Project Manual
V07282017
Section 00 21 13

Instructions to Bidders
V01172017

1. General

1.1. The Work: Publix Super Market store building located as indicated on the title block of these Drawings.

1.2. Securing Documents: Invited Bidders may obtain copies of the Proposed Contract Documents as indicated in the Invitation to Bid.

1.3. Bid Form: Bids will be received at the time and place indicated in the Invitation to Bid, and shall be on the form provided with the Invitation to Bid.

1.4. Bonds

1.4.1 No bid security is required.

1.4.2 A Labor and Materials Payment Bond and a Performance Bond, each in the amount of the Contract Sum, are required as a Deductive Alternate.

1.5. Examination of Documents and Site of Work

1.5.1 Bidders Review of Documents: Bidder shall examine entire set of Drawings, all Sections of Specifications, and all Conditions of the Contract.

1.5.2 Note especially Supplemental Drawings and Specifications which integrate the Publix Prototype Design with the Site and all adjacent Shopping Center structures, and which may provide or modify the facade and adjacent structure. These Drawings and Specifications are part of this Contract, and are listed in the Invitation to Bid.

1.5.3 Bidders review of Construction Site: Bidder shall visit Project Site to be acquainted with surrounding territory, means of approach to Site, conditions of actual Job Site, and facilities for delivery, storage, handling and placing of materials and equipment. Bidder shall compare Drawings and Specifications with work in place in order to be fully informed of all conditions affecting execution of work. Failure to visit site or failure to examine any and all Contract Documents will not relieve successful Bidder from necessity of furnishing all materials or equipment, or performing all work, that may be required for completion in accordance with Drawings and Specifications without additional cost to Owner. Neglect of above requirements will not be accepted as reason for delay in Work.

1.6. Proof of Competence and Approval of Subcontractors

1.6.1 The successful Bidder will be required to submit to the Owner a list of proposed Subcontractors for principal portions of the Work before execution of the Contract. This list must be approved by the Owner and will become an Amendment to the Contract. The Owner may require evidence that a proposed Subcontractor has sufficient means and experience in the types of work called for to assure completion of the Contract in a satisfactory manner.

1.7. Award and Execution of Contract

1.7.1 The Contract, if awarded, will be awarded to the invited Bidder who has proposed the most appropriate price for the proposed scope of Work, subject to the Owner's and Architect's right to reject any and all Bids and to waive informality and irregularity in the Bids and in the Bidding.

1.7.2 The Form of Agreement which the successful bidder will be required to execute is AIA A111, 1997, "Form of Agreement Between Owner and Contractor". Publix Super Markets, Inc. is included in the definition of "Owner" and shall be a required Cosignatory of the Owner-Contractor Agreement.

1.7.3 At or prior to delivery of the Signed Agreement, the Bidder to whom the Contract is awarded shall deliver to the Owner those Certificates of Insurance required by the Contract Documents and such Labor and Materials Payment Bonds and Performance Bonds as may be required by the Owner.

1.7.4 Certificates of Insurance and Bonds shall be approved by the Owner before the Successful Bidder may proceed with the Work. Failure to provide either in a form satisfactory to the Owner shall subject the Contractor to loss of time from the allowable Construction Period equal to the Time of Delay in furnishing the required material.

1.8. Construction Time

1.8.1 The Agreement will include a requirement that the Work be completed within a Specified Number of Days following the Date of Commencement. The Specified Number of Days will be agreed upon between the Owner and the Successful Bidder. The Date of Commencement will be defined in the Owner-Contractor Agreement (for the purpose of administration of the Owner-Contractor Agreement only) as the later of either 1) the date of the Owner-Contractor Agreement or 2) the Date of Receipt of the Building Permit.

2. Products

2.0.1 All building construction products/materials used for the Project are to be non-asbestos containing. Asbestos Containing Material (ACM) by Federal EPA and OSHA definition is any material/product that contains greater than (>) 1.0% asbestos. The following six (6) types of natural occurring asbestos mineral fibers are currently regulated under EPA and OSHA; Chrysotile, Amosite, Crocidilite, Tremolite, Anthophyllite and Actinolite asbestos. Publix will require a notarized affidavit from the Project Construction Contractor or their representative stating that they have verified that ACM was not used or installed during the construction of the Publix structure.

3. Execution

Not Used

End of Section 00 21 13

Section 01 11 00

Summary of Work
V03172017

1. General

1.1. Work under this Agreement is the construction of a Publix Super Markets Store Building.

1.2 Related work under other contracts

1.2.1 Sitework:

Site Grading
Site Drainage
Site Utilities, Paving
Pad Preparation for this building
Construction of other buildings within the Project.
Other work as required for satisfactory completion of the Project.

1.2.2 On projects for which Publix Super Markets, Inc. is the sole Owner, some or all of the above-listed Site Work may be part of this Contract; See Bid Forms for definitive list.

1.3. Standby Generators: When a Publix Super Markets Store Building is designated to receive a standby generator, the General Contractor will be responsible for supplying the crane and operator required to unload and install said generator and related equipment.

1.4 The following items will be furnished by Publix Super Markets, Inc. and shall be set in place, installed, and connected by the proper trades under this Contract (except for connection work by Publix as noted). These items may be designated OFCI (Owner Furnished, Contractor Installed) when referenced in the Documents. Items will be delivered to the Site of Construction. Contractor assumes responsibility for delivered items at the time of delivery. Coordinate with Publix for delivery method and time.

1.4.1 If Additive Alternate for HVAC Equipment is not accepted, Roof-Top HVAC Equipment curbs and support rails, and HVAC Units (except final connection of control wiring by Publix whether Additive Alternate is accepted or not). In any case, where required elsewhere, radiant unit heaters are part of the Contract.

1.4.2 Pre-sloped rooftop curbs for HVAC Systems, Mechanical Centers.

1.4.3 All Supply and Exhaust Fan curbs, and all Supply and Exhaust Fans.

1.4.4 Grease Hoods and Heat Removal Hoods, designated GH- and HR- on Mechanical Drawings.

1.4.5 Hot Water Storage and Reclaim Tanks.

1.4.6 Light Fixtures and Lamps.

1.4.7 Energy Management Panels (except [illegible] connection to [illegible] and control wiring installed by Contractor [illegible]).

1.4.8 All Utility sinks; stainless steel freestanding one, two, three and four compartment sinks. Plumbing brass provided by Contractor.

1.4.9 Emergency Generator and Transfer Switch with gas regulator and filter.

1.4.10 "L[illegible]Lab" suspended grid system.

