	ADD-ALTERNATE - DEMO & NEW PACKAGED AIR COOLED WATER CHILLER UNIT SCHEDULE																						
DEMO & NEW	EXIST. "McQUAY"	"McQUAY" CHILLER CHILLER TOTAL TOTAL		CHILLER EVAP.	2	UNIT	ER TOT		COMPRES	SSORS		CONDENSI		NG FANS			UNIT TOTAL MAX.DESIGN	DESIGN			NOTES AND ACCESSORIES		
CHILLER MARK NUMBER	& NEW "DAIKIN" MODEL NO's	MODE OF OPER	RATED TONS CAPACITY	WATER FLOW GPM	MAX.	EWT °F		ERFORM. EER & IPLV		TOTAL MAX KW ALLOW.	RLA EACH	LRA EACH	TOTAL NO. EACH	ALLOW.	FLA EACH	LRA EACH	CONTROLS	OPER. AMPS	MAX. & (MIN.) AMBIENT TEMP F	UNIT VOLTAGE V/PH/HZ	NOTES AND ACCESSORIES REQUIRED	1. 2. 3	(a) SEMI-HERMETIC OR (b) SCROLL COMPRESSORS PART WINDING START CIRCUIT BREAKERS
DEMO EXISTING	1	CHILLER	158 126.5	493 493	25 25	48	38 158.0 24 158.0		(4) RECIP	265.5	93 93	330 330	14	1.5 1.5	2.8	15 15	2	420A.(500) 420A.(500)	95 (20) 85 (20)	46 0/3/60	1(a) THRU 16	4. 5.	REPLACEABLE FILTER DRYER 115 VOLT CONVENIENCE OUTLET
ACC-1 NEW ACC-1	#ALR185D NEW "DAIKIN"	CHILLER	99.0	250/300			38 123.2		(4)SCROLL	+	(2)37.8	(2)310.0 (2)320.0	8	1.5	3.6	18	2	227.1A.(250)	, ,	460/3/60	1(b) THRU 16	6. 7. 8.	NON-FUSED DISCONNECT SWITCH ANTI-RECYCLE TIMER 115 VOLT CONTROL TRANSFORMER
CHILLER		ICE	NOT USED) –	_			15.87	_	_		_	_	_	_	_	_	_	_	100/ 3/ 00	1(b) 1111(0 10	9. 10. 11	PHASE FAILURE-REVERSAL PROTECTION WATER FLOW SWITCH-FIELD MOUNTED HOT GAS BYPASS-BOTH CIRCUITS
																						12.	5 YEAR COMPRESSOR "PARTS ONLY" WARRANTY (8) STED MIN. CARACITY CONTROL

(ADD-ALTERNATE-ADJUST BLDG CHW PUMP)

`							
Ε	XISTIN	G BLDG CH	⊢W F	PUMP)—CH	HWP-	- 3
EXIST. PUMP MARK	EXIST CHWP "TACO" MODEL NO.	EXIST CHWP-3 PUMP SERVICE	PUMP	CHWP-3 TOTAL GPM(ADJ)	TOTAL	MOTOR	CHWP-3 VOLTAGE V/PH/HZ
CHWP-3	FM3010	BLDG. SYSTEM CHW	1760	~350	 ~90−FT.	15	460/3/60

(ADJUSTED & RE-BALANCE) (ADJUSTED)(ADJUSTED)

NOTES:

EXIST. CHWP-3 PUMP SHALL BE NEWLY-ADJUSTED & RE-BALANCED FOR NEW TOTAL ADJUSTED CHWS WATER FLOW & HEAD (TDH) & SHALL BE RECORDED BY CERTIFIED TEST AND BALANCE CONTRACTOR TO ASSURE THE ABOVE FLOW RATES ARE ADJUSTED FOR THE ADD-ALTERNATE CHILLER REPLACEMENT PORTION OF PROJECT WORK TO DONE UNDER

"ADD-ALTERNATE" FOR NEW CHILLER REPLACEMENT WORK.

(ADJUSTED & RE-BALANCE)

REVISIONS

DESCRIPTION

DATE

IFOB DEC. 16, 2019 ISSUED FOR OWNER BIDDING.

