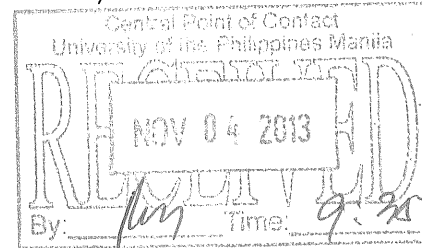




REF. NO. : **WD086NPP10252013**

PROJECT TITLE : **SUPPLY AND INSTALLATION OF STAIR FLOOR TILE AND HANDRAILS**
3rd - 4th Floor, Main and Back Stair, College of Dentistry
University of the Philippines Manila

SUBJECT : **SCOPE OF WORKS AND SPECIFICATIONS**



Division 1 - General

Section 01000 General Requirements

1. The Contractor shall furnish all materials, equipment, tools, apparatus, appliances, accessories, transportation, labor and supervision required for the complete construction of the subject project, as shown on the drawings and called for in these specifications, ready for use.
2. All Contractors submitting proposal for this project shall first examine the site. All proposals shall take into consideration all such conditions that may affect the work under this contract. The specifications and plans shall form part as one. Anything mentioned on plans and not mentioned on the scope of work and specifications and vice versa shall be properly consulted to the CPDMO Project Architect/Engineer for clarification. Any work or materials not in accordance with the drawings or specifications shall be replaced with new at the Contractor's expense.
3. The Contractor shall coordinate his work with all parties to ensure proper phasing or schedule of works. The Contractor shall engage under him, a registered Engineer or Architect to supervise his work. He shall remain at all times in the construction site.
4. A logbook shall be available at the site. It shall contain the daily activities in the site, including weather condition, delivery, manpower and other matter pertaining to the condition of the project. It will also serve as data for Contractor and the Project Inspector.
5. Identification Card of construction workers and engineer/representative shall be supplied by CPDMO with corresponding fees; it should be worn at all times while inside the building/campus premises. Those without IDs shall not be allowed to enter for security purposes.
6. No alteration or addition that will result in an additive or deductive cost change from the contract shall be allowed without the approval of the Office of the Chancellor / Vice Chancellor for Administration/Accounting.

7. Complete specifications with product sample shall be submitted by the contractor to CPDMO for evaluation. Inspection of the Project Architect/Engineer in-charge of CPDMO and End-users shall be required prior to installation of any item/material on the work.
8. Regular coordination meeting shall be conducted with CPDMO, Contractor and End-user for proper project monitoring.
9. Existing condition of the work site shall be documented by the contractor and photos shall be taken before commence of work to ensure such status. Any damage on the area s due to the contractor's on going work shall be refurbished at his expense.
10. The Contractor shall provide a complete copy of "As built plans" of the project/unit concerned which shall include all the civil, architectural, plumbing, electrical and other related layouts in 20" x 30" original sheets. It should be properly drawn indicating all the specifications, layouts, tables and necessary data. An initial layout should be submitted in a B4 sheet for checking and approval of Project Architect/Engineer. Final "As built plans" shall be submitted with soft and hard copies.
11. After completion of all works, the Contractor shall promptly remove from the premises all rubbish, trash, debris, and all superfluous building materials and restore all areas that were damaged as affected by the works and leave the site clean to the satisfaction of the Project Inspector or his representative and End-user.
12. All materials removed from the unit shall be properly documented prior to turn-over to the End-user for proper safe keeping.

Division 2 – Site construction

Section 02200 Site Preparation

Mobilization/Demobilization

- This work includes mobilization process, provision for warning signs, including barricades, temporary facilities, temporary fences, warning lights and similar safeguards shall be provided by the Contractor as they required for protection of his manpower and others during the working life of his project.
- Demobilization procedure shall include clearing o the affected areas from all rubbish, trash, debris, and all superfluous building materials and restore all areas that were damaged as affected by by the works and leave the site clean to the satisfaction of the Project Inspector or his representative and End-user.

Section 02230 Site Clearing

- Clear the area from all obstructions or as affected by the works, except those structures indicated on the drawings or designated by the Project/Engineer and End-users to be left standing. It shall be properly protected from incidental damage due to work by the section of suitable barriers upon approval of the project Architect/Engineer and End-users.

- The Contractor shall be responsible for the accuracy of his work and any necessary chiseling, drilling, coring, cutting and patching or other works required due to plugged or misplaced conduit shall be done at the expense of the Contractor including the restoration on the damaged part of the building finish.

Section 02290 Site Monitoring

- Site monitoring shall be a must to the contractor for the effective implementation of the project. Any discrepancies on plans and actual site conditions shall be properly coordinated with the Project Architect/Engineer concerned for verification.
- Regular coordination meeting shall be done between the contractor or its representative and the Project Architect/Engineer concerned at CPDMO.

Section 02500 Utility Services

Utility Service/Consumption

- Provision of electric and water meter shall be included in the quotation to be charged to the contractor's overhead. All utility consumption shall be provided with meters to limit the usage of such during working period.

Division 3- Concrete

Section 03530 Concrete Topping

Materials

- Use Portland cement, which conforms to the requirements of ASTM C-150 Type for normal Portland cement, PNS 7:2000.
- Use fine aggregates, which shall be free from injurious amount of clay loam and deleterious materials and shall conform to ASTM C-33 or C-330.

Application

- 3" Thk. concrete topping on waterproofed areas, ledges, deck shall be slope to drain at 1%.
- Chamfer all terminations on walls to prevent the entry of water.
- Concrete mixture shall be class "A".
- Confer to CPDMO Project Architect/Engineer and End-users for any discrepancies on plan and actual condition on site.

Division 4 – Masonry

Section 04000 Masonry

Materials

- Use Portland cement which conforms to the requirements of ASTM C-150 Type for normal Portland cement.
- Use fine aggregates which shall be free from injurious amount of clay loam and deleterious materials and shall conform to ASTM C-33 or C-330.
- Concrete hollow blocks, 4" and 6", shall be of standard manufacture, machine vibrated, and

shall have fine and even texture, and well defined edges. Mortar, filler and plastering shall be Class "A" mixture.