1.4.11 [illegible]on Retail's "E[illegible] Beam" system.

1.4.12 [illegible]lex Armor Bond [illegible]door curtain system.

1.5. The following items will be furnished, set in place, installed, and connected by Publix Super Markets, either under separate contract or by Publix personnel (except for connection [illegible] as noted in parentheses):

1.5.1 Walk-in coolers and freezers, including installation of refrigerant lines and condensate lines to hub drains (electrical connection by Contractor).

1.5.2 Insulated composite panel ceiling systems.

1.5.3 Refrigerated Cases, including installation of refrigerant lines and condensate lines to hub drains (except electrical connection by Contractor).

1.5.4 Condensers and Compressors for Refrigerated Systems, with weatherproof housings "Weather-Pac's" or roof-top houses where indicated (except connection of power and control wiring; required flashing, pre-manufactured curbs shown, and other water/weatherproofing by Contractor).

1.5.5 Heated food display cases (electrical connection by Contractor).

1.5.6 Bakery Ovens (gas and electrical connection , and flues and vents by Contractor - Contractor shall receive and store ovens at the site until Publix forces can install them).

1.5.7 Signs on facade and under canopy (electrical connection by Contractor).

1.5.8 Scissor Lifts, Dock Levelers, and Dock Bumpers (except associated concrete work, steel embeds and electrical connection by Contractor).

1.5.9 Trash Compactor (electrical connection by Contractor).

1.5.10 Baler (except electrical connection by Contractor).

1.5.11 Ice Machines with condensate drain connection (water supply connection and electrical connection by Contractor).

1.5.12 Gondolas (electrical wiring by Contractor).

1.5.13 Checkout Stands, including all signal wiring (electrical connection by Contractor).

1.5.14 Combined Burglar and Fire Alarm System, including all final power and signal wiring connection (conduit, junction boxes, pulling of power and signal wiring, and duct mounted ionization detectors by Contractor).

1.5.15 Safes.

1.5.16 Automated Teller Machines (ATM's), communication (electrical connection by Contractor).

1.5.17 Wall Clock in Sales Area (electrical connection by Contractor).

1.5.18 Unit Insect Control Systems

1.5.19 Portable Fire Extinguishers.

1.5.20 Towel, Soap, and Toilet Paper Dispensers.

1.5.21 Diaper-Changing Stations.

1.5.22 Music System

1.5.23 Automatic Fire Suppression System (Ansul).

1.5.24 Trim package: Rub rails, interior railings, etc.

1.5.25 Cart Curbs and Interior Flex Post shall be provided and installed by General Contractor. See architectural plans for locations and details.

1.6. Area of horizontal runs by Trades

Electrical: Bottom of roof deck to 32 in. below roof deck; where exposed, immediately beneath roof deck, passing between steel joists where possible

Refrigeration: 32 in. to 36 in. below roof deck; where exposed, immediately below bottom chord of steel joist girders and joists.

Fire Sprinkler: 8 in. above ceiling; where exposed, 8 in. above bottom chord of steel joist girders and joists.

Air Conditioning: 36 in. below roof deck to 10 in. above ceiling; where exposed, hang as close under bottom chord of steel joist girders and joists as possible while leaving room for refrigeration lines.

If deviation from these areas is indicated, such deviation must be agreed upon by the Job Superintendent and/or Publix's representative.

2. Products

Not Used

3. Execution

Not Used

End Of Section 01 11 00

Section 01 23 00

Alternates
V02212011

1. General

1.1. To enable the Owner to evaluate the cost of alternate methods of construction of the Project, the Alternates described in this Section are required to be stated on the Bid Form submitted by each Bidder.

1.2. The cost of Labor and Material Payment Bond and Performance Bond shall be listed as an Add Alternate.

1.3. Underslab Porous Fill - in some locations the building pad or sub-grade will be constructed with material which meets the specified requirements for under-slab porous fill. In such a case the Owner may choose to omit under-slab porous fill from this Contract. State an amount which may be deducted from the Base Bid for the omission of Material, Labor, and Equipment for the installation of under-slab porous fill.

1.4. HVAC Equipment - State an amount which may be added to the Base Bid for the inclusion of rooftop HVAC Units, their curbs, and support rails. The Contractor shall set in place, install, and connect this equipment whether this alternate is accepted or not.

2. Products

Not Used

3. Execution

Not Used

End Of Section 01 23 00

Section 01 25 00

Substition Procedures
V02212011

1. General

1.1. Each Bidder obligates himself to the use of brands, makes and models, materials and apparatus named in this Project Manual and on the accompanying Drawings, unless substitute approval is obtained in the manner described herein.

1.2. All items, for which there is a specific product or brand designated, shall be supplied as specified.

1.3. After bidding: no substitutions will be considered, except in cases necessitated by strikes, bankruptcy, discontinuation of a product, etc., or where equal performance and significant cost savings will result. Requests shall be in writing and be accompanied by full descriptive data. It is assumed that the reason for substituting materials and methods is based on a cost or time savings, and that Publix will share in these benefits.

2. Products

Not Used

3. Execution

Not Used

End Of Section 01 25 00

Section 01 26 00

Contract Modification Procedures
V02212011

1. General

1.1. Definitions: Refer to AIA Document A201.

1.1.1 The Contract for Construction (the Work) is composed of:

Agreement (Form itself, with attachments)
General Conditions
Specifications
Drawings
Addenda

1.1.2 Change Orders modify any or all of the parts of the Contract where a change in Cost or Time is required.

1.1.3 Minor changes in the Work shall be as directed by the Owner's Representative.

1.1.4 General Contractors will be bound by provisions of the [illegible] plus a Fee Contract.

1.2. Revision Request (This is the term used to describe the process by which Publix identifies a need for change):

1.2.1 Where a Revision Request has no related cost, submit a letter stating this, or include as a no cost line item on a Change Order.

1.2.2 Where a Revision Request requires an adjustment in the Contract Sum, submit within 30 days from distribution date of Revision Request as a Change Order or a line item on a Change Order. If Change Order is not received within 30 days, it will be assumed that the Revision Request is a no cost item.

1.2.3 Where a Revision Request is included as a line item on a Change Order, include the following as back-up, broken out for each Revision Request individually.

