Furnish and install new FRP below chair rail along entire wall. Install new corner guards at all corners.

Clean up and patch two holes in existing plaster.
PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes: Patch exterior Portland cement plaster to match existing.
   1. Patch existing metal lath where deteriorated and where damaged during construction operations.

1.2 REFERENCES


1.3 SYSTEM DESCRIPTION

A. Performance Requirements: Listed by Underwriters Laboratory, Gypsum Association (GA) File No's in GA-600 Fire Resistance Design Manual or other listing approved by applicable authorities.

1.4 SUBMITTALS

A. Product Data: Submit manufacturer's product specifications for each lathing material and accessory.

1.5 QUALITY ASSURANCE

A. Mock-Up: Provide mock-up of typical plaster patching for Architect approval.

1.6 PROJECT CONDITIONS

A. Take precautionary measures to ensure excessive temperature changes do not occur.

B. Cold-Weather Requirements: Do not apply plaster unless minimum ambient temperature of 50 degrees F has been and continues to be maintained for minimum 48 hours prior to application and until plaster is cured.

C. Hot-Weather Requirements: Protect plaster from uneven and excessive evaporation during hot, dry weather.
PART 2 - PRODUCTS

2.1 MATERIALS

A. Portland Cement Plaster: Provide either neat or ready-mixed (where applicable) materials, at Contractor's option, complying with ASTM C926.

1. Basecoat Materials:
   a. Cement: Normal Type 1 or 1A Portland cement, ASTM C150.
   b. Lime: Special finishing hydrated lime, Type S, ASTM C206.
   c. Aggregate: Natural sand, conforming to ASTM C897 or C144.

2. Brown Coat Water Acrylic Admix. Acrylic latex admix specifically manufactured for use in Portland Cement Plaster applications and which will not detrimentally effect finish.
   a. Basis of Design: Thoro System Products, Inc./Acryl 60.
   b. Additional Acceptable Manufacturers:
      1) Larsen Products Corp./Acrylic Admix 101.
      2) Chem-Masters Corp./Cretelox.

   b. Additional Acceptable Manufacturers:
      1) Larsen Product Corp./Weld-Crete.
      2) Chem-Masters Corp./Polyweld.

B. Water: Clean, fresh and free from injurious amounts of oil, acid, alkali, salts, minerals, organic matter or other deleterious substances.

C. Lathing Materials and Accessories: Comply with requirements of California Building Code and referenced ASTM standards. Match existing unless otherwise indicated.

1. Metal Components:

2. Metal Lath: Self-furring type where over solid substrate.

3. Tie Wire: ASTM A641, soft temper, Class 1 zinc coated; minimum 16 gage for tying metal lath to furring channels and metal lath to metal lath.
4. Inside Corner Mesh: Minimum 26 gage steel; perforated or expanded flanges or clips shaped to permit complete embedding in plaster; minimum 3" by 3" size.

5. Anchorage: Tie wire, nails, screws and other approved metal supports, of type and size to suit application.

6. Accessories: Provide as required for complete plaster patching, replace components which are damaged; match existing; conform to recommendations of referenced standards.
   a. Casing Beads and Base Screeds: Minimum 26 gage, square edges at casing beads; provide with expanded flanges.
   b. Expansion and Control Joints: Match existing.

2.2 PLASTER MIXES
   A. Provide Portland cement plaster mixes in accordance with ASTM C920 as appropriate to substrate indicated and approved samples.
   B. Mix only as much plaster as can be used in one hour.
   C. Mix materials dry, to uniform color and consistency, before adding water.
   D. Protect mixes from frost, dust and evaporation.
   E. Do not retemper mixes after initial set has occurred.

PART 3 - EXECUTION

3.1 EXAMINATION
   A. Verify climatic and surface conditions are satisfactory.
   B. Do not commence installation until unsatisfactory conditions have been corrected.

3.2 PREPARATION
   A. Preparation of Existing Plaster: Remove deteriorated plaster, cut back to sound plaster and back bevel remaining plaster edges, route cracks to scratch coat and bevel plaster edges.
      1. Apply bonding agent to existing plaster in accordance with bonding agent manufacturer's recommendations.
      2. Remove and replace lathing which is rusted or damaged; remove sufficient plaster to allow firm wire tie bond of new lathing to existing undamaged lathing.
a. Metal Lath: Apply metal lath taut, with long dimension perpendicular to supports; secure end laps with tie wire where they occur between supports; lap sides minimum 1-1/2", secure with tie wires.

3. Where efflorescence or stains are evident, ensure cause of moisture in back-up materials has been eliminated.

B. Installation of New Metal Accessories:

1. Fasten in place true to line and in correct relation to adjacent materials and as required to prevent dislodging and misalignment by subsequent operations.

2. Fasten at both ends and at maximum 12" on center along sides.

3. Bring grounding edge of accessories to true lines, plumb, level, and straight.

4. Install accessories to provide required depth of plaster and to bring plaster surface to required plane.

5. Install continuous corner reinforcement for full length of external corners.

6. Beads: Use single length of metal beads wherever length of run does not exceed longest standard stock length available; miter or cope corners.
   a. Provide casing beads where plaster abuts dissimilar construction and at perimeter of openings where edges of plaster will not be concealed by other work.

3.3 PATCHING PORTLAND CEMENT PLASTER

A. Remove surface deposits on plaster with dry brush and wipe affected areas with damp cloth.

B. Major Repairs: At major repair areas conform to ASTM C926 and California Building Code.

1. Apply cement plaster using three coats unless otherwise required to match existing.

2. **Apply each base coat to minimum thickness of 3/8"; allow each coat to slowly dry for minimum period of 48 hours;**
   a. **Moist cure first base coat (scratch coat) during 48 hour period.**

3. Allow base coats to cure for minimum 7 days prior to application of finish coat.

4. Evenly dampen base coat, to ensure uniform suction, and apply finish coat; apply thickness sufficient to secure required texture but in no case less than 1/8".
   a. apply pre-mixed finish coat in accordance with manufacturer's recommendations.
5. Maintain surface flatness, with maximum variation of 1/8" in 10'-0".