- Deformed steel bars shall conform to ASTM A-305. It shall be clean and free from loose, rust, scales and any coatings that will reduce bond.
- #16 Tie wire shall be used for rebars connections.

Application

- Provide 6" and 4"CHB wall with 10 mm dia. deformed round bars at 0.60 m on centers bothways. Verify actual location
- Concrete mixture shall be class "A".
- Provide the plastering at 16 mm thk. using class "A" mixture.
- Follow plan for details.

Division 5 – Metals

Section 055213 – Pipe Railings

Scope of Works

- This Item shall consist of fabricate and install metal railing assemblies all stainless stair handrails and metal materials tools, and equipment including labor required in undertaking the proper installation of handrails as shown on the Plans and in accordance with this Specifications.

Materials Requirements

- Stainless stair handrails shall be made of the ff:
 - Tubing : 50 mm (2") diameter, 316 ,Polished
 - Half-ball Rounded End Cap: 316 ,Polished
 - Handrail Brackets: 316 ,Polished

Fasteners

- All mechanical fasteners used in the assembly of stainless steel or aluminum railings shall be manufactured from stainless steel.
- Cement: Hydraulic, ASTM C 595, factory prepared with accelerator.

Handrail Brackets

- [Aluminum] [Bronze] [Stainless steel]; [cast] [extruded] [stamped] [machined]:
Check governing codes for dimensional and structural requirements.

Fabrication

- Form [rail-to-end post connections and] all changes in rail direction by [miter] [radius] elbows.
- Cut material square and remove burrs from all exposed edges, with no chamfer.
- Make exposed joints butt tight and flush.
- Close exposed ends of [pipe] by use of appropriate end cap.
- For posts set in concrete, furnish matching sleeves or inserts not less than 5 inches long.

- Locate intermediate rails [midway] [equally spaced] between top rail and finished floor or center line of tread.
- Verify dimensions on site prior to shop fabrication.

Execution

Preparation

- Supply items to be [cast in concrete] [embedded in masonry] [placed in partitions].

Metal Interaction

- When aluminum components come into contact with dissimilar metals, surfaces shall be kept from direct contact by painting the dissimilar metal with [a heavy coat of a proper primer] [asphalt paint].
- When aluminum components come into contact with cement or lime mortar, exposed aluminum surfaces shall be painted with [heavy bodied bituminous paint] [water-white methacrylate lacquer] [zinc chromate].

Installation

- Install in accordance with shop drawings [and manufacturer's instructions] at locations indicated on the drawings.
- Erect work [square and level,] [horizontal or parallel to rake of steps or ramp,] rigid, [and] free from distortion or defects detrimental to appearance or performance.
- Expansion joints shall be provided as needed to allow for thermal expansion or contraction.

Cleaning

- As installation is completed, wash thoroughly using clean water and soap; rinse with clean water.
- Do not use acid solution, steel wool or other harsh abrasives.
- If stain remains after washing, remove finish and restore in accordance with NAAMM/NOMMA *Metal Finishes Manual*.
- Finish must not be removed from anodized aluminum. Reanodizing can only be done by removing railing and returning it to the anodizer.

Repair of Defective Work

- Remove stained or otherwise defective work and replace with material that meets specification requirements.
- Repair damaged finish as directed by CPDMO Architect
- Replace defective or damaged components as directed by CPDMO Architect.

Division 6 – Wood

Section 06100 Rough Carpentry

Scaffoldings

- Provide sample for approval. Appropriate scaffoldings and related framing system shall be the contractor's account.

Division 9 – Finishes

Section 09600 Flooring

Scope of Works

- This Item shall consist of furnishing all porcelain stair tiles and cementitious materials tools, and equipment including labor required in undertaking the proper installation of stair riser and thread floor tiles as shown on the Plans and in accordance with this Specifications

Materials Requirements

- Porcelain stair tiles shall be made of the ff:
 - Chip Size : 300 mm X 300 mm
 - Thickness: 10mm
 - Surface Treatment : Unglazed Tile
 - Water Absorption Rate : $0.5\% < E \leq 3\%$
 - Type : Interior Tile
 - Feature : Non-slip, Wear-resistant
 - QMS : ISO9001:2008
 - Quality Grade : AAA

Surface Preparation

- Mortar mix for scratch coat and setting bed shall consist of one part. Portland cement $\frac{1}{4}$ part lime and 3 parts sand by volume.
- Surface to receive tile must be level, true to elevation, dry, free from dirt, oil and other kinds of ointments.
- Allow at least seven (7) days curing of scratch coat and setting bed. Installation work shall not be allowed to proceed until unsatisfactorily conditions are corrected
- Thoroughly dampen surfaces of masonry or concrete before scratch coat is applied.
- On masonry surface apply first a thin coat with pressure, then bring it out sufficiently to compensate for the major irregularities of the surface to a thickness not less than 10 mm at any point.
- Evenly rake the scratch coat to provide good mechanical key before the mortar mix has fully hardened.

Installation of Porcelain Stair Tiles

- Before the tile laid to the stair floor/landing/thread, surface shall be tested for levelness or uniformity of slope by flooding it with water. Area where water ponds are filled and leveled, shall be tested again before the setting bed is applied.
- Establish the lines of borders and center of the wall at the field work in both directions to permit the pattern to be laid with minimum cutting of tiles.

- Clean concrete sub-floor then moisten but do not soak. Then, sprinkle dry cement over the surface and spread the mortar on the setting bed.
- Apply and spread mortar mix for setting bed and tamp to assure good bond over the entire area to be laid with tile
- Pitch floor to drain as shown on plans or as directed by CPDMO Architect.
- Allow the setting bed to set sufficiently, then spread a bond over the surface and lay the tile.

