### **ADVERTISEMENT FOR BIDS**

**Project No:** 

T0510-00 – Roof Replacement Buildings #5 & 7

Location:

NJDOT Headquarters, Fernwood Complex, 1035 Parkway Avenue, Trenton, NJ, Mercer

County

A MANDATORY PRE-BID MEETING IS SCHEDULED FOR 11:30 A.M., DECEMBER 17, 2012. LOCATION: MEET AT NJDOT MAIN OFFICE BUILDING LOBBY, 1035 PARKWAY AVENUE, TRENTON, NJ, MERCER COUNTY. CONTACT PERSON: PASQUALE V. PAPERO (609) 633-3745. ONLY BIDS SUBMITTED BY CONTRACTORS WHO ATTEND THIS MEETING WILL BE ACCEPTED.

Sealed proposals must be received and time-stamped in the Plan Room, Division of Property Management & Construction, 33 West State Street, 9<sup>th</sup> Floor, (PO Box 034)Trenton, NJ 08625 until 2:00 p.m. on January 3, 2013 for:

Single Bid (lump sum all trades)
General Construction (C008) or
General Construction/Alterations & Additions (C009) or
Roofing –Tile/Slate/Shingles (C072)
\$405,007.

IN ACCORDANCE WITH N.J.S.A. 52:32-2, THIS PROJECT SHALL BE BID AS A SINGLE BID (LUMP SUM ALL TRADES). BIDDER MUST BE CLASSIFIED THEMSELVES OR NAME THEIR CLASSIFIED SUBCONTRACTOR(S) FOR THE FOLLOWING TRADE(S):

Roofing – Tile/Slate/Shingles (C072)

FAILURE TO LIST CLASSIFIED SUBCONTRACTORS WILL DEEM THE BID NON-RESPONSIVE.

CLASSIFIED DPMC CONTRACTORS/SUBCONTRACTORS MAY BE FOUND AT DPMC'S WEBSITE LISTED BELOW:

### http://www.state.nj.us/treasury/dpmc/contract\_search.shtml

Bid Documents may be examined at the above address or obtained for a document fee based on the individual trade estimate shown above, as follows: Trade Estimate up to \$100,000 – No Fee, in excess of \$100,000 - \$65.00. An additional \$10.00 fee is required for mailing of bid documents. All fees are non-refundable and must be received by the Division before documents will be released. A company check payable to the "Treasurer, State of New Jersey" is required. Contact **Janet Goleniecki at (609)** 777-1796 for further information. Mailing address is as follows: Regular Mail (DPMC, P.O. Box 034, Trenton, NJ 08625) or Overnight Mail (DPMC, 33 West State St, 9<sup>th</sup> Fl, Trenton, NJ 08608).

Bidders must be classified by the Division under N.J.S.A. 52:35 and must submit bid security as provided in Supplementary Instructions to Bidders and General Conditions, Revised March 18, 2011. No bidder may withdraw his bid for 60 calendar days after the opening. The State may reject any and all bids.

Bidders are required to comply with the requirements of P.L. 1975, c. 127, N.J. Law Against Discrimination.

RICHARD M. FERRARA, ASSISTANT DEPUTY DIRECTOR CONTRACTS & PROCUREMENT DIVISION OF PROPERTY MANAGEMENT & CONSTRUCTION STATE OF NEW JERSEY DEPARTMENT OF THE TREASURY P. O. BOX 034 TRENTON, NJ 08625-0034

C: Jenise Henson

STATE OF NEW JERSEY
DEPARTMENT OF TREASURY
DIVISION OF PROPERTY MANAGEMENT AND CONSTRUCTION
OFFICE OF DESIGN & CONSTRUCTION
PO BOX 034, TRENTON, NJ 08625-0034

PROJECT # T0510-00

Roof Replacement Buildings #5 & 7

NJDOT Headquarters, Fernwood Complex, 1035 Parkway Avenue

Trenton, Mercer County

A/E:

Ronald A. Sebring Associates, LLC

DATE:

11/27/12

BULLETIN "A" — B

Bidder must acknowledge receipt of this Bulletin on bid form in the space provided therefor.

This Bulletin is issued for the purpose of amending certain requirements of the original Contract Documents, as noted hereinafter, and is hereby made part of and incorporated in full force as part of the Contract Documents. Unless specifically noted or specified hereinafter, all work shall comply with the applicable provisions of the Contract Documents.

- 1. Project Specification: OMIT Article 6.1 of the Instructions to Bidders and General: Conditions: A "Field Office" shall not be required. Job meetings shall be held inside the building.
- 2. Project Specification: OMIT Article 5.5 of the Instructions to Bidders and General Conditions: A "Project Sign" shall not be required.
- 3. DPMC shall give to the apparent low bidder, DCA/UCC permit applications and required subcode technical sections to be signed, sealed and returned. The contractor must complete all forms and return same to the DPMC Procurement Group within ten (10) calendar days from date of receipt. A "Notice to Proceed" (NTP) letter shall be issued upon execution of the contract by the State.
- 4. CONSTRUCTION PROGRESS SCHEDULE

Article 9, Construction Progress, of the General Conditions, Amended January 1995, is deleted in its entirety and replaced with the following:

- 9.1 Construction Progress Schedule
- 9.1.1 This project shall be completed within the specified number of calendar days from date of execution of the Notice to Proceed.
- 9.1.2 The contractor shall be responsible for preparing and furnishing to the Director through the architect/engineer, before the first contract requisition date or other date specified by the State, a progress schedule that incorporates all of the work included in the project. The schedule shall be in the form of an arrow network diagram, bar chart or other recognized graphic progress schedule format, in sufficient detail to satisfy the architect/engineer and the Director. This submission shall be no later than thirty 30 calendar days after the award of the contract.

- 9.1.3 The progress schedule, based upon the contractor's logic and time estimates, shall indicate in suitable detail for display, all significant features of the work, including the placing of orders and anticipated delivery dates for critical items, submissions and approvals of shop drawings, all work activities to be performed, the beginning and time duration thereof, and the dates of substantial and final completion of the work.
- 9.1.4 Immediately upon such approval, the contractor shall prepare and distribute ten copies of the progress schedule to the Director and two copies to the architect/engineer.
- 9.1.5 The contractor shall furnish sufficient labor and construction plant and equipment to ensure the prosecution of the work in accordance with the project schedule. If the latest completion time for any significant task does not come within the time allowed by the project schedule, the sequence of tasks and/or the time for performance of tasks shall be revised by the contractor through concurrent operations, additional manpower, additional shifts, overtime, etc. until it is assured that the contract completion date will be met. No additional charges to the State will be allowed the contractor for overtime, additional manpower, equipment, additional shifts, etc. (except as may be provided elsewhere in the contract), if such expediting procedures or measures are necessary to meet the agreed completion date.
- 9.1.6 Each contractor agrees that it will make no claim for, and have no right to, additional payment or extension of time for completion of the work, or any other concession because of any misinterpretation or misunderstanding on the contractor's part of the project schedule, the contractor's failure to attend the prebid conference, or because of any failure on the contractor's part to become fully acquainted with all conditions relating to the project schedule and the manner in which it will be used on the project, or because of any other contractor's failure to properly participate in the development of a schedule or to perform the contract in accordance with the schedule.
- 9.1.7 At each biweekly project meeting, the contractor shall provide an updated project schedule that includes all activities; including any activities added for change order work approved to date. The updated progress schedule shall include the progress achieved for each activity that was scheduled including the actual dates the work was started and completed. The contractor agrees that this information shall constitute the official historical record of project progress.
- 9.1.8 At each biweekly project meeting the contractor shall also provide a two week "look ahead" schedule/work plan. This schedule/work plan shall focus on the activities to be completed in the next two week period. This schedule/work plan shall be in greater detail that the overall project schedule. This schedule/work plan shall include, but not be limited to, the contractor's activities that impact the operations and occupants of the State building or facility.
- 9.1.9 The contractor shall include a copy of the most recent updated project schedule with each progress payment request. Failure to include an updated project schedule with each progress payment request shall be cause for rejection of the progress payment request.

### End Of Bulletin A



CHRIS CHRISTIE

Governor

KIM GUADAGNO Lt. Governor

## State of New Jersey

DEPARTMENT OF TREASURY
DIVISION OF PROPERTY MANAGEMENT & CONSTRUCTION
TRENTON NJ 08625-0034

ANDREW P. SIDAMON-ERISTOFF STATE TREASURER

STEVEN SUTKIN DIRECTOR

### December 20, 2012

**SUBJECT:** 

Bulletin "B" dated December 20, 2012

RE:

Project #T0510-00

Roof Replacement Buildings # 5, 7

NJ DOT Headquarters, Fernwood Complex, 1035 Parkway Ave.

Mercer County, Trenton NI

### Gentlemen:

We are forwarding a copy of the above referenced bulletin. Please acknowledge receipt by returning this form to the address listed below. Fax copy will also be acceptable.

Division of Property Management & Construction **Attention:** Richard Ferrara

Contracts & Procurement

P. O. Box-034

Trenton, New Jersey 08625-0034

FAX #: 609-777-1970

Very truly yours,

Richard Ferrara, Assistant Deputy Director

Contracts & Procurement

Date Received		
Firm Name		
Address		
Signature	MANAGEMENT OF STATE O	
Title		
Attachment (s)		
ODC-513		

STATE OF NEW JERSEY
DEPARTMENT OF TREASURY
DIVISION OF PROPERTY MANAGEMENT AND CONSTRUCTION
OFFICE OF DESIGN & CONSTRUCTION
PO BOX 034, TRENTON, NJ 08625-0034

PROJECT # T0510-00

Roof Replacement Buildings #5, 7

NJDOT Headquarters, Fernwood Complex, 1035 Parkway Avenue

Trenton, Mercer County

A/E:

Ronald A. Sebring Associates, LLC

DATE:

12/20/12

### **BULLETIN "B"**

Bidder must acknowledge receipt of this Bulletin on bid form in the space provided therefor.

This Bulletin is issued for the purpose of amending certain requirements of the original Contract Documents, as noted hereinafter, and is hereby made part of and incorporated in full force as part of the Contract Documents. Unless specifically noted or specified hereinafter, all work shall comply with the applicable provisions of the Contract Documents.

- 1. The Sign-in Sheet and Minutes of the 12/17/12 Mandatory Pre-Bid Meeting are attached.
- 2. The construction duration for this project has been increased to sixty (60) calendar days. Therefore the project shall be fully completed and ready for occupancy within sixty (60) calendar days of the issuance of a Notice To Proceed by the State.
- 3. Contractor proposed Substitutions must be submitted within 3 (not 7) calendar days of the Notice to Proceed. Change Specification Article 01 61 00:1.3(A) to read: "Contractor's proposed substitutions shall be made within three (3) calendar days from the Notice to Proceed. After that time has expired no substitutions will be considered by the State. Substitution submittals that are incomplete will be rejected."
- 4. The Contractor will be responsible to protect DOT equipment from potential dust and debris that may drop from the roof work above. Protection may be accomplished by placement of polyethylene sheets laid over the equipment. Erection of framework for dust barriers or suspension of dust screens is not required.
- 5. Work hours for this Project are weekdays 7:00am to 3:30pm. Extended hours or weekend work must be requested in advance and will only be granted at the discretion of the DOT. No work will be performed on State Holidays. Bids shall be based on regular work hours on weekdays only.

6. The Contractor shall comply with manufacturer's instructions with respect to ambient temperature with respect to painting work. Pre-priming / painting of the exposed side of new fascia and rake trim will be acceptable provided that the primer and finish used meets or exceeds the specification requirements.

### End of Bulletin "B"

Attachments:

• Pre-Bid Meeting Minutes and Sign-in Sheet.

## Ronald A. Sebring Associates, LLC

Architecture Planning Design



Ronald A. Sebring, RA, NCARB Architect NJ, PA, FL, CT Professional Planner NJ David A. Clark, RA Architect NJ

> Janice K. Easterbrook Secretary/Treasurer

# MANDATORY PRE-BID MEETING MINUTES

ROOF REPLACEMENT BUILDING Nos. 5 AND 7 NJDOT HEADQUARTERS, FERNWOOD COMPLEX 1035 PARKWAY AVENUE TRENTON MERCER COUNTY PROJECT No. T0510-00

Meeting Date: December 17, 2012

Time: 11:30am

### Attendees:

Pat Papero, Project Design Director, DPMC
Walter Fernandez, Assistant Deputy Director Construction
Central and North Region, DPMC/OCS
Michael DeAngelo, Executive Assistant II, Department of Transportation
David A. Clark, R.A., Vice President/Architect, Ronald A. Sebring Associates, LLC
Bidding Contractors: Refer to attached sign-in sheet.

### **NEW BUSINESS**

- 1. Mr. Papero chaired this mandatory pre-bid meeting for the State of New Jersey, Department of the Treasury, Division of Property Management and Construction.
- 2. Mr. Papero explained that all bidders MUST sign the sign-in sheet for the meeting. Bids received by contractors whose names are not acknowledged in the sign-in sheet will not be accepted. Entries must be legible, including the fax and phone numbers. All attendees confirmed that they signed the sheet.
- 3. Mr. Papero distributed the meeting agenda to the all attendees.
- 4. Mr. Papero introduced the State Project Team members: himself, Mr. Fernandez, and Mr. DeAngelo to the bidding contractors. He introduced the Project Architect, David A. Clark, R.A. of Ronald A. Sebring Associates, LLC, to the Bidders.
- 5. Mr. Papero stated that, nothing said in this meeting, including the site walk-through, is officially part of this contract unless specifically issued in writing in a Bulletin.
- 6. Mr. Papero stated that Bulletin "A" was distributed with the bid documents and that there will be a Bulletin "B". Minutes of this meeting will be

distributed in Bulletin "B" along with other info that may be required, including answers to Bidders' Questions and a copy of this meeting's sign-in sheet. The Bulletin is anticipated to be issued on December 20<sup>th</sup>.

7. Mr. Papero stated that the bid for this Project is a Single Prime Lump Sum Bid. He explained that All bidders must be Classified with DPMC in one of the following trades:

General Construction (C008) or General Construction/Alterations & Additions (C009) or Roofing-Tile/Slate/Shingles (C072)

- ➤ If the Bidder is a General Contractor (C008 or C009), then they must name their Roofing Subcontractor (C072) ....see Bid Proposal Form
- 8. Mr. Papero reviewed the Bid Proposal Form and explained that the Bid Proposal Form must be fully filled out. Do not leave any blanks, especially Unit Prices. There are two Unit Prices included in the Bid for this Project. All bulletins must be acknowledged. If Bidder is Classified as C072 and will be performing the roofing work, they must list themselves on the Subcontractor line on Page 2 of the Bid Proposal.
- 9. The Bid Proposal and other documents list the duration of the Project as 45 Calendar days. This will be changed to 60 Calendar days by Bulletin "B".
- 10. Pre-bid Meetings for 3 separate roofing projects (involving a total of 8 buildings) at this site are being held today. Construction work on these 3 projects shall occur **concurrently**. Each project must be completed within 60 calendar days of the issuance of a Notice to Proceed. Therefore, if you intend to submit a bid for more than one of them, understand that, if you are the successful bidder for more than one, you must be able to work on them simultaneously and complete work on them within the specified 60 calendar days. A Superintendant shall be provided for each Project. The superintendent may be a working superintendent.
- 11. Mr. Papero stated that if Bidders have any questions regarding the Bid Bond or the Bid Proposal Form, they are to contact Janet Goleniecki or Richard Ferrara of the DPMC Contracts Procurement Group at 609 777-1796 or 609 633-3914
- 12. Mr. Papero stated that bids are due 1/3/13 by 2:00 pm at 33 West State Street, Trenton, unless modified by Bulletin. He stated that the mailing address and physical address for overnight service or hand delivery (presented below) are included in the agendas that were distributed to the bidders at this meeting:

i) If bid is mailed through the US Postal Service the address is:

Division of Property Management and Construction PO Box 034 Trenton, NJ 08625-0034

ii) If bid is delivered by delivery service (UPS, FedEx, etc.) the physical address is:

Division of Property Management and Construction 33 West State Street, 9<sup>th</sup> Floor Trenton, NJ 08608

- 13. Mr. Papero stated that the Contract Performance Period is 60 calendar days from the issuance of the Notice to Proceed (NTP). Liquidated Damages are 1/20<sup>th</sup> of 1% of the contract value with a minimum of \$250. per calendar day. There is a Bid Bond requirement of 50% of the bid amount.
- 14. Mr. Papero stated that there will be a Post Bid Review with the Apparent Low Bidder. Bidders shall be prepared for a meeting with the Project Architect and State Project Team on 1/4/13 at 11:30am at 20 West State Street, 3<sup>rd</sup> Floor Conference Room. Mr. Papero stated that he will contact the low bidder after the bids are received to confirm their attendance. The bidder shall bring cost breakdown information to the meeting. The person responsible for preparation of the Bid shall attend as well as the roofing subcontractor if there is one.
- 15. Additional Questions after today's meeting shall be submitted via E-mail in Word format (not .pdf) only to <u>pat.papero@treas.state.nj.us</u> no later than: 12/19/12 by Noon.
  - No verbal questions or phone calls to DPMC, client, or the Architect will be addressed.
  - Responses will be made to all via Bulletin(s)
  - Please request confirmation that the email was received.
- 16. The Project Architect, David A Clark, R.A. of Ronald A. Sebring Associates, LLC, summarized the scope of the Project:
  - a. The existing roof construction for Building 7 consists of nominal 2x6 tongue and groove sheathing with an original built-up roofing system. In the 1960s wood nailers were installed over the built-up roofing system containing asbestos felts, and corrugated metal panels that were fastened to the nailers. The scope of work at this building is for the removal of existing damaged and undamaged corrugated metal roofing panels, wood nailers, and built-up roofing to the structural

- deck. The A/E will inspect the structural deck and direct any defective decking to be replaced on a unit price basis. Two layers of underlayment will be installed along with ice and water barrier at the eaves, all covered with asphalt-fiberglass shingles. Associated flashings, rakes, and fascia boards are to be replaced as part of the project. Include in the Base Bid for the replacement of 3,400 square feet of wood decking in Building 7 to match the existing. Provide a unit price on a per square foot basis (add and deduct) for adjustment of the quantity of decking actually directed to be installed.
- b. The existing roof construction for Building 5 consists of asphalt shingles installed over underlayment installed on nominal 1x8 solid wood sheathing. The scope of work at this building is for the removal of existing roof shingles and underlayment to the structural deck. The A/E will inspect the structural deck and direct any defective sheathing to be replaced on a unit price basis. Two layers of underlayment will be installed along with ice and water barrier at the eaves, all covered with asphalt-fiberglass shingles. Associated flashings, rakes, and fascia boards are to be replaced as part of the project. Include in the Base Bid for the removal of existing sheathing and the installation (50) 4' x 8' sheets of 23/32" APA rated plywood sheathing on a unit price on a per sheet basis (add and deduct) for adjustment of the quantity of decking actually directed to be installed.
- c. The built-up roofing was tested and found to contain asbestos. This is not an asbestos abatement Project. The built-up roofing material shall be removed and disposed of properly in accordance with the Specifications. Air monitoring during removal operations shall be included.
- d. There is an area of the site that may be utilized by the Contractor for staging, storage, and the placement of a dumpster. This area is shown on the Site Key Plan drawing.
- 17. Mr. Clark stated that all submittals are required to be submitted within 7 calendar days of the Notice to Proceed.
- 18. Mr. Clark stated that any substitutions are required to be submitted within 3 calendar days of the Notice to Proceed or they will not be considered.
- 19. Working hours are 7:00am 3:30pm weekdays. Mr. DeAngelo stated that work may be performed on weekends only with prior approval from the DOT. Requests to perform work on weekends or to extend beyond the normal work hours must be received in advance. Mr. Fernandez stated that the bidders are not to assume additional hours or weekend work in their bid or schedule.

- 20. A bidder asked if there is a snowstorm, will the workspace be affected. Mr. DeAngelo replied that it will be plowed and there will be snow removal equipment activity. Mr. Fernandez explained that the Contractor will not be held responsible for delays due to DOT activity that interrupts the work, if that occurs.
- 21. Mr. Fernandez explained that the 3 roofing projects being bid today will be awarded simultaneously and will run concurrently, each with a short duration. Each Project will be treated as a separate Project, each with separate superintendants, meetings, schedules, and documentation.
- 22. Mr. Fernandez explained that the award meeting with the State, where the contract is signed shall be the Notice to Proceed (NTP), which is the commencement of the contract duration. The Award Meeting will occur approximately 1 ½ to 2 weeks after the Post-Bid Review Meeting (See Item No.14 above). If there is a roofing subcontractor, they shall attend the Award Meeting.
- 23. The Pre-construction meeting shall occur as soon as possible after the Award of the contract.
- 24. Completed UCC permit forms that will be provided to the Contractor in advance by DPMC, shall be brought to the Award Meeting. Permits are approved, however, the Contractor section is to be filled out and the forms signed. On-site work cannot commence until the permits are issued by DCA.
- 25. Mr. Fernandez stated that there will be bi-weekly progress meetings at which the Superintendant must attend. The Superintendant shall be the same from start to finish of the Project. If the Superintendant is unable to make decisions on behalf of the Contractor, then a representative having such authority shall attend. The frequency of the meetings may be changed to weekly based on the short duration of the Project. He explained that maintaining the Project schedule is very important and two-week look ahead schedules must be submitted by the Contractor at each meeting. The two-week look ahead schedules are important to the DOT and DPMC in that they identify the tasks and locations where they are to be performed on a day to day basis. The schedules are of particular importance for this Project to allow for coordination with other concurrent Projects at the Fernwood Complex as well as the DOT operations at the Facility. The schedule must be in bar chart format with "predecessors" and "successors" that show logic. The schedule requirements are set forth in Bulletin "A".
- 26. Mr. Fernandez stated that a revised Project Schedule is to be submitted with each Invoice or the Invoice will be returned.

- 27. Mr. Fernandez explained that if there is a request for time extension due to weather delays, the request must include documentation proving that the weather affecting the work deviates from the five-year norm. Any request for time extension must include a revised schedule.
- 28. Substantial Completion occurs when all work items are complete, DCA Final Inspection and approval is obtained, Operation and Maintenance Manuals are submitted, and warrantees are obtained and submitted. He stressed the importance of the contract duration and on-time completion.
- 29. Mr. Fernandez stated that all submittals, invoices, change order requests, and RFI are to be transmitted electronically via email. This speeds the review and approval process.
- 30. Mr. Papero clarified that all DCA Inspections are arranged through the DPMC project Manager. Mr. Fernandez explained that, if DCA Inspectors are not available for an inspection due to work at the shore areas, the A/E will perform the inspection so that there is no delay.
- 31. Mr. Papero stated that Plans, Specifications, and Bid Proposal Forms can be obtained by contacting Mr. Jim Zimmer at 609-292-5230.
- 32. Mr. DeAngelo stated that space will be made available within one of the buildings to store weather-sensitive materials in a heated environment.
- 33. Mr. Papero stated that the Contractor shall provide plastic protective covers over machinery and equipment within the buildings during roof replacement operations that allow dust or any debris to fall into the buildings.
- 34. A bidder asked if the warranty will be obtainable for Building 5. He stated that roofing manufacturers will not warrant their material installed over board sheathing that is greater than 6" nominal in width. Mr. Clark stated that he will review this issue.

Post Script: Roofing Manufacturer <u>recommends</u> that when new roof sheathing or decking is used as a substrate for shingles, it be less than 6" nominal in width in that the larger width boards experience greater shrinkage movement. This is not an issue as there will be no new material installed and the existing sheathing has been in place for many years.

35. A bidder asked if fees will be assessed to the Contractor if work is performed on weekends or after hours. Mr. Papero replied with a "no". Mr. Fernandez added that this is subject to the Contractor having performed work on all good weather days.

- 36. A Site walkthrough was conducted and access to the site and buildings was provided.
- 37. During the walkthrough it was observed that there are stored materials against the sides of the buildings in question that will hinder access for roof replacement work. Mr. DeAngelo confirmed that the DOT will relocate any materials that are readily movable. Some items, such as large signs, will need to remain.

# END OF PRE-BID MEETING MINUTES T0510-00

Prepared By: David A. Clark, R.A. Vice President Ronald A. Sebring Associates, LLC

405 Richmond Avenue

Point Pleasant Beach, NJ 08742

PROJECT #: T0510-00

PROJECT TITLE: Roof Replacement Buildings #5 & 7
NJDOT Fernwood Complex, Trenton

DATE: 12/17/12

TIME: 11:30am

NOTE: Your firm is responsible to consider in its bid all material and information presented at this Mandatory Pre-Bid Meeting.

COMPANY NAME	D P D D D G G G V TT A TT A TT A TT A TT A TT A T			minimation of the bid meeting.
(PRINT)	(PRINT)	SIGN-IN	YOUR TELEPHONE	XÔUR FAX#
NJ DEPT.OF TREASURY OCS DESIGN GROUP	PASQUALE V. PAPERO	The state of the s	(609) 633-3745 F-MAIL OFFECTIONS TO	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
NJ DEPT.OF TREASURY OCS CONSTRUCTION GROUP	PAMELA DURKALSKI		pat.papero@treas.state.nj.us	
NJ DEPT.OF TREASURY OCS CONSTRUCTION GROUP	WALTER FERNANDEZ	1		
NJDOT	MICHAEL DEANGELO			
RA SEBRING ASSOCIATES	DAVID CLARK	A MOONTAL		
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PROJECT #: T0510-00

Roof Replacement Buildings #5 & 7 NJDOT Fernwood Complex, Trenton PROJECT TITLE:

DATE: 12/17/12

TIME: 11:30am

NOTE: Your firm is responsible to consider in its bid all material and information presented at this Mandatory Pre-Bid Meeting.

COMMANACTOR			F. Commed at this mandatory restaid Meeting.	y rre-big meeting.	
(PRINT)	KEPRESENTATIVE (PRINT)	SIGN-IN	YOUR TELEPHONE	YOUR FAX #	
D, A. NoltInc	Bobby Mas	Olehogahunt	( \$554)	(552) 733-4963	
LANGER	Bill Stevenson	Sill Stocker	215-46425	215	
M. T.B. Cont	MydEndon	Kulley	737-684-3705	73774624	
ZXZ	Michael U. Patrik	Wachou Willed	Wobal Willed 732-442-2020	6608-644-45L	1
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PROJECT #: T0510-00

Roof Replacement Buildings #5 & 7 NJDOT Fernwood Complex, Trenton PROJECT TITLE:

DATE: 12/17/12

TIME: 11:30am

NOTE: Your firm is responsible to consider in its bid all material and information presented at this Mandatory Pre-Bid Meeting.

	YOUR FAX#	9161-165-699	732 886 7550	908-293-1133	3737779856 3787778456	732) 424948 732) 424-9764	118-439-342d	732-482-0010	Sis 583 3123	HB 531 3817
	YOUR TELEPHONE  #	0021-156-309	2 from 732-886-7500	708-248-1130	9737779856	132)4249488	718 439-3383	732-364-0640	215 533 3118 Er 104	718 331 4419
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PROJECT #: T0510-00

PROJECT TITLE:

DATE: 12/17/12

NOTE: Your firm is responsible to consider in its bid all material and information presented at this Mandatory Pre-Bid Meeting. TIME: 11:30am Roof Replacement Buildings #5 & 7 NJDOT Fernwood Complex, Trenton

marioarior y restalla meeting.	YOUR FAX #	908-436-3602 908-436-1661					
	YOUR TELEPHONE YOUR FAX #	908-436-3602					
	SIGN-IN	Harpe	2				
	(PRINT)	Andrew Terefeake					
COMPANY NAME		Ush General					

# MANDATORY PRE-BID CONFERENCE

PROJECT #

T0510-00

Roof Replacement Buildings #5 & 7

**LOCATION** 

NJDOT Headquarters, Fernwood Complex

1035 Parkway Avenue, Trenton, Mercer

County

**DATE** 

December 17, 2012

TIME

11:30 am

**CONTACT PERSON** 

Pasquale V. Papero

PHONE #

(609) 633-3745

MEETING LOCATION Meet at NJDOT Main Office Building Lobby

1035 Parkway Avenue Trenton, Mercer County

# MUST ATTEND TO HAVE VALID BID

NOTE:

It is each bidder's responsibility to determine the way to the location of the announced Pre-Bid meeting and to assure their timely arrival at the Conference. A maximum fifteenminute grace period 'may' be granted by the DPMC Project Manager, at his/her discretion, in case of extenuating circumstances determined prior to the scheduled start time. Bidders will be required to sign in at the beginning of the Conference. After the meeting has officially started, no other bidders will be permitted to sign-in. Failure to sign pre-bid sign in sheet will prohibit contractors bid from being accepted. Each bidder acknowledges and agrees they shall be responsible for all information discussed in pre-bid meeting.

## **SPECIFICATION**

ROOF REPLACEMENT BUILDING Nos. 5 AND 7 NJDOT HEADQUARTERS FERNWOOD COMPLEX 1035 PARKWAY AVENUE TRENTON MERCER COUNTY PROJECT No. T0510-00

# **STATE OF NEW JERSEY**Honorable Chris Christie, Governor

Honorable Kim Guadagno, Lieutenant Governor



## **DEPARTMENT OF THE TREASURY**

Andrew P. Sidamon-Eristoff, State Treasurer

## **DEPARTMENT OF TRANSPORTATION**

James S. Simpson, Commissioner

DIVISION OF PROPERTY MANAGEMENT AND CONSTRUCTION

Steven Sulkin, Director

RONALD A. SEBRING ASSOCIATES LLC, ARCHITECTURE-PLANNING-DESIGN 405 RICHMOND AVENUE, POINT PLEASANT BEACH, NJ 08742 (732) 701-9444 FAX 701-9919

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RONALD A. SEBRING, R.A., NCARB NEW JERSEY REGISTERED ARCHITECT C-6933

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### SECTION 01 11 00 SUMMARY

### PART 1 - GENERAL

### 1.1 RELATED DOCUMENTS

A. Drawings and General Provisions of the Contract, including General and Supplementary Conditions, and other Division 1 Specification Sections, apply to this Section.

### 1.2 SCOPE OF WORK

- A. The existing roof construction for Building 7 consists of nominal 2x6 tongue and groove sheathing with an original built-up roofing system. In the 1960s wood nailers were installed over the built-up roofing system containing asbestos felts, and corrugated metal panels that were fastened to the nailers. The scope of work at this building is for the removal of existing damaged and undamaged corrugated metal roofing panels, wood nailers, and built-up roofing to the structural deck. The A/E will inspect the structural deck and direct any defective decking to be replaced on a unit price basis. Two layers of underlayment will be installed along with ice and water barrier at the eaves, all covered with asphalt-fiberglass shingles. Associated flashings, rakes, and fascia boards are to be replaced as part of the project. Include in the Base Bid for the replacement of 3,400 square feet of wood decking in Building 7 to match the existing. Provide a unit price on a per square foot basis (add and deduct) for adjustment of the quantity of decking actually directed to be installed.
- B. The existing roof construction for Building 5 consists of asphalt shingles installed over underlayment installed on nominal 1x8 solid wood sheathing. The scope of at this building is for the removal of existing roof shingles and underlayment to the structural deck. The A/E will inspect the structural deck and direct any defective sheathing to be replaced on a unit price basis. Two layers of underlayment will be installed along with ice and water barrier at the eaves, all covered with asphalt-fiberglass shingles. Associated flashings, rakes, and fascia boards are to be replaced as part of the project. Include in the Base Bid for the removal of existing decking and the installation (50) 4' x 8' sheets of 23/32" APA rated plywood sheathing on a unit price on a per sheet basis (add and deduct) for adjustment of the quantity of decking actually directed to be installed.

### 1.3 HAZARDOUS AND REGULATED MATERIALS

A. It is not anticipated that hazardous or regulated material other than what is specified in the contract documents, will be encountered in the performance of the work. If suspect or hazardous material is encountered, suspend all work in the area and notify the Architect immediately.

PART 2 - MATERIALS (NOT USED)

PART 3 - EXECUTION (NOT USED)

### SECTION 01 22 00 UNIT PRICES

### PART 1 - GENERAL

### 1.1 RELATED DOCUMENTS

A. Drawings and General Provisions of the Contract, including General and Supplementary Conditions, and other Division 1 Specification Sections, apply to this Section.

### 1.2 SUMMARY

- A. This Section includes administrative and procedural requirements for Unit Prices.
- B. Related Sections Include the Following:
  - 1. General Conditions for procedures for submitting and handling Change Orders

### 1.3 DEFINITIONS

A. Unit Price: Price per unit of measure for materials and/or services added to or deducted from the Contract Sum by appropriate modification, if quantities of work required by the Contract Documents are increased or decreased.

### 1.4 PROCEDURES

- A. Measurement and Payment: Establishment of unit prices is for the addition of improvements not specifically indicated on the drawings or the elimination of proposed improvements. All additional improvements shall be within the general area of the limits of improvements depicted.
- B. The State reserves the right to reject the Contractor's measurement of work in place that involves the use of established unit prices and have this work measured by the Architect.
- C. List of Unit Prices: A list of Unit Price items is included at the end of this Section. Specification Sections contain requirements for materials described under each Unit Price.

### 1.5 UNIT PRICES

- A. Unit Price No.1: 2x6 Tongue and Groove Roof Decking: Remove existing nominal 2 x6 roof decking, where directed by the Architect, and replace with like material. Include in the Base Bid for the replacement of 3,400 square feet of wood decking for Building 7 to match existing. Provide a unit price on a square foot basis (add and deduct) for adjustment of the quantity of decking actually directed to be installed.
- B. Unit Price No.2: 4' x 8' Plywood Sheathing: Remove existing nominal 1x8 roof sheathing where directed by the Architect. Replace with 4' x 8'sheets of 23/32" plywood. Include in the Base Bid for the installation of 50 sheets of wood sheathing in Building 5. Provide a unit price on a per sheet basis (add and deduct) for adjustment of the quantity of sheathing actually directed to be installed.

### SECTION 01 30 00 ADMINISTRATIVE REQUIREMENTS

### PART 1 - GENERAL

### 1.1 RELATED DOCUMENTS

A. Drawings and General Provisions of the Contract, including General and Supplementary Conditions, and other Division 1 Specification Sections, apply to this Section.

### 1.2 PROJECT MEETINGS

- A. Construction Progress Meetings will be held at the Project site on a bi-weekly basis. Attendees shall include the Contractor and applicable subcontractor(s), DPMC/OCS Project Manager, Client Agency Representative, and the Architect.
- B. The Contractor shall provide a *two-week look-ahead* schedule at each bi-weekly Job Meeting. The *two-week look-ahead* shall indicate the work to be performed on each workday, in detail, for the forthcoming two weeks.
- C. The Contractor shall present up to date as-built drawings for review by the Architect at each Job Meeting.

### 1.3 CONFLICTS OR DISCREPANCIES AMONG CONTRACT DOCUMENTS

- A. In the event of conflicts or discrepancies among Contract Documents, interpretations will be based on the following priorities:
  - 1. The Agreement;
  - 2. Addenda, with those of later date having precedence over those of earlier date;
  - 3. Supplementary Conditions;
  - 4. The General Conditions of the Contract for Construction; and
  - 5. Drawings and Specifications
- B. In the case of any inconsistency between Drawings and Specifications, or within either document not clarified by addendum, the better quality or greater quantity of work shall be provided in accordance with the Architect's interpretation.

### 1.4 INTERPRETATION OF DRAWINGS AND SPECIFICATIONS

- A. The annotated drawings are intended to convey the scope of work and indicate the general requirements of work and shall not limit the repairs required.
- B. Examine the areas and conditions where work is to be performed and notify the Architect of conditions detrimental to proper and timely completion of the work. Do not proceed with work until detrimental conditions have been corrected.
- C. Dimensions on drawings are for design only. Do not scale drawings for dimensions.
- D. The Contractor is entirely responsible for field checking and verifying all measurements before commencement of work and is entirely responsible for the correctness of his measurements.
  - 1. Before ordering any material to doing any work, take or verify all measurements at the building as may be required for the proper fitting of work to the building or to other adjoining work.
  - 2. Satisfactorily correct, without charge, any work which does not fit.

### PART 2 – MATERIALS (NOT USED)

### PART 3 – EXECUTION (NOT USED)

### SECTION 01 32 16 CONSTRUCTION PHASING AND PROGRESS SCHEDULE

### PART 1 - GENERAL

### 1.1 RELATED DOCUMENTS

A. Drawings and General Provisions of the Contract, including General and Supplementary Conditions, and other Division 1 Specification Sections, apply to this Section.

### 1.2 CONTRACT COMPLETION

A. The work under this Contract shall be completed within forty-five (45) calendar days from the issuance of the Notice to Proceed.

### 1.3 PROJECT SCHEDULE

- A. The Contractor shall submit a Project Construction Schedule (no CPM) meeting the requirements of the General Conditions within seven (7) calendar days of the Notice to Proceed for review and approval.
- B. Provide, at each bi-weekly Project meeting, a written Project Schedule analysis.
- C. Provide, at each bi-weekly Project meeting, a written outline of the work completed within the past two weeks and a forecast of work projected within the next two week period.
- D. If the Project should fall behind schedule, provide a complete revised recovery schedule when requested by the Project Manager.

PART 2 - MATERIALS (NOT USED)

PART 3 - EXECUTION (NOT USED)

### SECTION 01 35 00 SPECIAL PROJECT PROCEDURES

### **PART 1-GENERAL**

### 1.1 RELATED DOCUMENTS

A. Drawings and General Provisions of the Contract, including General and Supplementary Conditions, and other Division 1 Specification Sections, apply to this Section.

### 1.2 CLEAN-UP

A. The Contractor is responsible for all clean-up, debris removal and disposal on a daily basis.

### 1.3 SITE PROTECTION

A. Store construction materials and equipment only in locations approved by the Department of Transportation.

### 1.4 SITE RESTORATION

A. At the completion of construction, restore all walkways, driveways, lawns, or plantings damaged by construction activity. The area of the site utilized by the Contractor for staging and storage must be restored to its pre-construction condition. Complete all such repairs to the satisfaction of the Architect, the DPMC Project Manager, and the Department of Transportation.

### 1.5 STAGING AND STORAGE

- A. Exterior Staging and Storage Area: The drawings indicate an area of the Site that may be utilized by the Contractor for placement of a temporary storage box, temporary toilet(s), and a dumpster. The Contractor is prohibited from utilizing any portion of the site other than that designated as the Staging Area. Full dumpsters shall be removed at the end of the work day.
- B. There are other roofing and construction projects under contract at the Fernwood Complex. Cooperate with other Contractors as not to interfere with the performance of each other's work.

### 1.6 PARKING

A. The Contractor's employees may park in the visitor's parking area or in the designated staging and storage area.

### 1.7 TEMPORARY SANITARY FACILITIES

A. Provision of toilet facilities for workers is the Contractor's responsibility. The Contractor is not permitted to utilize the toilet rooms within the building and other buildings within the DOT Headquarters Complex.

### 1.8 FIRE PROTECTION

- A. The Contractor at all times must maintain good housekeeping practices to reduce the risk of fire damage. All scrap materials, rubbish and trash must be removed daily from the site and the Contractor must not permit them to be scattered on adjacent areas.
- B. Suitable storage space must be provided outside the building area for storing flammable materials; no storage will be permitted in the buildings. Any excess flammable liquids being used inside the buildings must be kept in closed metal containers and removed from the building during unused periods.
- C. A fire extinguisher must be available at each location where cutting is being performed.