6. Avoid excessive working of surface, delay trowelling as long as possible to avoid drawing excess fines to surface.

7. Finish: Provide surfaces with finish to match existing.

C. General Repairing of Portland Cement Plaster: Repair major and minor damage to cement plaster (stucco).

1. For sound cement plaster, having small cracks or other cosmetic blemishes, clean entire surface of existing plaster with detergent, and rinse with clear water.
   a. If surface has been painted, remove paint.
   b. Over one or two coats of sound condition paint, after washing and rinsing surface apply one coat of bonding agent tested and compatible with paint.
   c. Apply finish coat of Portland cement stucco to thickness of approximately 1/8", and texture as required to match adjacent plaster finish.
   d. Take special precautions to ensure temperature of material is maintained at 50 degrees F. during, and for not less than, 48 hours after application.

2. For unsound cement plaster, where segments have become detached from back-up base, remove unsound areas, and verify condition of back-up or base.
   a. Replace damaged lath or lath without sufficient mechanical bond with new self-furring galvanized metal lath.
   b. If back-up is concrete or masonry, clean it completely of old cement plaster and apply one coat of bonding agent.
   c. Apply scratch coat to back-up or base; scratch horizontally for proper bond with brown coat; cure for minimum 48 hours.
   d. Apply brown and finish coats as required for general Portland cement plaster.
   e. Texture finish coat as required to match existing.

3. For large cracks in cement plaster, undercut edges on both sides of cracks to back-up material or base; dry brush cracks clean.
   a. Apply coat of bonding agent to surfaces of damaged area; mix and apply scratch, brown and finish coats as specified.

3.4 CLEANING

A. Promptly remove plaster from surfaces not indicated to be plastered.
END OF SECTION
SECTION 09775

FIBERGLASS WALL PANELS

PART 1 - GENERAL

1.1 SUMMARY
A. Section Includes: Provide glass fiber reinforced polyester (FRP) resin fabricated wall panels with accessories as required for complete installation.
B. Related Sections:
   1. Section 09260: Cementitious backer units at FRP in Custodial Rooms.

1.2 SUBMITTALS
A. Product Data: Furnish manufacturer's literature.
B. Samples: Furnish fiberglass wall panels and exposed trim.

1.3 DELIVERY, STORAGE, AND HANDLING
A. Store panels in clean and dry area where temperatures are maintained at minimum 40 degrees F with normal humidity.
   1. Do not store in upright position.
B. Take precautionary measures with adhesives and solvents to prevent fire hazards.

1.4 PROJECT CONDITIONS
A. Maintain surfaces and materials at minimum 60 degrees F three days before and during application period.
B. Provide continuous ventilation during work and after installation of wall covering.

1.5 SCHEDULING
A. Schedule installation of wall paneling as late in construction schedule as possible to prevent damage during construction.

PART 2 - PRODUCTS

2.1 MATERIALS
A. Panels: Fiberglass reinforced plastic (FRP) panel system.
   1. Basis of Design: Marlite as indicated in Finish Legend.
2. Additional Acceptable Manufacturers:
   a. Kemlite Company.
   b. Sequentia, Inc.
   c. Nudo Products, Inc.

3. Thickness: 0.090" nominal thickness.

4. Fire-Rating: Class III (UL Class C), maximum 200 flame spread, 450 smoke developed, ASTM E81.

5. Surface: Smooth surface.


B. Primer: Provide non-staining nontoxic release coat primer as recommended by wall panel manufacturer where panels are applied to gypsum board.

   1. Primer: Type designed to allow removal of wall paneling from gypsum board without damaging paper facing of board, and without premature separation of wall paneling from wall.

C. Adhesive: Panel manufacturer's standard nontoxic, waterproof adhesive suitable for substrates indicated and for application indicated.

D. Trim Pieces: Manufacturer's standard matching moldings and trim pieces as required for complete, finished installation, and as required for joints, corners and panel edges; suitable for applications indicated.

E. Mechanical Fasteners: Not permitted unless concealed.

PART 3 - EXECUTION

3.1 INSPECTION

A. Ensure surfaces to receive wall paneling are clean, true and free of irregularities, do not commence with work until surfaces are satisfactory.

B. Ensure wall surface flatness tolerance does not vary more than 1/8" in 10'-0", nor vary at a rate greater than 1/16" per running foot.

3.2 INSTALLATION

A. Handle and install wall panels in accordance with manufacturer's recommendations and installation instructions.

B. Install edge moldings at intersection of ceiling and vertical surfaces, using maximum lengths, straight, true to line and level; miter corners.
1. Provide edge moldings at junctions with other finishes and surfaces.

2. Cope and miter trim pieces.

3. Seal edge moldings to walls using white paintable acrylic sealant as specified in Section 07900 - Joint Sealers except use sanitary silicone sealant at floors.

C. Securely adhere panels to wall surfaces; use blind nailing methods as required to support panels until adhesive dries; exposed mechanical fasteners shall not be acceptable.

1. Install panels in maximum size increments available.

D. Remove excess adhesive from edges; wipe seam clean with dry cloth towel.

E. Install wall paneling before installation of plumbing, bases, hardware, and similar accessories.

3.3 CLEANING

A. Clean panel system in accordance with manufacturer's instructions.

B. Remove debris and leave areas neat and clean.

C. Replace accessories.

END OF SECTION