(ADD-ALTERNATE-ADJUST CHW PUMPS & PFHE FLOWS)

	PACKAGED CHW TRANSFER/PUMPING UNIT																				
PUMPING DATA										HEAT EXCHANGER DATA (PFHE)											
PUMP NO.	OPERATION	"SYSTECON" MODEL NO.	PUMP SERVICE	GPM	FT. HD.	HP	RPM	VOLTAGE V/PH/HZ			_		JUST) HOT SI		_			ADJUST) COLD SII			
EXIST CHP-1	PRESENT	F1030AM	CHW PRIMARY		90	15	1760	460/3/60	-	OPERATION	PIPE SIZ	E (ADJUST)	INLET TEMP.	°F OUTLET TEMP. °F	MAX. \triangle P	PIPE SIZ	(ADJUST) E GPM	INLET TEMP. °F	OUTLET TEMP. °F	мах. ДР	
EXIST CHP-2	PRESENT	F1030AM	CHW PRIMARY	250	90	15	1760	460/3/60		PRESENT	6"	350(ADJ.)	52.0	42.0	5.3	6"	250/300	39.0	48.6	7.0	
(ADJ. EXIST)	(ADD ALTERN.)	(EXIST/CHP)	CHW PRIMARY	250-30C	BAL/90'+	(EXIST)	(EXIST)	(EXIST)		FUTURE	6"	600	52.0	42.0	6.9	6"	670	39.0	48.6	8.7	
,	(ADD ALTERN.)	, ,			· ·		(EXIST)	(EXIST)	-			(ADJUSTE))		(ADJUSTED & RE-BALANCE)						

NOTES:

1. ADD-ALTERNATE THIS PROJECT REQUIRES T&b BALANCING PUMPS SHALL BE SIZED FOR GPM LISTED, MULTIPURPOSE VALVES SHALL BE RE-BALANCED & SET FOR AD-ALTERNATE GPM CAPACITY.

(ADJUSTED) (ADJUSTED & RE-BALANCE)

2. EXIST. UNIT HAS A CENTRIFUGAL VORTEX TYPE FULL WATER FLOW SEPARATOR UNIT WITH LIQUID RECOVERY SYSTEM AS PART OF ORIGINAL EQUIPMENT INSTALLED.

1. COLD SIDE INLET TEMP. INDICATES 1 DEG. F. LINE LOSS.

DESIGNED BY:
S.BRAUNBECK & J.CAPITAN DESIGN & ENGINEERING ENERGY SYSTEMS INFRASTRUCTURE UTILITIES DECEMBER-16-2019 | SYSTEMS ANALYSIS 315 EAST BROAD STREET, GREENVILLE, SC 29601 GREENVILLE, SC TEL. NO. (864) 505-5358 COMMISSIONING REVIEW 3106 RIVERINE VIEW, CHARLESTON, SC 29414 CHARLESTON, SC TEL. NO. (864) 505—2976 Em: joecapitan@gmail.com

THIS DRAWING IS THE PROPERTY AND COPYRIGHT OF DELTA ENGINEERING BE USED OR COPIED WITHOUT WRITTEN COPYRIGHT ©

13. (8)—STEP MIN. CAPACITY CONTROL

15. OPEN PROTOCOL WITH "BAS" CONTRACTOR

16. ALL CAPACITIES & PERFORMANCES ARE BASED

"MICROTECH" DDC STAND-ALONE CONTROLLER

ON 25% ETHYLENE GLYCOL-WATER SOLUTION.

