4.2.1.2 Where store receives rear or side exterior portland cement plaster: See Section 09220 - Lath and Portland Cement Plaster, color as selected by Shopping Center Architect and approved by Publix' Architect.

4.2.2 Exterior Ferrous Metal (not aluminum or shop painted):

1st Coat - Pro-Cryl Universal Water Based Primer B66-310
5-10 mils wet, 2-4 mils dry

2nd and 3rd Coats - SW Pro Industrial DTM Semi-gloss - Waterborne - B66W1150 Series

Color as indicated, or if not indicated, as selected by Publix Architect.

4.2.3 Exterior Doors and Jambs

1st Coat - Pro-Cryl Universal Water Based Primer B66-310
5-10 mils wet, 2-4 mils dry

2nd and 3rd Coats - SW Pro Industrial DTM Semi-gloss - Waterborne - B66W1150 Series
6.0-10.0 mils Wet, 2.5-4.0 mils Dry

Outside color as selected by Shopping Center Architect and approved by Publix' Architect: inside color as specified in interior paint paragraphs.

4.3. Interior Paint Schedule

4.3.1 Concrete-Poured in Place, Pre-Cast (Ceiling)

SIENNA/SIENNA LITE PROTOTYPES: (when ceiling is painted SW 6102 Portabello)

Primer-SW Loxon Block Surfacer-Waterborne-A24W200. 16 mils wet, 8 mils dry

2nd and 3rd Coats- SW Waterbone Acrylic Dry Fall Flat B42T1 (tinted to SW 6102 Portabello) 7
7.0-11.0 mils wet dry

4.3.2 Pre-Cast Concrete Double "T" Structural Roof/Ceiling Assembly & Galvanized Metal Brackets (for stores that are designated as "Uniques" ONLY)

1st Coat: Pro Industrial Waterborne Acrylic Dryfall, Eg-Shel, B42W82

2nd Coat: Pro Industrial Waterborne Acrylic Dryfall Eg-Shel, B42W82 Series

4.3.3 Concrete Masonry (Back Rooms and Stair Wells)

1st Coat - SW Loxon Block Surfacer - Waterborne - A24W200.
16 mils wet, 8 mils dry

2nd and 3rd Coats - SW ProMar 400 Zero VOC Interior Latex Semi-Gloss, B31-4600 Series4 mils wet, 1.3 mils dry per coat

4.3.4 Concrete Masonry (Sales Area)

1st Coat - SW Loxon Block Surfacer - Waterborne - A24W200.
16 mils wet, 8 mils dry

2nd and 3rd Coats - SW ProMar 400 Zero VOC Flat, B30W4600 Series
4 mils wet, 1.2 mils dry per coat

(Provide Semi-gloss finish from finished floor to 8' A.F.F. at all walls facing the sales area.).

4.3.5 Concrete Masonry with Epoxy where indicated

1st Coat - Loxon Block Surfacer - Waterborne - A24W200.
16 mils wet, 8 mils dry

2nd and 3rd Coats - Pro Industrial Water based Epoxy Gloss, B73-300/B73V300

(5.0-10.0 mis Wet, 2.0-4.0 mils Dry)

Gypsum Wallboard (Sales Area):

1st Coat - SW ProMar 200 Zero VOC Interior Latex Primer, B28W02600 4 mils wet, 1.1 mils dry

2nd and 3rd Coats - SW ProMar Zero VOC Interior Latex Flat, B30-4600 Series 4 mils wet, 1.2 mils dry per coat

(Provide Semi-gloss finish from finished floor to 8' A.F.F. at all walls facing the sales area.).

4.3.6 Gypsum Wallboard in Back-rooms:

1st Coat - SW ProMar 200 Latex primer, B28W2600
4 mils wet, 1.1 mils dry

2nd and 3rd Coats. SW ProMar 400 Semi-Gloss, B31W4600 Series mils 4 mils wet, 1.1 mils dry per coat

4.3.7 Customer Service, Front Offices, Cash Room, General Office and Manager's Offices, Restroom Ceilings (where indicated as painted):

1st Coat - SW ProMar 200 Latex Primer, B28W2600
4 mils wet, 1.1 mils dry.

2nd and 3rd Coats - 2nd and 3rd Coats - SW ProMar 400 Zero VOC Interior Latex Semi-Gloss, B31-4600 Series
4 mils wet, 1.3 mils dry per coat

4.3.8 Gypsum Wallboard behind Refrigerated Cases

One Coat - SW ProMar 200 Latex Primer, B28W2600
4 mils wet, 1.3 mils dry

4.3.9 Plywood, Wood Shelving, Wood Base (Wainscot in back rooms):

1st Coat - Multi-Purpose Primer B51-450
4 mils wet, 1.4 mils dry

2nd and 3rd Coats - SW ProMar 400 Zero VOC Interior Latex Semi-Gloss, B31-4600 Series
4 mils wet, 1.3 mils dry per coat

4.3.10 FRP (Remodels only)

1st Coat - SW Extreme Bond Primer, B51W150
4 mils wet, 2 mils dry

2nd & 3rd Coats - SW Pro Industrial Water based Epoxy Gloss, B73-300/B73V300
(5.0-10.0 mils Wet, 2.0-4.0 mils dry)

4.3.11 Plenum Areas (In Bakery, around hoods, oven & supply or exhaust curtain walls where other finish is not indicated.)

1st Coat - ProMar 200 Latex Primer, B28W2600
4 mils wet, 1.1 mils dry

2nd and 3rd Coats - 2nd and 3rd Coats - SW ProMar 400 Zero VOC Interior Latex Semi-Gloss, B31-4600 Series
4 mils wet, 1.3 mils dry per coat

4.3.12 Interior Exposed Metal (Brush application - all metals except as allowed in spray applications listed below.):

1st Coat - Kem Kromik Universal Metal Primer - Solvent based - B50WZ1.
6.0-8.0 mils wet, 3.0-4.0 mils dry

2nd and 3rd Coats - SW SuperPaint Interior Latex Semi-Gloss - A88 series
4.0 mils wet, 1.6 mils dry per coat

Color: To match adjacent wall.

4.3.13 Interior Exposed Metal: Structural steel and primed metal deck; electrical work; fittings, and other work, fire sprinkler piping; plumbing and gas piping; hangers, and other supports; other exposed items which are not factory finished):

Spot Prime (all unprimed ferrous metal, field welds and rusted areas) - SW Kem Kromik Universal Primer B50WZ1
6.0-8.0 mils wet, 3.0-4.0 mils dry

1st and 2nd Coats - SW Super Save-Lite Dryfall Semi-gloss B47W62
6.0 mils wet, 3.0 mils dry per coat

SIENNA/SIENNA LITE PROTOTYPES ONLY (Only when ceiling is painted Portobello)

Step 1. Spot Prime for Rusted Areas: To be used on weld joints and rust areas: SW Kem Kromik Universal Metal Primer, B50 Series (use as needed)

1st Coat: SW Super Save Lite Dry Fall, B48W61 [illegible] not tinted-spray as primer color)
(6-6.5 mils wet, 3-3.5 mils dry)

2nd and 3rd Coats: SW Waterbone Ac[illegible]all B42T1 Clear Tint Base (flat)(Tinted to SW6102 Portabel[illegible]
7-11 mils wet, 3-4.5 [illegible]

4.3.14 Interior [illegible]ized Metal: [illegible]ework [illegible]acent hangers and su[illegible] refrigeratio[illegible] and misc[illegible]ized metal. (Spray applicatio[illegible]ved over 13 ft. AFF[illegible]tect galv[illegible]ed surfaces from oth[illegible] coatings. See previous secti[illegible] cleaning [illegible]anized surfaces.