Grouting and Pointing

- Before grouting of joints, tiles shall have been laid in place for at least 24 hours, Grouting mortar shall be white Portland cement or blended with pigments to acquire the color appropriate for the porcelain tiles.
- Grouting mortar shall be applied over the tile by float or squeegee stroke diagonally across the joints
- Remove excess mortar with a wet sponge stroked diagonally or in a circular motion after 12-15 minutes.
- Follow with barely damp or dry sponge to remove remaining haze while smoothing all grouted joints.

Cleaning

- Clean porcelain tiles surface thoroughly as possible upon completion of grouting.
- Remove all grout haze observing tile manufacturer's instructions as to the use of acid or chemical cleansers.
- Rinse tile thoroughly with clean water before and after using chemical cleansers
- Polish surface of tile with soft cloth.

Protection

- Apply a protective coat of neutral cleansers solution diluted with water in the proportion of 1:4 or one liter cleanser concentrate to one gallon of water.
- In addition, cover tile flooring with heavy duty non-staining construction paper, taped in place.
- Just before final acceptance of the work, remove paper and rinse the protective coat of neutral cleaner from the tile surface.
- Do not let protective paper get torn or removed.

Section 09900 Paints and Coatings

Scope of Works

- This Item shall consist of furnishing all paints, enamels, varnishes and other products to be used including labor, tools and equipment required as shown on the Plans and in accordance with this Specification.

Materials Requirements

- Specified materials shall be delivered to the job site bearing manufacturers' name, brand name, type of paint, analysis showing all important constituents of the paint, color of paint and instructions for thinning.
- Specified item and/or its components shall be handled in such manner as to prevent damage. The same shall be properly protected from harmful elements or damage by other work prior to its incorporation into the Project.

- Store materials in a well ventilated space designated for the storage and mixing of paint. Materials delivered to the site shall be properly stored as to minimize exposure to extremes of temperature.

Quality Assurance

- The University reserves the right to subject material samples to test at his expenses. If such material tests do not meet the specified standards, the cost will be charged to the Contractor.
- Number of coats, where specified, is minimum. Contractor shall apply as many as required to meet specifications for solid, uniform appearance. Where film thickness in mils is specified, spot checks will be made to determine compliance with specified thickness.

Submittals

- Submit 2 samples of each and every color or finish (including all coats). Where the same color or finish is to be applied over different materials, samples of each shall be submitted on different materials, where practical.
- Sample size shall be a minimum of 150 mm x 150 mm (6" x 6").

Protection

- Paint materials shall be properly protected from damage, providing for adequate storage space. Take all necessary precautions to prevent fire, such as keeping oily rags in U. L. approved metal containers or removing from building at the end of each day's work.
- All work fittings, furniture, etc., are to be suitably protected during execution of the work. Splashes on floors, walls, etc. are to be removed during progress of work and on the whole, left clean and perfect upon completion.
- No exterior or exposed painting shall be carried out under adverse weather conditions, such as extremes of temperature, during rain, fog, etc., or if there is excessive dust in the air.

Lead Content And Warning Labels

- The material manufacturer shall state the lead content on the label of any paint product container based on metal percentage of total solids.
- The label of any paint product exceeding 0.5% lead content shall include the following statement: "This paint contains more than 0.55 lead content and shall not be used on surfaces accessible to children."

Repair of Defective Work

- All defective or damaged work shall be restored to initial condition.
- All voids, cracks, nicks, etc., will be repaired with proper patching material and finished flush with surrounding surfaces.
- Marred or damaged shop coats on metal shall be spot-primed with appropriate metal primer.
- Defective or damaged items and/or components, which cannot be repaired or restored to initial conditions, shall be removed and replaced to the satisfaction of the Architect at no additional cost to the Owner.

Cleaning

- Upon completion of the building, the Painting Contractor shall remove all paint spots from all finished work, remove all empty cans and leave the entire premises free from rubbish or other debris caused by his work. He shall remove

his equipment from the premises. He shall clean off all glass free from paint spots and smears and shall present the work clean and free from all types of blemishes.

Products *General*

- Materials are specified to establish the standards of grade and quality desired for the work, principal pigments and vehicle types and minimum percentage of solids content by volume.
- The products of Manufacturers not named may be submitted for use provided they are equal in quality and grade to the primers and finishes specified as approved by the Architect. If substitute paint products are desired, a statement shall be submitted to the Architect giving the Manufacturers name, proposed primer and finish for each paint system, analysis for each type of paint, and the use or uses Intended. Failure to submit such statements will be cause for rejection.
- In cases where the name of a brand or supplier is mentioned under a particular specification, only paint or primer of that manufacturer is acceptable and no substitution shall be permitted on the grounds that the brand specified is not available in the local market. Materials of one manufacturer shall not be applied over that of another, except in the case of shop primer coat.

Color, Gloss And Texture

- Refer to Finish Schedule. All work is to be completed without deviation from these unless written approval is received from the Architect. No extra cost shall be allowed because of the color variety scheduled.

EXECUTION

GENERAL

- Work-in-place, on which specified work is to be applied, shall be examined to insure that conditions are satisfactory for application of specified materials. Any defect, which may influence satisfactory completion of specified work, shall be report, in writing, to the Architect. Absence of such notification will be construed as acceptance of work-in-place.
- Do not apply exterior paint in damp or rainy weather or until surfaces have thoroughly dried from the effects of such weather.
- Before start of painting, remove finish hardware, accessories, plates, lighting fixtures, and similar items, as approved by the Architect, except UL Labels on Fire Door and Frames, which must not be removed. Use only workmen skilled in the applicable building trade for removal and reinstallation of finished item in-place .
- The following items shall be masked or protected with suitable covering:

- Sealing, caulking and glazing compounds (unless otherwise directed by the Architect).
- Glass.
- Gauges, thermometers and other recording devices.
- Moving parts of machinery and other mechanical equipment - such as: shafts, couplings, valve stems, and the like.
- Coated decorative sheet metal work.
- Sprinkler heads and the like.
- U.L. Labels

Surfaces Preparation As Applied To Various Substrate

Metal:

- New Surface:
 - Surface to be painted should be clean and dry, free from oil, grease, dust, dirt, wax, solder flux and other contaminants by wiping with mineral spirits or paint thinner.
 - Remove rust by wire brushing, sanding or scraping.
 - Where maximum performance of protective coatings is necessary (e.g. Industrial Plants), prepare surface by blast cleaning.

