THE
UNIVERSITY
OF RHODE ISLAND
DIVISION OF
ADMINISTRATION
AND FINANCE

THINK BIG WE DO℠

PURCHASING DEPARTMENT
10 Tootell Road, Suite 3, Kingston, RI 02881 USA p: 401.874.2171 f: 401.874.2306 uri.edu/purchasing

DATE: December 15th, 2023

Addendum# 1

BID NO.: 101324
OPENING: 1/11/24 at 1:00 PM
COMMODITY: FIRE ESCAPE IMPROVEMENTS

Due to the holiday, this bid opening is being rescheduled from 12/29/23 at 1:00 PM to 1/11/24 at1:00 PM.

Attached is the following additional information:

- Non-Mandatory Pre-Bid Sign-In Sheet
- Answers to the questions received by the deadline

Andrea Boucher Digitally signed by Andrea Boucher
Date: 2023.12.15 09:12:38 -05'00'

Purchasing Department
The University of Rhode Island

Rev. 9-1-15

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NON - MANDATORY PRE-BID CONFERENCE SIGN-IN SHEET

BID NUMBER:	101324	PURCHASING REPRESENTATIVE:	Andrea Boucher
BID TITLE:	Fire Escape Improvements		
LOCATION:	International House, 37 Lower College Road, Kingston, RI 02881		
PRE BID DATE AND TIME:	12/8/2023 at 9:00 AM		

Company Name:	Representative:	Email Address:	Phone Number
Purchasing - URI	Andrea Boucher	andrea.boucher@uri.edu	401-874-9133
OCP - URI ✓	Dennis Blanchette	dennis.blanchette@uri.edu	401-641-5478
Tecton Architects ✓	Paul Bacchiocchi	paulb@tectonpc.com	860-830-9960
E. W. Burman	Amy Burman	estimating@ewburman.com	401 723 5400
Stillwater Construction	Dan Kenney	dkenney@stillwaterconst.com	401-227-9032
			Closed 9:18

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BID101324 – FIRE ESCAPE IMPROVEMENTS – QUESTIONS AND ANSWERS

Q1. Are shop drawings with P.E seal required?

Answer: P.E. Seal Not required

Q2. How many coats of finished paint for each fire escape?

Answer: Provide 1 coat of SW Macropoxy 646 epoxy mastic primer (5-10 dry mils minimum) and 2 coats SW Hi-solids Polyurethane 250 aliphatic polyurethane (semi-gloss) 3-5 dry mils per coat. (see also attached product literature)

Q3. Are there any restrictions as to time of work or noise?

Answer: No Restrictions - 7am to 3:30 pm

Q4. Will employees be allowed to work weekends? If so, are there any restrictions?

Answer: Weekend work allowed, need to notify URI Project Manager prior to any weekend work.

Q5. Can the plans be reissued and formatted to the correct paper size? The plans uploaded to the State web-site are formatted to 8 ½" x 11" paper size and as such are out of scale.

Answer: Yes, the correctly formatted drawings are attached to this amendment.

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Protective & Marine Coatings

HI-SOLIDS POLYURETHANE 250
ALIPHATIC POLYURETHANE

PART S	B65J-300 SERIES	GLOSS
PART S	B65J-350 SERIES	SEMI-GLOSS
PART T	B60V30	HARDENER

Revised: November 3, 2022

PRODUCT INFORMATION

5.30

PRODUCT DESCRIPTION

HI-SOLIDS POLYURETHANE 250 is a two-component, aliphatic, acrylic polyurethane resin coating. It is designed for high performance protection with outstanding exterior gloss and color retention.

