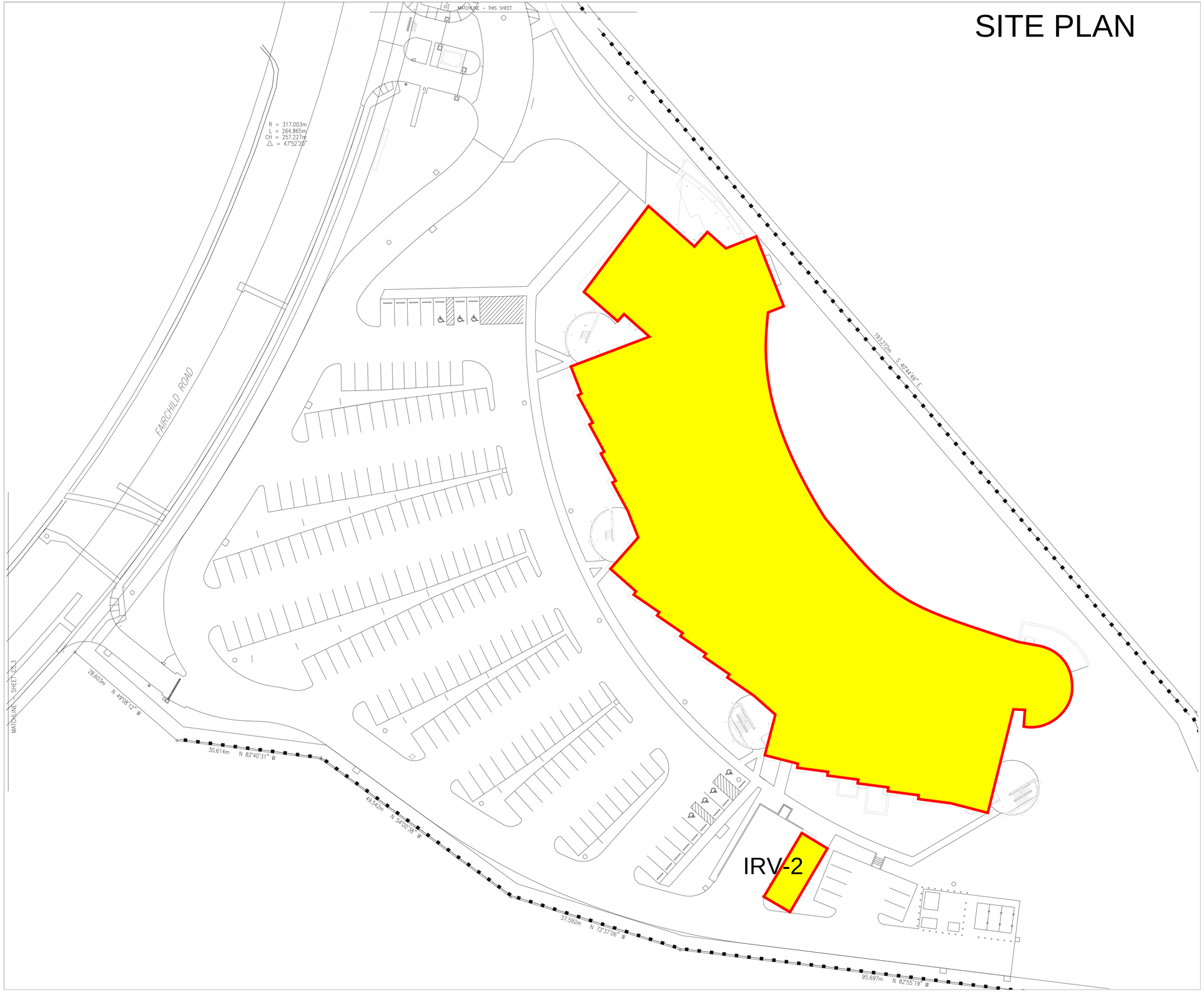
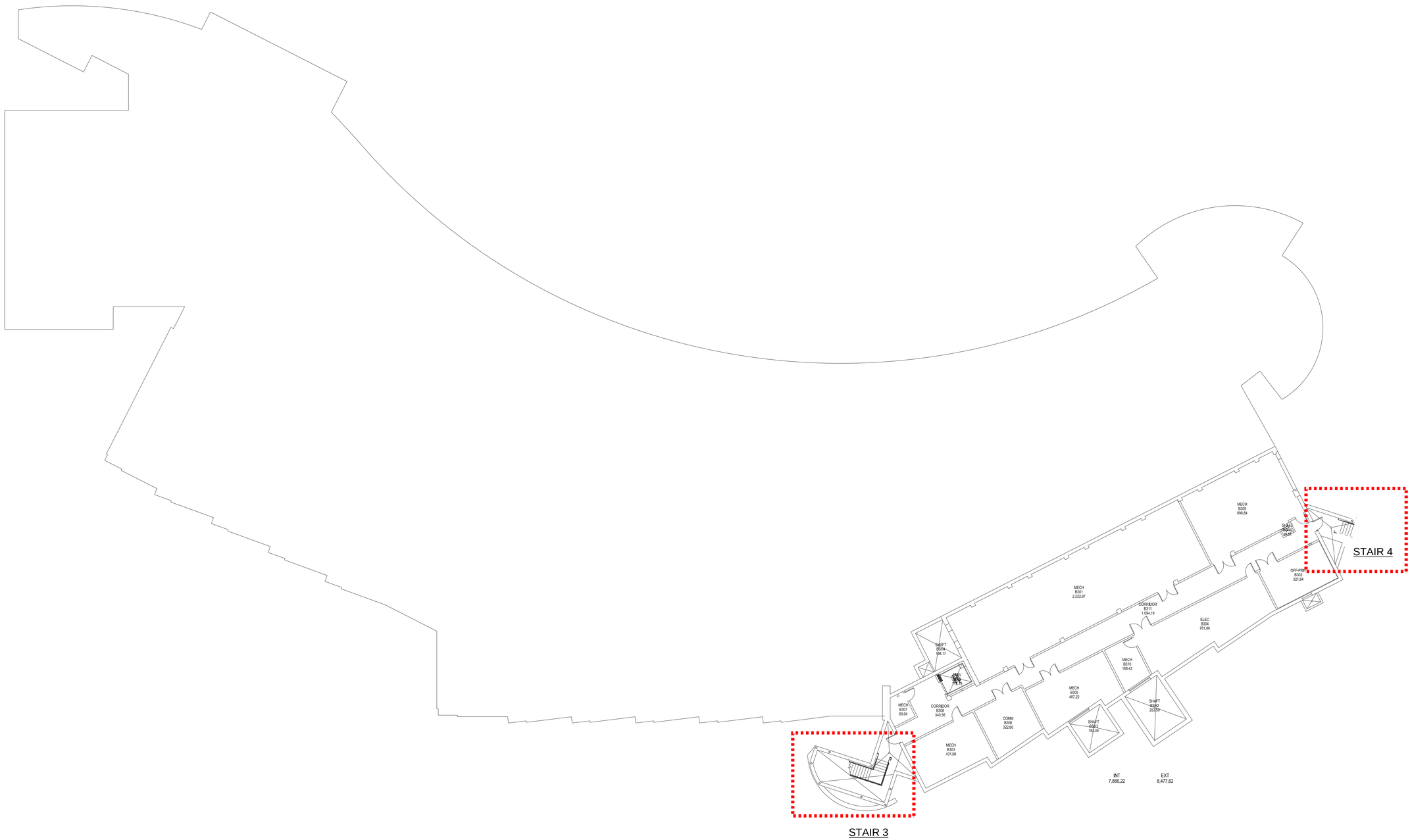
SITE PLAN


MATCHLINE – THIS SHEET
R = 317.003m
L = 264.865m
CH = 257.227m
Δ = 47°52'20"
FAIRCHILD ROAD
193.272m S 40°14'49" E
MATCHLINE – SHEET 2b-3
28.803m N 49°08'12" W
30.614m N 82°40'31" W
49.342m N 54°00'38" W
37.592m N 72°37'06" W
95.691m N 82°55'19" W
IRV-2



C:\AutoCad\FDA Master Drawings\Architectural Plan Masters\SPM_IRV-1-0B.dwg [B3D] | WBen Wilt, May 17,2012 - 12:50pm

U.S. Department of Health and Human Services
Food and Drug Administration
Office of Real Property Services
5630 Fishers Lane, Rockville, MD 20857

No.	Revision/Issue	Date

IRVINE REGIONAL OFFICE
19701 FAIRCHILD
GROUND FLOOR

SPACE PLAN MASTERS
CURRENT CONFIGURATION

Project No.	
Drawn by	FDA
Checked by	
Issue Date	MAY 17, 2012
File Name	SPM_IRV-1-0B.dwg

IRV-1-0B

ENTRANCE CANOPY

STAIR 1

STAIR 2

STAIR 3

STAIR 4

1/16" = 1'-0"

U.S. Department of Health and Human Services
Food and Drug Administration
Office of Real Property Services
5630 Fishers Lane, Rockville, MD 20857

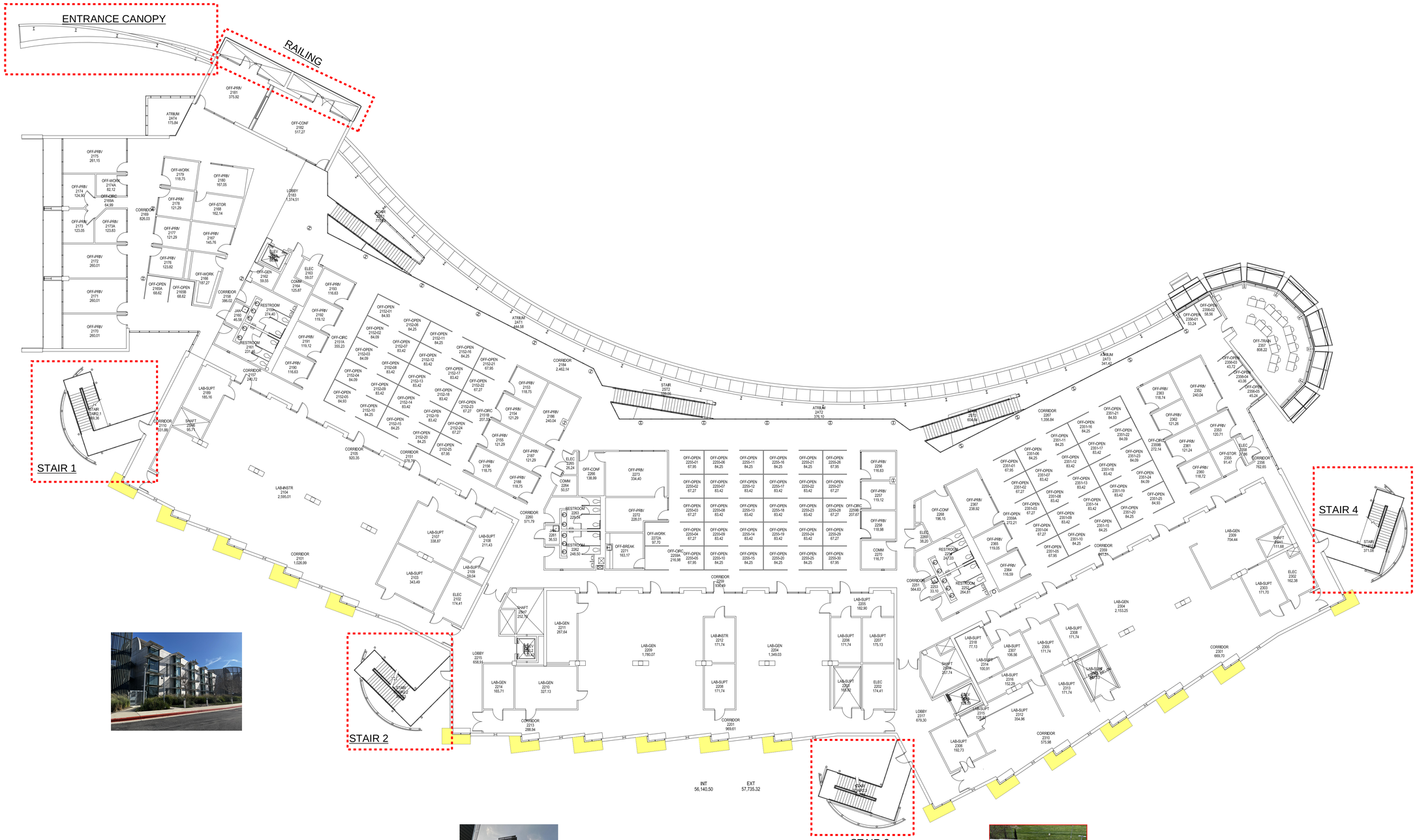
No.	Revision/Issue	Date

IRVINE REGIONAL OFFICE
19701 FAIRCHILD
FIRST FLOOR

SPACE PLAN MASTERS
CURRENT CONFIGURATION

Project No.	
Drawn by	FDA
Checked by	
Issue Date	MAY 17, 2012
File Name	SPM_IRV-1-01.dwg

IRV-1-01



1/16" = 1'-0"

U.S. Department of Health and Human Services
Food and Drug Administration
Office of Real Property Services
5630 Fishers Lane, Rockville, MD 20857

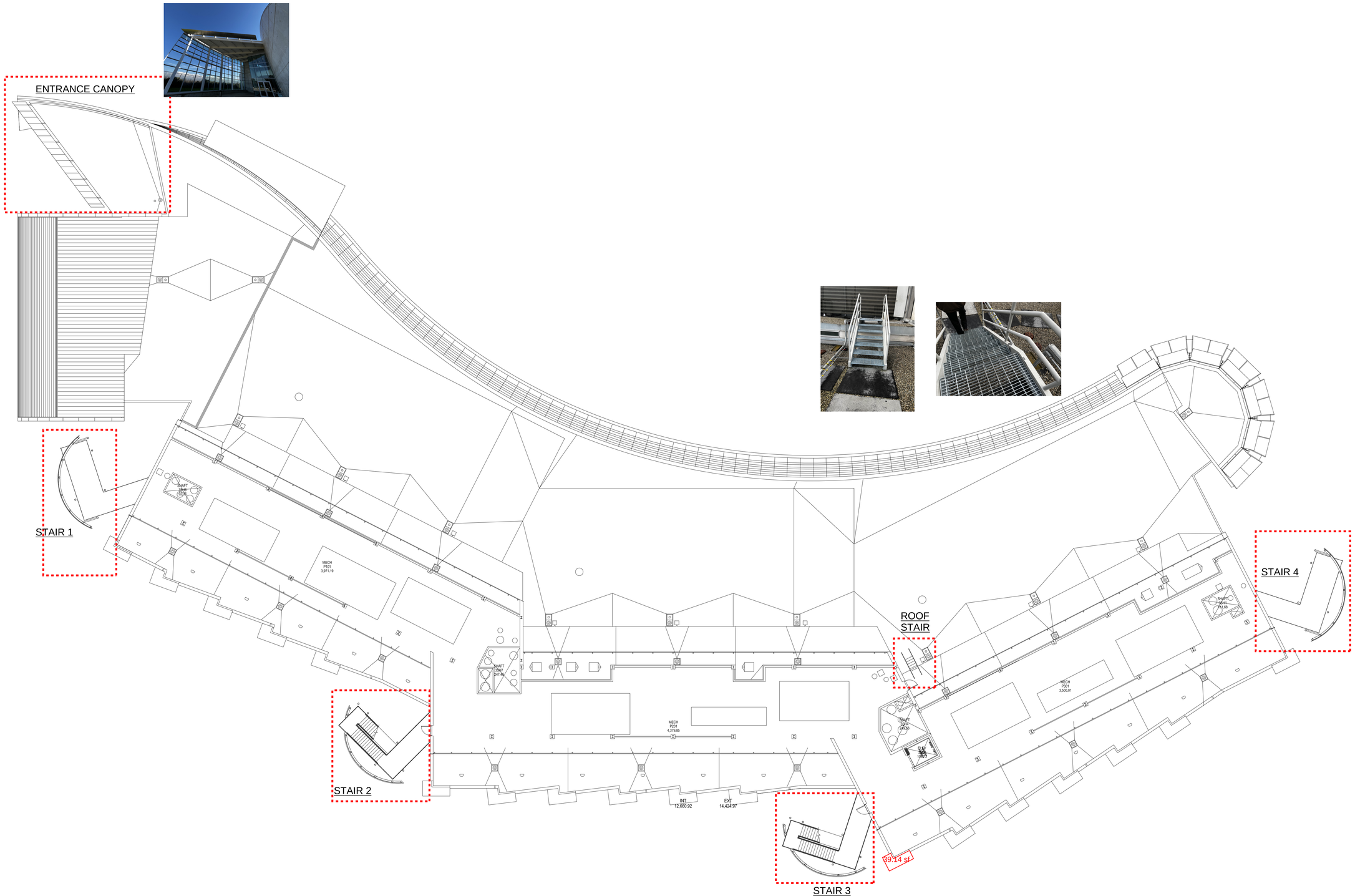
No.	Revision/Issue	Date

IRVINE REGIONAL OFFICE
19701 FAIRCHILD
SECOND FLOOR

SPACE PLAN MASTERS
CURRENT CONFIGURATION

Project No.	
Drawn by	FDA
Checked by	
Issue Date	MAY 17, 2012
File Name	SPM_IRV-1-02.dwg

IRV-1-02



U.S. Department of Health and Human Services
Food and Drug Administration
Office of Real Property Services
5630 Fishers Lane, Rockville, MD 20857

No.	Revision/Issue	Date

IRVINE REGIONAL OFFICE
19701 FAIRCHILD
THIRD FLOOR

SPACE PLAN MASTERS
CURRENT CONFIGURATION

Project No.	
Drawn by	FDA
Checked by	
Issue Date	MAY 17, 2012
File Name	SPM_IRV-1-03.dwg

IRV-1-03

REFLECTED CEILING PLAN - LEVEL TWO - WING ONE

FDA AT IRVINE

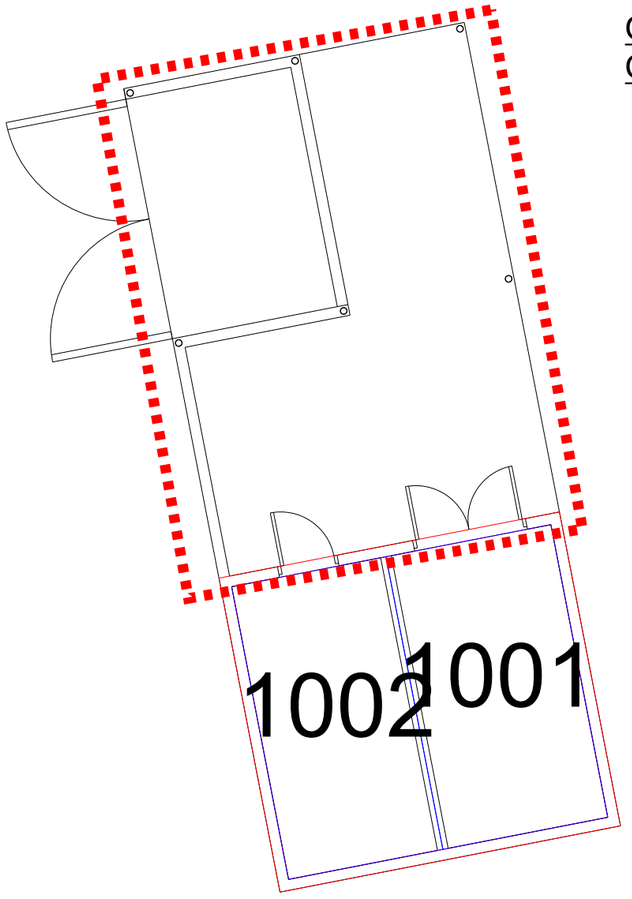
ZIMMER GUNSUL FRASCA PARTNERSHIP + HENNINGSON, DURHAM & RICHARDSON, INC.