1.2.4 Submit on forms supplied or approved by Publix.

1.2.5 Required Information.

1.2.5.1 Labor:

Units of labor x actual rate by Categories
% of labor burden by Categories
Total labor by Categories

1.2.5.2 Material:

Units of material x actual unit cost by Categories
Subtotal by Categories
%Tax

1.2.5.3 Category Total (or Subcontract):

Total Labor
Total Material
Subtotal
X 7%
Category Cost

1.2.5.4 Recap Categories

Category Cost each Category
Total Cost of Revision Request or Change Order

2. Products

Not Used

3. Execution

Not Used

End Of Section 01 26 00

Section 01 33 00

Submittal Procedures
V02212011

1. General

1.1. Submit all required Shop Drawings, Product Data, Samples, Concrete Design Mixes, Test Results, etc. to:

Publix Super Markets, Inc.
Attn: Facilities Design
P.O. Box 407 (3300 Publix Corporate Parkway)
Lakeland, FL 33802 (33811)

1.2. Submittal Types:

1.2.1 Letters of Intent (LOI):

1.2.1.1 Use where provided by Publix. LOI's shall be filled out completely, with all options marked, and with all blanks filled in, properly signed by an authorized agent of the company concerned.

1.2.1.2 LOI shall be followed exactly in the field. Provide adequate information at the Job Site for Installers to conform to Manufacturers recommendations.

1.2.1.3 Submit only the original, signed LOI to Publix. Contractor may retain as many copies as he needs.

1.2.2 Manufacturer's Literature:

1.2.2.1 Submit where required by applicable Project Manual Section. Submit a minimum three copies for use of Owner and Contractor, additional copies as required.

1.2.2.2 Where more than one option is described, mark to indicate model or type to be used.

1.2.3 Shop Drawings

1.2.3.1 Submit for the following:

Concrete Reinforcing Steel
Masonry Reinforcement
Open Web Steel Joists
Structural Steel
Fire Sprinklers
Other items of work as required

1.2.3.2 Submit in number prescribed by instruction letter issued at pre-construction meeting or, if not specified in letter or individual sections, submit three sets.

1.2.3.3 Materials Lists:

1.2.3.4 Identify all pertinent characteristics (type, model number, etc.) of materials intended for use.

1.2.3.5 Fire Sprinkler submittals only: Submit two sets with approval by Factory Mutual and local Authority having Jurisdiction. Submit sets bearing the original signature or initials of the reviewers. Include original letter from Factory Mutual detailing their review comments. These sets will not be returned.

1.2.4 Test Reports:

1.2.4.1 Where indicated, submit test reports to prove compliance of materials supplied with specification intent.

1.2.4.2 Reports Required:

Concrete
Soil and other Geological Tests.
Steel Inspection Report
Others as needed

1.2.4.3 Note the requirements stated elsewhere for same-day submittal of test reports indicating substandard soil or concrete.

1.2.5 Samples:

1.2.5.1 Where required for selection of color, texture or other physical characteristics, submit samples of materials intended for use.

1.2.5.2 Samples shall be large enough to allow adequate evaluation.

1.2.5.3 Submit two samples minimum. One will be retained by Publix, the other will be returned to the General Contractor for use at the Job Site.

1.2.6 Sample Panels:

1.2.6.1 Where required by Publix Architect, erect on the job site where directed, a Sample Panel of major finish work.

1.2.6.2 Sample Panel shall be no larger than 4'-0" x 8'-0", but shall be large enough to indicate joint treatment, corner treatment, range of coloration, and other pertinent characteristics of the installation of materials selected.

1.2.6.3 Sample Panel will be used as the Quality Standard for the work represented. Work in place shall conform to the treatments shown by the Sample Panel.

1.3. Submittal Process

1.3.1 Time

1.3.1.1 Letters of Intent: Return to Publix no later than 2 weeks before commencement of work described, and no later than 60 days from project commencement.

1.3.1.2 Marginal Soil, Concrete or Other Tests that indicate substandard conditions: submit to Publix immediately.

1.3.1.3 All other submittals: Return to Publix no later than 2 weeks before commencement of work described, and no later than 60 days from project commencement.

1.3.1.4 Subcontractor prepares submittal

1.3.1.5 If LOI is available, send original to General Contractor.

1.3.1.6 If LOI is not available, send six copies of submittals to General Contractor.

1.3.1.7 Deviations from the specifications will be considered only in the event that those products specified have become unavailable for use. Other products may be submitted only for future consideration.

1.3.2 General Contractor reviews submittal

1.3.2.1 If LOI is submitted, record action taken and forward on to Publix.

1.3.2.2 Approve or annotate the submittals, then send to Publix.

1.3.2.3 If disapproved, notify Subcontractor.

1.3.3 Publix reviews submittal

1.3.3.1 If LOI is submitted, record.

1.3.3.2 Approve or annotate submittals, file copies, return others to General Contractor.

1.3.3.3 If disapproved, notify General Contractor.

2. Products

2.0.1 All building construction products/materials used for the Project are to be non-asbestos containing. Asbestos Containing Material (ACM) by Federal EPA and OSHA definition is any material/product that contains greater than (>) 1.0% asbestos. The following six (6) types of natural occurring asbestos mineral fibers are currently regulated under EPA and OSHA; Chrysotile, Amosite, Crocidilite, Tremolite, Anthophyllite and Actinolite asbestos. Publix will require a notarized affidavit from the Project Construction Contractor or their representative stating that they have verified that ACM was not used or installed during the construction of the Publix structure.

3. Execution

Not Used

End Of Section 01 33 00

Section 01 50 00

Temporary Facilities and Controls
V02212011

1. General

1.1. Temporary Requirements:

1.1.1 Furnish two currently accepted type hygienic portable toilet facilities, and maintain same.

1.1.2 Provide temporary water supply (3/4").

1.1.3 Provide temporary electric service for power and lighting (208 volt, 200 amp.)

1.1.4 All temporary facilities shall be removed when their use is no longer required.

1.1.5 General Contractor shall pay operating costs of all temporary services.

1.2. Security: Provide weathertight shed(s) for all materials requiring protection from weather, with raised floors for storage of cement, lime, and similar items.

1.3. Construction Cleaning:

1.3.1 Contractors shall clean construction site daily of all rubbish and trash which might breed mosquitoes and vermin, or which is highly combustible. Trash which cannot be burned because burning is not allowed by local ordinance, or because it is not combustible, shall be removed from the site at least weekly.

1.3.2 The Contractor shall clean sweep the finished floor every day and be sure that the finished floor is undamaged by equipment or materials being stored directly on the floor. A daily check of rolling equipment shall be made for oil or battery acid leaks. The Contractor shall caution all Subcontractors about protecting the finished floor from staining materials such as oil, acid, chewing tobacco, cigarettes, coffee, soft drinks, and tire skid marks from rolling equipment.