Concrete:

- New Surface:
 - Surface to be painted should be clean and dry, free from oil, grease, dust, dirt, contaminants and all loose dirt or mortar.
 - Treat with Masonry Neutralizer. Mix (1) liter of neutralizer with (16) liters of water. Apply liberally by brush and let dry overnight.
 - Rinse with water to remove white crystals that form on the surface. Let dry.

Caulking:

- Oil-Based caulking compound surfaces to be painted shall be prepared by removing all foreign materials.

Paint Application

- GENERAL: Specified work shall be done by skilled painters in a workmanlike manner. All spaces shall be broom-cleaned before painting is started. Surface to be painted shall be clean, dry, smooth and adequately protected from dampness. Each coat of paint shall be allowed to dry at least twenty-four (24) hours before succeeding coat is applied. Finish work shall be uniform, of approved color, smooth and free from runs, sags, defective coverage, clogging or excessive flooding. If surfaces are not adequately covered, as determined by the CPDMO Architect/Engineers/Inspectors, further coat shall be applied to the satisfaction of the CPDMO Technical Group. Edges of paint adjoining other materials or colors shall be sharp and clean without overlapping.
- PAINT MIXING: Paint mixing and thinning shall be done only in accordance with directions of Manufacturer. Paint must be strained free from all skin and extraneous substances and shall be thoroughly mixed in a clean container during use.

- **METHODS OF APPLICATION:** Exterior first coats and Interior first coats shall be applied by brush, except on shop-primed surfaces, which shall be applied by brush or roller. All primer shall be applied by brush. Succeeding coats over field-primed surfaces and all coats over shop-primed surfaces may be applied by brush roller or spray. Distemper brushes are to be of approved type and less than 15 cm in width. Rollers for applying enamel shall have a short nap. Spray equipment shall be as recommended by the manufacturer of the paint used. Areas inaccessible to spray painting shall be coated by brushing or suitable method.
- **COATING:** Consecutive coats of paints are to be slightly differing tints except in the case white. Each coat shall be allowed to harden before the next is applied. Rubbing down between coats is to be done with fine abrasive paper.
- **WOOD FINISHING:** Wood to have natural satin varnish finish shall be stained as required and sealed as soon as such Items are delivered to the job site. Seal all ends to exclude moisture. Knotting shall be carried out by using shellac dissolved in spirit or approved ready mixed compound.
- **DEFECTS IN MASONRY, CONCRETE, PLASTER AND FIBER CEMENT BOARD:** Small cracks, holes, and other similar imperfections in masonry, concrete and plaster surfaces, which show up after the prime-sealer has been applied to the surface, shall be filled with an approved sparkling compound before application of succeeding coats.
- **WOODWORK AND METALWORK:** Primed or undercoated woodwork and metalwork shall not be left in an exposed or unsuitable situation for an undue period before completing the painting process. Stopping and filling shall be deemed to be included for all metal works, plaster works, and wood work specified to be used to produce a surface ready for priming and painting.
- **FINAL TOUCH-UPS:** Upon completion, finish work shall be touched-up and restored where damaged and left in good condition.

Painting Schedule

General

- Painting Systems shall be applied to surfaces as scheduled. All walls to be painted shall be plastered prior to painting. All under slabs to be painted shall have fair-faced concrete.
- **FILM THICKNESSES:** As recommended by paint manufacturer for the paint specified, includes thickness in mils and number of coats.

Schedule

Masonry and Dry Wall Surfaces

- Interior Surfaces

Textured Finish (flat, semi – gloss, gloss paint). Treat with masonry neutralizer.

1st Coat : Acrytex Primer

Putty : Acrytex Cast
2nd & 3rd Coat : Acrytex Topcoat

NOTE

The foregoing list of item of works does not in anyway limit the responsibility of the Contractor to perform all other works necessary for the completion of the project.

GUARANTEE

The Contractor shall guarantee all works under this contract to be free from any technical, mechanical and electrical defects and shall replace and repair to the satisfaction of the Project Architect / Engineer and/or to the Chief of CPDMO on any part or portion of the work which may fail within a period of one (1) year after the final acceptance of the system provided such failure is due to defects in the material or workmanship.

COMPLETION PERIOD

The Contractor is given **Forty Five (45) calendar days** to execute the renovation/construction works including the installation all system requirements. The Contractor shall coordinate to the CPDMO Inspector and End-users for the schedule of testing of systems and other related job.

Prepared by:



ARCH. LEONARD P. CORDERO
Administrative Officer V

Certified Correct:



ARCH. ALLEN R. BUENAVENTURA, MCM
Chief, CPDMO

Recommending Approved:


VICENTE O. MEDINA III, DDM, PhD
Dean, College of Dentistry


CHARLOTTE M. CHIONG, MD, PhD
Vice Chancellor for Planning & Development

Approved:


JOSELITO C. JAMIR, MD
Vice-chancellor for Administration



BID PROPOSAL FORM

PROJECT TITLE : **SUPPLY AND INSTALLATION OF STAIR FLOOR TILE AND HANDRAILS**
 3rd - 4th Floor, Main and Back Stair, College of Dentistry
 University of the Philippines Manila

