

DIVISION 10 - SPECIALTIES

Section 10000 - General Discussion

Introduction

The products specified in Division 10 are the pieces and parts that make up the finishing touches of a project. In many cases they make the room or spaces functional. High quality, serviceability, maintainability and extended product life are the needs upon which this Section is developed. In some cases qualitative standards are cited for an item(s) and in others, specific product names and manufacturers are cited. When the product or item is cited by name, it is the intention that the name/item(s) be incorporated into the project. In such cases the University maintain "in-house" expertise, parts and maintenance stock to service the item. Further, it is in the best interest of the University to have consistency if only from the standpoint of the sheer logistics of maintaining and supplying its many buildings.

The consultant should select from the range of products and review and coordinate with the Project Manager and Users to determine any special requirements or features for the project.

Chalkboards, Markerboards, and Tackboards

These items, as specified, conform to the University Classroom Design Standards. They are fairly standard and should be specified, sized, selected and customized based on User need and preferences.

Toilet Partitions

Metal toilet partitions are the product of choice for the University. These have proven to be the most vandal resistant, repairable and serviceable of all the products now in use on campus. However there are other applications where metal is ill-advised and may be subject to wet or *corrosive conditions* in excess of normal conditions such as locker rooms and pool areas. In such conditions *solid plastic panel partition systems* will be acceptable. Plastic laminate clad wood or particleboard shall not be specified or used.

Corner Guards

Corner guards are a practical solution to a major problem in high use public areas and corridors, in particular where cart and rolling traffic is present. The selected product should be carefully considered and attention to detailing at the tops (where a radius may meet a ceiling grid) and bottoms (where base materials may wrap or butt). Termination of wall coverings at corner guards should also be studied and detailed. Color of materials must also be considered for match or contrast with adjacent surfaces.

Signage and Graphics

Example of comprehensive signage package is incorporated into the Section. Room names and numbers as they appear on the drawings may not be the same as that used by the University for identification. This should be verified prior to submittal of shop drawings. A schedule showing all of the signs required, as well as the type together with location plan must be included. This comprehensive signage package must be included regardless of who provides the signage, be it the University or an outside vendor.

Letters and Plaques

Location of letters and building name shall be coordinated with the Project Manager. Recently, building identification has been accomplished with free standing signage. If letters are provided, size shall be at least 8". Style of letters shall be reviewed by Project Manager.

Directories and Bulletin Boards

Design should compliment the building. Size and location of directory and bulletin board should be coordinated with the User and the Project Manager. Adequate sizes shall be established to allow for building growth and sufficient sets of letters shall be provided with the units. Size of letters and tactile marking to comply with ADA requirements shall be considered by the Consultant. Units must be of vandal proof construction.

Fire Protection Devices

Fire extinguishers will be provided and installed as a part of the construction contract. Type shall be selected as appropriate for the class of equipment being served. Locations shall be shown on the drawings and coordinated with the University's Risk Management department.

Toilet Accessories

Occasionally requirements will vary depending upon whether the project is located on the Main Campus, AHSC, or within a Residence Life Facility. Verify with Project Manager of specifics.

End of Section 10000

DIVISION 10 - SPECIALTIES

Section 10100 - Chalkboards, Markerboards and Tackboards

These items should conform to the University Classroom Design Standards. The products are fairly standard and should be specified, sized, selected and/or customized based on the User's needs and preferences with the concurrence of the University Teaching Center.

Part 1 - General

- Markerboards are preferred over chalkboards primarily because of the problems associated with chalk dust. The University is gradually migrating in this direction but there may be instances where chalkboards are more desirable. Chalkboards should be avoided when an appreciable amount of computer and audio visual equipment is used in the area.
- Locations, mounting heights and sizes should be clearly shown on the drawings and elevations.