1st Coat [illegible] DTM Ac[illegible]66W1
[illegible] mils wet, [illegible] dry

2nd and 3rd [illegible] 2nd and 3rd Coats - SW ProMar 400 Zero VOC Interior Latex [illegible]s, B31-4600 Series
4 [illegible]et, 1.3 mils dry per coat
[illegible] for color selection.

4.3.15 Refrigeration Pipe Insulation

1st Coat - SW Pro Industrial DTM Semi Gloss- Waterborne- B66W1150 Series, 6.0-10.0 mils Wet, 2.5-4.0 mils dry

2nd Coat - SW Pro Industrial DTM Semi Gloss- Waterborne- B66W1150 Series, 6.0-10.0 mils Wet, 2.5-4.0 mils dry

4.3.16 Glycol Refrigeration Piping (light colored final coat)

1st Coat - Tint to P1 SW Extreme Bond Primer, B51W150
6.5 mils wet, 1 mils dry

2nd Coat - SW Pro Industrial DTM Semi Gloss- Waterborne- B66W1150 Series, 6.0-10.0 mils Wet, 2.5-4.0 mils dry

4.3.17 Glycol Refrigeration Piping (dark colored final coat)

1st Coat - Tint to P3 SW Extreme Bond Primer, B51W150
6.5 mils wet, 1 mils dry

2nd Coat - SW Pro Industrial DTM Semi Gloss- Waterborne- B66W1150 Series, 6.0-10.0 mils Wet, 2.5-4.0 mils dry

4.3.18 Fillers

Paintable caulking - SW Loxon S1 Smooth Polyurethane Sealant

Spackling compound - SW C-50.

All caulking and spackling shall be done after prime coat is applied.

4.3.19 Putty

DAP "33" Glazing Compound

End of Section 09 91 00

Section 10 21 13

Toilet Compartments
V09022016

1. General

1.1. Submittals:

1.1.1 Submit LOF in accordance with Section 01 33 00 Submittal Procedures.

1.1.2 Shop drawings showing plans, elevations, and attachment and hardware details.

2. Products

2.1. Manufacturers:

Santana Comtec Capitol, Scranton, PA
Mills/Bradley, Menomonee falls, WI
Global Steel Products Corp., Deer Park, NY
Ampco Products, Inc., Miami, FL

2.2. Construction: Partitions shall be 1" thick, high density polyethylene (HDPE); all edges shall be machined to a radius of 0.250" and all sharp corners removed. All dividing panels and doors shall be 55" high mounted 14" A.F.F., or 58" high mounted 12" A.F.F.

2.3. Color: See finish legend in construction documents for partition color.

2.4. Hardware: Finishes will be either bright anodized or satin finish aluminum unless noted otherwise.

2.4.1 Wall Brackets: Continuous full-panel-length extruded.

2.4.2 Head Rails: Extruded.

2.4.3 Pilaster Shoes: 20 ga stainless steel.

2.4.4 Hinges: Must be designed to allow emergency access.

2.4.4.1 8 inch Aluminum Hinges must be used

2.4.5 Latches: Must be designed to allow emergency access.

2.4.5.1 Aluminum, brite anodized.

2.4.6 Handles: Provide handle on both sides of door

2.4.7 Strikes: Must be designed to allow for emergency access.

2.4.8 Bumper/Hooks: Heavy chrome plated zamac.

2.4.9 Pull (accessible stall and ambulatory stalls only): Provide pulls on both sides of stall door - heavy duty chrome plated zamac.

3. Execution

3.1. Installation: Installation shall be in accordance with approved drawings and manufacturer's standard recommendations.

End of Section 10 21 13

Section 10 22 13

Wire Mesh Partitions
V02212011

1. General

(Not used)

2. Products

2.1. Chain Link Fence:

2.1.1 Provide galvanized chain link fencing where shown or scheduled

2.1.2 2" mesh wire #9 W & M gauge with 3"d corner post max. and 2" top and bottom rails, and 1-5/8" horizontal intermediate rail and 2 1/2" line posts, 8' - 0" o.c. outer gate frame 1-5/8", inner frame 1-3/8"; gate 3'-0" x 7'-0". All parts galvanized. Generator fence shall have a chain link top.

2.1.3 Provide fence around and over generator. Coordinate with size of generator with minimums as follows:

Width - 10'-0"
Side at building exterior wall - vandal proof
Minimum clearance at one side - 3'-0"
Minimum clearance at end - 3'-0"
Sides - 7'-0" height.
Top - full coverage.

2.1.4 Verify if fence is required around transformer vault and provide per power company specifications.

3. Execution

(Not Used)

End of Section 10 22 13

Section 10 28 13

Toilet Accessories
V01062015

1. General

1.1. Submittals:

1.1.1 Submit LOI and manufacturer's literature in accordance with Section 01 33 00 Submittal Procedures. Provide item count for each supplied accessory.

2. Products

2.1. Toilet Accessories: Model numbers listed are for Bradley accessories. Equivalent model numbers are listed in the LOI.

2.1.1 Mirror (MR1): 1/4" float glass, quality Q3 or better mirror with galvanized steel back, stainless steel frame and with theft proof mounting, 16"x 36". Bradley, ASI or Bobrick. (Model B-165-1636)

2.1.2 Mirror (MR2) 1/4" float glass, quality Q3 or better, polished edges, 18" x 42". Bradley, ASI or Bobrick. (Model 7-17-7471)

2.1.3 Mirror (MR3) 1/4" float glass, quality Q3 or better mirror with galvanized steel back, stainless steel frame and theft proof mounting, 48"x36". Bradley, ASI or Bobrick.(Model B-165-4836)

2.1.4 Grab Bars: 1 1/2" diameter satin finish stainless steel, one 36 inch at the rear and one 42 inch to the side of each handicapped toilet. Where ANSI 117.1 is applicable add one 24" Vertical Bar (Check Plans for locations). Br[illegible] or Bobrick.(Bradex 812)

2.1.5 Coat Hook : Bradley 233, ASI or Bobrick. (Model 917)

2.1.6 Baby Changing Station. Safe Strap Co. "Diaper-Depot [illegible] station," Model # 4304 - White. Furnished and installed by Publix.

2.1.7 Paper Tow[illegible]ispenser: Kimberly C[illegible]02. Furnish[illegible] installed by Publ[illegible]

2.1.8 Seat Cover D[illegible] Kimberly [illegible] Model [illegible]urnished and [illegible] by Publix.

2.1.9 [illegible] Napkin R[illegible]le. Rubbermaid [illegible]odel 6140 [illegible]n's or [illegible]rooms only [illegible]ished and in[illegible]d by Publ[illegible]

2.1.10 Toil[illegible]ue Dispenser: [illegible]erly Clark [illegible] Furnished and installed by P[illegible]

2.1.11 T[illegible] Receptacle: "Slim Jim" [illegible] Furnished by Publix.

2.1.12 Electric Hand Dryer-ASI Mod[illegible]0-Std. White. (Alternate for remodels only)

2.2. [illegible]hanical drawings for Water Closet, Flush Valve Assembly, Urinal, and La[illegible] specifications.