NAME OF BIDDER : _____

TOTAL LUMP SUM BID _____ **PhP** _____

ITEM	QTY.	UNIT(S)	DESCRIPTION(S)	UNIT COST	TOTAL COST
1.00 GEN. REQ'Ts. / SITEWORKS					
1.01 Mobilization/Demobilization					
_____		T.L.	Mobilization & Demobilization	PhP _____	PhP _____
_____		T.L.	Haul Debris/Excess Materials	_____	_____
			Sub-Direct Cost	_____	PhP _____
1.02 Bonds & Insurances					
_____		pax	Workers Insurance/Clearance /IDs	_____	_____
			Sub-Direct Cost	_____	PhP _____
1.03 Temporary Facilities					
_____		lot	Bunkhouse / Warehouse (Rental)	PhP _____	PhP _____
_____		lot	Toilet Facilities	_____	_____
_____		set(s)	Personal Protective Equipment (Hard hats,Dust mask,safety gloves,eye protections & other protective equipment)	_____	_____
_____		Mo(s)	Electricity	_____	_____
_____		Mo(s)	Water	_____	_____
			Sub-Direct Cost	_____	PhP _____
			Total for General Requirements / Siteworks	_____	PhP _____
2.00 STRUCTURAL WORKS					
2.01 Masonry Works					
_____		pc(s)	150mm(6") CHB w/ rebars including mortar & plaster	_____	_____
_____		bag(s)	150mm x 200mm x 400mm CHB	PhP _____	PhP _____
_____		cu.m.	40 kg. Cement	_____	_____
_____		pc(s)	Sand	_____	_____
_____		kg(s)	10 mm Ø Def. Bars	_____	_____
_____		lot	Ga. 16 G.I. Wire	_____	_____
_____			Equipment and Tools (Rental)	_____	_____
			Material Cost	_____	PhP _____
			Labor Cost	_____	% _____
			Sub-Direct Cost	_____	PhP _____
			Total for Structural Works	_____	PhP _____
3.00 ARCHITECTURAL WORKS					
3.02 Wall Finishes					
_____		gal(s)	Acritex Primer	PhP _____	PhP _____
_____		gal(s)	Acritex-Cast	_____	_____
_____		gal(s)	Acritex Topcoat	_____	_____
_____		gal(s)	Acritex Reducer	_____	_____
_____		bag(s)	Skim Coat	_____	_____
_____		gal(s)	Permacoat flat latex	_____	_____
_____		pint(s)	concrete neutralizer	_____	_____
_____		liter(s)	Polytuff w/ hardiner	_____	_____

_____	kg(s)	Patching compound	_____	_____
_____	gal(s)	Paint thinner	_____	_____
_____	pc(s)	#240 Sanding paper	_____	_____
_____	pc(s)	#120 Sanding paper	_____	_____
_____	pc(s)	#100 Sanding paper	_____	_____
_____	pc(s)	2" paint brush	_____	_____
_____	pc(s)	1" paint brush	_____	_____
_____	pc(s)	7" paint roller w/ tray	_____	_____
_____	pc(s)	4" paint roller	_____	_____
_____	pc(s)	4"metal spreader	_____	_____
_____	pc(s)	4"metal scrapers	_____	_____
_____	pc(s)	Steel wire brush	_____	_____
_____	kilo(s)	Cotton rags	_____	_____
_____	pc(s)	Dustmask	_____	_____
		Material Cost		PhP _____
		Labor Cost		_____ % _____
		Sub-Direct Cost		PhP _____

3.01 Floor Finishes

_____	pc(s)	(FF-01) 300 mm X 300 mm x 10 mm Porcelain step tile floor Non-slip,Wear-resistant (Tread)	PhP _____	PhP _____
_____	pc(s)	(FF-02)(W) 300 mm X 300 mm x 10 mm Porcelain step tile floor Non-slip,Wear-resistant (Tread)	_____	_____
_____	pc(s)	(FF-03)(W) 300 mm X 300 mm x 10 mm Porcelain step tile floor Non-slip,Wear-resistant (Riser Landing)	_____	_____
_____	pc(s)	(FF-04)(W) 300 mm X 300 mm x 10 mm Porcelain step tile floor Non-slip,Wear-resistant (Riser Landing)	_____	_____
_____	bag(s)	Tile Adhesive (25kg)	_____	_____
_____	bag(s)	Tile Grout (5 kg)	_____	_____
_____	bag(s)	40 kg. Cement	_____	_____
_____	cu.m.	Sand	_____	_____
_____	lot	Equipment and Tools (Rental)	_____	_____
		Material Cost		PhP _____
		Labor Cost		_____ % _____
		Sub-Direct Cost		PhP _____

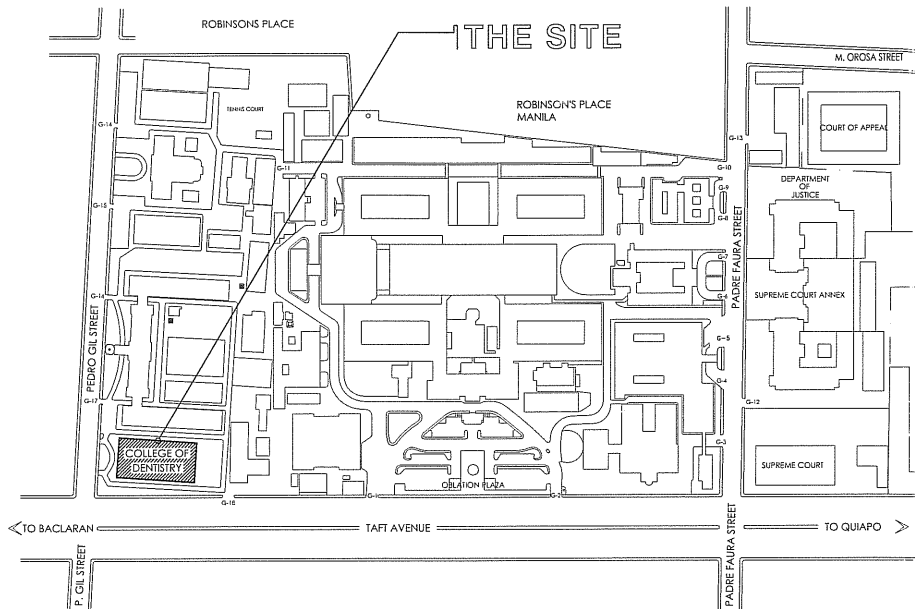
3.02 Metal & Specialty Works

_____	lot	50 mmØ Stainless stair handrails w/ accs.	PhP _____	PhP _____
_____	lot	Power Tools & Consummables	_____	_____
		Sub-Direct Cost		PhP _____
		Total for Architectural Works		PhP _____

