECTRICAL PLANS, ELECTRICAL				
											CONTRACTOR SHALL EQUIPMENT BASED O INCLUDE ALL COSTS I a. LOCATION SI	PROVIDE POWER TO THE IN EQUIPMENT REQUIREMENTS AND IN THE BASE BID. HOWN OF ELECTRICAL				
											CONNECTIO SCHEMATIC CONNECTIO CONNECTIO EQUIPMENT	AND MAY NOT REFLECT ACTUAL N POINTS. ROUGH-IN AND N TO EQUIPMENT SHALL BE PER THE MANUFACTURER'S REQUIREMENTS				
											AND THE NA PROVIDE ST REQUIRED F MEANS. VER	TIONAL ELECTRICAL CODE. RUCTURAL SUPPORTS AS OR MOUNTING OF DISCONNECTING RIFY ALL ROUGH-IN REQUIREMENTS				
							PANEL	PANEL	PANEL	S.	WITH THE MI EQUIPMENT ROUGH-IN. PROVIDE FINAL CONN	NECTION TO ALL EQUIPMENT.				
							"PP2A"	"LP2A"	"HP2A"		INCLUDING ANY CORE NOT PROVIDED WITH OR NOT). COORDINAT SUPPLIER AND OWNE	D AND PLUG SETS FOR EQUIPMENT IT (WHETHER SPECIFICALLY NOTED E ALL WORK WITH THE EQUIPMENT ER; AND VERIFY ALL ROUGH-IN				
										T.	LOCATIONS AND REQ IN. THERMOSTATS AND A CONTROL WIRING SH	AUREMENTS PRIOR TO ANY ROUGH-				
											BY THE HVAC CONTR CONTRACTOR SHALL NECESSARY CONDUI INSTALLATION OF THE	ACTOR. THE ELECTRICAL FURNISH AND INSTALL THE T, BOXES, ETC. FOR THE ERMOSTATS. THE HVAC				
							=		=		CONTRACTOR SHALL INSTALLATION AND C AND ALL CONTROL W PLANS FOR THERMOS	BE RESPONSIBLE FOR THE ONNECTION OF THE THERMOSTATS IRING. REFER TO MECHANICAL STAT LOCATIONS.				
							PANEL	PANEL	PANEL		ACCESSIBLE DIVISION 23 FOR BUILDIN COORDINATI	E CEILING AS REQUIRED FOR THE WALL MOUNTED CONTROL DEVICES NG AUTOMATION SYSTEM DEVICES. E EXACT LOCATIONS AND OTHER				
											REQUIREME AND THE TEL CONTRACTO THERMOSTA	NTS WITH MECHANICAL DRAWINGS MPERATURE CONTROLS DR PRIOR TO ROUGH-IN. NTS, TEMPERATURE SENSORS,				
											ETC. SHALL ELEVATION / REQUIRED C	BE INSTALLED AT THE SAME AS THE LIGHT SWITCHES UNLESS DTHERWISE.				
				L						U.	PROVIDE UNSWITCHE NEAREST CIRCUIT TO FIXTURES WITH INTEG	ED/UNCONTROLLED HOT FROM DEXIT SIGNS AND EMERGENCY GRAL BATTERIES.				
										v.	UTILITY COMPANY AN SERVICE AS INDICATE COSTS, CHARGES, FE COMPANY INTO BID. 1	ID ARRANGE FOR ELECTRICAL ED ON DRAWINGS. INCLUDE ALL EES, ETC. INCURRED BY UTILITY PROVIDE ALL MATERIALS AS				
											REQUIRED BY LOCAL SERVICE INSTALLATIO ACCORDANCE WITH T AUTHORITIES.	AUTHORITIES FOR ELECTRIC ON. ALL WORK SHALL BE IN THE REQUIREMENTS OF LOCAL				
							N			W.	PROVIDE A SEPARATI GROUND CONDUCTO CONTAINING LINE VO	E CODE SIZED GREEN EQUIPMENT R IN ALL CONDUITS AND RACEWAYS LTAGE CIRCUITS (120V OR HIGHER).				
		PA1 "PPI	NEL PBA"			=	→ →			Х.	REFER TO SPECIAL S APPROXIMATE LOCAT NURSE CALL, ETC. DE ALL ELECTRICAL EQU	YSTEMS SHEETS FOR TIONS OF ALL DATA, TELEPHONE, TV, EVICES. COORDINATE LOCATION OF JIPMENT WITH SPECIAL SYSTEMS				
										Y.	DEVICES. PROVIDE ALL RACEW TRAY, ETC. AS INDICA DATA, PHONE. TV CAP	AYS, SLEEVES, BOXES, CABLE ATED FOR THE OWNER PROVIDED BLING SYSTEM. COORDINATE FXACT				
			Г]		٦				REQUIREMENTS WITH CONTRACTOR.	HOWNER AND OWNER CABLING				
			L													

