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SECTION 01300

SUBMITTALS

PART 1 - GENERAL

1.01 SUBMITTALS

A. Shop drawings shall be required for:

1. Division 1 - Project Sign
2. Any others as called for in the plans, specifications or by the Engineer.

B. Other required submittals shall include:

1. Piping Layout.
2. Manufacturer's Data.
3. Certificates of Warranty.
4. Any item listed in the "Submittal List".
5. Any others as called for in the plans, specifications, or by the Engineer.

1.02 BIDDER'S SPECIAL RESPONSIBILITY FOR COORDINATING CONTRACTUAL WORK AND SUBMITTALS:

A. The Contractor is responsible for the coordination of all contractual work and submittals.

B. The Contractor shall have a rubber stamp made up in the following format:

CONTRACTOR NAME

PROJECT: _____

JOB NO: _____

THIS SUBMITTAL HAS BEEN CHECKED BY THIS GENERAL CONTRACTOR. IT IS CERTIFIED CORRECT, COMPLETE, AND IN COMPLIANCE WITH CONTRACT DRAWINGS AND SPECIFICATIONS. ALL AFFECTED CONTRACTORS AND SUPPLIERS ARE AWARE OF, AND WILL INTEGRATE THIS SUBMITTAL INTO THEIR OWN WORK.

DATE RECEIVED _____

SPECIFICATION SECTION _____

SPECIFICATION PARAGRAPH _____

DRAWING NUMBER _____
SUBCONTRACTOR NAME _____
SUPPLIER NAME _____
MANUFACTURER NAME _____

CERTIFIED BY: _____

- C. This stamp, "filled in", should appear on the title sheet of each shop drawing, on a cover sheet of submittals in an 8-1/2" x 11" format, or on one face of a cardstock tag (min. 3" x 6") tied to each sample. The tag on the samples should state what the sample is so that, if the tag is accidentally separated from the sample, it can be matched up again. The back of this tag will be used by the Engineer for his receipt, review, and log stamp and for any comments that relate to the sample.
- D. All submittals for material, equipment, and shop drawings listed in the contract documents, including dimensioned plumbing shop drawings, shall be required and shall be reviewed by the Engineer, prior to any ordering of materials and equipment.
- E. Unless otherwise noted, the Contractor shall submit to the Engineer for his review eight copies of all shop drawings, piping layout, and/or catalog cuts for fabricated items and manufactured items (including mechanical and electrical equipment) required for the construction. Drawings shall be submitted in sufficient time to allow the Engineer not less than twenty regular working days for examining the drawings.
- F. The drawing shall be accurate, distinct, and complete and shall contain all required information, including satisfactory identification of items, units and assemblies in relation to the contract drawings and specifications.
- G. Unless otherwise approved by the Engineer, shop drawings shall be submitted only by the Contractor, who shall indicate by a signed stamp on the drawings or other approved means that the Contractor has checked the shop drawings and that the work or equipment shown is in accordance with contract requirements and has been checked for dimensions and relationship with work of all other trades involved. All deviations from the plans and specifications shall be listed. The practice of submitting incomplete or unchecked shop drawings for the Engineer to correct or finish will not be acceptable, and shop drawings which, in the opinion of the Engineer, clearly indicate that they have not been checked by the Contractor will be considered as not complying with the intent of the contract documents and will be returned to the Contractor for resubmission in the proper form.
- H. When the shop drawings have been reviewed by the Engineer, two sets of submittals will be returned to the Contractor appropriately stamped. If major changes or corrections are necessary, the drawing may be rejected and one set will be returned to the Contractor with such changes or corrections indicated, and the Contractor shall correct and resubmit eight copies of the drawings, unless otherwise directed by the Engineer. No changes shall be made by the Contractor to the resubmitted shop

drawings other than those changes indicated by the Engineer. The resubmittal shall be so indicated on the shop drawing.

- I. The review of such drawings and catalog cuts by the Engineer shall not relieve the Contractor from responsibility for correctness of the dimensions, fabrication details, and space requirements or for deviations from the contract drawings and specifications, unless the Contractor has called attention to such deviations, in writing, by a letter accompanying the drawings and the Engineer approved the change or deviations, in writing, at the time of submission; nor shall review by the Engineer relieve the Contractor from the responsibility for errors in the shop drawings. When the Contractor does call such deviations to the attention of the Engineer, he shall state in his letter whether or not such deviations involve any deduction or extra cost adjustment.