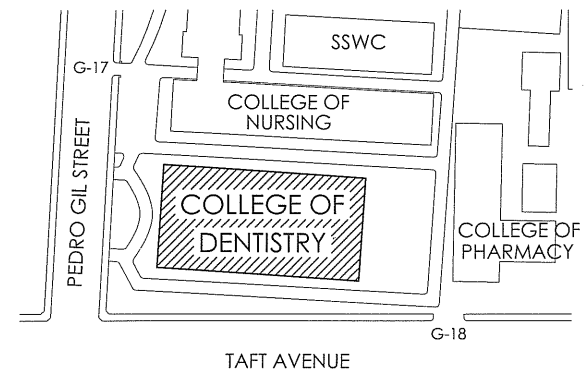
SUMMARY

1.00	GEN. REQ'Ts. / SITEWORKS			PhP _____
2.00	STRUCTURAL WORKS			_____
3.00	ARCHITECTURAL WORKS			_____
		Total Materials and Labor Cost		PhP _____
		Overhead Cost	@ _____ %	_____
		Tax	@ 12.00%	_____
		Sub-total Cost		PhP _____
		TOTAL BID COST		PhP _____


PREPARED BY : _____
 Signature over Printed Name & Position/Designation _____ Date _____



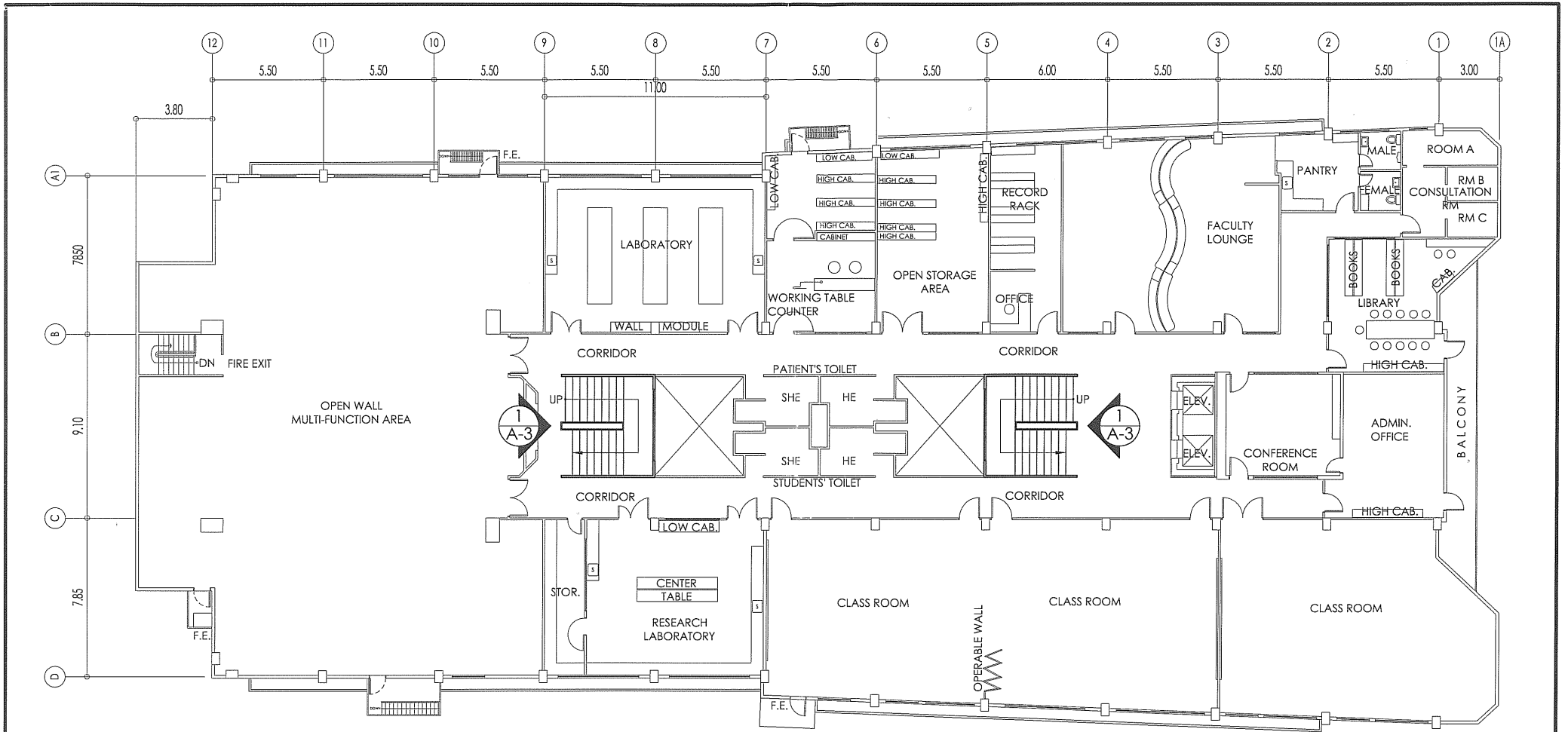
1 SITE DEVELOPMENT PLAN
A-1 NOT TO SCALE