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			1	2		3		4		5			6
	Α.	Bu	ilding Code							G. N	liscellaneo	pus	
R	В.	1. De	The design and cor Summit, Missouri. sign Loads	nstruction shall conform to th	ne 2018 Internat	tional Building Code	(IBC) as amer	nded by the City	of Lee's	1	Periodic determi limited s rather p enginee	c site observation b ning if the work of t site observation sh eriodic in an effort er shall not be cons	y field re the contrould not to guard
	-	1. 2.	This project is desig of the code. Dead Loads a. The roof moun submit actual v	igned to resist the most critic nted equipment weights used weights for all roof mounted	al loads resultir d for design are equipment for r	ng from the basic load indicated on the con review by the Engined	d combination tract documer er.	ns outlined in sec nts. The Contra	ctor shall	2	docume . The bui load bea for mair structur	ents. Iding is not structur aring walls (where ntaining structural s al work is complete	⁻ ally stab applicab stability c ∋.
Q		3.	Wind - The wind loa	ad is in accordance with AS	CE 7 with the fo	bllowing criteria:				3	. The cor	ntractor shall not al	ter or mo
			 a. Basic wind spectrum b. Allowable Strection c. Risk Category d. Exposure Category e. Components 8 	eed ess Design Wind Speed / ergory & Cladding Force	V3S 91 n III C per o	S=117 mph nph code				4	The cor not indic respons The eng	ntract structural dra cate the method or sible for all construct gineer will not be re	wings an means ction me
P	-	4.	Seismic - The seisr a. Importance Fa b. Risk Category c. 0.2 sec Spectr d. 1.0 sec Spectr e. Soil Site Class	mic design is in accordance actor / ral Response Acceleration ral Response Acceleration s	with the genera IE=1 III Ss= S1= D	I building code with t 1.25 9.9% 6.8%	he following c	riteria:		5	 See arc and coc represe may or drawing 	hitectural, mechan ordinate as required nt the building's str may not be cut at s	ical, elec i. These uctural s pecific l
N		64	f. Design 0.2sec g. Design 1.0sec h. Seismic Desig i. Basic Seismic	c Spectral Response Acceler c Spectral Response Acceler gn Category c Force Resisting System	ation Sds ation Sd1 B Stee	=10.5% =10.9% el systems not specifi	ically detailed	for seismic resis	stance	6	drawing with cor . All exist Enginee	s, civil drawings, a ntents of above set ing field and buildin er of Record regard	nd mech s specifi ∩g condi ling any
		3u 1. 2.	All steel fabrication Institute of Steel Co a. Steel design sl Grade	n and erection shall be in acc onstruction (AISC) Code of S shall be per Allowable Stress	ordance with th Standard Practic Design as outli	e requirements and r ce for Steel Buildings ined by AISC.	ecommendati and Bridges,	ions of the Amei Latest Edition.	rican	7	. Submitt a. Su Su b. Su Th	als bmittals are to be b pplemental Instruc bmittals shall be or is includes, but is r	based up tions (AS riginal do not limite
M 	-	3	 a. Steel W and W b. Channels, ang c. Square hollow d. Round hollow e. Connection matching 	NT-shapes ASTM A992 or A gles and plates ASTM A36 v structural shapes ASTM A structural shapes ASTM A aterial ASTM A36	STM A572, Gr. 500, Grade C (500, Grade C (50 50 ksi) 46 ksi)					c. Pri the affi rev d. De prc	wing that is not on or to submission of means, methods, ixed to all shop dra riew stamp will be sign Calculations - oject. Provide the f	f the sub techniqu wings pr returned All calco ollowing