1.3.3 Provide final clean-up of entire site and building interior and exterior, including the roof, before requesting Substantial Completion inspection.

1.4. Field Office

1.4.1 Provide weathertight shed or trailer with raised floors with adequate space for Contractor's and architect's needs.

1.4.2 Telephone: Install in field office for duration of construction work. Provide outdoor bell or bells to permit hearing ring from any part of Construction Site.

1.4.3 Contractor shall keep min. of 3 hard hats in field office for use by authorized visitors. These hats shall be kept in a clean and presentable condition.

1.4.4 Contractor shall at all times maintain a complete set of up-to-date Contract Documents in the field office. Documents which have been superceded shall be destroyed or clearly marked.

2. Products

Not Used

3. Execution

Not Used

End Of Section 01 50 00

Section 01 66 00

Product Storage and Handling Requirements
V02212011

4. General

4.1. Walk-In Coolers and Freezers, and associated Evaporator Coils and Rooftop Refrigeration Equipment

4.1.1 The General Contractor shall schedule a delivery date for this equipment, which date shall not be changed later than two weeks prior to the scheduled date. The following are prerequisites to delivery:

4.1.1.1 A stabilized roadway must be completed from a public street to and around the Publix building. Roadway and back around building shall accommodate the size and type of crane required to set steel and roof-top equipment.

4.1.1.2 All interior slabs must be poured.

4.1.1.3 All portions of the building must be dried in.

4.1.1.4 The area around the building must be accessible so that a crane will be able to lift the units from the ground to their rooftop locations.

4.1.1.5 On stores which have Rooftop Machine Rooms for housing Refrigeration Equipment, the Contractor must be prepared to make machine rooms weather-proof immediately after the equipment is set in place.

4.1.1.6 If the delivery date must be changed less than two weeks prior to a scheduled delivery date, the Contractor shall bear all costs for storage, demurrage, return and reshipping, etc.

4.2. Refrigerated Cases:

4.2.1 The General Contractor shall schedule a delivery date for this equipment, which date shall not be changed later than two weeks prior to the scheduled date. The following are prerequisites to delivery:

4.2.1.1 A stabilized roadway must be completed to the rear of the Publix building.

4.2.1.2 The cases will be unloaded on the concrete pad at the rear of the store. This pad must have been poured and cured for at least three days prior to delivery of the cases.

4.2.1.3 The building shall be secure. The General Contractor shall sign for receipt of the cases and be responsible for them, except for any damage caused by Publix' installation crew or Refrigeration Contractor.

4.2.1.4 The finished floor must be completely finished, cleaned, polished, stains removed, and sealed.

4.2.1.5 The interior of the Store Sales Area must be essentially complete, including painting, ceilings, wall coverings, wall tile, canopies, etc.

4.2.1.6 The area where cases are to be located must be swept clean.

4.2.1.7 Electrical wiring must be pulled and ready for connection.

4.3 Light Fixtures

4.3.1 The General Contractor shall notify Publix when he is ready to accept light fixtures.

4.3.2 The General Contractor shall sign for receipt of the light fixtures and be responsible for them.

4.3.3 The light fixtures shall be stored in a secure location on the job-site. The walk-in coolers and freezers may be used for this purpose.

5. Products

Not Used

6. Execution

Not Used

End Of Section 01 66 00

Section 01 77 00

Closeout Procedures
V02212011

1. General

1.1. Electric Service: Payment for electric service will become the responsibility of Publix Super Markets, Inc. at the earlier of two dates:

1.1.1 The date Publix starts up the refrigeration system permanently.

1.1.1.1 All testing and remediation of the refrigeration system shall be completed before this date.

1.1.1.2 The air conditioning system must also be ready by this date; the Contractor may start the air conditioning but Publix will not pay for electric service.

1.1.2 The date of Substantial Completion as established below.

1.2. The following requirements for Substantial Completion supplement those in AIA Document A201 General Conditions of the Contract For Construction, Paragraph 9.8.

1.2.1 When Substantial Completion is near, Publix will at the request of the Contractor prepare a list of items to be completed or corrected. All items on this "Punch List" must be corrected or completed to the satisfaction of Publix' representative except those items which Publix may specifically allow to be deferred to Final Inspection, before the inspection for Substantial Completion will be scheduled.

1.2.2 The following items are among those that must be completed prior to inspection for Substantial Completion:

1.2.2.1 The issuance of a Certificate of Occupancy and/or a Certificate of Use by authorities having jurisdiction.

1.2.2.2 Clean the entire work and site of all trash and used material. All equipment, fixtures, glass, metal, etc. shall be cleaned, ready for use with all shipping labels, manufacturer's removable labels, etc. removed.

1.2.2.3 Make all floors ready for use by cleaning. Posting of all required operating instructions for equipment.

1.2.2.4 Posting of typewritten panel board schedules.

1.2.2.5 Labeling of all lines and controls as required.

1.2.2.6 Sitework (signage, paving, striping, site utilities, landscaping, DOT requirements, and other ancillary work) performed under this Contract or other contracts.

1.2.3 After Publix' Representative has approved the disposition of all items on the Punch List, Publix will set a date for inspection for Substantial Completion. Discrepancies noted during this inspection may be cause for withholding issuance of Certificate of Substantial Completion at the discretion of Publix' Representative. Otherwise, a Certificate of Substantial Completion will be issued promptly.

1.3. The following requirements for Final Payment supplement those in AIA Documents A201 General Conditions of the Contract for Construction, Paragraph 9.10. The Contractor shall notify Publix when all deferred Punch List items have been corrected, at which time Publix will set a date for inspection for Final Payment.

1.3.1 The following items are among those which must be completed prior to the inspection for Final Payment:

1.3.1.1 Receipt by Publix of the Project Record Documents specified in Section 01720.

1.3.1.2 Receipt by Publix of a Closeout Book, which shall contain the following:

List of all Sub-Contractors, Sub-Sub-Contractors, And Suppliers.
All required Guaranties and Warranties.
All Operating Manuals, Service Instructions, and Parts Data.

1.4. At a time approximately one year after Substantial Completion Publix will schedule the One-Year Inspection of the Project. The Contractor shall send a representative. The Contractor shall correct any work found not to be in accordance with the requirements of the Contract Documents, as set forth in AIA Document A201 General Conditions of the Contract for Construction, Paragraph 12.2.2.

