

BASIS OF DESIGN – HEAT PUMP SYSTEM FOR NEW COLLEGE CLASSROOMS USING INTEGRATED PROJECT DELIVERY

The design engineer shall check off the boxes from the list of company's standardized field observation checklists below that he will need to upload on to his tablet computer prior to heading out to the construction site to complete his final HVAC inspection and punchlist. These checklists will be touchscreen type. When the engineer returns to the office or he sends the completed checklists via the internet to the office, the completed checklists shall be automatically downloaded to the company's computer server and placed in the job folder's "Project Closeout" section of the folder. The completed checklists, along with associated digital photographs taken at the time of the field visit will automatically be electronically sent to the following individuals and departments.

TEAM CORRESPONDENCE DIRECTORY CHECKLIST (check the appropriate boxes)

- Owner College President Owner Representative IPD Lead Engineer
- Construction Manager General Contractor Design-Build Contractor
- Building Manager HVAC Subcontractor ATC Subcontractor
- Electrical Subcontractor Plumbing Subcontractor Acoustic Consultant
- Telecommunication Subcontractor Architect State Energy Department Soils Consultant
- Security Consultant ASHRAE Piping Subcontractor
- Sheet Metal Subcontractor 3rd-Party CxTAB Consultant 3rd-Party TAB Consultant
- Equipment Manufacturers Building Inspector Others: _____

HVAC CONTRACT SPECIFICATION CHECKLISTS (check the appropriate boxes)

- Division 1 Project Closeout Telecommunication Equipment Owner-Furnished Equipment
- Structural Electrical Plumbing Fire Protection HVAC Infection Control ATC
- GSHP Units Pumps Chillers Fans Air Handlers Terminal Units
- Piping System Sheet Metal System TAB Commissioning Others (insert list) _____

HVAC CONTRACT DRAWING INSTALLATION CHECKLIST (check the appropriate boxes)

- Telecommunication Equipment Owner-Furnished Equipment Structural Electrical Plumbing
- Fire Protection HVAC Infection Control ATC GSHP Units Pumps
- Chillers Fans Air Handlers Terminal Units Piping System Sheet Metal System
- TAB Commissioning Others (insert list) _____

HVAC STARTUP CHECKLISTS (check the appropriate boxes)

- Telecommunication Equipment Owner-Furnished Equipment Structural Electrical Plumbing
- Fire Protection HVAC Infection Control ATC GSHP Units Pumps
- Chillers Fans Air Handlers Terminal Units Piping System Sheet Metal System
- TAB Commissioning Others (insert list) _____

COMMISSIONING FPT (FUNCTIONAL PERFORMANCE TEST) (check the appropriate boxes)

- Telecommunication Owner-Furnished Equipment Structural Electrical Plumbing
- Fire Protection HVAC Infection Control ATC GSHP Units Pumps Chillers Fans
- Air Handlers Terminal Units Piping System Sheet Metal System TAB Commissioning
- Others (insert lists) _____