

EXHIBITS
TO
DESIGN-BUILD AGREEMENT
BETWEEN
PUBLIC BUILDING COMMISSION OF CHICAGO
AND
IHC CONSTRUCTION COMPANIES, LLC
2013 SCHOOL INVESTMENT PROGRAM
PROJECT NUMBER 01
CONTRACT NUMBER PS1963
PUBLIC BUILDING COMMISSION OF CHICAGO



Mayor Rahm Emanuel
Chairman

Erin Lavin Cabonargi
Executive Director

Public Building Commission
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JULY 2013

EXHIBIT 1 - DESIGN BUILDER DESIGN SERVICES

1. Complete the design for the Project and solicit Commission and User Agency reviews and approvals. Complete analysis of all Project requirements, including verification of the Scope and Performance Criteria, concept design, regulatory requirements, the conditions of the site and the survey. Consult with the Commission and Using Agency to establish the final design.
2. Provide design documents for written approval at the completion of Design Development, and Construction Documents as identified in Book 1, Article 3.
3. Provide all Coordination, Permit and Trade and Construction packages fourteen (14) days prior to issuance for Commission and User Agency review.
4. Prepare and professionally seal documents that will be issued by for regulatory reviews, approvals and permits. Conduct reviews and submit for review/permits with required regulatory agencies, including, but not limited to, Department of Buildings, Bureau of Fire Prevention, Chicago Department of Transportation, Mayor's Office for People with Disabilities, Office of Emergency Management and Communications, and Illinois Environmental Protection Agency. Conduct and prepare a code analysis package and/or Code Matrix, including, but not limited to, the following components:
 - a. Occupancy classification.
 - b. Construction type.
 - c. Occupant load by area and floor.
 - d. Travel distances.
 - e. Accessibility.
 - f. Exit types, units and widths.
 - g. Plumbing fixture counts.
 - h. Loading berths and parking requirements.
 - i. Fire resistance requirements.
5. Facilitate a Lessons Learned walk-thru of recently constructed projects as necessary with the Commission and User Agency. Document and issue for Commission and User Agency Approval a record of improvements and variations to be incorporated into design.
6. Coordination and support in the form of information, including but not limited to narratives, specifications, and drawings concerning the design, installation and operation of Building Automation Systems (BAS) to the Commission's independent BAS Commissioning Authority. (IF APPLICABLE)
7. Facilitate and document a Sustainable Design Plan for Commission and User Agency approval and provide follow up sessions as directed by the Commission Representative. The purpose of the Plan and meetings are to develop the appropriate design strategies and confirm that the Project's target LEED rating of silver is achievable for all project phases, and make alternative plans as required. Plan shall include LEED Checklist and narratives, including all LEED detail. (IF APPLICABLE)
8. Provide an energy simulation model using the DOE II Modeling Software. (IF APPLICABLE)
9. Preparation of Proposed Public Right of Way Amendment Plan and other documents necessary to illustrate any required amendments to the public right of way. (IF APPLICABLE)

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10. Preparation of CDOT coordination drawings to the extent required by the Commission and CDOT to coordinate site work with planned improvements by the City of Chicago and CDOT. (IF APPLICABLE)
11. As required, prepare Request for Clarification submittals for the Commission or User Agency questions.
12. Preparation of storm water analysis and management proposal. (IF APPLICABLE)
13. Issuance of a zoning analysis package (if required).
14. Provide a utility coordination and public infrastructure plan. Administer a design phase and construction phase utility coordination meeting including but not limited to the following participants. (IF APPLICABLE)
 - a. Using Agency
 - b. Public Building Commission
 - c. Com Ed
 - d. Peoples Gas
 - e. AT&T
 - f. Comcast
 - g. Office of Emergency Management and Communications
 - h. Department of Water Management
 - i. Bureau of Electricity
15. Develop a keyed furniture, fixture and equipment plan and schedule for review and approval. The plan must locate devices requiring any power, data, communication, low voltage wiring, security and life safety equipment for Commission and User Agency review and approval. The plan will also indicate any equipment requiring water supply, drainage, condensate lines and vents for each device or piece of equipment. (IF APPLICABLE)
16. Develop a hardware and device location plan for Commission and User Agency review and approval. (IF APPLICABLE)
17. Develop a signage plan and specifications for Commission and User Agency review and approval. (IF APPLICABLE)
18. Certification of Compliance with Commission's Design Checklists submitted as part of the Book 3, Project Requirements of the Scope and Performance Criteria. (IF APPLICABLE)
19. Prepare and Submit for use by the Commission an Inspection and Testing Plan ten (10) days prior to any site construction activities. The plan must be in spreadsheet format, following the specification section numbering system. Each inspection, test and required certificate in the project Specifications shall be identified by specification section number. The Authorized Commission Representative upon request can provide a sample Inspection and Testing Plan for use. The Authorized Commission Representative will identify the testing firm(s) that will be used on the Project. The Inspection and Testing Plan must provide for:
 - a. Verification of responsibilities for providing inspections, tests and certificates
 - b. Scope of services for the testing and inspection services RFQ.