2. Products

Not Used

3. Execution

Not Used

End Of Section 01 77 00

Section 01 78 39

Project Record Documents (As-Built Drawings)
V01182012

1. General

1.1. Summary:

1.1.1 Publix will supply a compact disc with TIFF images of the construction documents prepared by Publix Super Markets, Inc. to the General Contractor upon awarding of Bid. The General Contractor will be responsible for reproduction of hard copies to complete the requirements of this Section regarding the Job Set and Final Record Documents.

1.1.2 Throughout progress of the Work, maintain an accurate record of changes in the Contract Documents, and, upon completion of the Work, transfer the recorded changes to a set of "Final Record Documents", as described in article 1.5 below.

1.1.3 The purpose of the Final Project Record Documents is to provide accurate information regarding all aspects of the Project, both concealed and visible, so maintenance and future modification of the Work may proceed without extensive investigation of existing conditions.

1.2. Final Project Record Set Approvals:

1.2.1 Publix' Representative's approval of the status of the Final Project Record Documents may be a prerequisite to Publix' approval of requests for Progress Payments.

1.2.2 Prior to submitting Request for Inspection for Final Payment, submit the Final Project Record Documents to Publix. Final Payment will not be approved until Documents are received by Publix.

1.2.3 Deliver the original and two copies of Final Project Record Documents to Publix's representative within 30 days of owner acceptance.

1.3. Quality Assurance: Delegate responsibility for maintenance of Final Project Record Documents to one person on the Contractor's staff as approved by Publix' Representative.

1.4. Maintenance of Job Set

1.4.1 Job Set: Designate one of the sets of Contract Document Drawings provided to the Contractor at the start of the Project as the Final Project Record Document Job Set. Immediately identify each sheet of the documents with the title "Record Documents - Job Set."

1.4.2 Thoroughly coordinate changes within the Record Documents. Make adequate entries on each sheet of Publix' prototype Project Manual, the supplemental Architectural and Engineering Drawings and Specifications, and the Civil Engineering, Landscaping, and Site Utilities Drawings.

1.4.3 Do not use the Job Set for any purpose except entry of new data and for review by Publix' Representative, until start of transfer of data to the Final Record Documents.

1.4.4 Make entries on the Job Set within 24 hours after receipt of information that a change has occurred.

1.4.5 Maintain the Job Set of Final Project Record Documents completely protected from deterioration and from loss or damage until completion of the Work and transfer of all recorded data to the Final Project Record Documents.

1.4.6 In the event of loss of recorded data, use means necessary to again secure the data to Publix' Representative's approval. Such means shall include removal and replacement of concealing materials if this is necessary in the opinion of Publix' Representative.

1.4.7 Change Data: Make change entries on drawings as follows:

1.4.7.1 Make entries in erasable colored pencil.

1.4.7.2 Call attention to each entry by drawing a "cloud" around each area affected; date all entries.

1.4.7.3 In the event of overlapping changes, use a different color for subsequent changes, so that the final construction is evident.

1.4.8 Schematic Conversion Data.

1.4.8.1 Show on the Job Set of Record Drawings, by dimension, accurate to within one inch, the location of each run of underground conduit, pipe, etc. Clearly identify each item by accurate note such as "PVC drain", "gal. water", and the like. Clearly note the depth of each run beneath the finished floor.

1.4.8.2 Call attention to each entry by drawing a "cloud" around each area affected.

1.5. Final Project Record Documents

1.5.1 Obtain base drawings for Final Record Documents. At a time nearing the completion of the Work, secure from the Architect at no charge to the Contractor one complete set of Contract Document Drawings.

1.5.2 Approval of recorded data prior to transfer: Following receipt of the set of base drawings of the Final Record Documents, and prior to the start of transfer of data from the Job Set to the Final Record Documents, secure the review and approval of all recorded data by Publix' Representative. Make all required revisions to the Job Set.

1.5.3 After approval, carefully transfer change data and schematic conversion data shown on the Job Set of Record Drawings to the corresponding sheets, calling attention to each entry by drawing a "cloud" around the affected area. Dates of changes are not required. Use proper media to assure longevity and clear reproduction.

2. Products

Not Used

3. Execution

Not Used

End Of Section 01 78 39

Section 03 30 00

Cast-in-Place Concrete
V07282017

1. General

1.1. Scope

1.1.1 Furnish all materials, labor, equipment and services necessary and incidental to complete the cast-in-place concrete work indicated, implied on contract drawings, or as specified.

1.1.2 The Contractor shall coordinate with other trades regarding installation of embedded items, and shall obtain inserts from related trades, such as plumbing, HVAC, roofing etc., and install under this section.

1.1.3 Grout fill of hollow masonry units and hollow masonry pilasters is specified under masonry.

References: the following specifications, codes and standards of current issue (hereafter referred to by acronym or alpha/numeric designation only) form a part of this specification:

1.2.1 American Concrete Institute

1.2.1.1 ACI 117: Standard Tolerances for Concrete Construction and Materials

1.2.1.2 ACI 211.1: Recommended Practice for Selecting Proportions for Normal Weight Concrete

1.2.1.3 ACI 221: Guide for Use of Normal Weight Aggregates in Concrete

1.2.1.4 ACI 301: Specification for Structural Concrete for Buildings

1.2.1.5 ACI 302: Guide for Concrete Floor and Slab Construction

1.2.1.6 ACI 305: Hot Weather Concreting

1.2.1.7 ACI 306: Cold Weather Concreting

1.2.1.8 ACI 315: Details and Detailing of Concrete Reinforcement

1.2.1.9 ACI 318 Bldg. Code Requirements for Reinforced Concrete (see other paragraphs of this Section for exceptions)

1.2.1.10 ACI 347: Recommended Practice for Concrete Form Work

1.2.2 American Society for Testing and Materials

1.2.2.1 ASTM A1064 Standard Specification for Carbon-Steel Wire and Welded Wire Reinforcement, Plain and Deformed, for Concrete.

