



City of Santa Barbara

Santa Barbara Airport

www.flysba.com

February 3, 2010

RE: Addendum to RFP for SBA Terminal Art Projects

Administration
805 967 7111

Dear Proposer:

Marketing
805 692.8004

Thank you for your interest in participating in Santa Barbara Airport art projects for the new Airline Terminal.

Engineering
805 692.6018

Attached is an Addendum to the RFP with additional information supplied based on questions asked at the January 20, 2010 Mandatory Pre-Submission meeting and written queries submitted to Rita Ferri, Visual Arts Coordinator, Visual Arts in Public Places.

Maintenance
805 692.6060

The Addendum becomes a part of the official RFP document and is incorporated therein. The period for asking questions has now concluded.

Operations/Noise
805.692.8005

Each artist or artist team submitting a proposal must contain at least one member who attended the Mandatory Pre-Bid Meeting. Eligible attendees are shown on Attachment 1 of the Addendum.

Patrol
805.681.4803

Submissions are due to:

Planning
805 692.6023

**Airport Administration
601 Firestone Road
Santa Barbara, CA 93117**

Property Mgmt.
805 692 6022

no later than 3:00 p.m. PST on February 18, 2010. Submissions received later than 3:00 p.m. may not be considered in the award of the projects.

Visitors' Center
805 964 7622

The Selection Team looks forward to viewing your submissions.

Fax
805 964. 1380

Sincerely,

601 Firestone Rd.
Santa Barbara, CA
93117


Karen Ramsdell
Airport Director

Addendum #1
February 3, 2010

Attached (Attachment 1) is a list of attendees and contact information from the Mandatory Pre-Submission Meeting of January 20, 2010. Airport representatives attending were:

Karen Ramsdell, Airport Director
Fred Sweeney, AIA, PMSM Architects
Ginny Brush, Executive Director, Santa Barbara County Arts Commission
Rita Ferri, Visual Arts Coordinator, Visual Arts in Public Places
Rebecca Fribley, Sr. Property Management Specialist

The single point of contact for all inquiries regarding this RFP is Rita Ferri, Visual Arts Coordinator, who may be contacted at ferri@co.santa-barbara.ca.us or phone.

The RFP is a combination of an RFP and an RFQ. Selection will be based on an artist's recent work and experience and the concept proposed for the selected project. The proposed concept should be included in the not to exceed number of 20 images submitted with the proposal. Any combination of recent work and proposed concept designs is acceptable. The concept is expected to be in rough form, since artists will not be compensated for the time and materials used in preparation of the submission.

The following are responses to questions asked about each project at the Mandatory Pre-Submission Meeting or received in writing.

Project 1: Decorative Wood Beam Stenciling

The beams are currently scheduled to have a dark semi-transparent stain.

1. Attached is a detail of the wood beam ridge detail. (Attachment 2)
2. The type and color of the stain to be used on the beam is shown on Attachment 3.

Project 2: North Rotunda Floor Medallion

1. The floor mat specified for the rotunda area should not be included in the design for the rotunda floor. The mats are of slat construction to make it easy to maintain by replacing individuals slats as needed. An embellished mat would

defeat the purpose of the chosen mats and increase the maintenance costs. The color of the mats has not been determined. Artist may indicate a color preference. However, the final color/material will be approved by the Architect. Selected finishes are shown on Attachment 4 and additional specifications regarding the floor mats are shown on Attachment 5.

2. Color samples of the concrete for the Terminal flooring will be made available. Materials for the floor need to meet the specifications in the RFP. They need to be durable and non-slip. Tile may be used for the rotunda medallion as long as it meets durability and ADA standards and is slip resistant.

3. The medallion cannot be read from a second floor, because the North Rotunda is in the one story portion of the building. The design needs to incorporate the circle – that is the intent of the building’s interior design. The design specifications are for an art piece that fits within a circle. The circle reflects the circle of the rotunda ceiling directly above.

4. The tile selected for the wainscoting is shown on Attachment 6. All interior tile work has been designed and selected and is being supplied by the project contractor.

5. The sky mural on the rotunda ceiling will feature a constellation made of LED lights inset into the ceiling. The ceiling is not funded as a project and is not included in this RFP. The layout of the constellation is shown on Attachment 7.

Project 3: Main Lobby Wrought Iron Railing

1. The basic pickets chosen are square wrought iron pickets set 4” apart on center and 42” high. Current color specified is black, but the artist may suggest another color or finish. The embellishments may be separate pieces to be added to the railing or an integral unit. Any artist or artist team proposing an integral unit must have the necessary experience working wrought iron to fabricate the railing.

2. Because of contractual and liability issues the railings will be made by the current sub-contractor to EMMA, the project’s general contractor.

3. Color copies of the finishes are shown on Attachments 4 and 6 and additional specifications may be found on Attachment 3.

4. Additional specifications may be found on Attachment 8 along with details of the railings. The proposed design element does not need to be a Hibiscus. The Hibiscus was used as an example because it is the City flower.

Finishes/Other Design Elements

1. Photos of the Courthouse lantern are attached (Attachment 9). The dimensions of the lantern are four feet in diameter and seven feet high.
2. A copy of the Islamic Star to be used as a design element in the main lobby is also enclosed for informational purposes (Attachment 10). The star is not part of this RFP.

Viewing Plans and Renderings

The plans and renderings for the Terminal will be available for viewing at the Airport Administration Building at 601 Firestone Road, Santa Barbara, CA 93117, beginning February 4, 2010. Please call 967-7111 to schedule an appointment to view the plans.

Insurance/City Business License

Proposers will not need to meet the insurance and City Business License requirements until their project has been selected. However, applicants may want to research their insurance options in advance. Insurance and the City Business License will need to be provided when the Artist is ready to enter into a contract with the City.

Artist Credit

All artwork will be attributed to the artists selected for each project. Attribution may take the form of any or all of the following: plaques, publication of a brochure detailing the Terminal Art Program, and posting information on the Airport website.

Construction Schedule

The anticipate construction schedule for each of the three art projects outlined below is based upon the contractor's best estimates at this time and will be subject to change depending on several circumstances, particularly an extended period of rain within the next two months.

Stenciling of the Beams – Start late November, 2010. Time window of plus or minus four weeks.


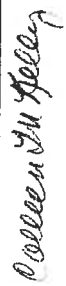

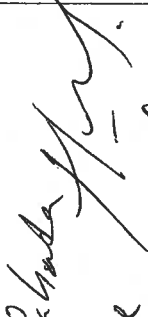

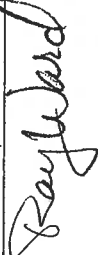
Wrought Iron Railing Embellishment – Start late November 2010. Time window of plus or minus four weeks.

North Rotunda Medallion – Start early December 2010. Time window of plus or minus six weeks.





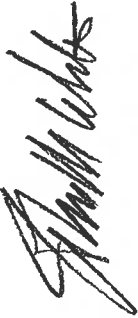
Proposals Due February 18, 2010 by 3:00 PST.

Once all proposals and qualifications have been submitted, a binder containing copies of all entries will be prepared for review by the selection committee members.

ARTISTS MANDATORY PRE-SUBMITTAL MEETING -- SBA TERMINAL ART PROJECTS
AIRPORT ADMINISTRATION BUILDING -- 601 FIRESTONE ROAD
WEDNESDAY, JANUARY 20, 2010

PRINT NAME	SIGNATURE	COMPANY YOUR TITLE MAILING ADDRESS	PHONES / FAX	E-MAIL
1 BRAD NACK		BRAD NACK FINE ART 434 SEA RANCH DR, SANTA BARBARA CA 93109	WORK (805) 845 5389 FAX () CELL (805) 682-2014	BRAD@BRADNACK.COM
2 COLLEEN KELLY		825 W. VICTORIA ST. SB. 93101	WORK (805) 965-7247 FAX () CELL ()	CHKNSB@YAHOO.COM
3 ALFRED RAMIREZ		825 W. VICTORIA ST S.B 93101	WORK (805) 965-7247 FAX () CELL (805) 468-1764	Felwitea15b@gmail.com
4 Rafael Perendez de la Cihada Richard Irvine	 	Irvine Cabada 1515 A EAST VALLEY RD SANTA BARBARA 93108	WORK (805) 452 3455 FAX () - CELL (805) 452 3455	info@irvinecabada.com richard@irvine4@gmail.com
5 Ray Ward		Sante Fe Custom Floors	WORK () FAX () CELL (805) 708-2541	Rayward1@Cox.net



ARTISTS MANDATORY PRE-SUBMITTAL MEETING – SBA TERMINAL ART PROJECTS
AIRPORT ADMINISTRATION BUILDING – 601 FIRESTONE ROAD
WEDNESDAY, JANUARY 20, 2010

PRINT NAME	SIGNATURE	COMPANY YOUR TITLE MAILING ADDRESS	PHONES / FAX	E-MAIL
6 Douglas Lochner		Lochner/Suttmann PO Box 1589 OAKVIEW, VA 93022	WORK (805) 630-7025 FAX () CELL (805) 890-0772	Doug @ Anthatworks.com
7 JOHN SUTTMAN		A SAME	WORK () FAX () CELL (805) 258 9190	JSUTTMAN@EARTHLINKVA
8 BLAKE BANKIN		BLAKE BANKIN STONE SCULPTURE	WORK () FAX () CELL (805) 550 2801	SBOPSOPEN@HOTMAIL.COM
9 Sylvia White		Sylvia White Gallery	WORK (805) 643-8300 FAX () CELL (301) 482-4000	Sylvia@SylviaWhite.com
10 John White		" " "	WORK () FAX () CELL ()	




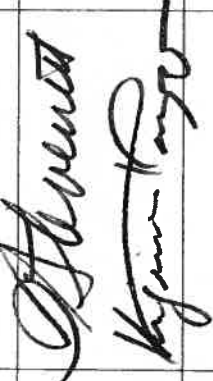

ARTISTS MANDATORY PRE-SUBMITTAL MEETING – SBA TERMINAL ART PROJECTS
AIRPORT ADMINISTRATION BUILDING – 601 FIRESTONE ROAD
WEDNESDAY, JANUARY 20, 2010

