

Technical Specifications

January 28, 2008

Furnish and Install Ceramic, Porcelain Tile and Modular Carpet tiles at Fire Station No. 62

1.0 General

- 1.1 The Contractor shall be responsible for providing all materials, supplies, tools, equipment, labor, supervision, and insurance necessary to furnish and install ceramic, porcelain, and modular carpet tile at Fire Station No. 62, per the following specifications and attached drawings. Fire Station 62 is located at 1602 Seamist, Houston, TX 77008

2.0 BATH/RESTROOMS (3) crew, captain's, and women's

- 2.1 All restroom walls shall be covered with 4 1/4" x 4 1/4" ceramic tile as specified on product specification sheet.
- 2.2 Bottom row of wall tile at floor shall not be a sanitary cove style.
- 2.3 Wall tile shall be aligned vertically and horizontally and not staggered.
- 2.4 All restroom floors shall be covered with 2" x 2" Mosaic Porcelain tile as specified on product specification sheet.
- 2.5 All restroom ceilings shall be sheet-rocked and painted by a City of Houston GSD (General Services Dept) Crew and **shall have no tile**.
- 2.6 Refer to floor plan for approximate square footage of each room.
- 2.7 Site visits for field measurements can be coordinated with City of Houston GSD Field Supervisor.

3.0 SHOWER STALLS (4) 2 crew, 1 women, 1 captain

- 3.1 All shower walls shall be covered with 4 1/4" x 4 1/4" ceramic tile as specified on product specification sheet.
- 3.2 All shower floors shall be covered with 2" x 2" Mosaic Porcelain tile as specified on product specification sheet. The Contractor shall ensure that tile is flush with top of drain for proper drainage.
- 3.3 Tile contractor is responsible for shower mortar bed application per City code Including vinyl shower pan. Mortar bed should have a slope of one-quarter (1/4") inch per foot from wall to drain.
- 3.4 All shower stall ceilings shall be sheet-rocked and painted by a City of Houston GSD Crew and **shall have no tile**.

4.0 ROOMS WITH 12"x 12" PORCELAIN TILE FLOORS (kitchen, locker room, watch office, study room & foyer/main entry.)

- 4.1 Refer to floor plan for location of rooms designated for 12" x 12" Porcelain floor tile and approximate square footage of each room. Porcelain Floor Tile is specified on product specification sheet.
- 4.2 All rooms with porcelain floor tile shall have black rubber base as specified on product specifications sheet. This includes covering all wood cabinet bases and wood locker pads.
- 4.3 Apply transition strips where needed.
- 4.4 Site visits for field measurements can be coordinated with City of Houston GSD Field Supervisor.

5.0 ROOMS WITH 18"x 18" MODULAR CARPET TILE FLOORS (Lounge, Dormitory, Captains rm. and Office.)

- 5.1 Refer to floor plan provided for location of rooms designated for Carpet. Carpet is specified on product specification sheet.
- 5.2 All rooms with Carpet will receive **black rubber base with toe** as specified on product specification sheet.
- 5.3 Refer to floor plan for the approximate square footage of each room.

6.0 EXAMINATION

- 6.1 **The Contractor shall be responsible for verifying square footage of all rooms and the amount of materials needed and verify that surfaces are ready to receive work.**
- 6.2 Beginning of installation means installer accepts condition of existing substrate.

7.0 PREPARATION

- 7.1 Protect surrounding work from damage or disfiguration.
- 7.2 Vacuum clean existing substrate and damp clean if necessary.
- 7.3 Seal substrate surface cracks with filler. Level existing substrate surfaces to acceptable flatness tolerance per City of Houston GSD Representative approval.
- 7.4 For rooms that have a floor drain, slope the floor from the walls towards the drain.
- 7.5 For **Tile work** apply sealer or primer to the concrete substrate as recommended by the adhesive manufacturer.
- 7.6 For **Modular Carpet tile work** apply sealer or primer to the concrete substrate as recommended by the adhesive manufacturer.

8.0 INSTALLATION : Modular Carpet tile work

- 8.1 Use a Pressure Sensitive (Releasable) adhesive as recommended by the Carpet manufacturer. Follow manufactures directions for application and set time, ect.
- 8.2 Glue the entire area where carpet is to be installed. **Do not** glue in an open grid pattern.
- 8.3 Where Carpet meets tile, use applicable transition strip (reducer) to meet owners approval.
- 8.4 If the Carpet tiles are "Directional" all tiles should be run in the same direction.
- 8.5 The carpet should be ordered from the same **Dye lot**. If this is not possible at the time of ordering or the lead time is unacceptable to the City of Houston rep. Then follow the directions on line 8.6
- 8.6 Do not mix **Dye lots** in the same room. Order carpet in such a way as to be able to complete a room or rooms with the same lot.
- 8.7 Contractor is to supply two (2) boxes, of the most numerous dye lot used, to be left at the Fire Station for future repair / replacement of stained or damaged tiles.
- 8.8 All seams between Carpet tiles are to be tight, flush and meet industry standards for the final appearance of the work.
- 8.9 Lay-out Carpet tiles in such a way that **no border tile is less than half (1/2) the width of a full tile.**
- 8.10 Border tiles should be cut snug to the wall or fixture they abut but not so tight as to cause buckling.