### **DIVISION 1 - GENERAL REQUIREMENTS**

- D. The Contractor must provide fire extinguishers in accordance with the recommendations of NFPA Bulletins Nos. 10 and 241. However, in all cases a minimum of one fire extinguisher must be available on the job site.
- E. Smoking is strictly prohibited within the Fernwood Complex.

### 1.9 AIR QUALITY DURING INTERIOR RENOVATION WORK

- A. Renovation work and/or new construction that results in the diffusion of dust, stone and other small particles, toxic gases or other harmful substances in quantities hazardous to health shall be safeguarded by means of local ventilation or other protective devices to ensure the safety of employees.
- B. Before selection and use of paints, adhesives, sealants, solvents, the employer shall check product labels and Material Safety Data Sheets or seek and obtain information from the manufacturers of those products on whether or not they contain volatile organic compounds such as solvents, formaldehyde or isocyanates that could be emitted during regular use.
- C. The Contractor shall notify employees at least 24 hours in advance, or promptly in emergency situations, of work to be performed on the site that may introduce air contaminants into the surrounding occupied site or buildings.

### 1.10 TEMPORARY FENCING

A. Temporary fencing is not required for this Project.

**END SECTION** 

### SECTION 01 41 00 QUALITY REQUIREMENTS

### PART 1 - GENERAL

### 1.1 RELATED DOCUMENTS

A. Drawings and General Provisions of the Contract, including General and Supplementary Conditions, and other Division 1 Specification Sections, apply to this Section.

### 1.2 SUPERVISION

- A. Provide day-to-day site supervision through a Site or Project Superintendent who is fluent in the English Language.
- B. Assure that site supervision, craftspersons, and subcontractors are knowledgeable and experienced in their portion of the work and know and understand the specified requirements and methods needed for performance of the work.

### 1.3 SITE MAINTENANCE

- A. Clean construction and adjoining areas daily and remove debris, legally disposing of all materials.
- B. Store materials and equipment in closed lockable containers at locations designated by the Owner.

### 1.4 WARRANTIES

- A. The Contractor warrants to the Owner and Architect that materials and equipment furnished under this Contract will be good quality, new, and that the work will be free of defects for a period of one (1) year from the date of final acceptance, and will conform to the requirements of the Contract Documents.
- B. Roof Warranties
  - 1. Performance Agreement: All roofs shall be designed for a minimum life of forty (40) years. The contractor shall provide a five (5) year performance agreement on labor and material in addition to the manufacturer's warranty. The performance agreement shall include the stipulation that the Contractor shall perform all inspections and emergency repairs to all defects or leaks in the roofing system within 24 hours of receipt of notice from the owner. Repairs shall include all labor, roofing materials, flashings, etc. When weather permits, all temporary repairs shall be redone and the roof restored to the standard of the original installation.
  - 2. Warranty: Provide shingle manufacturer's warranty on installed work, agreeing to pay for repair or replacement of defective shingles as necessary to eliminate leaks. Period of warranty is (25) years from date of final acceptance.

# SECTION 01 41 13 REGULATORY COMPLIANCE

### PART 1 - GENERAL

### 1.1 RELATED DOCUMENTS

A. Drawings and General Provisions of the Contract, including General and Supplementary Conditions, and other Division 1 Specification Sections, apply to this Section.

### 1.2 SITE SAFETY

- A. The Contractor is solely responsible for all site safety and compliance with OSHA regulations.
- B. The Contractor shall inspect and assure compliance with all statutory requirements for worker protection and safety. The Contractor shall provide, inspect, and assure that all workers utilize appropriate worker protective and safety gear.
- C. Instruct workers and inspectors in the proper use of all protective and safety equipment.

### 1.3 CODES, PERMITS, AND INSPECTIONS

- A. Codes: The work described by these Contract Documents shall be accomplished in strict accordance with the New Jersey Uniform Construction Code and in full compliance with the following Codes as applicable:
  - INTERNATIONAL BUILDING CODE, NEW JERSEY EDITION 2009
- B. Permits:
- 1. U.C.C. Construction Permit has been issued for this construction. There will be no costs to the Contractors for these permits.
- C. Inspections:
  - All construction inspections will be provided by DCA and shall be coordinated through the DPMC Construction Project Manager.

### **END OF SECTION**

PROJECT No. T0510-00

		:

# SECTION 01 61 00 PRODUCT REQUIREMENTS

### PART 1 - GENERAL

### 1.1 RELATED DOCUMENTS

A. Drawings and General Provisions of the Contract, including General and Supplementary Conditions, and other Division 1 Specification Sections, apply to this Section.

### 1.2 SHOP DRAWINGS AND SUBMITTAL PROCEDURES

- A. Schedule of Shop Drawings and Other Submittals: Within seven (7) days of the Notice to Proceed, the, Contractor shall submit a Schedule of anticipated Shop Drawings and other submittals to be made, including the anticipated submission date and date of action required by the Design Professional.
- B. Contractor's Transmittal Form: The Contractor shall prepare and submit a detailed transmittal for each submittal. This form is to be used for submission and approval of all materials, fixtures, and shop drawings to be utilized in the construction. The transmittal for shall include the Contractor's name, address, fax and telephone number, and for each item submitted, a description of submittal and reference Specification Section or Drawing No.
- C. The Contractor is to submit one transmittal form (with six (6) six attachments of shop drawings, product data or testing results when appropriate) to the Architect. A copy of the transmittal letter shall be sent to the Construction Project Manager.
- D. Shop Drawings: Shop drawings and samples shall be dated and marked to show the name of the Project, Architect, Contractor, originating subcontractor, manufacturer or supplier and detailer, if pertinent. Shop drawings shall completely identify Specification section and locations at which materials or equipment is to be installed. Reproduction of the contract drawings is acceptable as shop drawings only when specifically authorized in writing by the Architect. Submission of shop drawings, manufacturer's specifications, installation instructions, material diagrams and samples shall be accompanied by the Contractor's transmittal form as outlined in paragraph B of this section. Submit one (1) reproducible transparency and three (3) prints of each shop drawing including fabrication, erection, layout and setting drawings and such other drawings as required under various sections of the Specifications, until final approval is obtained. Submit six (6) copies of the manufacturer's descriptive data including catalogue sheets for materials, equipment and fixtures, showing dimensions, performance characteristics and capabilities, wiring diagrams and controls, schedules and other pertinent information as required. Where printed material describes more than one product or model, clearly identify which is to be furnished. The Contractor is responsible for obtaining and distributing required prints of shop drawings to other prime contractors, subcontractors, and material suppliers after, as well as before, final approval. Prints of reviewed shop drawings shall be made from transparency which carries the Architect's appropriate stamp.

### E. Product Data:

- 1. Submit only pages which are pertinent; mark each copy of standard printed data to specifically identify only pertinent products; identify each submittal by designated submittal reference number. Show standards, performance characteristics, and capacities; wiring and piping diagrams; controls; component parts; finishes; dimensions; and require clearances.
- Modify manufacturer's standard schematic drawings and diagrams to supplement standard
  information and to provide information specifically applicable to work of this project. Delete
  information not applicable.
- F. All submittals shall be made within seven (7) calendar days of the Notice to Proceed.
- G. Enforcement of Submittal Requirement:
  - 1. The Contractor will be required to provide shop drawings, testing, laboratory test reports, product samples and test installations in order to establish acceptable standards of workmanship.

- 2. The requirement for submittal and review of <u>all</u> specified shop drawings, test, product samples and test installations will be <u>rigorously enforced</u>. General work of each section shall not commence prior to required review. All work conducted prior to the review of required submittals, including test installation, is subject to rejection by the Architect. All rejected work shall be removed and replaced by the Contractor at no additional expense to the Owner.
- H. Contractor's Examination of Submittals: Prior to forwarding submittals to the Architect, the Contractor shall:
  - 1. Review submittals to verify quantities, field measurements, field construction criteria, assembly and installation requirements, manufacturer's catalog numbers, and conformance of submittals with requirements of Contract Documents.
  - 2. Review each submittal to determine that it is acceptable in terms of the means, methods, techniques, sequences and operations of construction, and in terms of safety precautions, all of which are the contractor's sole responsibility.
  - 3. Clearly call to the Architect's attention any submittal that varies from what the Contract Documents have called for. Notify the Architect in writing at time of submittal of any deviations from requirements of Contract Documents.
  - 4. Clearly identify the products or product data which are pertinent to this project. Clearly mark through or delete all information which is not applicable.
  - 5. Stamp and sign each submittal to certify that the Contractor has checked for completeness and compliance with requirements of the contract documents and that the submittal has his/her approval.
    - a. The stamp shall state: "I certify that I have reviewed the above submittal and have verified that products, field dimensions, quantities, and field construction criteria comply with and have been coordinated with the requirements of Work and Contract Documents".
    - b. Samples or submittals which in the opinion of the Architect have clearly not been checked for compliance by the Contractor will not be reviewed and it will be the responsibility of the Contractor to arrange for return of such submittals.
  - 6. Do not fabricate products or begin work which requires submittal review until return of submittal with Architect's acceptance. Work begun or completed prior to the Architect's review of required submittals is subject to rejection. Remove and replace rejected work at no additional cost to the Owner.
- 1. Architect's Review:
  - 1. Allow seven (7) days for Architect's review of each submittal. Daily allowance is time in possession of Architect and exclusive of delivery from and to Contractor and exclusive of resubmissions.
  - 2. The Architect's review is limited to aesthetics, general conformance with the project design intent, and general compliance with information contained in Contract Documents. The Architect's review is neither a verification of Contractor's examination nor a substitution of Contractor's responsibilities. Architect may inform Contractor of any conspicuous errors on a submittal without prejudice to being held harmless to Contractor's examinations and responsibilities.
  - 3. Upon review, any action shown by the Architect is subject to the requirements of the plans and specifications. The Architect's review does not authorize changes in contract requirements unless a separate written directive or change order is issued. The Contractor is responsible for conforming and correlating all quantities and dimensions, selecting fabrication processes and techniques of construction, coordinating his or her work with that of all other trades, and performing all work in a safe and satisfactory manner.
  - 4. The Architect will not review:
    - a. Any submittal which is not called for by the contract documents or not requested in writing by the Architect.

### **DIVISION 1 - GENERAL REQUIREMENTS**

- b. Any submittal which does not bear the Contractor's stamp and signature certifying that he has checked the submittal for completeness and compliance with the contract documents and that the submittal has his/her approval.
- c. Any submittal which does not bear the project name and contract number and the contractors, subcontractors, and suppliers names, addresses, and phone numbers.
- d. Any submittal which does not clearly identify pertinent product (if more than one are shown). Clearly mark through all information which is not applicable.
- 5. The Architect will not accept and will not review "faxed" submittals or submittals copied from a telefaxed transmission unless previously authorized by the Architect in the interest of the project.
- 6. The Architect will not accept and will not review "E-mailed" submittals or submittals unless previously authorized by the Architect in the interest of the project.
- J. The Contractor shall be required to make submittals, revise and resubmit as required and establish compliance with the specified requirements requested in all sections of these Technical Specifications that are a part of this Contract Document. These submittals include but are not limited to shop drawings, manufacturer's literature, samples, colors, mock-ups, inspection reports, certifications, and delivery receipts.
- K. It is also the Contractor's responsibility, when so required by the Contract Documents or by written request from the State, to deliver all required proof that the materials or workmanship, or both, meet or exceed the requirements of the specifically named code or industry standard.
- L. The Contractor shall not be relieved of responsibility for deviations from requirements of the Contract Documents by the Architect's approval of Shop Drawings, Product Data, Samples, or similar submittals unless the Contractor has specifically informed the Architect in writing of such deviation at the time of the submittal and the Architect has given approval of the specific deviation. The Contractor shall not be relieved of responsibility for errors or omissions in the Shop Drawings or similar submittals by the Architect's approval thereof.

# 1.3 SUBSTITUTIONS

- A. Contractor's proposed substitutions shall be made within seven (7) calendar days from the Notice to Proceed. After that time has expired no substitutions will be considered by the State. Substitution submittals that are incomplete will be rejected.
- B. Every substitution shall be accompanied with a certification from the contractor that they have personally investigated the proposed substitution and that it meets or exceeds the specified item.
- C. Every substitution must be accompanied with a credit change order.
- D. Implied substitutions are not acceptable.

PART 2 – MATERIALS (NOT USED)

PART 3 - EXECUTION (NOT USED)



# SECTION 01 78 00 CLOSEOUT SUBMITTALS

### PART 1 - GENERAL

### 1.1 RELATED DOCUMENTS

A. Drawings and General Provisions of the Contract, including General and Supplementary Conditions, and other Division 1 Specification Sections, apply to this Section.

### 1.2 MAINTENANCE MANUALS

- A. General Requirements: Submit four (4) bound sets of Maintenance Manuals as hereinafter defined.
- B. General Contractor: This Maintenance Manual shall be clearly labeled on the front and side with the Project Title and Number and shall be divided into four (4) sections, as follows:
  - 1. Subcontractor, material supplier listings. The names, addresses and telephone numbers shall be listed and indexed for each component or item incorporated into the work.
  - 2. Warrantees and Guarantees: All required warranties and guarantees shall be placed in this Section. Warrantees shall be fully executed, signed, and dated.
  - 3. Copies of approved submittal cuts, together with parts lists and operating instructions shall be in this Section.
  - 4. Shop Drawings: Copies of approved shop drawings delineating all as-built conditions shall be set forth in this Section.

### 1.3 AS-BUILT DRAWINGS

- A. The Contractor is required to maintain an updated set of "as-built" drawings on-site throughout the course of the Project in accordance with Paragraphs 4.9.8 through 4.9.10 of the Instructions to Bidders and General Conditions. The Contractor shall present the as-built drawings for review at each Job Meeting.
- B. Complete construction As-Builts, certified by the Contractor as complete to the best of his knowledge, must be provided at the completion of the Project.

PART 2 - MATERIALS (NOT USED)

PART 3 – EXECUTION (NOT USED)

# **SECTION 02 05 90** REMOVAL OF ASBESTOS MATERIALS

### PART 1 - GENERAL

#### 1.1 **RELATED DOCUMENTS**

A. Drawings and General Provisions of the Contract, including General and Supplementary Conditions, and other Division 1 Specification Sections, apply to this Section.

#### 1.2 **SUMMARY**

A. Scope of work: Work consists of the complete removal of asbestos containing roof felts, membrane flashings, and roofing cements. All effected material shall be removed according to this specification.

#### **RELATED WORK** 1.3

- A. The work of this section shall be coordinated with Section 02 07 00 Selective Demolition and Section 07 31 13 Shingle Roofing. The buildings will remain operational throughout the roof replacement operation and must remain water tight.
- B. On building 7 coordinate the removal of the metal panel roofing and temporary coverings, the work of this section and the installation of roofing underlayment. Only remove as much roofing as can be installed within a clear weather period. Provide temporary coverings in case of unexpected perception.

#### **ACM MONITORING SERVICE** 1.4

- A. Contract with one of the following DPMC Classified Environmental Firms (Environmental Consultant) to provide ACM daily air monitoring both inside and outside of the buildings during the removal of the built-up roofing and to administer the requirements of this section.
  - 1. Environmental Connection, Inc.

120 North Warren Street Trenton, NJ 08608 Phone: 609-392-4200

Fax: 609-392-1216

2. Whitman

7 Pleasant Hill Road Cranbury, NJ 08512 Phone: 732-390-5858 Fax: 732-390-9496

3. USA Environmental Management, Inc.

344 West State Street Trenton, NJ 08618 Phone: 609-656-8101

Fax: 609-656-8103

### 1.5 WORKER PROTECTION

- A. Personnel air monitoring is required during all asbestos abatement work in accordance with OSHA 1926.1101 ASBESTOS.
- B. The Contractor shall secure all permits associated with the abatement work, and pay all associated fees.
- C. Respiratory protection is required during all asbestos abatement work as required by OSHA 29 CFR 1910.134 and 1926.1101.

## 1.5 QUALITY ASSURANCE

A. Use adequate numbers of skilled workmen who are thoroughly trained and experienced in asbestos abatement and who are completely familiar with the specified requirements and the methods needed to properly perform the work of this Section. All workers performing EPA Class II asbestos related work must have been trained in accordance with the US EPA Model Accreditation Plan as specified in 40 CFR 763.92 (a)(2).

# 1.6 AVAILABLE INFORMATION

A. The asbestos-containing materials involved in this project are listed below with the percentage and type of asbestos in each material.

Black Flashing Around Chimney: Black Rolled Roofing with Silver Coating Under Metal Corrugated Roof: 10% Chrysotile 5% Chrysotile

B. The test results listed above are for Fernwood Building No.20. Building 7 was constructed at same time and is of the same construction as Building No.20. For the purposes of this Project, it shall be assumed that the materials noted are asbestos containing on all roofs.

# 1.7 CODES AND REGULATIONS

- A. This subsection covers the governmental regulations and industry standards that shall be adhered to during this project. These regulations and standards are the minimal requirements for this project, therefore, if the contract documents indicate procedures which are more strict, the contract documents shall govern.
- B. It is the Contractor's full responsibility to comply with all applicable federal, state and local regulations governing asbestos abatement work practices, including hauling and disposal of waste and protection of workers, visitors, and persons, occupying project and adjacent areas. The Contractor is responsible for providing medical examinations and maintaining medical records of personnel as required by the applicable federal, state, and local regulations. The Contractor shall hold the State of New Jersey and Ronald A. Sebring Associates harmless for failure to comply with any applicable work, hauling, disposal, safety, health or other regulation on the part of himself, his employees, or his subcontractors.
- C. Federal Regulations which govern asbestos abatement work and/or the hauling and disposal of asbestos waste materials include, but are not limited to, the following:
  - 1. U.S. Department of Labor, Occupational Safety and Health Administration (OSHA) including, but not limited to:
    - a. Occupational Exposure to Asbestos, Tremolite, Anthophyllite, and Actinolite; 29 CFR 1926.1101 (amended)
    - Respiratory Protection29 CFR Part 1910, Section 134
    - c. Construction Industry29 CFR Part 1926.1101 (amended)

FERNWOOD COMPLEX
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- d. Access to Employee Exposure and Medical Records 29 CFR Part 1910, Section 2
- e. Hazard Communication 29 CFR Part 1910, Section 1200 and Part 1926.1101 (amended)
- f. Specifications for Accident Prevention Signs and Tags 29 CFR Part 1910, Section 145
- 2. U.S. Environmental Protection Agency (EPA) including, but not limited to:
  - a. Asbestos Abatement Projects; Worker Protection Rule 40 CFR Part 763, Subpart G
  - Asbestos Hazard Emergency Response Act (AHERA) Regulation Asbestos-Containing Materials in Schools Final Rule & Notice 40 CFR Part 763, Subpart E
  - c. National Emission Standard for Hazardous Air Pollutants (NESHAPS) 40 CFR Part 61, Subpart A, and Subpart M (Revised Subpart B)
  - d. Asbestos Model Accreditation Plan
     40 CFR Part 763 (amended), Appendix C to Subpart E
- 3. U.S. Department of Transportation, including, but not limited to:
  - a. Hazardous Substances 29 CFR Part 171 and 172
- D. Local Regulations that govern asbestos abatement work and/or hauling and disposal of asbestos waste materials include, but are not limited to:
  - 1. NJAC 5:23-8- Asbestos Hazard Abatement Subcode.
  - 2. New Jersey Department of Health regulation 8:60
  - 3. New Jersey Department of Labor regulation 12:120
  - 4. New Jersey Department of Environmental Protection regulation 7:26
- E. Standards that govern asbestos abatement work or hauling and disposal of asbestos waste materials include but are not limited to the following:
  - 1. American National Standards Institute (ANSI)

1430 Broadway

New York, New York 10018

- a. ANSI Standard Z9.2-79 applies specifically to the design and operation of local exhaust systems for maintaining negative pressure.
- b. ANSI Standard Z288.2-80 applies to practices for respiratory protection.
- 2. American Society For Testing and Materials (ASTM)

100 Barr Harbor Drive

West Conshohocken, PA 19428

- a. Specification for Encapsulants for Friable
   Asbestos Containing Building Materials Proposal P-189
- b. Safety and Health Requirements Relating to Occupational Exposure to Asbestos E 849-82

# 1.8 NOTICES

A. Contractor shall send written notification, as required by U.S. EPA National Emission Standards for Hazardous Air Pollutants (NESHAPS) Asbestos Regulations (40 CFR 61, Subpart M), to the regional Asbestos NESHAPS Contact at least ten working days prior to beginning any work on asbestoscontaining materials. Send notification to the following address:

U.S. ENVIRONMENTAL PROTECTION AGENCY Asbestos NESHAPS Contact Air & Waste Management Division US EPA 26 Federal Plaza New York, New York 10007

- 1. Written notification sent to NESHAPS contact shall include the following:
  - a. Name and address of owner or operator.
  - b. Description of the facility being demolished or renovated, including the size, age, present and prior use of the facility.
  - c. Procedure, including analytical methods, employed to detect the presence of ACM and Category I and Category II non-friable ACM.
  - d. Estimate of the approximate amount of ACM to be removed from the facility is terms of length of pipe in linear meters (linear feet), surface area in square meters (square feet) on other facility components, or volume in cubic meters (cubic feet) if off the facility components. Also, estimate the approximate amount of Category I and Category II non-friable ACM in the affected part of the facility that will not be removed before demolition.
  - e. Location and street address (including building number or name and floor or room number, if appropriate), city, county, and state, of the facility being demolished or renovated.
  - f. Scheduled starting and completion dates of asbestos removal work (or any other activity, such as site preparation that would break up, dislodge, or similarly disturb asbestos material) in a demolition or renovation.
  - g. Scheduled starting and completion dates of demolition or renovation.
  - h. Description of planned demolition or renovation work to be performed and method(s) to be employed, including demolition or renovation techniques to be used and description of affected facility components.
  - Procedures to be used to comply with the requirements of US EPA National Emission Standards for Hazardous Air Pollutants (NESHAPS) Asbestos Regulations (40 CFR 61 Subpart M), including asbestos removal and waste handling emission control procedures.
  - j. Name and location of the waste disposal site where the asbestos waste material will be deposited.
  - k. Description of procedures to be followed in the event that unexpected ACM is found or Category II non-friable ACM becomes crumbled, pulverized, or reduced to powder.
  - l. Name, address, and telephone number of the waste transporter.
- B. Contractor shall send written notification to any other federal, state or local agencies as required. These agencies may include, but are not limited to the following:
  - I. OSHA

Occupational Safety and Health Administration 201 Varick Street Room 670 New York, New York 10014

2. NIOSH

National Institute for Occupation Safety and Health Region II - Federal Building 26 Federal Plaza

New York, New York 10007

3. New Jersey Department of Health

Asbestos Control Program

Division of Occupational and Environmental Health

P.O. Box 360

Trenton, New Jersey 08625-0360

4. New Jersey Department of Labor

Office of Asbestos Control and Licensing

P.O. Box 054

Trenton, New Jersey 08625-0054

5. New Jersey Department of Environmental Protection

Division of Solid Waste Management

840 Bear Tavern Road

P.O. Box 414

Trenton, New Jersey 08625-0414

6. New Jersey Department of Community Affairs

Bureau of Code Services

P.O. Box 816

Trenton, New Jersey 08625-0816

C. Contractor shall submit notifications on the form acceptable to each Department.

### 1.9 PERMITS AND FEES

A. Contractor shall obtain any required project permits and pay all associated fees, including any bonds that may be required.

### 1.10 SUBMITTALS

- A. It is the intent of this section to show all submittals required of the Contractor after award of the
- B. The following information shall be submitted at the pre-construction meeting prior to any mobilization activity.
  - 1. Copy of Project Notification and list of agencies notified.
  - 2. Gantt (bar) chart indicating location, times, number of shifts, dates, and type of work to be performed for each location.
  - 3. A plan for preparation of work site including location of asbestos waste container.
  - 4. Written description of emergency procedures to be followed in case of injury or fire. This section must include evacuation procedures, source of medical assistance and procedures to be used for access by medical personnel (examples: first aid squad and physician). These procedures shall be work area specific and detailed.
  - 5. Copies of the project notification forwarded to Ronald A. Sebring Associates, General Contractor (if applicable), Fire Department, Police Department and any other person, company and/or agency, in compliance with OSHA 1926.1101 {d}.
  - 6. Telephone numbers and locations of emergency response personnel.
  - 7. Description of protective clothing to be used.
  - 8. Manufacturer's product information for each component of the respiratory assembly to be used, including NIOSH and MSHA Certifications for each component.
  - 9. Level of respiratory protection intended for each operation required by the project.

- 10. Documentation of fit testing program conducted by the Asbestos Abatement Contractor.
- 11. Explanation of the handling of asbestos contaminated waste including name, address and U.S. EPA and NJ DEP identification numbers of Waste Hauler, and location of landfill.
- 12. Air monitoring results (supplied by Contractor's testing laboratory) from most recent asbestos abatement project.
- 13. Name and qualifications of Contractor's testing laboratory, including AIHA accreditation and proof of NIOSH PAT program participation for approval by Architect.
- 14. Delineation of responsibility for work site supervision with names, resumes, and home telephone numbers of responsible parties.
- 15. A list of all personnel to be used on this project and training courses attended by the personnel including U.S. EPA, state, city, or other seminars, or any certifications obtained. Include dates of attendance and course director.
- 16. Report from medical examination conducted within last twelve months as part of compliance with OSHA medical surveillance requirements for each worker who is to enter the work area. Submit, at a minimum, for each worker, the following:
  - a. Name and Social Security Number
  - b. Written opinion from examining physician including, at a minimum, the following:
    - Whether worker has any detected medical conditions that would place the worker at an increased risk of material health impairment from exposure to asbestos.
    - 2. Any recommended limitations on the worker or on the use of personal protective equipment such as respirators.
    - Statement that the worker has been informed by the physician of the results of the medical examination and of any medical conditions that may result from asbestos exposure.
    - 4. Copy of information that was provided to physician in compliance with 29 CFR 1926.1101.
    - 5. Statement that worker is able to wear and use the type of respiratory protection proposed for the project, and is able to work safely in an environment capable of producing heat stress in the worker.
- 17. Submit certification, signed by an officer of the asbestos abatement-contracting firm, that exposure measurement, medical surveillance, and worker-training records are being kept in conformance with 29 CFR 1926.1101.
- C. After the completion of the project, the Contractor shall submit daily reports maintained during the project. This report shall include, but not be limited to the following items:
  - 1. Meetings
  - 2. Visitations; authorized and unauthorized.
  - 3. Personnel, by name, entering and exiting the work area.
  - 4. Special or unusual events, e.g., barrier breaching, negative air filtration equipment failure.
  - 5. Air monitoring samples and results.
  - 6. Disposal chain-of-custody forms, including amount of material, waste hauler's signature, landfill operator's signature and location where material was removed.
  - 7. The report shall contain dates and times of all events recorded.

### **PART 2 - PRODUCTS**

# 2.1 MATERIALS

- A. Flame resistant polyethylene sheeting shall be largest sheet size possible to minimize seams. Thickness shall be six-mils, and shall be clear, frosted, or black as required. All polyethylene shall be certified to conform to NFPA Standard 701 "Standard Methods of Fire Tests for Flame Resistant Textiles and Films".
- B. Duct tape, in two or three-inch widths as indicated, with an adhesive which is formulated to aggressively stick to sheet polyethylene.
- C. Asbestos warning signs, in English and Spanish, for posting at the perimeter of all work areas, as required by U.S. EPA, OSHA, and NJAC 5:23-8.
- D. Disposable full-body coveralls including foot and head covers. Require that they be worn by all workers in the work area. Provide a sufficient number for all required changes, for all workers in work area, authorized visitors, inspectors, and the Architect.
- E. Provide gloves to all workers, authorized visitors, inspectors, and the Architect. Require that they be worn by all workers inside the work area. Do not remove gloves from work area. Dispose of as asbestos-contaminated waste at the end of work.
- F. Half-face, at a minimum or full-face type respirators for each worker. Equip full-face respirators with a nose cup or other anti-fogging device. Respirators shall be equipped with High Efficiency Particulate Air (HEPA) type filters, labeled with NIOSH and MSHA Certification for "Radionuclides, Radon Daughters, Dust, Fumes, Mists including Asbestos-Containing Dusts and Mists" and color-coded in accordance with ANSI Z228.2 (1980). Single use, disposable, or quarter-face respirators are strictly forbidden for asbestos abatement work.
- G. Disposal bags shall be six-mil thick, leak tight polyethylene bags, labeled in accordance with U.S. EPA NESHAPS regulations, OSHA 29CFR1926 and the U.S. Department of Transportation Hazardous Waste Hauling Regulation.
- H. If waste components are wrapped with polyethylene, or if fiberboard drums are utilized, provide labels to be attached to each component in accordance with U.S. EPA NESHAPS regulations, OSHA 29 CFR 1926.1101, and the U.S. Department of Transportation Hazardous Waste Hauling Regulation.

# **PART 3 - EXECUTION**

# 3.1 AIR MONITORING - TESTING LABORATORY SERVICES

# A. DESCRIPTION

- 1. This section describes the air monitoring responsibilities of the Contractor throughout the project. The Contractor's air monitoring responsibilities shall be conducted by an independent firm.
  - a. Air monitoring as required by OSHA is the direct responsibility of the Contractor.
  - b. Air monitoring on the building exterior at the limits of construction limits
  - c. Air monitoring of the building interior

### B. AIR MONITORING

- 1. Pre-Tests
  - a. The AST may conduct pre-tests in the work area prior to the start of any work, including work area preparation of any type.

## 2. Monitoring During Abatement

a. The Contractor shall conduct all monitoring as specified during the abatement and decontamination phases of the project. All costs associated with this monitoring shall be borne by the Contractor.

### C. PROCEDURES

- 1. Sampling and analysis methods shall be per NIOSH Method 7400 or ORM.
- 2. Filter cassettes and sampling train shall be assembled as specified in NIOSH Method 7400.
- 3. 3All Contractor air monitoring shall be conducted by a trained technician.
- 4. Employee personnel samples shall be taken using pumps whose flow rates are calibrated for a rate of one to two and one-half liters per minute (LPM). All air monitoring pumps shall be calibrated before and after every sampling period, the results of which shall be recorded.
- 5. Air sample results shall be received verbally no later than twenty-four hours after the end of the shift during which the samples were taken.
- 6. Written reports of air sampling results shall be posted outside the decontamination chamber on a daily basis.

### D. LABORATORY SERVICES

- 1. Laboratories shall meet the following:
  - a. For phase contrast microscopy (PCM) analysis, laboratories shall be currently enrolled in the American Industrial Hygiene Association Proficiency Analytical Testing Program (AIHA PAT) or equivalent recognized program.

### E. REPORTS

1. A written report of the OSHA sampling shall be submitted to the Architect at the completion of the project. The report shall contain all air sampling data and subsequent results, problems encountered and corrective actions, pump calibrations, and general observations.

### 3.2 SITE CONTROLS

# A. WARNING SIGNS

Contractor shall supply and post caution signs meeting the requirements of OSHA 29 CFR 1926 at
any location, and approaches to a location, where airborne concentrations of asbestos may exceed
ambient background levels. Signs shall be posted at a distance sufficiently far enough away from
the work area to permit an employee to read the sign and take the necessary protective measures.

### **B. CRITICAL BARRIERS**

 Completely isolate the work area from other portions of the project by installing warning tape, construction barriers and additional signs, as required.

# 3.3 WORKER TRAINING AND MEDICAL EXAMINATIONS

A. Contractor shall train workers, in accordance with 29 CFR 1926.1101(k)(8), on the dangers inherent in handling asbestos and breathing asbestos dust and in proper work procedures and personal and area protective measures. Training for any Class I or II (OSHA designations) abatement work shall be in accordance with the U.S. EPA Model Accreditation Plan (MAP) for asbestos abatement worker training. Include, but do not limit, the topics covered in the course to the following:

- 1. Methods of recognizing asbestos.
- 2. Health effects associated with asbestos.
- 3. Relationship between smoking and asbestos in producing lung cancer.
- 4. Nature of operations that could result in exposure to asbestos.
- 5. Importance of and instruction in the use of necessary protective controls, practices and procedures to minimize exposure including:
  - a) Engineering controls
  - b) Work Practices
  - c) Respirators
  - d) Housekeeping procedures
  - e) Hygiene facilities
  - f) Protective clothing
  - g)Decontamination procedures
  - h) Emergency procedures
  - i) Waste disposal procedures.
- 6. Purpose, proper use, fitting, instructions, and limitations of respirators, as required by 29 CFR 1910.134.
- 7. Appropriate work practices for the work.
- 8. Requirements of medical surveillance program.
- 9. Review of 29 CFR 1926.1101, including appendices.
- 10. Negative air systems.
- 11. Work practices including hands-on or on-job training.
- 12. Personal decontamination procedures.
- 13. Air monitoring, personal and area.
- 14. Contractor shall provide medical examinations for all workers in accordance with 29 CFR 1926.1101(m). Provide an evaluation of the individuals ability to work with respiratory protection in environments capable of producing heat stress in the worker.

### 3.4 RESPIRATORY PROTECTION

- A. Contractor shall have a respiratory protection program established in compliance with ANSI Z88.2 1980 "Practices for Respiratory Protection" and OSHA 29 CFR 1910 and 1926. The written program shall be posted at the job site.
  - 1. Anyone entering the work area is required to wear a respirator at all times, regardless of activity, airborne fiber levels or amount of time inside the work area.
  - 2. At no time shall single-use, disposable, or quarter-face respirators be used.
  - No one having a beard or other facial hair in the fit area will be permitted to don a respirator and enter the work area.
- B. Contractor shall conduct a fit testing program as required by OSHA 29 CFR 1926. Documentation of fit testing program shall be submitted to the Environmental Consultant.
- C. Asbestos abatement workers shall perform positive and negative pressure fit checks each time a respirator is donned, whenever the respirator design so permits.
- D. Respirators shall be provided to all workers as follows: During all abatement work, negative pressure air-purifying respirators equipped with high-efficiency (HEPA) filters shall be utilized, as a minimum.

### 3.5 PROJECT DECONTAMINATION

### A. INITIAL CLEANING

- Carry out initial cleaning of all surfaces which came into contact with the asbestos-containing
  materials removed, including any tools, etc., by use of damp-cleaning and mopping, and/or a
  HEPA filtered vacuum. Do not perform dry dusting or dry sweeping. Use each surface of a
  cleaning cloth one time only, and then dispose of as contaminated waste. Continue this cleaning
  until there is no visible debris from removed materials or residue on substrate surfaces.
- 2. Upon completion of this initial cleaning operation, and after all surfaces have dried, the Contractor shall request a pre-sealant inspection by the Architect. If no visible material is observed, the Contractor will be allowed to continue. However, if visible material is found, the Contractor shall clean the area until it is acceptable to the Architect. This re-cleaning shall be performed at no additional cost to the Owner.

### B. COMPLETION OF ABATEMENT WORK

- 1. Any small quantities of residual material found on-site shall be removed with a HEPA filtered vacuum cleaner and local area protection. If significant quantities, as determined by the Architect, are found then the entire area affected shall be decontaminated as specified herein.
- 2. Asbestos abatement work is complete upon meeting the work area clearance criteria and fulfilling the following:
  - a) Remove all equipment, materials, debris from the work site.
  - b) Dispose of all asbestos-containing waste material as specified.

# SECTION 02 07 00 SELECTIVE DEMOLITION

### **PART 1 - GENERAL**

### 1.1 RELATED DOCUMENTS

A. Drawings and General Provisions of the Contract, including General and Supplementary Conditions, and other Division 1 Specification Sections, apply to this Section.

### 1.2 SUMMARY

- A. The scope of work under this section includes:
  - 1. Building 7: All labor and incidentals for the demolition and disposal of existing temporary roofing, metal roofing panels, fascia boards, and rake boards, and nailers in preparation of the removal of the built-up roofing system under Section 02 05 90. Final cleanup is also included.
  - 2. Building 5: All labor and incidentals for the demolition and disposal of existing temporary covering and existing shingle roofing, fascia boards, and rake board. Final cleanup is also included.

### 1.3 RELATED WORK

- A. For Building 7, the work of this section shall be coordinated with Section 02 05 90 Removal of Asbestos Materials and Section 07 31 13 Shingle Roofing. The buildings shall remain operational throughout the roof replacement operation and shall remain water tight. Only remove as much roofing as can be installed within a clear weather period. Provide temporary coverings in case of unexpected precipitation.
- B. For Building 5, the work of this section shall be coordinated with Section 07 31 13 Shingle Roofing. The buildings shall remain operational throughout the roof replacement operation and shall remain water tight. Only remove as much roofing as can be installed within a clear weather period. Provide temporary coverings in case of unexpected precipitation.

# 1.4 QUALITY ASSURANCE

A. The Contractor will take extraordinary care to assure that demolition causes no damage to adjacent construction.

# **PART 2 - NOT USED**

### **PART 3 - EXECUTION**

# 3.1 DEBRIS REMOVAL AND DISPOSAL

- A. All debris shall be removed from the construction site and legally disposed. Debris shall be removed from the construction site as demolition operations progress either by truck or dumpster. Debris shall not be allowed to accumulate on or near the construction site. If debris is to be removed from the construction site utilizing dumpsters, debris may be stored in the dumpsters until full. However, full dumpsters shall not be allowed to remain on the site. Dumpster locations shall be approved by the Architect.
- B. Upon completion of demolition work, remove tools, equipment and other unnecessary materials from the site. Remove protections and leave the area broom clean. Repair and clean adjacent construction or surfaces soiled or damaged by selective removal work.
- C. No material shall be burned on site.

- D. The use of any and all open flame devices is strictly forbidden on this project. No smoking will be permitted.
- E. Where equipment that might cause a fire is used, keep fire extinguishers ready within 50ft. of the work site for instant use. Users of such equipment shall be instructed in the proper method to prevent fires and to extinguish a fire.

**END OF SECTION** 

ROOF REPLACEMENT – BUILDING NOS. 5 & 7 NJDOT HEADQUARTERS FERNWOOD COMPLEX PROJECT NO. T0510-00

# SECTION 06 10 00 ROUGH CARPENTRY

### PART 1 - GENERAL

### 1.1 RELATED DOCUMENTS

A. Drawings and General Provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

### 1.2 SUMMARY

- A. This section includes the removal of damaged roof decking and sheathing and the installation of new roof decking and sheathing, where directed by the Architect, on a unit price basis.
- B. Supply and installation of new fascia and rake boards as detailed on the drawings.

### 1.3 RELATED WORK

- A. Metal wrapping of fascias and rakes is specified in Section 07 62 00 Flashing and Sheet Metal
- B. Painting of exposed surfaces of fascia boards and rake boards is specified in Section 09 90 00 Painting and Coating

### 1.4 REFERENCES

- A. Lumber Standards Decking: Southern Pine Inspection Bureau. (SPIB)
- B. American Institute of Timber Construction (AITC): Timber Construction Manual
- C. National Lumber Grades Authority (Canadian) Framing Lumber: NLGA
- D. West Coast Lumber Inspection Bureau Framing Lumber: WCLIB
- E. Western Wood Products Association Framing Lumber: WWPA
- F. Plywood Product Standards: Comply with PS 1 (ANSI A 199.1) or, for products not manufactured under PS 1 provisions, with applicable APA Performance Standard for type of panel indicated.
- G. American Plywood Association APA Design/Construction Guide Residential and Commercial

### 1.5 PRODUCT HANDLING

A. Delivery and Storage: Keep materials dry at all times. Protect against exposure to weather and contact with damp or wet surfaces. Stack lumber and plywood, and provide air circulation within stacks.