- J. The approval of the above drawings, lists, prints, specifications, or other data shall in no way release the Contractor from his responsibility for the proper fulfillment of the requirements of this contract nor for fulfilling the purpose of the installation nor from his liability to replace the same should it prove defective or fail to meet the specified requirements.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION

SUBMITTAL LIST

Section No. - Title	Shop Drawings & Diagrams	Samples	Certificates (Prequalification/Quality Assurance, Material, Treatment, Applicator, etc.)	Product Data, Manufacturer' s Technical Literature, Sample Warranty and Brochures	SDS Sheets	Reports (Testing, Maintenance, Inspection, etc.)	O & M Manual	Equipment or Fixture Listing	Schedules (Project Installation)	Maintenance Service Contract	Field Posted As-Built Drawings	Others	Guaranty or Warranty	Manufacturer's Guaranty or Warranty (Greater than one year)
02410 – Demolition and removal of existing concrete and asphalt concrete pavement														
05120 – Structural Steel	■			■		■						■		
05400 – Cold-Formed Metal Framing	■		■	■		■								
07900 – Joint Sealants		■		■										■
08113 – Hollow Metal Doors and Frames	■		■	■		■	■		■			■	■	■
08700 - Finish Hardware				■		■	■						■	■
09250 - Gypsum Drywall				■										■
09300 – Porcelain Tiles		■		■									■	■
09990 – Painting and Finishing		■	■	■	■		■		■			■	■	■
10400 – Signage	■	■		■	■		■							
10800 – Toilet Accessories	■			■			■		■				■	■
12355 – Casework	■	■	■	■	■	■	■							■

15400 – Plumbing	■		■	■							■		■	
15653 – Air Conditioning and Ventilation	■		■	■			■	■		■	■		■	
16011 – General Electrical Requirements			■	■									■	
16400 – Electrical Work	■			■			■				■		■	

DIVISION 12 – FURNISHINGS

SECTION 12355

CASEWORK

PART 1 – GENERAL

1.01 GENERAL REQUIRMENTS

A. As Specified in SECTION 01001 – GENERAL REQUIREMENTS

1.02 GENERAL

A. Casework and Cabinetry

1.03 REFERENCES

A. Reference Standards: In addition to requirements, comply with applicable provisions of following for design, materials, fabrication, and installation of component parts:

1. ASTM E 84: Standard Test Method for Surface Burning Characteristics of Building Materials.

B. American Woodwork Institute, Section 400.

1.04 SUBMITTALS

A. Submit under provisions of Section 01300

B. Product Data: Manufacturer's data sheets on each product to be used, including:

1. Preparation instructions and recommendations.

2. Storage and handling requirements and recommendations.

3. Installation methods.

4. Technical Data Sheets

C. Shop Drawings: Submit shop drawings indicating room sizes, layout, cabinet dimensions, material thickness, size and location of fixture holes, utility, and sink cut outs.

D. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full standard stocking color range of available colors and patterns.

E. Verification Samples: For each finish product specified, two samples, minimum size 4 inches (101mm) square representing actual product, color, and patterns.

1.05 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Single manufacturer with a minimum of fifteen years' experience will provide all primary products specified in this section.
- B. Installer Qualifications: Single installer approved by the manufacturer with a minimum of ten years demonstrated experience in installing products of the same type and scope as specified in this section will install all products listed.
- C. Product Designations: Drawings indicate size, configurations, and finish material of casework by referencing designated manufacturer's catalog numbers. Other manufacturers' casework of similar sizes, similar door and drawer configurations, same finish material, and complying with the Specifications may be considered.
- D. Regulatory Requirements: Comply with disabilities act (ADA) and with code provisions as adopted by authorities having jurisdiction.
- E. Source Limitations for Cabinets: Obtain cabinets through one source from a single manufacturer.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Store and dispose of hazardous materials in accordance with requirements of local authorities having jurisdiction.

1.07 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.
- B. Environmental Limitations: Do not deliver or install kitchen casework until building is enclosed, wet-work is complete, and HVAC system is operating and will maintain temperature and relative humidity at occupancy levels during the remainder of the construction period.
- C. Established Dimensions: Where kitchen casework is indicated to fit to other construction, establish dimensions for areas where casework is to fit. Coordinate construction to ensure that actual dimensions correspond to established dimensions. Provide fillers and scribes to allow for trimming and fitting.
- D. Field Measurements: Where kitchen casework is indicated to fit to existing construction, verify dimensions of existing construction by field measurements before fabrication and indicate measurements on Shop Drawings. Provide fillers and scribes if necessary.
- E. Field Measurements for Countertops: Verify dimensions of countertops by field measurements after base cabinets are installed but before countertop fabrication is complete. Coordinate

fabrication schedule with construction progress to avoid delaying the Work.

1.08 COORDINATION

- A. Coordinate layout and installation of blocking and reinforcement in partitions for support of kitchen casework.

1.09 WARRANTY

- A. At project closeout, the selected manufacturer shall warrant and provide to the owner or owners representative an executed copy of a warranty for a period of one-year after Project Acceptance Date, that all products and equipment shall be free from defects in material and workmanship.

PART 2 - PRODUCTS

2.01 CABINETRY

- A. Accepted Manufacturer: Formica Plastic Laminate. Decorative surface papers impregnated with melamine resins are pressed over Kraft paper core sheets impregnated with phenolic resin or pre-approved equal.
 - 1. Fire resistance: Core meets Underwriters Laboratories (UL) Class A fire resistance per ASTM E 84.
 - 2. Fire resistance: Core meets Underwriters Laboratories (UL) Class B fire resistance.
 - 3. Description: General purpose laminate – Solid Colors.
 - 4. Laminate Grade: Grade 12 or Grade 20.
 - 5. Laminate Color: As indicated on Drawings.
 - 6. Laminate Finish: As indicated on Drawings.
 - 7. Laminate Applications: Manufactured Plastic-Laminated-Faced Casework.
- B. Cabinet Bodies:
 - 1. Exposed edges: Straight profile; eased edges to remove sharpness; machine polished and free from tooling imperfections.
 - 2. Cabinet Sides and Bottoms: 1/2 inch (13mm) thickness.
 - 3. Door and Drawer Heads: 1/2 inch (13mm) thickness.
 - 4. Horizontal Rail Supports: 1/2 inch (13mm) thickness.