L		J.	 a. All steel connections b. Connection de design shall be are service lev c. All bolted later connections. 	ection design shall be in acc s and Specification for Struc esign shall be based on reac e 15k shear and 5k axial unl vel loads. ral bracing connections (bea	ordance with the tural Joints Usir tions listed on tl ess noted other ms, columns, a	e requirements of the ng High-Strength Bolt he drawings and spe- wise. All gravity and nd bracing) shall be o	e AISC Specifi ts. cifications. M lateral loads r designed as si	ication for Struct linimum connect noted in the draw lip critical	ural ion <i>v</i> ings		1. 2. e. Su 1. 2. 3. 4. f. Su	Structural Steel of Cold formed steel bmittals - Provide t Structural Steel Miscellaneous S Open Web Steel Metal Deck bstitutions are allow	connecti 3 framin he follov teel inclu Joist wed price
К		4	 d. It is the prefere otherwise on the Design calcula located shall b f. Field welding s set forth by the 	rence of the Engineer of reco the drawings. ations sealed by a profession be submitted for the architect shall be performed by a qual e American Welding Society	rd to have shop hal engineer lice t/engineer recor ified welder and . Welding elect	o welded, field bolted ensed to practice in th rd. Calculations shall d conform to the lates trodes shall be E70X	connections une jurisdiction be well organ t publication of X.	unless shown where the proje nized and indexe of applicable coo	ct is ed. des	Н. S 1 2	Special Insp Special Special and any	pections (based o inspection reports other pertinent en repancies found by	n 2018 I shall be tity in a the spe
	_	4. 5.	The contractor shal include, but is not li	Ill supply all miscellaneous s imited to, shelf angle, glass	teel as required support, lintels,	by the contract docu catwalks and other s	iments. Misce steel required t	ellaneous steel s for stabilization (hall of	3	correcte . Upon co inspecto	ed. If the contracto completion of the pro pr's knowledge, con	r is unat oject, the mpleted
J		6.	architectural eleme The Contractor sha 052100, 053100, 05 Engineer. Any unus	ents. all provide an additional allow 55000) for steel material, fat sed portion of the allowance	vance of 2% of to prication and ere shall be returne	the steel bid (include: ection to be used at t ed to the owner.	s specificatior he direction o	n sections 05120 f the Structural	10,	4	 The Ow as require Steel (ir 	rner shall retain spe ired to assist with s ncludes structural s	≥cial insp special ir steel, jois
	D.	Ор	en Web Joist								a. Pe 1.	riodic Single-pass fillet	welds n
		1.	Open web steel jois Steel Joist Institute	st shall be designed, fabricat e (SJI).	ed and erected	in accordance with t	he latest reco	mmendations of	:		2. 3. 4.	Headed stud and Welding of stairs	CK attac chors and rai
Η		2.	Following are the m steel: a. K-series - 2 1/2'	ninimum end bearing and we 2 bearing with a 1/8"x2" fillet	eld requirements weld each side	s when an open web of the joist seat.	steel joist bea	ars on structural			5. b. Co 1. 2.	High strength bo ntinuous Partial and full p All other welding	lts enetratic not cov