1.2.2.2 ASTM A 615: Specification for Deformed and Plain Billet-Steel Bars for Concrete Reinforcement

1.2.2.3 ASTM C 31: Making and Curing Concrete Test Specimens

1.2.2.4 ASTM C 33: Specification for Concrete Aggregates

1.2.2.5 ASTM C 39: Compressive Strength of Cylindrical Concrete Test Specimens

1.2.2.6 ASTM C 143: Slump of Portland Cement Concrete

1.2.2.7 ASTM C 150: Specification for Portland Cement

1.2.2.8 ASTM C 260: Air-Entraining Admixtures for Concrete

1.2.2.9 ASTM E 1745-97: Standard Specification for Plastic Water Vapor Retarders Used in Contact with Soil or Granular Fill Under Concrete Slabs

1.2.2.10 ASTM E 154-88: Standard Test Methods for Water Vapor Retarders Used in Contact with Earth Under Concrete Slabs

1.2.2.11 ASTM E 96-95: Standard Test Methods for Water Vapor Transmission of Materials

1.2.2.12 ASTM 1643-98: Standard Practice for Installation of Water Vapor Retarders Used in Contact with Earth or Granular Fill Under Concrete Slabs

1.2.3 Concrete Reinforcing Steel Institute: Manual of Standard Practice

1.2.4 Applicable Building Code

1.3. Submittals:

1.3.1 Submit LOI in accordance with Section 01 33 00 Submittal Procedures.

1.3.2 Design Mixes:

1.3.2.1 Submit written reports to Engineer of each proposed mix for each class of concrete at least 15 days prior to the start of Work. Do not begin concrete production until proposed mix designs have been reviewed by Engineer.

1.3.2.2 Reports shall include material certifications and product data for all materials proposed for use.

1.3.2.3 Separate mix designs shall be required for each admixture or combination of admixtures proposed for each class and strength of concrete reviewed by the Engineer.

1.3.2.4 Reports shall include wet and dry unit weights for each mix design.

1.3.3 Shop Drawings: Submit in accordance with Section 01340 Submittals, prepared as described by ACI 315. Show complete plans, scaled sections, and elevations; clearly indicate all openings, ledges, haunches, construction joints required, and other pertinent items. Show size, mark, and location of all reinforcing steel, bar schedules, and bending schedules.

1.3.4 Samples of materials shall be submitted if requested by the Engineer.

1.3.5 Product data for proprietary materials and items, including reinforcement and forming accessories, admixtures, patching compounds, waterstops, joint systems, curing compounds, dry-shake finish materials and others if requested by the Engineer.

1.3.6 Submit certificate from aggregate supplier, countersigned by concrete supplier verifying that all aggregates furnished for and used in concrete for this project conform to ASTM C 33

1.3.7 Certification of conformance to requirements, and the chloride ion content of the admixture will be required from the admixture manufacturer prior to mix design review by the Engineer.

1.4 Quality Assurance - Single-Source Responsibility For Concrete Materials: Obtain concrete ingredients of uniform quality, including color for exposed concrete, from one manufacturer for each cementitious component and from one source and producer for each aggregate.

1.5. Field Quality Control

1.5.1 Employ a Testing Laboratory experienced in testing of concrete materials to perform material evaluation tests and to submit test reports. The laboratory conducting the testing must comply with the requirements of ASTM C 1077. Publix reserves the right to disallow any Testing Laboratory.

1.5.2 Sampling Fresh Concrete: ASTM C 172, except modified for slump to comply with ASTM C 94.

1.5.3 Slump: ASTM C 143; one test for each concrete load at point of discharge for all normally placed concrete, and point of placement for pumped concrete, and one for each set of compressive strength test specimens.

1.5.4 Air Contents: ASTM C 173, Volumetric Method For Light Weight Concrete; ASTM C 231 Pressure Method For Normal Weight Concrete; Take one air content test for every other concrete load at point of discharge, when the concrete mix design includes an air entraining agent. Air content tests are not required for mixes with entrapped air only.

1.5.5 Concrete Temperature: Test hourly when air temperature is 40F (4C) and below, and when 80F (27C) and above; and each time a set of compressive strength specimens is made.

1.5.6 Compressive Strength Specimen: ASTM C 31; one set of 4 standard cylinders for each compressive strength test, unless otherwise directed. Mold and store cylinders for laboratory-cured test specimens except when field-cure test specimens are required.

1.5.7 Compressive Strength Tests: ASTM C 39; one set for each 50 cubic yards or fraction thereof, of each mix design placed in any one day or for each 3,000 square feet of surface area placed; one specimen tested at seven days, two tested at 28 days, and one specimen retained in reserve for later testing if required.

1.5.8 Test results shall be reported in writing to Publix Structural Engineer, Publix Construction Department, Ready Mix Producer, and Contractor within 24 hours. Reports of compressive strength test shall contain:

1. The Publix store name and number
2. Date of concrete placement
3. Name of concrete testing service
4. Mix design number and specimen numbers
5. Design compressive strength at 28 days
6. Location of concrete batch in structure
7. Ambient temperature at job site
8. Slump
9. Air content, as noted in 1.5.4
10. Concrete temperature
11. Time from batching to sampling at site
12. Any added water at the site (see 2.5.3)
13. Compressive strength and type of break for each cylinder
14. Provide reports for 7 day and 28 day breaks

1.5.9 Additional Tests: Coring of concrete anywhere in the structure shall be done only with written approval by Publix Engineer.

1.5.10 Publix acceptance of the test reports does not in any way relieve the Contractor of his responsibility to insure the strength, slump, and quality of the in-place concrete meets the requirements of the Contract Documents.

1.6. Remediation:

1.6.1 Seven (7) day compressive strength shall not be less than 75% of the 28 day strength. Twenty-eight day strength shall be not less than 100% of the 28 day design strength. The [illegible] strength will be determined by the method described in ACI 318 Sections 5.6.2.1, 5.6.2.[illegible] and the corresponding ASTM Designation (C 39).

1.6.2 If core testing reveals defective material, remove nonconforming concrete and replace with new concrete in its place.

1.6.3 Perform additional tests required to verify compliance of replacement concrete.

1.7. Pre-Slab Conference: At least one week prior to the beginning of the installation of slabs on grade, the Contractor shall hold a meeting with all affected Subcontractors or Suppliers and the [illegible] Manufacturer to review the detailed requirements for the floor methods and procedures, including concrete and reinforcing placement, joint layout, placing techniques, finishing techniques, admixture usage, and curing procedures. At least one person on the finishing crew must be certified as an ACI Flatwork Finisher, or equivalent.

1.8. Inspection: Notify Publix Super Market, Inc.'s Representative 48 hours (min.) in advance of pours so that he may:

1.8.1 Observe all reinforced concrete placement unless otherwise directed by the Engineer.

1.8.2 Check size, grade, spacing, and clearances of all reinforcing and wire mesh.

1.8.3 Check lap lengths

1.8.4 See that reinforcing is clean.

1.8.5 See that forms are properly cleaned and oiled when required.

1.8.6 See that steel has been properly placed and tied.

1.8.7 See that forms for columns and beams are fully constructed, except that one (1) side of form is removed to allow for visual inspection.