3. Exec[illegible]

3.1. Installation: Install all toilet accessories securely to walls indicated. Provide and install all required wall reinforcements and blocking as necessary to install accessories. Grab bars shall be mounted to reinforced walls to withstand a point load of 350 pounds at any point.

End of Section 10 28 13

Section 14 24 00

Hydraulic Elevators
V02212011

1. General

1.1. Scope of Work: Furnish all materials, labor, equipment and services necessary and incidental to complete installation of hydraulic elevators where indicated, implied on contract drawings, or as specified.

1.2. References

1.2.1 Comply with applicable building codes and elevator codes at the project site, including but not limited to the following:

1.2.1.1 ANSI A117.1, Buildings and Facilities, Providing Accessibility and Usability for Physically Handicapped People.

1.2.1.2 ADA/ADAAG, Americans with Disabilities Act/Americans with Disabilities Act Accessibility Guidelines

1.2.1.3 FACBC, Florida Accessibility Code for Building Construction for buildings in Florida.

1.2.1.4 ANSI/NFPA 70, National Electrical Code.

1.2.1.5 ANSI/NFPA 80, Fire Doors and Windows.

1.2.1.6 ASME/ANSI A17.1, Safety Code for Elevators and Escalators.

1.2.1.7 ANSI/UL 10B, Fire Tests of Door Assemblies.

1.2.1.8 All other local applicable codes.

1.3 Seismic Design: Provide equipment according to Seismic zone as required for local conditions.

1.4. Submittals:

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

1.4.2 Product Data: Submit manufacturer's product data for each system proposed for use. Include the following:

1.4.2.1 Signal and operating fixtures, operating panels and indicators.

1.4.2.2 Cab design, dimensions and layout.

1.4.2.3 Hoistway-door and frame details.

1.4.2.4 Electrical characteristics and connection requirements, electric controller, and emergency recovery unit.

1.4.2.5 Expected heat dissipation of elevator equipment in machine room (BTU).

1.4.3 Shop Drawings: Submit approval layout drawings. Include the following:

1.4.3.1 Car, guide rails, buffers and other components in hoistway.

1.4.3.2 Maximum rail bracket spacing.

1.4.3.3 Maximum loads imposed on guide rails requiring load transfer to building structure.

1.4.3.4 Loads on hoisting beams.

1.4.3.5 Clearances and travel of car.

1.4.3.6 Clear inside hoistway and pit dimensions.

1.4.3.7 Location and sizes of access doors, hoistway entrances and frames.

1.4.4 Operations and Maintenance Manuals: Provide manufacturer's standard operations and maintenance manual for each piece of equipment provided.

1.5. Quality Assurance

1.5.1 Manufacturer: Elevator shall be by one of the manufacturers named in this section. No exceptions are permitted.

1.5.2 Installer: Elevators shall be installed by the manufacturer. Coordinate with all trades.

1.5.3 Regulatory Requirements: Design, manufacture, and install in conformance with the standards listed above.

1.5.4 Permits and Inspections: Provide licenses, permits, inspections and tests needed to insure safe operation and to comply with all applicable regulations.

1.6. Delivery, Storage and Handling: Follow Manufacturer's instructions.

1.7. Warranty and service: One year unconditional Manufacturer's Warranty and service from receipt of certificate of occupancy.

2. Products

2.1. System Description: Performance Requirements for Elevator

2.1.1 Type: Twin direct acting hydraulic cylinder without well holes.

2.1.2 Number of Stops: Two (2).

2.1.3 Number of Openings: Two (2) at Front

2.1.4 Rise: reference drawings

2.1.5 Rated Capacity/Speed: 2500 lbs @100 fpm (Typical)
3500 lbs @ 100 fpm (for 61 prototype only)

2.1.6 Minimum Car Inside: 6'-8" wide by 4'-3" deep.

2.1.7 Inside Cab Height: 8'-0".

2.1.8 Height Under Ceiling: 7'-0"

2.1.9 Entrance Width & Type: Single-Slide Bi-Parting Door Pair 3' 6" x 7' 0".

2.1.10 Main Power Supply: 208 Volts + or - 5% of nominal. 3 Phase, with a separate equipment grounding conductor.

2.1.11 Lighting Power Supply: 120 Volts, 15 Amp, 60 Hz.

2.1.12 Stopping Accuracy: ±1/4" under any loading condition or direction of travel.

2.1.13 Door Opening Time: 3.5 seconds.

2.2. Simplex Collective Operation: Microprocessor-based controller, operation shall be automatic by means of the car and hall buttons. If all calls in the system have been answered, the car shall park at the last landing served.

2.3. Car Operating Features

2.3.1 Full Collective Operation.

2.3.2 Single Speed Fan.

2.3.3 On/Off Light Switch.

2.3.4 Remote elevator monitoring ready.

2.3.5 Car-Stall Protection.

2.3.6 Firefighters' Service Phase I and Phase II.

2.3.7 Top of Car Inspection.

2.3.8 Solid State Starting.

2.3.9 Independent Service.

2.3.10 Battery Operated Emergency Return Unit

2.4. Door Control Features:

2.4.1 Door Operator: Manufacturer's standard.

2.4.2 Door control shall open doors automatically when car arrives at a landing in response to a normal hall or car call.

2.4.3 Elevator doors shall be provided with a reopening device that shall stop and reopen the car door(s) and hoistway door(s) automatically should the door(s) become obstructed by an object or person.

2.4.4 Primary and Secondary Door Protection. Manufacturer's standard.

2.4.5 Door nudging operation shall occur if doors are prevented from closing.

2.5. Equipment: Machine Room Components

2.5.1 The hydraulic system shall be Manufacturer's standard compact design suitable for operation under the required pressure.

2.5.2 Manufacturer's standard microprocessor[illegible] shall be provided, including necessary starting switches [illegible]gether with all relays[illegible] switches, solid-state components and hardware [illegible]quired for operation, including [illegible] operation, as described herein. A three (3) phase overload device shall be provided to protect the motor against overloading.

2.5.3 Manufacturer's standard [illegible]nual lowering feature [illegible]mit lowering the elevator at slow speed in the event of power failure or [illegible]djusting purposes.

2.6. Equipment: Hoistway Compo[illegible]s

2.6.1 Plunger(s) and Cylinder[illegible] Each cylinder shall be Manu[illegible]er's standard constructed of steel pipe [illegible] sufficient thi[illegible]ss and suit[illegible] the operating pressure. The top of each [illegible]linder shall be equipped wi[illegible] head with a drip ring to collect any [illegible]seepage as w[illegible] as an internal guide ring and self-adjusting packing. Each plunger shall be [illegible]ucted of stainless steel tubing or pipe of proper diameter m[illegible]ined true a[illegible] with a fine polished finish. Each plunger shall be [illegible]ided with a stop ring electrically welded to it to prevent the plunger from leav[illegible] the cylinder. Each plunger and cylinder shall be installed plumb and shall op[illegible] freely with minimum fri[illegible]on.

2.6.2 Manufacturer's standard sealed cylinder prote[illegible] shall be installed. [illegible] shall provide a means to monitor the space between the PVC [illegible]inder wall and evacuate unwanted fluids, so as to prevent such fluids from [illegible]aining in contact with the cylinder.