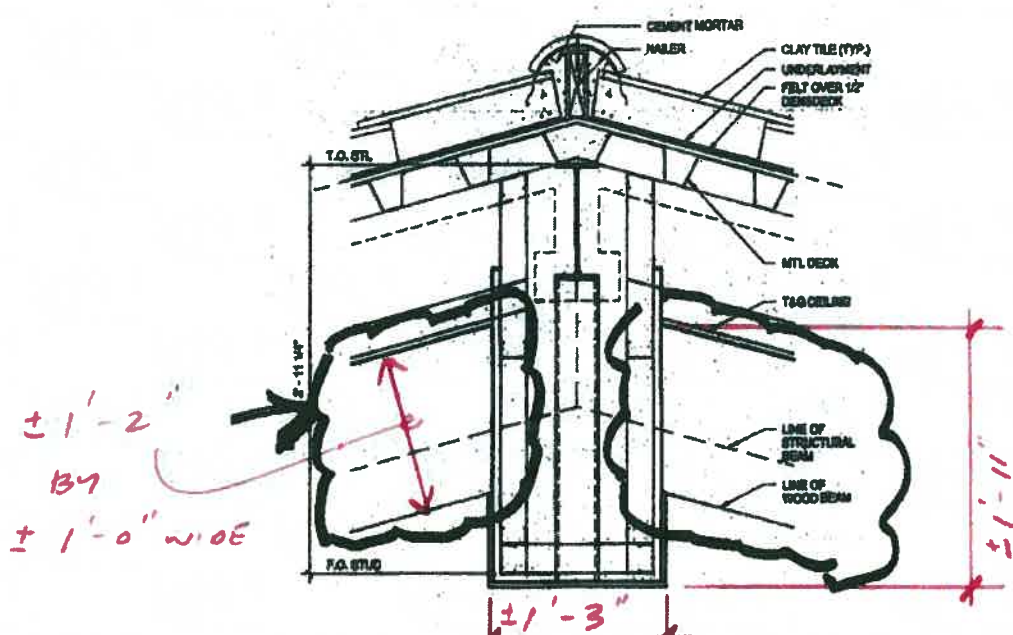
PRINT NAME	SIGNATURE	COMPANY YOUR TITLE MAILING ADDRESS	PHONES / FAX	E-MAIL
11 GLORIA LIGGETT	<i>Gloria Liggett</i>	System Project	WORK (805) 6875898 FAX () CELL ()	gloria.liggett@cox.net
12 STEPHEN FRANCO JR	<i>Stephen A Franco Jr</i>	System Story Cycle Project	WORK (805) 895-1020 FAX () CELL ()	TAXAMA@AOL.COM
13 Jim McAninch	<i>Jim McAninch</i>	Jim McAninch Arts	WORK () FAX () CELL (925) 7086394	Jim@earthlink.net
14			WORK () FAX () CELL ()	
15			WORK () FAX () CELL ()	

ARTISTS MANDATORY PRE-SUBMITTAL MEETING – SBA TERMINAL ART PROJECTS
AIRPORT ADMINISTRATION BUILDING – 601 FIRESTONE ROAD
WEDNESDAY, JANUARY 20, 2010

PRINT NAME	SIGNATURE	COMPANY YOUR TITLE MAILING ADDRESS	PHONES / FAX	E-MAIL
21 BRADNA STEFANIA KATERA		LA BELL'ARTE DECOR	WORK() FAX () CELL (805) 6988482	LABELLARTES@YAHOO.COM
22 EMILIANO CAMPOS ELLO		NEST DESIGN PARTNER 25B W. PAPER ST SANTA BARBARA, CA 93105	WORK() FAX () CELL (805) 284-3419	CONTACT@NESTDZYN.COM NEST DZYN.COM
3			WORK() FAX () CELL ()	
4			WORK() FAX () CELL ()	
5			WORK() FAX () CELL ()	

ARTISTS MANDATORY PRE-SUBMITTAL MEETING - SBA TERMINAL ART PROJECTS
AIRPORT ADMINISTRATION BUILDING - 601 FIRESTONE ROAD
WEDNESDAY, JANUARY 20, 2010

PRINT NAME	SIGNATURE	COMPANY YOUR TITLE MAILING ADDRESS	PHONES / FAX	E-MAIL
26 Lon Etzel		Lon Etzel Sculpture	WORK () FAX () CELL (805) 588-2259	<i>Work Address</i>
27 Leri Ann David		Leri Ann David Design Studios designer/owner 158 Gary Lodge Santa Barbara CA 93105	WORK (805) 569-5009 FAX (805) 569-3302 CELL (805) 452-1397	Leri Ann David <i>Work Address</i>
28 Michelle Griffon		84 D Industrial Way Brentwood CA 93042	WORK (805) 688-9631 FAX () CELL (805) 588-2118	Michelle@mgstudios.biz
29 DIANE STEVENETT Virginia H. Panizzo	 	Facel Decor PO Box 1373, SB, CA 93102	WORK (805) 564-3438 FAX () 568-1178 CELL () 259-5737	diane.stevenett@mac.com vivi.decor@ymail.com vivi-panizzo@yahoo.com
30			WORK () FAX () CELL ()	



± 1'-2"
 BY
 ± 1'-0" WIDE

RIDGE BEAM DETAIL



SCALE: 3/4" = 1'-0"

Santa Barbara Airport Art Projects
 Finish Materials
 1/26/2010

Art Project	Material	Remarks
Wood Beam Stenciling	Stain type: Interior Wood Stain	
	Valspar, Zenith (from Dunn Edwards)	
	Stain color: Mission Oak, LW50760	
Floor Medallion	Floor Matt: C/S Pedisystem	contact: 888.834.4455
	Pedi Tred carpet: Mono tuft 9339 Cocoa	
	Trim color: Bronze	
	Adjacent concrete floor color:	
	PC-1: similar to Brickform Acid Stain,	
	Amber CS-800	
	PC-2: similar to Brickform Acid Stain,	
	Mahogany CS-500	
	Ceiling dome color:	
	Frazee Paints, CL2366A Deuce	
Railings	Rail color: custom color for city of SB:	
	ICI Paint, Malaga Green	



Airline Terminal Improvement Project
Santa Barbara Airport

SECTION 12484

FLOOR MATS AND FRAMES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Entrance mats in recessed frames.

1.3 SUBMITTALS

- A. Product Data: Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.
- B. Shop Drawings: Show the following:
 - 1. Locations and extent of floor mats and recesses in floors.
- C. Samples for Verification: For each type of product indicated.
 - 1. Floor Mat: 12-inch- square, assembled sections of floor mat.
 - 2. Tread Rail: 12-inch- long Sample of each type and color.
 - 3. Frame Members: 12-inch- long Sample of each type and color.
- D. Maintenance Data: For floor mats and frames to include in maintenance manuals.

1.4 QUALITY ASSURANCE

- A. Source Limitations: Obtain floor mats and frames through one source from a single manufacturer.
- B. Accessibility Requirements: Provide installed floor mats that comply with Section 4.5 in the U.S. Architectural & Transportation Barriers Compliance Board's "Americans with Disabilities Act (ADA), Accessibility Guidelines for Buildings and Facilities (ADAAG)," and CBC requirements.

1.5 PROJECT CONDITIONS

- A. Field Measurements: Indicate measurements on Shop Drawings.

Airline Terminal Improvement Project
Santa Barbara Airport

1.6 COORDINATION

- A. Coordinate size and location of recesses in concrete with installation of finish floors to receive floor mats and frames.

PART 2 - PRODUCTS

2.1 ENTRANCE MATS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. C/S Group; Pedisystem, Pedi-Tred Carpet Mats.

2.2 FABRICATION

- A. Floor Mats: Shop fabricate units to greatest extent possible in sizes indicated. Unless otherwise indicated, provide single unit for each mat installation; do not exceed manufacturer's recommended maximum sizes for units that are removed for maintenance and cleaning. Where joints in mats are necessary, space symmetrically and away from normal traffic lanes. Miter corner joints in framing elements with hairline joints or provide prefabricated corner units without joints.
- B. Recessed Frames: As indicated, for permanent recessed installation, complete with corner pins or reinforcement and anchorage devices.
 - 1. Fabricate edge-frame members in single lengths or, where frame dimensions exceed maximum available lengths, provide minimum number of pieces possible, with hairline joints equally spaced and pieces spliced together by straight connecting pins.
- C. Coat surfaces of aluminum frames that will contact cementitious material with manufacturer's standard protective coating.

2.3 ALUMINUM FINISHES

- A. General: Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
- B. Finish designations prefixed by AA comply with the system established by the Aluminum Association for designating aluminum finishes.
- C. Custom powder coat finish to match Architect's samples.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates and floor conditions for compliance with requirements for location, sizes, minimum recess depth, and other conditions affecting installation of floor mats and frames.