### PART 2 - PRODUCTS

# 2.1 LUMBER

- A. Factory mark each piece of lumber with type, grade, mill, and grading agency.
- B. Lumber Standard: Comply with AITC Standard 112-93" and with applicable grading rules of Southern Pine Inspection Bureau
- C. Inspection Agencies: Inspection agencies and the abbreviations used to reference them to lumber grades and species include the following: SPIB Southern Pine Inspection Bureau.
- D. Nominal sizes are indicated, except as shown by detail dimensions.
- E. Moisture Content: Air Dried or kiln dried with 19 percent maximum moisture content at time of dressing and shipment for sizes 2 inches or less in nominal thickness, unless otherwise indicated.
- F. Decking: Southern Pine #2 or better tongue and groove decking, with a minimum bending stress (Fb) of 1,400 PSI and a modulus of elasticity (E) of 1,600,000. Decking shall match the existing profile.

### **DIVISION 6 WOOD AND PLASTIC**

- G. Framing Lumber (Fascias and Rakes):
  - 1. For light framing (less than 6" wide) provide #2 or better" grade for other light framing, Douglas Fir/Larch (WCLIB or WWPA).
  - 2. For structural framing (6" and wider and from 2" to 4" thick), provide #2 or better, Douglas Fir/Larch (WCLB or WWPA).

### 2.2 PLYWOOD

- A. Roof Sheathing: APA RATED SHEATHING
  - 1. Thickness 23/32"
  - 2. Exposure Durability Classification: "EXTERIOR"
  - 3. Span Rating: Structural 1
  - 4. Type: C-D

### 2.3 MISCELLANEOUS MATERIALS

A. Fasteners: Fasteners shall be commercial quality hot dipped galvanized.

### **PART 3 - EXECUTION**

# 3.1 DECKING INSTALLATION

- A. Decking may be installed in a simple span configuration with pieces fully supported on a minimum of two supports. Where possible install decking over multiple supports with ends of decking fully supported on existing purlins or framing. Install decking to repeat existing pattern. Patterned faces shall be installed down and exposed on the underside. Each piece of decking shall be toenailed through the tongue and faced nailed with one 16d common nail per support.
- B. Fasten fascia and rake boards to existing rafter tails or outlookers with minimum (2) 16d nails per rafter or outlooker. Nail fascia and rake boards into decking with one 16d nail at 16" on center.
- C. Plywood Roof Sheathing: Install plywood with the grain of the outer plies or long dimension at right angles to supports and spanning tow supports. Stagger end joints where possible and locate over the centerlines of supports. Allow 1/8" spacing at panel ends and 1/4" spacing at panel edges. Nail to supports with 8d galvanized nails @ 4" on center. Install two edge clips equally spaced between supports. Install edge clips also at intersections with solid sheathing.

# 3.2 CLEAN-UP

- A. General: Keep premises in a neat, safe and orderly condition at all times during execution of the work, free from accumulation of sawdust, cut ends and debris.
- B. Sweeping: At the end of each working day, more often if necessary thoroughly sweep all surfaces where refuse from this portion of the work has settled. Remove the refuse to the area of the job site designated for its storage.
- C. Final Clean-Up: Upon completion of the work of this section, thoroughly broom clean all surfaces.

# SECTION 07 31 13 SHINGLE ROOF

### PART 1 - GENERAL

### 1.1 RELATED DOCUMENTS

A. Drawings and General Provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

### 1.2 SUMMARY

A. The work under this Section includes the supply and installation of roof shingles, underlayment and accessories.

### 1.3 RELATED WORK

- A. The following related work is specified in other sections:
  - 1. Section 07 62 00 Sheet Metal Flashing and Trim
  - 2. Section 07 92 00 Joint Sealants

### 1.4 SUBMITTALS

- A. Product Data: Submit technical product data, installation instructions and recommendations from shingle manufacturer, including data that materials comply with requirements.
- B. Samples: Submit full range of samples for color and texture selection.
- C. Maintenance Stock: 2% of each type/color/texture shingle used in the work.

# 1.5 DELIVERY, STORAGE AND HANDLING

- A. Delivery: Deliver materials in manufacturer's unopened, labeled containers.
- B. Storage: Store materials to avoid water damage, and store rolled goods on end. Comply with manufacturer's recommendations for job-site storage and protection.

# 1.6 JOB CONDITIONS

- A. Substrate: Proceed with shingle work only after substrate construction and penetrating work have been completed.
- B. Weather Conditions: Proceed with shingle work only when weather conditions are in compliance with manufacturer's recommendations and when substrate is completely dry.

# 1.7 SPECIFIED PRODUCT WARRANTY

# A. Roof Warranties

1. Performance Agreement: All roofs shall be designed for a minimum life of forty (40) years. The contractor shall provide a five (5) year performance agreement on labor and material in addition to the manufacturer's warranty. The performance agreement shall include the stipulation that the Contractor shall perform all inspections and emergency repairs to all defects or leaks in the roofing system within 24 hours of receipt of notice from the owner. Repairs shall include all labor, roofing materials, flashings, etc. When weather permits, all temporary repairs shall be redone and the roof restored to the standard of the original installation.

2. Warranty: Provide shingle manufacturer's warranty on installed work, agreeing to pay for repair or replacement of defective shingles as necessary to eliminate leaks. Period of warranty is 25 years from date of final acceptance, with no prorating for the first twelve years.

### 1.8 REFERENCES

# A. ASTM International (ASTM)

- ASTM A 653/A 653M Standard Specification for Steel Sheet, Zinc Coated (Galvanized) or Zinclron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
- 2. ASTM B 209 Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate.
- 3. ASTM B 370 Standard Specification for Copper Sheet and Strip for Building Construction.
- 4. ASTM D 2218 Impact Resistance of Prepared Roof Covering Materials.
- ASTM D 3018 Standard Specification for Class A Asphalt Shingles Surfaced with Mineral Granules.
- ASTM D 3161 Standard Test Method for Wind-Resistance of Asphalt Shingles (Fan-Induced Method).
- 7. ASTM D 3462 Standard Specification for Asphalt Shingles Made From Glass Felt and Surfaced with Mineral Granules.
- 8. ASTM D 4586 Standard Specification for Asphalt Roof Cement, Asbestos-Free.
- 9. ASTM D 7158 Standard Test Method for Wind-Resistance of Sealed Asphalt Shingles (Uplift Force/Uplift Resistance Method).
- 10. ASTM E 903 Standard Test Method for Solar Absorptance, Reflectance, and Transmission of Materials Using Integrating Spheres.
- B. Underwriters Laboratories (UL) Roofing Systems and Materials Guide (TGFU R1306)
  - 1. UL 790 Tests for Fire Resistance of Roof Covering Materials.
  - 2. UL 997 Wind Resistance of Prepared Roof Covering Materials.
- C. SMACNA Architectural Sheet Metal Manual
- D. National roofing Contractors Association (NARCA)
  - 1. NRCA Roofing and Waterproofing Manual
  - 2. NRCA Steep Roofing Manual.
- E. ARMA Residential Asphalt Roofing Manual.

# PART 2 – PRODUCTS

### 2.1 MATERIALS

- A. Asphalt Shingles: Super-heavyweight, granule surfaced self sealing asphalt shingle with a strong fiberglass reinforced micro weave core and a mineral granule surfacing. Traditional 3-tab styling with a 5" exposure. UL 790 Class A rated with UL 997 wind resistance label; ASTM D 7158, Class H; ASTM D 3161, Type 1; ASTM D 3018, Type 1; ASTM D 3462; CSA 123.5-98. Color: Autumn Brown.
- B. Ridge Shingles: High profile self sealing hip and ridge cap shingle matching the color of selected roof shingle.
- C. Underlayment: Water repellent, breather type cellulose/glass fiber composite roofing underlayment, 36" wide. Meets or exceed ASTM D226 and D4869 and approved by UL and the Florida Building Code.
- D. Leak Barrier: Ice and Water Barrier (Eave Ice Dam Protection): ASTM D1970 Self-Adhering Polymer Modified Bituminous Sheet Materials consisting of rubberized asphalt bonded to skid resistant sheet polyethylene, 58 mil (1.5 mm) total thickness, with strippable treated release paper.
- E. Nails: Series 316 or 304 stainless steel, Aluminum or hot-dip galvanized (ASTM A641) steel 11or 12-gage sharp pointed conventional roofing nails with barbed shanks, minimum 3/8" diameter head, and of sufficient length to penetrate minimum 3/4" into solid decking or to penetrate through plywood sheathing. Use only stainless steel nails where nailing penetrates metal flashings.
- F. Coil Nails: Type 316 or 304 Stainless Steel.
- G. Plastic Cement: ASTM D4586 Type I or Type II.

H. Starter Course: Self sealing starter shingle.

### **PART 3 – EXECUTION**

### 3.1 INSPECTION

A. Installer of shingles must examine substrate and conditions under which shingling work is to be performed and must notify Contractor in writing of unsatisfactory conditions. Do not proceed with shingling work until unsatisfactory conditions have been corrected in manner acceptable to Installer.

### 3.2 PREPARATION OF SUBSTRATE

- A. Cleaning: Clean substrate of any projections and substances detrimental to shingling work. Cover knotholes or other minor voids in substrate with sheet metal flashing secured with roofing nails.
- B. Coordination with Other Trades: Coordinate installation of shingles with flashing and other adjoining work to ensure proper sequencing. Do not install shingle roofing until all vent stacks and other penetrations through roofing have been installed and are securely fastened against movement.

### 3.3 INSTALLATION

- A. General: Comply with instructions and recommendations of shingle manufacturer, except to extent more stringent requirements are indicated.
- B. Flashing: Install metal flashing and vent flashing as shown and in accordance with details and recommendations of the NRCA Steep Roofing Manual.
- C. Eave Metal:
  - I. Install eave metal flashing before protective underlayment.
  - 2. Place eave metal flashings tight with fascia and roof sheathing. Weather lap joints 2 inches secure flange with nails spaced 4 inches on center.

### Eave Ice Dam Protection:

- 1. Place eave edge metal flashings tight with fascia boards. Weather lap joints 2 inches and seal with roof cement. Secure flange with nails spaced 4 inches on center.
- 2. Apply Leak Barrier in accordance with the manufacturer's recommendations over eave flashing.
- 3. Extend eave protection membrane minimum 2 feet up slope beyond the interior face of the exterior wall.
- E. Protective Underlayment: Place one ply of 36" wide underlayment horizontally over entire roof over area not protected by eave protection, with edges weather lapped a minimum of 19 inches over itself and eave protection and have ends lapped a minimum of 4 inches over itself. Stagger end laps of each consecutive layer. Nail in place. Secure underlayment to deck with sufficient fasteners to hold in place until shingles are applied.

### F. Rake Metal

1. Place rake metal flashings tight with rake boards and over protective underlayment. Weather lap joints 2 inches and seal with roof cement. Secure flange with nails spaced 4 inches on center.

### G. Asphalt Shingles

1. Install self sealing starter shingles at eaves and along rake. Extend shingles 3/8" beyond roof edge. Install shingles in accordance with manufacturer's recommended pattern and weather exposure utilizing six (6) fasteners per shingle. Use horizontal and vertical chalk lines to ensure straight coursing. Hand seal shingles by applying 1/4" strip of roofing cement at seal line prior to applying next course of shingles. Comply with installation details and recommendations of shingle manufacturer and NRCA Steep Roofing Manual.

- 2. Seal rake edge shingles to underlayment and drip edge with a four inch wide strip of roofing cement.
- 3. Install Ridge shingles per manufacturer's instructions using Hip and Ridge Cap Shingles.
- 4. Surface caulk all exposed roofing nails with silicone sealant.

# 3.4 EXTRA STOCK

A. Provide minimum of 2% of installed quantity of each type/color/texture shingle used in the work. Provide in unopened clearly labeled bundles or containers.

# SECTION 07 62 00 SHEET METAL FLASHING AND TRIM

# PART 1 - GENERAL

### 1.1 RELATED DOCUMENTS

A. Drawings and General Provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

### 1.2 SUMMARY

A. Scope: The work under this Section includes the supply and installation of flashing and trim as detailed on the drawings and specified herein.

# 1.3 RELATED WORK

The following related work is specified in other sections:

Section 07 31 13 – Shingle Roof Section 07 92 00 – Joint Sealers

### 1.4 SUBMITTALS

- A. Product Data: Submit manufacturer's product specifications, installation instructions and general recommendations for each specified sheet material and fabricated product.
- B. Samples: Submit a 12" square samples of specified sheet materials to be utilized, for approval.
- C. Shop Drawings: Submit shop drawings showing layout, joining, profiles, and anchorages of fabricated work, including flashing, counter flashing, trim, fascia, expansion joint details and layouts at 1/4" scale with details at 3" scale.

# 1.5 JOB CONDITIONS

A. Coordinate work of this section with interfacing and adjoining work for proper sequencing of each installation. Ensure best possible weather resistance and durability of the work and protect of materials and finishes.

### 1.6 REFERENCES

- A. ASTM Listed Standards
- B. SMACNA Architectural Sheet Metal Manual
- C. NRCA Roofing and Waterproofing Manual
- D. NRCA Steep Roofing Manual
- E. ARMA Residential Asphalt Roofing Manual

### PART 2 - PRODUCTS

### 2.1 FLASHING AND SHEET METAL MATERIALS

- A. Step flashing, crickets, exhaust fan, pipe vent, and counter flashing, shall be fabricated from 3005-H25 Aluminum mill finish, gauge as specified in Table I.
- B. Eave flashing, rake flashing and rake and fascia metal trim shall be fabricated from 3005-H25 Aluminum. Sheet metal flashing and trim shall have the exterior side finished with an extended life, fluoropolymer coating utilizing Kynar 500® Resin. Surfaces shall be properly prepared and primed, then coated and oven-

ROOF REPLACEMENT – BUILDING Nos. 5 & 7

baked to cure. Top coating system shall have a dry film thickness of 0.75 - .90 mils on the exterior surface. Specular Gloss at  $60^{\circ}$  viewing angle shall be  $35 \pm 5\%$ . The interior side of these panels shall be protected by a back coat system of  $.60 \pm .05$  mils thickness. Panels shall be coated prior to roll forming.

C. Hot Vent: Sheet Steel Zinc-Coated (galvanized): ASTM A525 gauge as specified in Table I

### 2.2 FABRICATED UNITS

A. General Metal Fabrication: Shop fabricate work to greatest extent possible. Comply with details shown, and with applicable requirements of SMACNA "Architectural Sheet Metal Manual" and other recognized industry practices. Fabricate for waterproof and weather resistant performance; with expansion provisions for running work, sufficient to permanently prevent leakage, damage or deterioration of the work. Form work to fit substrates. Comply with material manufacturer instructions and recommendations. Form exposed sheet metal work without excessive oil-canning, buckling and tool marks, true to line and levels as indicated, with exposed edges folded back to form hems.

# B. Joining:

- 1. Sealant Joints: Where movable, non-expansion type joints are indicated or required for proper performance of work, form metal to provide for proper installation of elastomeric sealant, in compliance with industry standards.
- C. Expansion Provisions: Where lapped or bayonet type expansion provisions in work cannot be used, or would not be sufficiently water/weatherproof, form expansion joints of intermeshing hooked flanges, not less than 1" deep, filled with mastic sealant (concealed within joints).
- D. Separations: Insulate between dissimilar metals with one of the following bituminous paint, one coat primer, and one coat aluminum paint, caulking compound bituminous plastic cement, asphalt, varnish or approved non-absorptive tape or gasket. Resistance across insulated finish joint shall exceed 55,000 ohms.
- E. Eave, Rake, and Trim: Shall be constructed as detailed of .040 gauge aluminum.
- F. Hot Vent Flashings: Galvanized steel flashing with storm collar and stainless steel drawband.
- G. Pipe Vents: Prefabricated aluminum and neoprene boot.
- H. Stepped flashing shall be separate pieces of 7" x 10" metal bent in half 7" x 5" on each side.

### PART 3 – EXECUTION

# 3.1 INSTALLATION REQUIREMENTS

A. General: Except as otherwise indicated, comply with SMACNA "Architectural Sheet Metal Manual "Anchor units of work securely in place by methods indicated, providing for thermal expansion of metal units; conceal fasteners where possible, and set units true to line and level as indicated. Install work with laps, joints and seams which will be permanently watertight and weatherproof.

# 3.2 FLASHINGS

- A. Eave and Rake: Eave and rake coverings and flashings shall be installed as shown on the drawings and in full accordance with roofing manufacturer's installation instructions. Upper flange of rake flashing shall extend onto the roof a minimum of 4" and be set in roofing cement. Weather seams 2".
- B. Hot Vent: Set hot vent flashing in roofing cement on underlayment extending under shingles 12" at head and 6" on both sides. Set bottom flange on top of shingles in roofing cement extending over shingles 5" minimum. Secure storm collar with draw band and fill intersection with vent with sealant.
- C. Vent Pipe Flashings: Prefabricated aluminum and neoprene pipe flashing boot.
- D. Exhaust Fans and Gravity Ventilators: Install cricket as detailed on drawings. Install step flashing as specified herein. Install counter flashing under top cap and extend over step flashing 4".
- E. Step Flashings: Unless otherwise specified, nail each piece of step flashing to the roof at top edge with two roofing nails. Apply shingles on top of metal set in black mastic cement. Allow for possible roof movement by not nailing flashing to wall. When step flashing vertical masonry surfaces extend flashing up vertical surface 5" and cap with counter flashing.

F. Counter-flashing: Extend down vertical surfaces over base flashings not less than 4 inches. Fold the exposed edges of counter-flashings 1/2 inch. Provide end laps in counter-flashings not less than 3 inches and make it weathertight with plastic cement. Do not make lengths of metal counter-flashings exceed 10 feet. Form the flashings to the required shapes before installation. Factory-form the corners not less than 12 inches from the angle.

### **3.3 TRIM**

A. Wrap new fascia and rake boards with aluminum.

### 3.4 CLEANING AND PROTECTION

- A. Cleaning: Clean exposed metal surfaces, removing substances which might cause corrosion of metal or deterioration of finishes.
- B. Protection: Installer shall advise Contractor of required procedures for surveillance and protection of flashings and sheet metal work during construction, to ensure that work will be without damage or deterioration, other than natural weathering, at time of substantial completion.

TABLE I SHEET METAL WEIGHTS THICKNESS AND GAUGES

FLASHING	MATERIAL	THICKNESS AND GAUGES
Edge and Rake Flashing	Aluminum	.040
Cricket	Aluminum	.040
Counter Flashing	Aluminum	.040
Rake and Fascia Trim	Aluminum	.040
Hot Vent	Galvanized Steel	18 Gauge
Step Flashing	Aluminum	.040
Pipe Vent	Aluminum/neoprene	Prefabricated Boot

# TABLE II SHEET METAL JOINTS

Edge and Rake Flashing	2" lap joints with plastic cement between edge flashing.
Fascia and Rake Trim	Slip joint with backing plate.

# SECTION 07 92 00 JOINT SEALERS

# PART 1 - GENERAL

### 1.1 RELATED DOCUMENTS

A. Drawings and General Provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

### 1.2 SUMMARY

- A. This Section Includes:
  - 1. Installation of joint sealers for new roofing construction.
- B. Scope: Provide all materials, labor, equipment, and appliances required to complete work of this Section, including, but not necessarily limited to, the following:
  - 1. Cleaning and priming of joints as required by Manufacturers installation instructions.
  - 2. Installation of joint sealants at exterior stone wall panel intersections and wall panel intersections with metal frames.

### 1.3 REFERENCES

- A. ASTM C 321 Standard Test Method for Bond Strength of Chemical-Resistant Mortars.
- B. ASTM C 920 Standard Specification for Elastomeric Joint Sealants.
- C. FS (Federal Specification) TT-S-00227E (COM-NBS) Interim Federal Specification for Sealing Compound: Elastomeric Type, Multi-Component (for Caulking, Sealing, and Glazing in Buildings and Other Structures.
- D. FS (Federal Specification) TT-S-00230C Interim Federal Specification for Sealing Compound: Elastomeric Type, Single Component (for Caulking, Sealing, and Glazing in Buildings and Other Structures.
- E. FS (Federal Specification) TT-S-001543 (COM-NBS) Interim Federal Specification for Sealing Compound: Silicone Rubber Base (for Caulking, Sealing, and Glazing in Buildings and Other Structures.

# 1.4 QUALITY ASSURANCE

- A. Performance: Except as otherwise indicated, joint sealers are required to establish and maintain airtight and waterproof continuous seals on a permanent basis, within recognized limitations of wear and aging as indicated for each application. Failures of installed sealers to comply with this requirement will be recognized as failures of materials and workmanship.
- B. Applicator Qualifications: Contractor and job foreman must have a minimum of five (5) years experience installing sealant.
- C. Pre-Installation Compatibility and Adhesion Tests: Contractor shall be responsible for verifying with sealant manufacturer that all sealants to be used are compatible with and will satisfactorily adhere to all substrates. Tests shall be conducted in the field and witnessed by the Architect or Inspection Agency.
- D. Adhesion Test: During installation, in the presence of, and when and where directed by the Architect or Inspection Agency, conduct pull test on each joint type. Test is to be performed by slicing across the joint and then cutting both sides of the joint two inches, separating the sealant from the adjoining material. The sealant shall then be pulled in the direction of the joint. The sealant should break rather than separate from the adjoining material.

### 1.5 SUBMITTALS

- A. Submit under provisions of Division 1.
- B. Manufacturer's Technical Data, Guides, and Application Procedures

- C. Submit samples illustrating colors.
- D. Submit laboratory tests or data validating product compliance with performance criteria specified.
- E. Submit a copy of the Manufacturer's warranty.

### 1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver products in original factory packaging bearing identification of product, manufacturer, and batch number. Provide Material Safety Data Sheets for each product.
- B. Store products in a location protected from freezing, damage, construction activity, precipitation, and direct sunlight in strict accordance with manufacturer's recommendations.
- C. Condition products to approximately 60 to 70 degrees F (16 to 21 degrees C) for use in accordance with manufacturer's recommendations.
- D. Handle all products with appropriate precautions and care as stated on Material Safety Data Sheet.

### 1.7 PROJECT CONDITIONS

- A. Do not use products under conditions of precipitation or freezing weather. Use appropriate measures for protection and supplementary heating to ensure proper curing conditions in accordance with manufacturer's recommendations if application during inclement weather occurs.
- B. Ensure substrate is dry.
- C. Protect adjacent work from contamination or damage.

### 1.8 WARRANTY

A. Provide manufacturer's twenty-year limited warranty against failure of structural adhesion, staining, and weatherseal.

# **PART 2 - PRODUCTS**

### 2.1 MANUFACTURERS

- A. Single Source: All materials, including joint sealers, cleaners, and primers shall be of a single source manufacturer.
- B. Acceptable Manufacturers:
  - 1. Dow Corning
  - 2. Sika
  - 3. Tremco
  - 4. Approved Equal

### 2.2 MATERIALS

A. One-part, low modulus, elastomeric sealant: *DOW CORNING* 790 Silicone Building Sealant, *SIKA* Sikasil 990 or *TREMCO* Spectrem 1, Conforming to ASTM C920, Type S, Grade 25, Use NT, M, G, A, and O.

### 2.3 ACCESSORIES

- A. Primer: As required by sealant manufacturer.
- B. Joint Cleaner: Non-corrosive and non-staining type recommended by sealant manufacturer and compatible with joint forming materials.
- C. Backer Rod: Open or closed-cell polyethylene rod designed for use with cold-applied joint sealants for on-grade or below-grade applications.
  - 1. Comply with ASTM C 1330.
  - 2. Size required for joint design.

- D. Bond Breaker: Pressure-sensitive tape polyethylene or Teflon recommended by sealant manufacturer.
- E. Masking Tape: Pressure-sensitive paper tape.

### 2.4 COLOR

A. Sealant Colors: Selected by Architect from manufacturer's master color system.

### **PART 3 - EXECUTION**

# 3.1 EXAMINATION

- A. Inspect all areas involved in work to establish extent of work, access, and need for protection of surrounding construction and public spaces.
- B. Conduct pre-application inspection of site verification with an authorized manufacturer's representative.
- C. The drawings generally indicate locations of joint sealers. The contractor shall examine the building prior to bidding to determine the quantity and location of all sealant joints. The contractor shall be responsible for the preparation and replacement of joint sealers in ALL joints whether shown on the drawings or not.

### 3.2 PREPARATION

- A. Remove loose materials and foreign matter which impair adhesion of joint filler.
- B. Clean joints by grinding, sandblasting, or wire brushing to expose a sound surface free of contamination and laitance.
- C. Ensure structurally sound surfaces, dry, clean, free of dirt, moisture, loose particles, oil, grease, asphalt, tar, paint, wax, rust, waterproofing, curing and parting compounds, membrane materials, and other foreign matter.
- D. Prime the bond line using Prime Coat where required by the sealant manufacturer installation instructions or as required for proper adhesion, allowing a minimum of one hour drying and cure time before installing sealant. Primer should be within shelf life and poured from containers onto rags, or into applicator bottles that can be poured onto rags. If brushes are used, primer should be poured a small amount at a time into another open container to avoid contaminating primer and to minimize primer being exposed too long. Pour out no more than can be applied in 30 minutes. If primer becomes cloudy or contaminated, discard. Prime no more substrate than can be sealed in one day or shift.
- E. Where the possibility of joint filler staining of adjacent areas or materials exists, mask joints prior to application.
  - 1. Do not remove masking tape before joints have been tooled and initial cure of joint filler has taken place.
  - 2. Work stained due to failure of proper masking precautions will not be accepted.

### 3.3 INSTALLATION

- A. Solvent clean aluminum and any other non-porous surfaces with recommended solvent using the "Two Cloth Cleaning Method".
- B. Apply primer according to manufacturer's instructions.
- C. Back-Up Material:
  - 1. Install backer rod using blunt or rounded tools to assure uniform depth (+/- 1/8") without puncturing or twisting. Closed cell rod shall be a minimum 20% oversized. Open cell rod shall be a minimum 50% oversized. Install bond breaker tape in shallow joints.
  - 2. Install polyethylene joint filler in joints wider than 1/4 inch (6 mm) to back-up material per manufacturer's recommendations.
- D. Bond Breaker: Install bond-breaker strip in joint to be sealed on top of back-up material to prevent adhesion of sealant to back-up material; install per manufacturer's recommendations.

### E. Sealant:

- 1. Mask or protect adjacent areas that are not to receive sealant.
- 2. Apply sealant in joints using a pressure gun with nozzle cut to appropriate size. Deposit sealant in a uniform and continuous bead with no gaps or air pockets.
- 3. Tool joints to require configuration with a blunt instrument as soon as possible after installation, but before sealant begins to skin over. Remove all masking materials immediately after tooling.
- 4. Apply materials only within manufacturer's specified application life period. Discard sealant after application life is expired or if prescribed application period has elapsed.
- F. Joints shall have a minimum width to depth ratio of 2:1. Finished joint cross section shall have an hourglass shape.

### 3.4 CLEANING

- A. Remove uncured sealant and joint filler with Reducer 990, xylene, toluene, or MEK. Remove cured sealant and joint filler by razor, scraping, or mechanically.
- B. Remove all debris related to application of sealants from job site in accordance with all applicable regulations for hazardous waste disposal.

### 3.5 SCHEDULE OF JOINT SEALERS

- A. General-Purpose Interior and Exterior Applications:
  - 1. Sealant: One Part Silicone Building Sealant
  - 2. Applications: Roof flashing joints and reglets

# SECTION 09 90 00 PAINT AND COATINGS

# PART 1 - GENERAL

### 1.1 RELATED DOCUMENTS

A. Drawings and General Provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

### 1.2 SUMMARY

- A. The following is a general description of the work required by this Section:
  - 1. Exterior priming and painting of new wood trim

### 1.3 SUBMITTALS

A. Product Data: Submit manufacturer's technical information including paint label analysis and application instructions for each material proposed for use. Provide Manufacturer's Material Safety Sheets for each product utilized

### 1.4 DELIVERY AND STORAGE

A. Deliver materials to job site in original, new and unopened packages and containers bearing manufacturer's name and label.

### 1.5 JOB CONDITIONS

A. Environmental Conditions: Apply finishes only when air and surfaces temperatures are between 50 and 90 degrees F., unless otherwise permitted by paint manufacturer's printed instructions. Do not apply finishes in snow, rain, fog, or mist, or when relative humidity exceeds 85%, or to damp or wet surfaces.

### 1.6 GUARANTEE

A. At completion of work provide owner with written guarantee that the contractor will refinish any surface where the finish fails within one year of acceptance.

### 1.7 MAINTENANCE MATERIALS

A. At completion of project, provide owner with one un-opened gallon of each finish used.

# **PART 2 - PRODUCTS**

# 2.1 MATERIAL QUALITY

- A. Utilize Paint manufactured by the following manufacturers:
  - 1. Benjamin Moore and Company (BM)
  - 2. Sherwin Williams Company (SW)
  - 3. Pittsburgh Paint Company (PP)

### 2.2 FINISHING SYSTEMS

A. Exterior Wood Trim and Siding.

Primer (2.1 DFT) - BM Moorwhite Primer, SW A-100 Alkyd Exterior Wood Primer, or equal 2nd coat (1.2 DFT) - BM Moorglo Latex House and Trim, SW A-100 Gloss, A8 Series, or equal 3rd coat (1.2 DFT) - BM Moorglo Latex House and Trim, SW A-100 Gloss, A8 Series, or equal Color: As selected by Architect.

### **PART 3 - EXECUTION**

### 3.1 INSPECTION

- A. General: Applicator must examine areas and conditions under which painting work is to be applied and notify owner in writing of conditions detrimental to proper and timely completion of the work. Do not proceed with work until unsatisfactory conditions have been corrected in a manner acceptable to Applicator. Starting of painting work will be construed as Applicator's acceptance of surfaces and conditions within any particular area.
- B. Surface Conditions: Do not paint over dirt, rust, scale, grease, moisture, scuffed surfaces or conditions otherwise detrimental to formation of a durable paint film.

# 3.2 MATERIALS PREPARATION

A. Mix and prepare painting materials in accordance with manufacturer's directions. Store materials not in actual use, in tightly covered containers. Maintain containers used in storage, mixing and application of paint in a clean condition, free of foreign materials and residue.

### 3.3 APPLICATION

- A. General: Apply paint in accordance with manufacturer's directions. Use applicators and techniques best suited for substrate and type of material being applied.
  - 1. Apply additional coats when undercoats, stains or other conditions show through final coats of paint, until paint film is of uniform finish, color and appearance. Insure that surfaces including, edges, corners, crevices, welds and exposed fasteners receive a dry film thickness equivalent to that of flat surfaces.
  - 2. Sand lightly between each succeeding coat of enamel or varnish.
- B. Scheduling painting: Apply first coat material to surfaces that have been cleaned, pretreated, or otherwise prepared for painting as soon as practicable after preparation and before subsequent surface deterioration. Allow sufficient time between coatings to permit proper drying. Do not recoat until paint has dried to where it feels firm, does not deform or feel sticky under moderate thumb pressure, and application of another coat does not cause lifting or loss of adhesion of the undercoat.
- C. Minimum Coating Thickness: Apply materials at not less than manufacturer's recommended spreading rate, to establish a total dry film thickness as indicated or recommended by coating manufacturer.
- D. Prime Coats: Apply prime coat of material which is required to be painted or finished and which has not been prime coated by others. Recoat primed and sealed surfaces where there is evidence of suction spots or unsealed areas.
- E. Pigmented (opaque) Finishes: Completely cover to provide an opaque, smooth surface of uniform finish, color, appearance and coverage. Cloudiness, "holidays" spotting, laps, brush marks, runs, sags, and other surface imperfections will not be acceptable.

### **DIVISION 9 - FINISHES**

# 3.4 CLEAN-UP AND PROTECTION

- A. Clean-up: During progress of work, remove from size discarded paint materials, rubbish, cans and rags at the end of each day's work. Upon completion of painting work, clean window glass and other paint-spattered surfaces. Remove spattered paint by proper methods of washing and scraping. Use care not to scratch or damage finished surfaces.
- B. Protection: Protect work of other trades, whether to be painted or not, against damage by painting and finishing work. Correct any damage by cleaning, repairing or replacing, and repainting as acceptable to the Architect and at no additional charge to the Owner.
- C. Completion: At the completion of the work of other trades, touch-up and restore all damaged or defaced painted surfaces.

		,

# **SUPPLEMENTARY**

# INSTRUCTIONS TO BIDDERS

# AND

GENERAL CONDITIONS

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# SUPPLEMENTARY INSTRUCTIONS TO BIDDERS AND GENERAL CONDITIONS

The following Supplementary to Instructions to Bidders and General Conditions reinstate, delete, modify or change the Instructions to Bidders and General Conditions of the State of New Jersey, Department of Treasury, Division of Building and Construction, amended January 1995. If no mention is made of an Article, Paragraph or Subparagraph, these clauses remain in force in their entirety.

#### SUPPLEMENTARY INSTRUCTIONS TO BIDDERS

#### GENERAL

All references in the specifications and drawings to the Division of Building & Construction (DBC) shall be changed to Division of Property Management and Construction (DPMC)

#### IB1 Bid Proposals

IB1.1 [Replace the first sentence ONLY with the following:]

Sealed proposals for the work described herein must be received and time-stamped in the Plan Room, Division of Property Management and Construction (DPMC), 9<sup>th</sup> floor, 33 West State Street, P O Box 034, Trenton, NJ 08625-0034. ...

IB1.2 [Delete this paragraph in its entirety and replace with the following:]

Bids may be accepted on the following branches of work, as applicable:

- 1 Lump Sum All Trades
  - 2 General Construction
  - 3 Structural Steel
  - 4 Plumbing
  - 5 Heating, Ventilating and Air Conditioning
  - 6 Electrical
  - 7 Special Categories as may be required
- IB1.8 [Delete this paragraph in its entirety and replace with the following:]

The Prime bidder must include in the bid envelope: (1) the proposal signed by the bidder, (2) the executed affidavit of non-collusion, (3) the executed Source Disclosure Certification Form as further described in section IB1.11, and (4) bid security as further described in section IB6.

# IB1.11 [New] PROCUREMENT REFORM

a. RESTRICTIONS ON POLITICAL CONTRIBUTIONS – In accordance with Public Law 2005, Chapter 51 (formerly Executive Order 134) the apparent low bidder submitting a bid on or after October 15, 2004, shall be required, prior to contract award, to submit a completed and signed Two Year Certification and Disclosure Form together with a completed Ownership Disclosure Form for all Business Entities.

Public Law 2005, Chapter 51 prohibits State departments, agencies and authorities from entering into a contract that exceeds \$17,500 with an individual or entity that has made a contribution to a political party committee. Public Law 2005, Chapter 51 further requires the disclosure of all contributions to any political organization organized under section 527 of the Internal Revenue Code that also meets the definition of a "continuing political committee" within the meaning of N.J.S.A. 19:44A-3(n) and N.J.A.C. 19:25-1.7. The successful bidder shall also be required to adhere to all continuing obligations contained in Public Law 2005, Chapter 51 regarding contributions and disclosures as required in Public Law 2005, Chapter 51.

b. Pursuant to Public Law 2005, Chapter 92, (N.J.S.A. 52:34-13.2 et seq., superseding Executive Order 129(2004)) all bidders submitting a proposal shall be required to complete a Source Disclosure Certification that all services will be performed in the United States. The bidder shall disclose the location by country where services under the contract will be performed and any subcontracting of services under the contract and the location by country where any subcontracted services will be performed. The Source Disclosure Certification will be attached to the bid proposal.

#### IB4 Awards

IB4.5 [New] The successful bidder and all of its subcontractors are required to comply with the requirements of N.J.S.A. 10:5-31 et seq., regarding Equal Employment Opportunity in Public Works Contracts.

#### IB5 Qualification of Bidders

IB5.5 [New] At the time of the bid due date, the bidder and the subcontractors must be registered in accordance with "The Public Works Contractor Registration Act" (N.J.S.A. 34:11-56.48 et seq.) All questions regarding registration shall be addressed to:

Contractor Registration Unit New Jersey Department of Labor Division of Wage and Hour Compliance P O Box 389 Trenton NJ 08625-0389 Telephone: 609-292-9464 FAX: 609-633-8591

IB5.6 [New] In accordance with Public Law 2001, Chapter 134, all contractors and Subcontractors providing goods/services to State agencies and authorities are required to provide the contracting agency or authority with proof of registration with the

Department of Treasury, Division of Revenue. The basic registration process involves the filing of Form NJ-Reg., which can be filed online at www.state.nj.us/njbgs/services.html or by calling (609)292-7077 or (609)292-1730.

# IB6 Deposit and Bid Bond

[Delete this section in its entirety and replace with the following:]

- IB6.1 The Proposal, when submitted shall be accompanied by a Bid Bond satisfactory to the Director, for a sum of not less than fifty percent (50%) of the TOTAL Bid, including alternates if applicable
- IB6.2 The Bid Bond shall be properly filled out, signed, and witnessed.
- IB6.3 The Bid Bond shall be accompanied by a copy of the power of attorney executed by the surety company or companies. The power of attorney shall set forth the authority of the attorney-in-fact who has signed the bond on behalf of the surety company to bind the company and shall further certify that such power is in full force and effect as of the date of the bond.
- IB6.4 If the bidder whose proposal is accepted is unable to provide the performance and payment bonds or fails to execute a contract, then such bidder and the bid bond surety, where applicable, shall be obligated to pay to the State the difference between the amount of the bid and the amount which the State contracts to pay another party to perform the work. The bidder and the surety shall pay, upon demand, the entire amount of the State's difference in cost. Should there be a deficiency in excess of the bid deposit, the bidder shall make immediate payment to the State for any such deficiency. Nothing contained herein shall be construed as a waiver of any other legal remedies that the State may have against the contractor.

#### SUPPLEMENTARY GENERAL CONDITIONS

#### ARTICLE 2 - DIRECTOR

- 2.5 [New] TERMINATION BY THE DIRECTOR FOR CONVENIENCE
- 2.5.1 The Director may, at any time, terminate the Contract in whole or in any part for the State's convenience and without cause when the Director in his sole discretion views termination is in the public interest.
- 2.5.2 Upon receipt of an order of Termination for Convenience, the Contractor shall not proceed with any item of work, which is not specified in the Order of Termination. The Contractor shall complete all items of work specified in the termination order. Such work shall include punch list items and all work necessary to ensure the safety of the public, to properly secure existing work already constructed or partially constructed and to secure the Project site.

This work so ordered shall be performed in accordance with the Contract Documents, and may include items of work not in the original contract. The Contract shall be considered substantially complete upon completion and acceptance of all items of work specified in

the Order, except punch list items. After completion of the punch list items and all documents required by the Contract, the Contract shall terminate upon issuance of a Final Certificate and payment. The Director reserves the right to declare in default a contractor whom fails to carry out the conditions set forth in an Order of Termination for Convenience.