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- c. A scorecard to monitor the completion of required inspections and tests, and the submittal of required certificates.
20. In addition to the Coordination set forth below, the Design Builder shall provide coordination services set forth in Book 2A, Standard Terms and Conditions Procedures Manual for Design Build Contracts. Architect Engineer shall issue MEP coordination documentation to the Commission for review. Architect Engineer shall coordinate and resolve:
- a. Space requirements between trades and/or disciplines.
 - b. Space requirements and access for maintenance and replacement all MEP equipment.
 - c. Incompatibility between items provided under different disciplines (such as difference in voltage between equipment specified under Division 15 and electrical power provided under Division 16).
 - d. Inconsistencies between drawings and specifications (between disciplines and within each discipline).
 - e. As required to manage discipline coordination, prepare drawings or models to manage discipline coordination, resolve conflicts, and present the findings of coordination process to the PBC's design review team.
 - i. Above ceilings in corridors to confirm that service, fixtures, and other devices can fit between the designed ceiling height and the bottom of any structural members or other obstructions. The horizontal spacing of these items will also be reviewed to confirm that desired locations of lighting fixtures and other devices can be achieved.
 - ii. Slabs where services would logically be installed within the slab on grade or on deck. The Architect will confirm that these services can fit within the slab cross section without compromising the structural integrity of the slab. Any limitations on embedded services will be noted on the construction documents.
 - iii. Areas and/or rooms where a significant number of services converge. This includes mechanical rooms, MDF rooms, IDF rooms, electrical closets, fire pump rooms, and any other areas or rooms where the coordination of individual or multiple services are required with multiple disciplines. Where a significant number of services penetrate a wall, floor, ceiling, or roof in close proximity, the Architect will design and detail an appropriate chase with respect to structural elements, code issues, and proper installation of the services.
 - iv. Within mechanical, equipment, and other specialty rooms to confirm that the required equipment, panels, racks, fixtures, ventilation, and other equipment, along with the services entering these rooms will fit within the designed space and layout. Checks will be made for door swings, as well as, equipment accessibility into and within the room.
 - v. Locations on the site or under the building where major existing or new utilities come in close proximity to each other and/or other new or existing structures. This would include locations where these services enter the building or penetrate the foundations.

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21. Prepare documents that confirm that the appropriate power, communication, and other low voltage services are shown running to and from each required device/fixture and back to the appropriate originating or receiving location are included in the design. This coordination may be represented by a composite device/service schedule that cross references the appropriate interface points.

22. Architect Engineer shall provide no less than 12 hours per week solely dedicated to field observation of the construction in order to monitor the progress and conformance of the permanent features of the work to the requirements of the Contract Documents and submit periodic reports documenting their findings. This time is in addition to time dedicated to management, reviewing submittals, and attending project meetings. The Design Builder retains primary responsibility for ensuring the quality of construction. The Architect Engineer's on-site representative shall not be removed or replaced before final completion of the Project without the prior written approval of the Authorized Commission Representative. The Architect Engineer's on-site representative will be removed immediately upon written request of the Authorized Commission Representative.

23. Provide an expert in roofing on the Project Site throughout the construction/installation of the roof for the Project. (IF APPLICABLE)

24. Architect Engineer to conduct a comprehensive final inspection of the Project with the Authorized Commission Representative and User Agency to verify that the materials furnished and the work performed are substantially compliant with the contract documents.
 - a. The Design Builder is responsible for facilitating a walkthrough on site with the Authorized Commission Representative, Commissioning Agent and User Agency to review punch list items identified in the Design Builder's initial punch list. The Design Builder will consolidate and prepare punch lists indicating the items of work remaining to be accomplished before a Certificate of Final Acceptance will be issued. Prepare certificates of preliminary and final completion in consultation with the Commission and the User Agency.

25. Submittal, Record Document and Close requirements set forth in Book 2A, Standards Terms and Conditions Procedures Manual for Design Build Projects.

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EXHIBIT 2 – SCOPE AND PERFORMANCE CRITERIA

Design Builder acknowledges receipt of the initial Scope and Performance Criteria dated May 16, 2013, Update 1 to the Scope and Performance Criteria dated May 24, 2013, Update 2 to the Scope and Performance Criteria dated May 29, 2013, and Update 3 to the Scope and Performance Criteria dated June 4, 2013 for all schools in Project 1. These documents and the Construction Drawings and Specifications listed herein, including the noted exceptions/clarifications shown on Exhibit 3 form the basis for the Scope of Work for Project 1.