REF #038 - 03/15/02
REF #065 - 08/14/02
REF #080 - 11/8/02

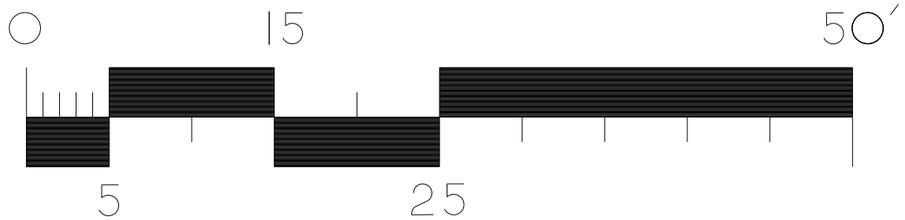
A9.5

Drawing No - 1.110

FILE NAME: L:\6008.4FDA\CAD\PLOTS\A9-5.DWG
PLOT VIEW: PLOT
PLOT DATE: DATE/TIME



CHEMICAL SHED
CANOPY COVER



Building Code | Floor Code | Room Code

Room Codes

OFFICE OF OPERATIONS
OFFICE OF FACILITIES ENGINEERING AND MISSION SUPPORT SERVICES
U.S. Food & Drug Administration
10903 New Hampshire Avenue
Silver Spring, MD 20903
www.fda.gov

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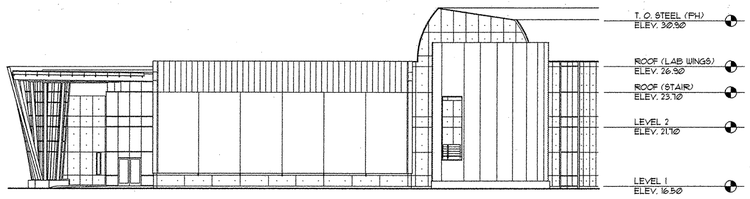
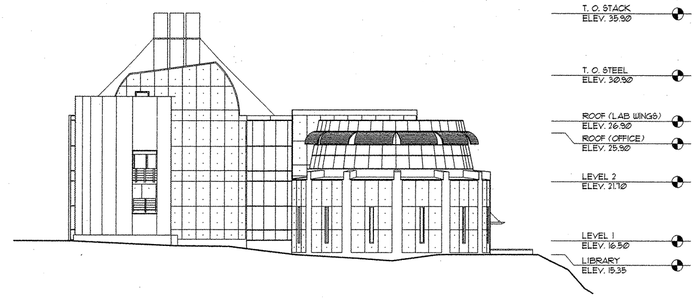
Irvine - Hazmat
19701 Fairchild
First Floor

FACILITY MANAGEMENT SYSTEM SPACE PLAN

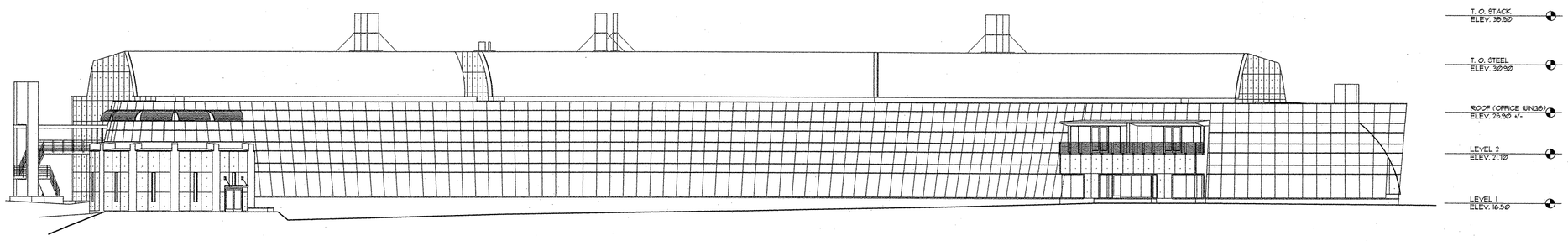
Created By: **PRASHANT.GONGAL@FDA.HHS.GOV**	GSA Bldg: **9024**
	Bldg Code: **IRV-2**
Title: **IRV-2-01CO.dwg**	Floor Code: **01**
Scale: **BARSCALE**	



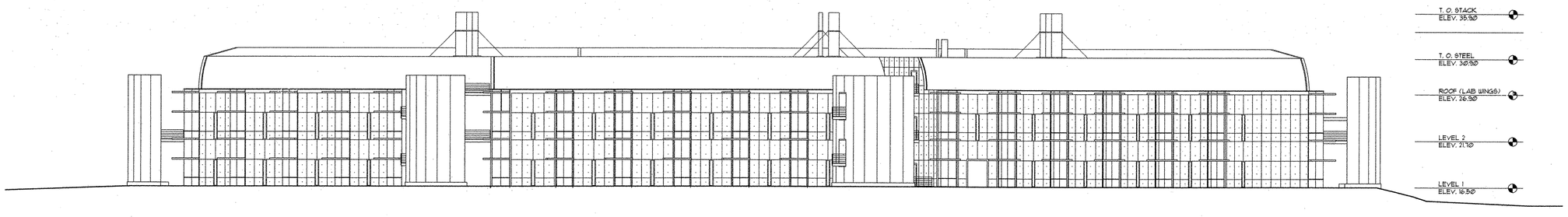
2 / A3.1 OVERALL WEST ELEVATION
SCALE: 1:2ØØ



1 / A3.1 OVERALL EAST ELEVATION
SCALE: 1:2ØØ



3 / A3.1 OVERALL NORTH ELEVATION
SCALE: 1:2ØØ



4 / A3.1 OVERALL SOUTH ELEVATION
SCALE: 1:2ØØ

FILE NAME: EILES0084.FDA\CAD\PLOTS\A3-01.DWG
PLOT VIEW: PREVIEW
PLOT DATE: DATE/TIME

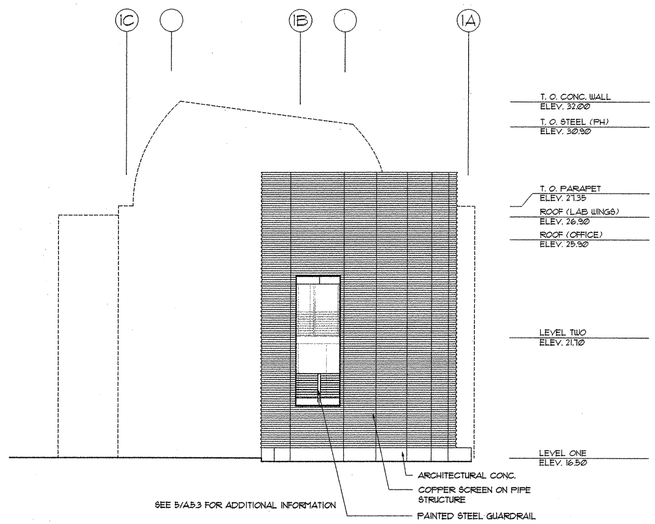
ZIMMER GUNSUL FRASCA PARTNERSHIP
+
HENNINGSON, DURHAM & RICHARDSON, INC.

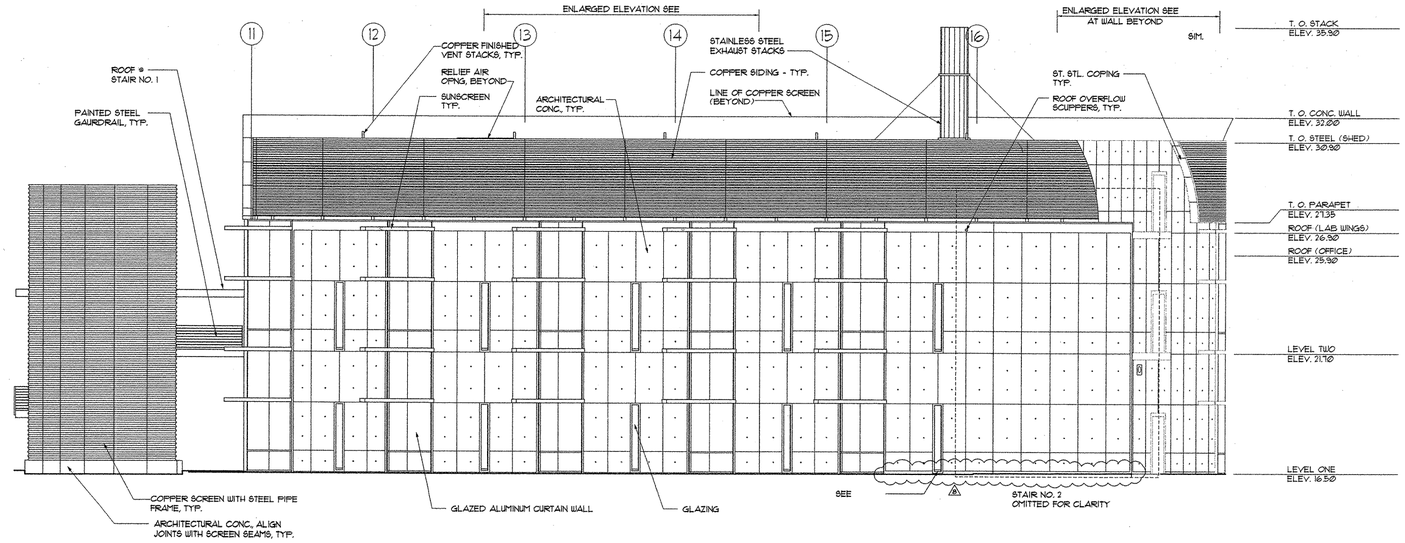
FDA AT IRVINE

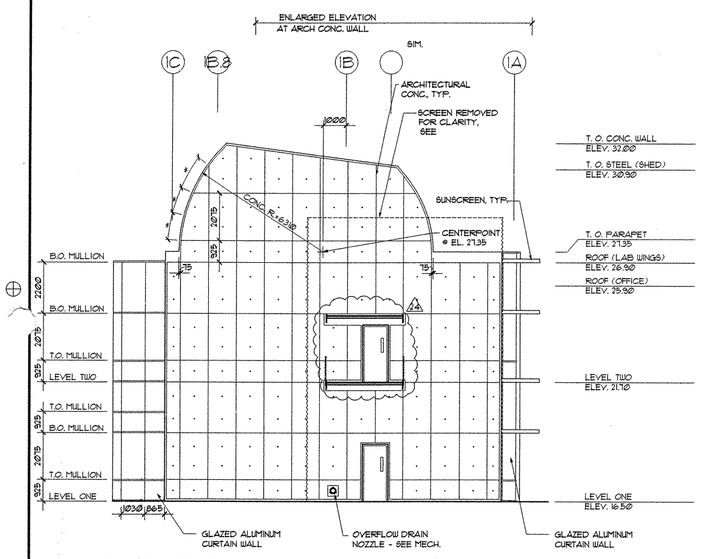
OVERALL BUILDING ELEVATIONS

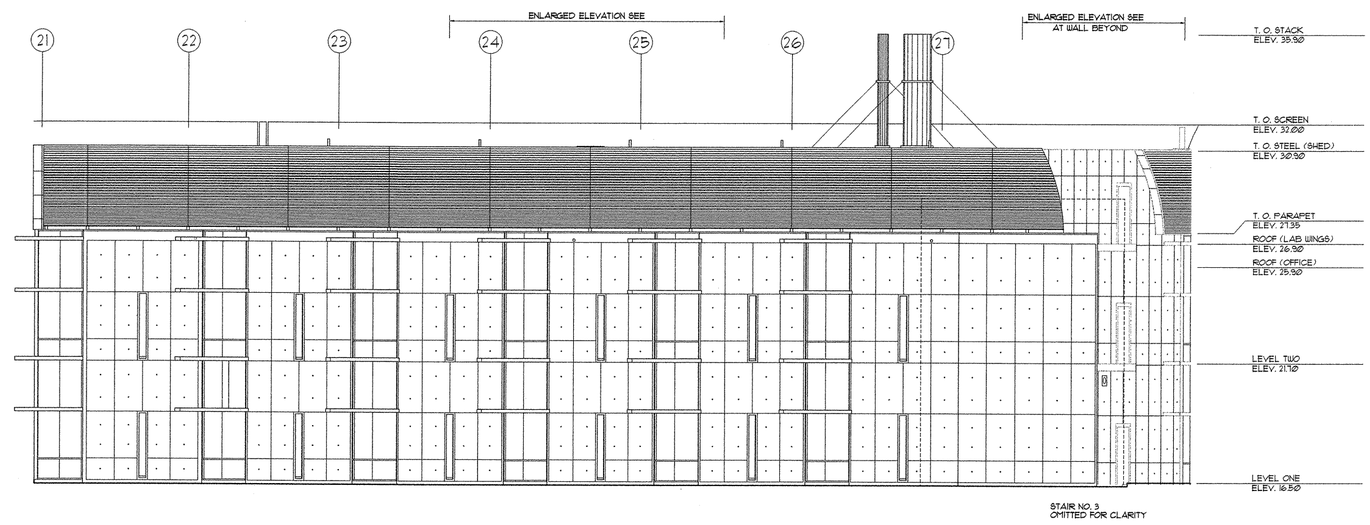
A3.1

Drawing No - 1.42

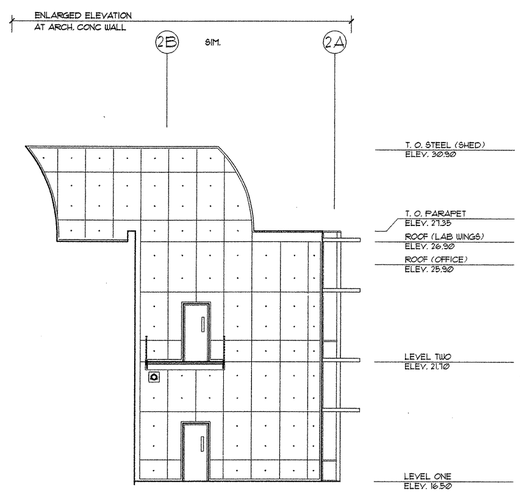




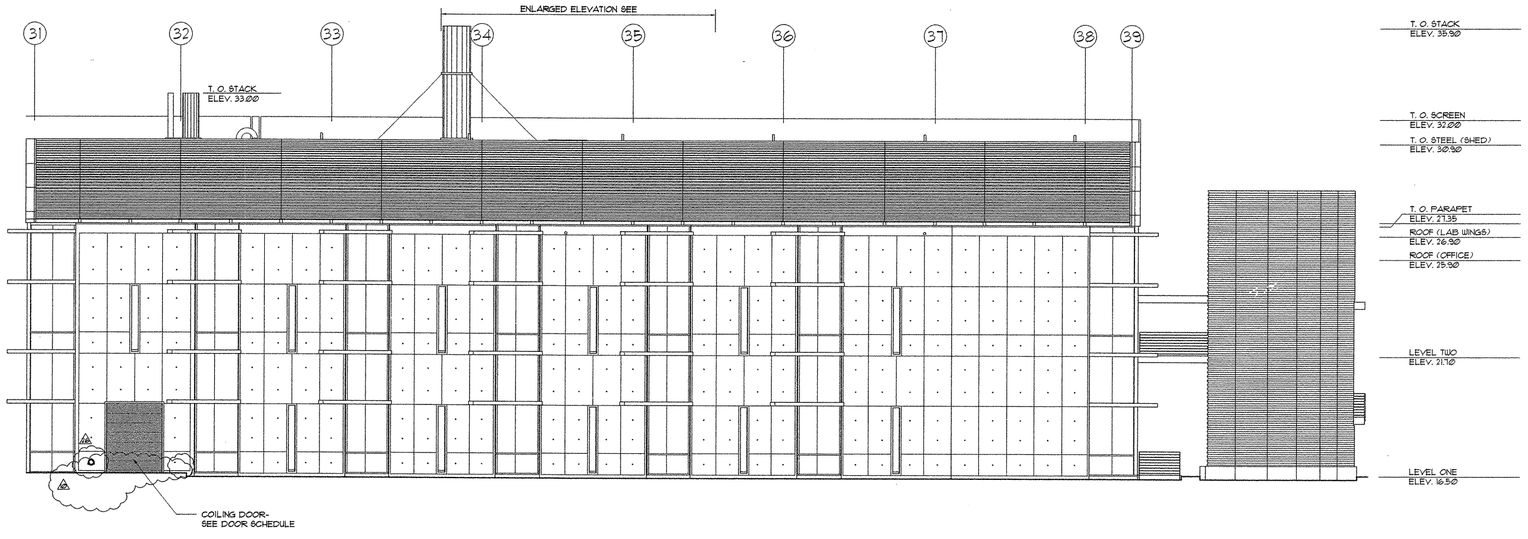




SEE 1/A3.2 FOR ADDITIONAL NOTES



SEE 5/A3.2 FOR ADDITIONAL NOTES



SEE 1/A3.2 FOR ADDITIONAL NOTES

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PLOT VIEW:
PLOT DATE/TIME:

08/13/01	ASI #004
09/01/01	ASI #006
11/1/01	RFP #014
1/28/02	RFI #134-R2

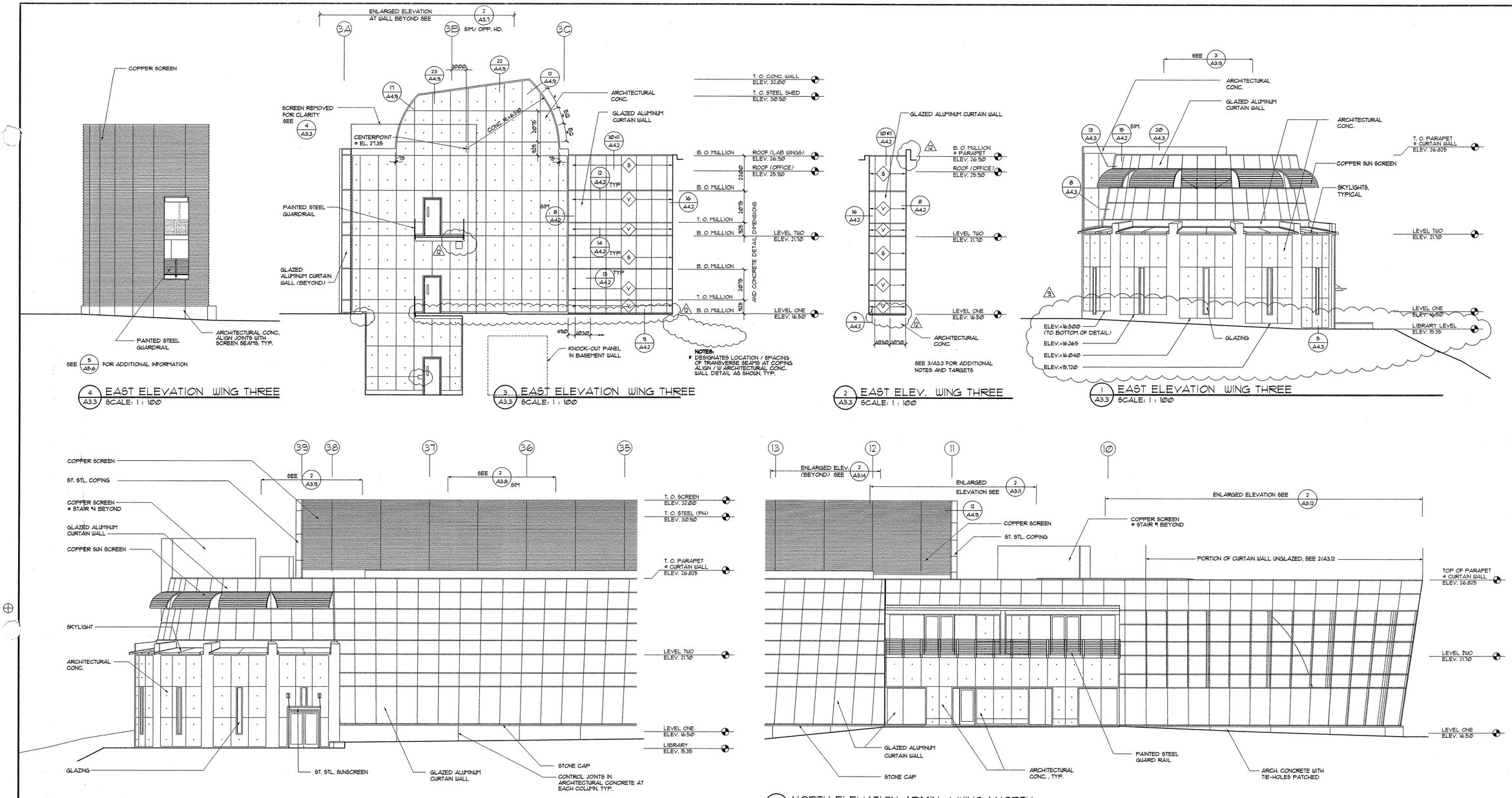
ZIMMER GUNSUL FRASCA PARTNERSHIP
+
HENNINGSON, DURHAM & RICHARDSON, INC.