2 LOCATION PLAN
A-1 NOT TO SCALE

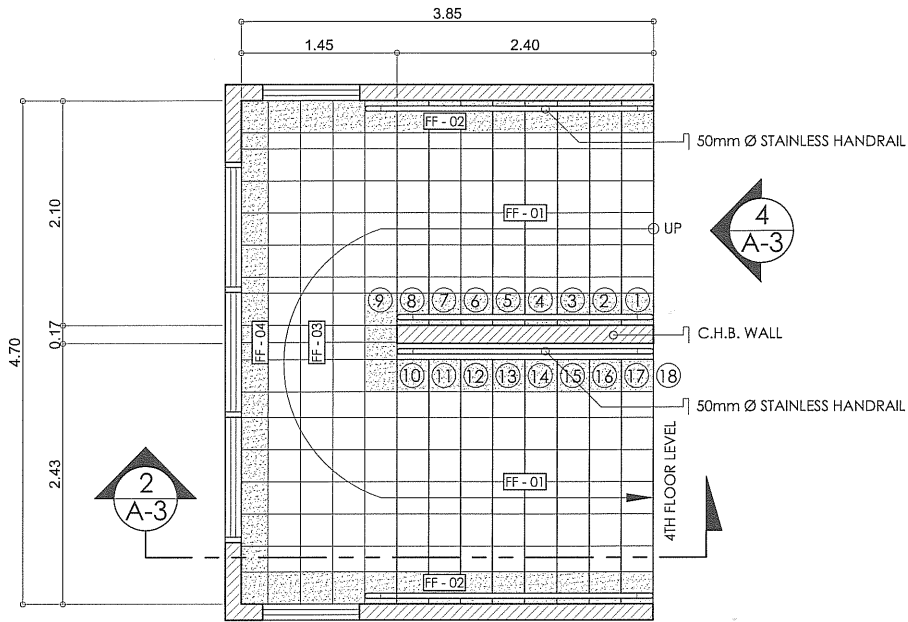
 <p>CPDMO CAMPUS PLANNING DEVELOPMENT & MAINTENANCE OFFICE P. Faura Street, Ermita, Manila Tel. No. 525-2233 Telefax No. 525-8420 U.P. MANILA</p>	<p>CERTIFIED CORRECT:</p> <p>ARCH. ALLEN R. BUENAVENTURA CHEF, CPDMO</p>	<p>PROJECT TITLE:</p> <p>PROPOSED SUPPLY AND INSTALLATION OF STAIR FLOOR TILES AND HANDRAILS THIRD FLOOR TO FOURTH FLOOR, MATH STAR COLLEGE OF DENTISTRY BUILDING UNIVERSITY OF THE PHILIPPINES - MANILA</p>	<p>RECOMMENDING APPROVAL:</p> <p><i>V. O. Medina</i> 4 Nov 2013 VICENTE O. MEDINA III, DDM, PHD DEAN, COLLEGE OF DENTISTRY</p>	<p>APPROVED:</p> <p><i>Jose C. Jamir</i> JOSELITO C. JAMIR, MD, VICE CHANCELLOR FOR ADMINISTRATION</p> <p>14 NOV 2013</p>	<p>SHEET CONTENT:</p> <p>SITE DEVELOPMENT PLAN LOCATION PLAN</p>	<p>DATE ISSUED:</p> <p>DATE REVISED:</p> <p>REVISION NO.:</p> <p>REF. NO.:</p> <p>WDD80NPG09192013 CADD FILE: 11/15/2013 11:02 AM MAIN STAIR-091913</p>	<p>SHEET NO.:</p> <p>A-1</p> <p>1 OF 3</p>
	<p>PREPARED BY:</p> <p>BON ROMASANTA DRAFTSMAN</p> <p>ARCH. LEONARD P. CORDERO ADMINISTRATIVE OFFICER V</p> <p>CADD BY: BON ROMASANTA</p>	<p>APPROVED:</p> <p><i>Charlotte M. Chiong</i> CHARLOTTE M. CHIONG, MD, PHD VICE CHANCELLOR FOR PLANNING AND DEVELOPMENT</p>					

RA 9266 - THIS DRAWING AS AN INSTRUMENT OF SERVICE IS THE PROPERTY OF CPDMO UP MANILA AND SUCH MUST NOT BE REPRODUCED OR COPIED IN OR IN WHOLE WITHOUT PERMISSION.

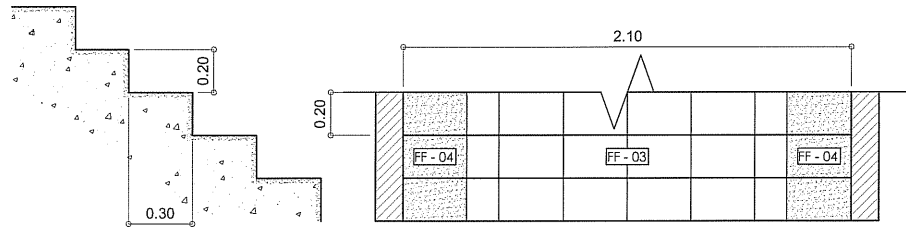


1
A-2
FOURTH FLOOR PLAN
 SCALE 1:200 MTS

 CPDMO CAMPUS PLANNING & DEVELOPMENT & MAINTENANCE OFFICE P. Faura Street, Ermita, Manila Tel. No. 525-2233 Telefax No. 526-6420 U.P. MANILA	CERTIFIED CORRECT: ARCH. ALJEN R. BUENAVENTURA <small>CHEF, CPDMO</small>	PROJECT TITLE: PROPOSED SUPPLY AND INSTALLATION OF STAIR FLOOR TILES AND HANDRAILS <small>THIRD FLOOR TO FOURTH FLOOR, MAIN STAIR COLLEGE OF DENTISTRY BUILDING UNIVERSITY OF THE PHILIPPINES - MANILA</small>	RECOMMENDING APPROVAL: VICENTE O. MEDINA III, DDM, PHD <small>DEAN, COLLEGE OF DENTISTRY</small>	APPROVED: JOSE LITO JAMIR, MD. <small>VICE CHANCELLOR FOR ADMINISTRATION</small>	SHEET CONTENT: FLOOR PLAN	DATE ISSUED: DATE REVISED: REVISION NO.: REF. NO.: WDOBNPG09192013 <small>UPP/2013/CE/010404 CADD FILE: STAIR/FINAL PLANNING MAIN STAIR-091913</small>	SHEET NO.: A-2 2 OF 3
	PREPARED BY: BON ROMASANTA <small>DRAFTSMAN</small>	ARCH. LEONARD P. CORDERO <small>ADMINISTRATIVE OFFICER V</small>	APPROVED: CHARLOTTE M. CHIONG, MD, PHD <small>VICE CHANCELLOR FOR PLANNING AND DEVELOPMENT</small>	DATE ISSUED: 14 NOV 2013			
	RA 9266 - THIS DRAWING AS AN INSTRUMENT OF SERVICE IS THE PROPERTY OF CPDMO UP MANILA AND SUCH MUST NOT BE REPRODUCED OR COPIED IN OR IN WHOLE WITHOUT PERMISSION						