- Good/excellent resistance to corrosion and weathering
- Outstanding color and gloss retention
- Chemical resistant
- Suitable for use in USDA inspected facilities
- Formerly named Hi-Solids Polyurethane CA
- Resists film attack by mildew (MR White Tint Base only, B65WWJ305)
- Applications down to 20°F (-7°C)

PRODUCT CHARACTERISTICS

Finish: Gloss and Semi-Gloss

Color: Wide range of colors possible

Volume Solids: 63% ± 4%, may vary by color or sheen
Ultra White

Weight Solids: 74% ± 2%, may vary by color or sheen
Ultra White

VOC (EPA Method 24): <250 g/L; 2.08 lb/gal Mixed

Mix Ratio: 4:1 by volume

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	**4.5** (112.5)	**8.0** (200)
Dry mils (microns)	**3.0** (75)	**5.0** (125)
~Coverage sq ft/gal (m^2/L)	**208** (5.2)	**347** (8.5)

NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

Drying Schedule @ 4.5 mils (112.5 microns) wet:

	@ 20°F/-7°C	@ 40°F/4.5°C	@ 77°F/25°C *50% RH*	@ 120°F/49°C
To touch:	16 hours	4 hours	2 hours	1 hour
To handle:	14 days	16 hours	8 hours	5 hours
To recoat:				
minimum:	32 hours	24 hours	18 hours	10 hours
maximum:	unlimited	30 days	30 days	30 days
To cure:	40 days	14 days	10 days	7 days

If maximum recoat time is exceeded, abrade surface before recoating.

Drying time is temperature, humidity, and film thickness dependent.

Pot Life:	3 days	8 hours	4 hours	2 hours
Sweat-in-Time:	None required			

PRODUCT CHARACTERISTICS (CONT'D)

Shelf Life:	Part S: 36 months, unopened Part T: 24 months, unopened Store indoors at 40°F (4.5°C) to 100°F (38°C).
Flash Point:	65°F (18°C), mixed
Reducer/Clean Up*:	VOC Restricted Areas (≤250 g/L): use Oxsol 100 or R7K111

*Other areas (>250 g/L): use Oxsol 100, R7K111, or Reducer #58. Choose a reducer that is compliant in your area. Confirm compliance with state and local air quality rules before use.

RECOMMENDED USES

For use over prepared substrates in industrial environments

- Heavy duty interior and exterior structural coating
- A chemical and abrasion resistant equipment and machinery finish
- A gloss and color retentive heavy duty maintenance coating for use in "high visibility" areas
- Exterior surfaces of steel tanks
- Chemical processing equipment
- Exterior metal siding and trim
- Precipitator surfaces
- Oil Field Machinery
- Marine Applications
- Refineries
- Conveyors
- Rolling stock
- Power plants
- Offshore structures
- Clean rooms
- Handrails
- Paper mills
- Conforms to AWWA D102 Outside Coating Systems #5 & #6 (Gloss only)
- Approved finish coat for FIRETEX M90 and M93 series systems (Gloss only)
- Approved topcoat for NEPCOAT System B

PERFORMANCE CHARACTERISTICS

Substrate*: Steel
Surface Preparation*: SSPC-SP6
System Tested*:
1 ct. Zinc CLad 4100 @ 4.0 mils (100 microns) dft
1 ct. Macropoxy 646 @ 7.5 mils (188 microns) dft
1 ct. Hi-Solids polyurethane 250 @ 4.0 mils (100 microns) dft
*unless otherwise noted below

Test Name	Test Method	Results
Abrasion Resistance	ASTM D4060, CS17 wheel, 1000 cycles, 1 kg load	119 mg loss
Adhesion	ASTM D4541	2253 psi
Corrosion Weathering	ASTM D5894, 15 cycles	Rating 10 per ASTM D714 for blistering; Rating 10 per ASTM D610 for rusting
Direct Impact Resistance	ASTM D2794	40 in. lbs.
Dry Heat Resistance	ASTM D2485	200°F (93°C)
Flexibility	ASTM D522, 180° bend, 1/8" mandrel	Passes
Moisture Condensation Resistance	ASTM D4585, 100°F (38°C), 1000 hours	No rusting, blistering, or delamination
Pencil Hardness	ASTM D3363**	F
Salt Fog Resistance	ASTM B117, 5,000 hours	Rating 10 per ASTM D714 for blistering; Rating 9 per ASTM D610 for rusting

Meets the requirements of SSPC Paint No. 36, Level 3 for white and light colors.