Airline Terminal Improvement Project
Santa Barbara Airport

1. Proceed with installation only after unsatisfactory conditions have been corrected.

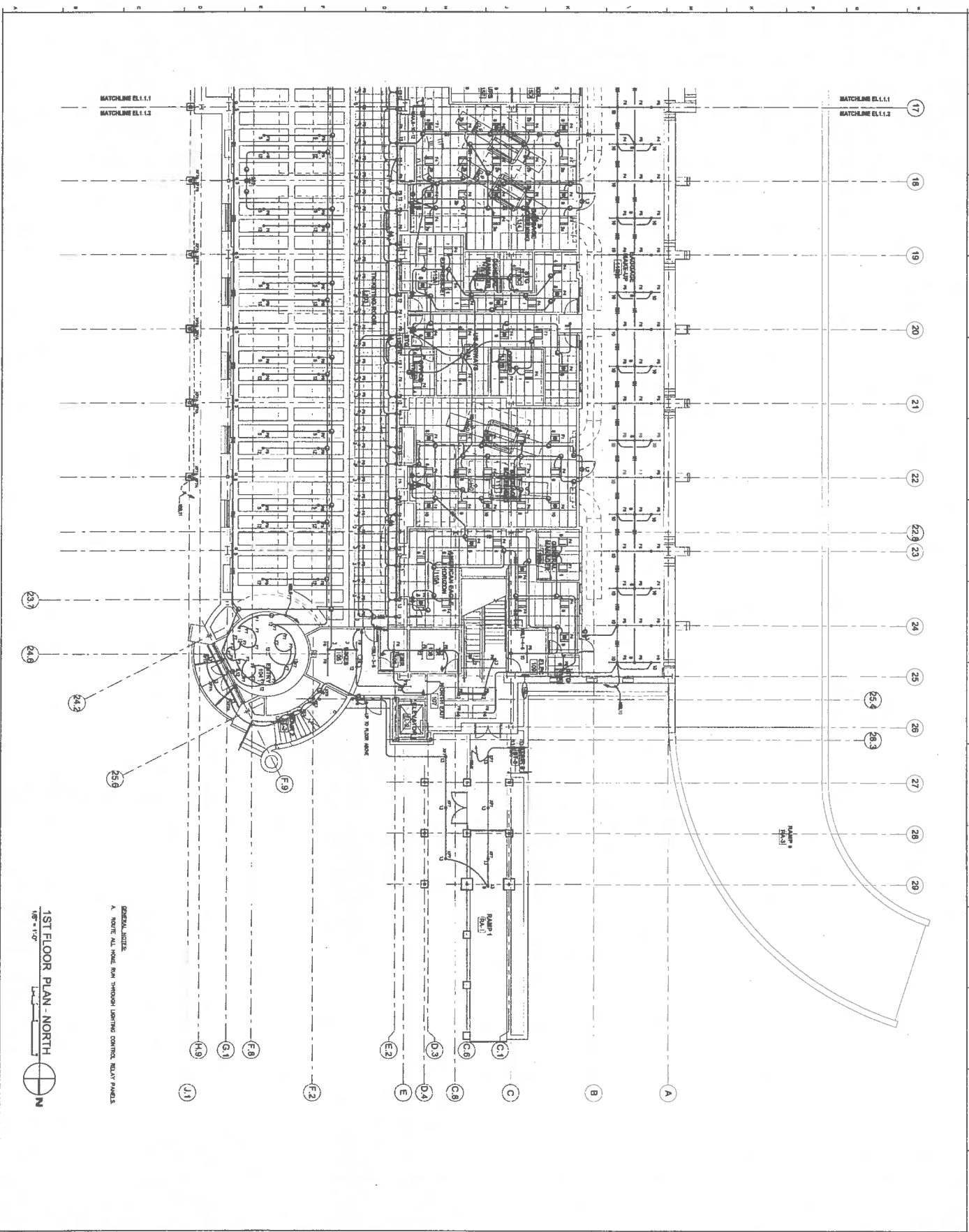
3.2 INSTALLATION

- A. Install recessed mat frames to comply with manufacturer's written instructions. Set mat tops at height recommended by manufacturer for most effective cleaning action; coordinate top of mat surfaces with bottom of doors that swing across mats to provide clearance between door and mat.
 1. For installation in terrazzo flooring areas, provide allowance for grinding and polishing of terrazzo without grinding surface of recessed frames. Coordinate with other trades as required.
 2. Install necessary shims, spacers, and anchorages for proper location and secure attachment of frames.
 3. Install grout and fill around frames and, if required to set mat tops at proper elevations, in recesses under mats. Finish grout and fill smooth and level.

3.3 PROTECTION

- A. After completing frame installation and concrete work, provide temporary filler of plywood or fiberboard in recesses and cover frames with plywood protective flooring. Maintain protection until construction traffic has ended and Project is near Substantial Completion.

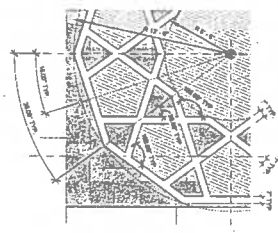
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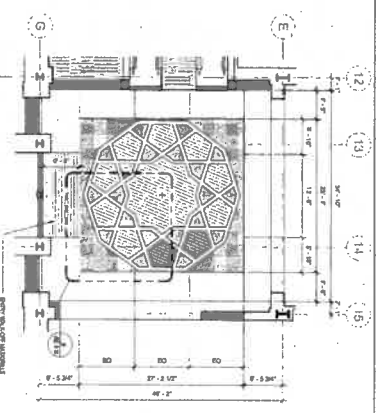
GENERAL NOTE:
A. NOTE ALL HOLE RAN THROUGH LIGHTING CONTROL RELAY PANELS

1ST FLOOR PLAN - NORTH
1/8" = 1'-0"

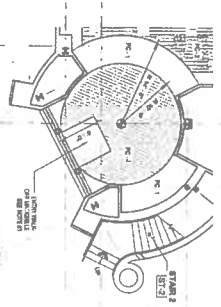
<p>EL.1.1.2</p> <p>SHEET TITLE & NUMBER FIRST FLOOR LIGHTING PLAN NORTH</p> <p>Copyright © 2008</p>	<p>CITY OF SANTA BARBARA PUBLIC WORKS DEPARTMENT - ENGINEERING DIVISION</p> <p>APPROVED: <i>[Signature]</i> DATE: OCT 11 2008 CITY ENGINEER</p> <p>PROJECT NO.</p>	<p>AIRLINE TERMINAL IMPROVEMENT PROJECT SANTA BARBARA MUNICIPAL AIRPORT SANTA BARBARA, CALIFORNIA</p>	<p>HNTB HNTB Architecture The HNTB Companies Planners Engineers Interior Designers Landscape Architects Surveyors 1000 West 10th Street, Suite 1000 Santa Barbara, CA 93101 Tel: 805.963.1000 Fax: 805.963.1010</p>
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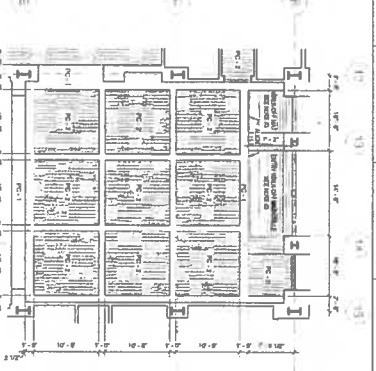
5 PATTERN DETAIL - 101 LOBBY
 1/8" = 1'-0"



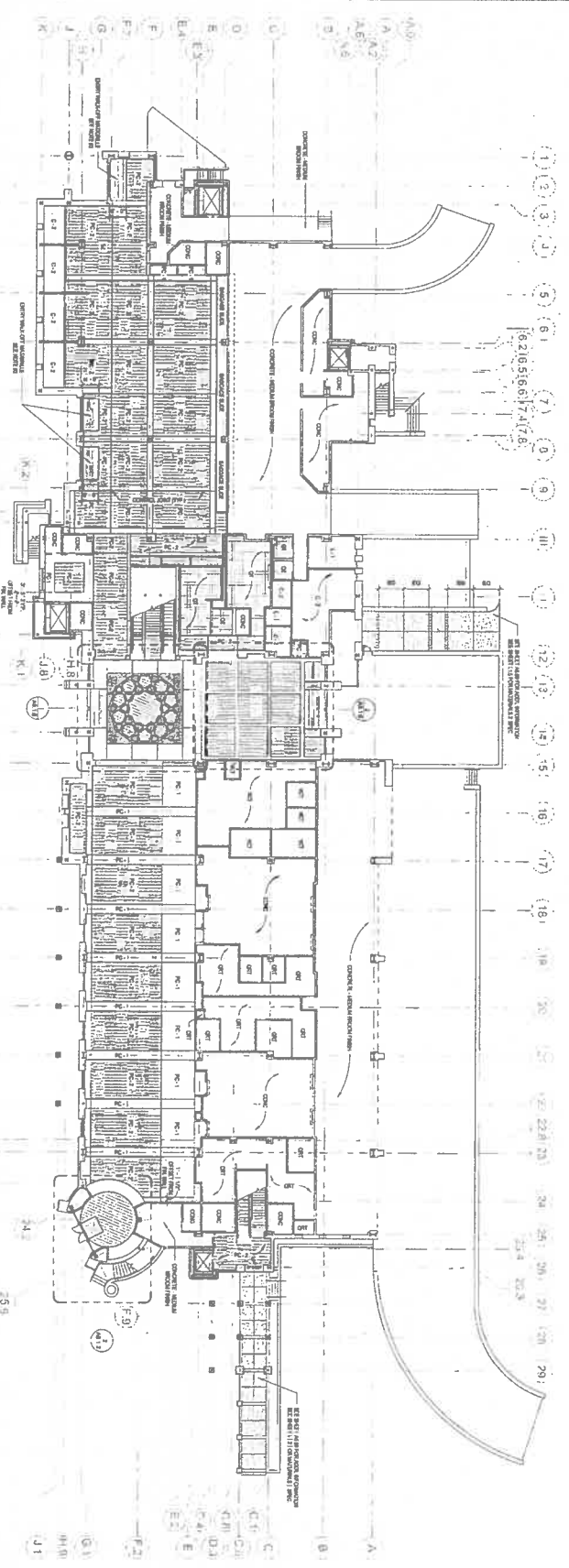
4 ENLARGED FLR FIN PLAN - 101 LOBBY
 1/8" = 1'-0"



3 ENLARGED FLR FIN PLAN - 104 ENTRY
 1/8" = 1'-0"



2 1ST ENLARGED FLR FIN PLAN - ROOM 117 & 118
 1/8" = 1'-0"



1 FINISH PLAN
 1/8" = 1'-0"

COLOR LEGEND

NO. 100 CONC. NC-1	CONC.
NO. 101 CONC. NC-1	CONC.
NO. 102 CONC. NC-1	CONC.
NO. 103 CONC. NC-1	CONC.
NO. 104 CONC. NC-1	CONC.

