

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

<u>Excel Worksheet</u>		
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Electrical	Site Electrical Distribution	2
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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.			
E2	EN	Design Criteria Memo.	Correct voltage to be 220/308V, 50 Hz, single phase.			
E3	EN	GE-1, GE-2	Edit symbol list. Delete any symbols that are not used.			
E4	EN	GE-1, GE-2	Will fire alarm, security, and communications be part of this design? If so, no drawings are provided.			
E5	EN	GE-3	General Electrical Note #1 - Fill in the referenced NEC edition (2008?).			
E6	EN	GE-3	General Electrical Note #13 - Should units be English or Metric?			
E7	EN	GE-3	General Electrical Note #21 - Outdoor receptacles should be "In Use" weatherproof.			
E8	EN	GE-3	Lightning Protection Note #9 - Note is incomplete.			
E9	EN	FEBE-1	Complete General Notes.			
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.			
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.			
E12	EN	FEBE-1	Locate and label all distribution equipment on floor plans. Maintain NEC required working clearances for all equipment.			
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.			
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.			
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.			
E16	EN	Lighting Plans	How will the normal exit discharge lighting be controlled? Recommend an exterior photocell.			
E17	EN	Lighting Plans	Provide 3-way switching of corridor lights on the 2nd floor.			
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.			
E19	EN	Lighting Plans	Indicate that all emergency fixtures are to be circuited with an additional unstitched conductor for supervision of the normal lighting circuit.			

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HVAC / PLUMBING						
H/P 1	JWH	Design Criteria Memo.	Correct Title Faculty not Facility			
H/P 2	JWH	Design Criteria Memo.	No comments at this time			
H/P 3	JWH	Plans	Plans do not have sufficient information for review at this time.			