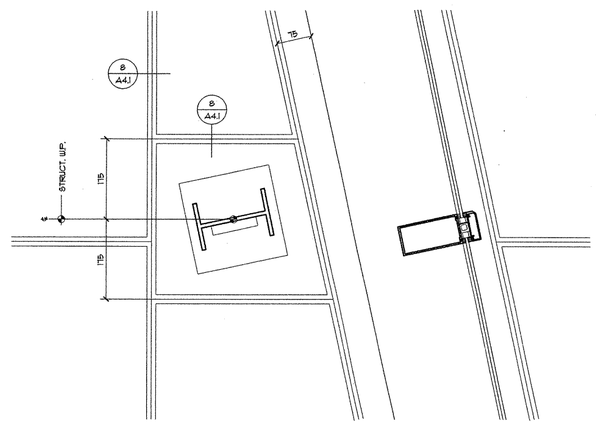
FDA AT IRVINE

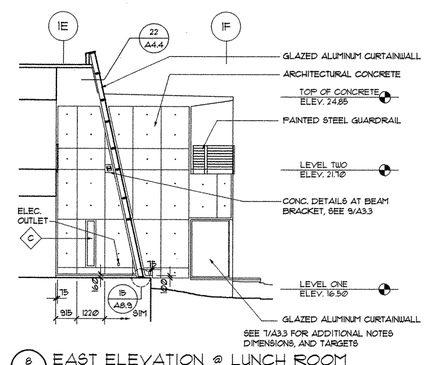
BUILDING ELEVATIONS

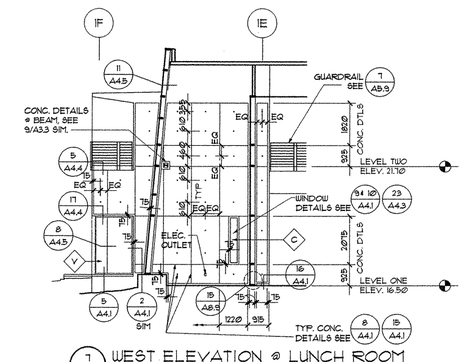
A3.2

Drawing No - 143









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PLOT VIEW: PLOT
PLOT DATE: DATE/TIME

1	07/26/01 - ASI #003
2	08-17-01 - ASI #005

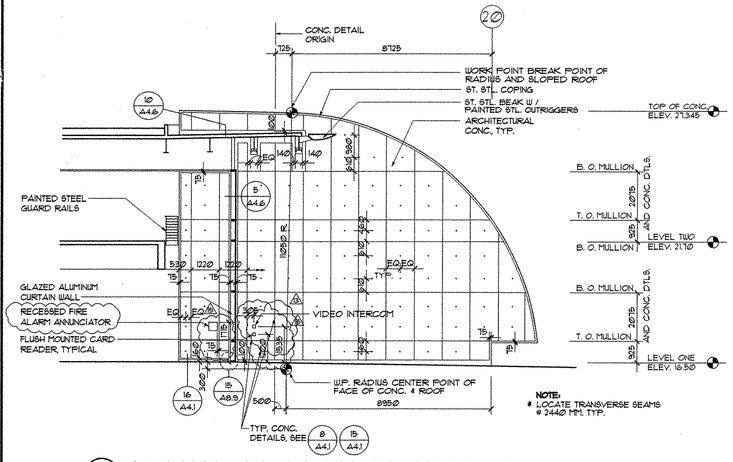
ZIMMER GUNSUL FRASCA PARTNERSHIP
+
HENNINGSON, DURHAM & RICHARDSON, INC.

FDA AT IRVINE

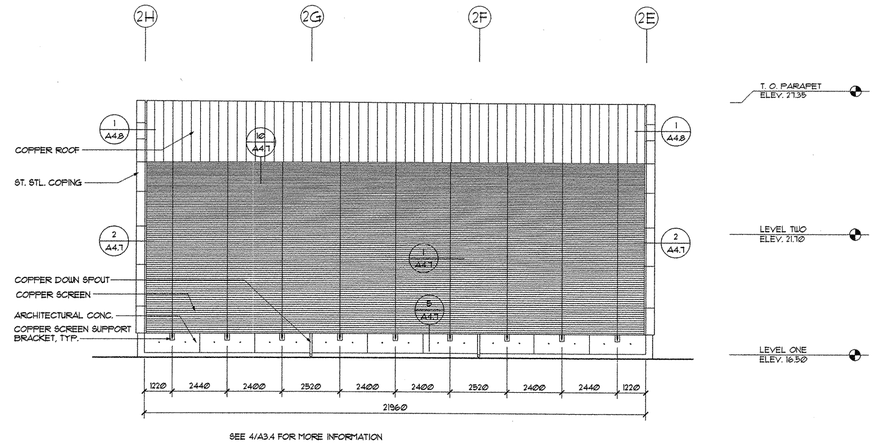
BUILDING ELEVATIONS

A3.3

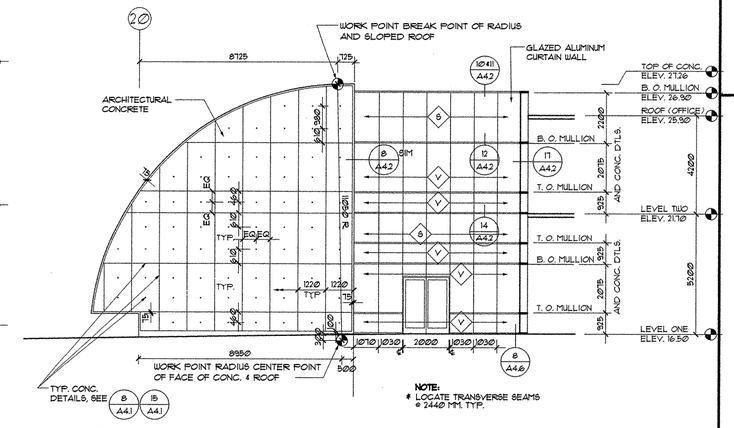
Drawing No - 144



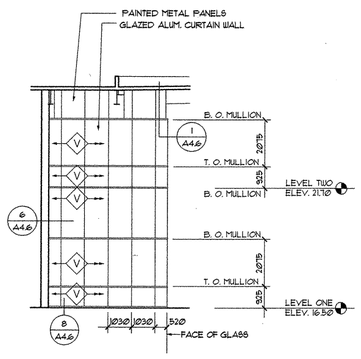
3 A3.4 NORTH ELEVATION ADMIN. WING (AT ENTRY)
SCALE: 1 : 100



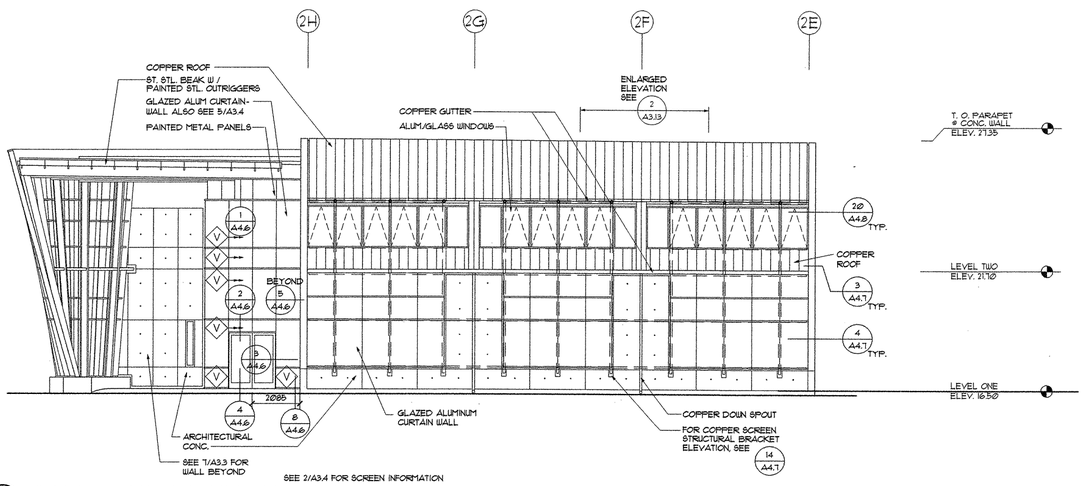
2 A3.4 WEST ELEVATION ADMIN. WING W/ SCREEN
SCALE: 1 : 100



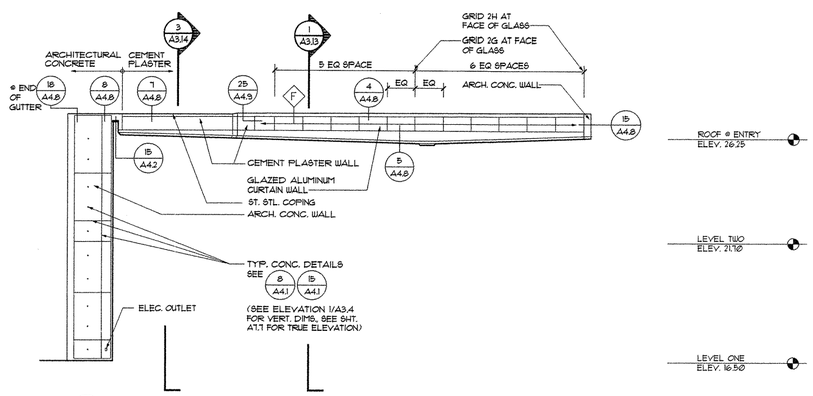
1 A3.4 SOUTH ELEVATION ADMIN. WING
SCALE: 1 : 100



5 A3.4 NORTH ELEVATION ADMIN. WING (AT ENTRY)
SCALE: 1 : 100



4 A3.4 WEST ELEVATION ADMIN. WING W/ SCREEN REMOVED
SCALE: 1 : 100



6 A3.4 EAST ELEVATION @ ADMIN WING
SCALE: 1 : 100

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PLOT VIEW: PLOT
PLOT DATE: DATE/TIME

2 02/02/01 - REF #151
3 02/12/01 - REF #151-R1

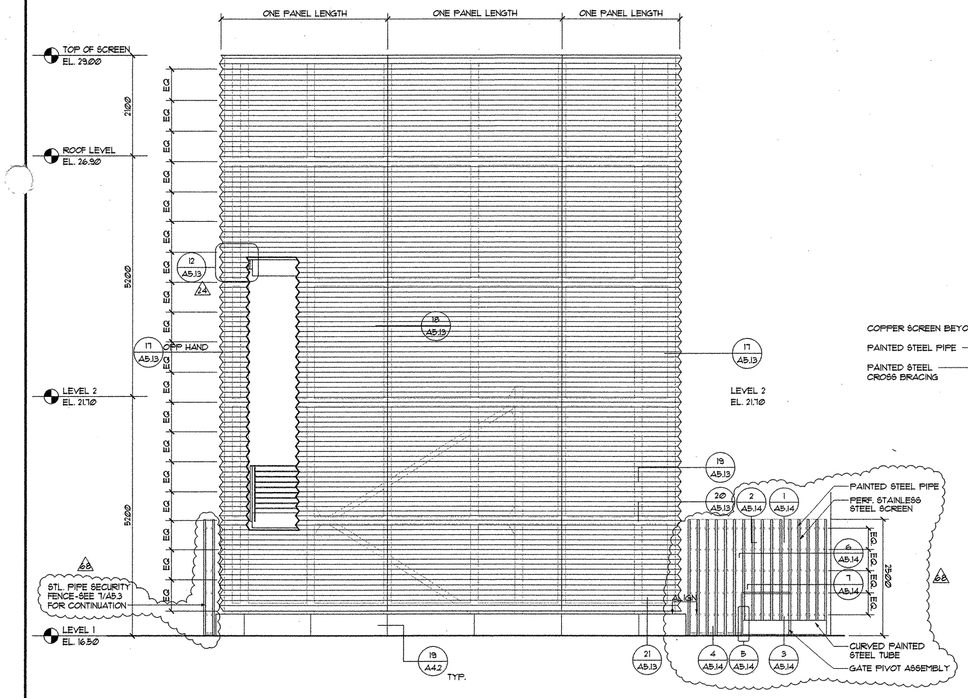
ZIMMER GUNSUL FRASCA PARTNERSHIP
+
HENNINGSON, DURHAM & RICHARDSON, INC.

FDA AT IRVINE

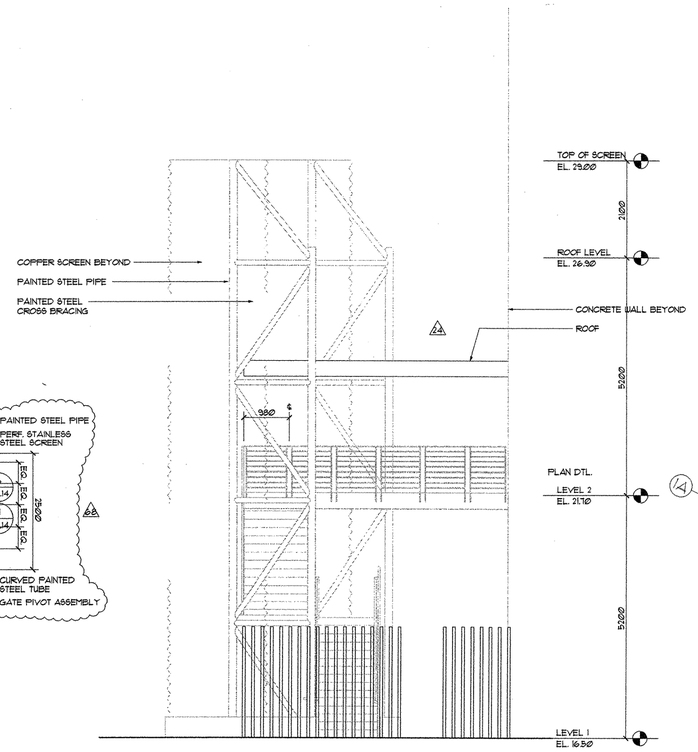
BUILDING ELEVATIONS

A3.4

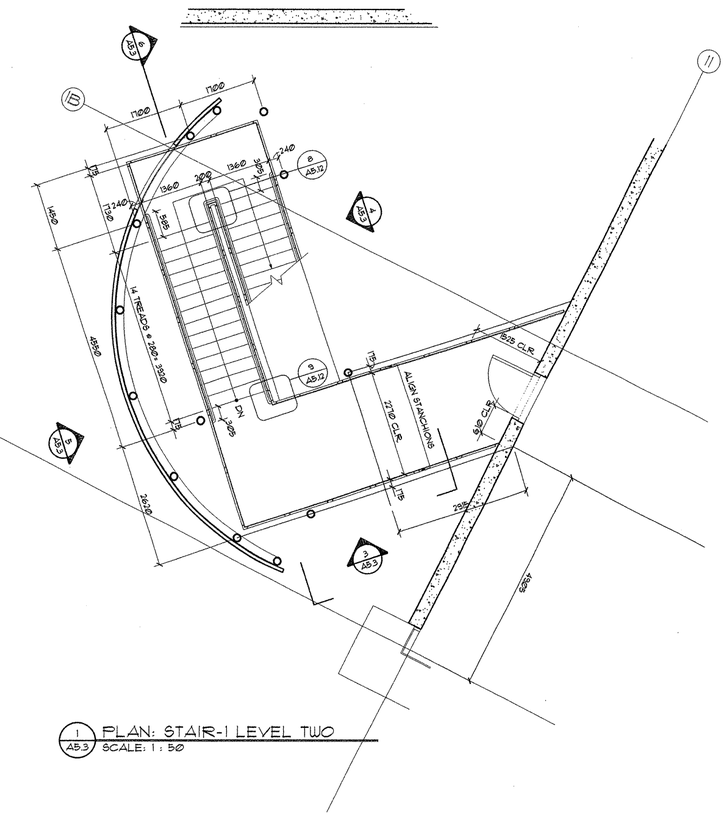
Drawing No - 145



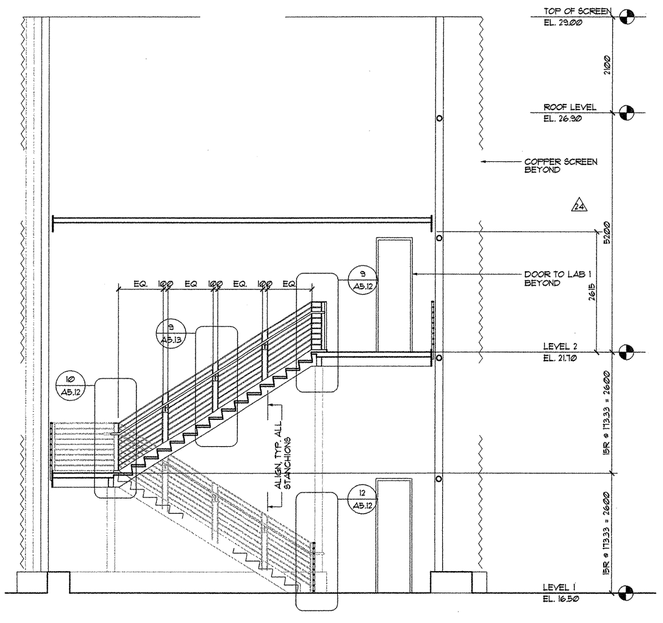
5 A5.3 SCREEN ELEVATION: STAIR-1
SCALE: 1 : 50



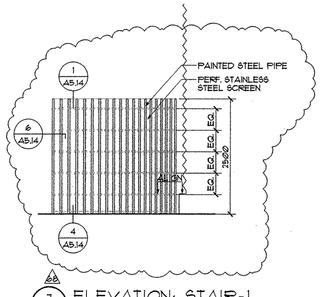
3 A5.3 ELEVATION: STAIR-1
SCALE: 1 : 20 (STAIR-4 SIM, OPP HAND)



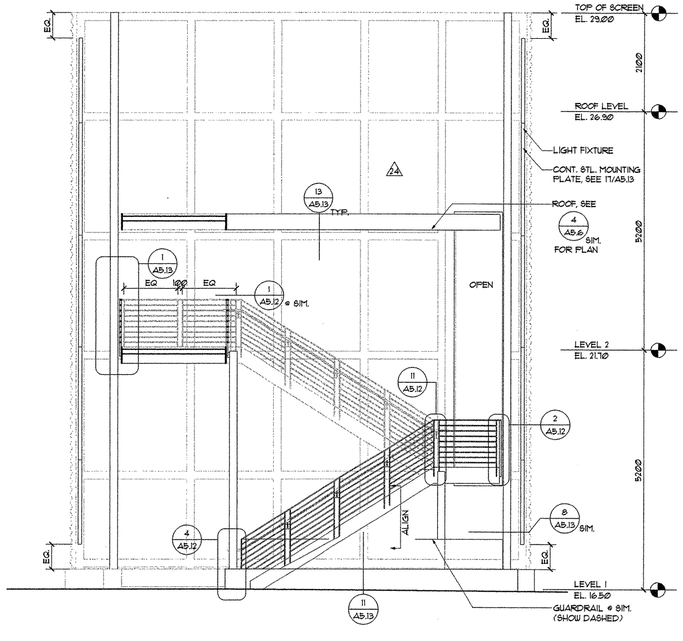
1 A5.3 PLAN: STAIR-1 LEVEL TWO
SCALE: 1 : 50



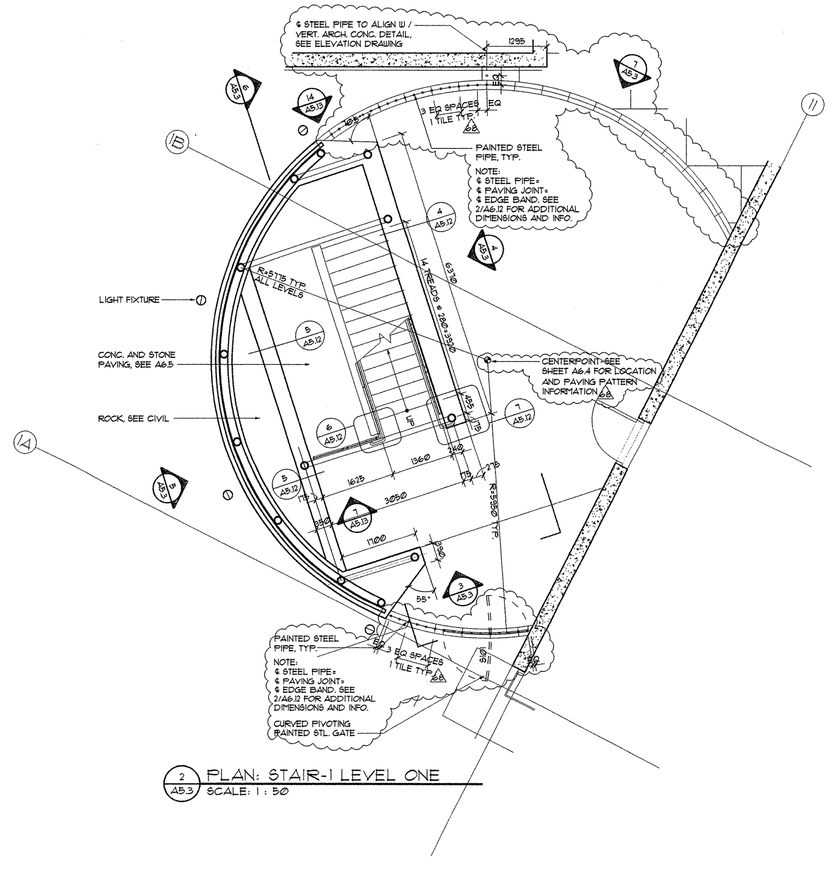
6 A5.3 SECTION: STAIR-1
SCALE: 1 : 50



7 A5.3 ELEVATION: STAIR-1
SCALE: 1 : 50



4 A5.3 WEST ELEVATION: STAIR-1
SCALE: 1 : 50



2 A5.3 PLAN: STAIR-1 LEVEL ONE
SCALE: 1 : 50

FILE NAME: FILE
PLOT VIEW: PLOT
PLOT DATE: DATE/TIME

1 11/12/21 - RFP 1024
2 03/29/22 - RFP 1075

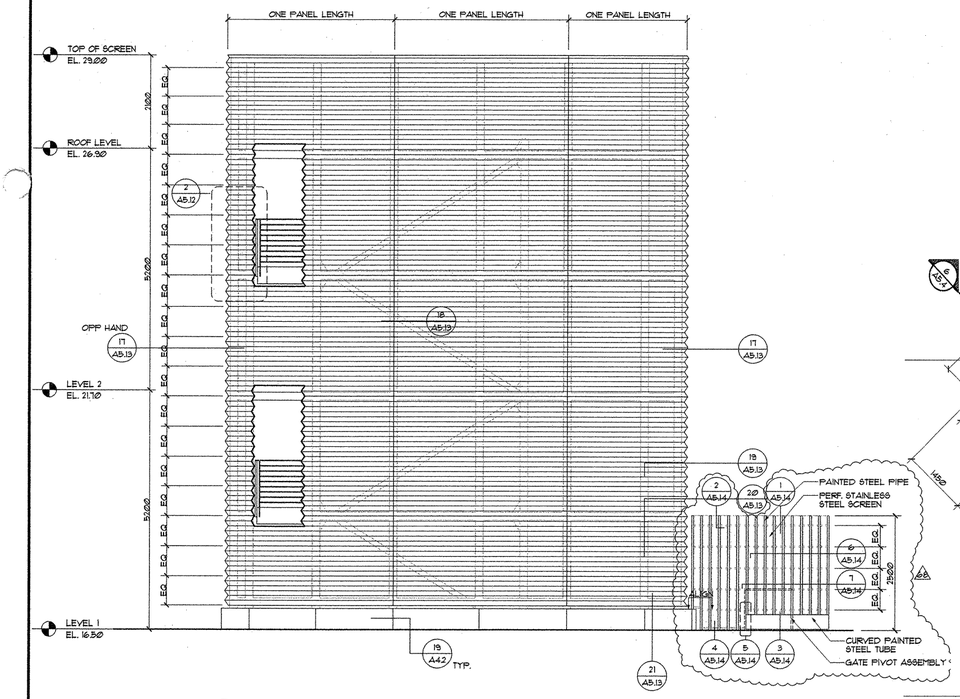
ZIMMER GUNSUL FRASCA PARTNERSHIP
+
HENNINGSON, DURHAM & RICHARDSON, INC.