Part 2 - Products

- Chalkboards and markerboards (whether fixed or moveable) shall be of 3-ply construction consisting of a face sheet, core material and backing.
 - Face sheet shall be one piece 24 gauge porcelain enamel steel skin (magnetic) with appropriate fused surface for either chalkboards or dry erase markerboards. Surface for chalkboards shall be similar to "Vitracite" by Claridge with matte finish, color: Black only. Surface for markerboards shall be similar to "LCS" by Claridge with high gloss finish intended for use with liquid felt-tipped markers, color: White or Light Gray.
 - Core for fixed units shall be minimum 3/8" particle board or Duracore. Core for moveable units shall be minimum 3/8" heavy kraft paper honeycomb.
 - Backing for fixed units shall be aluminum foil. Backing for moveable units shall be 26 gauge galvanized steel sheet.
 - Accessories (fixed boards): Provide continuous extruded aluminum chalktray at bottom of board. Provide cork tack strip along top of board with sliding map clips every twelve inches.
 - Aluminum frame and accessories shall be clear anodized aluminum finish.
- Moveable units should be manually operated, vertical sliding, multiple 2 or 3 tack, counterbalanced with shielded ball bearing pulleys and aircraft cable supporting wires. Horizontal sliding units should be avoided. Operation should be easy and quiet with no rattling of panel within the track. Provide units with integral continuous chalktray. Motorized vertical units may be considered depending on the application with the approval of FM.
- Vertical sliding units may either be surface mounted or floor mounted with a kick panel. In either case the back fixed surface should be utilized as a similar writing surface or a projection surface. Bare walls behind the vertical sliding units should be avoided. Kick panel surface should be specified to compliment the adjacent finishes.
- Any individual unit should not be larger than 16 feet long.
- Tackboards should be natural cork product combined with linseed oil laminated on a burlap backing with natural pigments that go through to the backing. Preferred color is tan. Product shall be self healing, soil resistant, washable, have a low light reflectance and not contain any toxins or harmful emissions. Minimum thickness of cork should be 1/4". Boards may be additionally mounted on hardboard backing for rigidity.

Part 3 - Execution

- If a projection surface is intended behind vertical sliding units, care must be exercised to insure that the height of the markerboard are sufficient to serve this purpose. A general rule is that the top of the screen surface should be no less than the centerline of the projector lens.
- Provide the maximum manufacturer's available guarantee.

End of Section 10100

DIVISION 10 - SPECIALTIES

Section 10155 – Solid Plastic Toilet Compartments

Introduction

Toilet compartments are subject to considerable use, damage and vandalism. Consequently they need to be given attention to insure that they will withstand this abuse and not present a maintenance burden.

Wood and wood laminate partitions are not to be used.

Part 1 - General

- Toilet compartments are subject to vandalism and therefore must be adequately braced and constructed of material that is not easily defaced or deformed.

Part 2 - Products

- Toilet partitions, compartments, doors and screens should be constructed of standard fabricated *high density polyethylene* or solid *phenolic* panels. Customized shapes and configurations should be avoided.
- Partition supports and pilasters should at least be specified for floor and wall attachment. Additionally attach to ceiling bracing if possible. Partitions which are attached only to the ceiling and walls must be avoided. Provide anti-grip type overhead braces over door openings.
- Pilaster shoes and caps should be attached with manufactured clips.
- All fasteners and assembly screws shall be tamper proof. Partitions shall be attached to the wall with no less than three brackets. Brackets shall be secured with no less than two fasteners.
- All hardware shall be heavy duty institutional type. Door hinges shall be adjustable self closing.
- Doors on HC stalls shall be out-swinging. Doors on regular stalls shall be in-swinging. Provide pulls on both sides of out-swinging doors to handicap stalls.
- Screens shall be attached with wall brackets and a front supporting post secured to the floor to provide additional resistance from lateral impact.

Part 3 - Execution

- Adjust hinges so that both in-swinging and HC out-swinging doors remain open at a 30 degree angle when unlatched. All partitions, compartments and doors shall be installed so all edges are plumb, level and parallel. Protect during construction and clean prior to acceptance.