LEGEND

CONC.	CONCRETE
GR	GRAVEL
SI	SLAB
SI-1	SLAB 1
SI-2	SLAB 2
SI-3	SLAB 3
SI-4	SLAB 4
SI-5	SLAB 5
SI-6	SLAB 6
SI-7	SLAB 7
SI-8	SLAB 8
SI-9	SLAB 9
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SI-50	SLAB 50

NOTES

1. SEE NOTES ON SHEET A9.1.1 FOR FINISH SCHEDULE.
2. SEE NOTES ON SHEET A9.1.2 FOR FINISH SCHEDULE.
3. SEE NOTES ON SHEET A9.1.3 FOR FINISH SCHEDULE.
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CITY OF SANTA BARBARA
 PUBLIC WORKS DEPARTMENT - ENGINEERING DIVISION
 APPROVED: *[Signature]* DATE: 07.11.2008
 CITY ENGINEER

AIRLINE TERMINAL IMPROVEMENT PROJECT
 SANTA BARBARA MUNICIPAL AIRPORT
 SANTA BARBARA, CALIFORNIA

HNTB
 HNTB Architecture
 1000 W. SANTA ANITA AVENUE
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Ceramic Accent Tile
Café Tile, Natural Stone
G214 Pasadena



Ceramic Accent Tile
Café Tile, Natural Stone
G214 Pasadena



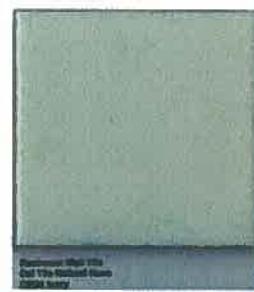
Ceramic Accent Tile
Café Tile, Natural Stone
G214 Pasadena



Ceramic Accent Tile
Café Tile, Natural Stone
G214 Pasadena



Ceramic Accent Tile
Café Tile, Natural Stone
G214 Pasadena



Restroom Wall Tile
Café Tile, Natural Stone
G214 Pasadena



Polished, Matte/Gloss & Glossy
Polished Porcelain
Ceramic Tile
Café Tile, Natural Stone
G214 Pasadena



Decorative Ceramic Tile
Star House 6"x6"
California Pottery & Tile
FD115-A



Tile Floor Molding
California Pottery & Tile



Decorative Ceramic Tile
Star House 6"x6"
California Pottery & Tile, L204



Decorative Ceramic Tile
California Pottery & Tile
Natural Stone, PD-127



Restroom Tile Wetroom
Café Tile, Natural Stone, 4"x4"
New Yorkland, G214 1100



Tile Components
Ceramic Ceramic Industries
MSP Solid Plastics
Color: Green



Decorative Ceramic Tile
Star House 6"x6"
California Pottery & Tile
FD115



Restroom Border Tile
California Pottery
Jeffrey Court, Old California
Santa Fea Tile



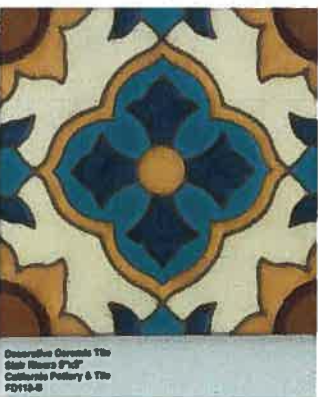
Decorative Ceramic Tile
California Pottery & Tile
PD 174



Restroom Tile Base
Café Tile, Natural Stone, 4"x4"
G214 Pasadena



Restroom Tile Wetroom
Natural Stone
Café Tile, Natural Stone, 4"x4"
G214 Pasadena



Decorative Ceramic Tile
Star House 6"x6"
California Pottery & Tile
FD115-B

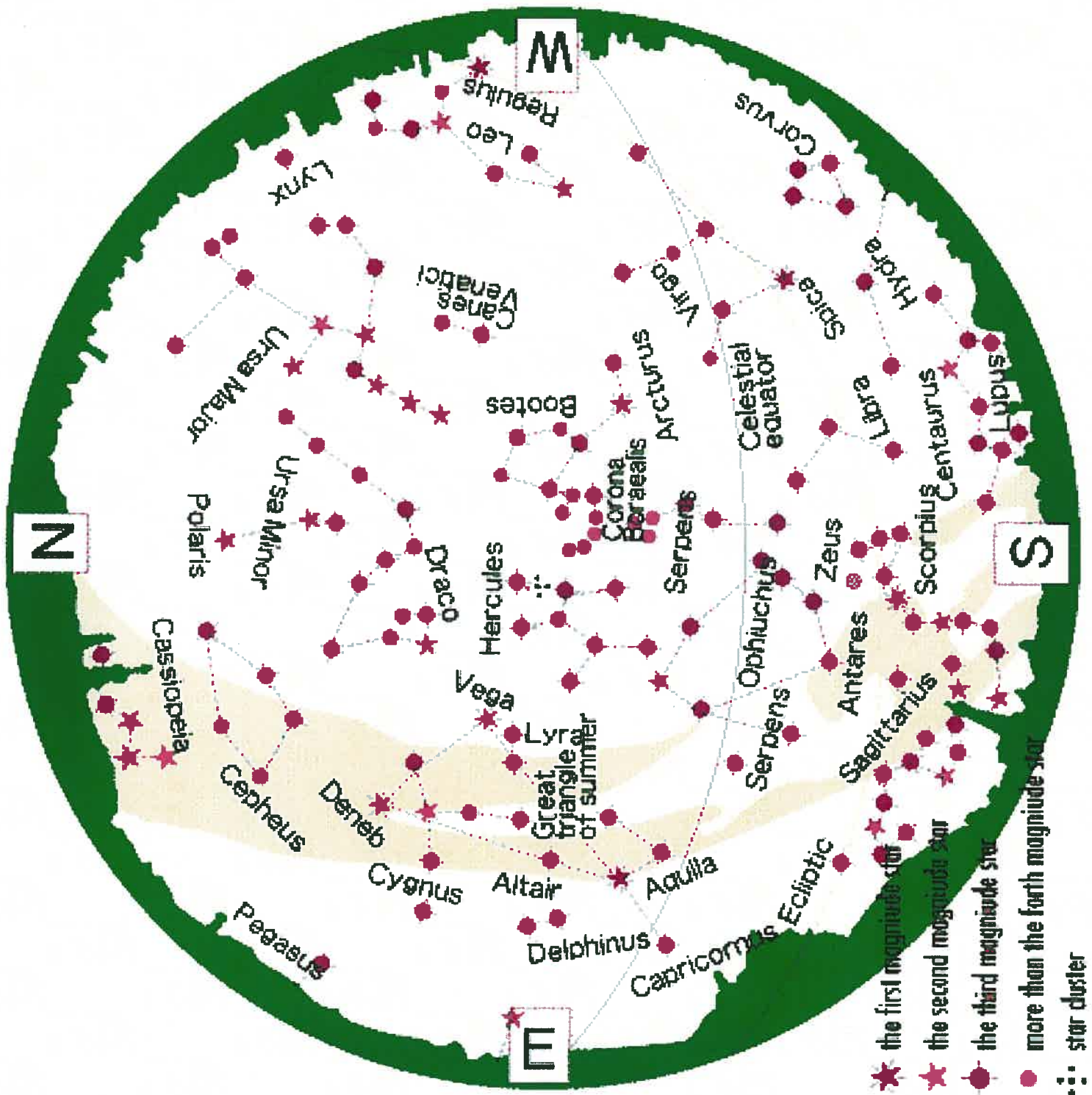


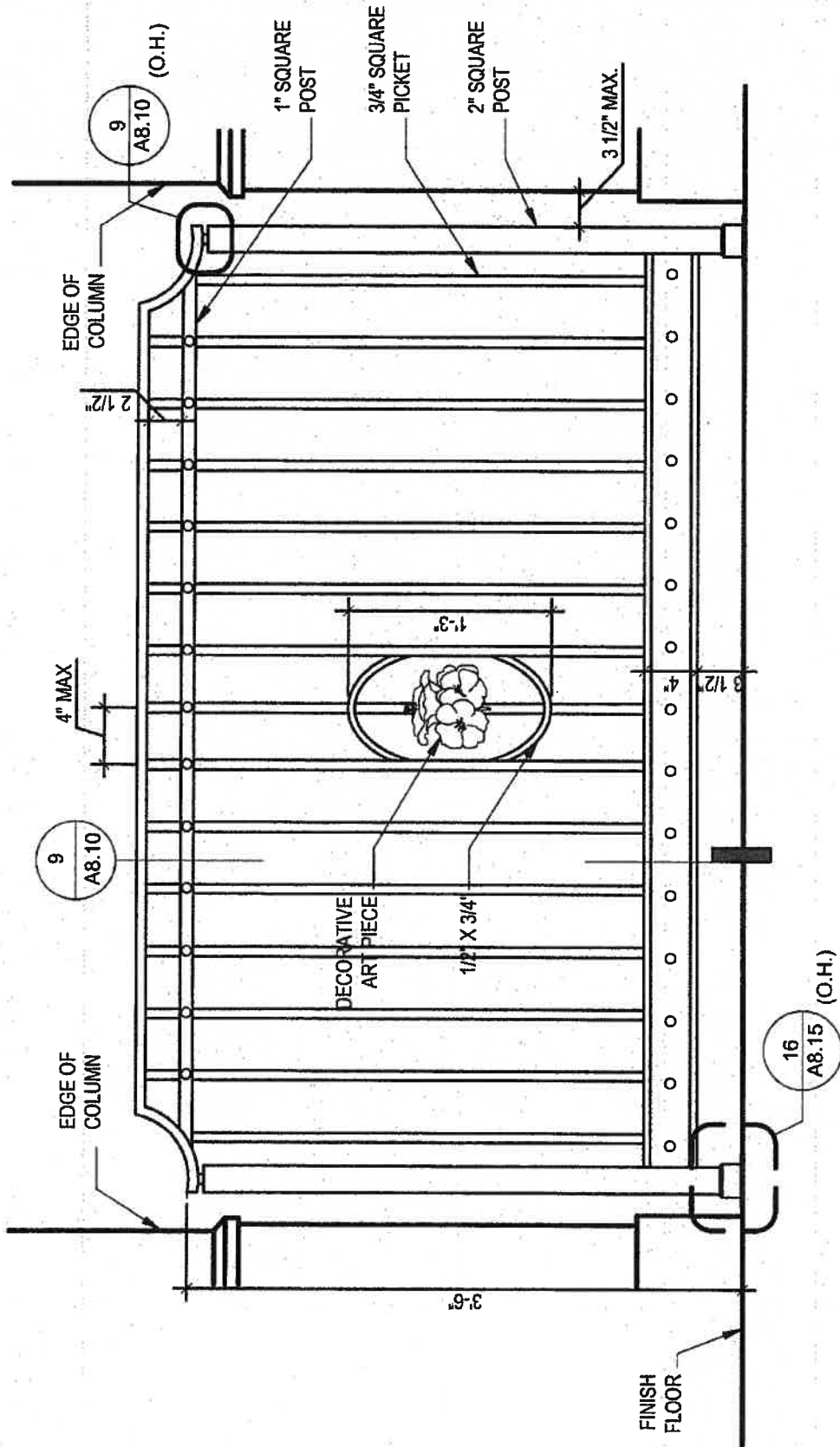
Restroom Floor
Natural Stone
Café Tile, 6"x6"
New Yorkland, G214 1100



