

**Design Review
WO-A-0062
FOHE Schematic Design Submittal
Drawings Dated September 2010**

| <u>Excel Worksheet</u> | | |
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Response Legend
A - Agree
D - Disagree
O - out of scope
AE - Agree with exception

| Comment # | Reviewer | Reference | Comment | Response Code | Response | Back-Check |
|----------------------------|----------|-----------------------|---|---------------|---|-----------------|
| ELECTRICAL COMMENTS | | | | | | |
| E1 | EN | General | No power plans are provided. Provide plans for location and quantity of all receptacles, as well as power to HVAC and plumbing equipment. | A | Power plans will be provided as part of final design | So Noted |
| E2 | EN | Design Criteria Memo. | Correct voltage to be 220/308V, 50 Hz, single phase. | A | Will correct to 220/380V | Done |
| E3 | EN | GE-1, GE-2 | Edit symbol list. Delete any symbols that are not used. | A | Symbols list will be finalized as part of final design | So Noted |
| E4 | EN | GE-1, GE-2 | Will fire alarm, security, and communications be part of this design? If so, no drawings are provided. | O | These have not been provided on other similar designs and are not expected to be required here. | So Noted |
| E5 | EN | GE-3 | General Electrical Note #1 - Fill in the referenced NEC edition (2008?). | A | NEC edition will be 2008 | So Noted |
| E6 | EN | GE-3 | General Electrical Note #13 - Should units be English or Metric? | A | Metric, will correct any discrepancies as part of final design | So Noted |
| E7 | EN | GE-3 | General Electrical Note #21 - Outdoor receptacles should be "In Use" weatherproof. | A | Will change | So Noted |
| E8 | EN | GE-3 | Lightning Protection Note #9 - Note is incomplete. | A | Note will be completed or deleted as part of final design | So Noted |
| E9 | EN | FEBE-1 | Complete General Notes. | A | Notes will be completed as part of final design | So Noted |
| E10 | EN | FEBE-1 | Complete Luminaire Schedule. Provide manufacturer/catalog number for CF1 and CF2. Complete description for those fixtures. Fixture types WP1 and WP2 found on drawings but not scheduled. | A | Schedule is still being developed and will be completed as part of final design | So Noted |
| E11 | EN | FEBE-1 | Identify the detail as Electrical Riser Diagram. Provide conduit and wire sizes for all conductors. Identify the transfer switch and generator receptacle as 220/308V, 1 ph, 3w. Provide a service disconnecting means (fused switch or circuit breaker) in front of the ATS and ground the service at that point. Feed the SPD directly from panel board PNLBD-1 (preferably this will be specified as being integral to the panel in lieu of externally mounted). PNLBD-1 should have feed through lugs to feed PNLBD-2. Provide AIC values for all equipment based on available utility fault current. | A | Design is still being developed and will be completed as part of final design | So Noted |
| E12 | EN | FEBE-1 | Locate and label all distribution equipment on floor plans. Maintain NEC required working clearances for all equipment. | A | Will be completed as part of final design | So Noted |
| E13 | EN | FEBE-1 | Provide a grounding detail. Bond the service neutral conductor at the service disconnect. Provide grounding electrode conductors to the water service, foundation rebar, and driven ground rods. | A | Grounding will be detailed as part of final design | So Noted |
| E14 | EN | Lighting Plans | The Architect has indicated the doors from rooms 14-112, 120, 203, 207, 215 are to swing out in the direction of egress. Recommend adding exit signs and emergency lights to these rooms. | A | Emergency lights and exit lights will be added as required as part of final design | So Noted |

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| ELECTRICAL COMMENTS | | | | | | |
| E15 | EN | Lighting Plans | Emergency lighting is required at the intermediate landings of the stairs (3 locations), in Vestibule 14-106, and at the three exit discharges on the 1st floor. | A | Emergency lights and exit lights will be added as required as part of final design | So Noted |
| E16 | EN | Lighting Plans | How will the normal exit discharge lighting be controlled? Recommend an exterior photocell. | A | Lighting design is still being developed and will be completed as part of final design | So Noted |
| E17 | EN | Lighting Plans | Provide 3-way switching of corridor lights on the 2nd floor. | A | Lighting design is still being developed and will be completed as part of final design | So Noted |
| E18 | EN | Lighting Plans | Recommend providing one emergency light in each toilet room. This is not required by Code, but is considered normal practice for multi-occupant restrooms. | A | Emergency lights and exit lights will be added as required as part of final design | So Noted |
| E19 | EN | Lighting Plans | Indicate that all emergency fixtures are to be circuited with an additional unswitched conductor for supervision of the normal lighting circuit. | D | All exit and emergency lights are powered from an unswitched leg of the same circuit that powers the lights within the room per code. | So Noted |

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| HVAC / PLUMBING | | | | | | |
| H/P 1 | JWH | Design Criteria Memo. | Correct Title Faculty not Facility | A | Will correct | Completed |
| H/P 2 | JWH | Design Criteria Memo. | No comments at this time | A | | |
| H/P 3 | JWH | Plans | Plans do not have sufficient information for review at this time. | AE | Drawings are not required for the preliminary design for HVAC | Completed |

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| ARCHITECTURAL | | | | | | |
| ARCH 1 | ABRAHAM | Design Criteria Memo. | Correct Title 'Faculty' not 'Facility' | AE | Will correct to say "Faculties" | So Noted |
| ARCH 2 | ABRAHAM | Design Criteria Memo. | Consider strategies to mitigate solar gain | A | Will investigate during the next phase of design | So Noted |
| ARCH 3 | ABRAHAM | Plans | Consider shading devices over window groupings on the South elevation. | A | Will incorporate as part of final design | So Noted |

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| ARCHITECTURAL | | | | | | |
| STRUCT 1 | Lanning | Design Criteria Memo. | No comments at this time. | | | |
| STRUCT 2 | Lanning | Plans | No comments at this time. | | | |