	_	3.	All joists have been additional loads sho load. All snow drift l	n selected based on the unifo own on the plans (Mechanic loads shall be included in th	orm dead and liv al equipment, b e appropriate co	ve loads noted in sec asketball goals, etc.) ode load combination	ction B.2 and I shall be adde is.	B.3 above. All ed to the uniform	live				
G		4.	Following are the m a. K-series - 4" be embed plate w b. LH/DLH-series to the embed p	ninimum end bearing require bearing on an embed plate lo with a 1/8"x2" fillet weld each s - 4" bearing on an embed p plate with a 1/4"x2½" fillet we	ments when an cated not more side of the joist plate located not eld each side of	to open web steel joist than $\frac{1}{2}$ " from the fac t seat. t more than $\frac{1}{2}$ " from t f the joist seat.	bears on load e of the wall. the face of the	d bearing CMU: Weld the joist to e wall. Weld the	the joist				
		5.	All joists, joist girde	ers and joist accessories sha	II be designed f	for a net uplift of 13 p	sf in the corne	ers, 10 psf at the)				
F		6.	All roof bar joists sh added as required, to uplift.	hall be designed for uplift as , and the joist manufacturer s	stipulated by th shall certify that	ne applicable building the joists have been	code. Extra l designed for	bracing shall be reverse bending	due				
	-	7.	All bar joists shall h addition to horizonta wall top and bottom additional bolted "X	have horizontal bridging as re tal bridging where horizontal n of joist. The erector shall f K" bridging required for erecti	ecommended by bridging is disc ollow the latest on stability.	y the Steel Joist Insti ontinuous, unless ho requirements of the \$	tute. Provide rizontal bridgii Steel Joist Ins	rigid "X" bridgin ng is connected stitute regarding	g in to a				
E		8.	All hangers support girders shall be hur to be hung in this m	ting pipe, equipment, conduing from top chords and within manner, the contractor shall i	t, etc. of more t n 2" of web pan notify the engine	than 200 lbs. support lel points. If interfere eer for required modi	ed from steel nces exist tha fications.	bar joists or jois at will not allow p	t ipe				
D	E.	Ste 1. Co	eel Deck Crimped or button p Id Formed Steel	punched side lap fastening i	s not allowed fo	or any roof deck or flo	or deck.						
	_	1. 2	All cold formed stee edition of the Ameri	el framing shall be designed rican Iron and Steel Institute	, fabricated and (AISI) Specifica t documents ba	l erected in accordan ation.	ce with the ree	commendations	of latest				
		<u> </u>	Association (SSMA	A) nomenclature.	inoun								
С		3. 4.	Top and bottom tra	acks shall match the wall stud	imum. d thickness and	l depth.							
		5.	All welding shall co	onform to latest AWS D1.3.		·							
		6.	Pre-drill holes for al	all screws which are not self-	apping.	(() // ()							
В		7. 8.	All screwed connect	ctions shall provide for a min	imum of ½" edg	ge distance and spac	ing. All screw	vs shall be comp	letely				
	_	9.	All floor and roof fra	aming shall align with the wa	ll stud below.	יט טווב מווטנוופר.							
		10.	Joist blocking shall	I be spaced at 8'-0" OC maxi	mum.								
Α		11. 12.	. Composite design o	or sneatning and wall studs i ers shall be cut square such t	s not allowed. hat they fit tight	t at all perpendicular	connections.						
		13.	Field splices of stru	uctural cold formed members	s are not allowe	d							
			1	2		3		4		5		(6