** Ultradeep bases will result in slightly softer film due to increased tint loading

continued on back

Protective & Marine Coatings

HI-SOLIDS POLYURETHANE 250
ALIPHATIC POLYURETHANE

PART S	B65J-300 SERIES	GLOSS
PART S	B65J-350 SERIES	SEMI-GLOSS
PART T	B60V30	HARDENER

Revised: November 3, 2022

PRODUCT INFORMATION

5.30

RECOMMENDED SYSTEMS

		Dry Film Thickness / ct. Mils	Microns
Steel: Epoxy Primer			
1 ct.	Macropoxy 240	3.0-5.0	(75-125)
1-2 cts.	Hi-Solids Polyurethane 250	3.0-5.0	(75-125)
Steel: Epoxy Primer			
1 ct.	Macropoxy 646	4.0-6.0	(100-150)
1-2 cts.	Hi-Solids Polyurethane 250	3.0-5.0	(75-125)
Steel: Zinc Rich Primer			
1 ct.	Zinc Clad 4100	3.0-5.0	(75-125)
1 ct.	Macropoxy 646	3.0-10.0	(75-250)
1-2 cts.	Hi-Solids Polyurethane 250	3.0-5.0	(75-125)
Steel: Epoxy Mastic Primer			
1 ct.	Macropoxy 646	5.0-10.0	(125-250)
1-2 cts.	Hi-Solids Polyurethane 250	3.0-5.0	(75-125)
Aluminum:			
1 ct.	DTM Wash Primer	0.7-1.3	(17.5-32.5)
1-2 cts.	Hi-Solids Polyurethane 250	3.0-5.0	(75-125)
Concrete:			
1 ct.	Kem Cati-Coat Epoxy HS Filler/Sealer	10.0-15.0	(250-375)
1-2 cts.	Hi-Solids Polyurethane 250	3.0-5.0	(75-125)
Galvanized Metal:			
1 ct.	Epoxy Mastic Aluminum II	4.0-6.0	(100-150)
1-2 cts.	Hi-Solids Polyurethane 250	3.0-5.0	(75-125)
Galvanized Metal:			
1 ct.	ProCryl Universal Primer	2.0-4.0	(50-100)
1-2 cts.	Hi-Solids Polyurethane 250	3.0-5.0	(75-125)
Galvanized Metal:			
1 ct.	Macropoxy 646	4.0-6.0	(100-150)
1-2 cts.	Hi-Solids Polyurethane 250	3.0-5.0	(75-125)
NTPEP System			
1 ct.	Zinc Clad 4100	3.0-5.0	(75-125)
1 ct.	Macropoxy 646	3.0-5.0	(75-125)
1-2 cts.	Hi-Solids Polyurethane 250 SG	3.0-5.0	(75-125)

The systems listed above are representative of the product's use, other systems may be appropriate.

DISCLAIMER

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Information and Application Bulletin.

SURFACE PREPARATION

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

Refer to product Application Bulletin for detailed surface preparation information.

Minimum recommended surface preparation:

* Iron & Steel: SSPC-SP6/NACE 3, 2 mil (50 micron) profile
* Aluminum: SSPC-SP1
* Galvanizing: SSPC-SP1
* Concrete & Masonry: SSPC-SP13/NACE 6

* Primer Required

Surface Preparation Standards

Condition of Surface		ISO 8501-1 BS7079:A1	SSPC	NACE
White Metal		Sa 3	SP 5	1
Near White Metal		Sa 2.5	SP 10	2
Commercial Blast		Sa 2	SP 6	3
Brush-Off Blast		Sa 1	SP 7	4
Hand Tool Cleaning	Rusted	C St 2	SP 2	-
	Pitted & Rusted	D St 2	SP 2	-
Power Tool Cleaning	Rusted	C St 3	SP 3	-
	Pitted & Rusted	D St 3	SP 3	-

TINTING

Tint with GIS colorants into part S only. *Maximum amount of tint is 8 fl oz for the EW & 18 fl oz for the UD. Most colors typically utilize about 3-5 ounces with EW bases and 6-12 ounces with UD bases.*

APPLICATION CONDITIONS

Temperature:	20°F (-7°C) minimum, 120°F (49°C) maximum (air, surface, and material) Do not apply over surface ice At least 5°F (2.8°C) above dew point
Relative humidity:	85% maximum

Refer to product Application Bulletin for detailed application information.