End of Section 10155

DIVISION 10 - SPECIALTIES

Section 10160 - Toilet Compartments

Introduction

Toilet compartments are subject to considerable use, damage and vandalism. Consequently they need to be given considerable attention to insure that they will withstand this abuse and not present a constant maintenance burden.

Wood and wood laminate partitions are not to be used.

Part 1 - General

- Toilet compartments are subject to vandalism and therefore must be adequately braced and constructed of material that is not easily defaced or deformed.

Part 2 - Products

- Toilet partitions, compartments, doors and screens should be constructed of standard fabricated hollow metal, *high density polyethylene or solid phenolic panels*. Customized shapes and configurations should be avoided.
- Metal panels are best fabricated from heavy gauge brushed stainless steel as it the most resistant to defacing and easiest to clean and maintain. Painted or enameled metal panels are discouraged as they are easily defaced.
- Partition supports and pilasters should at least be specified for floor and wall attachment. Additionally attach to ceiling bracing if possible. Partitions which are attached only to the ceiling and walls must be avoided. Provide anti-grip type overhead braces over door openings.
- Pilaster shoes and caps should be attached with manufactured clips.
- All fasteners and assembly screws shall be tamper proof. Partitions shall be attached to wall with no less than three brackets. Brackets shall be secured with no less than two fasteners.
- All hardware shall be heavy duty institutional type. Door hinges shall be adjustable self closing.
- Doors on HC stalls shall be out-swinging. Doors on regular stalls shall be in-swinging. Provide pulls on both sides of out-swinging doors to handicap stalls.
- Screens shall be attached with wall brackets and a front supporting post secured to the floor to provide additional resistance from lateral impact.

Part 3 - Execution

- Adjust hinges so that both in-swinging and HC out-swinging doors remain open at a 30 degree angle when unlatched. All partitions, compartments and doors shall be installed so all edges are plumb, level and parallel. Protect during construction and clean prior to acceptance.

End of Section 10160

DIVISION 10 - SPECIALTIES

Section 10260 - Wall and Corner Guards

Introduction

Corner guards are a practical solution to a major problem in high use public areas and corridors. The selected design should be carefully considered and attention to detailing at the top (where a radius may meet a ceiling grid) and bottom (where base materials may wrap or butt) must be studied. Corner guards should never terminate part way up a wall. Termination of wall coverings at corner guards should also be studied and detailed.

Part 1 - General

- Color of materials must be considered for match or contrast with adjacent surfaces.

Part 2 - Products

- Generally a heavy gauge brushed stainless steel corner guard with rounded corners is preferred.
- Heavy duty textured snap-in PVC materials on an aluminum retainer may be considered where color or a flush appearance is important.

Part 3 - Execution

- Manufacturers installation literature shall be followed with sufficient backup provided for support.
- Care shall be taken not to void fire ratings of walls.

End of Section 10260

DIVISION 10 - SPECIALTIES

Section 10410 - Directories and Bulletin Boards

Introduction

Design should compliment the building. Size and location of directory and bulletin boards should be coordinated with the User and the Project Manager.

Adequate sizes shall be established to allow for building growth and sufficient sets of letters shall be provided with the units. Size of letters and tactile marking to comply with ADA requirements shall be considered.

Part 1 - General

- Units shall be vandal proof construction

Part 2 - Products

- There are no unique University requirements.

Part 3 - Execution

- Mounting shall be concealed and vandal proof.

End of Section 10410

DIVISION 10 - SPECIALTIES

Section 10420 - Dedication Plaque

Introduction

A cast metal dedication plaque is required by Board of Regent policy on all projects in which the construction cost exceeds \$1.0 million.

The dedication plaque shall be furnished and installed as part of the construction project.