Cover Tile @ Dining Room
Historic Terminal
Jeffrey Court, Old California
Chicago, Santa Fea





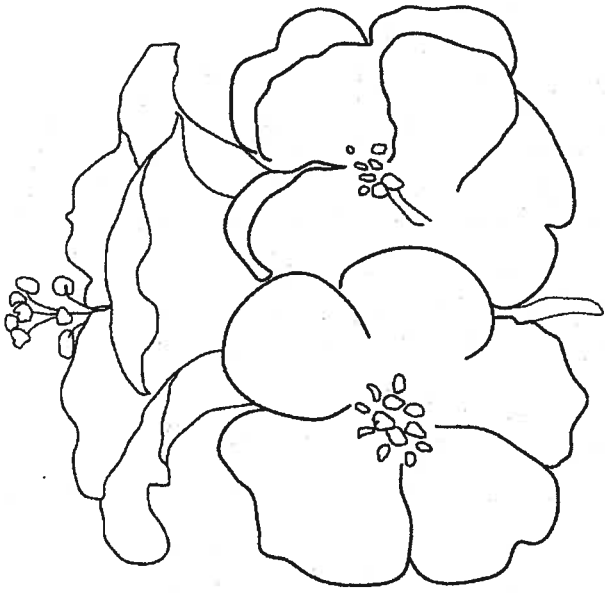


4 GUARD RAIL ELEVATION

1" = 1'-0"

3-114"

11 | 10 | 9



DIMENSIONAL ART WORK
(VERIFY WITH ARCHITECT)

10 GUARD RAIL HIBISCUS DETAIL

1 1/2" = 1'-0"

Airline Terminal Improvement Project
Santa Barbara Airport

SECTION 05721

ORNAMENTAL RAILINGS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Steel and iron decorative railings.
 - 2. Infill panels.

1.3 DEFINITIONS

- A. Railings: Guards, handrails, and similar devices used for protection of occupants at open-sided floor areas, pedestrian guidance and support, visual separation, or wall protection.

1.4 PERFORMANCE REQUIREMENTS

- A. Delegated Design: Design railings, including comprehensive engineering analysis by a qualified professional engineer, using performance requirements and design criteria indicated.
- B. General: In engineering railings to withstand structural loads indicated, determine allowable design working stresses of railing materials based on the following:
 - 1. Steel: 72 percent of minimum yield strength.
- C. Structural Performance: Railings shall withstand the effects of gravity loads and the following loads and stresses within limits and under conditions indicated:
 - 1. Handrails and Top Rails of Guards:
 - a. Uniform load of 50 lbf/ft. applied in any direction.
 - b. Concentrated load of 200 lbf applied in any direction.
 - c. Uniform and concentrated loads need not be assumed to act concurrently.
 - 2. Infill of Guards:
 - a. Concentrated load of 50 lbf applied horizontally on an area of 1 sq. ft..
 - b. Infill load and other loads need not be assumed to act concurrently.

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Santa Barbara Airport

- D. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes acting on exterior metal fabrications by preventing buckling, opening of joints, overstressing of components, failure of connections, and other detrimental effects.
 - 1. Temperature Change: 120 deg F, ambient; 180 deg F, material surfaces.
 - E. Control of Corrosion: Prevent galvanic action and other forms of corrosion by insulating metals and other materials from direct contact with incompatible materials.
- 1.5 SUBMITTALS
- A. Product Data: For the following:
 - 1. Manufacturer's product lines of railings assembled from standard components.
 - 2. Grout, anchoring cement, and paint products.
 - B. Shop Drawings: Include plans, elevations, sections, details, and attachments to other work.
 - C. Samples for Verification: For each type of exposed finish required.
 - 1. Sections of each distinctly different linear railing member, including handrails, top rails, posts, and balusters.
 - 2. Each type of infill panel material required.
 - 3. Fittings and brackets.
 - 4. Connections.
 - 5. Assembled Samples of railing systems, made from full-size components, including top rail, post, handrail, and infill. Show method of finishing members at intersections. Samples need not be full height.
 - D. Delegated-Design Submittal: For installed products indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.
 - E. Qualification Data: For qualified professional engineer.
 - F. Welding certificates.

1.6 QUALITY ASSURANCE

- A. Source Limitations: Obtain each type of railing from single source from single manufacturer.
- B. Product Options: Information on Drawings and in Specifications establishes requirements for system's aesthetic effects and performance characteristics. Aesthetic effects are indicated by dimensions, arrangements, alignment, and profiles of components and assemblies as they relate to sightlines, to one another, and to adjoining construction. Performance characteristics are indicated by criteria subject to verification by one or more methods including structural analysis, preconstruction testing, field testing, and in-service performance.
 - 1. Do not modify intended aesthetic effects, as judged solely by Architect, except with Architect's approval. If modifications are proposed, submit comprehensive explanatory data to Architect for review.

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- C. Welding Qualifications: Qualify procedures and personnel according to the following:
 - 1. AWS D1.1/D1.1M, "Structural Welding Code - Steel."
- D. Mockups: Build mockups to verify selections made under sample submittals and to demonstrate aesthetic effects and set quality standards for fabrication and installation.
 - 1. Build mockups for each form and finish of railing consisting of two posts, top rail, infill area, and anchorage system components that are full height and are not less than 24 inches in length.
 - 2. Approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.7 PROJECT CONDITIONS

- A. Field Measurements: Verify actual locations of walls and other construction contiguous with railings by field measurements before fabrication and indicate measurements on Shop Drawings.

1.8 COORDINATION AND SCHEDULING

- A. Coordinate selection of shop primers with topcoats to be applied over them. Comply with paint and coating manufacturers' written recommendations to ensure that shop primers and topcoats are compatible with one another.
- B. Coordinate installation of anchorages for railings. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.
- C. Schedule installation so wall attachments are made only to completed walls. Do not support railings temporarily by any means that do not suit structural performance requirements.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Steel and Iron Decorative Railing Manufacturers: Subject to compliance with requirements, provide products by the basis-of-design manufacturer or provide equivalent products by one of the other listed manufacturers, or equal:
 - 1. Basis-of-Design Manufacturer: Blum, Julius & Co., Inc.
 - 2. Other Manufacturers:
 - a. Architectural Iron Designs, Inc.
 - b. Artezzi.
 - c. Bavarian Iron Works Co.; TT Triebenbacher.
 - d. Braun, J. G., Company; a division of the Wagner Companies.
 - e. Indital USA; a division of Ind.i.a. SPA.
 - f. Lawler Foundry Corporation.
 - g. Livers Bronze Co.
 - h. Olin Wrought Iron.
 - i. Regency Railings.

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- j. Wagner, R & B, Inc.; a division of the Wagner Companies.
- k. Wiemann Ironworks.

2.2 METALS, GENERAL

- A. Metal Surfaces, General: Provide materials with smooth surfaces, without seam marks, roller marks, rolled trade names, stains, discolorations, or blemishes.

2.3 STEEL AND IRON

- A. Recycled Content of Steel Products: Refer to LEED Checklist on Drawings for potential requirements.
- B. Tubing: ASTM A 500 (cold formed) or ASTM A 513.
- C. Bars: Hot-rolled, carbon steel complying with ASTM A 29/A 29M, Grade 1010.
- D. Plates, Shapes, and Bars: ASTM A 36/A 36M.
- E. Cast Iron: Either gray iron, ASTM A 48/A 48M, or malleable iron, ASTM A 47/A 47M, unless otherwise indicated.
- F. Handrail Moldings: Subject to compliance with requirements, provide the following basis-of-design product, or equal:
 - 1. Basis-of-Design Product: Blum, Julius & Co., Inc.; Model No. 4428.
- G. Perforated Metal: Cold-rolled steel sheet, ASTM A 1008/A 1008M, or hot-rolled steel sheet, ASTM A 1011/A 1011M, commercial steel Type B, 0.060 inch thick, with 1/4-inch holes 3/8 inch o.c. in staggered rows.

2.4 FASTENERS

- A. Fastener Materials: Unless otherwise indicated, provide the following:
 - 1. Dissimilar Metals: Type 304 stainless-steel fasteners.
 - 2. Uncoated Steel Components: Plated-steel fasteners complying with ASTM B 633, Class Fe/Zn 25 for electrodeposited zinc coating where concealed; Type 304 stainless-steel fasteners where exposed.
 - 3. Galvanized-Steel Components: Plated-steel fasteners complying with ASTM B 633, Class Fe/Zn 25 for electrodeposited zinc coating.
- B. Fasteners for Anchoring to Other Construction: Select fasteners of type, grade, and class required to produce connections suitable for anchoring railings to other types of construction indicated and capable of withstanding design loads.
- C. Provide concealed fasteners for interconnecting railing components and for attaching railings to other work unless otherwise indicated.
 - 1. Provide Phillips flat-head machine screws for exposed fasteners unless otherwise indicated.