2.6.3 Car Frame: Manufacturer's standard car frame shall be provided with adequate [illegible] support the platform and car enclosure. The buffer striking plate on the underside of the car-frame platform assembly must fully compress the spring buffer mounted in the pit before the plunger reaches its lower limit of travel.

2.6.4 Platform, Heavy Loading Type, Puncture Resistant: The car platform shall be arranged to accommodate one-piece loads weighing up to 25% of the rated capacity, such as wheeled food carts, stretchers, x-ray equipment, etc. The platform shall be recessed 5/16" for flooring by others.

2.6.5 Car Guide Rails: Manufacturer's standard.

2.6.6 Spring Buffer: Manufacturer's standard.

2.6.7 Wiring: Wiring for hoistway electrical devices included in scope of the elevator system, hall panels, pit emergency stop switch, and the traveling cable for the elevator car.

2.6.8 Pit Ladder. Manufacturer's standard.

2.7. Cab Enclosure

2.7.1 Cab walls: Vertical non-removable panels, laminated front and back with plastic laminate.

2.7.2 Car Front Finish: Satin stainless steel.

2.7.3 Car Door Finish: Satin stainless steel.

2.7.4 Car top: Wood material clad on both sides with a natural finish aluminum panel.

2.7.5 Suspended ceiling: Aluminum eggcrate diffusers set in frame of extruded aluminum with fluorescent lighting fixtures.

2.7.6 Emergency Car Lighting: An emergency power unit employing a 12 volt, sealed rechargeable battery and totally static circuits shall be provided to illuminate the elevator car and provide current to the alarm bell in the event of building power failure.

2.7.7 Exhaust Fan: An exhaust fan shall be mounted on the car top.

2.7.8 Utility Outlet: 125V 15 amp. with ground-fault circuit-interrupter protection shall be furnished in the cab.

2.7.9 Handrail: Satin finish, 1/2" x 1-1/2", across the rear of the car enclosure.

2.7.10 Threshold: Aluminum.

2.7.11 Moving Pads. Manufacturer's standard protective pad hooks and quilted fire retardant protective pads.

2.8. Equipment: Hoistway Entrances

2.8.1 Frames. Manufacturer's standard.

2.8.2 Doors: Manufacturer's standard entrance doors

2.8.3 Fire Rating: Entrance and doors shall be UL fire rated for 1-1/2 hour.

2.8.4 Entrance Finish: Satin stainless steel.

2.8.5 Entrance Markings: Entrance jambs shall be marked with 4" x 4" plates having raised floor markings with Braille adjacent. Markings shall be provided on both sides of the entrance.

2.9. Equipment: Signal Devices and Fixtures

2.9.1 Car-Operating Panel: Manufacturer's standard panel shall be provided containing all push buttons, key switches, and message indicators for elevator operation. Raised markings and Braille markings shall be provided for each push-button.

2.9.2 Panel shall contain a bank of illuminated buttons marked to correspond to the landings served, an emergency call button, door open and door close buttons, and switches for lights, inspection and the exhaust fan. Emergency call button shall be connected to a bell that serves as an emergency signal. All buttons shall have both raised and Braille markings.

2.9.3 Car Position Indicator: Manufacturer's standard.

2.9.4 Telephone Cabinet with Certificate Frame: Manufacturer's standard telephone compartment with necessary wires for the telephone shall be included in the compartment and connected to the car traveling cable.

2.9.5 Manufacturer's standard telephone designed in accordance with ADAAG requirements shall be provided

2.9.6 Car Lantern and Chime: Manufacturer's standard.

2.9.7 Hall Fixtures: Manufacturer's standard.

2.9.8 Fixture Finish: Satin stainless steel.

2.9.9 Landing Passing Signal. A chime bell shall sound in the car to tell a passenger that the car is either stopping at or passing a floor served by the elevator.

2.10. Acceptable Manufacturers (no substitutions allowed):

Otis Elevator Company
Schindler Elevator Company

3. Execution

3.1. Preparation:

3.1.1 Examine condition of substrates, supports, and other elements to which this work is to be attached or operated within. Do not proceed with work until unsatisfactory conditions are corrected.

3.1.2 Field measure work-in-place to ascertain that all needed clearances and support provisions are properly sized and located for installation of equipment and services associated with the elevator system.

3.2. Installation:

3.2.1 Elevator manufacturer shall install all systems utilizing his own properly trained personnel.

3.2.2 Follow Manufacturer's installation instructions, shop drawings, and other literature exactly.

3.3. Demonstration:

3.3.1 At Substantial Completion inspection, make a final check of each elevator operation with the Owner or Owner's representative present. Determine that control systems and operating devices are functioning properly.

3.3.2 If remediation is required, correct all operational deficiencies before turning over to Owner.

End of Section 14 24 00

Section 21 00 00

Fire Suppression
V04162013

1. General

1.1. Submit LOIs in accordance with Section 01 33 00 Submittal Procedures.

1.2. System Description:

1.2.1 Construction Documents indicate the Design of a Fire Sprinkler System that complies with the intent of Publix. Information contained in these Documents shall be the only basis for Bid.

1.2.2 Publix is the approver of all systems.

1.2.3 Design Changes:

1.2.3.1 It is recognized that there are several ways to obtain the protection intended by Publix Super Markets. If changes can be made to the Design to achieve cost or time savings, these shall be submitted to Publix Super Markets for approval before requesting approval by the Authority Having Jurisdiction.

1.2.3.2 Work shall not begin on the assumption of approvability of changes to the Design.

1.2.3.3 If Publix approves design changes, submit Change Order request for inclusion in Contract.

1.3. Scope of Work:

1.3.1 Provide complete overhead sprinkler system as shown on the Drawings and described herein.

1.3.2 Make connection to the underground supply at the "[illegible]vice" as shown on the Drawings.

1.3.3 Provide back flow preventer and OS&[illegible]lve assembly at loc[illegible]n in the Site Documents.

1.3.4 Locate Fire Department C[illegible]ction as di[illegible] the Authority Having Jurisdiction.

1.3.5 Provide Dry Pipe System [illegible]xterior heads at locat[illegible] of F[illegible]da State Highway 60, with under-ca[illegible]y heads as indicated, and [illegible]ds as re[illegible]

1.3.6 Pro[illegible] connections to s[illegible]ms provided under separate cont[illegible] by Owner.

1.3.7 Provide ot[illegible]nd app[illegible]us as needed for security of components, ease of acce[illegible] by [illegible]ers a[illegible] Officials, and as required for a complete, integrated s[illegible]m.

1.4. R[illegible] by O[illegible]s:

1.4.1 C[illegible]ains:

1.4.1.1 [illegible]ound fire sprinkler water supply system shall be as approved by [illegible] Publix Super Markets Engineer and the Authority Having Jurisdiction, including an acceptable outlet at a "Point of Connection" within 5 [illegible] of the building, lateral from the fire main or backflow preventer, furnished and installed by outside utility Subcontractor.

1.4.1.2 All such Fire Sprinkler work shall be accomplished by a Fire Sprinkler Contractor duly registered in the state of the work, and qualified by experience in work of similar scope to that indicated in the Contract Documents. Such work shall include, but not be limited to, connections to mains, underground supplies, backflow preventers, valves, fittings and other appurtenances required to connect the water supply to the fire sprinkler system.