When the State orders termination of the Contract for Convenience, all completed items of work as of that date will be paid for at the Contract price. Payment for partially completed work will be paid for at agreed prices. Items which are eliminated in their entirety by such termination will be paid for only to the extent provided in Paragraph 2.5.3. Payment for new items, if any, will be made either at agreed prices or in accordance with Article 14.

Materials obtained by the Contractor for the Work but which have not been incorporated therein may, at the option of the State, be purchased from the Contractor at actual cost delivered to a prescribed location, or otherwise disposed of as mutually agreed.

Within sixty (60) days of the effective termination date, the Contractor shall submit claims for additional costs actually incurred, not covered above or elsewhere in the Contract. Such claims may include such cost items as reasonable mobilization efforts, overhead expenses attributable to the Work performed, subcontractor costs not otherwise paid for, actual idle labor cost if Work is stopped in advance of the termination date. Costs, which are prohibited under provisions of the Contract and anticipated profits on work not performed, are not allowed.

2.5.3 If acceptable material is ordered by the Contractor for the eliminated item prior to the date of notification of such elimination and if orders for such material cannot be canceled, it will be paid for at the actual cost to the Contractor. In such case, the material paid for becomes the property of the State and the actual cost of any further handling will be paid for. If the material is returnable to the vendor, and if the State so directs, the material shall be returned and the Contractor will be paid for the actual cost or charges made by the vendor for returning the material. The actual costs of handling returned material will be paid for.

The actual costs or charges will be computed in the same manner as if the work were to be paid for as provided in the Contract. However, no profit will be allowed.

#### ARTICLE 4 THE CONTRACTOR

- 4.5.12 [New] Immediately upon receipt of the contract award documents from the Division of Property Management and Construction, the contractor shall notify all utility companies involved regarding utility services required for completion of the Work.
- 4.5.13 [New] The Contractor will establish an approved Silica Health and Safety Program when tasks generating crystalline silica dust are being performed. This program shall include engineering, work practice, and respiratory protection controls to reduce worker exposure to airborne respirable crystalline dust to levels that are as low as reasonably achievable. When tasks are performed that generate airborne crystalline dust, the Contractor will minimize worker exposure to dust by

one, or a combination of the following methods: 1) dust suppression with water, 2) local exhaust ventilation to a high-efficiency dust collector, and/or 3) appropriate respiratory protection devices. The Contractor shall provide a trained, competent person, as defined by OSHA 29 CFR 1926, on site at all times to implement the Silica Health and Safety Program when tasks generating crystalline silica dust are being performed.

### ARTICLE 10 PAYMENTS

- 10.1 Contractor Payment Process
- 10.1.3 [Delete Paragraph 2 under this section in its entirety. Replace with:]

The contractor may, after fifty percent (50%) of the contract work is in place and if such work is proceeding on schedule, apply for a reduction in the amount to be retained by the State for the duration of the contract. Such application must be in writing and accompanied by documentation denoting formal consent of surety to the reduction in retainage. If the Director determines that the contractor's performance has been satisfactory and that the reduction is warranted and appropriate, the State may, with the next progress payment, release any portion of the accumulated retainage in excess of five percent (5%) of the work in place and retain an amount equal to five percent (5%) of the work in place for the duration of the contract. If progress of the work is not maintained in accordance with the approved schedule, the Director may elect to re-institute retainage of ten percent (10%) of the work in place for the duration of the contract.

- 10.1.6 [Strike last sentence only.]
- 10.2.2 [Strike everything after the first sentence and replace with the following:]

No invoice shall be deemed to be formally submitted and received for payment until all dollar amounts and completion percentages for all line items to be included in the invoice have been determined and agreed upon by the State and the contractor.

10.2.4 [Strike and replace with the following:]

For purposes of the State's Prompt Payment of Contractors and Subcontractors Act (N.J.S.A. 2A:30A-1, et seq.:

- a. An invoice will be deemed to have been received by the owner when it is received by the person or entity designated by the State to review and sign the invoice on the State's behalf at the address designated in the pre-construction conference for receipt of invoices. Receipt of an invoice by such person or entity shall commence the running of the 20-day period for formal approval and certification as provided under N.J.S.A. 2A:30A-2(a).
- b. The "billing date" as that term is used in N.J.S.A. 2A:30A-2 shall be the earlier of the date upon which an invoice for payment is approved for payment or 20 days after the invoice is received, per subparagraph "a" above, unless within such 20-day period the invoice is found to be incomplete or otherwise unacceptable and returned to the contractor, with a written explanation of deficiencies

- c. In the event that an invoice is found to be deficient and returned to the contractor, the "billing date" shall be calculated from the date that a corrected invoice is received.
- Payment shall be considered to have been made on the date on which a check for such payment is dated
- e. Payment terms (e.g., "net 20") offered by the contractor shall not govern the State's obligation to make payment
- f. The following periods of time will not be included in the calculation of the due date of any contractor invoice:
  - (1) Any time elapsed between receipt of an improper invoice and its return to the contractor, not to exceed 20 calendar days; or
  - (2) Any time elapsed between the State's return of an improper invoice to the contractor and the State's receipt of a corrected invoice.
- 10.2.5 [New] The Provisions of this Article 10 shall not govern the State's payment obligations nor shall they supersede or modify any other contractual provision allowing the withholding of monies from the contractor to the extent that the contractor has not performed in accordance with the provisions of the contract. Nor shall this Article 10 govern the State's payment obligations nor supersede or modify any other contractual provision governing contractor claims for additional compensation beyond the base contract price and approved change orders.
- 10.3 Interest [Strike and replace with the following:]
- 10.3.1 Interest shall be payable on amounts due the contractor if not paid within thirty (30) calendar days after the billing date specified in the above subparagraph 10.2.4 (f), as provided under the State's Prompt Payment of Contractors and Subcontractors Act (N.J.S.A. 2A:30A-1, et seq.) Interest on amounts due shall be payable to the contractor for the period beginning on the day after the required payment date and ending on the date on which the check for payment is drawn.
- 10.3.2 [New] Interest may be paid by separate payment to the contractor, but shall be paid within 30 calendar days of payment of the principal amount of the approved invoice.
- 10.3.3 [New] Nothing in this Article 10 shall be construed as entitling the contractor to payment of interest on any sum withheld by the State for any reason permitted under the contract or applicable law, or on any claim for additional compensation, over and above sums due under the base contract or approved change orders.
- 10.3.4 [Replace with old paragraph 10.3.9]
- 10.3.5 [Replace with old paragraph 10.3.10]
- 10.4 Miscellaneous [New]
- 10.4.1 Disputes regarding nonpayment of a contractor's invoice under this Article 10 may be submitted to non-biding Alternative Dispute Resolution (ADR) upon mutual agreement of the State and the contractor. In such event, the State and the contractor shall share equally the fees and expenses of the selected mediator, arbitrator, umpire or

other ADR neutral. Provided, however, that nothing herein shall be construed, in whole or in part, as a waiver, release or modification of the provisions of the New Jersey Contractual Act, N.J.S.A. 59:13-1, et seq., as it governs claims against the State.

10.4.2 A contractor not paid sums due under an approved invoice within thirty (30) days of the billing date may suspend performance without penalty for breach of contract, but only after providing the State with seven (7) days written notice of non-payment, and only in the event that the State fails to furnish the contractor, within that seven-day period, with a written statement of the amount withheld and the reasons for the withholding. Nothing herein shall be construed to excuse the contractor's nonperformance, or to limit the State's rights and remedies relating to such non-performance, with regard to any monies withheld from the contractor upon the proper notice provided under this Article 10, or with regard to any contractor claim disputed by the State.

#### ARTICLE 13 INSURANCE AND INDEMNITY

13.2.4 Loss Reporting and Loss Adjustment [Replace the first sentence ONLY with:]

The Contractor will receive a Loss Reporting Form whenever Builders' Risk Insurance is written. This form includes appropriate loss reporting instructions.

In the event of loss, the Contractor shall immediately notify the State of New Jersey, Division of Property Management and Construction, through the Architect/Engineer, in writing, and take any other appropriate steps as may be required under the standard builders' risk insurance policy in effect. ...

### ARTICLE 16 AFFIRMATIVE ACTION REQUIREMENTS

[Strike entire article and replace with the following:]

16.1Policy Statement

The laws of the State of New Jersey (N.J.S.A. 10:5-31 et seq.) provide that no public agency shall award a contract or pay money to any contractor or subcontractor which has not agreed and guaranteed to afford equal employment opportunity in performance of the contract in accordance with an affirmative action program approved by the State Treasurer. The law applies to each political subdivision and agency of the State and includes procurement and service contracts as well as construction contracts.

#### 16.2Mandatory Language

During the performance of this contract, the contractor agrees as follows:

a The contractor or subcontractor, where applicable, will not discriminate against any employee or applicant for employment because of age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex. Except with respect to affectional or sexual orientation and gender identity or expression, the contractor will take affirmative action to ensure that

such applicants are recruited and employed, and that employees are treated during employment, without regard to their age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex. Such action shall include, but not be limited to the following: employment, up-grading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the Public Agency Compliance Officer setting forth provisions of this nondiscrimination clause.

- b The contractor or subcontractor, where applicable will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex.
- c The contractor or subcontractor, where applicable, will send to each labor union or representative of workers with which it has a collective bargaining agreement or other contract or understanding, a notice, to be provided by the agency contracting officer advising the labor union or workers' representative of the contractor's commitments under this act and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
- d The contractor or subcontractor, where applicable, agrees to comply with any regulations promulgated by the Treasurer, pursuant to N.J.S.A. 10:5-31 et seq., as amended and supplemented from time to time and the Americans with Disabilities Act.
- e When hiring or scheduling workers in each construction trade, the contractor or subcontractor agrees to make good faith efforts to employ minority and women workers in each construction trade consistent with the applicable employment goal prescribed by N.J.A.C. 17:27-7.3; provided, however, that the Division may, in its discretion, exempt a contractor or subcontractor from compliance with the good faith procedures prescribed by the following provisions, A, B and C, as long as the Division is satisfied that the contractor or subcontractor is employing workers provided by a union which provides evidence, in accordance with standards prescribed by the Division, that its percentage of active "card carrying" members who are minority and women workers is equal to or greater than the applicable employment goal established in accordance with N.J.A.C. 17:27-7.3. The contractor or subcontractor agrees that a good faith effort shall include compliance with the following procedures:
  - (1) If the contractor or subcontractor has a referral agreement or arrangement with a union for a construction trade, the contractor or

subcontractor shall, within three business days of the contract award, seek assurances from the union that it will cooperate with the contractor or subcontractor as it fulfills its affirmative action obligations under this contract and in accordance with the rules promulgated by the Treasurer pursuant to N.J.S.A. 10:5-31 et. seq., as supplemented and amended from time to time and the Americans with Disabilities Act. If the contractor or subcontractor is unable to obtain said assurances from the construction trade union at least five business days prior to the commencement of construction work, the contractor or subcontractor agrees to attempt to hire or schedule minority and women workers directly, consistent with the applicable employment goal. If the contractor's or subcontractor's prior experience with a construction trade union, regardless of whether the union has provided said assurances, indicates a significant possibility that the trade union will not refer sufficient minority and women workers consistent with the applicable employment goal, the contractor or subcontractor agrees to be prepared to hire or schedule minority and women workers directly, consistent with the applicable employment goal, by complying with the hiring or scheduling procedures prescribed under (B) below; and the contractor or subcontractor further agrees to take said action immediately if it determines or is so notified by the Division that the union is not referring minority and women workers consistent with the applicable employment goal.

- (2) If the hiring or scheduling of a workforce consistent with the employment goal has not or cannot be achieved for each construction trade by adhering to the procedures of (A) above, or if the contractor does not have a referral agreement or arrangement with a union for a construction trade, the contractor or subcontractor agrees to take the following actions consistent with the applicable county employment goals:
  - (a) To notify the public agency compliance officer, the Division, and minority and women referral organizations listed by the Division pursuant to N.J.A.C. 17:27-5.3, of its workforce needs, and request referral of minority and women workers;
  - (b) To notify any minority and women workers who have been listed with it as awaiting available vacancies;
  - (c) Prior to commencement of work, to request that the local construction trade union refer minority and women workers to fill job openings, provided the contractor or subcontractor has a referral agreement or arrangement with a union for the construction trade;
  - (d) To leave standing requests for additional referral to minority and women workers with the local construction trade union, provided the contractor or subcontractor has a referral agreement or

- arrangement with a union for the construction trade, the State Training and Employment Service and other approved referral sources in the area until such time as the workforce is consistent with the employment goal;
- (e) If it is necessary to lay off some of the workers in a given trade on the construction site, to assure, consistent with the applicable State and Federal statutes and court decisions, that sufficient minority and women employees remain on the site consistent with the employment goal; and to employ any minority and women workers laid off by the contractor on any other construction site on which its workforce composition is not consistent with an employment goal established pursuant to rules implementing N.J.S.A. 10:5-31 et. seq.;
- (f) To adhere to the following procedure when minority and women workers apply or are referred to the contractor or subcontractor:
  - (i) If said individuals have never previously received any document or certification signifying a level of qualification lower than that required in order to perform the work of the construction trade, the contractor or subcontractor shall determine the qualifications of such individuals and if the contractor's or subcontractor's workforce in each construction trade is not consistent with the applicable employment goal, it shall hire or schedule those individuals who satisfy appropriate qualification standards. However, a contractor or subcontractor shall determine that the individual at least possesses the requisite skills, and experience recognized by a union, apprentice program or a referral agency, provided the referral agency is acceptable to the Division. If necessary, the contractor or subcontractor shall hire or schedule minority and women workers who qualify as trainees pursuant to these rules. All of the requirements, however, are limited by the provisions of (C) below.
  - (ii) If the contractor's or subcontractor's workforce is consistent with the applicable employment goal, the name of any interested women or minority individual shall be maintained on a waiting list for the first consideration, in the event the contractor's or subcontractor's workforce is no longer consistent with the applicable employment goal.
  - (iii)If, for any reason, said contractor or subcontractor determines that a minority individual or a woman is not qualified or if the individual qualifies as an advanced trainee or apprentice, the contractor or subcontractor shall inform the individual in writing of the reasons for the determination, maintain a copy of

- the determination in its files, and send a copy to the public agency compliance officer and to the Division.
- (g) To keep a complete and accurate record of all requests made for the referral of workers in any trade covered by the contract, on forms made available by the Division and submitted promptly to the Division upon request.
- (3) The contractor or subcontractor agrees that nothing contained in e(2) above shall preclude the contractor or subcontractor from complying with the union hiring hall or apprenticeship policies in any applicable collective bargaining agreement or union hiring hall arrangement, and, where required by custom or agreement, it shall send journeymen and trainees to the union for referral, or to the apprenticeship program for admission, pursuant to such agreement or arrangement. However, where the practices of a union or apprenticeship program will result in the exclusion of minorities and women or the failure to refer minorities and women consistent with the county employment goal, the contractor or subcontractor shall consider for employment persons referred pursuant to e(2) above without regard to such agreement or arrangement; provided further, however, that the contractor or subcontractor shall not be required to employ women and minority advanced trainees and trainees in numbers which result in the employment of advanced trainees and trainees as a percentage of the total workforce for the construction trade, which percentage significantly exceeds the apprentice to journey worker ratio specified in the applicable collective bargaining agreement, or in the absence of a collective bargaining agreement, exceeds the ratio established by practice in the area for said construction trade. Also, the contractor or subcontractor agrees that, in implementing the procedures of e(2) above, it shall, where applicable, employ minority and women workers residing within the geographical jurisdiction of the union.
- (4) After notification of award, but prior to signing a construction contract, the contractor shall submit to the public agency compliance officer and the Division an initial project workforce report (Form AA 201) provided to the public agency by the Division for distribution to and completion by the contractor, in accordance with N.J.A.C. 17:27-7. The contractor also agrees to submit a copy of the Monthly Project Workforce Report once a month thereafter for the duration of this contract to the Division and to the public agency compliance officer.
- f The contractor agrees to cooperate with the public agency in the payment of budgeted funds, as is necessary, for on-the-job and/or off-the-job programs for outreach and training of minorities and women.
- g The contractor and its subcontractors shall furnish such reports or other documents to the Division of Contract Compliance & EEO as may be requested by the Division from time to time in order to carry out the

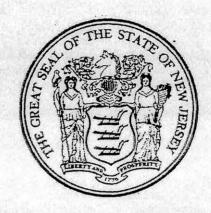
purposes of these regulations, and public agencies shall furnish such information as may be requested by the Division of Contract Compliance & EEO for conducting a compliance investigation pursuant to <u>Subchapter 10 of the Administrative Code (NJAC 17:27)</u>.

# END OF SUPPLEMENTARY INSTRUCTIONS TO BIDDERS AND GENERAL CONDITIONS

State of New Jersey

Department of the Treasury

Division of Property Management & Construction



# AMENDED

**JANUARY 1995** 

# **INSTRUCTIONS TO BIDDERS**

AND

**GENERAL CONDITIONS** 

INSTRUCTIONS TO BIDDERS AND GENERAL CONDITIONS

DATED APRIL 1993

Are hereby superseded

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#### I. INSTRUCTIONS TO BIDDERS

#### Bid Proposals 1B1

IB1.1 Sealed proposals for the work described herein must be received and time-stamped in the Bid Room, Division of Building and Construction (DBC), 8th Floor, Taxation Building, CN 235, West State and Barrack Streets, Trenton, N.J. 08625. The closing date and time for bids will be stated in the Advertisement and Invitation to Bid. Bidders are cautioned that reliance on the U.S. Postal Service or other mail delivery or courier service for timely delivery of proposals is at the bidders' risk. Failure by a bidder to have a sealed proposal reach DBC by the prescribed time will result in a return of the unopened submission.

IB1.2 Bids will be received on the following branches of work, as applicable:

Contract No.

- 1 General Construction
- 2 Structural Steel
- 3 Plumbing 4 Heating, Ventilating and Air Conditioning
- 5 Electrical
- 6 Special categories as may be required

IB1.3 Contractors prequalified by DBC may obtain contract documents at the office of the Division of Building and Construction or upon written request, subject to payment of applicable fees. Each bidder is herewith put on notice that its general classification by DBC is not the sole basis for qualification for the award of work. The Director reserves the right to deny award to any bidder that is not clearly responsible, based upon experience, past performance, financial capability or other material factors, to perform the work required herein.

1B1.4 The schedule of non-refundable bid fees below is based upon individual trade construction cost estimates. Upon request and at no cost, DBC will furnish a set of the contract documents for review in the offices of the division at the address noted in paragraph IB1.1 above.

DBC BID DOCUMENTS FEE SCHEDULE (PER PACKAGE):

TRADE ESTIMATE		DOCUMENT FEE	9.5	MAILING FEE
\$100,000 or less Greater than \$100,000	· ·	No charge \$ 65.00		\$ 10.00

IB1.5 Bid proposals based upon the plans, specifications, general, special and supplementary conditions and bulletins shall be deemed as having been made by the contractor with full knowledge of the conditions therein. Bidders are required to visit the site prior to submitting proposals for the work herein described, and to have thoroughly examined the conditions under which the contract is to be executed, including those reasonably observable conditions of the premises which would hinder, delay, or otherwise affect the performance of the contractor required under the terms of the contract. The State will not allow claims for additional costs as a result of the contractor's failure to become aware of the reasonably observable conditions affecting its required performance. The bidder is required to make appropriate allowances in the preparation of the bid for the accommodation of such conditions. Bidders must warrant in the bid documents that the bidder is familiar with conditions existing at the site at the time the bid is submitted.

- IB1.6 Bid proposals shall be submitted on the standard form provided by DBC, enclosed in a sealed envelope issued by DBC. The name and address of the bidder must be indicated on the envelope, as well as indication of the DBC project number, project location and other appropriate identification.
- 1B1.7 All amounts in the bid documents shall be stated in numerical figures only.
- 181.8 The bidder must include in the bid envelope: (1) the proposal signed by the bidder, (2) the executed affidavit of non-collusion, and (3) bid security as further described in section IB6 hereafter.

- 1B1.9 Proposals shall remain open for acceptance and may not be withdrawn for a period of 60 calendar days after the bid opening date.
- IB1.10 Proposals not submitted and filed in accordance with instructions contained herein and in the Advertisement for Bids may be considered informal and rejected as nonresponsive.

#### IB2 Bid Modification

IB2.1 A bidder may modify its bid proposal by telegram or letter at any time prior to the scheduled closing time for receipt of bids, provided such communication is received by the State prior to such closing time. A written confirmation of any telegraphic modification signed by the bidder must have been mailed and time-stamped by the U.S. Postal Service prior to specified closing time. Such confirmation shall be accompanied by a newly executed affidavit of non-collusion.

IB2.2 Telegraphic communications shall not reveal the basic bid price but shall only provide the amount to be added, subtracted or modified so that the final prices or terms will not be revealed until the sealed proposal is opened. If written confirmation of the telegraphic modification is not received within two working days after the scheduled closing time, no consideration will be given to the telegraphic modification.

IB2.3 Bids may be withdrawn upon receipt of a bidder's written request prior to the time fixed for the bid opening. A bidder's right to withdraw a bid is lost after a bid has been opened. If an error has been made in the bid amount, request for relief from the bid may be made in writing to the Director. The written request shall be signed by an authorized corporate officer. A determination of whether the bidder will be released shall be at the sole discretion of the Director, who shall issue a finding within five working days of receipt of all pertinent information relating to such request for relief.

#### IB3 Consideration of Bids

# IB3.1 Award of Contracts or Rejection of Bids:

- a. Contracts will be awarded to the lowest responsible bidder. The awards will be made, or the bids rejected, within 60 calendar days from the date of the opening of bids.
- b. The Director reserves the right to award the contract on the basis of the single bid for the entire work, or on the basis of a separate bid and alternate, or any combination of separate bids and alternates, which the Director deems best serves the interest of the State.
- c. The Director reserves the right to waive any bid requirements when such waiver is in the best interests of the State, and where such waiver is permitted by law. Such waiver shall be at the sole discretion of the Director.
- d. The Director reserves the right to reject any and all bids when such rejection is in the best interests of the State. The Director also may reject the bid of any bidder which, in the Director's judgment, is not responsible or capable of performing the contract obligations based on financial capability, past performance, or experience. A bidder whose bid is so rejected may request a hearing before the Director by filing a written notice.

IB3.2 The bidder to be awarded the contract shall execute and deliver the requisite contract documents, including payment and performance bonds, within the time specified. Upon the bidder's failure or refusal to comply in the manner and within the time specified, the Director may either award the contract to the next low responsible bidder or re-advertise for new proposals. In either case, the Director may hold the defaulting bidder and its surety liable for the difference between the applicable sums quoted by the defaulting bidder and the sum which the State may be obligated to pay to the contractor which is contracted to perform and complete the work of the defaulting bidder.

#### IB4 Awards

- IB4.1 In executing a contract, the successful bidder agrees to perform the required work in a good and workmanlike manner to the reasonable satisfaction of the Director, and to complete all work within the number of calendar days specified in its contract.
- IB4.2 Successful bidders will be notified of the time and place for the signing of contracts. Key requirements in the conduct of the contract, including, but not limited to, the number of days of performance of the contract, manner and schedule of payments, and other administrative details will be reviewed at the award meeting. The time and place of the first job meeting will be announced at the award meeting.
- IB4.3 The State of New Jersey reserves the right to award the contract upon the basis of a single bid for the entire work, or on the basis of separate bids for each prime trade when the total of the separate bids is less than the single bid. Alternates will be accepted or rejected in numerical sequence as cited in the bid documents and shall not be selected at random except as provided herein. Add alternates and deduct alternates will be specified separately. The State may choose from the add and deduct alternates without priority between the two groups so long as selection within each group is in numerical sequence from the first to the last. This limitation shall not apply, however, to any alternates concerning proprietary items. The Director, with the approval of the Using Agency, may accept alternates out of sequence, provided the Director states the reasons for so doing, in writing, within five working days following the opening of bids.
- IB4.4 Should submission of unit prices be required for specified items of work in bid proposals, they will be considered in the evaluation of bids.

#### IB5 Qualification of Bidders

- IB5.1 If the successful bidder is a corporation not organized under the laws of the State of New Jersey or is not authorized to do business in this State, the awards of the contract shall be conditioned upon the prompt filing by the said corporation of a certificate to do business in this State and complying with the laws of this State in that regard. This filing must be made with the Department of State. No award of contract will be made until the Department of State confirms this authorization.
- IB5.2 The State requires that each contractor, except in the case of a single contractor, shall perform a minimum of 35 percent of the contract work by the contractor's own forces. However, the Director has the sole discretion to reduce this percentage depending upon the nature and circumstances in any particular case, if the Director determines that to do so would be in the best interests of the State, and provided that the bidder submits a written request with the original bid proposal.
- IB5.3 The State reserves the right to reject a bidder at any time prior to the signing of a contract if information or data is obtained which, in the opinion of the Director, adversely affects the responsibility and/or the capability of the bidder to undertake and to complete the work, regardless of the bidder's previous qualification or classification. The State may conduct any investigation as it deems necessary to determine the bidder's responsibility and capacity, and the bidder shall furnish all information and data for this purpose as requested by the State.
- IB5.4 Each bidder must be prequalified by DBC in accordance with the provisions of the classification statute (N.J.S.A. 52:35-1, et seq.). In the case of a single bid for all of the work, the bidder shall include in the bid the names of its principal subcontractors (in categories as listed in IB1.2 above), which must also be classified in accordance with the said statute.

# IB6 Deposit and Bid Bond

IB6.1 Each proposal shall be accompanied by a bid bond or by a certified check, made payable to the State of New Jersey, equal to five percent of the amount of the proposal, as evidence of good faith, which guarantees that if the proposal submitted by the bidder is accepted, the bidder will enter into the contract and furnish the required contract documents and surety bonds. If a bid bond is submitted, it shall also provide that the surety issuing the bid bond be bound to issue the required payment and performance bonds if the bidder is awarded the contract. If the bidder whose proposal is accepted is unable to provide the performance and payment bonds or fails to

execute a contract, then such bidder and the bid bond surety shall be obligated to pay to the State the difference between the amount of the bid and the amount which the State contracts to pay another party to perform the work. The State reserves the right to retain any certified check deposited hereunder as reimbursement for the difference as described above and shall return any unrequired balance to the bidder. Should there be a deficiency in excess of the bid deposit, the bidder shall make immediate payment to the State for any such deficiency. If a bid bond has been submitted, the bidder and the surety shall pay, upon demand, the entire amount of the State's difference in cost. Nothing contained herein shall be construed as a waiver of any other legal remedies that the State may have by reason of a default or breach by the contractor. Certified checks or bonds submitted by unsuccessful bidders will be returned after the contract has been executed. Contractors electing to furnish a bid bond must include Consent of Surety, both in forms acceptable to DBC.

IB6.2 Attorneys-in-fact who sign bid bonds or contract bonds must file a certified power-of-attorney with the State indicating the effective date of that power.

# 1B7 Performance and Payment Bond

IB7.1 The successful bidder shall furnish within ten calendar days after notice of award both a performance bond in statutory form in an amount equal to 100 percent of the total contract price as security for the faithful performance of this contract and a payment bond in statutory form in amount equal to 100 percent of the contract price as security for the payment of all persons and firms performing labor and furnishing materials in connection with this contract. The performance bond and the payment bond may be combined or in separate instruments in accordance with law. No contract shall be executed unless and until each bond is submitted to and approved by the State. The surety must be presently authorized to do business in the State of New Jersey.

IB7.2 The cost of bonds shall be paid for by the contractor.

IB7.3 If at any time the State, for justifiable cause, is dissatisfied with any surety which has issued or proposes to issue a performance or payment bond, the contractor shall, within ten calendar days after notice from the State to do so, substitute an acceptable bond (or bonds). The substituted bond(s) shall be in such form and sum and executed by such other surety or sureties as may be satisfactory to the State. The premiums on such bond(s) shall be paid by the contractor. No contract shall be executed and/or no payment made under a contract until the new surety or sureties shall have furnished such an acceptable bond to the State.

IB7.4 Bonds must be legally effective as of the date the contract is signed. Each must indicate the contractor's name exactly as it appears on the contract. Current attorney-in-fact instruments and financial statement of the surety must be included with the bonds. Bonds must be executed by an authorized officer of the surety. Bonds furnished under this section shall conform in all respects to the requirement and language of N.J.S.A. 2A:44-143 to 147.

# IB8 Bulletins and Interpretations

IB8.1 No interpretation of the meaning of the plans, specifications or other pre-bid documents will be provided to any bidder unless such interpretation is made in writing to all prospective bidders prior to the opening of bids. Any such interpretations must be identified in bid proposals submitted. Any interpretations which are not entered in accordance with this provision shall be unauthorized and not binding upon the State.

IB8.2 Every request for an interpretation relating to clarification or correction of the plans, specifications, or other bid documents must be made in writing, addressed to the architect/engineer and the DBC Director, and must be received at least five working days prior to the date fixed for the opening of the bids. Any and all interpretations, clarifications or corrections and any supplemental instructions must be issued by the Director in the form of written bulletins and mailed by certified mail, return receipt requested, or by telegraphic notice to all prospective bidders not later than three working days prior to the date of the opening of bids. All bulletins issued shall become part of the contract documents and shall be acknowledged in all bid proposals. Failure of a bidder to acknowledge receipt of all such bulletins and interpretations by the time of bid opening shall result in its proposal being considered nonresponsive, at the option of the Director.

IB8.3 Each bidder shall be responsible for thoroughly reviewing the contract documents prior to the submission of bids. Bidders are advised that no claim for expenses incurred or damages sustained on account of any error, discrepancy, omission, or conflict in the contract documents shall be recognized by the State unless, and only to the extent that, a written request for interpretation, clarification or correction has been submitted in compliance with section IB8.2 and provided the matter has not been addressed by the State through the issuance of a bulletin interpreting, clarifying or correcting such error, discrepancy, omission or conflict.

#### IB9 Assignments

IB9.1 The contractor shall not assign all or any part of this contract without written consent of the State. Money due (or to become due) the contractor hereunder shall not be assigned for any purposes whatsoever.

#### 1810 Federal Excise Taxes and State Sales Tax

IB10.1 In general, bidders, in preparing bids, must take into consideration applicable Federal and State tax laws.

IB10.2 Under Chapter 32 of the Internal Revenue Code, an exemption certificate must be on file with the Director of the Division of Purchase and Property (Number 22-75-005).

IB10.3 Materials, supplies or services for exclusive use in erecting structures or buildings or otherwise improving, altering or repairing all State-owned property are exempt from the State sales tax.

IB10.4 Bidders must determine the current status and applicability of any tax laws, and the contractor may make no claim based upon any error or misunderstanding as to the applicability of any tax laws.

IB10.5 Purchases or rentals of equipment are not exempt from any tax under the State Sales Tax Act.

#### **IB11** Restrictive Specifications

IB11.1 Should arry bidder determine before the bid due date that any portion of the specifications or drawings specify a particular product which can be provided by only one supplier or manufacturer, with the result that competitive prices are not available, the bidder shall immediately notify the Director in writing of such fact.

IB11.2 If such notice is not given in a timely manner, it shall be assumed that the bidder has included the estimate of such sole source in the bid. However, if the Director is notified in a timely manner of the sole source of supply or manufacture, the Director may order the product re-bid or take other lawful action.

#### IB12 Offer of Gratuities

IB12.1 Bidders are advised that the laws of New Jersey (N.J.S.A. 52:34-19) make it a misdemeanor to offer, pay or give any fee, commission, compensation, gift or gratuity to any person employed by the State. Also, Executive Order #189 (1988) requires that all requests for proposals and contracts issued by the State specify prohibitions on vendor (contractor) activities, the violation of which shall render the vendor liable to ineligibility for State contracts, pursuant to the debarment procedures set forth in N.J.A.C. 17:19-3.1 et seq. These prohibited activities include the following:

a. No vendor shall pay, offer to pay, or agree to pay, either directly or indirectly, any fee, commission, compensation, gift, gratuity, or other thing of value of any kind to any State officer or employee or special State officer or employee, as defined by N.J.S.A. 52:13D-13b. and e., in the Department of the Treasury or any other agency with which such vendor transacts or offers or proposes to transact business, or to any member of the immediate family, as defined by N.J.S.A. 52:13D-13i., of any such officer or employee, or any partnership, firm, or

- corporation with which they are employed or associated, or in which such officer or employee has an interest within the meaning of N.J.S.A. 52:13D-13g.
- b. The solicitation of any fee, commission, compensation, gift, gratuity or other thing of value by any State officer or employee or special State officer or employee from any State vendor shall be reported in writing forthwith by the vendor to the Attorney General and the Executive Commission on Ethical Standards.
- c. No vendor may, directly or indirectly, undertake any private business, commercial or entrepreneurial relationship with, whether or not pursuant to employment, contract or other agreement, express or implied, or sell any interest in such vendor to, any State officer or employee or special State officer or employee having any duties or responsibilities in connection with the purchase, acquisition or sale of any property or services by or to any State agency or any instrumentality thereof, or with any person, firm or entity with which he is employed or associated or in which he has an interest within the meaning of N.J.S.A. 52:13d-13g. Any relationships subject to this provision shall be reported in writing forthwith to the Executive Commission on Ethical Standards, which may grant a waiver of this restriction upon application of the State officer or employee or special State officer or employee upon a finding that the present or proposed relationship does not present the potential, actuality or appearance of a conflict of interest.
- d. No vendor shall influence, or attempt to influence or cause to be influenced, any State officer or employee or special State officer or employee in his official capacity in any manner which might tend to impair the objectivity or independence of judgment of said officer or employee.
- e. No vendor shall cause or influence, or attempt to cause or influence, any State officer or employee or special State officer or employee to use, or attempt to use, his official position to secure unwarranted privileges or advantages for the vendor or any other person.
- f. The provisions cited above in paragraphs IB12.1a. through e. shall not be construed to prohibit a State officer or employee or special State officer or employee from receiving gifts from or contracting with vendors under the same terms and conditions as are offered or made available to members of the general public subject to any guidelines the Executive Commission on Ethical Standards may promulgate under paragraph IB12.1c. above.

#### I. GENERAL CONDITIONS

#### ARTICLE 1

### CONTRACT DOCUMENTS

#### 1.1 Definitions

For the purpose of this contract:

- 1.1.1 <u>Administration</u>: As used in this contract shall mean the General Services Administration in the Department of the Treasury, State of New Jersey.
- 1.1.2 Administrator: As used in this contract shall mean the General Services Administrator.
- 1.1.3 <u>Architect/Engineer</u>: The architectural or the engineering (A/E) consultant engaged by the State to act as the authorized representative of the contracting officer.
- 1.1.4 Where "as shown," "as indicated," "as detailed," or words of similar import are used, it shall be understood that the reference is made to the drawings accompanying this contract unless stated otherwise. The word "provided" as used herein shall be understood to mean "provided complete in place," that is, "furnished and installed."
- 1.1.5 <u>Bulletin</u> or <u>Addendum</u>: A document, issued by DBC prior to opening of bids, which supplements, revises or modifies the solicitation document(s) furnished for bidding purposes.
- 1.1.5 Change Order Request: A request for equitable adjustment made by the contractor in response to written direction by the contracting officer pursuant to article 14 entitled "Changes to Contract."
- 1.1.7 <u>Claims</u>: Differences between the State and a contractor concerning extra work, alleged errors or omissions in the specifications or drawings, unreasonable delays, damages to work, informal suspensions or interferences by State personnel, and like matters.
- 1.1.8 Contract Documents: This contract, together with any plans, drawings, specifications or other documents which are attached hereto or incorporated herein by reference, together with any such plans, drawings, specifications, schedules, or other documents which may be produced pursuant to or derived from this contract and which are intended to bind the contractor hereunder.
- 1.1.9 Contract Limit Lines: Refers to those lines shown on the contract drawings which limit the boundaries of the project, and beyond which no construction work or activities shall be performed by the contractor unless otherwise noted on the drawings or specifications.
- 1.1.10 Contract Line Item Number (CLIN): A specifically described unit of work for which a price is provided in this contract.
- 1.1.11 <u>Contractor</u>: The person or persons, partnership or corporation named as contractor in this contract, operating as an independent contractor and not as an agent of the State in the performance of its functions. Whether referred to as "contractor," "prime contractor," "prime," "separate contractor," or "single contractor," it shall be understood to mean contractor. It does not include suppliers or materialmen.
- 1.1.12 <u>DBC</u>: The abbreviation for the Division of Building and Construction, Department of the Treasury, State of New Jersey.
- 1.1.13 <u>Department</u>: As used in this contract shall mean the Department of the Treasury, State of New Jersey.
- 1.1.14 <u>Director</u>: The Director of the Division of Building and Construction, who is authorized to administer the design, engineering and construction of all State buildings and facilities. The Director is the contracting officer representing the State personally or through authorized

representatives in all relationships with contractors, consultants and architect/engineers. This includes a duly appointed successor or an authorized administrative contracting officer acting within the limits of his or her authority. The Director is the interpreter of the conditions of the contract and the judge of its performance. The Director shall not take arbitrary positions benefiting either the State or the contractor, but shall use the powers specified under the contract to enforce its faithful performance by both.

- 1.1.15 Wherever in the specifications or upon the drawings the words "directed," "required," "ordered," "designated," "prescribed," or words of like import are used, it shall be understood that the "direction," "requirement," "order," "designation," or "prescription" of the Director is intended. Similarly, the words "approved," "acceptable," "satisfactory," or words of like import shall mean "approved by," or "acceptable to," or "satisfactory to" the Director unless otherwise expressly stated.
- 1.1.16 <u>General Construction Contractor</u>: Either the contractor for general construction whenever separate prime contractors are involved in a project, or the sole contractor if there are no other prime contractors involved.
- 1.1.17 Notice: A written directive or communication served on the contractor to act or perform work or carry out some other contractual obligation. It shall be deemed to have been duly served if delivered to an individual or member of the firm or entity or to an officer of the corporation for whom it was intended. This includes delivery by courier or registered or certified mail or telegram to the business address cited in the contract documents.
- 1.1.18 Plans: Any drawings or reproductions thereof pertaining to the details of the work contemplated by this contract.
- 1.1.19 Project: A general term for identification of the total contract. It includes the work and all administrative aspects required to fully satisfy the contract requirements.
- 1.1.20 <u>Public Contract</u>: Any contract or agreement entered into by the State of New Jersey or any instrumentality of the State to purchase goods, services, or both.
- 1.1.21 Site, Construction Site or Project Site refers to the geographical area of the entire State facility or property at which the work under the contract is to be performed.
- 1.1.22 Specifications: All written agreements, instructions or other documents in or pursuant to this contract pertaining to the method of performing the work and the results to be obtained.
- 1.1.23 State, Owner, Agency of the State or Division of Building and Construction (DBC) means the State of New Jersey.
- 1.1.24 <u>Subcontractor</u>: The person or persons, partnership, or corporation that enters into a contract with the contractor for the performance of work under this contract, or the subcontractors of any tier of such individual or corporation.
- 1.1.25 <u>Substantial Completion</u>: The date the building or facility is operational or capable of serving its intended use even though all permanent installations are not in place. The determination as to the date of substantial completion shall be made pursuant to article 8.3 of these General Conditions.
- 1.1.26 <u>Systems Assurance</u>: The totality of all quality control and assurance requirements specified in the contract documents.
- 1.1.27 <u>Unit Schedule Breakdown</u>: A detailed list of the work activities required for project construction, other elements associated with fulfilling the requirements of the contract (bonds, insurance, etc.), major items of material or equipment, and the prices associated with them.
- 1.1.28 Using Agency: The State agency for which the project is being undertaken.
- 1.1.29 Work: All construction efforts required by the contract documents, including the work and all supervision, labor, material and equipment necessary to complete such construction.