5. Cabinet Backs: 1/4 inch (6mm) thickness.
 6. Wall Cabinet Backs: 1/2 inch (13mm) thickness.
 7. Cabinet Shelves: 3/4 inch (19mm) thickness.
 8. Fixed Shelves: 1/2 inch (19mm) thickness.
 9. Middle Stretchers: 1/2 inch (13mm) thickness.
 10. Security Panels: 1/2 inch (13mm) thickness.
 11. Drawer Box: 5/8" (16mm) thickness.
 12. Top Stretcher: 3/4 inch (19mm) thickness.
- C. Ancillary Panels: Finished end panels and closures fabricated of 1/2 inch (13mm) thick solid phenolic composite material.

2.02 CABINET HARDWARE

- A. Hinges: Heavy duty stainless steel. Aximat 300 Thin Panel 344.75.051, fixed pin, and all edges eased or approved equal.

Each to have a minimum of four screw attachment holes. Hinges to accommodate 1/2 inch (13 mm) door thickness. Meets or exceeds ANSI/BHMA A156.9- 2003 load and cycle tests.

1. One pair per door to 36 inch (914mm) height.
 2. One and one half pair per door 36 inch (914mm) through 60 inch (1524mm) height.
 3. Two pair per door over 60 inch (1524mm) height.
 4. Hinge to allow for no door protrusion at 140 degrees of opening and have integral stay-close feature.
- B. Pulls to be 316 stainless steel satin 4 inch (102mm) wire pull.
1. Drawers less than 24 inches (610mm) in width to receive one pull.
 2. Drawers over 24 inches (610mm) in width to receive two pulls.
 3. Doors receive one pull.
- C. Adjustable shelf supports: Shelf clips to be nickel-plated 1/4 inch (6mm) angular with riveted pin to engage shelf in such a way as to avoid slippage and movement of shelf.

2.03 CABINETRY FABRICATION

- A. Each cabinet is complete, modular, and rigid, permitting relocation at anytime.

- B. Cabinets incorporate full overlay and European style design. The door and drawer heads create a 1/8 inch (3.2mm) horizontal and vertical reveal.
- C. Drawer and cupboard units:
 - 1. Base cabinets to consist of drawers, cupboard doors or a combination of as shown in Contract Drawings.
 - 2. All base cabinets shall have removable back panels from the inside of the cabinet for access to the pipe spaces to the rear of the cabinet as available in the cabinet design.
 - 3. Cupboard units to be provided with an adjustable shelf. Shelf clips to be 1/4 inch (13 mm) nickel plated, angular with riveted pin to engage shelf in such a way as to avoid slippage and horizontal movement of shelf.
 - 4. Sectional units have 4 inch (102mm) high by 2 1/4 inch (57mm) deep toe space members unless otherwise noted on Contract Drawings.
 - 5. Drawers are Grass Zargen epoxy coated steel drawer system fabricated of 5/8 inch (16mm) thick solid composite phenolic resin material and have an epoxy coated full extension 100 lbs. (45kg) drawer guides as standard. Drawer bottoms of matching 5/8 inch (16mm) material.
- D. Match all storage cabinets and cases to design and construction of sectional units specified.
- E. Base:
 - 1. Curb mounted

PART 3 – EXECUTION

3.01 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.02 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.03 CABINETS INSTALLATION

- A. Install cabinets in locations as shown on shop drawings per manufacturer's instructions.
- B. Install casework with no variations in flushness of adjoining surfaces; use concealed shims. Where casework abuts other finished work, scribe and cut for accurate fit. Provide filler strips, scribe strips, and moldings in finish to match casework face.
- C. Install casework without distortion so doors and drawers fit openings and are aligned. Complete installation of hardware and accessories as indicated.
- D. Fasten cabinets to adjacent units and to backing.
 - 1. Fasten wall cabinets through back, near top and bottom, at ends and not less than 24 inches o.c. with No. 10 wafer-head screws sized for 1-inch penetration into wood framing, blocking, or hanging strips.
- E. Use hardware supplied or recommended by the manufacturer.
- F. Correct and/or replace damaged components as directed by architect.

3.04 CLEANING AND ADJUSTMENT

- A. Clean all surfaces in accordance with manufacturer's instructions. Do not use abrasive cleaners.
- B. Adjust doors and locks for smooth operation without binding.
- C. Lubricate door hinges and locks per manufacturer's instructions.

3.05 PROTECTION

- A. After installation, protect the work surfaces from damage. Keep free from paint, plaster, cement scratches, or any other destructive forces. Repair as required.

END OF SECTION