Part 1 - General

- Plaque shall be identified on the drawings and located near the building entrance, just inside or outside of the main entry doors. For building additions, the location of the new plaque shall not conflict with or replace the location of the existing plaque(s).
- University of Arizona DSS Detail 10420-D1 shall be used to provide a dimensioned elevation view and details of the plaque in the project specification. No deviations from this standard will be allowed for new buildings. For building additions endeavor to match the details of the existing original plaque(s).
- Text for plaque shall be furnished by the University and adhere to the following traditions:
 - The date of erection shall be the year in which the construction effort was complete.
 - The names of the Governor, members of the Board of Regents and President of the University are those that held office at the time the construction contract was awarded.
 - The above information as well as the name of the building shall be verified in writing with the University of Arizona President's Office.
 - The names of the Architect, Contractor and Construction Manager (if applicable) shall be the same as that contained in their respective contracts and limited to one line each.
 - Exact text for plaque will typically not be available at the time the project is bid. Consequently, for bidding purposes, only an example of the text can be provided or an allowance of 400 letters established. Exact text shall be confirmed as part of the shop drawing review process.
- Required submittals from the manufacturer shall include technical product data, detailed shop drawings and a final full size rubbing of the mold prior to casting. Shop drawing submittal shall include an accurate scaled drawing of the plaque showing complete layout and size of text as well as large scale details of letters, border style and anchoring method.