ORDERING INFORMATION

Packaging:	
Part S:	1 gallon (3.78L) and 4 gallon (15.12L) kits
Part T:	quarts and gallons
Weight:	10.7 ± 0.2 lb/gal ; 1.3 Kg/L mixed, may vary with color

SAFETY PRECAUTIONS

Refer to the SDS sheet before use.
Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

WARRANTY

The Sherwin-Williams Company warrants our products to be free of manufacturing defects in accord with applicable Sherwin-Williams quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by Sherwin-Williams. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Protective & Marine Coatings

HI-SOLIDS POLYURETHANE 250
ALIPHATIC POLYURETHANE

PART S	B65J-300 SERIES	GLOSS
PART S	B65J-350 SERIES	SEMI-GLOSS
PART T	B60V30	HARDENER

Revised: November 3, 2022

APPLICATION BULLETIN

5.30

SURFACE PREPARATIONS

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

Iron & Steel
Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1. Minimum surface preparation is Commercial Blast Cleaning per SSPC-SP6/NACE 3. For better performance, use Near White Metal Blast Cleaning per SSPC-SP10/NACE 2. Blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (2-3 mils / 50-75 microns). Prime any bare steel the same day as it is cleaned or before flash rusting occurs.

Aluminum
Remove all oil, grease, dirt, oxide and other foreign material by Solvent Cleaning per SSPC-SP1. Primer required.

Galvanized Steel
Allow to weather a minimum of six months prior to coating. Remove all oil, grease, dirt, oxide and other foreign material by Solvent Cleaning per SSPC-SP1. When weathering is not possible, or the surface has been treated with chromates or silicates, first Solvent Clean per SSPC-SP1 and apply a test patch. Allow paint to dry at least one week before testing adhesion. If adhesion is poor, brush blasting per SSPC-SP7 is necessary to remove these treatments. Rusty galvanizing requires a minimum of Hand Tool Cleaning per SSPC-SP2, prime the area the same day as cleaned.

Concrete and Masonry
For surface preparation, refer to SSPC-SP13/NACE 6. Surfaces should be thoroughly clean and dry. Concrete and mortar must be cured at least 28 days @ 75°F (24°C). Remove all loose mortar and foreign material. Surface must be free of laitance, concrete dust, dirt, form release agents, moisture curing membranes, loose cement and hardeners. Fill bug holes, air pockets and other voids with ArmorSeal Crack Filler. Weathered masonry and soft or porous cement board must be brush blasted or power tool cleaned to remove loosely adhering contamination and to get to a hard, firm surface. Laitance must be removed by etching with a 10% muriatic acid solution and thoroughly neutralized with water. Primer required. Brick must be allowed to weather for one year prior to surface preparation and painting.

Surface Preparation Standards

	Condition of Surface	ISO 8501-1 BS7079:A1	SSPC	NACE
White Metal		Sa 3	SP 5	1
Near White Metal		Sa 2.5	SP 10	2
Commercial Blast		Sa 2	SP 6	3
Brush-Off Blast		Sa 1	SP 7	4
Hand Tool Cleaning	Rusted	C St 2	SP 2	-
	Pitted & Rusted	D St 2	SP 2	-
Power Tool Cleaning	Rusted	C St 3	SP 3	-
	Pitted & Rusted	D St 3	SP 3	-

APPLICATION CONDITIONS

Temperature:	20°F (-7°C) minimum, 120°F (49°C) maximum (air, surface, and material) Do not apply over surface ice At least 5°F (2.8°C) above dew point
Relative humidity:	85% maximum

APPLICATION EQUIPMENT

The following is a guide. Changes in pressures and tip sizes may be needed for proper spray characteristics. Always purge spray equipment before use with listed reducer. Any reduction must be compliant with existing VOC regulations and compatible with the existing environmental and application conditions.