#### 1.2 Intent of the Contract

- 1.2.1 The drawings and specifications of the contract are intended to require the contractor to provide for everything reasonably necessary to accomplish the proper and complete finishing of the work. All work and materials included in the specifications and not shown on the drawings, or shown on the drawings and not in the specifications, shall be performed and/or furnished by the contractor as if described in both. Any incidental materials and/or work not specified in the drawings and/or the specifications which is, nevertheless, necessary for the true development thereof and reasonably inferable therefrom, the contractor shall understand the same to be implied and required, and shall perform all such work and furnish all such materials as if particularly delineated or described therein. Should there be an obvious error or omission in the drawings or specifications, it shall be the contractor's responsibility to complete the work as reasonably required, consistent with the intent of such drawings and specifications as may be interpreted by the Director.
- 1.2.2 Each contractor shall abide by and comply with the true intent and meaning of the drawings, the specifications and other contract documents taken as a whole, and shall not avail itself of any unintentional error or omission, should any exist. Should any error, omission or discrepancy appear or should any doubt exist, or any dispute arise as to the true intent and meaning of the drawings, specifications or other contract documents, or should any portion thereof be obscure, or capable of more than one interpretation, the contractor shall immediately notify the architect/engineer and seek correction or interpretation thereof prior to commencement of affected work. The architect/engineer shall issue a written interpretation with reasonable promptness. However, the contractor shall make no claim against the State for expenses incurred or damages sustained on account of any error, discrepancy, omission, or conflict in the contract documents unless and only to the extent that the contractor has submitted a written request for interpretation, clarification, or correction to the architect/engineer and the Director, and such written request has been received by the architect/engineer and the Director at least five working days prior to the date fixed for the opening of bids. In addition, such claim shall only be recognized by the State if the matter raised by the written request has not been addressed by the State through the issuance of a bulletin interpreting, darifying, and/or correcting such error, discrepancy, omission or conflict. In case of dispute, the matter shall be referred to the Director for a decision.
- 1.2.3 Each and every provision required by law to be inserted in the contract documents shall be deemed to have been inserted therein. If any such provision has been omitted or has not been correctly inserted, then upon application of either party, the contract shall be physically amended to provide for such insertion or correction.
- 1.2.4 The organization of the specifications into divisions, sections and articles, and the arrangement of drawings shall not be construed by the contractor as being intended to divide or allocate the work among subcontractors in any manner or to establish the extent of the work to be performed by any trade.
- 1.2.5 Unless otherwise provided in the contract documents, the Director will furnish to each contractor free of charge three copies of the drawings and specifications, and additional instructions by means of supplemental drawings as otherwise necessary for the proper execution of the work. Upon request, additional drawings will be furnished at the contractor's expense.
- 1.2.6 The contractor shall do no work without proper drawings and instructions, unless written authorization to proceed from the Director is received by the contractor. In giving such additional instructions, the Director may make minor changes in the work, not involving extra cost.
- 1.2.7 All drawings referred to, and any supplementary details as may be furnished and approved from time to time as the work progresses, are understood as being included as part of the contract to which they relate.
- 1.2.8 The sequence of precedence pertaining to interpretation of contract documents is as follows:
  - a. Executed Contract
  - b. Addenda/Bulletins/Instructions

c. Supplemental General Conditions

- d\_Specifications, including General Conditions
- e. Drawings, in the following order of precedence:
  - (1) Notes on drawings
  - (2) Large scale details
  - (3) Figured dimensions
  - 4) Scaled dimensions

Where there may be a conflict in the specifications or drawings not resolvable by application of the provisions of this paragraph, then the more expensive labor, materials, or equipment shall be assumed to be required and shall be provided by the contractor.

1.2.9 On all work involving alterations, remodeling, repairs or installation within existing buildings, it shall be the responsibility of each contractor, by personal inspection of the existing building, facility, plant or utility system, to ascertain the accuracy of any information given which may affect the quantity, size and/or quality of materials required for a satisfactorily completed contract, whether or not such information is indicated on the drawings or included in the specifications. All contractors shall include the costs of all material and labor required to complete the work based on reasonably observable conditions.

#### ARTICLE 2

#### DIRECTOR

# 2.1 Director's Right to Stop the Work

2.1.1 If the contractor fails to correct defective work or persistently fails to carry out the work in accordance with the contract documents, the Director or the Director's authorized representative may order the contractor to stop the work, or any portion thereof, until the cause for such order has been eliminated. Stoppage of the work of one or more contractors, however, shall not render the State liable for claims of any kind, including delays sustained by one contractor as the result of the stoppage of the work of another contractor.

# 2.2 Director's Right to Terminate

- 2.2.1 If the contractor persistently or repeatedly refuses or fails, except in cases for which extension of time is provided, to supply enough properly skilled workers or proper materials so as to avoid or eliminate delays in the orderly progress of the work in accordance with the approved schedule; if the contractor fails to make prompt payment to subcontractors or for materials or labor; or persistently disregards laws, ordinances, rules, regulations or orders of any public authority having jurisdiction; or if the contractor or any of its subcontractors is guilty of a substantial violation of a provision of the contract documents or otherwise defaults or neglects to carry out the work in accordance with the contract documents, then the Director may, without prejudice to any right or remedy, and after giving the contractor and its surety three working days written notice to forthwith commence and continue correction of such default or neglect with diligence and promptness, terminate the employment of the contractor by the issuance of a written notice to that effect to the contractor and its surety should both or either of them fail to comply with the demands of the original above-mentioned three day notice.
- 2.2.2 Upon such termination, the Director may take possession of the site and of all the materials, equipment, and tools on the site, and may finish the work by whatever method the Director may deem expedient. In such case, the contractor shall not be entitled to receive any further payment until the work is finished. The person or firm designated to carry out such work will be paid as authorized by the Director, without entailing any personal liability upon the officers of the State issuing certificates or making such payments.
- 2.2.3 If the unpaid balance of the contract sum exceeds the cost of finishing the work (including liquidated damages for delays and all consequential damages sustained by the State originating from such breach of contract), such excess shall be paid to the contractor. If such costs exceed the unpaid balance, the contractor and/or its surety shall pay the difference to the Department of the Treasury promptly upon receipt of billing from the State, and this obligation shall survive the termination of the contract.
- 2.2.4 If, within three working days following receipt of Notice of Termination by the contractor's surety (the issuer of the performance and payment bonds), the said surety exercises its right to take over the work and expeditiously commences to prosecute the same to completion, the Director shall permit the surety to do so under the following terms and conditions:
  - a. Evidence of the surety's intention to take over and complete the contract shall be in writing over the signature of an authorized representative and served upon the Director within three working days after receipt by the surety of the Notice of Termination.
  - b. The execution of a written agreement by the Director, between the State and the surety, whereby the latter undertakes and assumes the obligation to complete the balance of the work of its defaulting contractor in accordance with the terms and conditions of the Director-Contractor agreement, is to be performed by a substituted contractor satisfactory to the Director at the surety's sole cost and expense. Provision for payments to the surety or to the substituted contractor of unpaid contract balances, if any, then in the hands of the State.
  - c. The said agreement shall also expressly provide that the surety shall not be

- relieved from any of its obligations under the performance and payment bonds, and that it furnish the State with an additional performance and payment bond to secure the faithful performance of the substituted contractor.
- d. All current obligations for labor and materials incurred and outstanding by the defaulting contractor on this project shall be paid without delay, subject to allowance of reasonable time to verify such claims by the surety.
- e. The parties expressly understand and agree that this agreement is without prejudice and is subject to such rights and remedies as either party (including the contractor) may elect to assert after final completion and acceptance of the work.

# 2.3 Director's Representation

2.3.1 The Director will be represented on the construction site by DBC engineers and project inspectors or other designated representatives. This technical staff will conduct on-site inspections, maintain logs of construction progress and problems encountered, review and process contractors' invoices including stored materials on site, attend job meetings, serve as liaison between the architect/engineer and contractors, prepare and submit reports on special problems associated with the job, evaluate and process change orders, and generally remain fully cognizant and informed by the contractors of every aspect of ongoing construction. The Director's representatives have only those duties which are required of an owner, responsibility for completion of this project, pursuant to the contract documents, remains that of the contractor(s).

# 2.4 Review of Contractor Claims and Disputes

2.4.1 Upon presentation by the contractor of a request in writing, the Director may review any decision or determination of the State or the architect/engineer as to any claim, dispute or any other matter in question relating to the execution or progress of the work or the interpretation of the contract documents. Consistent with the intent of this contract, the Director may schedule a conference for the purpose of settling or resolving such claims, disputes or other matters. Where such a conference is conducted, the contractor shall be afforded the opportunity to be heard on the matter in question. Following review of the contractor's request, the State and the contractor may settle or resolve the disputed matter, provided however that any such settlement or resolution shall be subject to all requirements imposed by law, including where applicable, the New Jersey Contractual Liability Act (N.J.S.A. 59:13-1 et seq.).

#### ARTICLE 3

# ARCHITECT/ENGINEER

# 3.1 The Architect/Engineer

3.1.1 When the State provides full supervision and management of a project, the architect/engineer's role is that of consultant to DBC.

#### 3.2 Administration of the Contract

- 3.2.1 The architect/engineer will provide a certain portion of the administration of the contract as hereinafter described.
- 3.2.2 The architect/engineer will monitor the execution and progress of the work and will immediately notify the Director of any related problems. The architect/engineer will at all times be provided access to the work. The general construction contractor shall provide facilities for such access so as to enable the architect/engineer to perform its functions under the contract documents.
- 3.2.3 The architect/engineer will not be responsible for, nor have control or charge of, construction means, methods, techniques, sequences of procedures, or safety precautions and programs in connection with the work. The architect/engineer will not be responsible for, nor have control or charge of, the acts or omissions of the contractors, subcontractors, or any of their agents or employees, or any other person performing any of the work, but shall have the obligation to immediately inform the Director of any inadequate performance of the project.
- 3.2.4 The architect/engineer will recommend rejection of work which it believes does not conform to the contract documents. Whenever the architect/engineer considers it necessary or advisable, it may request the Director to provide special inspection or testing of the work, whether or not such work has been fabricated, installed or completed.
- 3.2.5 The architect/engineer will review, approve or take other appropriate action relating to contractors' submittals, such as shop drawings, product data and samples, to assure conformance with the design requirements and the plans and specifications of the work. Such actions shall be taken with reasonable promptness. Approval of a specific item shall not indicate approval of an assembly of which the item is a component.
- 3.2.6 The architect/engineer will periodically review the contractors' as-built drawings to ensure that they are up to date.

#### 3.3 Inspections - Substantial and Final Completion

3.3.1 The architect/engineer, accompanied by the contractor and the Director's authorized representative, will conduct site inspections to determine the dates of substantial and final completion and will receive and compile written warranties and all other requisite documents assembled and supplied by the contractor. The architect/engineer will forward these documents to the Director for review and certify final contract acceptance.

# ARTICLE 4

# THE CONTRACTOR

# 4.1 Review of Contract

- 4.1.1 The contractor has the duty to do the following: to thoroughly examine and become familiar with all the contract documents, including but not limited to the complete set of drawings and specifications of the entire project; to note cases where it is specified that certain work or materials or both are to be omitted by one contractor and to be furnished or installed by another; to carefully examine the site; to investigate and accurately determine the nature and location of the work, the current equipment, labor and material conditions, and all matters which may in any way affect the work or its performance. The contractor is responsible to check and verify reasonably observable conditions outside the contract limit lines to determine whether any conflict exists with the work the contractor is required to perform under the contract. This includes a check on elevations, utility connections and other site data. As a result of such examination and investigation, the contractor warrants and represents the full understanding of the intent and purposes of the contract documents and the contractor's obligation thereunder and that the contractor accepts responsibility for, and is prepared to execute and fulfill completely, by its construction work, the intent of the contract, without exception and without reservation, at the price specified in the contract.
- 4.1.2 The contractor shall carefully study and compare the contract documents during the progress of the work and shall immediately report any error, inconsistency or omission to DBC upon discovery. The contractor shall immediately report any error, inconsistency or ambiguity detected during the course of the project to the State, and shall not continue with any work which may be affected by such error until the State has had the opportunity to respond to and clarify the work it wants performed in view of this information. Wherever any error, inconsistency or omission appears, it shall be disposed of pursuant to appropriate procedures set forth elsewhere herein.
- 4.1.3 Unless otherwise ordered in writing by the Director, the contractor shall perform no portion of the work without approved change orders, approved shop drawings, samples, or other approvals as may be applicable and required by the contract documents.
- 4.1.4 Unless otherwise provided in the contract documents, the contractor shall provide and pay for all labor, equipment, materials, tools, construction equipment and machinery, water, heat, utilities, transportation and other facilities and services necessary for the proper execution and completion of the work, whether or not incorporated or to be incorporated in the work.
- 4.1.5 The contractor shall at all times enforce strict discipline and good order among its employees and shall not employ on the work any unfit person or anyone not skilled in the task assigned to him.
- 4.1.6 The contractor shall be obligated to pay the prevailing wage rates set forth in the specifications and shall abide by the requirements of the State's Affirmative Action Program. The contractor also shall be responsible to ensure that all principles of safety are carried out, as detailed in article 12 of this document.

# 4.2 New Jersey Prevailing Wage Act

- 4.2.1 Each contractor and subcontractor shall comply with the New Jersey Prevailing Wage Act Laws of 1963, Chapter 150, (N.J.S.A. 34:11-56.25 et seq.) and all amendments thereto, and this act is hereby made a part of every contract entered into on behalf of the State of New Jersey through the Division of Building and Construction, except those contracts which are not within the contemplation of the act. Provisions of the act include the following stipulations and requirements:
  - a. All workers employed in the performance of every contract in which the contract sum is in excess of \$2,000 and to which the Division of Building and Construction is a party shall be paid not less than the prevailing wage rate as designated by the Commissioner, Department of Labor or his or her duly authorized representative.

- (1) Each contractor and subcontractor performing public work for the Division of Building and Construction on behalf of the Department of the Treasury, and which is subject to the provisions of the Prevailing Wage Act, shall post the prevailing wage rates for each craft and classification involved as determined by the Commissioner, Department of Labor. This posting shall include the effective date of any changes thereof, and shall be displayed in prominent and easily accessible places at the site of the work or at such place or places as are used by the contractor/subcontractor to pay workers' wages.
- (2) The contractor's signature on the proposal is its guarantee that neither the contractor nor any of its subcontractors is currently listed or on record by the Commissioner, Department of Labor, as one that has failed to pay the prevailing wages according to the Prevailing Wage Act.
- b. In the event it is found that any worker, employed by any contractor or subcontractor covered by any contract in excess of \$2,000 for any public work to which the Division of Building and Construction is a party, has been paid a rate of wages less than the prevailing wage required by such contract, the Director of the Division of Building and Construction may terminate the contractor's or subcontractor's right to proceed with the work, or such part of the work as to which there has been failure to pay required wages, and may otherwise prosecute the work to completion.
- c. Nothing contained in the Prevailing Wage Act shall prohibit the payment of more than the prevailing wage rate to any worker employed on a public work.

# 4.3 Supervision and Construction Procedures

- 4.3.1 The contractor shall supervise and direct the work as skillfully and attentively as possible. The contractor shall be solely responsible for all construction means, methods, techniques, sequences and procedures and for coordinating all portions of the work under the contract.
- 4.3.2 The contractor shall employ a full-time competent superintendent and necessary foremen and assistants, who shall be in attendance on the project site during the progress of the work. The superintendent shall represent the contractor, and all communications given to the superintendent shall be as binding as if given to the contractor. Important communications shall be confirmed in writing. The State reserves the right to require a change in superintendent if the superintendent's performance, as judged by the Director, is deemed to be inadequate. Upon application in writing to the Director, this requirement for a full-time superintendent may be waived by the Director should the Director determine that such staffing is not required by the State.
- 4.3.3 Each contractor shall employ qualified competent craftsmen in their respective lines of work.
- 4.3.4 The various subcontractors shall likewise have competent superintendents and/or foremen in charge of their respective portions of the work at all times. They shall not employ a person unfit or unskilled in the assigned area of work. If it should become apparent that a subcontractor does not have its portion of the work under control of a competent foreman, the responsible prime contractor shall have the obligation to take appropriate steps to immediately provide proper supervision.
- 4.3.5 If, due to a trade agreement, standby personnel are required to supervise equipment installation or for any other purpose during the normal working hours of other trades, the contractor normally required to provide the standby services shall evaluate and include the costs thereof in its bid price and shall provide said services without additional charge.

#### 4.4 Responsibility for the Work

4.4.1 The contractor shall be responsible to the Director and to any separate contractors having a contract with the State on this project, for the acts and omissions of its employees,

subcontractors and their agents and employees which injure, damage or delay such other contractors in the performance of their work. This responsibility is not limited by the applicable provisions stated elsewhere in this document, but is in conjunction with and related to these provisions.

- 4.4.2 Each contractor shall be responsible for all damage or destruction caused directly or indirectly by its operations to all parts of the work, both temporary and permanent, and to all adjoining property.
- 4.4.3 Each contractor shall, at its own expense, protect all finished work liable to damage and keep the same protected until the project is completed and accepted. In the case of substantial completion accompanied by beneficial occupancy by the State, the contractor's obligation to protect its finished work shall cease simultaneously with the occupancy of the portion or portions of the structure.
- 4.4.4 Each contractor shall defend, protect, indemnify and save harmless the State from all claims, suits, actions, damages and costs of every name and description arising out of or resulting from the performance of the contractor's work under this contract. This responsibility is not limited by the provisions of other indemnification provisions included elsewhere in this document.
- 4.4.5 In order to protect the lives and health of its employees, the contractor shall comply with all applicable statutes and pertinent provisions of the "Manual of Accident Prevention in Construction" issued by the Associated General Contractors of America, Inc. and shall maintain accurate records of all cases of death, occupational disease, and injury requiring medical attention or causing loss of time from work arising out of and in the course of employment on work under the contract. The contractor alone shall be responsible for the safety, efficiency, and adequacy of its plant, appliances and methods, and for any damage or injury which may result from the contractor's failure or improper construction, maintenance or operation.

#### 4.5 Permits - Laws - Regulations

- 4.5.1 Unless otherwise provided in the contract documents, the contractor shall secure and pay for all permits and governmental fees, licenses and inspections necessary for the proper execution and completion of the work, and which are legally required at the time of receipt of bids.
- 4.5.2 All general construction, plumbing and electrical work is to be done in accordance with the New Jersey Uniform Construction Code. No work requiring inspections and approval of construction code officials is to be covered or enclosed prior to inspection and approval by appropriate code enforcement officials.
- 4.5.3 The work under this contract is exempt from local ordinances, codes and regulations as related to the building and the site on which it is located, except where construction could adversely affect adjacent property, public sidewalks and/or streets. The contractor shall coordinate its activities with municipal and/or highway authorities having appropriate jurisdiction.
- 4.5.4 Soil conservation measures are to be in accordance with County Soil Conservation District requirements.
- 4.5.5 All sewage disposal work shall conform with the regulations of the State's Department of Environmental Protection and Energy.
- 4.5.6 The State will engage and pay for all code inspection; however, it is each contractor's responsibility to request inspections in a timely manner.
- 4.5.7 The State, upon the contractor's request, will name the inspector/inspection agency responsible for code enforcement at the time of project award. A Certificate of Electrical Code Compliance is to be obtained from the electrical code inspector prior to the issuance of the Certificate of Final Acceptance for electrical work.
- 4.5.8 Consistent with section 4.4.4 of this document, each contractor shall be responsible for

and save harmless the State from all fines, penalties or loss incurred for, or by reason of, the violation of any municipal ordinance or regulation or law of the State while the said work is in progress.

- 4.5.9 All contractors shall comply with the Federal Occupational Safety and Health Act of 1970 and all of the rules and regulations promulgated thereunder.
- 4.5.10 As a result of a finding by an appropriate finder of fact that a contractor caused a substantial violation of a State, local or federal statue or regulation on said project, DBC may declare the contractor to be in default.
- 4.5.11 Prior to the start of any crane equipment operations, each contractor shall make all necessary applications and obtain all required permits from the Federal Aviation Administration (F.A.A.). The sequence of operations, timing and methods of conducting the work shall be approved by the F.A.A. to the extent that it relates to its jurisdiction.

# 4.5 Storage, Cleaning and Final Clean Up

- 4.5.1 Each contractor shall confine its apparatus, the storage of its equipment, tools and materials, and its operations and workers to areas permitted by law, ordinances, permits, and contract limit as established in the contract documents, the rules and regulations of the Using Agency, or as ordered by the Director. The contractor shall not unreasonably encumber the site or the premises with materials, tools and equipment.
- 4.6.2 Each contractor shall at all times during the progress of the work keep the premises and the job site free from the accumulation of all refuse, rubbish, scrap materials and debris caused by its operations, to ensure that at all times the premises and site shall present a neat, orderly and workmanlike appearance. This is to be accomplished as frequently as is necessary by the removal of such material, debris, etc. from the site and the State's premises. Loading, cartage, hauling and dumping will be at the contractor's expense.
- 4.6.3 At the completion of the work, all contractors shall remove all of their tools, construction equipment, machinery, temporary staging, falsework, formwork, shoring, bracing, protective enclosures, scaffolding, stairs, chutes, ramps, runways, hoisting equipment, elevators, derricks, cranes, etc. from the project site.
- 4.5.4 Should any contractor not promptly and properly discharge its obligation relating to cleaning and final clean up, the State shall have the right to employ others and to charge the resulting cost to the contractor(s) deemed by the Director to be responsible therefor, after first having given the contractor a three working day written notice of such intent.
- 4.6.5 The contractor's responsibilities in final clean up include:
  - a. Removal of all debris and rubbish resulting from or relating to the contractor's work. Rubbish shall not be thrown from building openings above the ground floor unless contained within chutes.
  - b. Removal of putty stains from glass and mirrors. Glass shall be washed and polished inside and outside.
  - c. Removal of marks, undesirable stains, fingerprints, soil, dust or dirt from painted, decorated or stained woodwork, plaster or plasterboard, metal acoustic tile and equipment surfaces.
  - Removal of spots, paint and soil from resilient, glazed and unglazed masonry and ceramic flooring and wall work.
  - e. Removal of temporary floor protections; and deaning, washing or otherwise treating and/or polishing, as directed, all finished floors.
  - f. Cleaning of exterior and interior metal surfaces, including doors, window frames and hardware, of oil stains, dust, dirt, paint, etc. Polishing and removal of fingerprints or blemishes from such surfaces shall be completed, as applicable.

- g. Restoration of all landscaping, roadways and walkways to pre-existing condition. Damage to trees and plantings shall be repaired in the next planting season, and such shall be guaranteed for one year from the date of repair and/or replanting.
- 4.6.6 in each instance, the clean-up work shall be performed by the contractor responsible for the portion of the work requiring the clean-up service. In the event of dispute as to responsibility, the Director's representative shall make the determination, which shall be binding on all contractors.
- 4.6.7 All construction equipment, materials or supplies of any kind, character or description of value belonging to the contractor and which remain on the job site for more than 30 calendar days from the date of the Certificate of Final Acceptance and Completion issued by the State to the contractor, shall become the absolute property of the State. It will be disposed of in any manner the State shall deem reasonable and proper.

# 4.7 Cut-Overs, Interruptions to Existing Buildings

4.7.1 All cut-overs of mechanical and electrical services to existing buildings shall be scheduled and coordinated in advance with the Director's representative and performed at a time convenient to the Using Agency so as not to unreasonably interfere with its operations.

# 4.8 Non-Regular Workdays

4.8.1 Regular working hours shall be 8:00 a.m. to 4:30 p.m., Monday through Friday. Changes thereto may be granted with written approval of the Director's representative. Any work required to be performed after regular working hours or on Saturdays, Sundays, or legal holidays as may be reasonably required and consistent with contractual obligations, shall be performed without additional expense to the State. The contractor shall obtain approval of the Director's representative for performance of work after regular working hours or on non-regular work days at least 24 hours prior to the commencement of overtime, unless such overtime work is caused by an emergency.

# 4.9 Drawings, Specifications, Shop and As-Built Drawings

- 4.9.1 The Director will furnish, after becoming aware of such need, additional instructions for the proper execution of the work. All drawings and instructions issued by the Director shall be consistent with the contract documents and reasonably inferable from and executed in conformity with the contract documents. The contractor shall do no work without proper drawings and instructions. In giving such additional instructions, the Director will have the authority to make minor changes in the work, not involving extra cost. Drawings and instructions with such supplementary details furnished or approved are understood to be included and a part of the contract.
- 4.9.2 Where certain of the work is shown in complete detail, but not repeated in similar detail in other areas of the drawings, or if there is an indication of continuation with the remainder being shown only in outlines, the work shown in detail shall be understood to be required in other like portions of the project.
- 4.9.3 No contractor shall, at any time after the execution of its contract, make any claims whatever based upon insufficient data or the contractor's incorrectly assumed conditions, nor shall the contractor claim any misunderstandings with regard to the nature, conditions or character of the work to be done under the contract. The contractor shall assume all risks resulting from any changes in conditions not under the control of the State, which may occur during the progress of the work.
- 4.9.4 Each contractor shall, together with the Director or Director's representative, prepare a schedule of the proposed progress of the work, fixing the dates when the various details and supplemental drawings, if any, may be required. Within two weeks of the first field meeting, each contractor shall submit to the architect/engineer a shop drawing sample submission schedule which shall be used as a basis for complying with the overall progress schedule. Each contractor shall also promptly submit, so as to cause no delay in its own work or that of any other prime contractor, a reproducible transparent copy of all shop or setting drawings, details

and schedules required for the work of the various trades. The architect/engineer will review them and return them to the contractor with reasonable promptness. The contractor shall promptly make any corrections, if required by the architect/engineer, and resubmit a reproducible transparent copy for approval. Within five working days of final approval, the contractor shall send the architect/engineer a minimum of six prints of the finally approved drawings as well as six copies of all catalog cuts, plus the required number of approved prints for all other prime contractors. The architect/engineer will make proper distribution of all drawings as directed by the Director.

- 4.9.5 The contractor shall not use the contract drawings for submission of shop drawings. All shop drawing sizes shall be in multiples of 9" x 12" (e.g., 18" x 24", 24" x 27", 24" x 36", etc.) as approved by the architect/engineer.
- 4.9.6 Attached to the contractor's initial submission of such drawings or catalog data shall be an itemized schedule listing dates by which all other submissions will be forwarded to the architect/engineer. The general construction contractor also has the responsibility to submit coordinated drawings whenever two or more trades are occupying common space. Any list of drawings prepared by the architect/engineer is for the Director's convenience only, and shall not be construed as limiting the number of drawings the contractor shall furnish.
- 4.9.7 Any contractor desiring to make any deviations or changes from the requirements of the contract documents shall obtain the consent of the Director to such changes before submitting drawings showing such proposed changes. All drawings submitted by the contractor shall have been checked and approved by the contractor before submission. The DBC project number and the drawings and specification references shall be noted on all submissions. Failure to comply with these instructions will be sufficient reason to return such drawings to the contractor without any action being taken.
- 4.9.8 Each contractor shall keep on the project site at all times one set of drawings to be marked "AS-BUILT." During the course of the project, the contractor shall mark these drawings with colored pencils to reflect any changes as well as dimension the location of all pipe runs, conduits, traps, footing depths or any other information not already shown on the drawings or differing therefrom. All buried utilities outside the building shall be located by a metes and bounds survey performed by a licensed surveyor who shall certify as to its accuracy. These marked-up drawings and surveys shall be made available to the Director upon request at any time during the progress of the work. These shall include the drawings of principal subcontractors as well.
- 4.9.9 In instances where sepias, shop drawings and/or erection drawings, of a scale larger than the contract drawings, are prepared by a contractor, such drawings and sepias will be acceptable in lieu of marked-up contract drawings, provided they are updated as per section 4.9.8 above. A master sheet of the same dimensions as the contract drawings shall be prepared by the contractor on a tracing which shall indicate, sheet by sheet, a cross reference to all shop drawings pertaining to that drawing. All drawings and sepias as required in section 4.9.8 and this section shall be labeled "AS-BUILT" above the title block and dated.
- 4.9.10 Each contractor shall submit the "as-built" documents to the architect/engineer, whether altered or not, with a certification as to the accuracy of the information thereon at the time of contract completion and before final payment will be made to the contractor. After acceptance by the architect/engineer, the contractor will furnish two sets of all shop and/or erection drawings used for "as-built" documentation.
- 4.9.11 The architect/engineer shall obtain original tracings at the office of the Division of Building and Construction. No original tracings will be mailed. All "as-built" drawings as submitted by contractors shall be labeled "AS-BUILT" above the title block and dated. This information shall be checked, edited and certified by the architect/engineer, which shall then transpose such information from the contractor's "as-built" drawings to the original tracings, certify that such tracings reflect as-built status, and deliver said tracings to DBC. Where shop drawings have been used by the contractor for "as-built" documentation, the tracing providing cross reference information, as described in section 4.9.9 of this document, shall be included in the set of "as-built" drawings furnished to DBC.

#### 4.10 Samples

4.10.1 Each contractor shall furnish, for approval, all samples as directed. The work shall be in accordance with approved samples. Such samples shall be submitted promptly to the Director, through the architect/engineer, at the beginning of the work, so as to give the Director time to examine them. Any list of samples prepared by the architect/engineer is for the Director's convenience only, and shall not be construed as limiting the number of samples the contractor shall furnish upon request of the architect/engineer.

# 4.11 Miscellaneous Drawings, Charts and Manuals

- 4.11.1 Roughing Drawings and Operating Manuals: Plumbing, HVAC, electrical and other machinery and mechanical equipment items requiring utility service connections shall have their respective shop drawings accompanied by manufacturer's certified roughing drawings, indicating accurate locations and sizes of all service utility connections.
- 4.11.2 Sleeve and Opening Drawings: Prior to installing service utilities or other piping, etc. through structural elements of the building, the contractor shall prepare and submit, for approval of the architect and structural engineer, accurate dimensional drawings indicating the positions and sizes of all sleeves and openings required to accommodate the work and installation of the contractor's piping, equipment, etc. All such drawings must contain reference to the established dimensional grid of the building. Such drawings must be submitted in sufficient time to allow proper coordination with reinforcing steel shop drawings and proper placing in the field.
- 4.11.3 Control Value and Circuit Location Charts and Diagrams: Plumbing, HVAC and electrical contractors shall prepare a complete set of inked or typewritten control valve and circuit location diagrams, charts and lists identifying and locating all such items, and shall place the charts diagrams and lists under frame glass in appropriately designated equipment rooms, as directed. These contractors shall also furnish one-line diagrams, as well as such color coding of piping and wiring and identifying charges as specified or required. This information is to be framed under glass and displayed where directed.
- 4.11.4 Operating and Manuals: Four copies of all operating and maintenance manuals, as identified and described in the contract specifications, are to be furnished by the appropriate contractors. Operating and maintenance manuals shall include a complete description of all systems and equipment; diagrams indicating connectors, coiling requirements and types of lubricants to be used; and method of operating equipment. These manuals must be submitted to the architect/engineer for review and approval at the earliest date possible, but in all cases prior to final acceptance. Included within the manuals shall be a list of names, addresses and telephone numbers of subcontractors involved in the installations and of firms capable of performing services for each mechanical item.
- 4.11.5 As a pre-condition to the acceptance of a facility for beneficial use, contractors shall provide a "throwaway" copy of operations and maintenance manuals to allow the using agency's staff to operate the equipment prior to receiving the hardbound copies required by the contract.

# 4.12 Openings - Channels - Cutting and Patching

- 4.12.1 Each contractor shall be responsible for furnishing and setting of sleeves, built-in items, anchors, inserts, etc. for its work and for all cutting, fitting, closing in, patching, finishing, or adjusting of its work in new and/or existing construction, as required for the completed installation. Where applicable, the contractor for general construction shall build these items into the construction.
- 4.12.2 The contractor for general construction shall build recesses, channels, chases, openings and flues and shall leave or create holes where indicated on drawings, or where directed, for steam, water or other piping, electrical conduits, switch boxes, panel boards, flues and ducts, or any other feature of the heating and ventilating work. All contractors requiring recesses, channels, chases, openings, etc., shall furnish to the contractor for general construction, through the architect/engineer, complete detailed drawings for all such openings required in connection with such work in ample time to allow the construction work to proceed without interruption or delay. At least three copies shall be furnished to the Director.

- 4.12.3 The contractor for general construction shall close, build in and finish around or over all openings, chases, channels, pockets, etc., after installation has been completed. Should any contractor fail to furnish the above required information in time, the contractor shall, at its own expense, arrange for all cutting, rebuilding, patching and finishing, but shall employ the contractor for general construction for such work.
- 4.12.4 Approval in writing from the Director must first be obtained by the contractor before cutting or boring through any floor beams, floor construction or supporting members.

#### 4.13 Tests

- 4.13.1 The contractor shall notify the Director or Director's authorized representative in writing of all work required to be inspected, tested or approved. The notice shall be provided no later than five working days prior to the scheduled inspection, test or request for approval. The contractor shall bear all costs of such inspections, tests or approvals, except for code inspections as stated in section 4.5.6 of this document.
- 4.13.2 When mechanical, electrical or other equipment is installed, it shall be the responsibility of the installing contractor to maintain, warrant and operate it for such period of time as required by the contract documents or as necessary for the proper inspecting and testing of the equipment and for adequately instructing the State's operating personnel. All costs associated with the maintenance, warranty, operations, inspection and testing of equipment, as well as instructing State personnel, shall be borne by the contractor installing the equipment. All tests shall be conducted in the presence of, and upon timely notice to, the Director prior to acceptance of the equipment.
- 4.13.3 When the Director requires special or additional inspections, testing or approvals, the Director will direct the contractor in writing to secure the service for such special or additional inspections, testing or approvals, and the contractor shall give notice as detailed in section 4.13.1 of this document. In the event such special or additional inspections or testing reveal a failure of the work to comply with the terms and conditions of the contract, the contractor shall bear all costs thereof, including all costs incurred by the State made necessary by such failures; otherwise the State shall bear all costs and an appropriate change order will be issued.
- 4.13.4 The contractor shall acquire inspection or testing services using only those firms/entities prequalified by DBC. A list of those prequalified firms/entities is contained within the contract specifications. Failure to use a firm/entity prequalified by DBC shall be grounds for rejection of the inspection or test as nonconformance.
- 4.13.5 All submittals of inspections and test reports or requests for approval shall be accompanied by a certification signed by the contractor, attesting to the contractor's knowledge of the submittal, acceptance of its findings, acknowledgment that material testing meets the required standards, and certification of the report's representation of the facts. Failure to provide the written certification shall be grounds for rejection of the submittal.
- 4.13.6 In addition to the above, the contractor agrees to insert in all contracts/purchase orders for inspection and testing the requirement for the inspection or testing firm/entity to submit, in conjunction with the report to the contractor, a copy of the report directly to the Director. The copy shall be held pending receipt of the contractor's certification of the report. Further, the contractor agrees to require all reports to be submitted within 14 calendar days of the test or inspection. Failure to provide reports within the required time shall be addressed pursuant to section 10.3.9 of these General Conditions.
- 4.13.7 Testing requirements for real property installed equipment (RPIE) to be turnished by the contractor, when such testing is required by code, contract, or the manufacturer, shall be performed by a testing laboratory prequalified by DBC, or, in the absence of such, by the manufacturer or its authorized representative. The contractor shall provide the five working days notice to the State. The State shall witness all tests.

#### 4.14 Equipment - Materials

4.14.1 The contractor warrants to the Director and the architect/engineer that all materials and equipment furnished under the contract will be new, unless otherwise specified, and that all work

will be of good quality, free from faults, defects, and in conformance with contract documents. All work not conforming to these requirements, including substitutions not properly approved and authorized, may be considered defective and rejected by the Director or the architect/engineer. If required by the architect/engineer or the Director, the contractor shall furnish satisfactory evidence as to the kind and quality of materials and equipment. This warranty is not limited by the provisions of the other paragraphs contained in this document.

- 4.14.2 The original and six copies of the request for approval of materials prepared on the appropriate DBC form shall be forwarded to the architect/engineer for approval. Each item of material listed shall be marked "As Specified" or "Unspecified" as the case may be.
- 4.14.3 Each contractor shall furnish and deliver the necessary equipment and materials in ample quantities and as frequently as required to avoid delay in the progress of the work and shall store them so as not to cause interference with the orderly progress of the project.
- 4.14.4 Each contractor shall furnish and pay for all necessary transportation, storage, scaffolding, centering, forms, water, labor, tools, light and power and mechanical appliances and all other means, materials and supplies for properly prosecuting the work under this contract, unless expressly specified otherwise. The contractor shall make arrangements to have its representatives at the site to accept delivered materials. State agencies will not accept materials, nor will they be held responsible for damage, theft, or disappearance of contractor's materials, equipment, tools, etc.
- 4.14.5 Manufactured products of the United States, whenever available, shall be used in this work. Wherever practicable, preference shall be given at all times to material and equipment manufactured or produced in the State of New Jersey, where such preference is reasonable and will best serve the interest of the State.
- 4.14.6 No materials, equipment, or supplies for the work shall be purchased by the contractor or any subcontractor subject to any lien or encumbrance or other agreement by which an interest is retained by the seller. The contractor warrants, by signing its invoice, that it has good and sufficient title to all such material, equipment and supplies used by it in the work, free from all liens, claims or encumbrances.

# 4.15 Substitutions

- 4.15.1 In the event a contractor should propose a substitution of the specified equipment or materials, it shall be its responsibility to submit proof of equality and to provide and pay for any tests which may be required by the Director in order to evaluate such proposed substitution.
- 4.15.2 Where any particular brand or manufactured article is specified, it shall be regarded as a standard. Similar products of other manufacturers, capable of equal performance and quality, in the opinion of the Director, will be accepted if approved.
- 4.15.3 On forms supplied by the State, the application for approval of a substitution by the contractor shall include or conform to the following requirements:
  - a. Furnish full and complete identification information.
  - Note whether the item is included in the specifications; in which case, identify the specification paragraph and section.
  - Attach data indicating in detail whether and how the substitution differs, if at all, from the article specified.
  - d. If a credit is to be offered for the substitution, provide a detailed itemization of the amount of credit.
  - e. If the proposed substitution involves a change in scope of the work of this or any other contractor or trade under the contract documents, then the contractor requesting approval undertakes and agrees to be responsible for any and all resulting added costs in its work, the work of other contractors and trades, including any redesign.

- f. When requesting approval of an out-of-state subcontractor or material manufacturer or supplier, include a statement indicating that reasonable effort was first made to find and utilize New Jersey firms and/or materials, at comparable costs, terms and performance capabilities.
- g. Submit documents which demonstrate proof of equality, along with an agreement to have such tests performed at the contractor's own expense as may be required for approval by the Director or the architect/engineer.
- No contractor shall base a bid on substitutions which may have been approved on previous projects. Bids shall be based solely on plans and specifications of the subject project.
- 4.15.4 Since substitutions are primarily for the financial benefit of the contractor, a credit change order shall accompany each request for substitution.