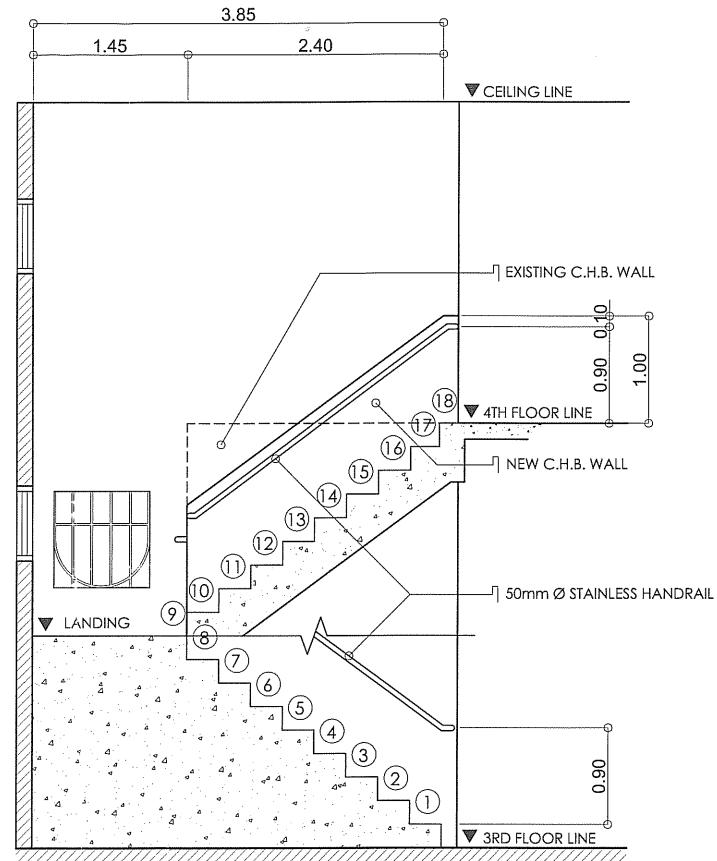


1 DETAILED PLAN
A-3 SCALE 1:50 MTS



3 SPOT DETAIL
A-3 SCALE 1:25 MTS

4 SPOT DETAIL
A-3 SCALE 1:25 MTS



2 DETAILED SECTION
A-3 SCALE 1:50 MTS

LEGEND	SPECIFICATION
FF-01	300 mm x 300 mm PORCELAIN NON SKID STAIR TILES (TREAD)
FF-02	300 mm x 300 mm PORCELAIN NON SKID STAIR TILES (TREAD)
FF-03	300 mm x 300 mm PORCELAIN FLOOR TILES (RISER & LANDING)
FF-04	300 mm x 300 mm PORCELAIN FLOOR TILES (RISER & LANDING)

NOTE:

- SETTING OUT FOR THE INSTALLATION SHOULD BE AT THE CENTER OF THE MAIN ENTRANCE OPENING.
- TILE LAYOUT/PATTERN REFER TO FLOOR FINISHES LAYOUT.
- FOR FLOOR TERMINATION AND JUNCTION OF FLOOR FINISHES REFER TO DETAILS AS SHOWN.
- CONTRACTOR TO ENSURE PROPER LEVELING OF FLOOR SUBSTRATE PRIOR APPLICATION OF FLOOR FINISHES.
- CONTRACTOR TO ENSURE PROPER APPLICATION, TERMINATION AND JUNCTION OF FINISHES TO EXISTING WALL AND FLOOR AS PER BUILDING PROPER STANDARDS.

<p>CPDMO CAMPUS PLANNING DEVELOPMENT & MAINTENANCE OFFICE P. Faura Street, Ermita, Manila Tel. No. 525-2233 Telefax No. 526-8420 U.P. MANILA</p>	<p>CERTIFIED CORRECT:</p> <p>ARCH. ALEN R. BUENAVENTURA CHIEF, CPDMO</p>	<p>PROJECT TITLE:</p> <p>PROPOSED SUPPLY AND INSTALLATION OF STAIR FLOOR TILES AND HANDRAILS THIRD FLOOR TO FOURTH FLOOR, MAIN STAIR COLLEGE OF DENTISTRY BUILDING UNIVERSITY OF THE PHILIPPINES-MANILA</p>	<p>RECOMMENDING APPROVAL:</p> <p>VICENTE O. MEDINA III, DDM, PHD DEAN, COLLEGE OF DENTISTRY</p>	<p>APPROVED:</p> <p>JOSELITO C. JAMIR, MDJ VICE CHANCELLOR FOR ADMINISTRATION</p>	<p>SHEET CONTENT:</p> <p>DETAILED PLAN DETAILED SECTION SPOT DETAIL</p>	<p>DATE ISSUED:</p> <p>DATE REVISED:</p> <p>REVISION NO.:</p> <p>REF. NO.:</p> <p>WDOBONPG09192013</p> <p>CADD FILE: STAIR/FLOOR PLAN/MAIN STAIR-09192013</p>	<p>SHEET NO.:</p> <p>A-3</p> <p>3 OF 3</p>
	<p>PREPARED BY:</p> <p>BON ROMASANTA DRAFTSMAN</p>	<p>ARCH. LEONARD P. CORDERO ADMINISTRATIVE OFFICER V</p>	<p>CHARLOTTE M. CHIONG, MD, PHD VICE CHANCELLOR FOR PLANNING AND DEVELOPMENT</p>	<p>14 NOV 2013</p>	<p>14 NOV 2013</p>		

RA 9266 - THIS DRAWING AS AN INSTRUMENT OF SERVICE IS THE PROPERTY OF CPDMO UP MANILA AND SUCH MUST NOT BE REPRODUCED OR COPIED IN OR IN WHOLE WITHOUT PERMISSION