Reducer/Clean Up* .....VOC Restricted Areas (≤250 g/L): use Oxsol 100 or R7K111

*Other areas (>250 g/L): use Oxsol 100, R7K111, or Reducer #58. Choose a reducer that is compliant in your area. Confirm compliance with state and local air quality rules before use.

Airless Spray
Pressure.....2500 - 2800 psi
Hose.....3/8" ID
Tip .....013" - .017"
Filter .....none
Reduction.....As needed up to 10% by volume

Conventional Spray
Gun .....Binks 95
Fluid Nozzle .....63 B
Air Nozzle.....69 PB
Atomization Pressure ....50 - 70 psi
Fluid Pressure.....20 - 25 psi
Reduction.....As needed up to 15% by volume

Brush
Brush.....Natural bristle
Reduction.....As needed up to 15% by volume

Roller
Cover .....3/8" woven with phenolic core
Reduction.....As needed up to 15% by volume

If specific application equipment is not listed above, equivalent equipment may be substituted.

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Protective & Marine Coatings

HI-SOLIDS POLYURETHANE 250
ALIPHATIC POLYURETHANE

PART S	B65J-300 SERIES	GLOSS
PART S	B65J-350 SERIES	SEMI-GLOSS
PART T	B60V30	HARDENER

Revised: November 3, 2022

APPLICATION BULLETIN

5.30

APPLICATION PROCEDURES

Surface preparation must be completed as indicated.

Mixing Instructions: Mix contents of each component thoroughly with power agitation. Make certain no pigment remains on the bottom of the can. Then combine 4 parts by volume of Part S with 1 part by volume of Part T. Thoroughly agitate the mixture with power agitation.

If reducer solvent is used, add only after both components have been thoroughly mixed.

Apply paint at the recommended film thickness and spreading rate as indicated below:

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	**4.5** (112.5)	**8.0** (200)
Dry mils (microns)	**3.0** (75)	**5.0** (125)
~Coverage sq ft/gal (m^2/L)	**208** (5.2)	**347** (8.5)

NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

Drying Schedule @ 4.5 mils (112.5 microns) wet:

	@ 20°F/-7°C	@ 40°F/4.5°C	@ 77°F/25°C *50% RH*	@ 120°F/49°C
To touch:	16 hours	4 hours	2 hours	1 hour
To handle:	14 days	16 hours	8 hours	5 hours
To recoat:				
minimum:	32 hours	24 hours	18 hours	10 hours
maximum:	unlimited	30 days	30 days	30 days
To cure:	40 days	14 days	10 days	7 days
Pot Life:	3 days	8 hours	4 hours	2 hours
Sweat-in-Time:	None required			

If maximum recoat time is exceeded, abrade surface before recoating.

Drying time is temperature, humidity, and film thickness dependent.

Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating performance.

CLEAN UP INSTRUCTIONS

In VOC restricted areas (≤250 g/L): clean spills and spatters immediately with Oxsol 100 or R7K111. Clean tools immediately after use with Oxsol 100 or R7K111. Other areas (>250 g/L): use Oxsol 100, R7K111, or Reducer #58. Follow manufacturer's safety recommendations when using any solvent.

DISCLAIMER

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PERFORMANCE TIPS

Stripe coat all crevices, welds, and sharp angles to prevent early failure in these areas.

When using spray application, use a 50% overlap with each pass of the gun to avoid holidays, bare areas, and pinholes. If necessary, cross spray at a right angle.

Spreading rates are calculated on volume solids and do not include an application loss factor due to surface profile, roughness or porosity of the surface, skill and technique of the applicator, method of application, various surface irregularities, material lost during mixing, spillage, overthinning, climatic conditions, and excessive film build.