### 4.16 Subcontractor Approvals

4.16.1 Approval of a subcontractor or material supplier by the Director and architect/engineer shall not relieve the contractor of the responsibility of complying with all provisions of the contract documents. The approval of a subcontractor does not imply approval of any material, equipment or supplies.

### 4.17 Pay Limits for Excavation

- 4.17.1 The method of measurement and establishment of pay limits for additions or deductions for excavation where expressly authorized in these General Conditions and/or specifications, shall be as follows:
  - a. Basement excavations: Pay limit for excavation shall be in accordance with cross-section limited by vertical parallel planes extending 24 inches outside of foundation walls as shown on contract drawings, and horizontal plane along bottom of basement concrete slab or footings.
  - b. All pipelines and encased utilities: Pay limit for trench excavation shall be limited to width of 36 inches or the largest diameter or pipe barrel plus 24 inches, whichever is greatest, and depth at bottom of pipe barrel. When rock is encountered, the contractor shall excavate to six inches below bottom of pipe barrel. A compacted granular fill for the pipe shall be provided by the contractor. No additional payment will be made for this additional six inches of granular fill.
  - c. Encased electrical conduit, steam transmission lines, unformed foundation footings: Width and depth of trench shall be limited to same width and elevations of structure shown on contract drawings.
  - d. Unsuitable foundation material: Where unsuitable foundation material is encountered, the contractor shall excavate to elevations as directed by the Director. Unit prices for additional excavation and replacement with approved compacted granular fill stated in the proposal form shall be used as a basis for additional payment by the State. In the event that no unit price is included in the proposal form, the unit prices shall be negotiated with the Director prior to performance of the work or shall be done, at the option of the Director, on a time and material basis plus ten percent profit.

### 4.13 Soil Borings

4.18.1 Soil borings or test pits or other subsurface information may be secured by an independent contractor for the State prior to design and construction of a project and may be included in the contract documents for the contractor's use. The contractor assumes full responsibility for interpretation of said borings, and the State shall have no responsibility or liability should the data provided prove to be incorrect or not representative.

# 4.19 Separate Contracts

- 4.19.1 The State may execute this project by awarding separate contracts, the work of which shall proceed simultaneously.
  - a. Each contractor shall coordinate its operations with those of other contractors under the supervision and general control of the contractor for general construction.
  - Cooperation will be required of all contractors in the arrangements for the storage of materials and in the detailed execution of the work.
  - c. The contractor, including its subcontractors, shall keep informed of the progress and the details of work of other contractors and shall notify the architect/engineer immediately of any lack of progress or defective workmanship on the part of other contractors as such may affect its work.
  - d. Failure of a contractor to keep informed of the work progressing on the site and failure to give notice of lack of progress or defective workmanship by others shall be construed as acceptance by the contractor of the status of the work as being satisfactory for proper coordination with its own work.
  - e. It is agreed that no contractor shall be entitled to any damages or extra compensation from the owner on account of any work performed by other contractors, or any lack of coordination or supervision of the work of the contractors that in any way affects the work under its contract.
  - f. The contractors shall rely upon the organization, management skill, cooperation and efficiency of the contractor for general construction to supervise, direct and manage the conduct of the construction and the efforts of all prime contractors so as to deliver the project as required under the contract.
  - g. Project planning, scheduling and control ("critical path method"): As an aid to the contractor for general construction and all other contractors to bring the completion of the project within the time allocated, the owner may have contracted for the services of a critical path method (CPM) scheduling consultant for project planning, scheduling, and control. If such consultant has been retained, the general construction contractor shall incorporate and enforce the combined schedule as its own, and each contractor agrees to cooperate and coordinate its own operations in order to meet effectively all scheduled task deadlines, as further described in article 9 of these General Conditions.

## 4.20 Mutual Responsibility of Separate Contractors

4.20.1 The contractors shall cooperate with each other and secure the effective cooperation of the various craftsmen employed on the work, so that no portion of the work is delayed or not properly performed as a result of the failure of any workers to properly and efficiently perform the tasks assigned them. Should it at any time appear that the progress of the work is being delayed or adversely impacted by such failure, upon notice from the Director, the responsible contractor shall immediately discharge the delinquent workers and employ others for the tasks.

# 4.21 Protection of Contractor's Property

4.21.1 Each prime contractor shall adequately secure and protect its own tools, equipment, materials and supplies. The State assumes no liability for any damage, theft or negligent injury to the contractor's property.

#### 4.22 Patents

4.22.1 The contractor shall hold and save the State and its officers, agents, servants, and employees harmless from liability of any nature or kind, including cost and expenses for or on account of any patented or non-patented invention, process, article or appliance manufactured

or used in the performance of the contract, including its use by the State, unless otherwise specifically stipulated in the contract documents.

- 4.22.2 License and/or royalty fees for the use of a process which is authorized by the State must be reasonable, and paid to the holder of the patent or his or her authorized licensee directly by the State and not by or through the contractor.
- 4.22.3 If the contractor uses any design, device or materials covered by letters, patent or copyright, it shall provide for such use by suitable agreement with the State or such patented or copyrighted design, device or material. It is mutually agreed and understood that, without exception, the contract prices shall include all royalties or costs arising from the use of such design, device or material in any way involved in the work. The contractor and/or its sureties shall indemnify and save harmless the State from any and all claims for infringement by reason of the use of such patented or copyrighted design, device or material, or any trademark or copyright in connection with work agreed to be performed under this contract, and shall indemnify the State for any cost, expense or damage which it may be obliged to pay by reason of such infringement at any time during the prosecution of the work or after the completion of the work.

## 4.23 Right to Audit

- 4.23.1 The State reserves the right to audit the records of the contractor in connection with all matters related to its contract. The contractor agrees to maintain its records in accordance with generally accepted accounting principles, for a period of not less than three years after receipt of final payment. "Generally accepted accounting principles" is defined as follows: Accounting records must identify all labor and material costs and expenses, whether they be direct or indirect. The identity must include at least the project number for direct expenses and/or account number for indirect expenses. All charges must be supported by appropriate documentation, including, but not limited to canceled checks.
- 4.23.2 The contractor shall develop, maintain and make available to the Director on request such schedule of quantities and costs, progress schedules, payrolls, reports, estimates, change orders, all original estimates, takeoffs and other bidding documents, all subcontractors and supplier contracts and changes, all records showing all costs and liabilities incurred or to be incurred in connection with the project (including all subcontractor and supplier costs), all payment records and all records showing all costs incurred in labor and personnel of any kind, records and other data as the State may request concerning work performed or to be performed under this contract.
- 4.23.3 The contractor acknowledges and agrees that no claim for payment which is premised to any degree upon actual costs of the contractor shall be recognized by the State except and to the extent that such actual costs are substantiated by records required to be maintained under these provisions.
- 4.23.4 The contractor shall require each subcontractor, to the extent of the work to be performed by the subcontractor, to be bound to the contractor to the terms of the State's contract documents, and to assume toward the contractor all the obligations and responsibilities which the contractor assumes, by these documents, to the State and its contractual parties.
- 4.23.5 The contractor shall not grant to any subcontractor terms more favorable than those extended to the contractor by the State.
- 4.23.6 The contractor shall not permit its subcontractors to subcontract work without the express written approval of the Director or the Director's designate.
- 4.23.7 The contractor acknowledges and agrees that its obligation to establish, maintain and make available records and the State's right to audit as delineated herein shall extend to actual costs incurred by subcontractor in performing work required under the contract or any supplemental agreement thereto. The contractor shall require in each subcontract that the subcontractor establish, maintain and make available to the State all records as defined and delineated herein, relating to all work performed under the subcontractor including work performed by a sub-subcontractor.

### 4.24 Control Wiring

4.24.1 The prime contractor which furnishes and installs mechanical equipment, including, but not limited to, heating, ventilating and air conditioning systems, ATC systems, boilers, remote monitoring systems, and so forth, which systems require electrical control wiring, shall include in its bid the cost of all such control wiring and its installation. The prime contractor shall employ a subcontractor approved by the Division of Building and Construction for all such control wiring. The subcontractor shall provide a Final Certificate of Electrical Inspection of the control wiring. Installed or control wiring must connect to a point of electrical power supply as shown on the contract documents.

## 4.25 Standby Personnel

4.25.1 Each prime contractor which is obligated to employ standby personnel by trade agreement to which it is a party shall determine and include all such costs thereof in its bid proposal. No contractor shall, at any time, make a claim to the State for costs relating to standby maintenance or standby supervision for electric motor-driven or other equipment. The State will not, under any condition, entertain or consider a claim in this regard unless such claim is made as a result of the State's unreasonable refusal to accept beneficial occupancy of the completed project.

### ARTICLE 5

### CONTRACTOR FOR GENERAL CONSTRUCTION: SPECIAL RESPONSIBILITIES

Wherever the term "general construction contractor" is used herein, it is intended to mean either the contractor for general construction whenever separate prime contracts are involved or the sole contractor if there are no other prime contractors engaged on the project.

### 5.1 Unique Role of Responsibility - Staffing

5.1.1 Wherever separate contracts are awarded to separate prime contractors for the different branches of the work or where there is a single prime contractor, the contractor for general construction (hereinafter referred to as the general construction contractor) has the responsibility for being the supervisor, manager, overseer, coordinator and expediter of all of the contractors and of the total construction process and all of its parts, in accordance with the contract documents. In pursuance of these duties, the general construction contractor will have the right to request the denial or reduction of progress payments to other contractors, should the general construction contractor have cause to be dissatisfied with the performance of another contractor. The Director has the power to modify or reject the general construction contractor's recommendation. The general construction contractor shall not claim any damages resulting from the Director's exercise or failure to exercise these discretionary powers. In executing the duties assumed by these responsibilities, the general construction contractor shall provide sufficient executive and supervisory staff in the field to accomplish efficient and expeditious handling of these matters. There shall be at least one full-time project manager assigned by the general construction contractor, as well as the field staff referred to above, who shall attend each progress meeting at the site. The general construction contractor shall include in its bid a sum sufficient to perform these responsibilities.

### 5.2 Control and Coordination of Construction

- 5.2.1 The Director relies upon the organization, management, skill, cooperation and efficiency of the general construction contractor to supervise, direct, control and manage the general construction work and the efforts of the other contractors, so as to deliver the completed project in conformance with the contract documents and within the scheduled time.
- 5.2.2 The contractor for general construction shall include in its bid an amount sufficient to cover the cost of furnishing necessary administrative and supervisory forces to coordinate its own work and that of its subcontractors, and the work of the other prime contractors. All of the other prime contractors shall be responsible to the contractor for general construction for performance of their contract work and for meeting those dates within the final project progress schedule, as approved by all parties to the various multiple contracts. It must be clearly understood that the Director will rely on the fact that the contractor for general construction has included in its bid sufficient funds to perform this function. The other prime contractors must consider and reflect within their bids the impact of this requirement on their performance and their resulting responsibility to cooperate and coordinate their work as directed and required by the contractor for general construction.

# 5.3 Layout and Dimensional Control - Surveying

- 5.3.1 The general construction contractor shall be responsible for locating and laying out the building and all of its parts on the site, in strict accordance with the drawings, and shall accurately establish and maintain dimensional control. The general construction contractor shall employ and pay for the services of a competent and licensed New Jersey engineer or land surveyor (who shall be approved by DBC) to perform all layout work, and to test the level of excavations, footing base plates, columns, walls and floor and roof lines, and furnish to the architect/engineer, as the work progresses, certifications that each of such levels is as required by the drawings. The plumb lines of walls, etc., shall be tested and certified by the surveyor as the work progresses.
- 5.3.2 The engineer/surveyor, in the course of layout work both on the site and within the building, shall establish all points, lines, elevations, grades and bench marks for proper control and execution of the work. The engineer/surveyor shall establish a single permanent bench

mark as directed, to which all three coordinates of dimensional control shall be referred. The engineer/surveyor shall verify all owner-furnished topographical and utility survey data and all points, lines, elevations, grades and bench marks. Should any discrepancies be found between information given on drawings and the actual site or field conditions, the general construction contractor shall notify the architect/engineer of such discrepancy, and shall not proceed with any work affected until receipt of written instructions from the architect/engineer.

### 5.4 Construction Access Routes

5.4.1 The general construction contractor shall be responsible for providing and maintaining unobstructed traffic lanes on the designated construction access routes either shown on the contract drawings or reasonably required so as to perform the work, and shall provide and maintain all reasonably required safety devices. The general construction contractor shall provide any necessary additional materials, their grading and compaction, and shall remove snow and debris as necessary to provide and maintain the general serviceable condition of the access roadbed, as well as pedestrian ways.

## 5.5 Project Sign

5.5.1 The general construction contractor shall erect and maintain one sign at the project site, as shown on the drawings and located as directed by the architect/engineer. Painting shall be done by a professional sign painter, with two coats of exterior paint, colors, letter face and layout as shown. No other sign will be permitted at the site. Upon completion of the project, and when directed by the architect/engineer or the Director, the general construction contractor shall remove the sign. Should there be a change in the listed State officials, the general construction contractor shall make appropriate changes to the sign at its expense.

### 5.6 Dust Control

5.6.1 The general construction contractor, at its expense, shall provide and maintain necessary temporary dustproof partitions around areas of work in any existing building or in new building areas as directed by the architect/engineer or the Director.

## 5.7 Repair of Finished Surfaces, Applied Finishes, Glass

- 5.7.1 The general construction contractor accepts sole responsibility for repair of uncontrolled dislodging, cracking, delamination or peeling of finished surfaces such as concrete, precast concrete, cast and natural stone, unit masonry, millwork, plaster, glass and applied finishes such as paint, and special coatings, within the contract scope and the limits of specified guarantee periods, regardless of the cause.
- 5.7.2 The general construction contractor shall be responsible for replacement of all broken glass installed by it or by its subcontractors, after same has been installed, no matter by whom or what caused. The general construction contractor shall replace all broken, scratched or otherwise damaged glass before the completion and acceptance of the work. The general construction contractor shall wash all glass on both sides at completion, or when directed, removing all paint spots, stains, plaster, etc.
- 5.7.3 Nothing herein is intended to limit the right of the general construction contractor to seek payment from the party responsible for damages.

#### 5.8 Photographs

- 5.3.1 With each application for payment until the exterior is completed, the general construction contractor shall submit monthly progress photographs of the building, in duplicate to the Director or the Director's representative, giving two views of each building as selected by the architect/engineer, taken from the same points each month. This requirement shall apply to the creation of the new space only.
- 5.8.2 The photographs shall be 8" by 10", mounted on muslin, and the negative shall bear the date of the exposure, the DBC project number and title and the names of the contractor and the architect/engineer.

### 5.9 Guarantee

- 5.9.1 Neither the final certificate of payment, nor any provision in the contract documents, nor partial or entire occupancy of the premises by the State shall constitute an acceptance of work not done in accordance with the contract documents, nor shall it relieve the contractor of liability with respect to any expressed or implied warranties or responsibility for faulty materials or workmanship. The State will give notice of observed defects with reasonable promptness.
- 5.9.2 In addition to guarantees otherwise specified in other sections of the specifications, each prime contractor and each individual subcontractor shall guarantee and warrant, in writing, the work to be performed and all materials to be furnished under this contract against defects in materials or workmanship, and shall pay for the value or repair of any damage to other work resulting therefrom for a period of one year from the date of project acceptance. All guarantees, bonds, etc. required by the specifications shall be in writing in requisite legal form and delivered to the Director at the time of submission of the invoice for final payment. All subcontractors' guarantees, bonds, etc. shall be underwritten by the prime contractor, which shall obtain and deliver same to the Director before the work shall be deemed finished and accepted.
- 5.9.3 The contractor shall, at its own expense and without cost to the State, within a reasonable time after receipt of written notice thereof, make good any defects in material or workmanship which may develop during stipulated guarantee periods, as well as any damage to other work caused by such defects or by their repairs. Any other defects in materials or workmanship not reasonably observable or discovered during the guarantee period shall be repaired and/or replaced at the contractor's expense, and such shall be completed within a reasonable time after written notice is given to the contractor.
- 5.9.4 It is anticipated that certain permanent equipment will have to be activated during construction of the project to support construction operations. This would particularly be the case with respect to service elevators and those portions of the permanent heating system which might be required to provide temporary heat for interior finish operations. Regardless of when equipment is activated for use during construction, all equipment warranties must extend for the time periods required in these specifications, starting as of the date of occupancy or final acceptance (whichever is the earliest) of the project by the State. All contractors shall include in their base bids all costs necessary to provide extended warranties as necessary for any equipment which may be activated prior to final building acceptance by the State.

#### 5.10 Inspection of Roadway Subgrades

5.10.1 The general construction contractor shall notify the DBC representative at least 48 hours prior to the anticipated completion of all roadway subgrade work. DBC may request an inspection by an appropriate agency to ensure that the subgrade meets the compaction standards. All subgrade shall be proof-rolled for such inspection. If compaction soils tests are required, these tests will be done by soils testing laboratories through DBC, unless contrary provisions are made elsewhere in the specifications. The contractor shall not proceed with base course until the results of the compaction tests are determined and upgrade approved by DBC.

#### 5.11 Security Services

5.11.1 The general construction contractor shall provide security services throughout the period of construction to adequately protect the work, stored materials and temporary structures located on the premises, and to prevent unauthorized persons from entering the construction site. The period of time and the hours of the day or night required for such services shall be established by the contractor for general construction and must be sufficient to insure all contractors adequate protection as described herein. If the Director determines that adequate protection is not being provided and directs the contractor for general construction to increase the service, such protection shall be provided at no extra cost to the State.

#### ARTICLE 6

# TEMPORARY FACILITIES, UTILITIES AND SERVICES

### 6.1 Field Offices

- 6.1.1 Each contractor will provide on site and maintain during the project construction a suitable weather-tight insulated field office conveniently located for reception and continuous use, and shall maintain therein a complete set of contract documents including plans, specifications, CPM network diagrams, change orders, logs and other details and correspondence. The field office shall contain approved and safe heating facilities and lighting, convenience outlets, a fire extinguisher, a minimum of two operating windows of 15 square feet each, and an outside door with a handle, hasp and padlock. The field office may be removed upon enclosure of the building at a time directed by the architect/engineer; contents and operations will be transferred to the interior of the project building by the general construction contractor, and said offices shall be maintained by the general construction contractor until final acceptance of the project.
- 6.1.2 The general construction contractor will provide on site suitable, separate, weather-tight, insulated (floor, walls, ceilings) field office facilities for the use of DBC personnel, all to be conveniently located for the functions designated. The contractor shall also furnish in these facilities approved and safe means of heating (available beyond regular working hours), fire extinguishers, operating windows of 15 square feet each, 12,000 BTU air conditioning units, 3' x 5' plan tables, conference tables, folding chairs and an outside door with a handle and a hasp for a State-furnished padlock. At a time determined by the Director or the architect/engineer, the contractor shall remove field facilities upon enclosure of the project building and shall relocate the contents and operations of the field office to the interior of the project building until completion of the project.
- 6.1.3 The general construction contractor shall be responsible for the maintenance of both offices and the meeting room, including the cost of heating, electric current, janitorial service and other incidentals.
- 6.1.4 Each contractor shall provide its own telephones. Coin-operated pay phones in the field offices are acceptable. The State will be responsible only for the cost of calls made by its employees.

### 5.2 Temporary Storage, Staging and Shelter Structures

6.2.1 Each contractor will provide and maintain, for its own use and as each deems necessary, suitable and safe temporary storage, tool shops, and employees' sheds for proper protection, storage work and shelter, respectively. Each contractor shall maintain these structures properly and remove them at the completion of work. Locations shall be directed by the general construction contractor. Rooms in the building may be used as shops and store rooms, with the approval of the general construction contractor and DBC. The contractor making use of these areas shall be responsible for correcting defects and damage caused by such use and for keeping these areas clear and clean.

# 6.3 Temporary Construction Operations/Services Facilities

6.3.1 Each contractor shall be responsible for providing for its own requirements relative to storage areas, employee vehicular parking, equipment marshaling areas, excavation borrow/spoils designated areas, commercial canteen areas, etc. The general construction contractor shall locate these areas to suit project requirements, with the State's concurrence.

### 6.4 Temporary Toilet Facilities

- 6.4.1 The general construction contractor shall provide and pay for suitable temporary toilets at an approved location on the site and prior to the start of any field work. They shall comply with State and local laws and regulations. The general construction contractor will be responsible for maintenance, removal and relocation as described hereinafter.
- 6.4.2 Toilets shall be serviced by a firm qualified and experienced in such functions.

- 6.4.3 Toilets shall be of the portable chemical type, mounted on skids, with screened enclosures with doors, each having a urinal and water closet.
- 6.4.4 One unit shall be provided for each 30 employees. In addition, one unit, together with a lavatory, shall be provided in DBC's office. The lavatory and toilet will be so arranged as to accommodate the meeting room and the architect/engineer's office, as well as DBC's office.
- 6.4.5 Each unit shall be serviced at least twice a week, including the removing of waste matter, sterilizing, recharging tank, refilling tissue holders, and thoroughly cleaning and scrubbing of entire interior, which shall be maintained in a neat and clean condition.
- 6.4.6 Toilet facilities in a multiple-story building shall be located on no less than every other floor, unless otherwise directed.
- 6.4.7 Toilet service shall be relocated inside the building and connected to water and sewer as soon as the progress of the work will allow.
- 6.4.8 When toilets are connected to water and sewer lines, precautions shall be taken to prevent freezing.
- 6.4.9 The temporary toilet units shall be removed from the work site at the completion of the work, or when so directed by the Director or the architect/engineer.
- 6.4.10 Workers are not to use the finished bathroom and toilet facilities in the project buildings. Reasonable steps must be taken by the general construction contractor to enforce this rule.

### 6.5 Temporary Drives and Walks

- 6.5.1 The general construction contractor shall be responsible for keeping all roadways, drives and parking areas within or proximate to the site free and clear of debris, gravel, mud or any other site materials by ensuring that all reasonably necessary measures are taken to prevent such materials from being deposited on such surfaces. This includes, as may be appropriate, the cleaning of vehicle wheels, etc., prior to exit from the construction site. Should such surface require cleaning, the general construction contractor will clean these surfaces without additional cost to the State. The general construction contractor will be held accountable for any citations, fines or penalties imposed on the State for failing to comply with local rules and regulations.
- 6.5.2 Should the general construction contractor elect to commence construction of permanent driveways, parking areas or walks (other than general grading of temporary shop areas), the contractor shall not do so without the approval of the Director or the Director's representative. The contractor shall not do so without having prepared the subgrade, as may be elsewhere required by the specifications, nor will the contractor be relieved from any responsibility for providing additional materials or for reworking the subgrade prior to completion of the work, if so required to make the improvements conform fully with the specifications.
- 6.5.3 The general construction contractor shall obtain permission in writing from the State before using any existing driveways or parking areas not specifically designated for such use in the contract documents for construction purposes. The contractor shall maintain such driveways and areas in good condition during the construction period, and at completion of the project shall leave them in the same condition as at the start of the work. Conditions before use should be carefully photographed or documented by the contractor.

#### 6.6 Temporary Water

6.6.1 The plumbing contractor (or in the event there is no plumbing contract to be executed for the project, the general construction contractor) shall provide, protect and maintain an adequate valved water supply to a convenient location for the use of all contractors on the project during the period of construction, either by means of the permanent water supply line, or by the installation of a temporary water supply line. The water supply line shall be made available within 15 calendar days after the written request has been made to the plumbing contractor by any prime contractor requiring this service. Copies of the request will be sent to the architect/engineer and the Director. If the source of water supply is a well, provisions covering

the supply water will include the installation of necessary power-driven pumping facilities by the plumbing contractor. The well shall also be protected against contamination. The water supply shall be tested periodically by the plumbing contractor, and if necessary, shall be chlorinated and filtered. All costs in providing water, other than the cost of the water itself, will be borne by the plumbing contractor (or the general construction contractor if there is no plumbing contractor). Electrical services and hookups will be provided by the electrical contractor, which will pay all costs for this electrical work. Should pumps be installed in connection with this water supply, electrical connections will be provided and paid for by the electrical contractor.

- 6.6.2 Temporary water will be provided by the State using agency at no charge to the contractor, provided and to the extent it may be existing and available at the site immediately prior to and during construction. It is the obligation of any prime contractor requiring temporary facilities to investigate and make specific arrangements with the using agency for such facilities and to include in its proposal the cost of any additional facilities the contractor may require for proper conduct of its work.
- 6.6.3 The plumbing contractor shall install its temporary and/or permanent water lines to the boiler room and heating equipment in sufficient time to be available for supplying water for testing and operation of the heating system, when such are needed to supply heat for the project.
- 6.6.4 The plumbing contractor is responsible to protect all water lines from damage or freezing, be they permanent or temporary. Should water connections be made to an existing line, the plumbing contractor shall provide a positive shut-off valve at its own cost and expense.
- 6.6.5 If the plumbing contractor fails to carry out its responsibility in supplying water as set forth herein, the plumbing contractor shall be held responsible for such failure, and the Director shall have the right to take such action as is deemed proper for the protection and conduct of the work and may deduct the cost involved in so doing from any sums due the plumbing contractor.

## 6.7 Temporary Light and Power

- 6.7.1 The electrical contractor shall extend electrical service to the building or buildings at locations approved by the Director; temporary electrical service shall be independent of the existing permanent service. Initial temporary service shall be three phase or single phase, depending upon closest availability to the project. Temporary light and power installations, wiring, and miscellaneous electrical hardware must meet the electric code. This service shall be installed within 15 calendar days after written request has been made to the electrical contractor by any prime contractor regarding such service (with copies to the architect/engineer and the Director). When the contract calls for three phase permanent service, the electrical contractor shall install same within a reasonable time to permit use by any other prime contractors. Electrical characteristics shall be provided to meet all temporary light and power reasonably required as herein and hereafter specified, or as included under supplementary general conditions. The electrical contractor shall provide the necessary distributing facilities and a meter, and shall pay the cost of running temporary services from the nearest utility company power pole. All costs shall be included in the electrical contractor's bid.
- 6.7.2 The electrical contractor shall extend the service into the building and shall provide receptacles and lighting as described hereinafter, and one five horsepower 208, 220 or 230 volts power outlet for each building, and one separate power outlet for each contractor for the proper conduct of its work. Power outlets shall be fed independently of the temporary lighting system. The extension of service shall include the necessary wiring of sufficient capacity to the location of the well for the operation of the well pump in the event a water well is the source of water supply for the project. Where service of a type other than herein mentioned is required, the contractor requiring same shall install and pay all costs of such special service. The size and incoming service and main distribution switch and panel shall be sized as any service by NEC requirements.
- 6.7.3 The electrical contractor shall provide double sockets at a maximum of 30 feet on centers in large areas. One socket shall contain a 150 watt lamp, and the other socket shall be a grounding type to accept a receptacle plug for small single-phase loads to be used for short periods of time. The electrical contractor shall provide double sockets of the type described above in all individual rooms, one double socket for each 500 square feet, or fraction thereof, of

room area (for example: a room 30' by 30' is equal to 900 square feet and would require two double sockets).

- 6.7.4 The electrical contractor shall provide all electrical service for the operation of elevator equipment during construction, as well as for permanent installation.
- 6.7.5 The general construction contractor shall pay for the cost of all electric energy used on distribution lines installed by the electrical contractor until the project is accepted by DBC. The electrical contractor shall provide and pay for all maintenance, servicing, operation and supervision of the service and distribution facilities. The electrical contractor shall also connect, maintain and service any electrical equipment installed by the HVAC contractor which may be necessary for maintaining heat whenever heat is required in the building, whether from the temporary or permanent system.
- 6.7.6 Any contractor which fails to carry out its responsibility in the supplying of uninterrupted light and power or other utility as set forth herein shall be held responsible for such failure, and the Director shall have the right to take such action as is deemed proper for the protection and conduct of the work, and shall deduct the costs involved from the amount due the contractor at fault.
- 5.7.7 There shall be no additional cost to the State or other prime contractors because of standby requirements due to conflict in the normal working hours of the various trades. The electrical contractor shall provide temporary light and power to all trades during normal working hours of such trades. Where overtime work by any contractor necessitates standby electricians or other trades, such contractor shall be responsible for making appropriate arrangements, financial and otherwise, for such service at no cost to the State.
- 6.7.8 The electrical contractor shall observe the requirements of the Federal Occupational Safety and Health Act of 1970 with regard to temporary light and power.

## 6.8 Temporary Electric Service for Special Equipment

- 6.8.1 The electrical contractor shall provide, at locations acceptable to the prime contractors involved, two outlets 208, 220, or 230 volts, 60 cycle three phase (single phase if three phase is not available), 7.5 horsepower maximum capacity for each of the prime contractors using electric welding equipment, terrazzo grinders, pipe threading equipment and/or floor sanders. Should any contractor desire additional outlets or service of this type beyond the specified two outlets, or service of a greater capacity or of different characteristics or for any other power equipment, that contractor shall arrange with the electrical contractor for the installation and shall pay all costs involved.
- 6.8.2 Any conflict arising among any of the prime contractors with regard to financial obligations for standby personnel or standby supervisory employees, should they be required by trade agreement, shall be resolved between the parties involved by allocating such costs in direct proportion to the number of standby units caused to be on the site by each of the respective contractors.

#### 6.9 Temporary Heat

- 6.9.1 Prior to the building being enclosed by walls and roof, if the outside temperatures shall fall below 40 degrees F. at any time during the day or night, and heat is required for work in progress or for its protection, the respective contractors responsible for such phase of work shall furnish, at their expense, acceptable means to provide sufficient temporary heat to maintain a temperature of not less than 45 degrees F. for that portion of the work for which they are directly responsible.
- 6.9.2 Heating of field offices, storage spaces, concrete and masonry materials and working area, as required, shall be provided by the responsible contractors. Field offices shall be heated to a minimum of 68 degrees F. and shall be air conditioned in the summer.
- 6.9.3 As soon as the Director determines that the building, or a major unit thereof, is "generally enclosed" by walls and roof, the responsibility of supplying working area heat shall rest with the general construction contractor. When the outside temperature falls below 40 degrees F. at any

time during the day or night, the general construction contractor shall furnish sufficient heat by the use and maintenance of LP gas heaters or other acceptable means to maintain a temperature of not less than 45 degrees F. within the enclosed area of the building at all times, and shall remove such heaters when no longer required. The general construction contractor will be held responsible for providing temporary heat for all damages resulting from freeze-ups, for a period which will extend 60 calendar days beyond the date the Director determines that the building is temporarily enclosed (without the use of temporary enclosures or materials, except in circumstances having the prior written approval of the Director). The general construction contractor shall remove soot, smudges, and other deposits from walls, ceilings, and all exposed surfaces which are the result of the use of heating equipment, including the permanent heating system, during the period of its use for supplying heat. The contractors shall not do any finish work until the areas are properly cleaned. The general construction contractor shall provide or arrange, at its own expense, supervision of the heating equipment at all times prior to the start of the HVAC contractor's obligation to provide heat, using the permanent heating system. This obligation shall commence 60 calendar days after the acknowledged permanent enclosure of the building or buildings, as confirmed by the Director. The general construction contractor shall furnish and pay for all fuel for heat required during the entire construction period.

- 6.9.4 The general construction contractor shall not assume that the permanent heating system or any part thereof will be available for furnishing of temporary heat during the period for which temporary heat is the responsibility of the general construction contractor. The general construction contractor's base bid price shall therefore include the cost of all equipment necessary for providing temporary heat as required under these specifications.
- 6.9.5 All heating equipment shall be NFPA-approved and connected to approved flues to the atmosphere. Gas cylinders within the building shall not exceed 100 pounds capacity, shall have interstate Commerce Commission approval, and shall be fitted with a permanent cap to protect the valve when not in use. Heaters shall be approved by a recognized testing laboratory and must be equipped with a positive shut-off safety valve. Cylinders and heaters shall stand at least six feet apart, and shall be connected with two braid neoprene hoses that will withstand 250 psi test pressure.
- 6.9.6 Storage of cylinders within the building will not be permitted at any time. Fire extinguishers shall be provided by the general construction contractor on each floor where heaters are used, and the areas must be adequately ventilated.
- 6.9.7 Contractors responsible for providing temporary heat shall train at least two dependable persons to oversee temporary heat operations.
- 6.9.8 For the purposes of establishing the beginning of the general construction contractor's obligation to provide temporary heat, a building or major unit thereof shall be considered generally enclosed when (a) the exterior walls have been erected, (b) a temporary roof or permanent roof is installed and in watertight condition, and (c) temporary or permanent doors are hung and window openings are closed with either permanent or temporary weather-tight enclosures (cardboard or woven materials are not to be used; however, any impervious transparent material reasonably intended for such purpose is acceptable). A major unit of buildings as referred to herein shall be: (a) an entire separate structure, or (b) a fully enclosed wing which shall have a floor area equal to at least 50 percent of the total floor area of the project.
- 6.9.9 On the 60th calendar day after the building, buildings or major unit thereof is (are) permanently enclosed and the Director has determined that heat is required for the proper execution of the construction work, the HVAC contractor shall provide the heat. A building or major unit thereof shall be considered 'permanently enclosed' when (a) the exterior and enclosure work including walls, windows, glazing, louvers, and doors have been permanently installed, (b) a permanent building roof has been completed and satisfactorily tested, (c) the permanent building roof drain system has been completed and made operational, and (d) all building openings have been closed such that the building is weather tight. Regardless of whether the boiler room is within the confines of the major unit or not, it must be enclosed and its floor installed at least 60 calendar days prior to the time when the HVAC contractor becomes responsible to supply heat.
- 6.9.10 When the building or major unit thereof, including the boiler room area, is generally enclosed as herein defined, and appropriate notice has been given, it shall be the obligation of

the Director or the Director's authorized representative to so acknowledge at a job conference at the site. The minutes of said meeting shall contain any such acknowledgment. If the architect/engineer and Director's representative at the site concur that the building or major unit is property generally enclosed, then as of the date of the job conference at which notice was given, the supply of heat (including cost of fuel) and the payment of any repair costs for damage created by freeze-ups shall become the responsibility and obligation of the general construction contractor. Confirmation of the time that such responsibility and obligation becomes effective shall be incorporated in the minutes of the job conferences, as prepared by the architect/engineer. The contractors so notified shall give due attention to their obligations in connection with the transfer of said responsibility and obligation to the general construction contractor.

- 6.9.11 When the building or a major unit thereof, including the boiler room area, is permanently enclosed as herein defined, and appropriate notice has been given, it shall be the obligation of the Director or the Director's authorized representative to so acknowledge at a job conference at the site. The minutes of said meeting shall contain any such acknowledgment. If the architect/engineer and Director's representative at the site concur that the building or major unit is properly permanently enclosed, then on the 60th calendar day from the date of the job conference at which notice was given, the supply of heat (not including cost of fuel) and the payment of any repair costs for damage created by freeze-ups shall become the responsibility and obligation of the HVAC contractor. Confirmation of the time that such responsibility becomes effective shall be incorporated in the minutes of the job conference, as prepared by the architect/engineer. The contractors so notified shall give due attention to their obligations in connection with the transfer of said responsibility and obligation to the general construction contractor.
- 6.9.12 The general construction contractor shall continue to provide acceptable means of heat until the obligation of the HVAC contractor to supply heat becomes effective, as herein stated. At the time the HVAC contractor becomes responsible for providing heat, if the permanent heating system is not acceptable to the Director or the Director's representative, and therefore may not be used for providing temporary heat, the general construction contractor shall continue to provide temporary heat as may be ordered by the Director. The costs involved, however, shall be paid by the HVAC contractor. The fuel costs shall be paid by the general construction contractor regardless of which entity provides and maintains the heat or equipment.
- 6.9.13 The State reserves the right to permit the substitution of limited temporary enclosures in lieu of permanent construction for the attainment of a permanently tight building if such action is deemed by the State to be in the best interest of the project. This action will not be such as to create a future jeopardy to the environmental integrity of the building as construction proceeds.
- a.g.14 On the 60th calendar day after notice has been given (and confirmed by the job meeting minutes) that the building, or a major unit thereof, is permanently enclosed, the HVAC contractor shall operate the permanent heating system, if the system has been completed to the extent necessary to allow such use. The HVAC contractor shall provide such heat to a minimum temperature of 45 degrees F., or to such higher temperature, not to exceed 75 degrees F., as may be directed by the Director for the proper conduct and protection of the work. The HVAC contractor shall do so until such time as its work is completed and accepted and the contractor is relieved of this requirement in writing by the Director. Should the HVAC contractor fail to meet this obligation, the Director has the discretion to take any action deemed necessary to have the heating system operated, or will authorize the general construction contractor to continue use of temporary units as described in 6.9.9 above. All costs involved shall be deducted from any monies due the HVAC contractor. The HVAC contractor shall pay for and be responsible for the maintenance, operation and supervision of the heating system, not including the cost of fuel, throughout the period that the heat is needed and until the Director's final acceptance of the work required by the HVAC contract, regardless of the contract completion date.
- 6.9.15 When the permanent heating system provided by the HVAC contractor is the source of the heat, the general construction contractor shall be responsible for paying for all water, electricity, and fuel required for the operation of the permanent heating system until the State assumes beneficial occupancy/use of the project, except for the cost of fuel during the test period, as previously provided. The HVAC contractor shall install adequate controls and shall arrange, at its own cost, with the plumbing and electrical contractors for making such temporary connection as required for the operation of the heating system. Should the heating system

provided by the HVAC contractor be designed for the tie-in to existing steam lines for resource of heat, the State will provide steam for temporary heat through the project permanent heating system, at no cost to any contractor, after tie-in is completed by the HVAC contractor.

6.9.16 Should electricians be required to supervise and maintain electrical equipment required for the provision of heat, the payment for the services of the supervisors and/or maintenance personnel shall be the responsibility of the electrical contractor. Should the proper type of electric service not be available to supply electrical energy for the operation of the heating system in supplying temporary heat, it shall be the responsibility of the electrical contractor to provide a motor-driven generator unit of sufficient capacity, voltage, and phasing to provide uninterrupted service for the operation of the heating system. The general construction contractor shall pay the cost of all fuel consumed in the operation of the generating unit for supplying temporary heat. The electrical contractor shall provide uninterrupted electrical service to the heating, water and pumping equipment.

6.9.17 Valves, traps and other parts of the heating system (except air filters) which are permanently installed by the HVAC contractor and used for supplying heat during the construction period need not be replaced, provided that the system was in acceptable condition prior to its use and was properly maintained. The system shall be properly cleaned and adjusted to operate after the permanent system is in use. Seven calendar days prior to acceptance by the State of the heating system as substantially complete, the HVAC contractor shall replace disposable filters with clean filters of the type specified, or turn over spare sets of filters to the using agency, as directed by the Director.

6.9.18 If plastering, parging or finishing of any surface is necessary to enable the HVAC contractor to install the heating system in a manner to permit its use for supplying heat during the construction period, the finishing, plastering and parging of such surfaces shall be done by the general construction contractor sufficiently in advance of the HVAC contractor's work so as not to delay the installation of the permanent system. In the event this plastering, parging or other finishing work is not completed in ample time to make possible the installation of permanent piping and heating units in a particular area, the HVAC contractor shall install temporary piping and heating units. The cost of such temporary installation and its removal shall be paid by the general construction contractor.