1.9. Delivery, Storage, And Handling: Reinforcing steel shall be delivered to the building site, stored, and covered in a manner which will insure that no damage from moisture, dirt, grease, or any other substance will impair bond with concrete.

1.10. Existing Conditions:

1.10.1 Inspect and field verify all existing surfaces, structures, and dimensions in or adjacent to where Work is to be installed.

1.10.2 Notify the Engineer in writing, before any work is installed, of any condition in disagreement with the Contract Documents or otherwise requiring correction. Failure to make such a report will be construed as acceptance of the existing conditions and acceptance of the responsibility to provide a proper installation.

2. Materials

2.1. General: All materials shall be delivered, stored and handled to prevent inclusion of foreign materials, damage by water, or breakage. Materials shall be stored and delivered in original packages.

2.2. Concrete Materials

2.2.1 Aggregates

2.2.1.1 Fine and coarse aggregates shall conform to the requirements of ASTM C 33, ACI 221 and ACI 301.

2.2.1.2 Coarse aggregate for normally placed concrete at foundations, pedestals, floor slabs, stem walls, steps and other locations shall meet ASTM C 33 Size No. 57 (1" to no. 4).

2.2.1.3 Coarse aggregate for pump mix shall meet ASTM Size No. 8 (3/8" to no. 8).

2.2.1.4 All aggregate for this Project shall be from one source and of uniform color throughout.

2.2.1.5 "Opaline Chert" shall not be used.

2.2.1.6 Sand shall be capable of developing 90% of the strength of standard Ottawa sand, and shall not contain more than 3% clay. The size of the sand shall be such that not less than 85% shall pass through a 1/4" sieve, not more than 30% through a 50 mesh sieve, and not more than 5% through a 100 mesh sieve. Test reports shall be furnished with design mixes indicating strength and gradation.

2.2.2 Cement

2.2.2.1 Normal Portland cement shall be type I conforming to the requirements of ASTM C 150 and shall be used for all concrete work. All cement for this project shall be from one source and of uniform color throughout unless special colors or finishes are noted.

2.2.2.2 Fly Ash, slag, or silica fume shall not be used

2.2.3 Water: Water for concrete shall be potable or comply with ASTM C 1602.

2.2.4 Reinforcement

2.2.4.1 Bars: ASTM A 615, Grade 60, unless otherwise shown on Drawings, using deformed bars for no. 3 and larger.

2.2.4.2 Reinforcement Accessories: High chairs, spacers, bolsters, etc. shall meet the requirements of CRSI.

2.2.4.3 Welded Steel Wire Fabric Reinforcement: ASTM A 185

2.2.4.4 Plate dowels for slab construction joints shall be smooth steel plate bars, ASTM A36 steel. Plate dowels shall be one of the following:

"Diamond Dowel System": 1/4" x 4 1/2" x 4 1/2", PNA Construction Technologies
"EZDowel": 1/4" x 6 1/2" x 3 1/2", McTech Group
"Speed Plate System": 1/4" x 4" x 6", Greenstreak

2.2.5 Admixtures

2.2.5.1 No admixtures shall be incorporated in concrete unless written authorization is received from Publix' Engineer.

2.2.5.2 Prohibited Admixtures: Calcium Chloride, Thiocyanates or admixtures containing more than 0.05% chloride ions are not permitted.

2.2.5.3 Air Entraining Admixture: ASTM C 260, certified by Manufacturer to be compatible with other required admixtures.

2.2.5.4 Air Entraining Admixture: ASTM C 260, certified by Manufacturer to be compatible with other required admixtures.

2.2.5.4.1 Manufacturers

Euclid Chemical Company
Grace Construction Products
BASF Chemical Co.

2.2.5.5 Freeze Protection Admixture: Shall conform to ASTM C494 Type E except as modified herein

2.2.5.5.1 Admixture shall provide accelerated setting times and increased early and ultimate strengths

2.2.5.5.2 Admixture shall protect concrete from damage from freezing at concrete temperatures as low as 40 F (4 C) and ambient temperatures as low as 20 F (-7 C).

2.2.5.5.3 Manufacturers

BASF Chemical Co
Grace Construction Company
Euclid Chemical Company

2.2.5.6 Water Reducing Admixture: ASTM C 494, Type A

2.2.5.6.1 Manufacturers

Euclid Chemical Co.
Grace Construction Products
BASF Chemical Co.

2.3. Related Materials:

2.3.1 Vapor Barrier:

2.3.1.1 Moisture/Vapor Barrier: ASTM E 1745, Class A, 15mil minimum.

"Stego 15 mil Vapor Barrier", STEGO Industries LLC
"VaporBlock 15", Raven Industries
"Perminator 15mil", W.R. Meadows
"Rhinomat-15", Interwrap, Inc.
"Husky Orange Guard - 15mil", Poly-America
"Viper II - 15mil", Insulation Solutions
"X-treme 15 Mil", Tex-Trude

2.3.1.2 Tape for Sealing Laps: Use manufactures' matching product or approved equal.

2.3.1.3 Mastic for Sealing Penetrations: Use manufacturers' matching product or approved equal.

2.3.2 Emery-Aggregate Dry-Shake Hardener: Blended and packaged, natural gray colored, dry shake hardener containing portland cement, aluminum oxide particles, and wetting agents or plasticizers. Acceptable manufacturers and products are:

"Colorbrite", Natural, Lambert Corporation
"Surflex E", Natural, Euclid Chemical Company

2.3.3 Penetrating Cure and Hardener Agent: When placing over slab with dry shake hardener, verify the compound is compatible. Acceptable manufacturers and products are:

"Gardseal", Lambert Corporation
"Kure-N-Harden", BASF Chemical Company

2.3.4 Absorptive Cover for Curing:

Burlap cloth made from Jute or Kenaf, complying with AASHTO M 182 or absorptive Curing Blankets, that retain water saturated environment for curing (not plastic sheets).

2.4 Proportioning and Design of Mixes:

2.4.1 Mix designs shall be proportioned in accordance with Section 5.3 of ACI 318 "Proportioning on the Basis of Field Experience and/or Trial Mixtures".

2.4.2 If trial batches are used, the mix design shall be prepared by an independent testing laboratory, and shall achieve an average [illegible] 1200 psi higher than the specified strength. The over-design shall be increased to 1400 psi when concrete strengths over 5000 psi are used.