RUGBY - NEW HVAC UPGRADE SYSTEMS SCHEDULES & **DETAILS**

2019 - 2020 HVAC UPGRADES TO FLAT ROCK & RUGBY MIDDLE SCHOOLS

414 - 4TH STREET, HENDERSONVILLE, HENDERSON COUNTY, NORTH CAROLINA 29621

HENDERSON COUNTY PUBLIC SCHOOLS

SMD-D65048500AY | 15"x15" | AS NOTED | 1,2,3,5 R SMD-D900-41-2000Y 18"x18" AS NOTED 1,2,3,5 50-4-2000AY PLAN SIZES AS NOTED 1,2,3,5 FOR ALL EXPOSED SIDEWALL DUCT MOUNTED AND HARD SIDEWALL SURFACE MOUNTED SUPPLY AIR GRILLE APPLICATIONS: 520D **♦**—**28**0WAY | 8"x6" | AS NOTED 1,2,3,5 1,2,3,5 520D 20|0226W0AY| 2"x4" AS NOTED 1,2,3,5 W 520D 1,2,3,5 57527200AY 16"x10" AS NOTED 1,2,3,5 520D 1,2,3,5 AA 520D 73/0285/M5AY | 1 | 8"×10" | AS NOTED 520D 89D-210WAY | 18"x12" | AS NOTED 520D 10802131000Y 20"x10" AS NOTED 1,2,3,5 CC 1080213000Y PLAN SIZES AS NOTED 520D 1,2,3,5 CC DD 530D RET/EXH 1,2,3,5 0-180WAY 8"x8" AS NOTED 1,2,3,5 EE 530D RET/EXH 20101280/0AY | 10"x8" | AS NOTED | FF 1,2,3,5 530D RET/EXH 270+3440AY | 12"x8" | AS NOTED | 530D 370+550AY 4"x8" AS NOTED 1,2,3,5 57517200AY | 14"x14" | AS NOTED | 530D RET/EXH 1,2,3,5 730485MAY | 18"x14" | AS NOTED | 1,2,3,5 530D RET/EXH 530D RET/EXH 890-11-07/AY | 18"x18" | AS NOTED | 1,2,3,5 RET/EXH 1080+131/00Y 24"x18" AS NOTED 1,2,3,5 530D LL 100-116000Y PLAN SIZES AS NOTED 1,2,3,5 530D RET/EXH LL NOTES/ACCESSORIES: (VENDOR TO VERIFY ALL FRAMES AND STYLES FOR ALL DEVICES W/PLANS & ENGINEER AT SUBMTL PHASE) 1. PROVIDE DEVICE W/INTEGRAL MANUAL OPPOSED BLADE VOLUME DAMPERS FOR REGULATION OF AIR DEVICE CAPACITY CONTROL. 2. PROVIDE DEVICE w/REQUIRED COLOR TO BE OFF-WHITE POWDER COAT FINISH. 3. PROVIDE DEVICE OF ALL STEEL OR ALUMINUM AS NOTED; EQUAL MODEL SPECIFIED AS THE MIN. BASIS OF DESIGN & QUALITY. 4. PROVIDE DEVICE FOR LAY-IN CEILING APPLICATION. 5. PROVIDE DEVICE FOR MOUNTING ON HARD SURFACE CEILING APPLICATIONS AND/OR DUCT MOUNTED APPLICATIONS.

DIFFUSERS, REGISTERS & GRILLES SCHEDULE

FEØWTERN SIZE

NOM. RANKEE

FOR ALL LAY-IN CEILING SUPPLY AIR DIFFUSERS APPLICATIONS:

FOR ALL LAY-IN CEILING RETURN OR EXHAUST GRILLE APPLICATIONS:

SUPPLY

(EMPPLY INCHES

0-200WAY 6"x6" AS NOTED

2504300AY 9"x9" AS NOTED

300445MAY | 12"x12" | AS NOTED |

4504600AY 15"x15" AS NOTED

OFUIDO FACE 6"0 AS NOTED

26 0 400 AS NOTED

ΦFUIBIO FA¢E | 6"ø | AS NOTED |

15|0FU2L4OFA¢E |8"ø |AS NOTED

25 GHHHOOFACE 10" AS NOTED

45 0 45 0 AS NOTED

72**15+∪8**00FA¢E |16"ø | AS NOTED

82 F-LLLOFACE22"X22" | AS NOTED |

150-42-01/0AY | 9"x9" | AS NOTED

25044900AY 9"x9" AS NOTED

42546940AY 12"x12" AS NOTED

AS NOTED

5**3**\$HZQQFA¢E |14"ø

FOR ALL EXPOSED BOT/DUCT MOUNTED AND HARD CEILING SURFACE MOUNTED SUPPLY AIR DIFFUSERS APPLICATIONS:

DROP

I. W. G.

PRICE INDUSTRIES, INC."

MODEL NO. OR APPVD.

SMD-D-TB

SMD-D-TB

SMD-D-TB

SMD-D-TBPDN-D-TB

PDN-D-TB

PDDR-D-TB

PDDR-D-TB

PDDR-D-TB

PDDR-D-TB

SMD-D

SMD-D

SMD-D

PDN-D-TB SUPPLY

PDDR-D-TB RET/EXH

PDDR-D-TB RET/EXH

PDDR-D-TB RET/EXH

ACCESSORIES REQUIRED SYMBOL FOR SHOP DWGS SUBMITTAL USE

1,2,3,4

1,2,3,4

1,2,3,4

1,2,3,4

1,2,3,4

1,2,3,4

1,2,3,4

1,2,3,4

1,2,3,4

1,2,3,4

1,2,3,5

1,2,3,5

1,2,3,5

ONLY

Α

В

С

D

D1

D3

М

Ν

Q