6.9.19 If additional heat is required beyond that specified herein, the contractor requiring such additional heat shall arrange and pay the additional costs thereof, at no expense to the State.

### 6.10 Temporary Enclosures

6.10.1 Whenever necessary in order to maintain proper temperatures for the prosecution or protection of the work, the general construction contractor shall furnish and maintain temporary enclosures for all openings in exterior walls that are not enclosed with finished materials. Temporary wood doors shall be provided at door openings.

### ARTICLE 7

### SUBCONTRACTORS

- 7.1 Contractor Subcontractor Relationship
- 7.1.1 Within 30 calendar days after award of the contract, each contractor shall provide written notification to the Director, through the architect/engineer, of the names of subcontractors, other than those required to be listed in the bid, proposed to perform the principal parts of the work and of such others as the Director may direct. Contractors shall not employ any subcontractor without prior written approval of the Director, or any subcontractor that the Director may reject within a reasonable time. The original and six copies of the appropriate DBC form shall be forwarded to the architect/engineer for approval. The list of proposed contractors may be considered approved by the Director if no reply is forwarded to the contractor within 15 calendar days following receipt of the list by the Director.
- 7.1.2 If the Director has reasonable objection to any such proposed subcontractor, the contractor shall substitute another subcontractor to which the Director has no reasonable objection. Under no circumstances shall the State be obligated for additional cost due to such substitution.
- 7.1.3 The contractor shall make no substitution for any subcontractor, person or firm previously selected and approved, without written notification to the Director and receipt of the Director's written approval for such substitution.
- 7.1.4 Each contractor acknowledges its full responsibility to the State for the acts and omissions of its subcontractors, and of persons and firms either directly or indirectly employed by them, equally to the extent that the contractor is responsible for the acts and omissions of persons and firms directly or indirectly employed by it. Each contractor acknowledges that it remains fully responsible for the proper performance of its contract irrespective of whether work is performed by the contractor's own forces or by subcontractors engaged by the contractor.
- 7.1.5 Nothing contained in the contract documents shall create any contractual relationship between any subcontractor and the State.
- 7.1.5 By an appropriate agreement, written where legally required for validity, the contractor shall require each subcontractor, to the extent of the work performed by the subcontractor, to be bound to the contractor by the terms of the contract documents, and to assume toward the contractor all the obligations and responsibilities which the contractor, by these documents, assumes toward the State, the architect/engineer and the other separate prime contractors. Where appropriate, the contractor shall require each subcontractor to enter into similar agreements with its sub-subcontractors.
- 7.1.7 The contractor and all subcontractors agree that, in the employment of both skilled and unskilled labor, preference shall be given to residents of the State of New Jersey, if such labor force is available.
- 7.1.8 Approval by the Director or architect/engineer of a subcontractor or material supplier shall not relieve the contractor, the subcontractor or the material supplier of the responsibility of complying with all provisions of the contract documents. The approval of a subcontractor does not imply approval of any material, equipment or supplies.

### ARTICLE 8.

# RELATIONSHIP BETWEEN OWNER AND PRIME CONTRACTORS

## 8.1 Owner's Right to Perform Work

- 8.1.1 The State may, and reserves the right to, enter upon the premises at any and all times during the progress of the work, or cause others to do so, for the purpose of installing any apparatus or carrying on any construction not included in these specifications or for any other reasonable purpose.
- 8.1.2 Each contractor shall examine all work or materials installed by other contractors, the installation of which may affect the work in its contract, and should the same be imperfect, incorrect or insecure, the contractor shall notify the Director immediately in order that the same be rectified.

# 8.2 Mutual Responsibility

- 8.2.1 Each contractor shall afford the Director and other separate contractors reasonable opportunity for the introduction and storage of their materials and equipment and the execution of their work. Each contractor shall coordinate its work with adjacent work and with other trades, so that no portion of the work is delayed or not properly undertaken due to such lack or failure of cooperation.
- 8.2.2 Each contractor shall lay out and install its work at such time or times and in such manner as to facilitate the general progress of the project.
- 8.2.3 If, based on a written report by the general construction contractor regarding another prime contractor or a written report of a prime contractor regarding the general construction contractor or upon notification from the CPM consultant, the Director is of the opinion that a contractor on the project is failing to coordinate its work with the work of another contractor or others or is delaying the project, the Director may issue such directions to the delinquent contractor(s) as the situation may require, including an order to accelerate as provided in section 8.5 herein. The State, however, shall not be liable for any damages suffered by any contractor by reason of another contractor's default, delinquency or timing of performances; it being understood that the State does not assume responsibility for the acts or omission of any contractors.
- 8.2.4 Before the completion of the work contemplated herein, should it be deemed necessary by the State to do any work whatsoever in or about the building or structure, other than as provided for in the contract documents, the contractor shall fully cooperate with such other individual or firm as the State may employ to do such work, so that such additional work may be performed without unreasonable interference. The contractor shall afford said other individual or firm all reasonable facilities for doing such work. Other than for an extension of time, the contractor shall make no claim to the State as a result of such work as is contemplated herein.
- 8.2.5 The Director shall at all times have access to the work whether it is in preparation or in progress, and the contractor shall provide proper facilities for such access and for inspection. The Director reserves the option to employ the services of a professional consultant to evaluate any phase of the work deemed to be in the best interest of the State, but no evaluation performed shall in any way relieve the contractor of its responsibilities under the contract. The contractor shall cooperate with the consultants and provide access to the work and facilities for inspection. Should any portion of the work or materials be found deficient or defective, the contractor will pay the applicable fees of such consultant and be responsible for replacing the deficient or defective work as required by the provisions stated elsewhere herein.
- 8.2.5 Any costs caused by defective or ill-timed work shall be borne by the responsible party.
- 8.2.7 If the contractor should destroy, damage or disturb the work of any other contractor in or about the building or premises, the contractor shall immediately either replace the destroyed work and make good the damaged and disturbed work to the satisfaction of the architect/engineer and the Director, or shall reimburse the contractor whose work has been destroyed, damaged or disturbed for the expense of replacing such work.

8.2.8 Should a contractor sustain any damage through any act or omission of any other contractor having a contract with the State, or through any act or omission of a subcontractor of any such contractor, or through any act or omission of the architect/engineer, the contractor shall have no claims against the State for such damage, but shall have a right of action to recover such damages from the causing party or parties, in accordance with section 8.4.2, which is included in the State's contract with all other such contractors and the architect/engineer.

### 8.3 Substantial Completion

- 8.3.1 At the request of the State, the architect/engineer, the contractor and the using agency representative shall make a joint inspection of the work, and if all determine that the work is substantially completed, the State shall give Notice of Substantial Completion for Beneficial Use. Such certification shall in no way relieve the contractor of any contractual obligation or in any way relieve the contractor from responsibility to promptly complete punch list work.
- 8.3.2 Standard guarantee period for equipment, workmanship and materials shall commence on the date of acknowledgment of substantial completion of the project or portions thereof so certified, or from the time of completion and acceptance of equipment, work or materials in question, whichever is later, unless specified to the contrary as a condition of partial acceptance.
- 8.3.3 Use and possession prior to completion: The State shall have the right to take possession of or use any completed or partially completed part of the work. Prior to such possession or use, the Director shall turnish the contractor with an itemized list of work remaining to be performed or corrected on such portions of the project as are to be possessed or used by the State, provided that failure to list any item of work shall not be deemed an acceptance of any work under the contract. While the State has such possession or use, the contractor, notwithstanding the provisions of section 4.5 of this contract entitled "Permits Laws Regulations," shall be relieved of the responsibility for the loss or damage to the work resulting from State possession or use. If such prior possession or use by the State delays the progress of the work or causes additional expense to the contractor, an equitable adjustment in the contract time of completion will be made and the contract shall be modified in writing accordingly.

## 8.4 Contractor's Claims for Damages

- 8.4.1 Any claims made by a contractor against the State for damages or extra costs are governed by and subject to the New Jersey Contractual Liability Act, N.J.S.A. 59:13-1 et seq., as well as all the provisions in this contract.
- 8.4.2 Any contractor or architect/engineer having, or which shall hereafter have, a contract with the State, which by its own acts, errors or omissions, damages or unnecessarily delays the work of the owner or other contractors by not properly cooperating with thern or by not affording them reasonably sufficient opportunity or facility to perform work as may be specified, by reason of which act, error or omission of the said contractor, the architect/engineer or any other contractor shall sustain damages, including delay damages, during the progress of the work hereunder, then and in the event, the culpable party agrees to pay all costs and expenses incurred by the damaged contractor(s) or architect/engineer due to any such delays and/or damages whether by settlement, compromise or arbitration and the injured contractor or architect/engineer shall have a right to redress enforcement in court directly against the culpable party. In addition, the culpable party agrees to defend, indemnify and save harmless the State from all such claims and damages. Nothing contained in this paragraph shall be construed to relieve the culpable contractor or architect/engineer from any liability or damage sustained on account of such acts, errors or omissions.
- 8.4.3 The State shall not be liable to any contractor for any damages or extra costs caused by any acts or omissions as specified in the above paragraph, and the contractor's exclusive remedy shall be against the culpable party.

# 8.5 Director's Right to Accelerate

3.5.1 The Director may order and direct the contractor responsible for delay as described in section 8.2.3 of this document or as may be apparent as a result of observation of the work, to

accelerate that contractor's work at any particular place or places by increasing its forces, working overtime and/or on Saturdays, Sundays, and holidays as may be required to enable others to carry on with their own work in accordance with the project progress schedule. The cost of such acceleration efforts shall be borne entirely by the responsible contractor and shall not be billed to the State.

# 8.6 Time of Completion - Delay - Liquidated Damages

8.6.1 In the event of the failure of the contractor to complete the said work within the time stated in its proposal, the contractor shall be liable to the State in the sum of \$250.00 per day, or the sum equal to 1/20 of one percent (0.05 %) per day of the total consideration provided for under this contract, or that sum mentioned in the contract, whichever is greater, for each and every calendar day that the said work remains incomplete. This sum shall be treated as liquidated damages (and not a penalty) for the loss to the State of the use of premises in a completed state of construction, alteration or repair, and for added administrative and inspection costs to the State on account of the delay; provided, however, that the said liquidated damages shall be in addition to other consequential losses or damages that the State may incur by reason of such delay, such as, but not limited to, added costs of the project and the cost of furnishing temporary services, if any. Any such sums for which the contractor is liable may be deducted by the State from any monies due or to become due to the contractor.

- B.5.2 It is hereby understood and mutually agreed by and between the contractor and the State that the date of the initiation, the dates of required intermediate milestones, and the time for completion, as specified in the contract of the work to be done hereunder are essential conditions of this contract.
- 8.6.3 The contractor agrees that said work shall be prosecuted regularly, diligently, and uninterruptedly at such rate of progress as will ensure full completion thereof within the time specified. It is expressly understood and agreed, by and between the contractor and the State, that the time for the completion of the work herein is a reasonable time, taking into consideration the average climatic range and usual industrial conditions prevailing in this locality. If the said contractor shall neglect, fail or refuse to complete the work within the time herein specified, or any proper extension thereof granted by the Director, then the contractor does hereby agree, as a part consideration for the awarding of its contract, to pay the State the amount specified in section 8.6.1 above, not as a penalty but as liquidated damages for such breach of contract as hereinafter set forth, for each and every calendar day that the contractor may be held in default after the stipulated date in the contract for completing the work.
- 8.6.4 The said amount is fixed and agreed upon by and between the contractor and the State because of the impracticability and extreme difficulty of fixing and ascertaining the actual damages the State would in such event sustain, and said amount is agreed to be the amount of damages which the State would sustain, and said amounts shall be retained by the State as necessary to cover projected untimely completion of the contract work due to contractor-caused delays.
- 8.6.5 It is further agreed that time is of the essence of each and every portion of this contract and of the specifications wherein a definite and certain length of time is fixed for the performance of any act whatsoever; and where under the contract an additional time is allowed for the completion of any work, the new time limit fixed by such extension shall be of the essence of this contract.
- 8.6.6 If job progress has been adversely affected by nonattendance of any contractor at a scheduled job meeting of which it has been duly notified, such adverse effect shall be considered as job delay, and the contractor shall be subject to payment of damages to the State in an amount not to exceed \$100.00 for each occurrence.
- 8.6.7 The contractor shall not be charged with liquidated damages, or any excess cost when the State determines that the contractor is without fault and the contractor's reasons for the time extension are acceptable to the State; provided further, that the contractor shall not be charged with liquidated damages or any excess cost when the delay in the completion of the work is due:
  - a. To any preference, priority or allocation order duty issued by the government;

- b. To unforeseen cause(s) beyond the control and without the fault or negligence of the contractor including, but not restricted to, acts of God or of the public enemy, acts of the State, acts of another contractor in the performance of a contract with the State which acts are contrary to the terms of such contract, fires, flood, epidemics, quarantine restrictions, strikes, freight embargoes and severe weather, and
- c. To any delays of subcontractors or suppliers occasioned by any of the causes specified in the immediately preceding subsections a. and b.

8.6.8 The contractor shall, within five calendar days from the beginning of such delay, unless the Director shall grant a further period of time prior to the date of final settlement of the contract, notify the State in writing of the causes of the delay. The Director shall first ascertain the facts and the extent of the delay and shall notify the contractor within a reasonable time that good cause has been shown to warrant the granting of such extension.

# 8.7 No Damage for Delay

8.7.1 The State shall have the right to defer the beginning or to suspend the whole or any part of the work herein contracted to be done whenever, in the opinion of the Director, it may be necessary or expedient for the State to do so. If the contractor is delayed in the completion of the work by act, neglect or default of the State, of the architect/engineer or of any of the contractors employed by the State upon the work; by changes ordered in the work; by strikes, lockouts, fire, unusual delay by common carriers, unavoidable casualties or any cause beyond the contractor's control; or by any cause which the Director shall decide to justify the delay; then for all such delays and suspensions, the contractor shall be allowed one calendar day addition to the time herein stated for each and every calendar day of such delay so caused in the completion of the work as specified in section 8.6 above, the same to be determined by the Director, and a similar allowance of extra time will be made for such other delays as the Director may find to have been caused by the State. No such extension shall be made for any one or more of such delays unless, within ten calendar days after the beginning of such delay, a written request for additional time shall be filed with the Director. Apart from extension of time, no payment or allowance of any kind shall be made to the contractor as compensation for damages on account of hindrance or delay from any cause in the progress of the work, whether such delay be avoidable or unavoidable.

8.7.2 The contractor shall not be entitled to any damages or extra compensation from the State on account of any work performed by the State or any other contractor or the architect/engineer or any other party, or by reason of any delays whatsoever, whether caused by the State or any other party including, but not limited to, the delays mentioned in this contract.

#### 8.8 Indemnification

8.8.1 The contractor shall assume all risk of and responsibility for, and agrees to indemnify, defend and save harmless the State of New Jersey and its employees from and against, any and all claims, demands, suits, actions, recoveries, judgment and costs of expenses in connection therewith on account of the loss of life, property, injury or damage to the person, body or property of any person or persons whatsoever, resulting from the performance of the project or through the negligence of the contractor, or through any improper or defective machinery, implements or appliances used by the contractor in the project, or through any act or omission on the part of the contractor or its agents, employees or servants, which shall arise from or result directly or indirectly from the work and/or materials supplied under this contract. This indemnification obligation is not limited by, but is in addition to, the insurance obligations contained in this agreement.

3.8.2 In any and all claims against the State or the architect/engineer or any of their agents or employees by any employees of the contractor or subcontractor or anyone directly or indirectly employed by any of them, or anyone for whose acts any of them may be liable, the indemnification obligation under this section 8.8 shall not be limited in any way as to the amount or type of damages compensation or benefits payable by or for the contractor or any subcontractor under workers' or workmen's compensation acts, disability benefit acts, or other employee benefit acts.

# 8.9 Contract Time - Notice to Proceed

- 8.9.1 Contract time shall commence on the date of the contractor's receipt of a written Notice to Proceed issued by the Director. The Notice to Proceed will be issued by the State after the Director's receipt and acceptance of properly executed contract documents, including performance and payment bonds. Unless otherwise ordered by the Director in writing, the contractor shall initiate its contract work at the site no later than 30 calendar days after its receipt of the Notice to Proceed.
- 8.9.2 Provided the contract is not terminated pursuant to section 3.2 of the Instructions to Bidders if, in the opinion of the Director, the contractor's delay in furnishing financial responsibility and performance or payment bonds causes a delay in the issuance of the Notice to Proceed, the time to complete the work as specified in the contract may be reduced to reflect such delay.
- 8.9.3 The contractor shall perform no work under this contract until the required evidence of financial responsibility and bonds has been furnished. Thereafter, work at other than the contract site may be undertaken. The contractor shall perform no work at the contract site except pursuant to a Notice to Proceed given by the Director.
- 8.9.4 A Notice to Proceed may be issued by the State at its convenience. Any right of the contractor to any adjustment because of a delay in issuing a Notice to Proceed shall be determined in accordance with section 2.1 entitled "Director's Right to Stop Work."

#### ARTICLE 9

#### CONSTRUCTION PROGRESS

### 9.1 CPM Consultant

9.1.1 The State may have contracted for the services of a Critical Path Method (CPM) scheduling consultant for project planning, scheduling and control. If such has been arranged, then section 9.3 shall be applicable. In the event that a CPM consultant has not been retained by the State, then section 9.2 shall pertain. In the absence of a statement in the bid documents that a CPM consultant has been retained, the contractor shall assume that there will be no CPM consultant associated with the project.

## 9.2 Construction Progress Schedule (No CPM)

- 9.2.1 This program shall be completed within the specified number of calendar days from date of execution of the Notice to Proceed.
- 9.2.2 The general construction contractor shall be responsible for preparing and furnishing to the Director through the architect/engineer, before the first contract requisition date or other date specified by the State, a coordinated combined progress schedule which incorporates the progress schedules of all prime contractors engaged on the project. The schedule shall be in the form of an arrow network diagram, bar chart or other recognized graphic progress schedule format, in sufficient detail to satisfy the architect/engineer and the Director.
- 9.2.3 The general construction contractor shall submit copies of its initial draft of this schedule to all prime contractors. Each prime contractor shall then prepare a progress schedule for its own work, properly coordinated with the general construction contractor's initial draft, and then submit to the general construction contractor for its preparation of the final draft of a single coordinated progress schedule. Contract requisitions will not be processed by the State until and unless such a single coordinated progress schedule has been submitted to and approved by the architect/engineer and the Director. This submission shall be no later than thirty 30 calendar days after the award of the contract. If any contractor delays its submission, the project schedule will be submitted without this input and any payments otherwise due the contractor will be withheld pending compliance.
- 9.2.4 The progress schedule, based upon the contractor's logic and time estimates, shall indicate in suitable detail for display, all significant features of the work of each contractor, including the placing of orders and anticipated delivery dates for critical items, submissions and approvals of shop drawings, all work activities to be performed by each contractor, the beginning and time duration thereof, and the dates of substantial and final completion of the various branches of the work.
- 9.2.5 Immediately upon such approval, the general construction contractor shall prepare and distribute ten copies of the progress schedule to the Director plus two copies to each prime contractor and to the architect/engineer. In the event a new prime contractor is added to the job, the general construction contractor shall furnish a revised schedule immediately with copies as indicated. The final coordinated schedule shall be signed and dated by all prime contractors involved.
- 9.2.6 Each contractor shall furnish sufficient labor and construction plant and equipment to ensure the prosecution of the work in accordance with the project schedule. If the latest completion time for any significant job does not come within the time allowed by the project schedule, the sequence of jobs and/or the time for performance of jobs shall be revised by the contractor and the general construction contractor through concurrent operations, additional manpower, additional shifts, overtime, etc. until it is assured that the contract completion date will be met. No additional charges to the State will be allowed the contractor(s) for overtime, additional manpower, equipment, additional shifts, etc. (except as may be provided elsewhere in the contract), if such expediting procedures or measures are necessary to meet the agreed completion date.
- 9.2.7 Each contractor agrees that it will make no claim for, and have no right to, additional

payment or extension of time for completion of the work, or any other concession because of any misinterpretation or misunderstanding on the contractor's part of the project schedule, the contractor's failure to attend the pre-bid conference, or because of any failure on the contractor's part to become fully acquainted with all conditions relating to the project schedule and the manner in which it will be used on the project, or because of any other contractor's failure to properly participate in the development of a schedule or to perform the contract in accordance with the schedule.

# 9.3 Construction Progress Schedule (CPM)

# 9.3.1 Critical Path Method (CPM):

- a. The project shall be monitored by a detailed critical path method scheduling system. This system shall be the basis for the evaluation of all contractors' performance and for progress payments to all contractors.
- b. The CPM consultant shall be retained by DBC. The duty of the CPM consultant is to aid all contractors in efficiently coordinating their work. If the CPM consultant becomes aware of any inefficiencies, it shall report same to DBC. If such inefficiencies cannot be voluntarily resolved among the contractors, the matter shall be referred to the DBC representative on the project. The Director shall order the resolution of the problem by requiring each contractor to undertake certain activities to ameliorate the inefficiency. The CPM consultant is not an agent of the State but is an independent contractor.
- c. All contractors shall provide all the information necessary for the CPM consultant employed by DBC to develop a CPM network plan demonstrating complete fulfillment of all construction contract requirements as necessary for the CPM consultant to keep the network plan up to date in accordance with the requirements of this section. Construction logic and activity time duration shall be established by all contractors consistent with contract requirements and reflective of proper coordination between trades. The level of detail to be reflected on the CPM schedule shall be established by the CPM consultant. All contractors shall utilize the plan in planning, coordinating and performing the work under this contract (including all activities of subcontractors, equipment vendors and suppliers).
- d. A pre-bid conference will be conducted at the discretion of DBC to explain to prospective bidders how this section will be implemented and to answer questions regarding the scheduling operations.
- e. Upon completion of the CPM system, as defined in this section, all contractors agree that the CPM consultant's project network schedule is the designated plan for completion of all work in the allotted time, and each contractor will assume full responsibility for the prosecution of the work as shown. All contractors shall indicate formal acceptance of the schedule by signing the finalized initial network diagrams and computer schedule listing.
- f. All contractors shall furnish sufficient labor and construction plant and equipment to ensure the prosecution of the work in accordance with the approved progress schedule. If, in the opinion of the Director, a contractor falls behind the progress schedule, the contractor shall take such steps as may be necessary to improve its progress, and the Director may require the contractor to increase the number of shifts, days of work and/or the amount of construction plant and equipment, all without additional cost to the State and as provided in section 8.5.1.

# 9.3.2 Initial Submittal

a. To the extent necessary for the CPM consultant to reflect in the arrow diagrams the plan for completion of this contract, all contractors shall meet with and assist the CPM consultant and furnish, within ten calendar days after award of this contract, all necessary information for the preparation of the scheduling system. This information shall include, but not necessarily be limited to a logical sequencing of work operations, activity time estimates, intended crew flow, activity costs and estimated manpower requirements for each activity.

The contractor shall be responsible to reflect on the network diagram all subcontractor work, as well as its own work, in proper coordinated sequence with the work of all other prime contractors and their subcontractors. The contractor shall be prepared to meet as many times as necessary with the CPM consultant and all other prime contractors to develop the information required for the timely development of the project CPM schedule.

The initial CPM schedule that is submitted to DBC will show a coordinated plan for work for all contractors, thereby providing a common basis of acceptance, understanding, and communication. This schedule shall be approved by all prime contractors prior to submittal for DBC review. The CPM consultant will submit for DBC review an arrow diagram describing the activities to be accomplished and their dependent relationships, together with a computer-produced calendar-dated schedule showing starting and completion dates for each work item. All completion dates shown shall be within the period specified for contract completion and in compliance with all intermediate milestones.

In conformance with article 10 of these General Conditions relating to "Payments," each prime contractor shall furnish a breakdown of the total contract price by assigning dollar values (costs estimates) to each applicable network activity, which cumulatively equals the total contract amount. Upon acceptance by DBC, the values will be used as a basis for determining progress payments. The contractor's overhead and profit shall be prorated through all activities. Progress payments to the contractor shall be dependent upon final acceptance by DBC of the costed CPM system.

- b. The arrow diagram shall show the sequence and interdependence of activities required for complete performance. In preparing the arrow diagram, all contractors shall assist the CPM consultant by breaking up the work into activities of a duration of no longer than ten working days each, except as to nonconstruction activities (such as procurement of materials, delivery of equipment and concrete curing) and any other activities for which the consultant may approve the showing of longer duration. The diagram shall show not only the activities for actual construction work for each category of the project but also such activities as the contractor's submittal of shop drawings, templates and equipment, material fabrication, delivery of equipment and material, and the delivery of owner-furnished equipment, if applicable. Activity duration (i.e., the contractor's single best estimate, considering the scope of the activity) shall be furnished by the contractor to the CPM consultant for each activity on the diagram. If requested by the CPM consultant, the contractor shall furnish any information needed to justify the reasonableness of activity time duration. Such information shall include, but not be limited to, estimated activity manpower, unit quantities, and production rates. To the extent that the arrow diagram or revised arrow diagram shows anything not jointly agreed upon or fails to show anything jointly agreed upon, it shall not be deemed to have been approved by DBC. Failure by either the contractor or the CPM consultant to include any element of work required for the performance of the contract shall not excuse the contractor from completing all work required within any applicable date, notwithstanding DBC approval of the arrow diagrams. The level of detail to be reflected in the CPM system shall be established by the CPM consultant.
- c. Seasonal weather conditions shall be considered in the planning and scheduling of all work influenced by high or low ambient temperatures for the completion of all contract work within the allotted contract time. In addition, appropriate allowances shall be made for anticipated time losses due to normal rain and snow conditions by statistically expanding the estimated time duration for weather sensitive activities.

Accompanying the arrow diagram and computer scheduling listing, the CPM consultant shall furnish a computer-generated cost requisition listing, which shall

provide a separate tabulation of each activity shown on the CPM schedule in order of bid item or trade responsibility code as agreed to by DBC. This listing shall show, for each activity, the estimated dollar value of work in place for totally or partially completed activities, including subtotals by bid items and grand totals for the entire project. The cost requisition listing shall also contain monthly activities reflecting the cost of project overhead and administrative expenses, and activities reflecting the monthly cost of administering project General Conditions.

The cost requisition listing shall generate the contractor's monthly payment requisition directly from the CPM updating, utilizing the cost information furnished by the contractor and approved by DBC, and current project status determined in accordance with the requirements of section 9.3.4.

## 9.3.3 Review and Approval:

Within ten calendar days after receipt of the initial arrow diagram, computer-produced schedule and cost requisition listing, the DBC representative shall meet with the contractor and CPM consultant for joint review, correction, or adjustment of the proposed plan and schedule to evaluate the cost values assigned to each activity. Within ten calendar days after the joint review, the CPM consultant will revise the arrow diagram and/or computer-produced schedule in accordance with agreements reached during the joint review, and shall submit two copies each of the revised arrow diagram, computer-produced schedule and cost requisition listing to DBC. The resubmission will be reviewed by DBC and, if found to be as previously agreed upon, will be approved. An approved copy of each will be returned to the CPM consultant. Each contractor shall approve the schedule at that time. However, if any contractor objects to the schedule to be adopted, the contractor shall, within ten calendar days, state these objections in writing to the Director, specifying the precise position of the schedule to which the contractor objects and the reasons therefor, and identifying the basis of the objection. Each contractor will be deemed to have accepted the schedule as adequate, proper and binding in all respects and shall not raise objections to the schedule except to the extent as required in this article. The contractor will then meet with the DBC representative, the CPM consultant, and all other contractors as necessary to develop a contractually compliant schedule which removes all of the contractors' objections. The CPM consultant will revise the arrow diagram and the computer-produced schedule in accordance with the agreements reached during this final review and shall submit two copies each of the revised arrow diagram, computer-produced schedule and cost requisition listing to DBC. The resubmission will be reviewed by DBC and, if found to be as previously agreed upon, will be approved. An approved copy of each will be returned to the CPM consultant. Each contractor shall review the schedule to ensure that it reflects all charges agreed to and if all changes have been made, each contractor shall approve and sign the network diagrams, computer-produced schedule and cost requisition listing at that time. Approval will be without reservation, and each contractor will be deemed to have accepted the schedule as adequate, proper and binding in all respects and shall not raise objections to the schedule. After the network diagrams and computer-produced schedule have been signed, the CPM consultant shall forward to each contractor one set of copies of the network diagrams and computerproduced schedule. The arrow diagram and the computer-produced schedule with approved signatures shall constitute the project work schedule until subsequently revised in accordance with the requirements of this section.

# 9.3.4 Progress Reporting and Changes:

- a. Once every month, or more often if required by DBC, all contractors shall meet with the CPM consultant and DBC's representative(s) and provide the information necessary for the CPM consultant to prepare and submit to DBC a revised (updated) arrow diagram and computer-generated schedule listing showing:
  - Approved changes in activity sequencing;
  - (2) Changes in activity duration for not started or partially completed activities where agreed upon;

- (3) The effect to the network of any delays in any activities in progress, and/or the impact of known delays which are expected to affect future work;
- (4) The effect of contractor modifications (activity duration, logic and cost estimates) to the network;
- (5) Changes to activity logic, where agreed upon, to reflect revision in the contractor's work plan, i.e., changes in activity duration, cost estimates, and activity sequences for the purposes of regaining lost time or improving progress; and
- (6) Changes to milestones, due dates, and the overall contract completion date which have been agreed upon by DBC since the last revision of the CPM schedule.

The CPM schedule shall accurately reflect the manner in which the contractors intend to proceed with the project and shall incorporate the impact of all delays and change orders as soon as these factors can be defined. All changes made to the schedule shall be subject to approval by DBC prior to inclusion in the CPM schedule. If the DBC representative and the contractor are unable to agree as to the amount of time to be allowed for change order work, or the manner in which the work is to be reflected on the arrow diagram, the CPM consultant shall reflect the logic and time duration furnished by the contractor for the change order work pending final DBC decision. If non-approved contractor logic and time duration are used, the contractor agrees that any time which is projected to be lost on the project as a result of these schedule changes will be considered the responsibility of the contractor until a final agreement has been made or a final decision rendered by DBC regarding the manner in which the change order work is to be reflected on the schedule. When this final decision has been made by DBC, the CPM consultant shall revise the CPM schedule in accordance with such decision and issue a final analysis of the effect of the change on the project.

If the contractor desires to revise the logic of the approved CPM schedule so as to reflect a sequence of construction which differs from that originally agreed to, the contractor must first obtain the approval of the general construction contractor and all contractors whose work may be affected by the changes, and then must obtain the approval of DBC. If this change extends the completion date of the project or delays the work of other trades, the contractor agrees that these impacts and all associated costs will be considered a claim to be assessed against the contractor initiating the change and will not be the basis for a project time extension.

b. Once each month, at the same time the network is updated, the CPM consultant, the contractor and the DBC representative(s) shall jointly make entries on the proceeding network diagram schedule to show actual progress, identify those activities started by date and those completed by date during the previous period, show the estimated time required to complete each activity started but not yet completed, show activity percent completed and/or dollars earned, and reflect any changes in the arrow diagram approved in accordance with the preceding paragraph. After completion of the joint review and DBC's approval of all entries, the CPM consultant will submit updated network diagrams, an updated computer-produced calendar-dated schedule and cost requisition listing to DBC and all contractors.

The resultant monthly CPM computer printout and network diagrams shall be recognized by the contractor as its sole updated construction schedule to complete all remaining contract work, except that portion affected by interim DBC decision.

c. In addition to the foregoing, once each month all contractors will receive a narrative report prepared by the CPM consultant. The narrative report will include a description of the amount of progress during the last month in terms of completed activities in the plan currently in effect, a description of problem areas, current and anticipated delaying factors and their estimated impacts on the performance of other activities and completion dates, and recommendations on corrective action for the contractor. Within seven calendar days after receipt of this report, the contractor shall submit to DBC a written explanation of corrective action taken or proposed. The Director, after reviewing written submissions, shall make a decision binding all parties.

# 9.3.5 Payments to Contractor.

- a. The monthly submission of the computer-produced calendar-dated schedule shall be an integral part and basic element of the estimate upon which progress payments shall be made pursuant to the provisions of article 10 of these General Conditions. The contractor shall be entitled to progress payments only upon receipt by DBC of an updated computer-produced calendar-dated schedule and cost requisition listing as mentioned under 9.3.4b above.
- b. Payments to all contractors shall be based upon the results of the computer-generated cost requisition listing which shall be prepared in conjunction with each updating of the CPM system as described above. Wherever required by the DBC-authorized representative, the contractors shall provide sufficient documentation to confirm reported progress for any costed items appearing in the scheduling and requisition system (e.g., bills of lading for delivered material and equipment).
- c. Payments to contractors shall be dependent upon the contractor furnishing all of the information and data which in the judgment of DBC is necessary to ascertain actual progress, and all the information and data necessary to prepare any necessary revisions to the computer-produced calendar-dated schedule, cost requisition listing and/or the network arrow diagram. DBC's determination that the contractor has failed or refused to furnish the required information and data shall constitute a basis for withholding payments until the required information and data is furnished and the schedule and/or diagram is prepared or revised on the basis of such information and data.

# 9.3.6 Biweekly Progress Meetings:

a. Every two weeks the CPM consultant will conduct a coordination and scheduling meeting on the job site. At this meeting, each contractor shall provide detailed information regarding the work schedule to be performed during the upcoming two weeks so that the CPM consultant can prepare bar chart schedules for the period. Biweekly scheduling by the contractors shall be in accordance with the priorities and degree of concurrent work required by the official CPM schedule for the project. Each contractor shall be prepared to explain any difference between the contractor's biweekly schedules and the priorities required by the latest updating of the official CPM schedule.

At the biweekly scheduling meeting, the CPM consultant shall review the bar charts for the proceeding two weeks, and each contractor shall report the progress actually achieved for each activity which was scheduled to be performed during the two weeks, including the actual dates on which the work was performed. All contractors agree that this information shall constitute the official historical record of project progress.

At each biweekly scheduling meeting, each contractor shall document any current delays to work operations. In addition, contractors shall provide any available information regarding any potential delays which they anticipate (i.e., procurement delay s, expected strikes, etc.).

b. Following the biweekly scheduling meeting, the CPM consultant shall issue to each contractor a set of biweekly bar charts as developed at the meeting which shall constitute the construction schedule for the coming two weeks. The CPM consultant shall also issue a narrative biweekly progress analysis documenting progress achieved during the preceding two weeks and analyze delays reported to constitute current or anticipated impacts to timely construction.

c. Each prime contractor shall be represented at the biweekly scheduling meeting by its project manager, who shall have complete authority to provide the information required for the development of the next two weeks bar chart schedule, documentation of past progress and documentation of delays. Contractor representatives shall also be authorized to discuss at these meetings corrective action planned to overcome delaying conditions.

# 9.3.7 Responsibility for Completion:

Each contractor agrees that whenever it becomes apparent from the current monthly computer-produced calendar-dated schedule that any contract completion date will not be met, the contractor will take some or all of the following actions at no additional cost to the State:

- a. Increase construction manpower in such trades and numbers as will substantially eliminate, in the judgment of the Director, the backlog of work.
- Increase the number of working hours per shift, shifts per working days, working days per week, or the amount of construction equipment, or any combination of the above sufficiently to substantially eliminate, in the judgment of the Director, the backlog of work; and/or
- Reschedule activities to achieve maximum practical concurrence of accomplishment of activities.

# 9.3.8 Adjustment of Contract Completion Time:

- a. The contract completion time or times will be adjusted only for causes specified in this contract. In the event a contractor requests an extension of any contract completion date, the contractor shall furnish such justification and supporting evidence that DBC requires to evaluate the contractor's request. The Director shall then make a finding of fact and advise the contractor in writing thereof. If the Director finds that the contractor is entitled to any extension of any contract completion date under the provisions of this contract, the determination as to the total number of calendar days extension shall be based upon the currently approved computer-produced calendar-dated schedule and on all data relevant to the extension. Such data will be included in the next updating of the schedule.
- b. Two types of time extensions may be issued for this project as follows:
  - (1) A total project time extension may be issued if delays which are determined to be beyond the control of the contractor affect the main project critical path shown on the CPM schedule, thereby directly extending the final project completion date.
  - (2) A concurrent project time extension may be issued in those instances where it is found that specific delays beyond the control of the contractor would have affected the final project completion date were it not for overriding delays due to other causes. If a concurrent project time extension is issued, it will cover that time which would have been lost due to the specific issues cited if no other delays have occurred, according to the CPM consultant's analysis. A concurrent project time extension will also excuse the contractor from responsibility for liquidated damages for the period of time extension.
- c. All contractors acknowledge and agree that the evaluation of project delays and determinations regarding project time extension will be based upon the project CPM schedule and the following criteria:
  - (1) Float time shown on the CPM schedule is not for the exclusive use of either the contractor or DBC. It is agreed that float time is available for use by all

parties to facilitate the effective use of available resources and to minimize the impact of problems of change orders which may arise during construction. Each contractor specifically agrees that float time may be used by DBC or their representatives or consultants in conjunction with their review activities or to resolve project problems. Each contractor agrees that there will be no basis for a project time extension as a result of any project problem, change order or delay which only results in the loss of available positive float on the project CPM schedule. Each contractor further agrees that there will be no basis for a claim for cost escalation for any activity which is completed on or before its initially required late end date as shown on the initial approved CPM schedule, regardless of the justifiability or any delaying factors which might have resulted in the elimination of float which was originally available for the activity. Float time shown on the CPM schedule shall not be used arbitrarily by any contractor in a manner which, in the opinion of the Director, unnecessarily delays other contractors from proceeding with their work in a way which is detrimental to the interests of the State. If any contractor refuses to perform work which is available to it, the Director may, regardless of the float shown to be available for the work, consider the contractor to be in violation of the contract documents. In such instances, the Director may, without prejudice to any right or remedy, and after giving the contractor and its surety a three working day written notice to forthwith commence and continue with the work with diligence and promptness, terminate the employment of the contractor by the issuance of a written notice to that effect to the contractor and its surety at any time subsequent to three working days thereafter, should either or both of them fail to comply with the directive of the original three working day notice mentioned above.

(2) Each contractor agrees that no time extension will be granted for time lost due to normal seasonal weather conditions. In order to qualify for consideration for a time extension due to adverse weather conditions, it must be shown that the weather conditions during a given quarterly period (summer, fall, winter, spring) were more severe than the previous five-year average for the project geographical area, and that these weather conditions critically impacted the final project completion date by delaying the performance of work on the main project critical path. If abnormal weather losses can be shown to have affected the project critical path, a noncompensable time extension will be considered for that portion of the proven weather-related delays, which exceeded normal weather losses which should have been anticipated for the quarterly period in question.

No time extensions will be considered for any weather impacts which do not affect work on the main project critical path. Each contractor agrees that there will be no basis for a claim for any additional compensation resulting from any time extension issued for weather-related delays.