1.4.2 Central station alarm system, complete as shown on Drawings, furnished and installed under separate contract.

1.5. Design Requirements

1.5.1 Minimum requirements for the design, manufacture, testing and methods of installing all materials, apparatus, and equipment shall conform to the requirements of NFPA Standards 24 and 13 and, in some cases, that of FM Global.

1.5.2 Conform to the requirements of the local building code and the Authority Having Jurisdiction. If conflicts occur between the requirements of the above mentioned codes and authorities, the most stringent shall govern.

1.5.3 Obtain a hydrant flow test, performed within the previous 6 month time period, and ensure its acceptability by all Authorities Having Jurisdiction prior to basing calculations and proposal on the results of the test.

1.5.4 Provide inspector's test connection at most remote point from riser. Provide minimum 1 per riser.

1.5.5 Spacing of sprinklers shall not exceed 130 sq. ft. per sprinkler, without written permission from Publix.

1.5.6 Sprinkler location: All sprinklers shall be located as shown on Engineer's Drawings, and as required by codes, including vestibules and canopy attic areas.

1.5.7 Storage Areas; Ordinary Hazard Group II: Provide a hydraulically designed wet system to provide 0.30 gpm/sq. ft. including the most remote 2000 sq. ft. Spacing of sprinklers shall not exceed 100 sq. ft. per sprinkler.

1.5.8 Sales Areas, Work Areas; Ordinary Hazard Group II: Provide a hydraulically designed wet system to provide 0.18 gpm/sqft. for all areas including the most remote 2500 sq. ft.

1.5.9 Hydraulic calculations shall include a total allowance of 250 gpm for outside and inside hose streams.

1.6. Shop Drawings, Calculations and Approvals

1.6.1 Do not begin work until the shop drawings and calculations have been approved by Publix Super Markets and by the Authority Having Jurisdiction.

1.6.2 Any proposed value engineering changes must be submitted to the Publix Engineer prior to submitting any shop drawing and calculations.

1.6.3 Submit shop drawings and calculations simultaneously to the Publix Super Markets Engineer and the Authority Having Jurisdiction for approval, and to Marsh Consulting for review.

1.6.4 Upon receiving approval of the Authority Having Jurisdiction, submit evidence of this approval to the Publix Super Markets Engineer.

1.7. Quality:

1.7.1 Subcontractor:

1.7.1.1 The Fire Sprinkler Subcontractor shall be a reputable firm regularly engaged in this type of work, employing skilled workmen, and with proper equipment. Work shall be performed by a firm licensed as a Class I or II Fire Sprinkler Contractor.

1.7.1.2 Upon request, Subcontractor shall show evidence of at least two similar jobs, of comparable size and character, installed and operating within the two years prior to bid opening.

1.7.1.3 Publix reserves the right to refuse any Subcontractor with or without disclosing cause.

1.7.2 Personnel:

1.7.2.1 Employ an experienced Superintendent to oversee all operation.

1.7.2.2 Work shall not proceed without adequate supervision present at all times. Foreman shall be a Journeyman Sprinkler Fitter.

1.7.2.3 Work shall be performed by workers certified in their trade as journeymen, and apprentices in accordance with regulations of the governing authority or customary practice. Utilize workers with skills in proportion to complexity of tasks required.

1.7.2.4 Publix reserves the right to refuse assignment of workers to Publix work with or without disclosing cause.

1.7.3 Quality Standards

1.7.3.1 Work shall be accomplished to ensure leak-proof installation.

1.7.3.2 Work will be judged by Publix in comparison to work of similar types. Substandard construction as judged by Publix Representative will not be accepted.

1.7.3.3 Neatness counts. Make all joints, connections, unions, etc. with proper care to insure that tight connections are made without excess material, well secured to supports.

1.7.3.4 Install piping with runs straight, accurately formed radii at bends, and adequate supports.

1.8 Pressure Test:

1.8.1 Perform testing as required by NFPA 13 and Authorities Having Jurisdiction. Test results shall be certified by these agencies.

1.8.2 As a minimum, test all piping and equipment under hydrostatic pressure of 200 pounds per square inch for a 2 hour continuous period.

1.8.3 Correct all defects revealed by test.

1.8.4 Retest as required until system is leak free under test conditions.

2. Products

2.1. Heads

2.1.1 All sprinkler heads shall be UL listed, Factory Mutual approved, and the product of one manufacturer.

2.1.2 Approved manufacturer's:

Viking
Victaulic
Tyco
Reliable
Globe

2.1.3 Sprinkler heads shall be **standard response** thermosensitive glass bulb style, standard pressure rated to 175 PSI.

2.1.4 Sprinklers with 1/2" orifices shall have 1/2" NPT connections, 17/32" orifices shall have 3/4" NPT connections, dry pendant heads shall have 1" NPT connections.

2.1.5 Areas with suspended ceilings: Use chrome recessed or semi-recessed type sprinklers rated at 155 degrees F. unless otherwise noted on the plan.

2.1.6 In areas with exposed structure:

2.1.6.1 Sales/Customer Areas: Use brass upright type sprinklers rated at 155 degrees F. Where suspended ceiling occurs use chrome pendant type sprinklers rated at 155 degrees F. Provide chrome two-piece escutcheons.

2.1.6.2 Storage, and other areas not used by customers: Use brass upright type, rated at 155 degrees F.

2.1.7 Cooler/Freezer Areas: Provide 175 degree F dry pendant sprinklers. Seal pipe penetration and insulate pipe to 1'-0" above top of cooler/freezer insulation panel. Minimum barrel length shall be 18".

2.1.7.1 Approved Manufacturers: Viking & Reliable

2.2. Provide spare sprinkler heads and wrenches. Provide number of cabinet[illegible] spare sprinkler heads in locations required by NFPA 13. Minimum cabin[illegible] shall be for 12 heads.

2.3. Dry Systems: Where required by local authorities, the system shall be [illegible]lled by a separate wall or post indicator valve and dry pipe valve. Valves are to b[illegible]ped with an air compressor, low air trouble alarm, and supervisory switches. [illegible] valves for either shall be located 4'-6" ab[illegible] finished floor.

2.3.1 Air compressors for dry sys[illegible] be direct drive, electric motor dr[illegible] cooled, with thermal overload protection. Units shall be fully automatic, [illegible] UL listed pressure switch, check va[illegible] and safety valve, oil-less piston compressor[illegible] permanently lubric[illegible]d bearings. Include air filters and riser [illegible] construction dra[illegible]gs for power requirements.

2.3.1.1 Appr[illegible]facturer: Ge[illegible]al Air Products.

2.4. [illegible] Flow Devices: Prov[illegible] Mutua[illegible]proved back flow de[illegible] by local codes. [illegible] cord[illegible] Florida Route 60, se[illegible]bly in [illegible]low-ground co[illegible] means of freeze protection.

2.5. Inspector[illegible]nection [illegible] be pipe[illegible]vel on the inside of the building, then stubbe[illegible] wa[illegible] and piped to gr[illegible] conform to requirements of NFPA 13 and Factory [illegible]

2.6. Riser assembly shall [illegible]m valve with DPDT water flow switch, water motor alarm, electrically supervis[illegible] valve, main drain and pressure gauges. Water flow switch and tamper switch. Riser [illegible]sembly shall be located in rear of store. All risers shall be interior risers. System control valve shall be a wall or post indicator type.

Provide pipe sleeves for all pipes passing through concrete floors and for all pipes passing through concrete and masonry walls.