FDA AT IRVINE

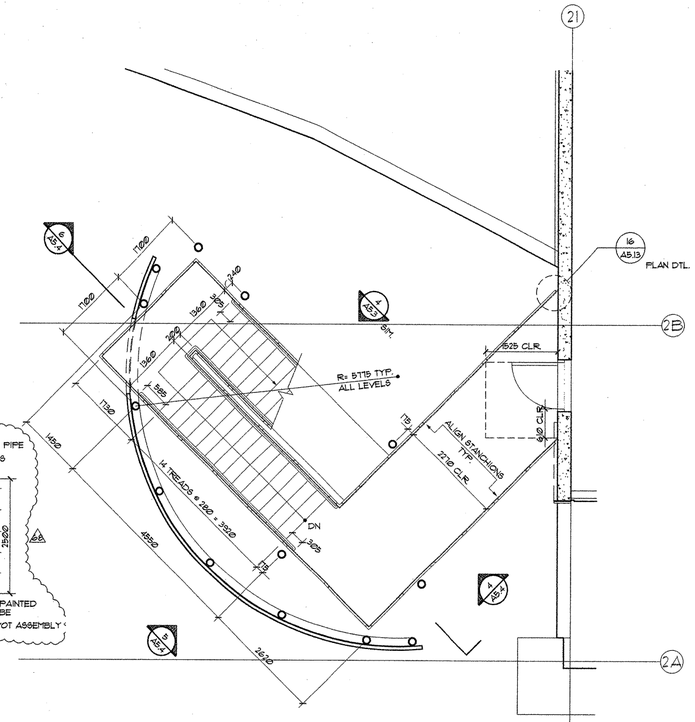
ENLARGED PLANS, SECTION, AND ELEVATIONS – STAIR #1

A5.3

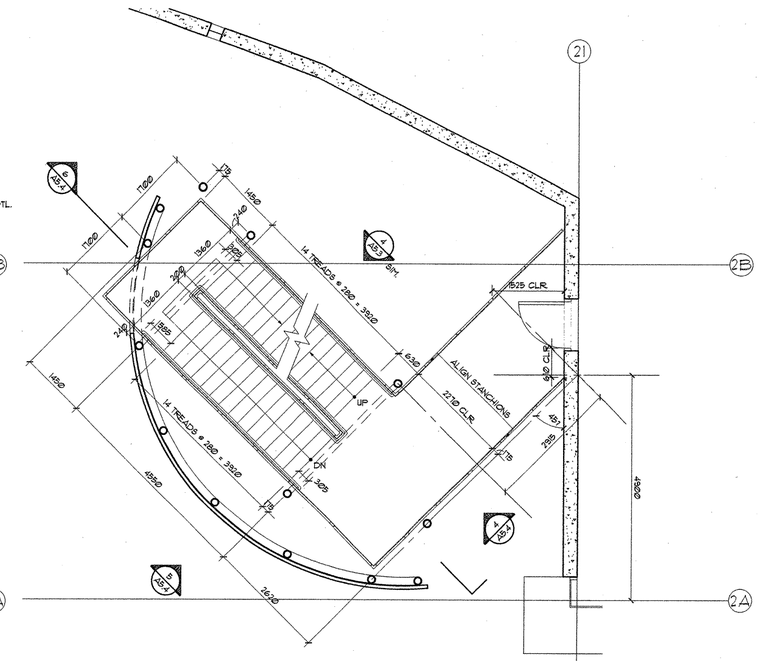
Drawing No – 1.67



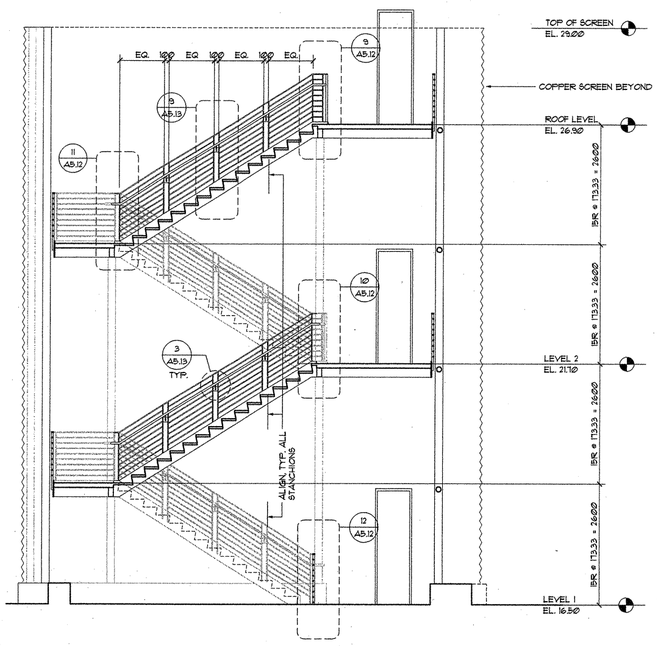
5 A5.4 SCREEN ELEVATION: STAIR-2
SCALE: 1 : 50



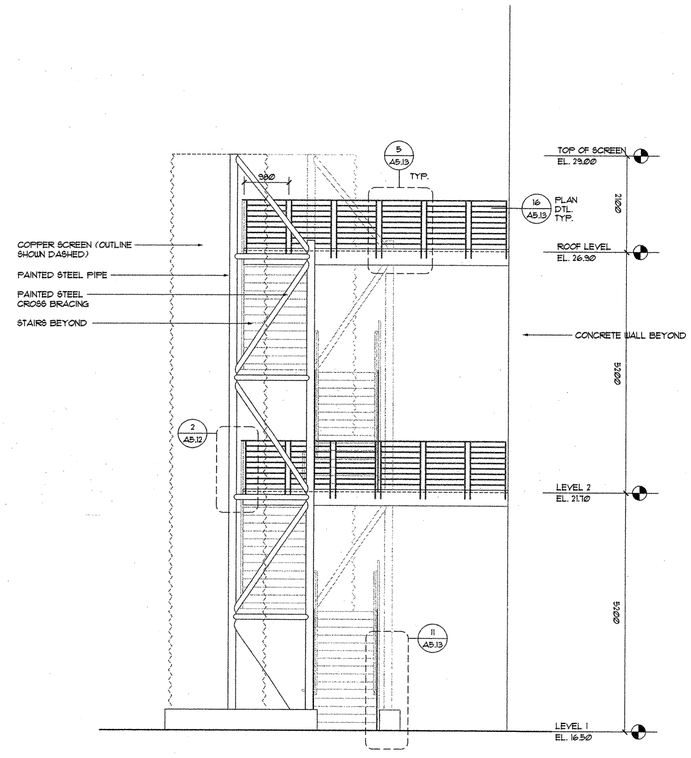
3 A5.4 PLAN: STAIR-2 ROOF LEVEL
SCALE: 1 : 50



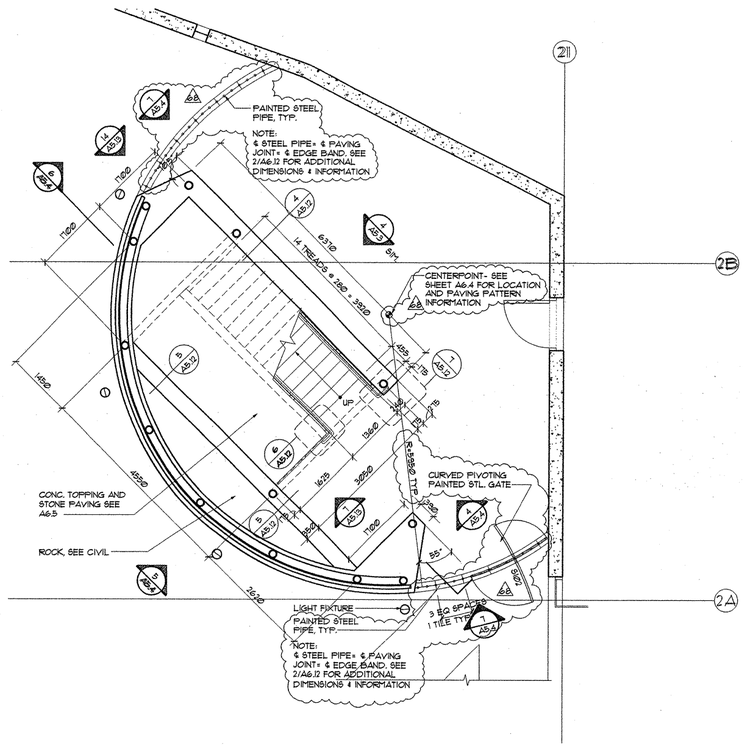
1 A5.4 PLAN: STAIR-2 LEVEL TWO
SCALE: 1 : 50



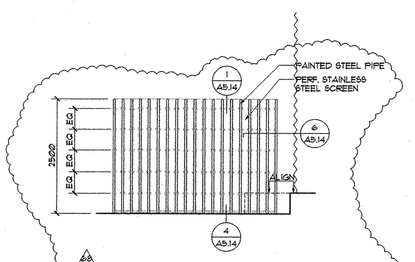
6 A5.4 SECTION: STAIR-2
SCALE: 1 : 50



4 A5.4 ELEVATION: STAIR-2
SCALE: 1 : 50 (STAIR-3 SIM.)



2 A5.4 PLAN: STAIR-2 LEVEL ONE
SCALE: 1 : 50



7 A5.4 ELEVATION: STAIR-2
SCALE: 1 : 50

FILE NAME: FILE
PLOT VIEW: PLOT
PLOT DATE: DATE/TIME

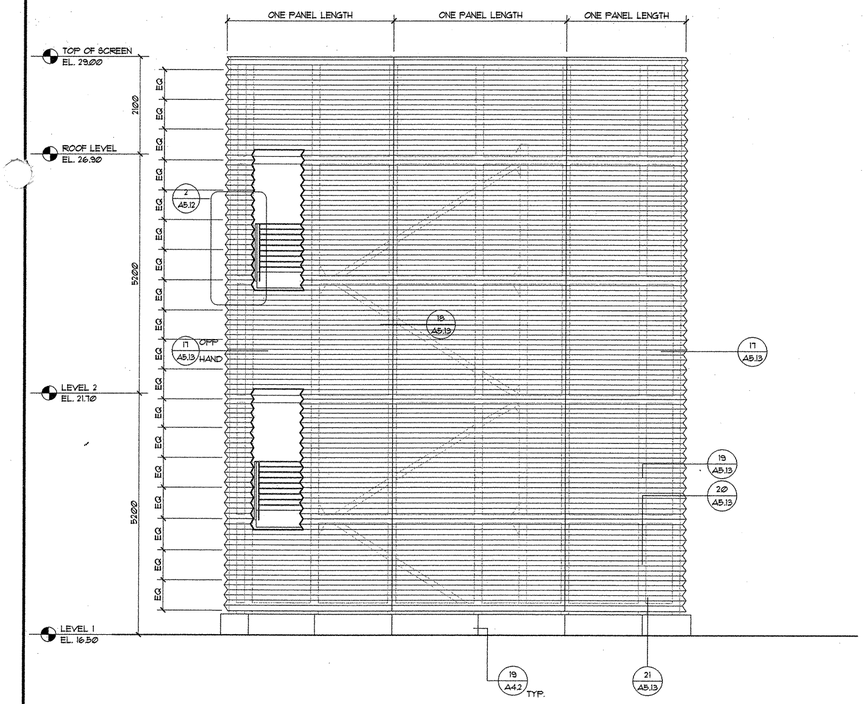
ZIMMER GUNSUL FRASCA PARTNERSHIP
+
HENNINGSON, DURHAM & RICHARDSON, INC.

FDA AT IRVINE

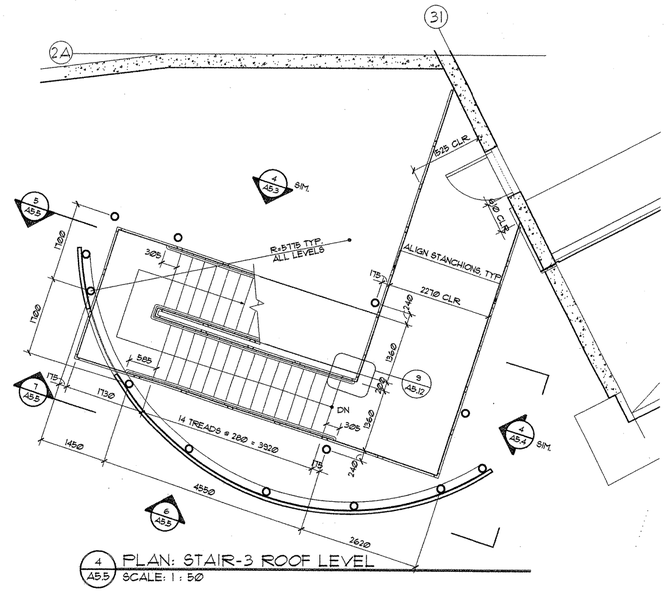
ENLARGED PLANS, SECTION, AND ELEVATIONS – STAIR #2

A5.4

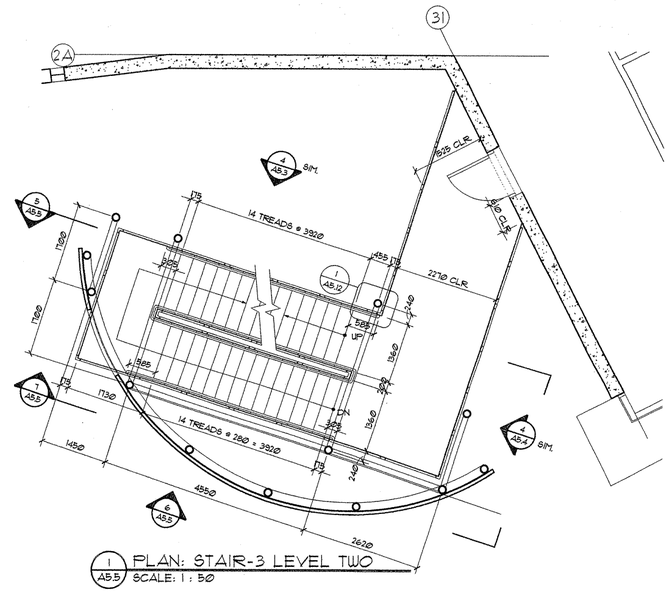
Drawing No – 1.68



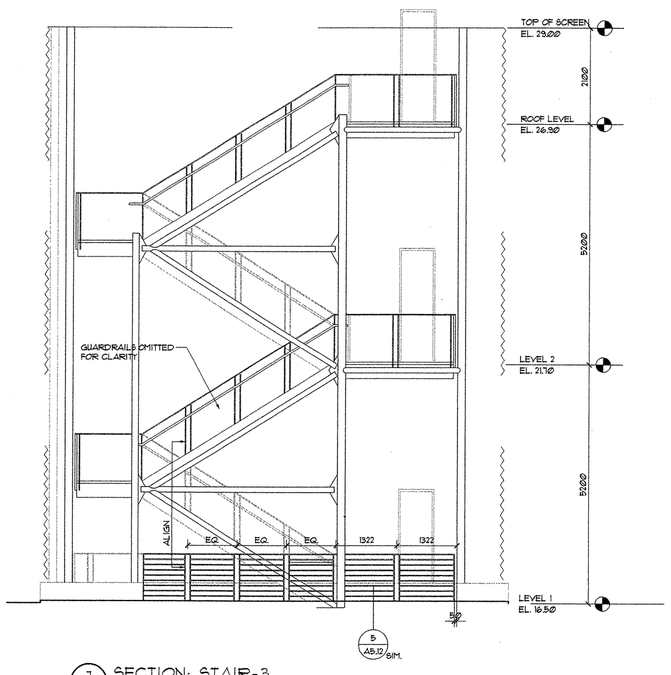
6 A5.5 ELEVATION: STAIR-3
SCALE: 1 : 50



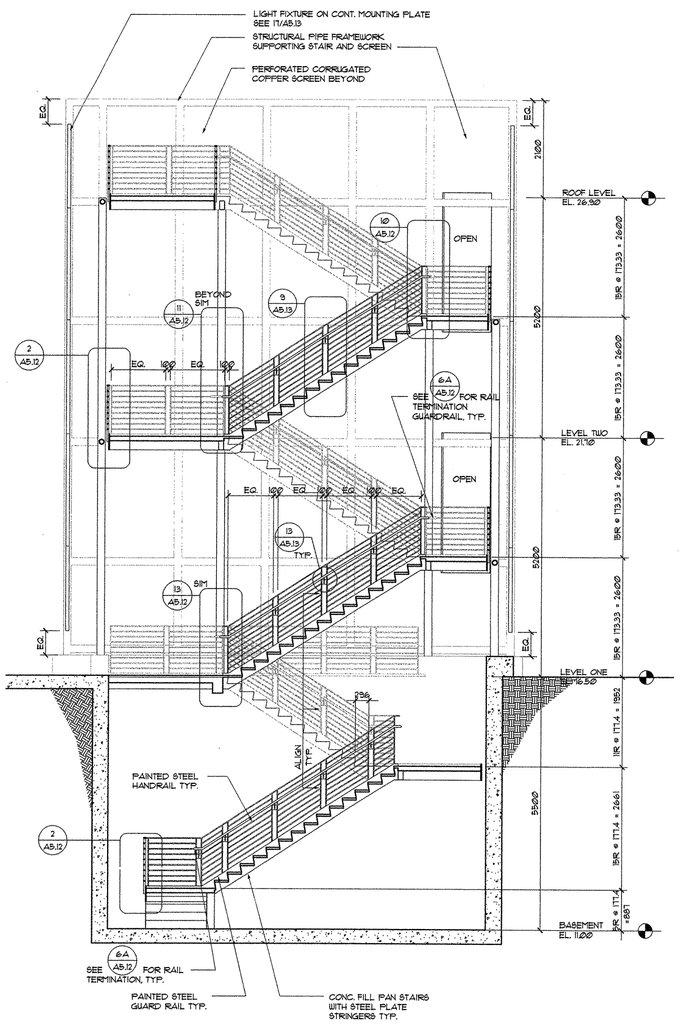
4 A5.5 PLAN: STAIR-3 ROOF LEVEL
SCALE: 1 : 50