- (3) In order for a given issue (i.e., delay, change order, etc.) to be considered as a basis for a total project time extension, it must meet both of the following criteria:
  - (a) It must be totally beyond the control of the contractor and due to no direct or indirect fault of the contractor; and
  - (b) It must result in a direct delay to work on the main project critical path.
- (4) Each contractor acknowledges and agrees that actual delays to activities which, according to the computer-produced calendar-dated schedule, do not directly affect the main project critical path do not have any effect on the contract completion date or dates and will not be the basis for a change therein.
- (5) Concurrent delays are defined as two or more delays or areas of work

slippage which are totally independent of one another and which, if considered individually, would each affect the final project completion date according to the CPM schedule. Where the CPM consultant determines that concurrent delays exist, each contractor acknowledges and agrees that the following criteria will be used to evaluate time extension:

- (a) If the current CPM schedule shows two or more concurrent delays, with one analyzed to be the responsibility of DBC and the other analyzed to be the responsibility of the contractor, a noncompensable time extension will be considered only if the excusable delay affects the main project critical path and this delay is shown to be a greater amount than the other concurrent delays when their impacts are independently considered. In this event, a compensable time extension will be considered only for that portion of time by which the excusable delay exceeds all concurrent non-DBC caused delays. For example, if an excusable impact delays the project by 100 calendar days and concurrent contract-caused slippage independently delays the final completion date by 90 calendar days, a time extension will only be considered for a maximum of ten calendar days, provided the excusable delay is on the project critical path.
- (b) If the CPM schedule shows concurrent delays with some excusable delays and some the fault of the contractor, and if the contractorcaused delays are analyzed to be the main determining impact to the main project critical path, then there will be no basis for a total project time extension regardless of the nature of the concurrent excusable delays. A concurrent time extension may, however, be considered for that portion of the total project slippage which is shown on the CPM schedule to be totally attributable to excusable delays.
- (c) If a time extension request is being made for concurrent delays which did not affect the project critical path, this must be clearly stated in the contractor's time extension request and all CPM activities which are claimed to have been affected by the cited delay must be specifically identified with all applicable impact dates.

## ARTICLE 10

### PAYMENTS

# 10.1 Contractor Payment Process

10.1.1 The State will make progress payments monthly as the work proceeds, or at more frequent intervals as determined by the Director, on estimates approved by the Director. Unless otherwise directed, the contractor shall furnish a schedule of amounts for contract payments (Unit Schedule Breakdown, Form DBC-12A) of the total contract price, showing the amount included therein for each principal category of the work, in such detail as requested, to provide a basis for determining progress payments. The schedule, as approved, shall be used only as a basis for the contractor's estimates for progress payments, and approval by the Director does not constitute acceptance of the allocability and allowability of costs to a specific element of work. The contractor is cautioned that no payment requests shall be approved until the Unit Schedule Breakdown has been approved in writing by the Director or the Director's authorized representative.

10.1.2 In the preparation of estimates, the Director has the discretion to authorize material delivered on the site and preparatory work done to be taken into consideration. Material delivered to the contractor at locations other than the site may also be taken into consideration if (a) such consideration is specifically authorized by the contract and (b) the contractor furnishes Forms DBC 11-3 and 11-3A entitled "Prime Contractors Summary of Stored Materials" and "Agreement and Bill of Sale Certification for Stored Materials," respectively.

10.1.3 In making such progress payments for contract work completed, the State will retain ten percent of the approved invoice amount until final acceptance and completion of all work covered by the contract.

The contractor may, after 50 percent of the contract work is in place and if such work is proceeding on schedule, apply for a reduction in the amount to be retained by the State for the duration of the contract. Such application must be in writing and accompanied by documentation denoting formal consent of surety to the reduction in retainage. If the Director determines that the contractor's performance has been satisfactory and that the reduction is warranted and appropriate, the State will, with the next progress payment, release any portion of the accumulated retainage in excess of five percent of the adjusted contract amount and retain an amount equal to five percent of the adjusted contract amount for the duration of the contract. If progress of the work is not maintained in accordance with the approved schedule, the Director may elect to reinstitute retainage of ten percent of the work in place for the duration of the contract.

Upon acceptance and completion of each building or other clearly definable severable portion of the contract work for which the price is stated separately within the contract, payment may be made in full at the discretion of the Director, including retained amounts thereon, minus authorized deductions.

All material and work covered by progress payments made shall hereupon become the sole property of the State, but this provision shall not be construed as relieving the contractor from the sole responsibility for all material and work upon which payments have been made, or for the restoration of any damaged work, or as waiving the right of the State to require the fulfillment of all of the terms and conditions of the contract.

10.1.4 If performance or payment bonds are required under this contract, the State shall pay to the contractor the total premiums paid by the contractor to obtain the bonds. This payment shall be paid at one time to the contractor together with the first progress payment otherwise due after the contractor has (1) furnished the bonds (including co-insurance and re-insurance agreements, when applicable), (2) furnished evidence of full payment to the surety company, and (3) submitted a request for such payment. This payment of the bond premiums by the State to the contractor shall not be made as increments of the individual progress payments and shall not be in addition to the contract price.

10.1.5 Upon completion and acceptance of all work, the amount due the contractor under this

contract shall be paid upon satisfactory completion, by the contractor; of all contract close-out requirements, completion of a State audit on all contract values and payments, and after the contractor has furnished the State with a release of claim against the State, arising by virtue of this contract, other than claims in stated amounts as may be specifically excepted by the contractor from the release.

- 10.1.6 Upon satisfying the above conditions, the contractor shall submit a properly executed invoice for final payment to the DBC project representative who will initiate the processing of final payment review and approval. The invoice will be considered properly executed when it is received and time-stamped by DBC's project accounting unit.
- 10.1.7 If for any reason the contractor refuses final payment, the project shall be closed out by the State by the processing of a Final Contract Acceptance certification. All residual funds will be held in escrow by the State until all claims of the State and all contractors are satisfied.
- 10.1.8 In addition to other warranties required by provisions of the contract and specifications, the contractor warrants that title to all work, materials and equipment covered by an application for payment will pass to the State, either upon incorporation into the construction or upon receipt of payment by the contractor, whichever occurs first, free and clear of all liens, claims, security interests or encumbrances. This provision shall not be construed as relieving the contractor from sole responsibility for the care and protection of materials and work upon which payments have been made, or for the restoration of any damaged work, or as a waiver by the State of its rights to require fulfillment of all terms of the contract.
- 10.1.9 Recommendation for approval of an invoice will constitute a representation by the architect/engineer to the Director, based on inspections at the site and data contained in the invoice, that the work has progressed to the point indicated; that, to the best of the architect/engineer's knowledge, information and belief, the quality of the work is in accordance with the contract documents; and that the contractor is entitled to payment in the amount certified. By recommending approval of the invoice, however, the architect/engineer shall not thereby be deemed to represent that it has made exhaustive or continuous on-site inspections to check the quality or quantity of the work, or that it has reviewed the construction means, methods, techniques, sequences or procedures, or that it has made any examination to ascertain how and for what purpose the contractor has used the monies previously paid on account of the contract sum.
- 10,1.10 If any corporation licensed to do business in New Jersey shall be or become delinquent in the payment of taxes due the State, unless under an active appeal process, the Director may withhold monies due the said corporation for the purpose of assuring the payment to the State of such taxes.

### 10.2 Invoices

- 10.2.1 Requests for payment under the contract for materials delivered or services rendered require the proper completion and submittal of specific forms including, but not necessarily limited to, the following:
  - a DBC Form 11/AR50-1 DBC Invoice;
  - b. DBC Form 11-2 Monthly Estimate for Payment to Contractor,
  - c. DBC Form 11-2A Certification of Prime Contractor;
  - d. DBC Form 11-3 Prime Contractor's Summary of Stored Materials;\*
  - e. DBC Form 11-3A Agreement and Bill of Sale Certification for Stored Materials;\*
  - f. Consent of Surety forms;\*
  - g. Certified Payroll Records;\*
  - h. Any other information or documentation required by other provisions of the contract
  - \* as applicable or required
- 10.2.2 The contractor shall submit the completed request for payment packet to the DBC project representative as instructed at the pre-construction conference. Receipt of a properly completed request for payment packet will start the prompt payment clock, unless it is subsequently discovered to be incomplete or otherwise unacceptable and returned to the contractor within 30 calendar days for correction (see section 10.2.4d. below).

- 10.2.3 Request for payment packets shall be prepared and submitted in original plus two copies unless otherwise specified.
- 10.2.4 For purpose of determining if interest begins to accrue under the State's Prompt Payment Act (N.J.S.A. 52:32-32 et seq.):
  - A proper invoice will be deemed to have been received when it is received by the
    office designated in the pre-construction conference for receipt of invoices and
    acceptance of the materials delivered or services rendered has occurred;
  - Payment shall be considered made on the date on which a check for such payment is dated;
  - c. Payment terms (e.g., "net 20") offered by the contractor will not be deemed a "required payment date"; and
  - d. The following periods of time will not be included:
    - After receipt of an improper invoice and prior to notice of any defect of impropriety, but not to exceed 30 calendar days; and
    - (2) Between the date of a notice of any defect or impropriety and the date a proper invoice is received. When the notice is in writing, it shall be considered made on the date shown on the notice.

### 10.3 interest

10.3.1 Interest shall be paid on the amount due the contractor pursuant to a property executed State invoice (see preceding section 10.2) if the required payment is not made on or before the required payment date.

The required payment date shall be 60 calendar days from the receipt of a properly executed State invoice or 60 calendar days from receipt of supplies or services, whichever is later.

Interest on amounts due shall be paid to the contractor for the period beginning on the day after the required payment date and ending on the date on which the check for payment is drawn. The interest shall be paid at a rate which the State Treasurer shall specify as applicable on the 30th calendar day after the end of each fiscal year.

10.3.4 In determining the rate, the Treasurer shall take into consideration current private commercial rates of interest for new loans maturing in approximately five years. The Treasurer shall publish the new rate.

10.3.5 No interest charge as required by this provision shall become a debt of the State until it exceeds \$5.00.

10.3.6 Interest may be paid by separate payment to the contractor, but shall be paid within 30 calendar days of payment of the original invoice.

10.3.7 The State Treasurer shall have the right to waive the interest payment for delinquencies due to circumstances beyond the control of the Director (or other State representatives involved in the processing of contractor invoices) including but not limited to strikes and natural disasters, and for contracts entered into prior to the effective date of the law.

10.3.8 Nothing in the provision nor the New Jersey Prompt Payment Act shall be construed as permitting the accrual of prejudgment interest in the case of a disputed contract for which notice of claim has been filed pursuant to N.J.S.A. 59:13-1 et seq., as provided in N.J.S.A. 59:13-8.

# 10.3.9 Withholding Payment for Non-Delivery of Data:

 a. If technical data such as "as-built" drawings, reports, spare parts lists, repair parts lists, etc., or instruction books (including additional and maintenance manuals), or any part thereof, are not delivered within the time specified by this contract or are deficient upon delivery, the Director has the discretion to withhold from each invoice a percentage (in addition to any other retainage required by the contract) of the contract price in accordance with the following table:

When total contract price is:	Percentage to be withheld is:
Less than \$250,000	10.0%
\$250,000 through \$1,000,000 Over \$1,000,000	5.0% 2.0%

b. The withholding of any sums pursuant to this article shall not be construed as, or constitute in any manner, a waiver by the State of the contractor's obligation to furnish the data required under this contract. In the event the contractor fails to furnish these items, the State shall have those rights and remedies provided by law and pursuant to this contract, in addition to, and not in lieu of, the sums withheld in accordance with this article.

#### 10.3.10 Allowances

The contractor shall include in its bid all allowances as may be set forth in the contract documents. The contractor shall purchase the "allowed materials" as directed by the Director on the basis of the lowest acceptable quote from at least three competitive offers. If the actual cost of the "allowed materials" is more or less than the stipulated allowance, the contract price shall be adjusted accordingly. The adjustment in contract price shall be made on the basis of the actual purchase cost without additional charges for overhead, profit, bond premium or any other incidental expenses. The cost of installation of the "allowed materials," unless otherwise specified, is to be included as the responsibility of the contractor in whose contract the allowance is included, and the contractor installing such "allowed materials" shall not be entitled to additional payment for such installation.

Unless otherwise provided in the contract documents:

- a. These allowances shall cover the contractor's true costs, including credit for any trade discount, of the materials and equipment required by the allowance, delivered at the site, including all applicable taxes;
- The contractor's costs for unloading and handling, labor, installation costs, overhead, profit and other expenses reasonably required in connection with such allowance items shall be included in the contract sum and not as part of the allowances; and
- c. Should the actual cost vary from the allowance, the contract sum shall be adjusted accordingly by change order, the amount of which will recognize changes, if any, of handling costs on the site, labor, installation costs, overhead, profit and other expenses resulting to the contractor from any change in quantity only (not price) beyond that contemplated by the allowance.

#### ARTICLE 11

# UNCOVERING AND CORRECTION OF WORK

# 11.1 Uncovering of Work

- 11.1.1 If any portion of the work is covered prior to inspection by the Director or the architect/engineer, especially work specifically required by the contract documents to be inspected, it shall be uncovered for observation. Uncovering the replacement of covering shall be at the installation contractor's expense. The contractor is obligated to advise the Director or the architect/engineer of all work scheduled to be covered which is reasonably subject to prior inspection before actual covering.
- 11.1.2 If any other portion of the work not specifically required to be inspected has been covered, which the Director or the architect/engineer did not request to observe prior to being covered, a request may subsequently be made to inspect such work, and it shall be uncovered by the installation contractor. If such work is found to be in accordance with the contract documents, the cost of uncovering and replacement shall, by appropriate change order, be reimbursed by the Director. If such work is found not to be in accordance with the contract documents, the contractor shall pay all associated costs, unless it is found that this condition was caused by the State, in which event the Director shall be responsible for the payment of such costs.

# 11.2 Correction of Work

- 11.2.1 The contractor shall promptly correct all work rejected by the Director or the architect/engineer as defective or failing to conform to the contract documents, whether observed before or after final acceptance and whether or not fabricated, installed or completed. The contractor shall bear all costs of correcting such rejected work, including the architect/engineer's additional services, if any.
- 11.2.2 The contractor shall remove from the site all portions of the work which are defective or non-conforming and which have not been corrected, unless removal is waived by the Director.
- 11.2.3 If the contractor fails to correct defective or nonconforming work in a timely manner, the Director may make arrangements for such correction by others and charge the cost of so doing to the responsible contractor and/or its sureties.
- 11.2.4 If the contractor does not proceed with the correction of such defective or nonconforming work within a reasonable time, fixed by written notice from the Director or the architect/engineer, the Director may remove it and may store the materials or equipment at the expense of the contractor. If the contractor does not pay for the cost of such removal and storage within 14 calendar days thereafter, the Director may, upon 14 calendar days additional written notice, sell such material and equipment at auction or at private sale and shall account for the net proceeds thereof, after deducting all of the costs which are the responsibility of the contractor, including compensation for the architect/engineer's additional services, if any. If such proceeds of sale do not cover all costs which the contractor should have borne, the difference shall be charged to the contractor and an appropriate credit change order shall be issued. If the payments then or thereafter due the contractor are not sufficient to cover such amount, the contractor and/or its surety shall pay the difference to the State.
- 11.2.5 The contractor shall be responsible for the cost of making good all work destroyed or damaged by such correction or removal.
- 11.2.6 Nothing contained herein shall be construed to establish a period of limitation, with respect to any other obligation which the contractor might have under the contract documents.

# 11.3 Acceptance of Defective or Non-Conforming Work

11.3.1 The Director may determine that the best interests of the State will be served by accepting defective or non-conforming work instead of requiring its removal and correction. In such instance a change order will be issued to reflect an appropriate and equitable and reduction

in the contract sum. Such adjustment shall be effected regardless of final payment having previously been made, and the contractor and/or its surety shall be responsible for promptly providing any funds due the State as a result thereof.

# PROTECTION OF PERSONS AND PROPERTY

# 12.1 Safety Precautions and Programs

12.1.1 Each prime contractor shall be responsible, in cooperation with and under the leadership of the general construction contractor, for initiating, maintaining and supervising all safety precautions and programs in connection with the work. Each prime contractor shall designate a responsible member of its organization at the site, whose duty shall be the prevention of accidents. This person shall be the contractor's superintendent unless otherwise designated by the contractor, in writing, to the State and the architect/engineer.

# 12.2 Safety of Persons and Property

- 12.2.1 Each prime contractor shall take all reasonable precautions for the safety of, and shall provide all reasonable protection to prevent damage, injury or loss to:
  - Every employee on the work and all other persons who may be affected thereby;
  - All the work and all materials and equipment to be incorporated therein, whether in storage on or off the site, under the care, custody or control of the contractor, or any of its subcontractors or sub-subcontractors; and
  - c. Other property at the site or adjacent thereto, including trees, shrubs, lawns, walks, pavements, roadways, structures and utilities not designated for removal, relocation or replacement in the course of construction.
- 12.2.2 The contractor shall give all notices and comply with all applicable laws, ordinances, rules, regulations and lawful orders of any public authority bearing on the safety of persons or property or their protection from damage, injury or loss.
- 12.2.3 The contractor shall erect and maintain, as required by existing conditions and progress of the work, all reasonable safeguards for safety and protection, including rails, night-lights, the posting of danger signs and other warnings against hazards, promulgating safety regulations, notifying owners and users of adjacent utilities and other means of protection against accidental injury or damage to persons and property.
- 12.2.4 When the use or storage of explosives or other hazardous materials or equipment is necessary for the execution of the work, the contractor shall exercise the utmost care and shall carry on such activities under the supervision of properly qualified personnel.
- 12.2.5 No contractor shall load or permit any part of the work to be loaded so as to endanger its safety.
- 12.2.6 The contractor shall promptly remedy all damage or loss to any property caused in whole or in part by the contractor, any of its subcontractors, sub-subcontractors, or anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable and for which the contractor is responsible, except damage or loss attributable to the acts or omissions of the State or architect/engineer, or anyone directly or indirectly employed by either of them or by anyone for whose acts either of them may be liable, and not attributable to the fault or negligence of the contractor. The foregoing obligations of the contractor are in addition to its obligations stated elsewhere herein.

# 12.3 Emergencies

12.3.1 In any emergency affecting the safety of persons or property, the contractor shall act with diligence, at its discretion, to prevent threatening injury, damage or loss. In such case, the contractor shall immediately notify the Director, through the architect/engineer, of the action taken, and shall forthwith prepare and submit a detailed and documented request through the architect/engineer to the Director for any additional compensation or extension of time claimed by the contractor on account of emergency work.

12.3.2 Wherever the contractor has taken no action, but has notified the Director or the architect/engineer, or wherever the Director has otherwise been made aware of any emergency threatening injury to persons, or loss or damage to work or adjacent property, the contractor shall act only as instructed or authorized by the Director.

# INSURANCE AND INDEMNITY

# 13.1 Contractor Insurance Requirements

The contractor shall secure and maintain in force, for the term of the contract, insurance coverages provided herein. The contractor shall provide the State of New Jersey with current certificates of insurance for all coverage and renewals thereof which must contain the provision that the insurance provided in the certificate shall not be canceled for any reason except after 30 calendar days written notice to the State of New Jersey, Division of Building and Construction.

# 13.1.1 Comprehensive General Liability

Comprehensive general liability insurance for the benefit of the contractor and any subcontractors is to be written as broad as the standard coverage form currently in use in the State of New Jersey, which shall not be circumscribed by any endorsements limiting the breadth of coverage. The policy shall include an endorsement (broad form) for contractual liability insurance, an endorsement for completed operations insurance, and an endorsement eliminating the explosion, collapse and underground (XCU) exclusion. Limits of liability shall not be less than \$1,000,000 per occurrence for bodily injury liability and \$1,000,000 per occurrence for property damage liability.

### 13.1.2 Comprehensive Automobile Liability

Comprehensive automobile liability insurance covering owned, non-owned, and hired vehicles must be carried by all contractors. The limits of liability shall not be less than \$1,000,000 per occurrence for bodily injury liability and \$500,000 per occurrence for property damage liability.

# 13.1.3 Workers' Compensation

Workers' Compensation Insurance applicable to the laws of the State of New Jersey and other State or Federal jurisdiction is required to protect the employees of the contractor or any subcontractor who will be engaged in the performance of this contract. This insurance shall include employers' liability protection with a limit of liability not less than \$250,000.

### 13.1.4 Owner's and Contractor's Protective Liability Insurance (OCPL)

In addition to the insurance required above, the contractor shall obtain and maintain a separate owner's and contractor's protective liability insurance policy for the same limits of liability as specified for the comprehensive general liability insurance. The policy shall provide for the State of New Jersey to be named insured. The policy shall be maintained in force for the term of the contract or one year, whichever is longer.

# 13.2 Insurance to be Carried by the State of New Jersey

### 13.2.1 Fire Insurance

The State of New Jersey shall provide insurance protection for the benefit of the contractor and its subcontractors in the form of a builders' risk insurance policy, providing protection against the perils of fire with extended coverage (which is limited to destruction caused by fire and lightening, wind, storm and hail, leakage from fire protective equipment, explosion, smoke damage caused by vehicles colliding with the structure, and damage caused by aircraft, sonic shock, riot and civil commotion, damage resulting from civil and military authority, and vandalism and malicious mischief) upon the structure on which the work on this contract is to be done to 100 percent of the insurable value thereof, including items of labor and materials connected therewith, whether in or adjacent to the structure insured, and materials in place or to be used as part of the permanent construction including surplus materials.

### 13.2.2 Exclusions

The above insurance shall apply only to the construction of new buildings and new additions to

existing buildings which result in the creation of additional habitable space; and shall not apply to alterations, repairs, maintenance and installations of systems, equipment and other items of work which do not result in creating additional habitable space. This insurance shall not protect against damage or loss to any of the contractor's or subcontractor's tools, equipment, scaffolding, staging towers or forms, contractor's materials stored on site which are not part of the construction project, and sheds or other temporary structures erected for use by the contractor and subcontractors. It is understood that the contractor will, at its own expense, carry all insurance which may be required to provide the necessary protection against such loss or damage herein described which shall contain a waiver of any right of subrogation against the State of New Jersey.

#### 13.2.3 Deductible Provisions

The insurance protection described herein may contain a deductible clause. The State of New Jersey agrees to indemnify the contractor against any insurable to the extent that such loss exceeds \$5,000 per occurrence. In these instances, the contractor shall assume responsibility for the first \$5,000 of any loss.

### 13.2.4 Loss Reporting and Loss Adjustment

In the event of loss, the contractor shall immediately notify the State of New Jersey, Division of Building and Construction, in writing, and take any other appropriate steps as may be required under the standard builders' risk insurance policy in effect. Upon the occurrence of any loss or damage prior to the acceptance of the building by the State, the contractor shall, at the State's option, replace and repair the damaged work as originally provided in the drawings and specifications at no additional compensation to that provided in the original contract.

#### 13.2.5 Status Trustee for Loss Adjustment

All losses will be adjusted with, and payable to, the State of New Jersey, as trustee for the insured as their interests may appear. The contractor shall be named jointly with the State in all policies of insurance, all of which shall be open to inspection by the State.

13.2.6 The contractor shall not include any cost for builders' risk insurance premiums as described herein. However, this provision shall not relieve the contractor from its obligation to complete, according to plans and specifications, the project covered by the contract, and the contractor and its surety shall be obligated to full performance of the contractor's undertaking.

#### CHANGES IN THE WORK

### 14.1 Changes to Contract

- 14.1.1 The Director may at any time, by written order designated or indicated to be a change order, make any change in the work within the general scope of the contract, including, but not limited to, changes:
  - a. In the specifications (including drawings and designs);

b. In the method or manner of performance of the work;

c. in the State-furnished facilities, equipment, materials, services or site; or

d. Directing acceleration in the performance of the work.

## 14.2 Requests for Equitable Adjustment

- 14.2.1 The contractor agrees to prepare and submit, within 20 calendar days of encountering any conditions it considers a change, or upon receiving official notice of a proposed change or written direction to proceed with a change, a current DBC form entitled \*Request for Change Order' to the Director or, if so instructed, to the Director's designated project representative. An original and two copies shall be submitted.
- 14.2.2 All requests for contract time extensions must be accompanied by copies of the current (approved) progress schedule and copies of the revised (proposed) progress schedule detailing the incorporation of the changed work and the effects of such incorporation on progress. Failure to provide the schedule data shall be grounds for rejection of the request.
- 14.2.3 Notwithstanding any other portion of this contract, any time extensions for changes in the work depend upon the extent, if any, by which the changes cause delay in the completion of the various elements of construction. The contract modification making such time extension will provide for an extension of contract completion date only for those specific elements so delayed, and will not alter the contract completion dates for other portions of the work. This contract modification may further provide for an equitable readjustment of liquidated damages pursuant to the new completion schedule.
- 14.2.4 The contractor, in connection with any request it makes for an equitable adjustment, shall furnish a price breakdown, itemized as required by the Director. Unless otherwise directed, the breakdown shall cover all work involved in the change whether such work was deleted, added or changed. Further, the breakdown shall be in sufficient detail to permit an analysis of all material, labor, equipment, subcontract and overhead costs, as well as profit. Any amount proposed for subcontracts shall be supported by a similar price breakdown. In addition, if the request includes a time extension, a justification (see section 14.2.2) shall also be furnished. The request, together with the price breakdown and time extension justification, shall be furnished by the date specified.
- 14.2.5 If any change under this article causes an increase or decrease in the contractor's cost of, or the time required for, the performance of any part of the work under this contract, whether or not changed by any such order, an equitable adjustment may be made in the contract price or delivery schedule or both, and the contract modified in writing accordingly.
- 14.2.6 The following rates shall apply in computing indirect costs and profit for the negotiation of equitable adjustments, under all provisions of this contract which provide for such adjustments that do not exceed \$25,000. When the contract time is increased as a result of a change, the resulting change in contract amount will include the indirect impact cost of extended performance, computed in accordance with the terms of this article, and no further consideration of such costs arising from the specific modification will be given. The percentages for overhead and profit shall be negotiated and may vary according to the nature, extent and complexity of the work involved. The percentages shall be applicable for deleted work as well as additional work. When a change consists of both added and deleted work, the applicable percentages shall be applied to the net cost or credit. In any event, the percentages shall not exceed the following:

#### a. Overhead will be the sum of:

- (1) 15 percent of direct labor costs. NOTE: For the purpose of this article, the term "direct labor" shall include all foremen, equipment operators and skilled, semi-skilled and common laborers directly assigned to the specified operation. The term "direct labor costs" shall consist of the contract or actual payroll rate of wage per hour and fringe benefits paid for each and every hour that such employees are actually engaged in the performance of the work.
- (2) 15 percent of direct material costs. NOTE: For the purpose of this article, the term "direct material costs" shall consist of the actual costs of the materials including applicable tax and transportation charges.
- b. For rented equipment, an hourly rental rate will be used which will be determined by using the monthly rental rates taken from the current edition of the Rental Rate Blue Book for Construction Equipment and dividing it by 176. An allowance will be made for operating costs for each and every hour the equipment is actually operating in accordance with the rates listed in the aforesaid Rental Book. The contractor will be allowed only 65 percent of the rental rate on contractor-owned equipment.
- c. Bond premiums, insurance, payroll taxes, and travel subsistence, if applicable, will be allowed at actual cost for the equitable adjustment allowed.
- d. The prime contractor's profit on the subcontractor's work will be six percent of the subcontractor's costs. Subcontractor indirect costs will be computed in the same manner as for the prime contractor. The prime contractor agrees to incorporate this article in each of its subcontracts. NOTE: When more than one tier of subcontractors exists, for the purpose of markups, they shall be treated as one subcontractor.
- e. A profit of six percent, where profit is allowable by the terms of the applicable contract provision, shall be added to the contractor's total cost for the equitable adjustment allowed. Indirect costs will not be duplicated in direct costs.
- 14.2.7 The Director, in order to avoid delays in the progress of work or when in the best interests of the State, has the discretion to direct the contractor, in writing, to proceed with a change without a prior agreement on costs. Such direction shall be in the form of an unpriced change order or letter of direction. If the contractor intends to assert a request for an equitable adjustment under this article, the contractor must submit to the Director or, if instructed, to the Director's designated project representative a DBC form entitled "Request for Change Order", completed in sufficient detail and in accordance with this article within 20 calendar days after receipt of an unpriced change order or letter of direction.
- 14.2.8 Where the cost of property made obsolete or excess as a result of a change is included in the contractor's request for adjustment, the Director shall have the right to prescribe the manner of disposition of such property.
- 14.2.9 In order to avoid delays in the progress of work, the Director has the discretion to order a contractor to proceed, even in the absence of a formal change order. The contractor shall submit a follow-up change order request within 20 calendar days following the date of authorization to proceed with the changed work. The cost of such work shall then be evaluated by the Director on the basis of the reasonable expenditures and savings for those performing the work.
- 14.2.10 Failure to agree to any adjustment shall be a dispute concerning a question of fact within the meaning of section 2.4 of this document. However, nothing in this article shall excuse the contractor from proceeding with the contract as changed.

## ASSIGNMENT OF ANTITRUST CLAIM(S)

# 15.1 Assignment of Antitrust Claim(s)

15.1.1 The contractor recognizes that in actual economic practice, overcharges resulting from antitrust violations are in fact usually borne by the ultimate purchaser. Therefore, and as consideration for executing this contract, the contractor, acting herein by and through its duly authorized agent, hereby conveys, sells, assigns, and transfers to the State of New Jersey, for itself and on behalf of its political subdivisions and public agencies, all right, title and interest to all claims and causes of action it may now or hereafter acquire under the antitrust laws of the United States or the State of New Jersey, relating to the particular goods or services purchased or acquired by the State of New Jersey or any of its political subdivisions or public agencies pursuant to this contract.

In connection with this assignment, the following are the express obligations of the contractor:

- a. It will take no action which will in any way diminish the value of the rights conveyed or assigned hereunder.
- b. It will advise the Attorney General of New Jersey:
  - in advance of its intention to commence any action on its own behalf regarding any such claim or cause(s) of action;
  - (2) immediately upon becoming aware of the fact that an action has been commenced on its behalf by some other person(s) of the pendency of such action.
- c. It will notify the defendants in any antitrust suit of the fact of the within assignment at the earliest practicable opportunity after the contractor has initiated an action on its own behalf or becomes aware that such an action has been filed on its behalf by another person. A copy of such notice will be sent to the Attorney General of New Jersey.

Furthermore, it is understood and agreed that in the event any payment under any such claim or cause of action is made to the contractor, it shall promptly pay over to the State of New Jersey the allotted share thereof, if any, assigned to the State hereunder.

#### AFFIRMATIVE ACTION REQUIREMENTS

### 16.1 Policy Statement

The laws of New Jersey (N.J.S.A. 10:5-31 et seq.) provide that no public works contractor can be awarded nor any monies paid until the prospective contractor has agreed to contract performance which complies with the approved Affirmative Action Plan. The law applies to each political subdivision and agency of the State and includes procurement and service contracts as well as construction contracts. This section was prepared to explain the affirmative action requirements and procedures for public agencies awarding contracts and for contractors bidding on contracts.

To assure effective application of the affirmative action law while allowing the business operations of government to proceed efficiently, these regulations (see N.J.A.C. 17:27) are designed to minimize administrative paperwork and delays.

### 16.2 Mandatory Language

During the performance of this contract, the contractor agrees as follows:

- a. The contractor or subcontractor, where applicable, will not discriminate against any employee or applicant for employment because of age, race, creed, color, national origin, ancestry, marital status, sex, or affectional or sexual orientation. The contractor will take affirmative action to ensure that such applicants are recruited and employed, and that employees are treated during employment without regard to their age, race, creed, color, national origin, ancestry, marital status, sex, or affectional or sexual orientation. Such action shall include but not be limited to the following: employment, upgrading, demotion or transfer, recruitment or recruitment advertising, lay off or termination, rates of pay or other forms of compensation, and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the Public Agency Compliance Officer setting forth provisions of this non discrimination clause.
- b. The contractor or subcontractor, where applicable, will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to age, race, creed, color, national origin, ancestry, marital status, sex or affectional or sexual orientation.
- c. The contractor or subcontractor, where applicable, will send to each labor union or representative of workers with which it has a collective bargaining agreement or other contract or understanding, a notice, to be provided by the Public Agency Compliance Officer, advising the labor union or workers' representative of the contractor's commitments under this act, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
- d. The contractor or subcontractor, where applicable, agrees to comply with any and all regulations promulgated by the Treasurer pursuant to N.J.S.A. 10:5-31 et seq., as amended and supplemented from time to time.
- e. When hiring workers in each construction trade, the contractor or subcontractor agrees to attempt in good faith to employ minority and female workers in each construction trade consistent with the applicable employment goal prescribed by N.J.A.C. 17:27-7.3; provided, however, that the Affirmative Action Office may, in its discretion, exempt a contractor or subcontractor from compliance with the good faith procedures prescribed by the following provisions (1), (2) and (3), as long as the Affirmative Action Office is satisfied that the contractor is employing workers provided by a union which provides evidence, in accordance with standards prescribed by the Affirmative Action Office, that its percentage of active "card carrying" members who are minority and female workers is equal to or greater

than the applicable employment goal prescribed by N.J.A.C. 17:27-7.3 promulgated by the Treasurer pursuant to N.J.S.A. 10:5-31 et seq., as amended and supplemented from time to time. The contractor or subcontractor agrees that a good faith effort shall include compliance with the following procedures:

- (1) If the contractor or subcontractor has a referral agreement or arrangement with a union for a construction trade, the contractor or subcontractor shall, within three working days of the contract award, seek assurances from the union that it will cooperate with the contractor or subcontractor as it fulfills its affirmative action obligations under the contract and in accordance with the regulations promulgated by the Treasurer pursuant to N.J.S.A. 10:5-31 et seq., as supplemented and amended from time to time. If the contractor or subcontractor is unable to obtain said assurances from the construction trade union at least five working days prior to the commencement of construction work, the contractor or subcontractor agrees directly to attempt to hire minority and female workers consistent with the applicable employment goal. If the contractor's or subcontractor's prior experience with a construction trade union, regardless of whether the union has provided said assurances, indicates a significant possibility that the trade union will not refer sufficient minority and female workers consistent with the applicable employment goal, the contractor or subcontractor agrees to be prepared directly to hire minority and female workers consistent with the applicable employment goal by complying with the following hiring (2) below, and the contractor procedures prescribed under subcontractor further agrees immediately to take said action if it determines or is so notified by the Affirmative Action Office that the union is not referring minority and female workers consistent with the applicable employment goal.
- (2) If the hiring of a work force consistent with the employment goal has not or cannot be achieved for each construction trade by adhering to the procedures of (1) above, or if the contractor of subcontractor does not have a referral agreement or arrangement with a union for a construction trade, the contractor or subcontractor agrees to take the following actions consistent with the applicable county employment goals:
  - (a) To notify the Public Agency Compliance Officer, Affirmative Action Office and at least one approved minority referral organization of its manpower needs, and request referral of minority and female workers;
  - (b) To notify any minority and female workers who have been listed with it as awaiting available vacancies;
  - (c) Prior to commencement of work, to request the local construction trade union, if the contractor or subcontractor has a referral agreement or arrangement with a union for the construction trade, to refer minority and female workers to fill job openings.
  - (d) To leave standing requests for additional referral of minority and female workers with the local construction trade union, if the contractor or subcontractor has a referral agreement or arrangement with a union for the construction trade, the State Training and Employment Service and other approved referral sources in the area, until such time as the workforce is consistent with the employment goal.
  - (e) If it is necessary to lay off some of the workers in a given trade on the construction site, to assure, consistent with the applicable State and Federal statutes and court decisions, that sufficient minority and female employees remain on the site consistent with the employment goal; and to employ any minority and female workers so laid off by the contractor on any other construction site in the

- area on which its workforce composition is not consistent with an employment goal established pursuant to N.J.A.C. 17:27.
- (f) To adhere to the following procedure when minority and female workers apply or are referred to the contractor or subcontractor:
  - (i) If said individuals have never previously received any document or certification signifying a level of qualification lower than that required, the contractor or subcontractor shall determine the qualifications of such individuals, and if the contractor's or subcontractor's workforce in each construction trade is not consistent with the applicable employment goal, it shall employ such persons which satisfy appropriate qualification standards; provided however, that a contractor or subcontractor shall determine that the individual at least possesses the skills and experience recognized by any worker's skills and experience classification determination which may have been made by a Public Agency Compliance Officer, union, apprentice program or a referral agency, provided the referral agency is acceptable to the Affirmative Action Office and provided further that, if necessary, the contractor or subcontractor shall hire minority and female workers who qualify as trainees pursuant to these regulations. All of the requirements of this paragraph, however, are limited by the provisions of paragraph (3) below.
  - (ii) If the contractor's or subcontractor's workforce is consistent with the applicable employment goal, the name of said female or minority group individual shall be maintained on a waiting list for the first consideration, in the event the contractor's or subcontractor's workforce is no longer consistent with the applicable employment goal.
  - (iii) If, for any reason, said contractor or subcontractor determines that a minority individual or a female is not qualified or if the individual qualifies as an advanced trainee or apprentice, the contractor or subcontractor shall inform the individual in writing with the reasons for the determination, maintain a copy in its files, and send a copy to the Public Agency Compliance Officer and to the Affirmative Action Office.
- (g) To keep a complete and accurate record of all requests made for the referral of workers in any trade covered by the contract and on forms made available by the Affirmative Action Office and shall be submitted promptly to that office upon request.
- (3) The contractor or subcontractor agrees that nothing contained in the preceding provision (2) shall preclude the contractor or subcontractor from complying with the hiring hall or apprenticeship provisions in any applicable bargaining agreement or hiring hall arrangement, and, where required by custom or agreement, it shall send journeymen and trainees to the union for referral, or to the apprenticeship program for admission, pursuant to such agreement or arrangement; provided, however, that where the practices of a union or apprenticeship program will result in the exclusion of minorities and females or the failure to refer minorities and females consistent with the county employment goal, the contractor or subcontractor shall consider for employment persons referred pursuant to said provisions (2) without regard to such agreement or arrangement; provided further, however, that the contractor or subcontractor shall not be required to employ minority and female advanced trainees and trainees in numbers which result in the employment of advanced trainees and trainees as a percentage of the total workforce for the construction trade, which percentage significantly exceeds the apprentice-to-journey worker ratio specified in the applicable collective bargaining agreement,

or in the absence of a collective bargaining agreement, exceeds the ratio established by practice in the area for said construction trade. Also, the contractor or subcontractor agrees that, in implementing the procedures of the proceeding provision (2), it shall, where applicable, employ minority and female workers residing within the geographical jurisdiction of the union.

- (4) The contractor agrees to complete an Initial Project Manning Report on forms provided by the Affirmative Action Office or in the form prescribed by the Affirmative Action Office and submit a copy of said form no later than three working days after signing a construction contract; and to submit a completed copy of a Monthly Project Manning Report to the Affirmative Action Office and to the public agency compliance officer once a month (by the seventh work day of each month) thereafter for the duration of this contract. The contractor agrees to cooperate with the public agency in the payment of budgeted funds, as is necessary for on-the-job and off-the-job programs for outreach and training of minority and female trainees employed on the construction project.
- (5) The contractor and its subcontractors shall furnish such reports or other documents to the Affirmative Action Office as may be requested by the office from time to time in order to carry out the purposes of these regulations, and public agencies shall furnish such information as may be requested by the Affirmative Action Office for conducting a compliance investigation pursuant to N.J.A.C. 17:27-10.1 et seq.

Provisions (e) and (f) are not required for subcontractors with four or fewer employees in the company or a contractor which has presented evidence of a federally approved or sanctioned affirmative action program.

**END OF GENERAL CONDITIONS**