SCOPE AND PERFORMANCE CRITERIA

School	Title	Number	Revision Date	Author
<i>Design Builder acknowledges receipt of the June 3, 2013 School Investment Program Scope and Performance Criteria for all schools in Project 1. This document and the Construction Drawings and Specifications listed herein, including the noted exceptions/clarifications shown on Exhibit 3 form the basis for the Scope of Work for Project 1.</i>				
Brennemann Elementary	Title Sheet	-	7/1/2013	Onyx Architectural Services
	Drawing Index	A-01	7/1/2013	Onyx Architectural Services
	Floor Plan	A-1	7/1/2013	Onyx Architectural Services
	Enlarged Floor Plans Elevations	A-2	7/1/2013	Onyx Architectural Services
	Enlarged Floor Plans Elevations	A-3	7/1/2013	Onyx Architectural Services
	Ext. & Int. Elevations	A-4	7/1/2013	Onyx Architectural Services
	Roof Plan	A-5	7/1/2013	Onyx Architectural Services
	First Floor and Annex Plan/Mechanical	M-1	6/26/2013	RJ Olmen/Olabode M. Beckley, P.E.
	First Floor Electrical Plan	E-100	6/17/2013	Candor Electric/Ron Simczak, P.E.
	Plumbing Plan	P-101	6/28/2013	Caldwell Plumbing/W-T Mechanical
	Enlarged Plumbing Plans	P-102	6/28/2013	Caldwell Plumbing/W-T Mechanical
	Environmental Scope of Work and Specifications	Pages 1-57	6/24/2013	TEM, Incorporated
Brentano Elementary	Title Sheet	G-100	6/27/2013	Legat Architects
	Lower Level Plan/First Floor Plan	A-100	6/27/2013	Legat Architects
	Second Floor Plan/Third Floor Plan	A-200	6/27/2013	Legat Architects
	Roof Plan	A-300	6/27/2013	Legat Architects
	Lower Level Plan/First Floor Plan	M.100	6/24/2013	RJ Olmen Company
	Second Floor Plan/Third Floor Plan	M.200	6/24/2013	RJ Olmen Company
	Roof Plan	M.300	6/24/2013	RJ Olmen Company
	Lower Level Plan/First Floor Plan	E1-1	6/17/2013	Candor Electric/Ron Simczak, P.E.
	Second Floor Plan/Third Floor Plan	E1-2	6/17/2013	Candor Electric/Ron Simczak, P.E.
	Miscellaneous Details	E4-1	6/17/2013	Candor Electric/Ron Simczak, P.E.
	Plumbing Sheet Index/Abbreviations& Symbols List	P00	6/24/2013	CF Bruckner & Son Plumbing
	Plumbing Plans Basement North	P1	6/24/2013	CF Bruckner & Son Plumbing
	Plumbing Plans Basement South	P2	6/24/2013	CF Bruckner & Son Plumbing
	Plumbing Schedules and Details	P3	6/24/2013	CF Bruckner & Son Plumbing
	Environmental Scope of Work and Specifications	Pages 1-83	6/24/2013	TEM, Incorporated
Chappell Elementary	Title Sheet	G100	6/24/2013	Brook Architecture
	Drawing Index/General Notes & Symbols	G-200	6/24/2013	Brook Architecture
	First Floor Plan/Original Building	A-110	6/24/2013	Brook Architecture
	First Floor Plan/Annex Building/Gym Building	A-111	6/24/2013	Brook Architecture
	Second Floor Plan/Original Building	A-120	6/24/2013	Brook Architecture
	Second Floor Plan/Annex Building/Gym Building	A-121	6/24/2013	Brook Architecture
	Roof Plan/Original Building	A-130	6/24/2013	Brook Architecture
	Roof Plan/Annex Building/Gym Building	A-131	6/24/2013	Brook Architecture
	Elevations /Annex Building 1	A-201	6/24/2013	Brook Architecture
	Details	A-301	6/24/2013	Brook Architecture
	General Notes	S-000	6/24/2013	Rubinos & Mesia Engineers
	Structural Details	S-001	6/24/2013	Rubinos & Mesia Engineers
	Second Floor Plan/Mechanical	M-1	6/24/2013	RJ Olmen Company
	Split System Refrigerant Piping Diagram	M-2	6/24/2013	RJ Olmen Company
	First Floor Electrical Plan	E1-1	6/17/2013	Candor Electric/Ron Simczak, P.E.
	Second Floor Electrical Plan	E1-2	6/17/2013	Candor Electric/Ron Simczak, P.E.
	Lower Level Electrical Plan	E1-LL	6/17/2013	Candor Electric/Ron Simczak, P.E.
	Miscellaneous Details	E4	6/17/2013	Candor Electric/Ron Simczak, P.E.
	Plumbing Plan	P-101	6/24/2013	DeFranco Plumbing/W-T Engineering
	Plumbing Plan	P-102	6/24/2013	DeFranco Plumbing/W-T Engineering