PART 0 DESIGN STANDARDS

0.01 GENERAL DESIGN GUIDELINES

A. Provide 4" X 4" glazed wall tile to a height as required by code and the Health Department.

B. Provide 6" x 6" or 8" x 8" unglazed quarry tile in kitchens.

C. Povide 2" x 2" (or other size approved by DPS) unglazed floor tile in student restrooms and shower rooms.

D. Provide a minimum of 6" butt cove base at all quarry tile flooring locations.

E. Architect shall review the locations of all ceramic tile with the DPS Project Manager.

F. Architect shall verify any special requirements for location of tile surfaces with regards to the local codes.

G. Balance any patterned layouts centered in each room. Avoid complex patterns and patterns requiring the cutting of tile within the field of the surface being tiled.

H. Elementary schools require cut-out of quarry tile base around toilets.

I. Architect shall show control and isolation joints on the plans.

J. Grout colors shall be white for wall tile and grey for floor tile where ceramic tile is used. For quarry tile- use only dark grout colors.

K. Architect shall coordinate the requirements for waterproof membrane underlayments in shower areas.

L. Architect shall coordinate sloping of floors to all floor drains with the thickness of the concrete slab.

M. Slope shower drains individually so that water from one stall does not flow to the adjacent one.

N. Slip resistant tile (grit embedded materials) shall not be used without the written approval of the DPS Project Manager.

O. Provide reinforced cement backer board for wall tile installations over metal stud framing.

P. Tile sealers shall not be used on any tile without the written approval of the DPS Project Manager.

PART 1 GENERAL

1.01 QUALITY ASSURANCE

A. Furnish tile conforming with Standard Grade requirements of ANSI 137.1

B. Conform to Tile Council of America "Handbook for Ceramic Tile Installation" and ANSI A108, A118 and A136 as applicable.

PART 2 PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

A. Daltile

B. Capco

2.02 MANUFACTURERS

A. Provide only domestically manufactured ceramic and quarry tiles

B. Provide tile-setting and grouting material as approved by tile manufacturers

2.03 MATERIALS

A. Unglazed Quarry Tiles:

1. Composition: non abrasive smooth face quarry tile.
2. Module Size: 8 by 8 or 6 by 6 inches

3. Nominal Thickness: 3/8”
4. Face: Plain w/relieved edges.

B. Unglazed Ceramic Tiles:
1. Composition: non-abrasive porcelain .
2. Module Size: 2 by 2 inches (or larger)
3. Nominal Thickness: ¼”
4. Face: Plain with cushion edges..

C. Glazed Wall Tile:
1. Composition: Porcelain
2. Module Size: 4.25" x 4.25"
3. Nominal Thickness: 5/16"
4. Face: Matte glaze finish, cushion edge.

D. Trim Shapes: As required for a complete installation, of same material, size, color and finish of field tile. Provide shapes from manufacturer's standards as follows:
1. Wainscot Cap: Surface bullnose.
2. Base: Butt Cove base
3. In-Corner: Field-butted square corners with coved base and cap angle pieces to match with stretcher shape.
4. Out-Corner: Surface bullnose
5. Jambs: Surface bullnose where tile projects from jamb.

E. Waterproofing For Thinset Tile: One-part liquid-applied urethane in a consistency suitable for trowel application and intended for use as both waterproofing and tile-setting adhesive in a two-step process.

F. Setting Materials: Latex-modified, acrylic based portland cement thinset mortar complying with ANSI A118.4.

G. Grouts:
1. For Kitchen Floors : Proprietary compound epoxy grout (pigmented).
2. For all other floor and wall tile - Proprietary compound composed of portland cement with latex acrylic based additive, complying with ANSI A118.6.

H. Floor Leveling Compound: Multi-purpose acrylic latex admixture with a maximum depth of ¾” and a minimum compressive strength of 3700 psi. Complying with ASTM-C190, ASTM D-3931, ASTM C-109.

I. Backing/Substrate material: use appropriate water resistant materials such as cement board.

PART 3 EXECUTION

3.01 INSTALLATION

A. Comply with manufacturers instructions and applicable ANSI standard installation specifications series A108, A118 and A136.

B. Maintain minimum temperature limits and installation practices as recommended by propietary mortar and grout materials manufacturer.

C. Unless otherwise noted, lay tile in grid pattern. Align joints when adjoining tiles on floor, base, walls and trim are the same size.

D. Provide joint width of 1/16" to 0.125" for ceramic tile, ¼" for quarry tile.

E. Install tile per Tile Council of America methods appropriate to substrate.

F. Provide expanison and control joints per Tile Council of America EJ171 and A3.4 of ANSI A1008 series.- use one-part pourable urethane sealants for expansion and control joints.

3.02 MAINTENANCE STOCK

A. Furnish 2% each type, color and size of tile used on the project, with a minimum of 20 square feet provided. Supply in boxes clearly marked as to contents and coordination with designation on specifications and drawings.

B. Furnish 12 extra pieces of each special shape tile type and color used.

END OF SECTION 09300