Provide escutcheons for all exposed pipes passing through floors and walls. Escutcheons shall be chrome plated steel or stainless steel, two-piece hinged, fastened with set screw, size to suit. Where subject to corrosion (outside) use stainless steel only.

2.9. Tamper Switches: Provide Systems Sensor Supervisory switch 0SY2 for outside screw and yoke gate valves, or PIBV2 for post indicator gate valves, to be wired by others.

2.10. All fittings shall be U.L. and Factory Mutual approved and stamped and shall conform to the requirements of NFPA. #13 and the Factory Mutual Approval Guide, except that no "slip" type fittings are to be used.

2.11. Piping:

2.11.1 Piping shall conform to the requirements of NFPA. #13 and the Factory Mutual Approval Guide. Piping may be grooved, threaded and/or welded if all components and methods are Factory Mutual approved.

2.11.2 Underground Service Piping:

2.11.2.1 Pipe: AWWA C900, PVC, AWWA C151, Ductile Iron Pipe

2.11.2.2 Fittings and Joints: AWWA C110 & C115, Ductile Iron Pipe ANSI B16.1 Cast Iron Pipe, for sizes 3"-48".

2.11.3 Above ground Service Piping:

2.11.3.1 Sprinkler Piping: ASTM-A795 and ASTM A53 for black and hot dipped, zinc coated (galvanized) welded and seamless steel pipe. ASTM A135 for electric resistance welded steel pipe.

2.11.3.1.1 Exterior Wet/Dry Sprinkler Piping & Fittings: Galvanized steel.

2.11.3.1.2 Interior Wet Sprinkler Piping & Fittings: Black steel.

2.11.3.1.3 Interior Dry Sprinkler Piping & Fittings: Galvanized steel.

2.11.3.2 Pipe sizes 1"-2" shall be Schedule 40.

2.11.3.3 Pipe sizes 2 1/2" - 6" shall be Schedule 10.

2.11.4 Fire Department Connection Piping:

2.11.4.1 Interior: Same as Interior Sprinkler Piping above.

2.11.4.2 Exterior: Same as Exterior Service Piping above. Where stubbed-up for connections above grade, use standard weight galvanized steel pipe with galvanized malleable iron screw fittings.

2.11.5 Drain Piping: Schedule 40 galvanized steel screwed pipe with cast iron drainage pattern screw fittings.

2.12. Valves:

2.12.1 Drain valves, test valves, and control valves shall be fitted with FM approved enameled signs indicating their use.

2.12.2 Gate Valves

2.12.2.1 Non Rising Stem: 4" - 12", iron body, 175 lb. service rating, flanged connections. UL listed, Factory Mutual approved. Bolted bonnet indicator, bolt patter, solid bronze or resilient wedge.

Nibco F609

2.12.2.2 Outside Screw and Yoke: 4" - 12" iron body 200 lb. service rating, flanged connections. UL listed, Factory Mutual approved. Epoxy coated interior/exterior. Pregrooved stem for supervisory switch, resilient wedge.

Nibco F607RW

2.12.2.3 Other approved manufacturer's:

Mueller
Kennedy
Stockham
Watts

2.12.3 Alarm Check Valves: 3" - 8" iron body. 175 lb. service rating, flanged or grooved connection. UL listed, Factory Mutual approved. Vertical mounted with complete trim for variable pressure. Bolted hand hole cover. EPDM rubber clapper seal.

2.12.3.1 Wet Alarm Check Valves:

Central Model F or G
Viking Model J-1
Reliable Model E

2.12.3.2 Retard Chambers:

Central Model F
Viking C-1
Reliable Model E-1

2.12.3.3 Dry Alarm Check Valves:

Central Model C
Viking F-1
Victaulic Series 756 Firelock

2.12.3.4 Accelerators and Exhausters:

Central Model A
Viking Model E-1
Victaulic Series 746

2.12.4 Double Check Detector Assembly: Iron body, 175 lb. service rating, UL listed Factory Mutual approved. Epoxy coated interior/exterior. Ductile iron or stainless steel clapper, EFDM rubber seal. Resilient wedge outside screw and yoke gate valves.

FEBCO 856, Watts 757DCDA - OSY or equal as approved by Publix Engineer.

2.12.5 Indicator Posts: Iron body. UL listed, factory Mutual approved for use with non-rising stem gate valves:

NIBCO NIP1AJ upright post or NIP2AJ wall post.
Grinnell
Kennedy
Mueller
Stockham

2.12.6 Drain Valves: Angle or globe type as required.

Jenkins 108-A angle or 106A globe or equal as approved by Publix Engineer.

2.12.7 Check Valves: Factory Mutual approved swing check valves installed horizontally, iron body, bronze mounted, 175 pound service rating.

2.13. Riser and Fire Department Connection

2.13.1 Riser: Provide riser where indicated on the drawings. Riser shall have alarm valve, complete with valve trimmings, gauges, and all required accessory equipment. Provide approved electric flow switch where indicated on the drawings.

2.13.2 Inspector's Test Connection: 1" inspectors test valve, drain valve and pipe extending to drain indicated on drawings. System shall also be connected into the central fire alarm system.

2.13.3 Fire Department Connections: Factory Mutual approved flush type Fire Department connections 4" F.I.P.T. outlet and two 2-1/2" NSHT inlets with lettered nameplate. All exposed parts shall be rough brass and polished trim; plate shall be lettered "Automatic Sprinkler", "Fire Department Connections".

2.14. Gauges

2.14.1 Pressure gauges shall be installed as required by code, Factory Mutual approved 4-1/2" dial type, and shall have a maximum limit of not less than twice the normal working pressure at the point where installed.

2.14.2 Control valves, drain valves, check valves, identification tags and drain piping shall be approved for fire service and shall conform to the requirements set forth in NFPA. #13.

3. Execution

3.1. General

3.1.1 Architectural and Structural Drawings [illegible] be used for buil[illegible]struction, dimensions and specific location[illegible]

3.1.2 Perform all cutting and fitting required f[illegible] of this Section in [illegible] construction of the building, and in areas o[illegible] buildings and s[illegible] as required by alterations and connections to e[illegible]

3.1.3 All pat[illegible] of new an[illegible] buildings shall [illegible] the General Contractor un[illegible]ions of Spe[illegible]ns covering those materials.

3.1.4 [illegible]ontractor shall perform all e[illegible] and backfi[illegible] for services, [illegible]nd outside the building. C[illegible] curbs, walks, [illegible] paving re[illegible] by the excavation shall be [illegible] Subcontracto[illegible] rock shall be exc[illegible] inches below the laying [illegible] and the tr[illegible] shall be backfilled with [illegible]nches deep. Over excav[illegible] shall be added in 12 inch layers and mechan[illegible] compacted. Flooding [illegible]ddling not permitted. All piping which will be u[illegible]lks, planters, are[illegible] parking lots, concrete or asphalt shall be mechanica[illegible]pacted in 12 i[illegible] layers. Pipe under driveways shall have a minimum co[illegible] ft.

3.1.5 Verify all field [illegible] and locations of equipment and fixtures within the lay[illegible] as establ[illegible] by the General Contractor to insure close, neat fit, with other trades work.

3.1.6 N[illegible]derground piping shall be covered until inspected by Publix' [illegible]presentative and Authority Having Jurisdiction.