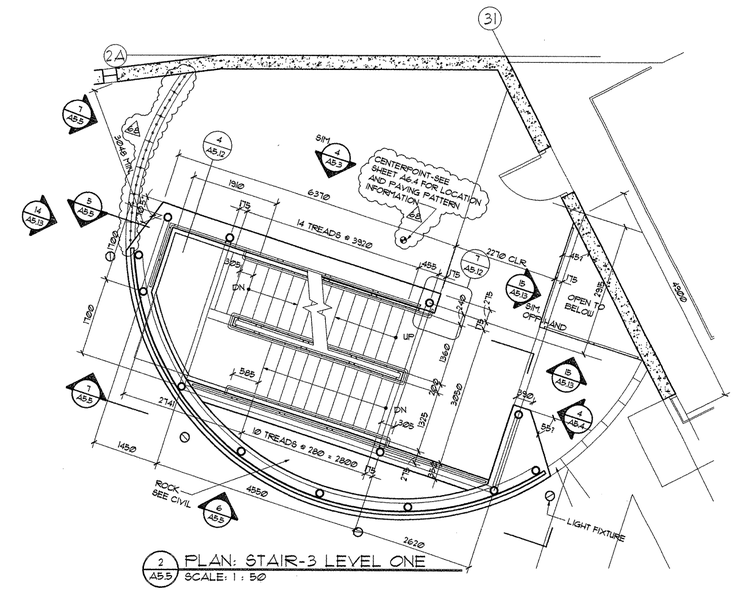
1 A5.5 PLAN: STAIR-3 LEVEL TWO
SCALE: 1 : 50



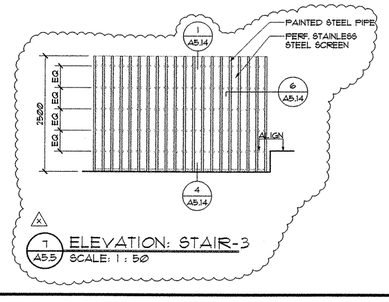
7 A5.5 SECTION: STAIR-3
SCALE: 1 : 50



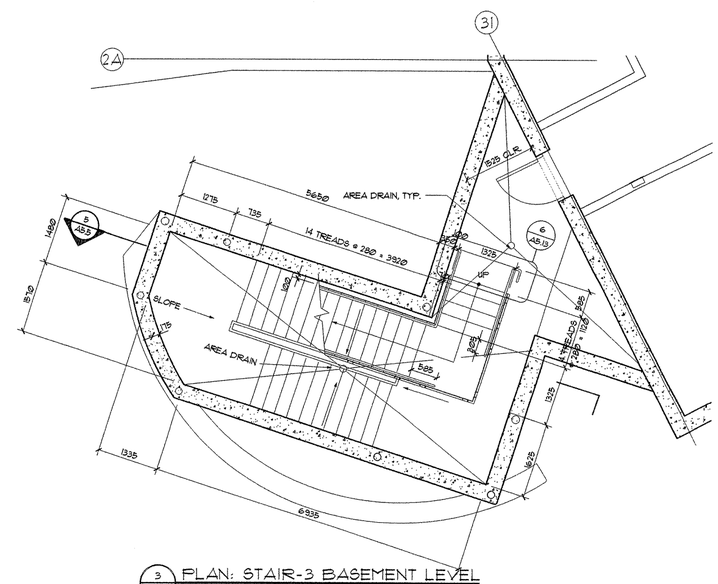
5 A5.5 SECTION: STAIR-3
SCALE: 1 : 50



2 A5.5 PLAN: STAIR-3 LEVEL ONE
SCALE: 1 : 50



7 A5.5 ELEVATION: STAIR-3
SCALE: 1 : 50



3 A5.5 PLAN: STAIR-3 BASEMENT LEVEL
SCALE: 1 : 50

FILE NAME: FILE
PLOT VIEW: PLOT
PLOT DATE: DATE/TIME

REF 106.19 - 09.05.02

ZIMMER GUNSUL FRASCA PARTNERSHIP
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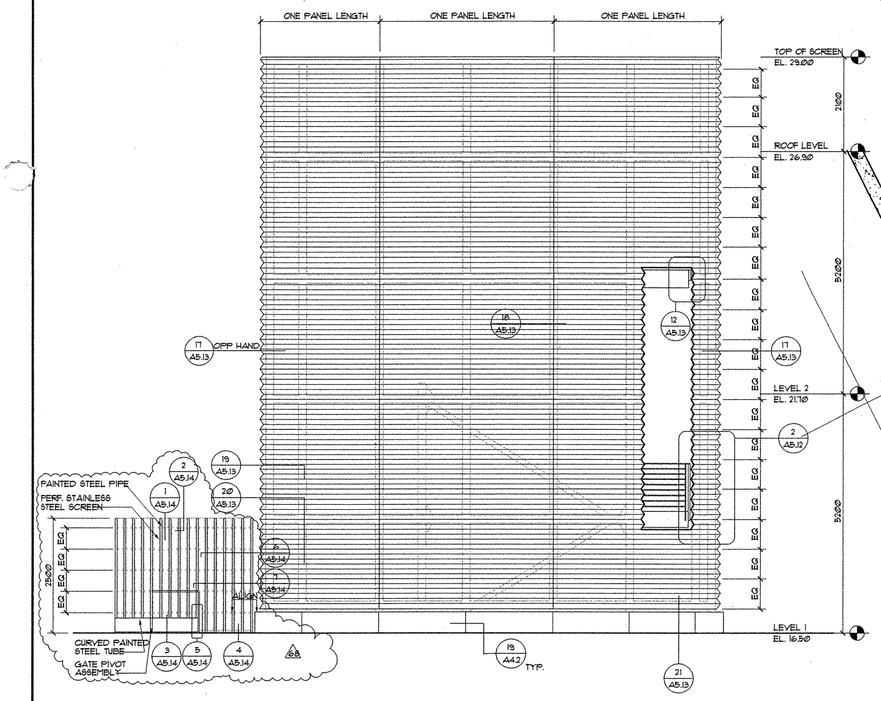
HENNINGSON, DURHAM & RICHARDSON, INC.

ENLARGED PLANS, SECTION, AND ELEVATIONS – STAIR #3

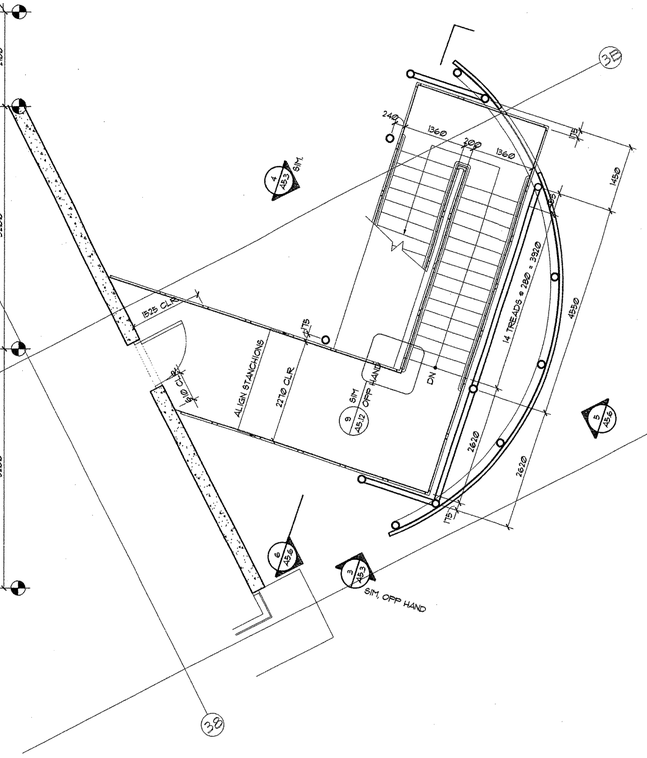
FDA AT IRVINE

A5.5

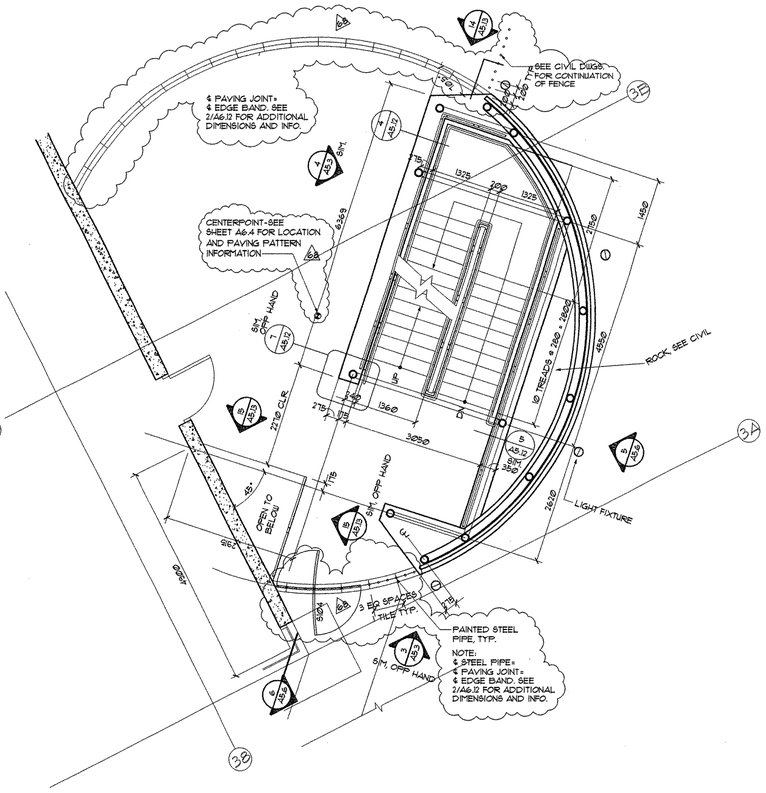
Drawing No – 1.69



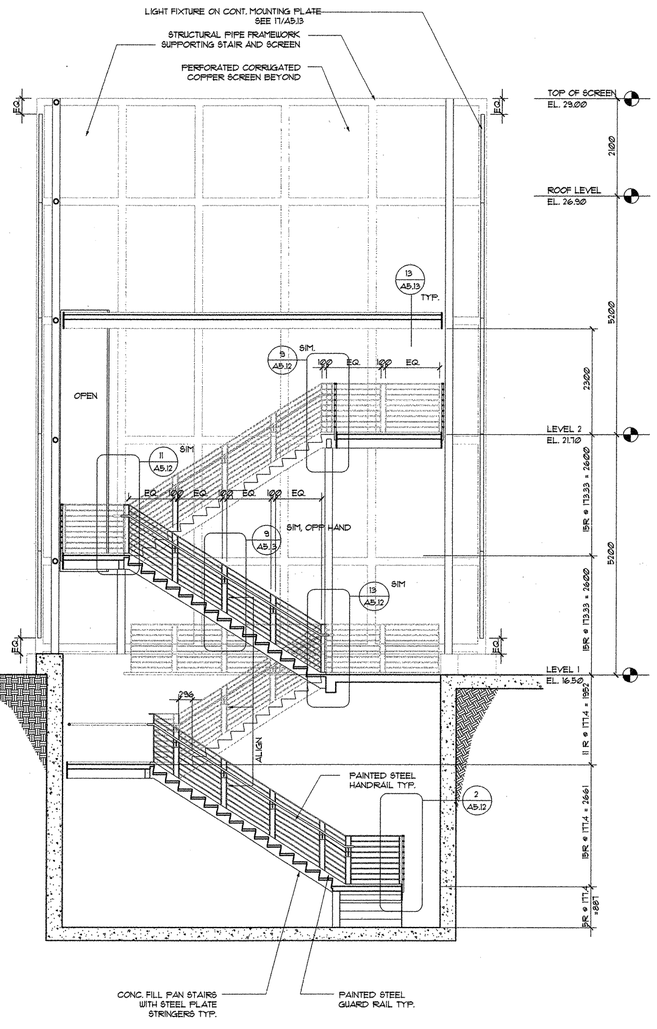
5 A5.6 SCREEN ELEVATION: STAIR-4
SCALE: 1 : 50



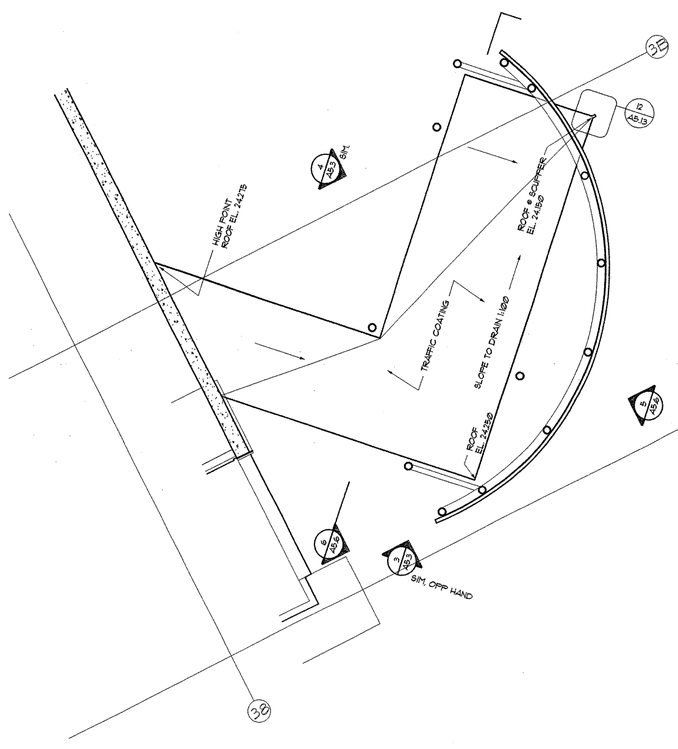
3 A5.6 PLAN: STAIR-4 LEVEL TWO
SCALE: 1 : 50



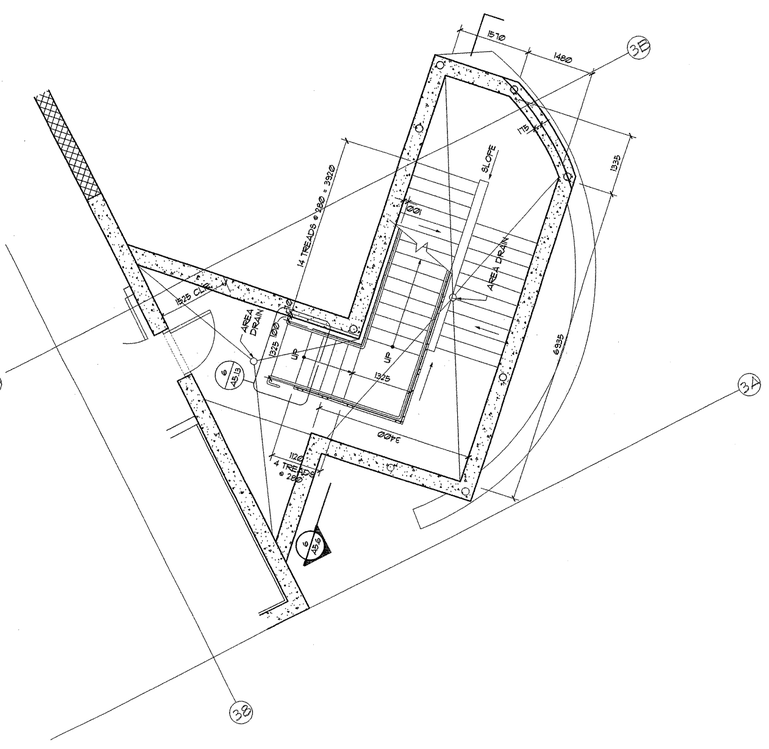
1 A5.6 PLAN: STAIR-4 LEVEL ONE
SCALE: 1 : 20



6 A5.6 SECTION: STAIR-4
SCALE: 1 : 50



4 A5.6 PLAN: STAIR-4 ROOF
SCALE: 1 : 50 (STAIR-1 ROOF SIM, OPP HAND)



2 A5.6 PLAN: STAIR-4 BASEMENT LEVEL
SCALE: 1 : 50

FILE NAME: FILE
PLOT VIEW: PLOT
PLOT DATE: DATE/TIME

03/29/01 - RFP #5-15	

ZIMMER GUNSUL FRASCA PARTNERSHIP
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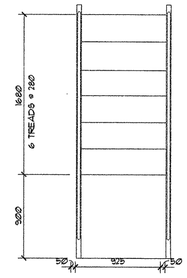
HENNINGSON, DURHAM & RICHARDSON, INC.

FDA AT IRVINE

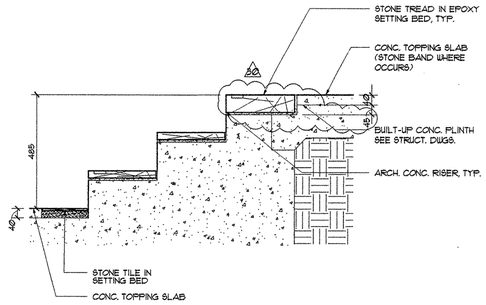
ENLARGED PLANS, SECTION, AND ELEVATIONS – STAIR #4

A5.6

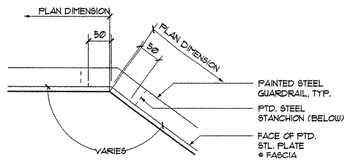
Drawing No – 1.70



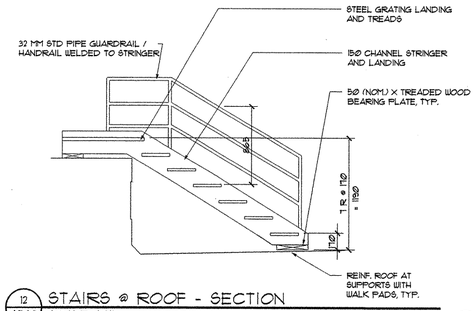
11 A5.10 STAIRS @ ROOF - PLAN
SCALE: 1:25



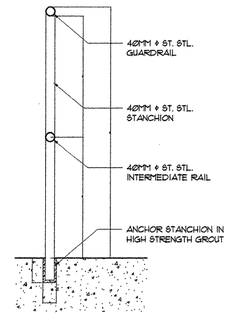
6 A5.10 STAIRS @ LUNCH ROOM
SCALE: 1:10



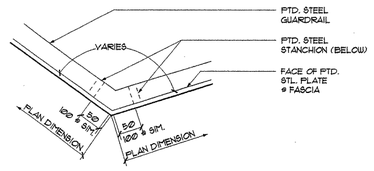
1 A5.10 TYP. EXTERIOR CORNER @ GUARDRAIL
SCALE: 1:5



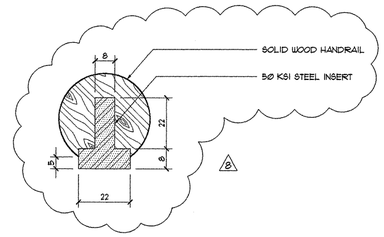
12 A5.10 STAIRS @ ROOF - SECTION
SCALE: 1:25



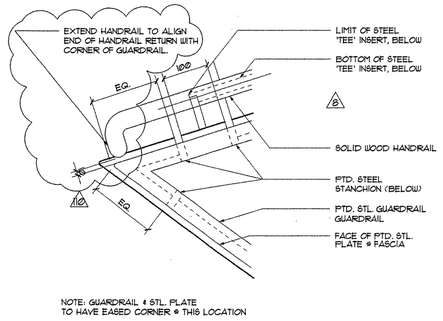
7 A5.10 STAINLESS STEEL GUARDRAIL
SCALE: 1 : 10



2 A5.10 TYP. INTERIOR CORNER @ GUARDRAIL
SCALE: 1:5

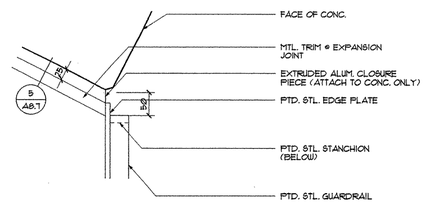


8 A5.10 STEEL INSERT @ WOOD HANDRAIL
SCALE: 1:5



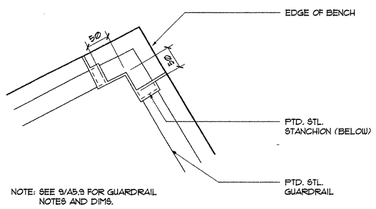
NOTE: GUARDRAIL & STL. PLATE TO HAVE EASED CORNER @ THIS LOCATION

3 A5.10 INTERIOR CORNER @ INTERIOR STAIR
SCALE: 1:5



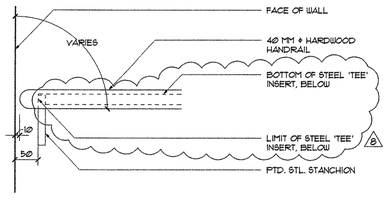
NOTE: SEE 12/A8.6 & 10/A8.12 FOR ADD'L EXPANSION JOINT INFO

9 A5.10 GUARDRAIL @ EXPANSION JOINT
SCALE: 1:5

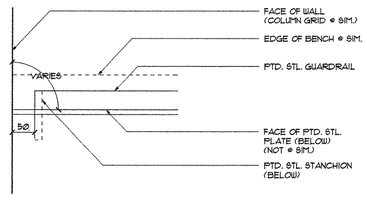


NOTE: SEE 9/A5.9 FOR GUARDRAIL NOTES AND DIMS.