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- D. Anchors, General: Anchors capable of sustaining, without failure, a load equal to six times the load imposed when installed in unit masonry and four times the load imposed when installed in concrete, as determined by testing according to ASTM E 488, conducted by a qualified independent testing agency.
- E. Post-Installed Anchors: Torque-controlled expansion anchors or chemical anchors.
 - 1. Material for Interior Locations: Carbon-steel components zinc plated to comply with ASTM B 633 or ASTM F 1941, Class Fe/Zn 5, unless otherwise indicated.
 - 2. Material for Exterior Locations and Where Stainless Steel Is Indicated: Alloy Group 1 stainless-steel bolts, ASTM F 593, and nuts, ASTM F 594.

2.5 MISCELLANEOUS MATERIALS

- A. Welding Rods and Bare Electrodes: Select according to AWS specifications for metal alloy welded.
- B. Galvanizing Repair Paint: High-zinc-dust-content paint complying with SSPC-Paint 20 and compatible with paints specified to be used over it.
- C. Shop Primers: Provide primers that comply with Division 9 Section "High-Performance Coatings."
- D. Universal Shop Primer: Fast-curing, lead- and chromate-free, universal modified-alkyd primer complying with MPI#79 and compatible with topcoat.
 - 1. Use primer containing pigments that make it easily distinguishable from zinc-rich primer.
- E. Epoxy Zinc-Rich Primer: Complying with MPI#20 and compatible with topcoat.
- F. Intermediate Coats and Topcoats: Provide products that comply with Division 9 Section "High-Performance Coatings."
- G. Epoxy Intermediate Coat: Complying with MPI#77 and compatible with primer and topcoat.
- H. Polyurethane Topcoat: Complying with MPI#72 and compatible with undercoat.
- I. Bituminous Paint: Cold-applied asphalt emulsion complying with ASTM D 1187.
- J. Anchoring Cement: Factory-packaged, nonshrink, nonstaining, hydraulic-controlled expansion cement formulation for mixing with water at Project site to create pourable anchoring, patching, and grouting compound.
 - 1. Water-Resistant Product: At exterior locations provide formulation that is resistant to erosion from water exposure without needing protection by a sealer or waterproof coating and that is recommended by manufacturer for exterior use.

2.6 FABRICATION

- A. General: Fabricate railings to comply with requirements indicated for design, dimensions, member sizes and spacing, details, finish, and anchorage, but not less than that required to support structural loads.
- B. Assemble railings in the shop to greatest extent possible to minimize field splicing and assembly. Disassemble units only as necessary for shipping and handling limitations. Clearly mark units for reassembly and coordinated installation. Use connections that maintain structural value of joined pieces.

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- C. Make up wire-rope assemblies in the shop to field-measured dimensions with fittings machine swaged. Minimize amount of turnbuckle take-up used for dimensional adjustment so maximum amount is available for tensioning wire ropes. Tag wire-rope assemblies and fittings to identify installation locations and orientations for coordinated installation.
- D. Cut, drill, and punch metals cleanly and accurately. Remove burrs and ease edges to a radius of approximately 1/32 inch unless otherwise indicated. Remove sharp or rough areas on exposed surfaces.
- E. Form work true to line and level with accurate angles and surfaces.
- F. Fabricate connections that will be exposed to weather in a manner to exclude water. Provide weep holes where water may accumulate. Locate weep holes in inconspicuous locations.
- G. Cut, reinforce, drill, and tap as indicated to receive finish hardware, screws, and similar items.
- H. Connections: Fabricate railings with welded connections unless otherwise indicated.
- I. Welded Connections: Cope components at connections to provide close fit, or use fittings designed for this purpose. Weld all around at connections, including at fittings.
 - 1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
 - 2. Obtain fusion without undercut or overlap.
 - 3. Remove flux immediately.
 - 4. At exposed connections, finish exposed welds to comply with NOMMA's "Voluntary Joint Finish Standards" for Type 1 welds: no evidence of a welded joint.
- J. Mechanical Connections: Connect members with concealed mechanical fasteners and fittings. Fabricate members and fittings to produce flush, smooth, rigid, hairline joints.
 - 1. Fabricate splice joints for field connection using an epoxy structural adhesive if this is manufacturer's standard splicing method.
- K. Form changes in direction as detailed on Drawings.
- L. Bend members in jigs to produce uniform curvature for each configuration required; maintain cross section of member throughout entire bend without buckling, twisting, cracking, or otherwise deforming exposed surfaces of components.
- M. Close exposed ends of hollow railing members with prefabricated end fittings.
- N. Provide wall returns at ends of wall-mounted handrails unless otherwise indicated. Close ends of returns, unless clearance between end of rail and wall is 1/4 inch or less.
- O. Brackets, Flanges, Fittings, and Anchors: Provide wall brackets, flanges, miscellaneous fittings, and anchors to interconnect railing members to other work unless otherwise indicated.
 - 1. At brackets and fittings fastened to plaster or gypsum board partitions, provide crush-resistant fillers, or other means to transfer loads through wall finishes to structural supports and prevent bracket or fitting rotation and crushing of substrate.
- P. Provide inserts and other anchorage devices for connecting railings to concrete or masonry work. Fabricate anchorage devices capable of withstanding loads imposed by railings. Coordinate anchorage devices with supporting structure.

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- Q. Perforated-Metal Infill Panels: Fabricate infill panels from perforated metal made from steel.
1. Edge panels with U-shaped channels made from metal sheet, of same metal as perforated metal and not less than 0.043 inch thick.
 2. Orient perforated metal with pattern as indicated on Drawings.

2.7 GENERAL FINISH REQUIREMENTS

- A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
- B. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

2.8 STEEL AND IRON FINISHES

- A. Galvanized Railings (at Exterior Locations Only):
1. Hot-dip galvanize exterior steel and iron railings, including hardware, after fabrication.
 2. Comply with ASTM A 123/A 123M for hot-dip galvanized railings.
 3. Comply with ASTM A 153/A 153M for hot-dip galvanized hardware.
 4. Do not quench or apply post galvanizing treatments that might interfere with paint adhesion.
 5. Fill vent and drain holes that are exposed in the finished Work, unless indicated to remain as weep holes, by plugging with zinc solder and filing off smooth.
- B. For galvanized railings, provide hot-dip galvanized fittings, brackets, fasteners, sleeves, and other ferrous components.
- C. Preparing Galvanized Railings for Shop Priming: After galvanizing, thoroughly clean railings of grease, dirt, oil, flux, and other foreign matter, and treat with etching cleaner.
- D. For nongalvanized-steel railings, provide nongalvanized ferrous-metal fittings, brackets, fasteners, and sleeves, except galvanize anchors to be embedded in exterior concrete or masonry.
- E. Preparing Nongalvanized Items for Shop Priming: Prepare uncoated ferrous-metal surfaces to comply with requirements indicated below:
1. Exterior Railings: SSPC-SP 6/NACE No. 3, "Commercial Blast Cleaning."
 2. Railings Indicated to Receive Zinc-Rich Primer: SSPC-SP 6/NACE No. 3, "Commercial Blast Cleaning."
 3. Railings Indicated to Receive Primers Specified in Division 9 Section "High-Performance Coatings": SSPC-SP 6/NACE No. 3, "Commercial Blast Cleaning."
 4. Other Railings: SSPC-SP 7/NACE No. 4, "Brush-off Blast Cleaning."
- F. Primer Application: Apply shop primer to prepared surfaces of railings unless otherwise indicated. Comply with requirements in SSPC-PA 1, "Paint Application Specification No. 1: Shop, Field, and Maintenance Painting of Steel," for shop painting. Primer need not be applied to surfaces to be embedded in concrete or masonry.

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1. Shop prime uncoated railings with primers specified in Division 9 Section "High-Performance Coatings."
 2. Do not apply primer to galvanized surfaces.
- G. Shop-Painted Finish: Comply with Division 9 Section "High-Performance Coatings."
1. Apply epoxy intermediate and polyurethane topcoats to prime-coated surfaces. Comply with coating manufacturer's written instructions and with requirements in SSPC-PA 1, "Paint Application Specification No. 1: Shop, Field, and Maintenance Painting of Steel," for shop painting. Apply at spreading rates recommended by coating manufacturer.
 2. Color: Refer to "Finish Materials Schedule."
- H. Powder-Coat Finish on Steel: Prepare, treat, and coat nongalvanized ferrous metal to comply with resin manufacturer's written instructions and as follows:
1. Prepare uncoated ferrous-metal surfaces to comply with SSPC-SP 6/NACE No. 3, "Commercial Blast Cleaning."
 2. Treat prepared metal with iron-phosphate pretreatment, rinse, and seal surfaces.
 3. Apply thermosetting polyester or acrylic urethane powder coating with cured-film thickness not less than 1.5 mils.
 4. Color: Match Architect's sample.
- I. Powder-Coat Finish on Galvanized Steel: Prepare, treat, and coat galvanized metal to comply with resin manufacturer's written instructions and as follows:
1. Prepare galvanized metal by thoroughly removing grease, dirt, oil, flux, and other foreign matter.
 2. Treat prepared metal with zinc-phosphate pretreatment, rinse, and seal surfaces.
 3. Apply thermosetting polyester or acrylic urethane powder coating with cured-film thickness not less than 1.5 mils.
 4. Color: Match Architect's sample.]

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine partition assemblies, where reinforced to receive anchors, to verify that locations of concealed reinforcements have been clearly marked for Installer. Locate reinforcements and mark locations if not already done.

3.2 INSTALLATION, GENERAL

- A. Fit exposed connections together to form tight, hairline joints.
- B. Perform cutting, drilling, and fitting required for installing railings. Set railings accurately in location, alignment, and elevation; measured from established lines and levels and free of rack.
1. Do not weld, cut, or abrade surfaces of railing components that have been coated or finished after fabrication and that are intended for field connection by mechanical or other means without further cutting or fitting.
 2. Set posts plumb within a tolerance of 1/16 inch in 3 feet.