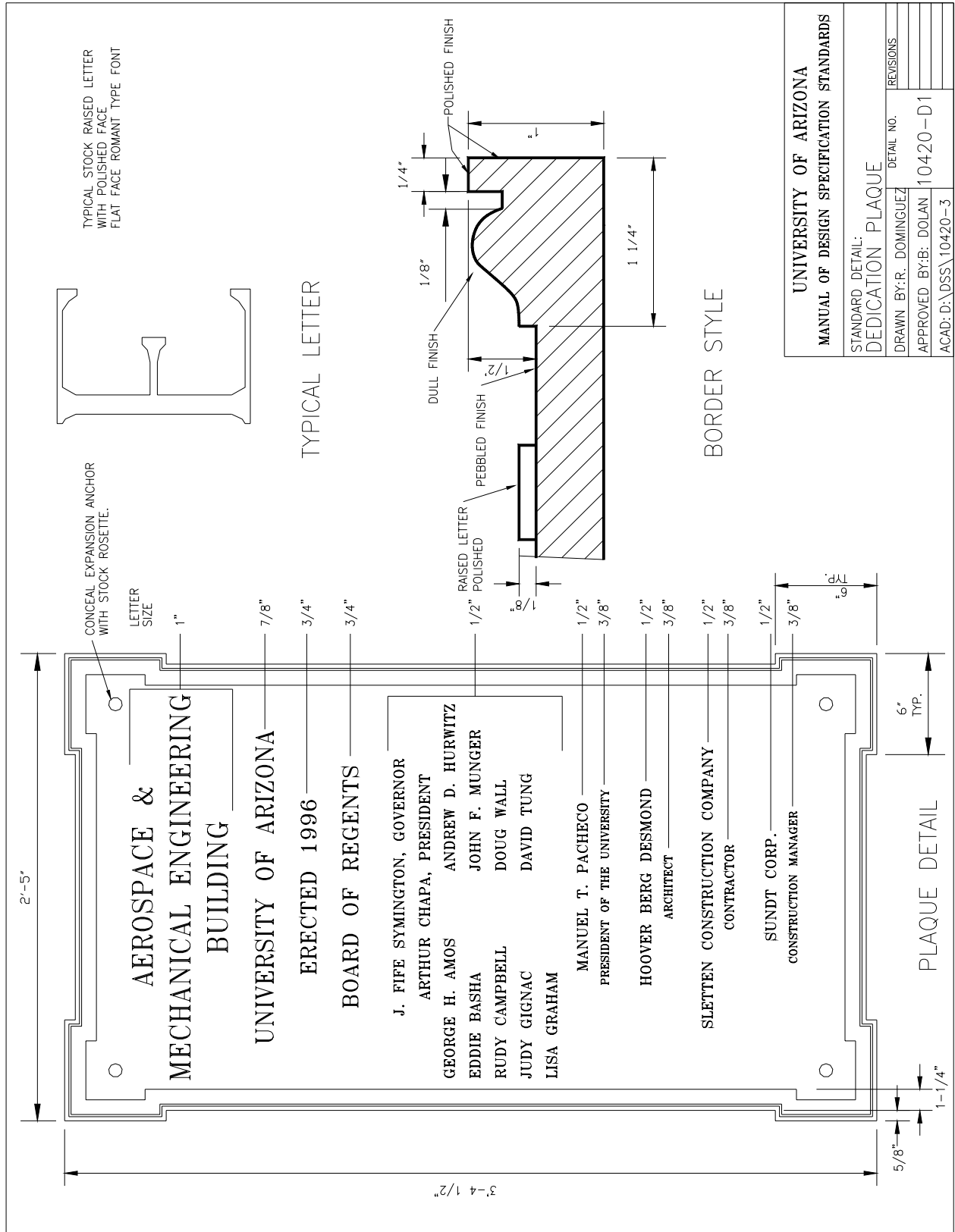
Part 2 - Products

- Plaque shall be of cast metal bronze unless matching an existing original plaque. Background of plaque shall be manufacturer's standard pebble texture and oxidized. Text shall be flat faced Roman style font (flat face classic). Raised text and border shall be belt finished or milled to provide a uniform polished satin grain highlight.
- Fasteners or anchors shall be appropriate for exterior installations and be non-corrosive to either the sign material or mounting surface. Exposed fasteners shall be countersunk, utilize a security head and be concealed with a standard rosette. Border shall be U of A standard as detailed. (Custom Ogee.)
- Overall dimensions of plaque may vary slightly to accommodate variations in text but must be approved by the University during the shop drawing process.
- A durable clear coat protective finish shall be applied to the plaque after casting. Comply with NAAMM "Metal Finished Manual" for finish designations and criteria.

Part 3 - Execution

- After installation clean and protect plaque until final acceptance by the University

End of Section 10420



DIVISION 10 - SPECIALTIES

Section 10430 – Exterior Signs

Introduction

All exterior signs shall comply with the University Identification Guide, Section II – Exterior Signage Guide.

Part 1 - General

- Compliance with the Exterior Sign Manual is to ensure the implementation of a comprehensive and consistent campus-wide exterior sign program including but not limited to: identification, directional, informational, and regulatory signs.
- Generally, projects that entail new facility construction, additions to existing facilities, facility renovations that involve change of use, site modifications, and other similar work will require new exterior signage or changes to existing exterior signage.
- Where exterior signage is required, it will be the responsibility of the project to include exterior signage in the Scope of work and the project budget.
- It shall be the responsibility of the Design Consultant in conjunction with the User to first identify and then document the extent, location, size, text, graphics, color, materials and other signage elements consistent with the criteria in the Exterior Sign Manual.
- It is recommended that signage development be initiated early in the design of the project.
- All Exterior Signage must be reviewed and approved by The University Sign Committee per the Sign Review Procedures detailed in the Exterior Signage Guide.
- Copies of the Exterior Signage Guide should be obtained and coordinated through the FDC Project Manager.
- In general, most exterior signage will be fabricated and installed by The University's Facilities Management shops following Sign Committee approval and processing the necessary Work Orders through Facilities Management. The FDC Project Manager should assist the Design Consultant in segregating and budgeting exterior signage that will be under the contract for construction versus via Work Orders to University personnel. The FDC Project Manager shall issue the Work Orders.

Part 2 - Products

- No discussion

Part 3 – Execution

- No discussion

End of Section 10430

DIVISION 10 - SPECIALTIES

Section 10520 - Fire Protection Devices

Introduction

Fire extinguishers shall be provided and installed as a part of the construction contract. Type shall be selected as appropriate for the class of equipment being served.

Locations shall be shown on the drawings.

Part 1 - General

- Cabinets shall be large enough to contain a 10# dry chemical type extinguisher. Coordinate wall thickness to insure adequate depth is provided.
- Mounting brackets shall be provided for extinguishers not located in cabinets.