4 A5.10 GUARDRAIL @ LIBRARY RAMP BENCH
SCALE: 1:5



10 A5.10 HANDRAIL TERMINATION @ RAMP
SCALE: 1:5



NOTE: 50 MM CLEARANCE OCCURS @ NEAREST POINT OF GUARDRAIL TO WALL, TYP.

5 A5.10 TYP. GUARDRAIL TERMINATION @ WALL
SCALE: 1:5

FILE NAME: L:\60084.FDA\CAD\PLOTS\A5-10.DWG
PLOT VIEW:
PLOT DATE/TIME

08/13/21	ASI 1054
01/23/22	RFI #441
05/21/23	RFP #15

ZIMMER GUNSUL FRASCA PARTNERSHIP
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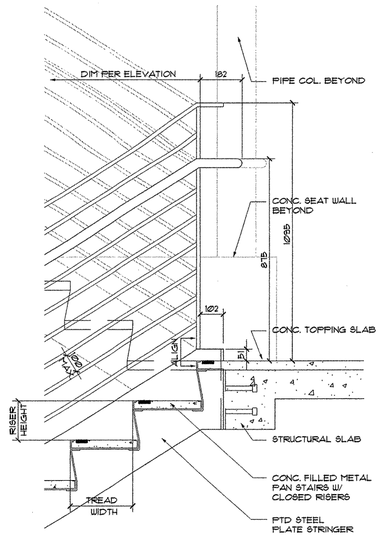
HENNINGSON, DURHAM & RICHARDSON, INC.

FDA AT IRVINE

STAIR AND RAILING DETAILS

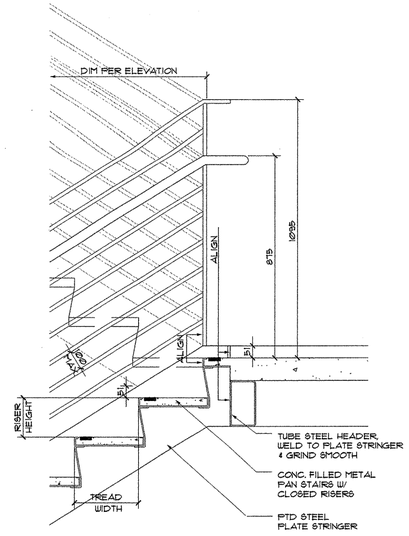
A5.10

Drawing No – 1.73



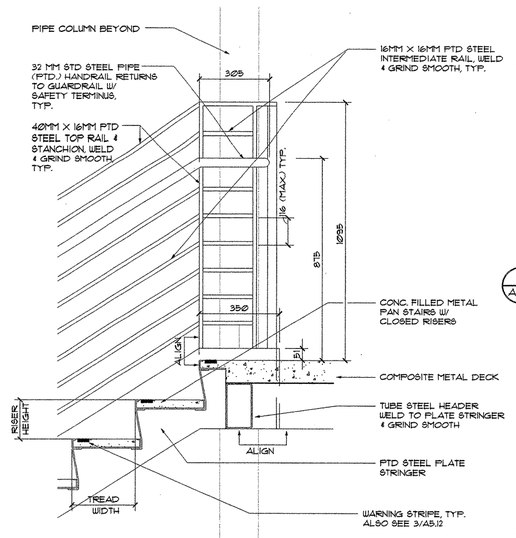
NOTE:
SEE 9/A5.12 FOR NOTES & DIMENSIONS

13 A5.12 STAIR @ LEVEL ONE
SCALE: 1 : 10

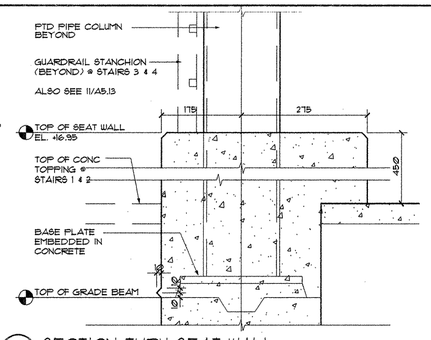


NOTE:
SEE 9/A5.12 FOR ADDITIONAL NOTES & DIMENSIONS

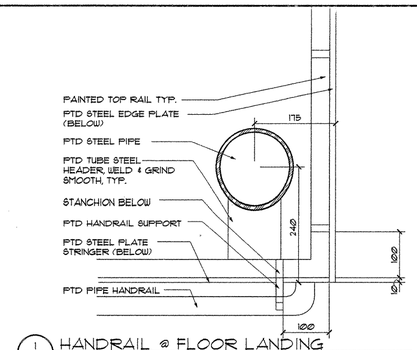
10 A5.12 STAIR AT LANDING
SCALE: 1 : 10



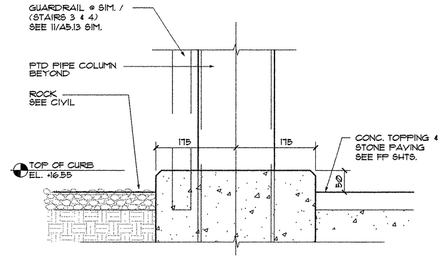
9 A5.12 STAIR AT TOP LANDING
SCALE: 1 : 10



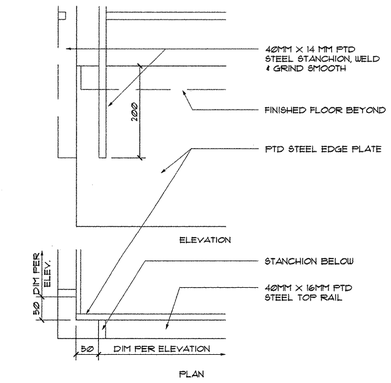
4 A5.12 SECTION THRU SEAT WALL
SCALE: 1 : 5



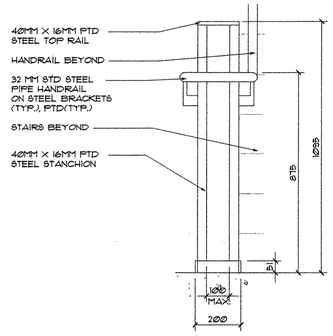
1 A5.12 HANDRAIL @ FLOOR LANDING
SCALE: 1 : 5



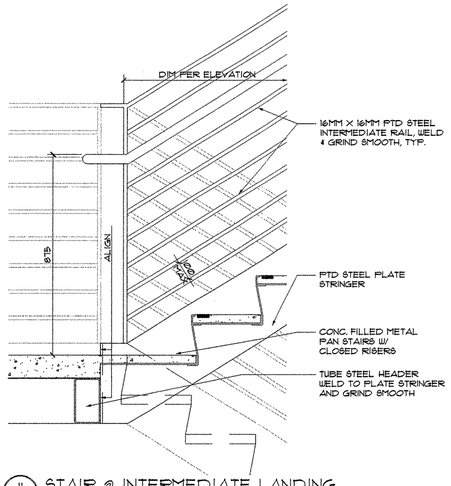
5 A5.12 SECTION THRU CONCRETE CURB
SCALE: 1 : 5



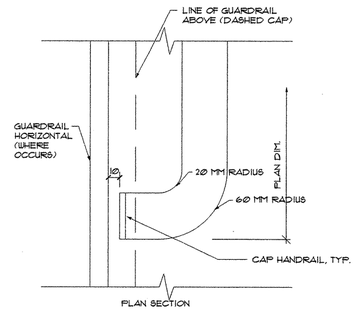
2 A5.12 RAIL STANCHION @ OUTSIDE CORNER
SCALE: 1 : 5



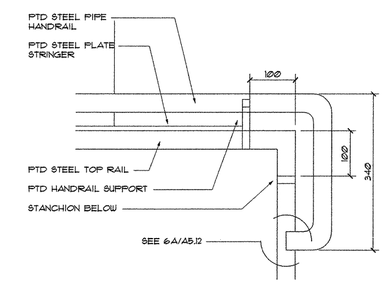
14 A5.12 END OF RAIL ELEV @ LANDING
SCALE: 1 : 10



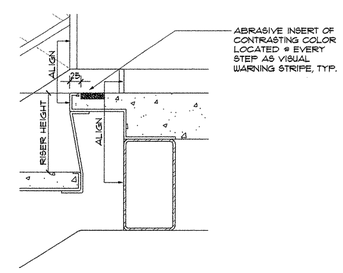
11 A5.12 STAIR @ INTERMEDIATE LANDING
SCALE: 1 : 10



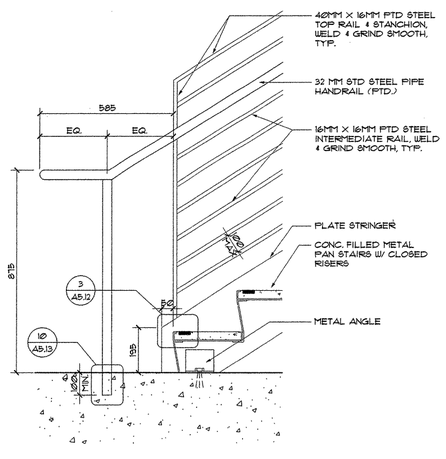
6A A5.12 HANDRAIL TERMINATION @ GUARDRAIL
SCALE: 1 : 2



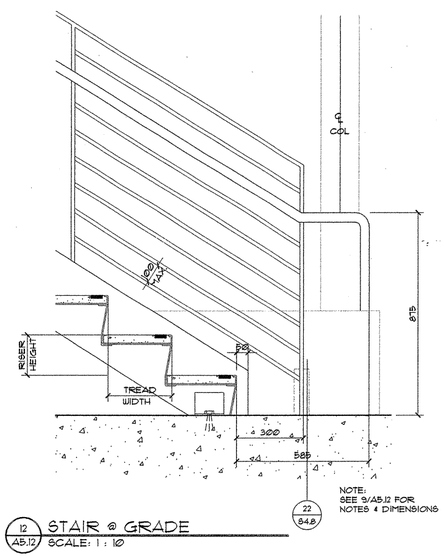
6 A5.12 HANDRAIL @ GRADE
SCALE: 1 : 5



3 A5.12 NOSING @ EXTERIOR STEPS
SCALE: 1 : 5



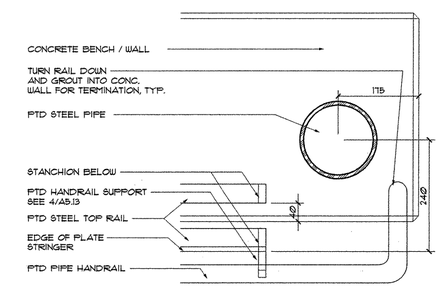
15 A5.12 HANDRAIL AT BASEMENT
SCALE: 1 : 10



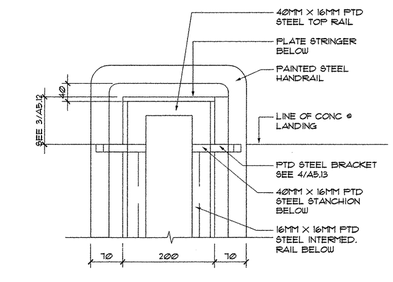
NOTE:
SEE 9/A5.12 FOR NOTES & DIMENSIONS

22 A4.8

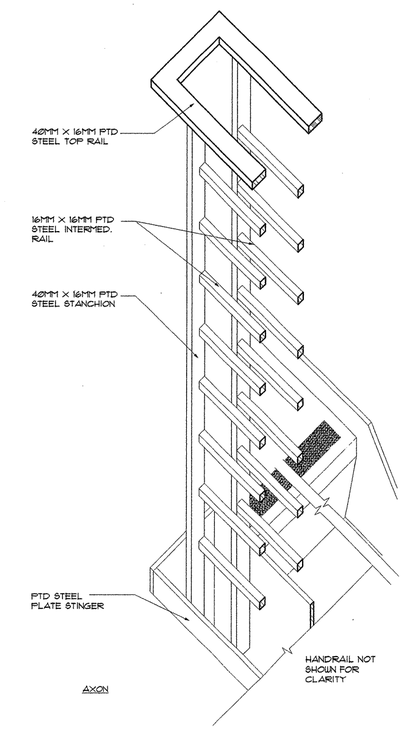
12 A5.12 STAIR @ GRADE
SCALE: 1 : 10



7 A5.12 HANDRAIL @ GRADE
SCALE: 1 : 5



8 A5.12 PLAN: INTERIOR CORNER TYP
SCALE: 1 : 5



AXON

FILE NAME: L:\60084.FDA\CADS\PLOTS\A5-12.DWG
PLOT VIEW: PLOT
PLOT DATE: 4/30/98

ZIMMER GUNSUL FRASCA PARTNERSHIP
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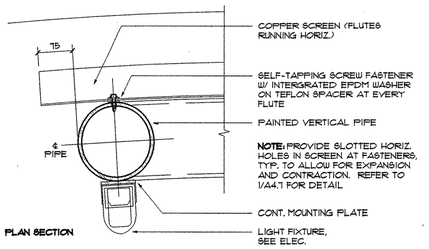
HENNINGSON, DURHAM & RICHARDSON, INC.

FDA AT IRVINE

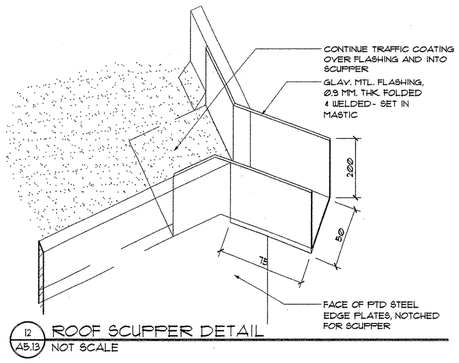
EXTERIOR STAIR DETAILS

A5.12

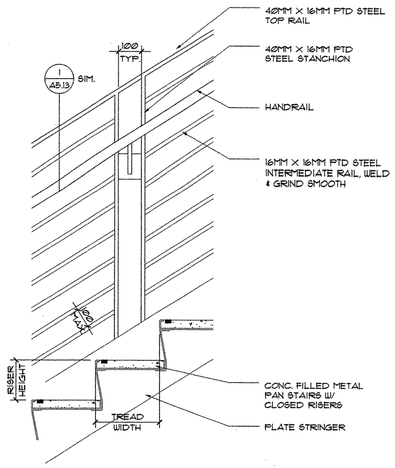
Drawing No – 1.74



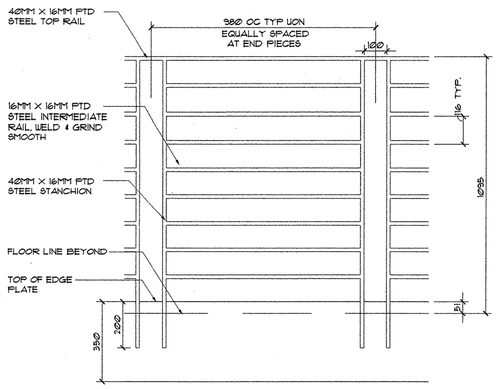
17 A5.13 COPPER SCREEN TERMINATION
SCALE: 1 : 5



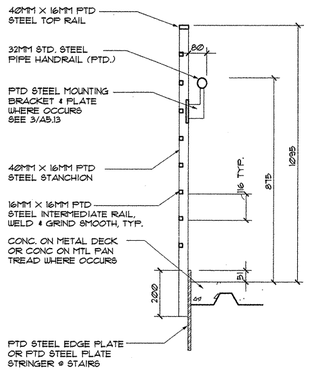
12 A5.13 ROOF SCUPPER DETAIL
NOT SCALE



9 A5.13 TYPICAL GUARDRAIL
SCALE: 1 : 10



5 A5.13 ELEVATION OF TYPICAL GUARDRAIL
SCALE: 1 : 10



1 A5.13 TYPICAL GUARDRAIL
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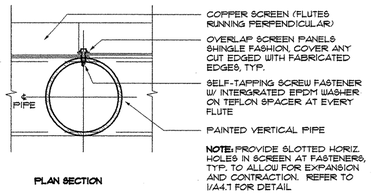
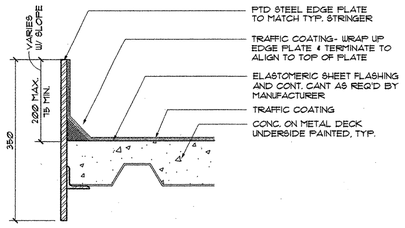
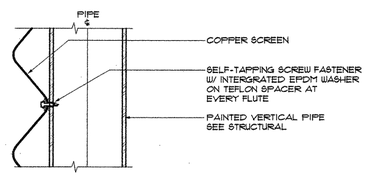


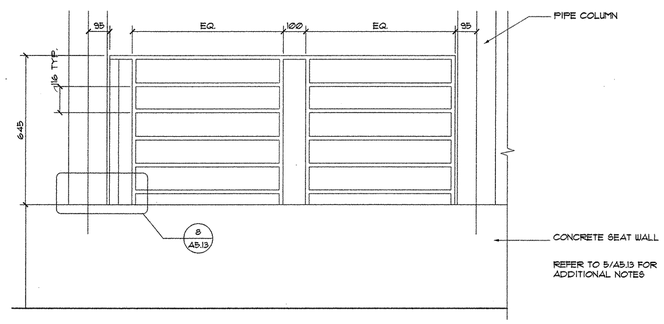
18 A5.13 COPPER SCREEN: PANEL OVERLAP
SCALE: 1 : 5



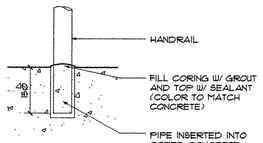
13 A5.13 ROOF DETAIL
SCALE: 1 : 5



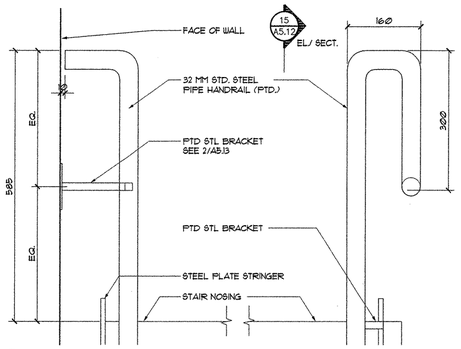
19 A5.13 COPPER SCREEN: TYPICAL CONNECTION
SCALE: 1 : 5



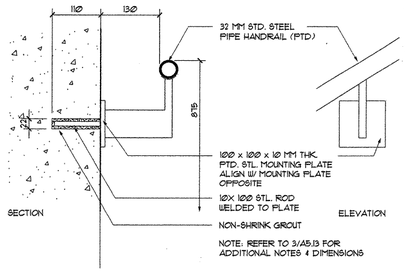
14 A5.13 ELEVATION OF GUARDRAIL @ SEAT WALL
SCALE: 1 : 10



