



Nueces County

Certificate of Substantial Completion

Project: **Calderon Building Mechanical Equipment Upgrades**
Contract No.: **IFB No. 2896-11**

Contract Date: **November 30, 2011**

TO: (Contractor name and Address)

**Malek, Inc.
2521 Antelope Dr.
Corpus Christi, Texas 78408**

Owner: Name and Address

**Nueces County
901 Leopard St.
Corpus Christi, Texas 78401**

SUBSTANTIAL COMPLETION DATE: November 5, 2012

Complete **Partial – List Areas Accepted** _____

Substantial Completion and warranty time periods affected are defined in the General Conditions of the Contract. All parties listed below have reviewed the work under this Contract and recommend issuance of the substantial completion. Nueces County concurs with acceptance of the A/E's certification, will assume full possession and responsibility for the project or designated area, less punch list items, on the above listed Date. All warranties will start the day of substantial completion, with the exception of those items on the punch list, which will start on the date of Final Acceptance. The responsibility of the Contractor for heat, light, other utilities and Builders' Risk Insurance required by the Contract ceases at Substantial Completion. Other required insurance remains the Contractor's responsibility until the Certificate of Final Acceptance is issued.

PUNCH LIST:

A list of items to be completed or corrected, prepared by the Architect/Engineer and Nueces County, checked and augmented as required by Nueces County is appended hereto. The failure to include any item on such list does not relieve the Contractor of the responsibility to complete all work in accordance with the Contract documents.

The Contractor shall complete or correct the work on the punch list appended hereto by 11-20-12. The punch list consists of 37 items. (punch list attached)

Malek Inc
Contractor

Ronnie Clark
Representative Signature

11-14-12
Date

Public Works
Architect/Engineer

[Signature]
Representative Signature

11-14-12
Date

NUECES COUNTY

Representative Signature

Date

Attachment:
Punch List



5656 S. Staples, Suite 360
Corpus Christi, TX 78411
361/852-2727 FX:361/852-2922
TX Firm Registration No. F-005318

DATE: November 5, 2012

Site Observation Report – Mechanical, Electrical and Plumbing-008

CLIENT: Nueces County

ATTN: Mario Garza

RE: Calderon Building
NRG Project #10171

Site Observation Date: November 5, 2012
Observed by: Sean Rodriguez, Mike Gibson, Joe Elliott

GENERAL

1. Mechanical Room 207 (AHU-5) Support all cables from structure above.

ELECTRICAL

1. Cover all open electrical boxes.
2. Mechanical Room 207 (AHU-5) Support light fixtures from structure above.
3. Open junction boxes and exposed wires in MC cable that used to feed the existing chiller were found behind the new chiller. This wiring was indicated to be removed back to panel on the construction documents. Verify the circuit is still connected and reuse. Provide quad receptacle at this junction box for new water treatment system and refrigerant sensor. Remove all unused wire back to junction box and cover all open junction boxes.
4. Provide new label for the new Chiller fused switch in MLC1. Currently labeled with marker.
5. Verify fuses have been replaced as indicated on plans. Circuits were in use during site visit making fused switches unavailable to be opened and checked.

PLUMBING

1. Provide copy of test report for backflow preventer to owner.

MECHANICAL

1. Paint all un-insulated pipes. Previously noted on SOR5 dated 9.10.12
2. Insulate all strainer bodies.
3. Smoke detectors are installed but not wired, non operational.
4. Insulate all piping to prevent condensation from forming and to protect from heat loss in the event of hot water piping.
5. Metal contact with copper on the chiller. Isolate contact as needed.
6. Plug all water strainers to prevent accidental discharge with bronze plugs or caps.
7. Vibration isolating missing on AHU 2 and 3. Previously noted on SOR 6 dated 9.20.12
8. Secure refrigerant relief piping on the roof.
9. Metal contact on copper water line to cooling tower.
10. Insulation jacket missing on chilled water line on the roof.

11. Condensate drain between the two units has a sag and needs additional support.
12. Clean green oxidation from copper drain line.
13. Secure insulation on AHU 5, tape is coming lose.
14. Clean trash from condensate drain, secure and support condensate drain.
15. Verify that all old equipment has been removed from the mezzanine.
16. Thermometers missing on chill water and condenser water piping in mechanical room.
17. Open j-box for controls was found on top of air handler No. 5.
18. Thermostats sensors missing or not located in the same location as the construction documents. Verify all sensors were installed and document on as-built drawings.
19. On RTU-1 and RTU-2 remove all of the tie down bolts as per manufactures installation instructions. Units were observed with only one corner of tie down bolts removed. Adjust spring isolators as required.
20. Provide Air Balance report for all AHUs.
21. Provide Hydronic Balancing report for chill water and condenser water systems.
22. Complete installation of refrigerant sensor and alarm.
23. Provide startup report for chiller and condenser.
24. Three way modulating control valves are too small for the application. Refer to specification 15950 paragraph 2.8.C for sizing requirements. Remove and replace all control valves with properly sized valves.
25. Submit O&M manuals
26. Submit As-Built documents
27. Submit city inspection certificates.
28. Submit training schedules and dates for equipment and controls.
29. Provide windstorm certification, WPI-8, for all roof mounted equipment.
30. Install Supply & Exhaust diffuser/grills in men's restroom.

End of Report