3.1.7 Where the work is dependent upon work of other trades or work already in place for its proper installation, examine such other work and see that is in the proper condition and state of completion before continuing the installation.

3.1.8 Include the services of an experienced Superintendent, who shall be constantly in charge of the work, together with qualified journeymen required to properly unload, install, connect, adjust, start and operate and test the work involved, including equipment and materials furnished by others and by Owner. All work shall be executed in a first class workmanlike manner. Workmanship that, in the opinion of Publix, is substandard or shoddy, shall be removed and replaced with acceptable work at no cost to Publix.

3.1.9 Follow Drawings in laying out work and check Drawings of other trades to verify spaces in which work will be installed. Coordinate work with other trades. Maintain maximum headroom and space conditions at all points. Where headroom or space conditions appear inadequate, notify Architect before proceeding with installation.

3.2. Area of horizontal runs by trades: See Section 01 11 00 Summary of Work.

3.3. Conceal all piping above suspended ceiling where practical.

3.4. If directed by Architect, the Subcontractor shall, without extra charge, make reasonable modifications in the layout as needed to prevent conflict with work of other trades or for proper execution of the work.

3.5. Provide qualified installers. Install materials, apparatus and equipment in neat, workmanlike manner.

3.6. Cooperate with the work of other trades to prevent conflict or interference and to aid rapid completion of the overall project

3.7. Protect materials, apparatus and equipment from damage, moisture, dirt, debris and work of other trades. Do not install damaged materials and equipment; remove them from the site.

3.8. Install drops for sprinkler heads in areas with finished ceiling. Sprinkler heads in tile ceilings shall be located within 1 1/2" of the center of tile. Coordinate the exact location of the ceiling grid with the ceiling contractor.

3.9. Examine all work of others. If any conditions exist which will prevent satisfactory installation of materials or equipment the Architect shall be notified in writing. Starting of work without notification indicates acceptance, and any or all changes required will be at Contractor's expense.

3.10. Keep the job site free from accumulations of waste materials and rubbish. Leave the job site and work in clean, orderly and acceptable condition. Clean all materials and equipment of dirt, dust, paint, spots and stains, soil marks and other foreign matter.

3.11. The inside sprinkler piping shall be installed in such a manner that there will be no leakage.

3.12. There shall be no on site welding of sprinkler piping.

3.13. Install, test and flush the fire protection underground from the "Point of Service" to the building in accordance with NFPA. 24.

3.14. Requirements for Final Acceptance and Payment:

3.14.1 The entire system shall be tested under hydrostatic pressure. This pressure shall be 50 psi greater than pressure in the main, but in no case less than 200 psi. The test pressure shall be maintained for two (2) hours. Properly executed test certificate shall be sent to Factory Mutual Engineering Association and Publix' Representative upon Completion.

3.14.2 Furnish Publix' Representative with a complete set of all manufacturer's warranties and instructions, and with two sets of as-built drawings.

3.14.3 Obtain Final Inspection and test required by the authorities having jurisdiction for their acceptance of the system; provide adequate advance notice to Publix' representative of such inspection and test; furnish Publix' Representative with evidence of acceptance of the system by the local authority having jurisdiction.

3.14.4 Contractor's Material and Test Certificates for Underground Piping/ Aboveground Piping shall be completed on the appropriate NFPA 13 form and submitted to the Owner and the Authority Having Jurisdiction.

3.14.5 The system, upon completion and testing, shall be inspected and accepted by the Owner and the Authority Having Jurisdiction.

3.15. Guarantee

3.15.1 All equipment shall be tested, adjusted and placed in proper operating condition by the subcontractor. Both the Contractor and the Engineer shall advise the Architect in writing that the systems are installed according to the Specifications and Drawings and are operating satisfactorily. The Owner shall receive written warranty covering all defects in workmanship and material for a period of one (1) year from the date of Final Acceptance.

3.15.2 All defects within this period shall be repaired without cost to the Owner. This shall include adjustments, and all regular and preventative maintenance.

3.15.3 The Owner reserves the right to make emergency repairs as required to keep equipment in operation without voiding the Contractor's warranty.

3.16. Final Inspection

3.16.1 All of the following items shall be completed prior to final inspections. No exceptions will be made and no final payment will be made until all items are completed.

3.17. Cleaning Equipment and Premises:

3.17.1 Thoroughly clean all exposed parts of the apparatus and equipment. Exposed parts which are to be painted shall be thoroughly cleaned of cement, plaster, and other material and all oil and grease spots shall be removed. Repaint or touch up as required to make look like new. Such surfaces shall be carefully wiped and all cracks and corners scraped out.

3.17.2 Exposed metal work shall be carefully brushed down with steel brushes to remove rust and other spots and touched up with primer.

3.18. Identification, Operating Instructions and Service Manual:

3.18.1 Provide a permanent non-corrosive metallic placard indicating hydraulic design and demand information, securely affixed to riser, one required each riser.

3.18.2 Manual:

3.18.2.1 Provide two (2) neatly bound copies of maintenance and instructions book, parts lists pertaining to all equipment furnished. Submit to the Architect for approval.

3.18.2.2 Each section shall be indexed and include parts lists, instruction books, suppliers' phone numbers and addresses, and individual equipment guarantees all in separate sections.

End of Section 21 00 00

Section 22 40 00

Plumbing
V02202012

1. General

1.1. Summary

1.1.1 Provide all materials and equipment and perform all labor required to install plumbing complete as indicated, as required by code, and as specified herein. All sizes, etc. are Publix minimum and if local code requirements are higher, the work shall be bid and installed accordingly.

1.1.1.1 Obtain and pay for all permits, bonds, inspection.

1.1.1.2 Provide 2-1/2" water service line, with water meter and 2-1/2" backflow preventer.

1.1.1.3 Provide hot and cold water mains and distribution piping, all overhead and concealed except main water supply into building and where indicated on the Drawings. No PVC pipe allowed above floor slab, (except plumbing waste piping, unless not code approved).

1.1.1.4 Provide a system of soil and waste drains, vents, and connections to all sewer, and water mains and all fixtures.

1.1.1.5 Plumbing Fixtures: Provide and adjust. except as herein specified.

1.1.1.6 Provide Grease Interceptors as specified and as required by local codes.

1.1.1.7 Provide all piping hanging and hangers.

1.1.1.8 Provide gas piping and all indirect drains required for equipment furnished in other sections, and by Owner, except provide indicated drains (floor drains, hub drains, floor sinks[illegible] for refrigerated cases, walk-in coolers, and freezers.

1.1.1.9 Provide rough-in plumbing for fix[illegible]es indicated [illegible]urnished by Publix or others, and make requi[illegible] connec[illegible] Include uncrating equipment, moving into place, an[illegible]stall[illegible] complete.

1.1.1.10 Coordinate ph[illegible]work with a[illegible]er trades including Refrigeratio[illegible] work.

1.1.1.11 Prov[illegible]all [illegible]her mate[illegible]d servic[illegible] complete wo[illegible]tallation des[illegible]in Contra[illegible]

1.1.2 [illegible]ll apparatus s[illegible] installed at ex[illegible]ght and locations as shown on the [illegible]chitectural Dra[illegible] or if not show[illegible]eights and locations determined [illegible]plicable code[illegible]ws.