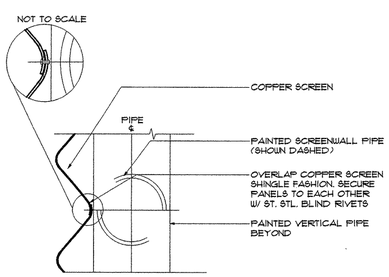
10 A5.13 HANDRAIL ANCHOR
SCALE: 1 : 5



6 A5.13 HANDRAIL TERMINATION @ BASEMENT
SCALE: 1:5



2 A5.13 HANDRAIL @ CONC. WALL
SCALE: 1:5



20 A5.13 COPPER SCREEN: PANEL OVERLAP
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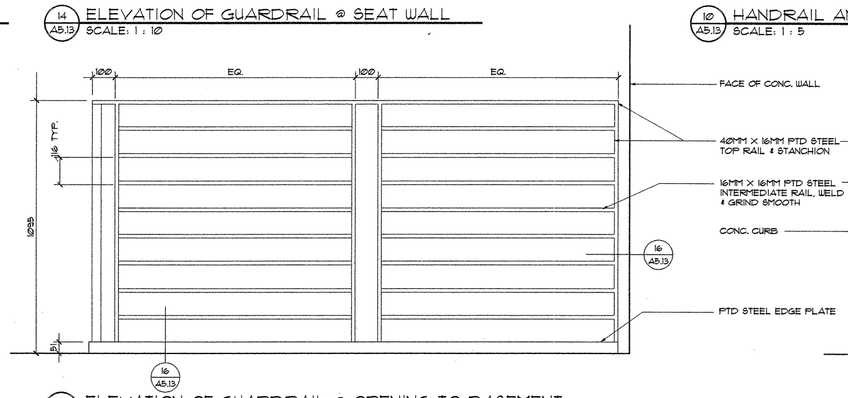
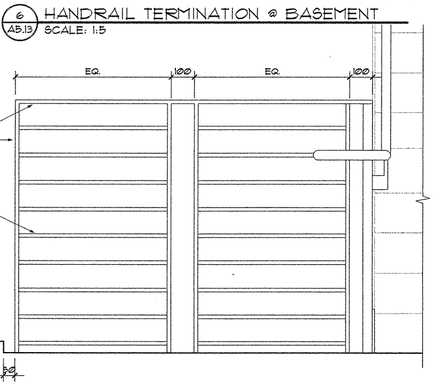
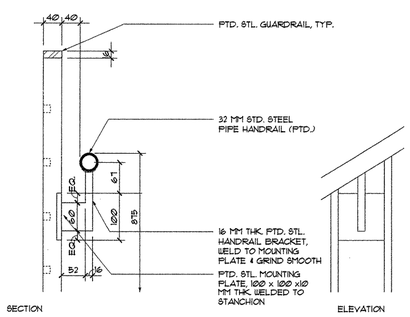


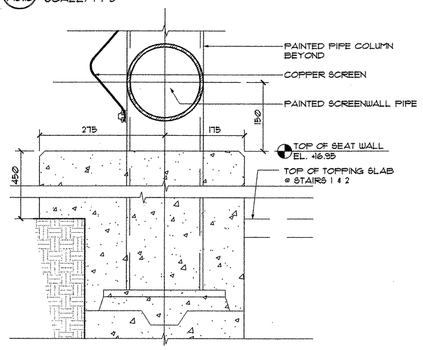
15 A5.13 ELEVATION OF GUARDRAIL @ OPENING TO BASEMENT
SCALE: 1 : 10



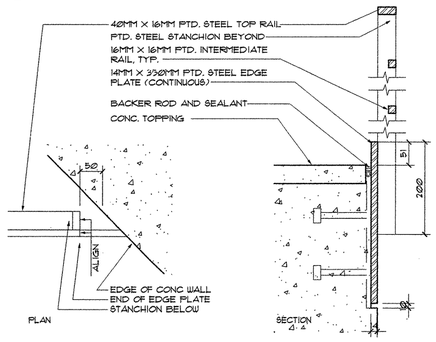
7 A5.13 ELEVATION OF GUARDRAIL @ GRADE FLOOR
SCALE: 1 : 10



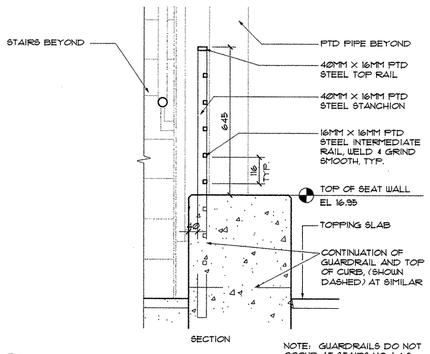
3 A5.13 HANDRAIL SUPPORT BET. STANCHIONS
SCALE: 1:5



21 A5.13 SECTION THRU SEAT WALL @ SCREEN
SCALE: 1 : 5

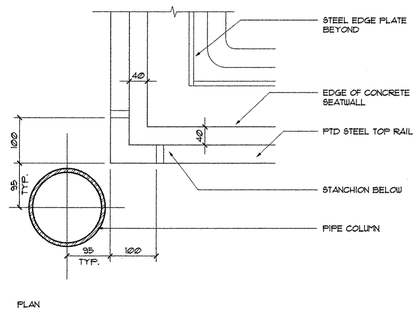


16 A5.13 GUARDRAIL @ OPENING TO BASEMENT
SCALE: 1:5

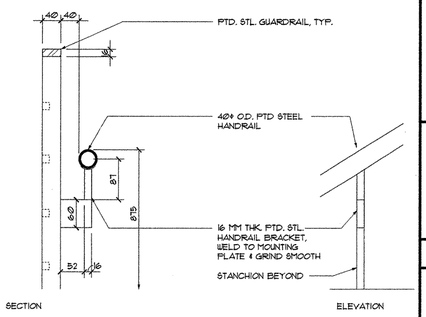


NOTE: GUARDRAILS DO NOT OCCUR AT STAIRS NO. 1 & 2 TYPICAL

11 A5.13 GUARDRAIL @ SEAT WALL
SCALE: 1 : 10



8 A5.13 OUTSIDE CORNER @ SEATWALL
SCALE: 1:5



4 A5.13 HANDRAIL SUPPORT @ END PANEL
SCALE: 1:5

ZIMMER GUNSUL FRASCA PARTNERSHIP
+
HENNINGSON, DURHAM & RICHARDSON, INC.

FDA AT IRVINE

EXTERIOR STAIR DETAILS

A5.13

Drawing No - 1.75

FILE NAME: L:\60084.FDA\CADS\PLOTS\A5-13.DWG
PLOT VIEW:
PLOT DATE: 4/30/98

AS-BUILT SPEC FOR REFERNCE ONLY

PART 1 - GENERAL

1.1 SUMMARY:

A. Section includes polyurethane coating system applied to metal surfaces specified in other Sections, including surface preparation, prime coats, intermediate coats, and finish coats.

1. Surfaces to be coated include the following:

a. Steel of Exterior Stairs, Guardrails, and Handrails.

b. Steel Structures of Stair Screens, and Sunscreens.

c. Exposed Structural Steel (Exterior and Interior).

d. In the areas specified above, apply also to metal doors and frames, exposed piping, conduit, brackets, bolts, fasteners, supports, except for factory finished items where custom color is specified or stainless steel items.

2. Special coating system is a two-component, pigmented, aliphatic, polyurethane coating.

3. Special coatings may be applied in the shop, before delivery to site, or in the field before or after installation.

B. Colors are specified in Section 09900 Painting.

1.2 SUBMITTALS:

A. Submit the following in accordance with Section 01300.

1. Product Data:

a. Provide the manufacturer's technical information, including label analysis and instructions for handling, storing, and applying each material proposed for use. Show wet and dry film build.

b. List each material and cross-reference the specific coating, finish system, and application. Identify each material by the manufacturer's catalog number and general classification.

c. Certification by manufacturer that products supplied comply with local regulations controlling use of volatile organic compounds (VOCs).

2. Samples of each color and material to be applied with texture to simulate actual conditions on representative samples of the actual substrate.

a. Provide stepped samples, defining each separate coat, including primers. Use representative colors when preparing samples for review. Resubmit until the required sheen, color, and texture are achieved.

b. Provide a list of material and application for each coat of each sample. Label each sample as to location and application.

c. Submit two 100 mm square samples of each color and finish on ferrous metal for the Architect's review of color and texture.

3. Submit Qualification data for manufacturers and applicators specified in "Quality Assurance" article to demonstrate their capabilities and experience.

1.3 QUALITY ASSURANCE:

A. Applicator Qualifications: Engage an experienced applicator who has successfully completed coating system applications similar in material and extent to those indicated for the Project.

B. Single-Source Responsibility: Provide primers and undercoat material produced by the same manufacturer as the finish coats for each type of coating. Use only thinners recommended by the manufacturer and only within recommended limits.

C. Field Samples: On each type of surface, duplicate finishes of prepared samples. Provide full-coat finish samples on at least 4 square meters of surface until required sheen, color, and texture are obtained. Provide light exterior natural conditions for reviewing in-place Work.

1. Final acceptance of colors will be from field applied samples.

2. Architect will select one surface to represent surfaces and conditions for each type of coating and substrate to be coated. Apply coatings on surface according to the sample schedule. After finishes are accepted, sample surface will be used for evaluation of coating systems of a similar nature.

1.4 DELIVERY, STORAGE, AND HANDLING:

A. Deliver materials to the place of application in the manufacturer's original, new, unopened packages, and containers bearing manufacturer's name and label, and the following information.

1. Name or title of material.

2. Product description (generic classification or binder type).

3. Manufacturer's name, stock number and date of manufacture.

4. Contents by volume, for major pigment and vehicle constituents.

5. Thinning instructions.

6. Application instructions.

7. Color name and number.

8. Handling instructions and precautions.

B. Store materials not in use in tightly covered containers in a well-ventilated area at a minimum ambient temperature of 8° C. Maintain containers used in storage in a clean condition, free of foreign materials and residue.

1.5 PROJECT CONDITIONS:

A. Coatings shall be applied only when the temperature of surfaces to be coated and surrounding air temperatures are between 8° C and 35° C.

B. Do not apply coatings in snow, rain, fog, or mist; when relative humidity exceeds 85 percent; at temperatures less than 3° C above dew point; or to damp or wet surfaces.

1. Allow wet surfaces to dry thoroughly and attain the temperature and conditions specified before proceeding with or continuing the coating operation.

2. Work may continue during inclement weather only if areas and surfaces to be coated are enclosed and the temperature within the area can be maintained within limits specified by the manufacturer during application and drying periods.

PART 2 - PRODUCTS

2.1 MANUFACTURERS:

A. Subject to compliance with specification requirements, producers offering products that may be incorporated into the Work include:

1. Sherwin Williams

2. Tnemec

3. Ameron

2.2 SPECIAL COATING MATERIALS, GENERAL:

A. Material Compatibility: Provide primers, finish coat materials, and related materials that are compatible with one another and the substrates indicated under conditions of service and application as demonstrated by the manufacturer based on testing and field experience.

B. Material Quality: Provide the highest grade of the various coatings as regularly manufactured by acceptable coating manufacturers. Materials not displaying manufacturer's identification as a best-grade product will not be acceptable.

C. Colors: Provide custom colors of the finished coating systems as specified in Section 09900.

2.3 PRIMERS:

A. Galvanized Steel:

1. Provide the manufacturer's recommended factory-formulated wash primer, 0.007 -0.013 mm thick dry film thickness, that is compatible with the substrate and finish materials indicated.

2. Available Manufacturers and Products are subject to compliance with requirements, wash primers that may be incorporated in the Work include, but are not limited to:

a. Wash Primer for Galvanized Metal P60G2 by Sherwin Williams.

b. Tnemec-Grip 32-1210 Vinyl Acid Wash Primer by Tnemec.

c. 178 Vinyl Wash Primer by Ameron.

B. Other Steel:

1. Provide the manufacturer's recommended factory-formulated zinc-rich primer, 0.1 mm thick dry film thickness, that is compatible with the substrate and finish materials indicated.

2. Available Manufacturers and Products are subject to compliance with requirements, zinc-rich primers that may be incorporated in the Work include, but are not limited to:

a. Zinc Clad 5 organic zinc-rich primer B69A45 by Sherwin Williams.

b. Zinc-rich product by Tnemec or Ameron, as recommended by the manufacturer.

C. Aluminum and Other Materials:

1. Provide the manufacturer's recommended factory-formulated primers that are compatible with substrates encountered and finish materials specified.

2.4 INTERMEDIATE COAT MATERIALS:

A. Provide the manufacturer's recommended factory-formulated intermediate coat that is compatible with the substrate and primer, and the finish materials indicated.

B. Available Manufacturers and Products are subject to compliance with requirements, intermediate coat materials that may be incorporated in the Work include, but are not limited to:

1. Hi-Build Aliphatic Polyurethane, B65 Series/B60V2 by Sherwin Williams.

2. Series 69 Hi-Build Epoxoline II by Tnemec.

3. Amer-Lock 400 Hi-Build Epoxy by Ameron.

C. Touch-Up Primer: Provide the manufacturer's recommended factory-formulated Touch-Up Primer that is compatible with the substrate, wash primer, intermediate coat, and the finish materials indicated.

D. Available Touch-Up Manufacturers and Products are subject to compliance with requirements, touch-up materials that may be incorporated in the Work include, but are not limited to:

1. Zinc Clad 5 organic zinc-rich primer B69A45, 4.0 mils dry film thickness by Sherwin Williams.

2. Zinc-rich product by Tnemec or Ameron, as recommended by the manufacturer.

2.5 FINISH COAT MATERIALS:

A. Provide the manufacturer's recommended factory-formulated Pigmented, Aliphatic, Polyurethane finish-coat materials that are compatible with the substrate and base coat materials.

1. Physical Properties of Topcoat:

a. Abrasion Resistance; ASTM D 4060, Taber CS-17 wheel, 1000 cycles, 1 kg weight: 155 mg loss.

b. Pencil Hardness; ASTM D 3363: B.

c. Salt Fog Resistance; ASTM B 117, 1000 hours: "Excellent".

d. Scrub Resistance; ASTM D 2486, 10,000 cycles: No gloss change.

2. Provide system recommended by manufacturer for future field repair by untrained applicators employed by Owner.

3. Applicator shall be approved in writing by Coating Manufacturer.

B. Available Manufacturers and Products are subject to compliance with requirements, finish coat materials that may be incorporated in the Work include, but are not limited to:

1. Hi-Build Aliphatic Polyurethane, B65 Series/B60V2 by Sherwin Williams.

2. Series 74 & 75 Endura-Shield by Tnemec.

3. AmerShield Aliphatic Polyurethane by Ameron.

2.6 SHOP FINISHING:

A. Examine substrates and conditions under which coatings will be applied for compliance with requirements on applying coatings. Surfaces to receive coatings must be thoroughly dry before coatings are applied.

1. Do not proceed with coating application until unsatisfactory conditions have been corrected.

2. Start of application will be construed as the Applicator's acceptance of surfaces within that particular area.

B. Coordinating Work: Review sections in which other coatings are provided to ensure compatibility of the total systems for various substrates. On request, furnish information on the characteristics of specified finish materials to ensure compatible primers.

1. Notify the Construction Manager of problems anticipated using the coatings specified over substrates primed under other sections.

C. Cleaning: Before applying coatings or other surface treatments, clean substrates of substances that could impair bond of the various coatings. Remove oil and grease prior to cleaning. Schedule cleaning and coating application so dust and other contaminates from the cleaning process will not fall on wet, newly coated surfaces.

D. Surface Preparation: Clean and prepare surfaces to be coated according to the manufacturer's instructions for each particular substrate condition and as specified.

1. Provide barrier coats over incompatible primers, or remove and reprime. Notify the Construction Manager in writing of problems anticipated when using the specified finish-coat material with substrates primed under other sections or other contracts.

2. Ferrous Metal: Clean ungalvanized ferrous metal surfaces that have not been shop-coated; remove oil, grease, dirt, loose mill scale and other foreign substances. Use solvent or mechanical cleaning methods that comply with the recommendations of the Steel Structures Painting Council.

a. Blast-clean steel surfaces as recommended by the coating system manufacturer and in accordance with SSPC Specification SSPC-SP 10.

b. Treat bare and sandblasted metal with a metal-treatment wash coat prior to priming.

c. Touch-up shop-applied prime coats that have been damaged and bare areas. Wire-brush, solvent clean, and touch-up with the same primer as the shop coat.

E. Material Preparation: Carefully mix and prepare materials according to the coating manufacturer's directions.

1. Maintain containers used in mixing and application of coatings according to the manufacturer's directions.

2. Stir materials before applying to produce a mixture of uniform density; stir as required during application. Do not stir surface film into the material. Remove film and, if necessary, strain the coating material before using.

3. Use only the type of thinners approved by the manufacturer and only within recommended limits.

F. Tinting: Tint each undercoat a lighter shade to facilitate identifying each coat where multiple coats of the same material are to be applied. Tint undercoats to match the color of the finish coat, but provide sufficient difference in shade of undercoats to distinguish each separate coat.

G. Application, General: Apply special coatings by brush, roller, spray, squeegee, or other applicators according to the manufacturer's directions. Use brushes best suited for the material being applied. Use rollers of carpet, velvet back, or high-pile sheep's wool as recommended by the manufacturer for the material and texture required.

1. Do not apply coatings over dirt, rust, scale, grease, moisture, scuffed surfaces, or conditions detrimental to forming a durable coating film.

2. Coating colors, surface treatments, and finishes are indicated in the Schedules.

3. Provide finish coats compatible with the primers used.

4. The number of coats and film thickness required is the same regardless of the application method. Do not apply succeeding coats until the previous coat has cured as recommended by the manufacturer. Where sanding is required, according to the manufacturer's directions, sand between applications to produce a smooth, even surface.

5. When undercoats or other conditions show through the final coat, apply additional coats until the cured film has a uniform coating finish, color, and appearance. Give special attention to edges, corners, crevices, welds, exposed fasteners, and similar surfaces to ensure that they receive a dry film thickness equivalent to that of flat surfaces.

H. Scheduling Coating Application: Apply first coat to surfaces that have been cleaned, pretreated, or otherwise prepared for coating as soon as practicable after preparation and before subsequent surface deterioration.

1. Allow sufficient drying time between successive coats. Do not recoat until the coating has dried so it feels firm and does not deform or feel sticky under moderate thumb pressure and where applying another coat does not cause the undercoat to lift or lose adhesion.

I. Application Procedures: Apply coatings by brush, roller, spray, or other applicators according to the manufacturer's directions.

J. Minimum Coating Thickness: Apply each material no thinner than the manufacturer's recommended spreading rate. Provide total dry film thickness of the entire system as recommended by the manufacturer.

K. Prime Coats: Before applying finish coats, apply a prime coat of material, as recommended by the manufacturer, to the material required to be coated or finished that has not been prime-coated under other Sections.

1. Recoat primed and sealed substrates where there is evidence of suction spots or unsealed areas in the first coat to ensure a finish coat with no burn-through or other defects caused by insufficient sealing.

L. Brush Application: Brush-out and work brush coats into surfaces in an even film. Eliminate cloudiness, spotting, holidays, laps, brush marks, runs, sags, ropiness, or other surface imperfections. Neatly draw color breaks.

1. Apply primers and first coats by brush unless the manufacturer's instructions permit using mechanical applicators.

M. Mechanical Applications: Use mechanical methods to apply coating when permitted by the manufacturer's recommendations and governing regulations.

1. Wherever using spray application, apply each coat to provide the equivalent hiding of brush-applied coats. Do not double-back with spray equipment building-up film thickness of two coats in one pass, unless recommended by the manufacturer.

2. Electrostatic application will be acceptable.

N. Completed Work: Match approved samples for color, texture and coverage. Remove, refinish, or recoat work not complying with specified requirements.

PART 3 - EXECUTION

3.1 FIELD APPLICATION:

A. Conform to requirements for shop finishing, above.

B. Preparation: Remove hardware and hardware accessories, plates, machined surfaces, lighting fixtures, and similar items already in place that are not to be coated, or provide surface-applied protection prior to surface preparation and coating. Remove these items, if necessary, to completely coat the items and adjacent surfaces. Following the coating operations in each space or area, have removed items reinstalled by workers skilled in the trades involved.

C. The term "exposed surfaces" includes areas visible when permanent or built-in fixtures, convector covers, covers for finned tube radiation, grilles, and similar components are in place. Extend coatings in these areas, as required, to maintain the system integrity and provide desired protection.

1. Coat surfaces behind movable equipment and furniture the same as similar exposed surfaces.

2. Coat the back sides of access panels, removable or hinged covers, and similar hinged items to match exposed surfaces.

3. Omit primer on metal surfaces that have been shop-primed and touch-up painted.

3.2 FIELD QUALITY CONTROL:

A. The Owner reserves the right to invoke the following test procedure at any time the Construction Manager deems necessary during coating operations. The Construction Manager can require additional tests, later in the work should the initial test identify products not in complance with the specifications.

B. The Contractor will engage the services of an independent testing agency to sample the coating being used. Samples of material delivered to Project site will be taken, identified, sealed, and certified in the presence of the Contractor and the Construction Manager.

C. The testing agency will perform appropriate tests for the following characteristics as required by the Owner:

1. Quantitative materials analysis.

2. Absorption.

3. Accelerated weathering.

4. Accelerated yellowness.

5. Color retention.

6. Alkali and mildew resistance.

7. Abrasion resistance.

8. Apparent reflectivity.

9. Washability.

10. Dry Opacity.

11. Recoating.

12. Skinning.

D. If results show materials being used do not comply with requirements, the Contractor may be directed to stop work and remove noncomplying materials, pay for additional testing, recoat surfaces coated with rejected materials, or remove rejected materials from previously coated surfaces if, upon recoating with specified materials, the two coatings are not compatible.