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ield representatives of Hollis and Miller Architects, if provided, is solely for the purpose of contractor is proceeding in general accordance with the structural contract documents. This d not be construed as exhaustive or continuous to check the quality or quantity of the work, but guard the owner against defects or deficiencies in the work of the contractor. Observations by the ered inspections, and in no way relieves the contractor of any requirements of the contract

y stable until all connections, framing, shearwalls, permanent bracing, metal decking, and exterior plicable) are complete and have achieved their design strength. Contractor is solely responsible bility during erection and construction. Temporary bracing systems are not to be removed until

r or modify work shown on the structural drawings without receiving written approval from the cur between the drawings and specifications, the strictest interpretation shall govern.

ngs and specifications represent the finished structure, and except where specifically shown, do eans of construction. The contractor shall supervise and direct the work and shall be solely n means, methods, procedures, techniques, sequence, and safety precautions and programs. onsible for the acts or omission of the contractor, subcontractor, or any other persons performing lure of any of them to carry out the work in accordance with the contract documents.

, electrical, and plumbing drawings for other pertinent information related to the structural work These structural drawings are intended to be utilized as a complete set of documents that tural systems. No single sheet or series of sheets is intended to "stand alone". Typical details cific locations throughout the drawings, but are to be applied where required. These structural ncluded in a complete set of construction documents, including but not limited to, architectural I mechanical/electrical/plumbing drawings. Contractor shall verify coordination of these drawings pecified and only proceed with bidding and construction after such has taken place.

conditions shall be verified by the Contractor before any other work shall begin. Coordinate with g any discrepancy with existing building dimensions.

sed upon the latest submitted contract documents. This includes all addendums, Architectural ns (ASIs), Structural Supplemental Drawings (SSD's), and Requests for Information (RFI's). nal documents. Shop drawings shall not be a duplication, in any way,of the contract documents. limited to, photocopies, electronic drawing copying or electronic scanning. Any submitted shop nal will be rejected and returned without review.

he submittals to the Architect, the Contractor shall review the shop drawings for conformance to chniques, sequences and operations of construction. The Contractor's review stamp shall be ngs prior to Architect or Structural Engineer review. Shop drawings not bearing the Contractor's urned without review.

I calculations shall be signed and sealed by a professional engineer licensed in the State of the owing design calculations for review: nections

raming - exterior wall and load bearing following submittals for review:

el including lintels, stairs, etc.

d prior to bid only. Reference the specifications for timing of submission

2018 IBC, Chapter 1704)

nall be submitted to the Building Official, Owner, Architect, Engineer, Contractor, Sub-Contractor in a timely manner.

ne special inspector shall immediately be brought to the attention of the general contractor and s unable to correct the discrepancy, the special inspector shall notify the Architect and Engineer.

t, the special inspector shall submit a final report delineating that the work was, to the best of the leted in conformance with the approved contract documents and applicable building code.

al inspection services for the items listed below. The Contractor shall provide light general labor cial inspections.

l, joist, deck and anchor rod placement)

elds not exceeding 5/16 inch in size. attachment

d railing systems

tration welds. ot covered in periodic inspections.

