

**KEY NOTES**

- 1 REFURBISH EXISTING TRANE WATER COOLED RECIPROCATING CHILLER MODEL CGWBD 154 EAM, COMPRESSOR MODEL 2E-SJ-61N. CHILLER HAS TWO COMPRESSORS. SEE SPECIFICATION FOR REFURBISH DETAILS.
- 2 REFURBISH EXISTING SELLER BOILER MODEL C-100W. SEE SPECIFICATION FOR REFURBISH DETAILS.
- 3 EXISTING CONDENSER WATER PIPING TO BE FLUSHED AND CLEANED PRIOR TO RECONNECTING PUMPS AND COOLING TOWERS. DRAIN AND REFILL SYSTEM AFTER CLEANING.
- 4 EXISTING CHILLED WATER PIPING TO BE FLUSHED AND CLEANED PRIOR TO RECONNECTING NEW PIPING AND PUMP AND REFURBISH CHILLERS. DRAIN AND REFILL THE SYSTEM AFTER CLEANING.
- 5 EXISTING HEATING HOT WATER PIPING TO BE FLUSHED AND CLEANED PRIOR TO RECONNECTING NEW PIPING AD PUMP AND REFURBISH BOILER. DRAIN AND REFILL THE SYSTEM AFTER CLEANING.
- 6 INSTALL NEW VALVE IN EXISTING PIPING TO ISOLATE FLOW OF WATER IN NEW OR EXISTING PIPING SYSTEM FOR PHASES OF WORK.

- 7 REPLACE EXISTING WATER PUMP ( CONDENSER WATER , CHILLED WATER AND HEATING HOT WATER AS LISTED) WITH COMBINATION OF SHUTOFF/BALANCING VALVES (SUCTION AND DISCHARGE), CHECK VALVE, SUCTION DIFFUSER, AIR VENT AND PRESSURE GAUGES (SUCTION AND DISCHARGE OF PUMP). CAPACITY AS LISTED IN PUMP SCHEDULE. MODIFY THE EXISTING PIPING AS REQUIRED TO REPLACE PUMP. REFER TO PUMP PIPING DETAIL-1. REPLACE EXISTING PUMP VIBRATION ISOLATOR AND SUPPORT PAD WITH NEW. PROVIDE NEW STAINLESS STEEL DRAIN PAN AND DRAIN TO FLOOR DRAIN.
- 8 REPLACE EXISTING CHILLED WATER CHEMICAL POT FEEDER AND RELATED PIPING AND VALVES.
- 9 CLOSE OPENING AROUND THE EXISTING PIPING IN EXISTING FLOOR TO WATER PROOF THE FLOOR.
- 10 NEW POT FEEDER

- 11 REPLACE EXISTING HOT WATER CHEMICAL POT FEEDER AND RELATED PIPING AND VALVES.
- 12 REPLACE EXISTING CONDENSER WATER CHEMICAL TREATMENT SYSTEM TO MATCH EXISTING AND/OR REQUIREMENT OF SCHOOL BOARD MAINT. DEPARTMENT.
- 13 REPLACE EXISTING COOLING TOWER(S) STEEL SUPPORTS BEAM TO MATCH EXISTING AND SUITABLE FOR NEW COOLING TOWER(S). NEW STEEL SUPPORT BEAMS SHALL BE ALL GALVANIZED.
- 14 REPLACE EXISTING COOLING TOWER(S) AND RELATED PIPING, VALVES, DISCONNECT SWITCH, STARTER, MAKE-UP WATER, DRAINS ETC. TO COMPLETE REPLACEMENT OF COOLING TOWER(S). DISCONNECT AND RECONNECT ALL PIPING AND ELECTRIC POWER AS REQUIRED TO REPLACE THE TOWER(S).
- 15 REMOVE AND REPLACE ALL CONDENSER WATER PIPING ON ROOF AS REQUIRED TO REPLACE EXISTING TOWER AND SUIT TO NEW TOWER(S). PROVIDE NEW BALANCING VALVES.
- 16 PROVIDE NEW COMBINATION OF DISCONNECT AND STARTER FOR EACH COOLING TOWER MOTOR.

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PROJECT  
**CARTER G. WOODSON MIDDLE SCHOOL  
 RE-ROOFING & MECHANICAL REPAIRS**

DRAWN	KK
CHECKED	MK
DATE	4-21-97
SCALE	AS NOTED
JOB NO.	
SHEET	ME-5
OF 22 SHEETS	