2.4.3 Design mixes to provide normal weight concrete with the following properties, as indicated on the Drawings and Schedules:

2.4.3.1 Maximum W/C Ratios: 0.58 for 3000 psi, 0.44 for 4000 psi. Provide a minimum of 500 lbs of portland cement per cubic yard of concrete.

2.4.4 Proportion of design mixes to result in concrete slump at point of placement as follows:

2.4.4.1 Reinforced Foundation Systems: Not less than 3 inches and not more than 5 inches.

2.4.4.2 Concrete containing high-range water-reducing admixture (superplasticizer): Not less than 9 inches and not more than 11 inches.

2.4.4.3 Other concrete: Refer to structural drawings.

2.5. Concrete Mixing

2.5.1 Transit-mixed concrete may be used. It shall be mixed and delivered in accordance with the requirements set forth in the Standard Specifications for Ready Mixed Concretes of the ACI 304, Latest Edition.

2.5.2 Ready Mix Concrete: Comply with requirements of ASTM C 94, and as specified.

2.5.2.1 When temperature is between 85F (30C) and 90F (32C), reduce mixing and delivery time from 90 minutes to 75 minutes, and when air temperature is above 90F (32C) reduce mixing and delivery time to 60 minutes.

2.5.2.2 No concrete shall be placed when internal temperature of the concrete exceeds 90F.

2.5.3 No additional water, except when approved by the concrete ready mix supplier, shall be added to any concrete batch at the job site. Such approved additions, by the ready mix supplier representative, shall by noted on the delivery ticket, as well as on the compressive strength test reports for that specific batch.

2.6. Engineer's review of the design mix does not relieve the Contractor of his responsibility to insure that the strength, slump, and quality of the in-place concrete meets the requirements of the Contract Documents.

3. Part 3 - Execution

3.1 Preparation

3.1.1 Inspect Prepared Pad for suitability to receive concrete slab. Where areas may be deficient, perform tests to determine suitability for concrete placement. Where extensive testing may be required, notify Publix Engineer.

3.1.2 Where concrete is poured in exposed to view locations, examine form work for suitability to produce smooth, even surfaces in finished work.

3.1.3 Ensure that cavity caps are in place to prevent concrete from filling masonry cavities where pours are over masonry walls.

3.2 Reinforcing

3.2.1 Avoid cutting or puncturing vapor retarder during reinforcement placement and supports and as herein specified.

3.2.2 Metal reinforcement, before being positioned, shall be thoroughly cleaned of all mill and rust scale, and of coatings of any character that will destroy or reduce the bond.

3.2.3 All reinforcement shall be carefully bent to the required dimensions and in accordance with the requirements of CRSI.

3.2.4 Shop form all reinforcing to dimensions required, conform to ACI 117 for forming tolerances.

3.2.5 All reinforcement shall be placed accurately in position using particular care to place the steel at its proper position in the cross section. Bars shall be held securely in place by ties and bracing in a way that will not allow displacement by tamping of the concrete. Slab reinforcing shall be supported on suitable reinforcing chairs or spacing bars.

3.2.6 Laps:

3.2.6.1 Conform To ACI 318., and as noted on drawings.

3.2.6.2 Avoid lapping bars wherever possible.

3.2.6.3 Wire Mesh: Lap adjoining pieces at least one full mesh and lace splices with wire. Offset end laps in adjacent widths to prevent continuous laps in either direction.

3.2.7 On exterior exposed work, no ties or spacers shall be permitted to remain within 3/4" of the finished surfaces. Place reinforcement to obtain at least minimum coverage for protection. Set wire ties so ends are directed into concrete, not toward surfaces.

3.2.8 Holes for ties and spacers shall be patched with an approved polymer patching mortar immediately after stripping forms.

3.2.9 Install welded wire fabric in longest practicable lengths.

3.2.10 Unless otherwise specified or called for, provide the following minimum reinforcing:

3.2.10.1 1 #3 bar in each concrete stair nosing (except metal pan stairs).

3.3. Forms

3.3.1 Forms shall conform to the shapes, lines, and dimensions of the member as shown in the Drawings, and shall be substantial, mortar tight, free from surface defects, and properly braced and tied together, so as to maintain position and shape. All form-work shall be in accordance with ACI 347.

3.3.2 Forms shall be closely fitted to produce smooth, clean surfaces without fins or offsets.

3.3.3 Plywood shall be oiled or lacquered before reinforcing is placed. Oil shall be non-staining mineral oil.

3.3.4 Column forms shall be secured with external yokes. Banding with steel tape is not permitted.

3.3.5 Provide openings in concrete form-work to accommodate work of other trades. Determine size and location of openings, recesses, and chases from trades providing such items. Accurately place and securely support items built into forms.

3.3.6 Thoroughly clean forms and adjacent surfaces to receive concrete. Remove chips, wood, sawdust, dirt or other debris just before concrete is placed. Re-tighten forms and bracing before concrete placement as required to eliminate mortar leaks and maintain proper alignment.

3.4. Installation of Vapor Barrier:

3.4.1 Level and tamp or roll aggregate, sand or tamped earth base.

3.4.2 Installation of vapor barrier shall be in accordance with manufacturer's instructions and ASTM 1643-98.

3.4.3 Unroll vapor barrier with the longest dimension parallel with the direction of the pour.

3.4.4 Lap vapor barrier over footings and seal to foundation wall.

3.4.5 Overlap joints 6 inches and seal with manufacturer's tape or approved equal.

3.4.6 Seal all penetrations (including pipes) per manufacturer's instructions.

3.4.7 No penetration of the vapor barrier is allowed except for reinforcing steel and permanent utilities.

3.4.8 Repair damaged areas by cutting patches of vapor barrier, overlapping damaged area 6 inches and taping all sides with manufacturer's tape or approved equal.

3.5. Installation of Embedded Items

3.5.1 Set and build into work anchorage devices and other embedded items required for other work that is attached to, or supported by cast-in-place concrete. Use setting drawings, diagrams, instructions and directions provided by suppliers of items to be attached.

3.6. Concrete Placement

3.6.1 Comply with ACI 304 "Recommended Practice for Measuring, Mixing, Transporting, and Placing Concrete", and as herein specified.

3.6.2 Cold Weather Placement:

3.6.2.1 Comply with ACI 306R as follows:

3.6.2.1.1 When the air temperature has fallen to or is expected to fall below 40 degrees F, uniformly heat water and aggregates before mixing to obtain a concrete mixture of not less than 50 degrees F. Obtain Publix Engineer's approval if an

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SUPER MARKETS

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PLOT DATE:
25 AUG 2017

REVISION DATA:

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