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epresentati actor is pro be constru	ves of Hollis and Miller Arc oceeding in general accord ed as exhaustive or contin	hitects, if provided, is so lance with the structural uous to check the qualit	olely for the purpose of contract documents. ty or quantity of the w	of This ork, but ons by the											ABBREVIATION
le until all	and in no way relieves the connections, framing, shea	e contractor of any requi arwalls, permanent braci heir design strength. Co	irements of the contra ing, metal decking, an ontractor is solely res	ct nd exterior ponsible											ADDL additional ALT alternate ARCH architect AR anchor rod B BLDG building
luring erec	tion and construction. Ten	nporary bracing systems	s are not to be remov	ed until											BM beam BOT bottom BRG bearing BTWN between C
nd specification of construction ans, metho le for the a f any of the	ations represent the finishe ations. The contractor shall ods, procedures, technique cts or omission of the cont em to carry out the work in	ed structure, and except supervise and direct the s, sequence, and safety ractor, subcontractor, or accordance with the cor	ation snail govern. where specifically she work and shall be so y precautions and pro r any other persons p ntract documents.	own, do Iely grams. erforming											C Compression CANT cantilever CL center line CLR clear CIP cast in place CJ control joint CJP complete joint penetration COL column CMU concrete masonry unit
ctrical, and e structural systems. Nocations the ed in a contantical/elected ed and onl	plumbing drawings for oth drawings are intended to l lo single sheet or series of roughout the drawings, bu nplete set of construction o strical/plumbing drawings. y proceed with bidding and	er pertinent information be utilized as a complete sheets is intended to "s t are to be applied where locuments, including bu Contractor shall verify c	related to the structu e set of documents th stand alone". Typical re required. These stu at not limited to, archit coordination of these has taken place.	ral work at details uctural ectural drawings											CONC concrete CONN connection CONTR contractor CONST JT construction joint CONT continuous D dead load db bar diameter DBA deformed bar anchor DLT detail DIA diameter
tions shall discrepanc	be verified by the Contract by with existing building din	or before any other work nensions.	k shall begin. Coordi	nate with											DIM dimension DN down DWG drawing DWL dowel E seismic load
on the late SIs), Struct cuments. d to, photo be rejecte mittals to t ues, seque ior to Arch	est submitted contract docu ural Supplemental Drawing Shop drawings shall not b copies, electronic drawing ed and returned without rev he Architect, the Contractor nces and operations of con itect or Structural Engineer	iments. This includes a gs (SSD's), and Reques e a duplication, in any w copying or electronic so iew. or shall review the shop instruction. The Contrac review. Shop drawings	all addendums, Archite sts for Information (RF vay,of the contract do canning. Any submitt drawings for conform stor's review stamp sh s not bearing the Con	ectural il's). cuments. ed shop ance to all be tractor's											EA each EF each face EM modulus of elasticity EXP JT expansion joint ELEV elevation ENGR engineer EQ equal EW each way EXIST existing EXT exterior E
ulations sh design cal ons g - exterior ving submi	view. all be signed and sealed b culations for review: wall and load bearing ttals for review: s. stairs. etc.	y a professional enginee	er licensed in the Stat	e of the											FB field bend FD floor drain FF finish floor FIN finish FND foundation FLR floor FTG footing FS far side FV field verify G
r to bid onl BC. Chapt	y. Reference the specifica	tions for timing of subm	ission												GAgaugeGBgrade beamGALVgalvanizedHHorizontal shearHORZhorizontal
submitted imely man	to the Building Official, Ov ner.	vner, Architect, Enginee	r, Contractor, Sub-Co	ntractor											HSA headed stud anchor HT height IF inside face INT interior
e special in in conform	ct the discrepancy, the spe spector shall submit a fina ance with the approved co	ecial inspector shall notif report delineating that ntract documents and a	fy the Architect and E the work was, to the applicable building cod	ngineer. Dest of the le.											JST joist JT joint K kip (1000 lbs)
pection ser spections.	vices for the items listed b	elow. The Contractor sh	hall provide light gene	ral labor											KSF kips per square foot KSI kips per square inch L live load LBS pounds
ot exceedii hment	ng 5/16 inch in size.														Id development length LLBB long leg back to back LLH long leg horizontal LLV long leg vertical LWT light weight M
ing system n welds. ered in per	is iodic inspections.														M strong axis moment MAX maximum MECH mechanical MEP mechanical/electrical/plumbi MEZZ mezzanine MFR manufacturer MIN minimum
															MIR mirror MISC miscellaneous N NIC not in contract NS near side
															NTS not to scale NWT normal weight OF outside face OC on center OPNG opening
															OPP opposite P axial load PAF powder actuated fastener PC precast PCF pounds per cubic foot
															PL plate PLF pounds per linear foot PSF pounds per square foot PSI pounds per square inch PT point
															R radius RE reference REINF reinforcement or reinforcing REQD required REV revision RTU roof top unit S
															Ssnow loadSCslip criticalSCHEDscheduleSECTsectionSHTsheetSIMsimilarSPAspacingSPECspecificationSQsquareSTDstandardSTIFstiffenerSTLsteelSYMsymmetrical
															TtthicknessTtensionTHRDthreaded rodTOtop ofTOCtop of concreteTOMtop of masnryTOStop of steelTOWtop of wall
															TYP typical U U UNO unless noted otherwise V vortical shear
															v vertical shear VAR varies VERT vertical W W/ W/ with W wind load
															WDLnominal dead loadWLLnominal live loadWPwork pointWSLnominal snow loadWTweightWWRwelded wire reinforcingYYDYDcubic yard
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