3.3 ADJUSTING AND CLEANING:

A. Cleanup: At the end of each work day, remove rubbish, empty cans, rags, and other discarded materials from the site.

B. After completing work, clean glass and spattered surfaces. Remove spattered coatings by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.

3.4 PROTECTION:

A. Protect work of other trades, whether being coated or not, against damage from coating operation. Correct damage by cleaning, repairing, replacing, and recoating, as acceptable to the Owner. Leave in an undamaged condition.

1. At completion of other trades' construction activities, touch up and restore damaged or defaced coated surfaces.

END OF SECTION

AS-BUILT SPEC FOR REFERNCE ONLY

PART 1 - GENERAL

1.1 SUMMARY:

A. Section Includes painting and finishing of exterior and interior exposed items and surfaces, unless otherwise indicated.

1. Prefinished items, such as architectural woodwork, aluminum windows, toilet compartments, acoustic material and the like, are not included.

2. Unless otherwise indicated, painting not required on surfaces of concealed areas, or on walls of the Basement Level.

3. Finished metals such as prefinished aluminum, stainless steel, copper and plated metals will not be painted (but paint door closers to match painted doors, and door coordinators to match frames). .

4. Take special care to keep prefinished work, and natural materials, clean and free of spatter.

B. Related Sections:

1. Shop priming of ferrous metal items and fabricated components are included under their respective trades.

2. Moving parts of operating units, equipment identification, performance ratings, name or nomenclature plates or code-required labels do not require additional finishes.

3. Special Coatings, Section 09810.

1.2 SUBMITTALS:

A. Submit a complete, detailed list of proposed materials with request for color schedule, including anticipated minimum dry film thickness.

B. Submit 200 mm x 250 mm "Drawdowns" for Architect's review of color and texture only. Resubmit samples as requested until required sheen, color and texture is achieved.

C. Samples: Paint materials applied to surfaces at job site as specified in Paragraphs 1.3 C and 2.2 D. Give notice by means of Submittal transmittal.

D. Apply and reduce materials only as specified or recommended by the manufacturer's printed instructions. Where manufacturer has made additional recommendations apparently in conflict with these specifications, allow Architect to review additional recommendations before proceeding.

E. Prepare for Owner duplicate drawdowns of each color and gloss combination used, marked with location for use in maintenance. Deliver to site and obtain receipt.

1.3 QUALITY ASSURANCE:

A. Regulatory Requirements: The Quantity of Volatile Organic Compounds (VOC's) in materials supplied under this Section shall not exceed the limits permitted under Regulation 1113 for architectural coatings (in effect on the date bids are received) of the South Coast Air Quality Management District.

B. Include on label of containers: Manufacturer's name and stock number, type of paint, color, instructions for reducing, where applicable and label analysis.

C. Field control "Samples":

1. Request review of first finished room, space, wall, or item of each color scheme required as a sample of each color, finish, texture and to show workmanship; under illumination equal to that expected at occupancy.

2. For spray or roller application, paint surface of at least 10 sq.m.

3. Consider approved "Samples" as the project standard.

D. The Contractor shall hire an independent testing agency to verify the thickness of the dry paint film at 10%, 30% and 75% intervals of completion of the painting work in five test locations as selected by the Construction Manager. At each test, five readings will be taken to determine the average thickness.

1. An area will be considered deficient where, when compared to the dry film thickness specified by the manufacturer or calculated from the recommended spreading rate, the average of 5 readings is more than 10% low or a single reading is more than 30% low.

2. Paint will be considered testable after twice the manufacturer's recommended time for recoating or 24 hours, whichever is longer.

3. Three additional test locations will be paid for by the Contractor, for each area that fails to comply with the specifications, and the areas determined to be non-compliant will be corrected.

1.4 PRODUCT DELIVERY, STORAGE, AND HANDLING:

A. Deliver materials in original containers, materials specified by name, manufacturer or standard with labels legible and intact.

B. Store in suitable location as directed, in accord with label instructions.

C. Storage of paint-soiled rags, waste, etc., at premises will not be permitted, except where stored in metal containers with tight metal covers.

1.5 PROJECT CONDITIONS:

A. Comply with paint manufacturer's recommendations concerning environmental conditions under which coatings and coating systems may be applied.

1. Apply paint only when surface and air temperatures are above 10 degrees C.

2. Do not apply exterior paint in rainy weather.

3. Do not apply paint in direct sun or when surface is hot or under other conditions which prevent proper application and drying.

B. Do not apply finish in areas where dust is being generated.

C. Protect work of other trades. Correct painting related damage by cleaning, repairing or replacing and refinishing, as directed by Construction Manager.

PART 2 - PRODUCTS

2.1 ACCEPTABLE PRODUCTS:

A. Unless otherwise specified in the Paint Schedule at the end of Part 3, acceptable products include, but are not limited to, the following:

B. Galvanized Metal Primer:

Ameritone Paint Corp.; L 4558 Epoxy Ester Primer
Dunn-Edwards Corp.; Galv-Alum 43-7
Frazee Paint Co.; 661 Metal Prime
Fuller-O'Brien Paints; 621-05 Blox-Rust Latex Metal Primer
Sherwin-Williams Co.; Galvite 610
Sinclair Paint Co.; 14 Corro-Prime
or approved equal.

C. Exterior Ferrous Metal Primer:

Ameritone Paint Corp.; 54 Multi-Pigment Primer
Dunn-Edwards Corp.; Block-Rust Red Oxide Primer 43-4
Frazee Paint Co.; 664 Rust Stop
Fuller-O'Brien Paints; 621-04 Blox-Rust Alkyd Metal Primer
Sherwin-Williams Co.; Kem Kromik Universal Metal Primer B50
Sinclair Paint Co.; 15 Red Oxide Primer

or approved equal.

D. Intermediate Metal Undercoat - Exterior:

Ameritone Paint Corp.; 7013 Universal Primer
Dunn-Edwards Corp.; Loc-Kote Synthetic Undercoat 42-44
Frazee Paint Co.; 381 Superbond Synthetic Undercoat II
Fuller-O'Brien Paints;
Sherwin-Williams Co.; Kem Kromic Universal Metal Primer B50
Sinclair Paint Co.; 14 Corro Prime
or approved equal.

E. Alkyd Enamel Undercoat - Interior:

Ameritone Paint Corp.; 85 Super Enamel Undercoat
Dunn-Edwards Corp.; Super U365 E22-1
Frazee Paint Co.; 367 Fraflo II
Fuller-O'Brien Paints; 220-07 Enamel Undercoat
Sherwin-Williams Co.; Wall and Wood Primer B49WZ2
Sinclair Paint Co.; 975 Sinco Prime
or approved equal.

F. Acrylic Enamel Undercoat - Interior:

Ameritone Paint Corp.; W2168 Latex Enamel Underbody
Dunn-Edwards Corp.; Unikote W707
Frazee Paint Co.; 065 AcryPrime
Fuller-O'Brien Paints; 220-20 Pro-Tech Wall Primer
Sherwin-Williams Co.; ProMar 200 Latex Primer B28 W200
Sinclair Paint Co.; 1790 Aqua Coater
or approved equal.

G. Vinyl Acrylic Sealer:

Ameritone Paint Corp.; W100 Interior Pigmented Sealer
Dunn-Edwards Corp.; Vinylastic W-101
Frazee Paint Co.; 061 Aqua Seal
Fuller-O'Brien Paints; 220-20 Pro-Tech Wall Primer
Sherwin-Williams Co.; ProMar 400 Latex Primer B28W400
Sinclair Paint Co.; 1770 Pigmented PVA Sealer
or approved equal.

H. Enamelized House Paint - Gloss:

Ameritone Paint Corp.; 6500 Interior/Exterior Gloss Quick Dry Enamel
Dunn-Edwards Corp.; QD60 Rancho House & Trim
Frazee Paint Co.; 352 Classic House & Trim II
Fuller-O'Brien Paints; 298-10 House and Trim Paint
Sherwin-Williams Co.; Industrial Enamel B54 Series
Sinclair Paint Co.; GE2 Sash & Trim Enamel
or approved equal.

I. Acrylic Emulsion Finish Coat - Exterior:

Ameritone Paint Corp.; Y500 Acrylic Flat Enamel
Dunn-Edwards Corp.; Evershield W-701
Frazee Paint Co.; 202 Duratec
Fuller-O'Brien Paints; 668-XX Weather King II Latex House Paint
Sherwin-Williams Co.; A-100 House & Trim Flat A6 Series
Sinclair Paint Co.; 1300 Stuc-O-Life
or approved equal.

J. Acrylic Latex - Flat - Interior:

Ameritone Paint Corp.; Y400 Wonder Tones
Dunn-Edwards Corp.; Decevel Velvet W-401 Series
Frazee Paint Co.; 011 Velvin
Fuller-O'Brien Paints; 202-XX Latex Wall Finish
Sherwin-Williams Co.; ProMar 200 Latex Flat B30 Series
Sinclair Paint Co.; 1700 Sinwall Vinyl Latex
or approved equal.

K. Latex Enamel - Eggshell - Interior:

Ameritone Paint Corp.; W9200 Acrylic Enamel
Dunn-Edwards Corp.; Suprema W-411
Frazee Paint Co.; 022 Lo-Glo Acrylic Enamel
Fuller-O'Brien Paints; 218-XX Uniko Eggshell Enamel
Sherwin-Williams Co.; ProMar 200 Latex Eg-Shel Enamel B20 Series
Sinclair Paint Co.; 3000 Aqua Swede
or approved equal.

L. Latex Enamel - Semi-Gloss - Interior:

Ameritone Paint Corp.; W1800 Latex Enamel
Dunn-Edwards Corp.; Decoglo W-450
Frazee Paint Co.; 021 Satin Glide Enamel
Fuller-O'Brien Paints;
Sherwin-Williams Co.; ProMar 200 Latex Semi-Gloss Enamel B31 Series
Sinclair Paint Co.; 4000 Aqua Satin
or approved equal.

M. Alkyd Enamel - Semi-Gloss - Interior:

Ameritone Paint Corp.; DC 500 Semi-Gloss Interior Enamel
Dunn-Edwards Corp.; California Satin Sheen-E5 Series
Frazee Paint Co.; 328 Velglo II
Fuller-O'Brien Paints; 297-10 Interior Alkyd Semi-Gloss Enamel
Sherwin-Williams Co.; ProMar Salon Alkyd Semi-Gloss Enamel B34WZ2000
Sinclair Paint Co.; SG25 Sinco Satin
or approved equal.

N. Alkyd Enamel - Gloss - Interior:

Ameritone Paint Corp.; 6500 Interior/Exterior Gloss Quick Dry Enamel
Dunn-Edwards Corp.; Quick Dry Aristolite QD2 Series
Frazee Paint Co.; 347 Gloss Enamel
Sherwin-Williams Co.; Industrial Enamel B54 Series
Sinclair Paint Co.; GE8 Sinco Gloss

or approved equal.

O. Primer for Epoxy Finishes - Interior:

Dunn-Edwards Corp.; 1P-714 Epoxy Primer
Frazee Paint Co.; 562 Aro-Gard Primer
Sinclair Paint Co.; PA-72 Epoxy Primer
or approved equal.

P. Epoxy Finish - Gloss - Interior:

Dunn-Edwards Corp.; 1P-755 Cereglaze Gloss
Frazee Paint Co.; 542 Aro-Gard Gloss
Sinclair Paint Co.; AF15 Epogloss
or approved equal.

2.2 MATERIALS:

A. See Painting Schedule at end of Part 3.

B. Provide products of a single manufacturer for coating systems applied to each type of surface.

C. Coordination: Provide finish coats which are compatible with prime paints used. Provide barrier coats over incompatible primers where required. Notify the Architect in writing of anticipated problems using specified coatings with substrates primed by under other sections.

D. Paint Colors: See Color Schedule at the end of this Section.

1. Additional colors will be furnished by the Architect, selected from ranges of several paint manufacturers or other sources.

2. Paint area of each color for observation, review and revisions before batch mixing of colors, or shipping large quantities of that color to job. Allow revisions to "Approved" colors and textures after review of initial area of each color.

3. Vary top coats in shade from preceding coat without affecting finish color.

E. Mixing and Tinting:

1. Job mix or job tint only when acceptable to Construction Manager. Mix only in pails in suitably sized non-ferrous or oxide-resistant metal pans.

2. Strain to remove lumps and specks.

3. Use tinting colors recommended by manufacturer for the specific type of finish.

4. Add non-mercuric fungicidal agent, by manufacturer, to exterior finishes.

PART 3 - EXECUTION

3.1 EXAMINATION:

A. Verify that spaces are broom clean, with surfaces free of foreign matter.

B. Moisture Content:

1. Surfaces: Suitably dry and adequately protected from dampness.

2. Follow recommendations of paint manufacturer for allowable moisture for specific type surfaces.

C. Examine surfaces scheduled to receive paint and finishes for conditions that will adversely affect execution, permanence or quality of work and which cannot be put into an acceptable condition through preparatory work as specified. Allow correction of conditions which are detrimental to the proper and timely completion of the work. Proceed with the Work only after unsatisfactory conditions have been corrected.

D. Proceed with surface preparation and coating application only after conditions are suitable.

3.2 SURFACE PREPARATION:

A. Do not apply finishes until surfaces are dry and clean and in proper condition to receive finish.

B. In addition to painting specified, sand and patch prime coats specified under other Sections.

C. Perform preparation and cleaning procedures in accordance with coating manufacturer's instructions for each substrate condition.

D. Remove hardware and accessories, machined surfaces, plates, lighting fixtures and similar items in place and not to be finish-painted, or provide surface-applied protection. Reinstall removed items.

E. Seal wood required to be job finished. Prime edges, ends, face, undersides and backsides of counters, cases, cabinets, etc. Use spar varnish for backpriming where transparent finish is required.

1. Backprime interior paneling only where masonry, or other wet wall construction occurs on backside.

2. Seal tops, bottoms of wood doors with heavy coat of varnish type finish compatible with final finish immediately upon delivery to job.

3. Sand to smooth and even surface, then remove dust residue. Clean soiled surfaces, using alcohol wash where required.

4. Putty: Fill nail holes, cracks, open joints and other blemishes with putty compatible with finish system after priming coat has dried. Color putty to match finish.

F. Plaster and Wallboard Materials:

1. Test plaster with one percent solution of phenolphthalein in alcohol for dryness and excess acid. Treat excess lime with zinc sulfate solution after observation.

2. Rake cracks, scratches and abrasions. Fill with thin layers of patching plaster or joint cement as appropriate.

3. Sand smooth; do not raise "nap" of paper on wallboard.

G. Concrete: Fill minor holes to provide uniform texture over surface as approved. Acid etch concrete surfaces receiving oil-based paints, rinse thoroughly and neutralize with ammonia. Allow to dry thoroughly.

H. Ferrous Metal Surfaces:

1. Remove dirt and grease with mineral spirits.

2. Remove dust, mill scale, and defective paint down to sound surface using scraper, sandpaper or wire brush as necessary. Clean rusted surfaces down to bare metal.

3. Feather edges of sound paint by grinding.

4. Where large areas of bare metal are exposed prime with primer recommended for this exposure.

I. Galvanized Steel and Aluminum Surfaces:

1. Clean surface with solvent to remove oily residue. Dry with clean cloth.

2. Prime with 2-coat primer system recommended for this exposure.

J. For surface preparation of other materials not specifically noted, provide appropriate primers and cleaning agents recommended by paint manufacturer.

3.3 APPLICATION:

A. Paint materials may be applied to fields of walls, ceilings and painted doors with rollers or airless spray equipment. Brush-paint other work except as specifically indicated. Lay off painted doors with roller of acceptable texture after application of paint.

1. Apply each coat evenly, without brush marks, skipped or missed areas; and without sags, runs or other blemish.

2. Where spray application is permitted, spray each coat without streaking, lapping or pile up of paint, and lay off with roller for light stippled surface.

B. Omit first coat (primer) on metal surfaces which have been shop-primed and touch-up painted. Apply prime coat to material which is required to be painted or finished, and which has not been prime coated by others.

C. Apply each material at not less than the manufacturer's recommended spreading rate, to provide a total dry film thickness of not less than 0.07 mm thick for the coating systems applied under this section.

D. Completed Work: Match approved samples for color, texture and coverage. Remove, refinish or repaint work not in compliance with specified requirements.

E. Observation of Surfaces:

1. Do not apply additional coats until completed coat has been reviewed by Architect.

2. Only observed coats of paint will be considered in determining number of coats applied.

F. Paint surfaces behind furniture same as similar exposed surfaces. Paint surfaces behind permanently fixed equipment or furniture with prime coat only, wherever possible.

1. Paint interior surfaces, where visible through registers or grilles, flat, non-specular black.

2. Paint back sides of access panels, and removable or hinged covers to match exposed surfaces.

G. Sand lightly between succeeding coats.

H. Finish door edges, tops and bottoms to match faces.

I. Refinish whole wall where portion of finish has been damaged or is not acceptable.

J. Make edges of paint adjoining other materials or colors clean and sharp without overlapping. Exercise care that paint does not lap or splatter onto surfaces scheduled to receive other finishes or which are not to be painted.

3.4 CLEANING:

A. Remove spilled, splashed or spattered paint.

B. Do not mar surface finish of item being cleaned.

C. Leave storage space clean and in condition required for equivalent spaces in project.

D. Produce a satisfactory finish by painting or repainting as directed, surfaces from which paint spatters cannot satisfactorily be removed.

3.5 PAINTING SCHEDULE:

A. Exterior Surfaces:

1. Galvanized Metals - Gloss: (Galvanized surfaces exposed to sight and/or weather).

   1 coat Galvanized Metal Primer
   2 coats Enamelized House Paint - Gloss

2. Iron and Steel - Gloss: (Other iron and steel surfaces exposed to sight and/or weather).

   2 coats Ferrous Metal Primer*
   1 coat Intermediate Metal Undercoat - Exterior
   1 coat Enamelized House Paint - Gloss
   *Omit first coat on shop primed surfaces.

B. Interior Surfaces:

1. Metals - Semi-Gloss: (Including metal doors and frames (flush, coiling, elevator), exposed piping, conduit, electrical panels, miscellaneous brackets, bolts, fasteners, supports, prime coated hardware, casing beads, metal grilles and exposed ducts etc., other than plated or factory finished items where custom color is specified).

   1 coat Ferrous Metal Primer *
   1 coat Undercoat - Interior
   1 coat Alkyd Enamel - Semi-Gloss - Interior
   *Omit first coat on shop primed surfaces where primer is in good condition.

2. Metals - Gloss: (Including metal doors and frames (flush, coiling, elevator), exposed piping, conduit, electrical panels, miscellaneous brackets, bolts, fasteners, supports, prime coated hardware, casing beads, metal grilles and exposed ducts etc., other than plated or factory finished items where custom color is specified).

   1 coat Ferrous Metal Primer*
   1 coat Undercoat - Interior
   1 coat Alkyd Enamel - Gloss - Interior
   *Omit first coat on shop primed surfaces where primer is in good condition.

3. Gypsum Board

   a. Flat: 1 coat Vinyl Acrylic Sealer
      2 coats Acrylic Latex - Flat - Interior

   b. Eggshell: 1 coat Vinyl Acrylic Sealer

1 coat Undercoat - Interior
1 coat Latex Enamel - Eggshell - Interior

c. Semi-Gloss: 1 coat Vinyl Acrylic Sealer
1 coat Undercoat - Interior
1 coat Latex Enamel - Semi-Gloss - Interior

d. Gloss: 1 coat Vinyl Acrylic Sealer
1 coat Undercoat - Interior
1 coat Alkyd Enamel - Gloss - Interior

4. Gypsum Board - Epoxy Finish:

1 coat Epoxy Primer
2 coats Epoxy Finish (verify Gloss with Architect)

6. Concrete Masonry - Painted - Flat:

1 coat Masonry Block Filler
2 coats Acrylic Latex - Flat - Interior

7. Concrete - Painted - Flat:

1 coat Plaster Primer/Sealer
2 coats Acrylic Latex - Flat - Interior

8. Wood Trim, Handrails:

1 coat Wood Stain - Interior
1 coat Sanding Sealer - Interior
2 coats Semi-Gloss Lacquer - Interior

3.6 PAINT COLORS:

A. Provide colors as indicated below:

1. Apply P-1 to painted walls and exposed structure of rooms scheduled for paint, unless another color is indicated: An 'Off White' color selected from manufacturer's standard colors.

2. P-2 (accent): Miller Paint Company: 8446N "Purple Fable".

3. P-3 (accent): Miller Paint Company: 7744M "September Leaf".

4. P-4 (accent): Miller Paint Company: 7815A "Paprika".

5. P-5 (accent): Miller Paint Company: 8406N "Red Jarrah".

END OF SECTION