1.1.3 Pe[illegible] all excavation[illegible]ackfill req[illegible]ed for services, and for all plumbing and [illegible]nside and out[illegible] building. Cutting of curbs, walks, concrete and paving [illegible]red for excav[illegible] shall be done by appropriate trade.

1.1.4 All store [illegible]coolers, and freezers will be furnished and set in place by Publix. Th[illegible]geration Contractor shall make all condensate waste connection[illegible]quired to Plumbing Contractors stub ups. Check equipment [illegible]awings against Drawings in order to verify exact locations. Provide gas [illegible]ing as indicated.

1.2. [illegible]nitions: Explanation and Precedence of Documents:

1.2.1 For purposes of clarity and legibility, Plumbing Drawings are essentially diagrammatic and, although size and location of equipment are drawn to scale wherever possible, Contractor shall make use of all Contract Documents.

1.2.2 The Drawings indicate size, connection points and routes of pipe. It is not intended, however, that all offsets, rises and drops are shown. Install piping as required to fit structure, avoid obstructions, and retain clearance, headroom, openings and passageways.

1.2.3 Carefully examine all existing conditions, existing piping and premises and compare the Drawings with the existing conditions. Submittal of bid indicates that the Contractor has examined the site and Drawings and has included all required work in his bid. No allowances will be made for any error resulting from Contractor's failure to visit Job Sites and to review Drawings.

1.2.4 Conflicts, discrepancies, interferences and omissions in documents shall be brought to the attention of the Publix Engineer for clarification prior to commencement of work.

1.3. Submittals:

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

1.3.2 Within 30 days of Contract Commencement (Authorization to Proceed), submit for Publix' Architect's approval.

Fixtures and trim with cuts including rough-in dimensions.
Equipment (water heaters, expansion tanks, other items)
Drains and cleanouts (floor and wall)
Valves, stops, hose bibbs
Miscellaneous
Roof flashing
Piping, piping diagrams
Other items required to complete the Work

1.3.3 Submit two identical bound copies of all items. Arrange categories in order listed above.

1.3.4 All cuts for the above shall have rough-in dimensions, connection sizes, and any special installation requirements. In addition, furnish motor horsepower voltage and phase for all equipment.

1.3.5 Project Record Drawings: Comply with Section 01 78 39.

1.3.6 Do not order materials or proceed with work until all submittals have been reviewed, and approved.

1.3.7 Confirm electrical and other requirements with other contractors.

1.4. Quality:

1.4.1 Subcontractor:

1.4.1.1 The Plumbing Subcontractor shall be a reputable firm regularly engaged in this type of work, employing skilled workmen and with proper equipment.

1.4.1.2 Upon request Subcontractor shall show evidence of at least two similar jobs, of comparable size and character, installed and operating within the previous two years prior to bid opening.

1.4.1.3 Publix reserves the right to refuse any Subcontractor with or without disclosing cause.

1.4.2 Personnel:

1.4.2.1 Employ an experienced Superintendent to oversee all operation.

1.4.2.2 Work shall not proceed without adequate supervision present at all times.

1.4.2.3 Work shall be accomplished by workers certified in their trade as masters, journeymen, and apprentices in accordance with regulations of the governing authority or customary practice. Utilize workers with skills in proportion to complexity of tasks required.

1.4.2.4 Publix reserves the right to refuse assignment of workers to Publix work with or without disclosing cause.

1.4.3 Quality Standards

1.4.3.1 Work shall be accomplished to ensure leak-proof installation.

1.4.3.2 Work will be judged by Publix in comparison to work of similar types. Substandard construction as judged by Publix Representative will not be accepted.

1.4.3.3 Neatness counts. Make all joints, connections, unions, etc. with proper care to insure that tight connections are made without excess material, well secured to supports.

1.4.3.4 Install piping with runs straight, accurately formed radiuses at bends, and adequate supports.

1.4.4 Regulations: Comply with applicable provisions of the following codes (latest version adopted by governing agencies):

State Sanitary Code
Local Building Code
ASME Code for Unfired Pressure Vessels
International Plumbing Code
Florida State Plumbing Code
OSHA - for construction
Other applicable laws and regulations.

1.4.5 Coordination: Work shall be accomplished along with the work of other trades. Cooperate with others to benefit the job as a whole.

1.4.6 Participate in the Pre-Construction Conference

1.5. Sequencing

1.5.1 Notify General Contractor, or any others, of all required chases, sleeves and openings required so that the work can be accomplished without delay. Provide necessary sleeves, etc., to be installed. Otherwise, Plumber shall pay for appropriate trades to perform cutting and patching.

1.5.2 Joists, girders, beams, columns or reinforcing steel shall not be cut.

1.5.3 Where construction necessitates the routing of piping through structural members, bearing or under footings, permission to make such installation shall first be obtained from the Publix Field Representative

1.6 Temporary Operation:

1.6.1 The Owner may require operation of parts or all of the installation prior to Final Acceptance

1.6.2 Cost of utilities for such operation shall be paid by the Contractor. This operation does not constitute acceptance of the Contractor's work.

1.6.3 All gas and water used for construction shall be paid for by the General Contractor. furnish and install all temporary water piping required for construction purposes and remove piping when use is no longer required. Restore site and piping to original conditions.

1.7 The Owner reserves the right to make emergency repairs as required to keep equipment in operation without voiding the Contractor's guarantee nor relieving the Contractor of his responsibilities during the guarantee period.

1.8. Operating Instructions and Service Manual:

1.8.1 Provide two (2) neatly bound copies of maintenance and instructions book, parts lists pertaining to all equipment furnished.

1.8.2 Each section shall be indexed and include parts lists, instruction books, suppliers' phone numbers and addresses, and individual equipment guarantees all in separate sections.

1.8.3 Representatives of the Owner shall be instructed by the Contractor as to complete care and operation of the plumbing system. Inform the Architect in writing as to the persons who received the instructions and the date that this

Publix.
SUPER MARKETS

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ARCHITECT - FL REG.[illegible]
GA. REG. [illegible]
SC. REG. 747[illegible]
AL. REG. 6234
TN. REG. 1034[illegible]
NC. REG. 1243[illegible]
VA. REG. 0401[illegible]097

JOHN [illegible] PE
CIVIL/STRUCTURAL [illegible]5277
GA. REG. 020251
SC. REG. 16340
AL. REG. 20382
TN. REG. 101507

PAUL C. HARMAN, PE
STRUCTURAL - FL. REG. 51959
GA. REG. 27740
SC. REG. 21754
AL. REG. 24905
TN. REG. 107882
NC. REG. 39673
VA. REG. 0402055022

JOHN J. CARAMALIS, PE
MECHANICAL - FL. REG. 43889
GA. REG. 021246
SC. REG. 16521
AL. REG. 20581
TN. REG. 108507
VA. REG. 0402055478

ANTHONY CLEMENTI, PE
MECHANICAL - FL. REG. 54781
GA. REG. 31882
SC. REG. 25591
AL. REG. 28469
TN. REG. 111382
NC. REG. 039664
VA. REG. 0402056137

RAYMOND J. SIRIANNI, PE
ELECTRICAL - FL. REG. 54085
GA. REG. 025636
SC. REG. 19743
AL. REG. 23065
TN. REG. 108038
NC. REG. 039963
VA. REG. 0402055379

NORMAN MEIER, PE
ELECTRICAL - FL. REG. 59422
GA. REG. 31492
SC. REG. 25290
AL. REG. 28079

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