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3. Align rails so variations from level for horizontal members and variations from parallel with rake of steps and ramps for sloping members do not exceed 1/4 inch in 12 feet.
 - C. Adjust railings before anchoring to ensure matching alignment at abutting joints.
 - D. Fastening to In-Place Construction: Use anchorage devices and fasteners where necessary for securing railings and for properly transferring loads to in-place construction.
- 3.3 RAILING CONNECTIONS
- A. Nonwelded Connections: Use mechanical or adhesive joints for permanently connecting railing components. Use wood blocks and padding to prevent damage to railing members and fittings. Seal recessed holes of exposed locking screws using plastic cement filler colored to match finish of railings.
 - B. Welded Connections: Use fully welded joints for permanently connecting railing components. Comply with requirements for welded connections in "Fabrication" Article whether welding is performed in the shop or in the field.
 - C. Expansion Joints: Install expansion joints at locations indicated but not farther apart than required to accommodate thermal movement. Provide slip-joint internal sleeve extending 2 inches beyond joint on either side, fasten internal sleeve securely to one side, and locate joint within 6 inches of post.
- 3.4 ANCHORING POSTS
- A. Use steel pipe sleeves preset and anchored into concrete for installing posts. After posts have been inserted into sleeves, fill annular space between post and sleeve with anchoring cement, mixed and placed to comply with anchoring material manufacturer's written instructions.
 - B. Form or core-drill holes not less than 5 inches deep and 3/4 inch larger than OD of post for installing posts in concrete. Clean holes of loose material, insert posts, and fill annular space between post and concrete with anchoring cement, mixed and placed to comply with anchoring material manufacturer's written instructions.
 - C. Cover anchorage joint with flange of same metal as post, welded to post after placing anchoring material.
 - D. Leave anchorage joint exposed with 1/8-inch buildup, sloped away from post.
 - E. Anchor posts to metal surfaces with flanges, angle type, or floor type as required by conditions, connected to posts and to metal supporting members as follows:
 1. For steel railings, weld flanges to posts and bolt to metal-supporting surfaces.
- 3.5 ATTACHING RAILINGS
- A. Anchor railing ends to concrete and masonry with sleeves concealed within railing ends and anchored to wall construction with anchors and bolts.
 - B. Anchor railing ends to metal surfaces with flanges bolted to metal surfaces and welded to railing ends or connected to railing ends using nonwelded connections.

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- C. Attach handrails to walls with wall brackets except where end flanges are used. Provide brackets with 1-1/2-inch clearance from inside face of handrail and finished wall surface. Locate brackets as indicated or, if not indicated, at spacing required to support structural loads.
 - 1. Use type of bracket with flange tapped for concealed anchorage to threaded hanger bolt.
 - 2. Locate brackets as indicated or, if not indicated, at spacing required to support structural loads.
- D. Secure wall brackets to building construction as follows:
 - 1. Concrete and Masonry: For concrete and solid masonry anchorage, use drilled-in expansion shields and hanger or lag bolts. For hollow masonry anchorage, use toggle bolts.
 - 2. Wood Blocking: Use hanger or lag bolts set into wood backing between studs.
 - 3. Metal Plate Backing: Fasten brackets with toggle bolts installed through flanges of steel framing or through concealed steel reinforcements.

3.6 FIELD QUALITY CONTROL

- A. Testing Agency: Owner will engage a qualified testing and inspecting agency to perform field tests and inspections and prepare test reports. Payment for these services will be made by Owner.
- B. Remove and replace railings where test results indicate that they do not comply with specified requirements unless they can be repaired in a manner satisfactory to Architect and will comply with specified requirements.
- C. Additional testing and inspecting, at Contractor's expense, will be performed to determine compliance of replaced or additional work with specified requirements.

3.7 CLEANING

- A. Touchup Painting: Cleaning and touchup painting of field welds, bolted connections, and abraded areas of shop paint are specified in Division 9 Section "High-Performance Coatings."
- B. Galvanized Surfaces: Clean field welds, bolted connections, and abraded areas and repair galvanizing to comply with ASTM A 780.