9.0 INSTALLATION : Porcelain & Ceramic tile work

- 9.1 Apply adhesive and grout in accordance with manufacturer's instructions, and to TCA Handbook for Ceramic Tile Installation.
- 9.2 Width of grout lines shall not be less than 5/16" and not more that 3/8".
- 9.3 Maintain industry standard tolerances for levelness of floor tile, keeping all tiles even with next tile.
- 9.4 Unacceptable tiles shall be replaced at contractor's expense.
- 9.5 Sound tile after setting. Replace hollow sounding units.
- 9.6 Allow tile to set for a minimum of 48 hours prior to grouting.
- 9.7 Apply grout sealer to all tiles per manufacturer's directions.
- 9.8 After grout has cured, the contractor shall be responsible for filling all inside corners of bathroom walls, especially in showers, with an acceptable silicone base caulking, allowing for flexibility to seal against water penetration. All cracks in grout caused by setting or shrinkage will also be filled.
- 9.9 All work to be coordinated with other trades through the City of Houston GSD Field Supervisor.

10.0 CLEANING

10.1 The contractor is responsible for maintaining a clean work area at all times during installation and clean up after installation.

11.0 PROTECTION

11.1 10.1 Protect work during installation.

11.2 10.2 Do not permit traffic over finished floor surface. Tape off work areas.

12.0 DELIVERY AND INSTALLATION

12.1 The contractor shall complete all specified work within **thirty (30) calendar days** from the date the Notice to proceed is issued by the City.

12.2 Working hours will be 6:00 a.m. to 2:30 p.m., Monday through Friday. Different times will be considered but must be approved and prearranged with City of Houston GSD Field Supervisor.

12.3 All work to be coordinated with other trades through City of Houston GSD Field Supervisor **Keith Andrews, phone (713) 859-3170**. If Keith Andrews is unavailable, call **Ed Boulter, Phone (713) 859-4081**

13.0 WARRANTY

13.1 A minimum of one (1) year warranty on the Contractor's labor and workmanship shall be provided. The guarantee (warranty) period shall begin the date the City officially accepts the turnkey job. Any warranty work is to be completed within three (3) calendar days after receipt of notification from the City of Houston. Warranty service shall be performed during normal business hours. Standard manufacturer's warranty on tile shall be applied.

**Product Specifications for Tile & Carpet Work
at
Fire Station 62**

Item no.	Description	Pattern/Color/ Product No.	Size	Location
1	Daltile Keystones "ColorBody" Porcelain Tile	Pumice D336	2"x 2"	bathroom & shower floors
2	Daltile Ceramic Semi-Gloss Tile	Ice Grey K176	4¼"x 4¼"	bathroom & shower walls
3	Daltile Ceramic Trim Bull nose	A-4200 Ice Grey K176	2"x 6"	shower door
4	Daltile Ceramic Trim Bull nose	AM-4200 Ice Grey K176	2"x 6"	shower door
5	Daltile Passaggio "Glazed" Porcelain Tile	Arezzo Gold PA31	12"x 12"	all floors except bathroom
6	Polyblend Sanded Grout	Winter Gray 335		bathroom & shower floors
7	Daltile Non Sanded Grout	White 100		bathroom & shower walls
8	Daltile Sanded Grout	Golden Beige 227		all floors except bathroom
9	Multi-purpose Thin Set	N/A		throughout
10	Level Cure Floor Leveler			throughout
11	Burke/Mercer "Rubber Myte" Cove Base with "Toe"	Black 101	4"	Throughout - both with Carpet and Porcelain floor tile installations
12	Metal Threshold	Plain Aluminum		where needed
13	Rubber Reducer Transition Strip	Black		where needed
14	C&A Floor Coverings "Crayon" line Modular Carpet tile, <u>Crayon ER3T</u>	48004 "Treasure Chest"	18" x 18:	Lounge, Dormitory, Captains rm. and Office.
15	Pressure Sensitive (Releasable) adhesive as recommended by C&A Floor Coverings	PS-100 Pressure Sensitive		Where Modular Carpet tile is installed