Part 2 - Products

- Fire extinguishers shall generally be multi-purpose dry chemical type, UL rated, 4-A:60-B:C, 10lb nominal capacity, in enameled steel container for Class A, Class B and Class C fires.
- Fire extinguisher cabinets shall be either semi or fully recessed type with enameled steel box. Exposed trim, door material, door style and hardware shall be as selected by the Consultant and appropriate to the design of the building. Lobbies, public spaces, corridors and the like may have upgraded materials in keeping with the building design. In less public areas, polished, non-directional #4 stainless steel should be considered for door material.

Part 3 - Execution

- Securely fasten mountings to building.
- Cabinets shall be identified with lettering spelling "FIRE EXTINGUISHER".

End of Section 10520

DIVISION 10 - SPECIALTIES

Section 10810 - Toilet Accessories

Introduction

This section addresses the type of accessories which are to be provided or anticipated for all new and remodeled restrooms.

Requirements for toilet accessories may vary depending upon whether the project is located on the Main Campus, at AHSC or within a Residence Life Facility. All assumptions shall be verified with the Project Coordinator and the respective custodial group.

Facilities Management administrates annual contracts for the furnishing of paper towels, hand soap and toilet tissue. Consequently these respective dispensing elements are *sometimes* supplied by the vendor or FM Custodial Services.

Below are the requirements for toilets which will be serviced and maintained by Facilities Management.

Part 1 - General

- Provide at least one paper towel dispenser for every three sinks and install at HC accessible height.
- All dispensing units shall be surface mounted. Recessed elements are to be avoided. Stud walls should receive appropriate blocking to accommodate surface mount attachment.
- For new projects, FM Custodial Services will provide hand soap and toilet tissue dispensers for installation by the contractor. Paper towel dispensers are to be provided and installed by the contractor.
- Trash receptacles are to be located or at least anticipated in every restroom.
- Provide an Accessories Schedule in the specifications or on the drawings listing each room and the quantity of each type of accessory required *as well as who provides what elements and who installs.*
- Consultant should anticipate and prescribe locations of owner furnished elements so as to insure that conflicts with contract work do not exist.

Part 2 - Products

- Paper towel dispensers shall be surface mount, *Ft. James "Universal Roll Towel Dispenser", model 58553, lever operated, smoke gray.*
- Soap dispensers are provided by Custodial Services *via their soap vendor* and are surface mounted *WAXIE "Nice Touch" stock #380143, white,* with either adhesive backing or screw attachment. Avoid attaching to mirror.
- Toilet tissue dispensers are provided by Custodial Services *via their paper vendor* and are large diameter surface mounted covered spools, *Jaric Jumbo Stainless Steel, stock #KD1000. Handicap accessible toilet stalls use side by side, surface mount WAXIE "Compact Coreless Tissue Dispenser", stock #537412, smoke gray.*
- Sanitary napkin/tampon vendors shall be surface mounted and constructed of stainless steel. Capacity not less than 15 napkins and 20 tampons. Currency cost and coin slot for \$0.25. Brand name advertising not allowed. Provide Bobrick B-352 or equal.

- Sanitary napkin disposal units shall be surface mounted and constructed of stainless steel. Bobrick B-3544 or equal.
- Waste receptacles will be provided by Custodial Services as *part of FFE* and will be free standing units.
- Grab bars shall be stainless steel, 18 gauge minimum wall thickness, 1.5" minimum outside diameter with concealed mounting devices. Install to provide 1.5" clearance between wall and inside face of handrail.
- Mirrors shall be 1/4" glass with stainless steel frame and concealed fasteners. Locate and size mirror to provide adequate free wall space for soap dispenser.

Part 3 - Execution

- Provide stud wall backing for all surface mounted accessories.
- Protect all toilet accessories from damage during the course of construction.
- Clean all surfaces in strict accordance with manufacturer's recommendations after removing temporary labels and protective coatings.
- Mount paper towel dispensers with lever at 48" A.F.F. for ADA accessibility.
- Layout all accessories to ensure that surface mount elements do not restrict access to sinks.

End of Section 10810