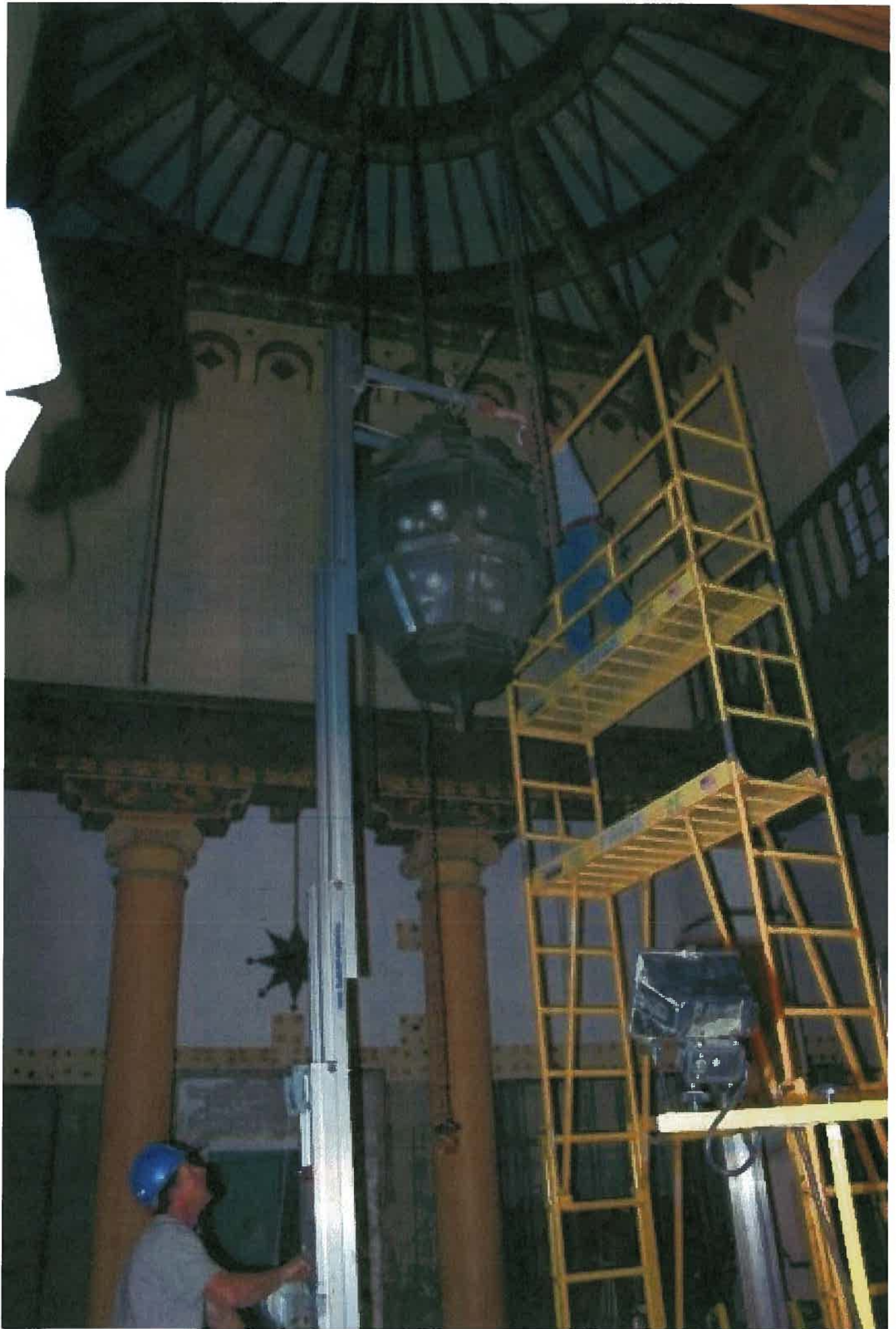
3.8 PROTECTION

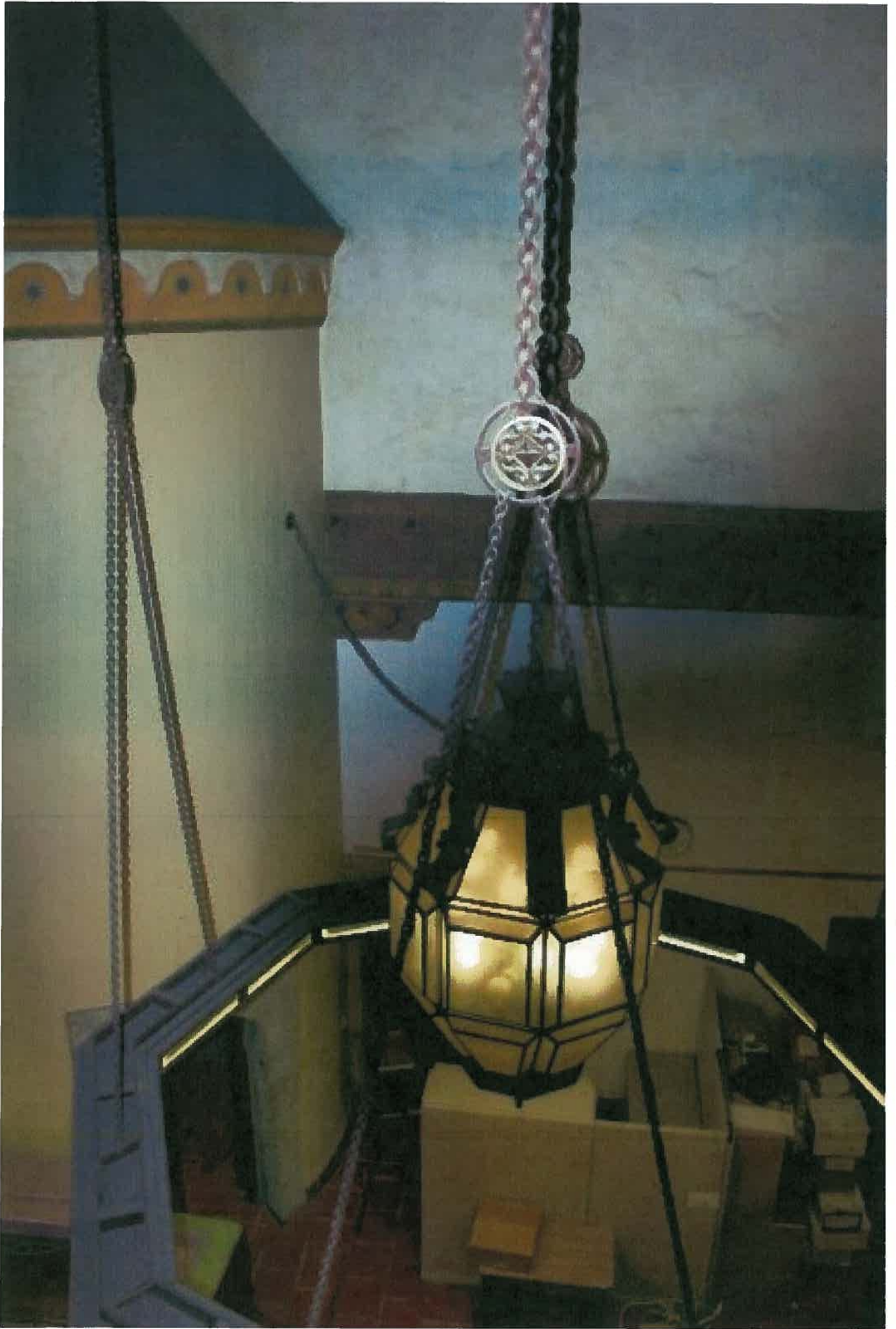
- A. Protect finishes of railings from damage during construction period with temporary protective coverings approved by railing manufacturer. Remove protective coverings at time of Substantial Completion.
- B. Restore finishes damaged during installation and construction period so no evidence remains of correction work. Return items that cannot be refinished in the field to the shop; make required alterations and refinish entire unit, or provide new units.

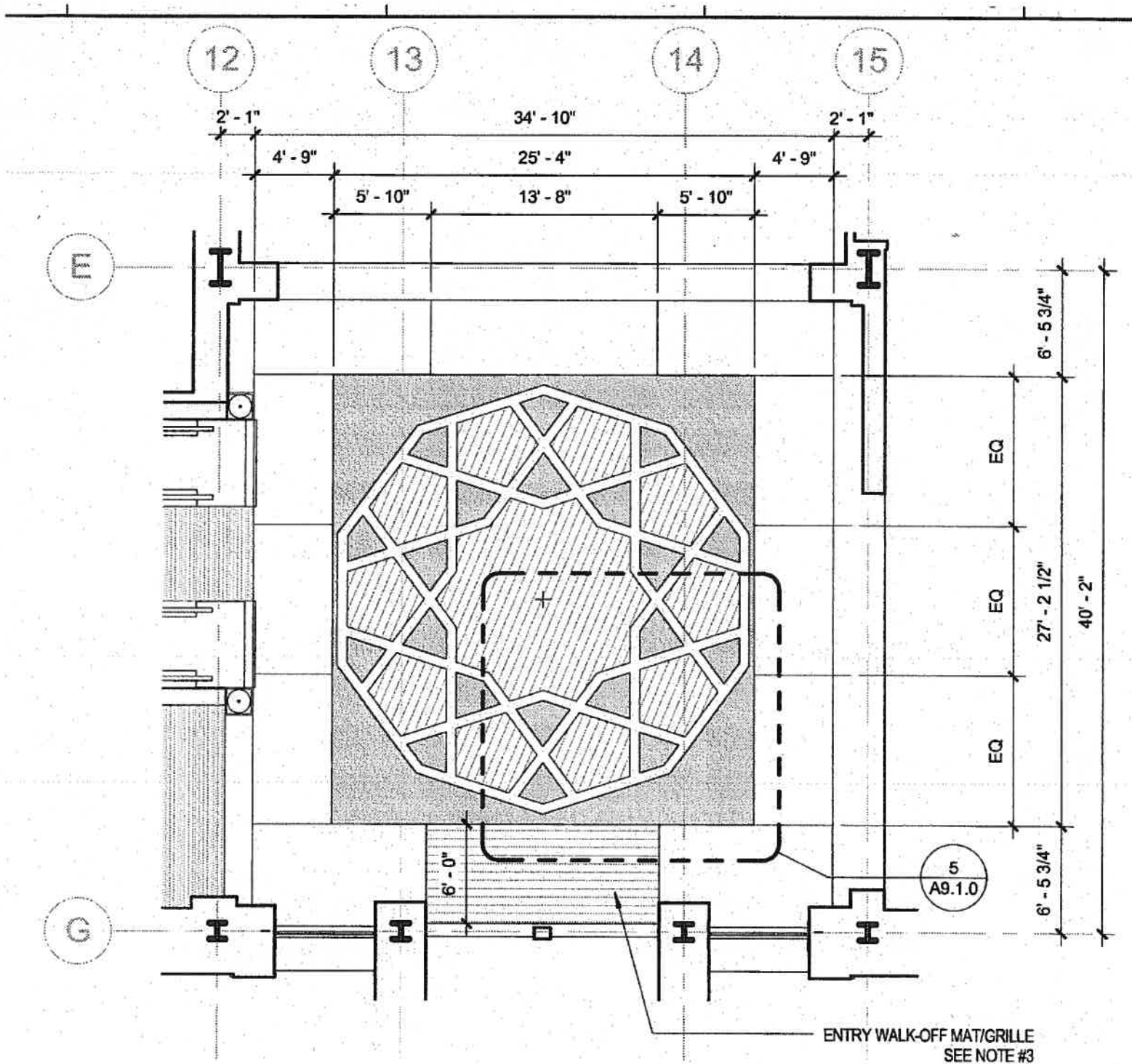
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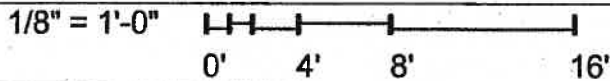


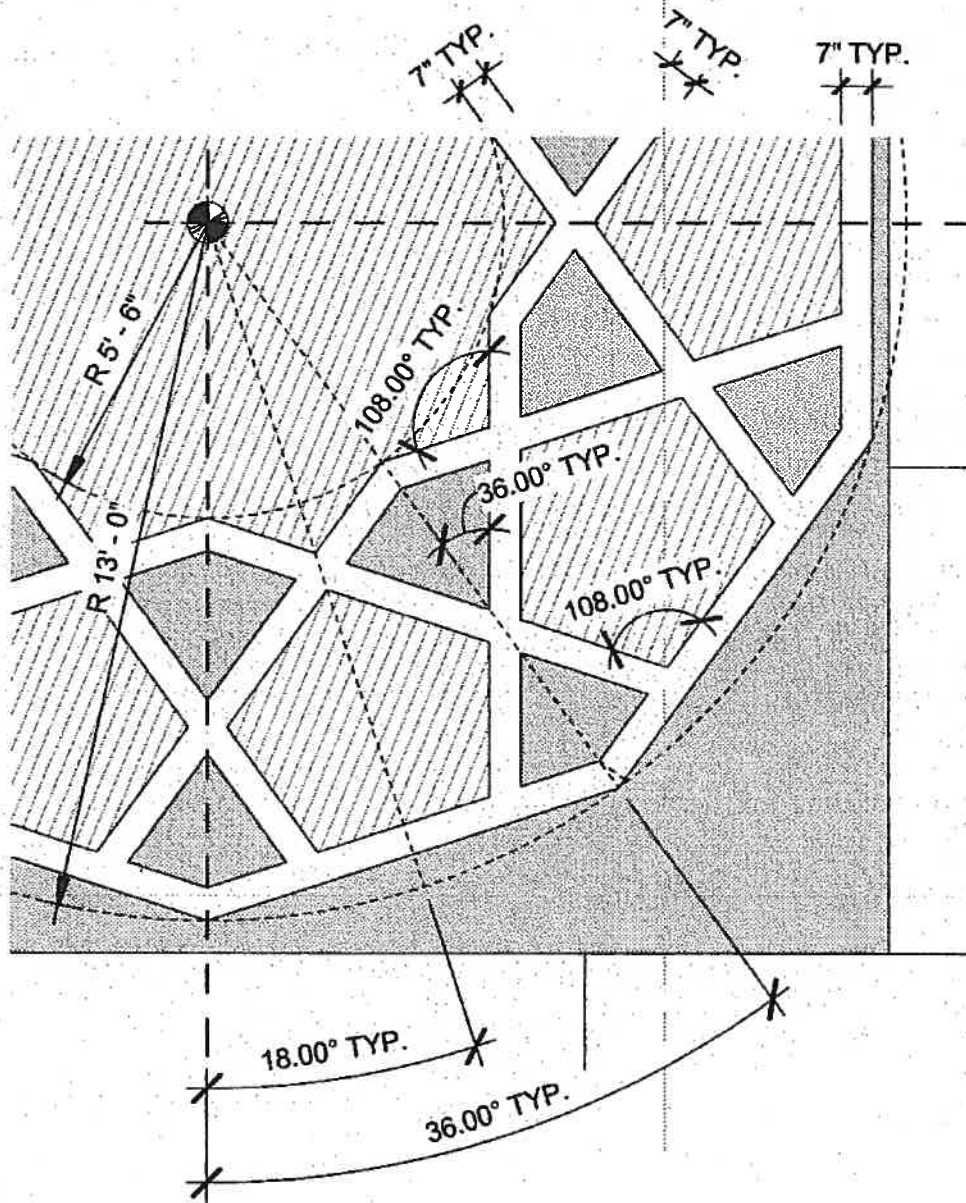






4 ENLARGED FLR FIN PLAN - 101 LOBBY





5

PATTERN DETAIL - 101 LOBBY

1/4" = 1'-0"