Excessive reduction of material can affect film build, appearance, and adhesion.

Do not apply the material beyond recommended pot life.

Do not mix previously catalyzed material with new.

In order to avoid blockage of spray equipment, clean equipment before use or before periods of extended downtime with Oxsol 100 or R7K111 in VOC restricted areas (≤250 g/L). Other areas (>250 g/L): use Oxsol 100, R7K111, or Reducer #58. Choose a reducer that is compliant in your area. Confirm compliance with state and local air quality rules before use.

Mixed coating is sensitive to water. Use water traps in all air lines. Moisture contact can reduce pot life and affect gloss and color.

Quik-Thane Urethane Accelerator is acceptable for use. See Quik-Thane Urethane Accelerator product data sheet for details.

E-Z Roll Urethane Defoamer is acceptable for use. See E-Z Roll Urethane Defoamer product data sheet for details.

Refer to Product Information sheet for additional performance characteristics and properties.

SAFETY PRECAUTIONS

Refer to the SDS sheet before use.

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WARRANTY

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Protective & Marine Coatings
PRODUCT DATA SHEET

MACROPOXY® 646
FAST CURE EPOXY MASTIC

Revised: July 24, 2023

PRODUCT DESCRIPTION

MACROPOXY 646 Fast Cure Epoxy Mastic is a high solids, high build, fast drying, polyamide epoxy designed to protect steel and concrete in industrial exposures. Ideal for maintenance painting and fabrication shop applications. The high solids content ensures adequate protection of sharp edges, corners, and welds. This product can be applied directly to marginally prepared steel surfaces.

INTENDED USES

- Recommended for marine applications, refineries, offshore platforms, fabrication shops, chemical plants, tank exteriors, power plants, water treatment plants, and mining and minerals industry
- Factory ground formulas are available for subsea/immersion service. For a full list of shades please consult Sherwin-Williams

PRODUCT DATA

Finish: Semi-Gloss

Colors: Mill White, Black and a wide range of colors available through tinting

Volume Solids: 72% ± 2%, mixed, Mill White

VOC (mixed): <250 g/L; 2.08 lb/gal

Mix Ratio: 1:1 by volume

Typical Thickness:

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	**7.0** (175)	**13.5** (338)
Dry mils (microns)	**5.0*** (125)	**10.0** (250)
~Coverage sq ft/gal (m^2/L)	**115** (2.9)	**230** (5.8)
Theoretical coverage **sq ft/gal** (m^2/L) @ 1 mil / 25 microns dft	**1152** (28.2)	

*May be applied at 3.0-10.0 mils (75-250 microns) dft as an intermediate in a multicoat system.

NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

Shelf Life: 36 months, unopened
Store indoors at 40°F (4.5°C) to 110°F (43°C).

Flash Point: 91°F (33°C), TCC, mixed

Reducer/Clean Up[1]: VOC Restricted Areas (<250 g/L): use Reducer #111 or Oxsol 100

Weight: 12.9 ± 0.2 lb/gal ; 1.55 Kg/L, mixed, may vary by color

[1]Other areas (<340 g/L): use Reducer #111, Oxsol 100, Reducer #15, Reducer #58, or MEK up to 10%. Choose a reducer that is compliant in your area. Confirm compliance with state and local air quality rules before use.

Average Drying Times @ 7.0 mils (175 microns) wet:

	35°F (1.7°C) *50% RH*	77°F (25°C) *50% RH*	100°F (38°C) *50% RH*
Touch:	4-5 hours	2 hours	1.5 hours
Handle:	48 hours	8 hours	4.5 hours
Recoat:			
minimum:	48 hours	8 hours	4.5 hours
maximum:	1 year	1 year	1 year
Cure to service:			
atmospheric:	10 days	7 days	4 days
immersion:	14 days	7 days	4 days

Average Drying Times as intermediate @ 5.0 mils (125 microns) wet:

Touch:	3 hours	1 hour	1 hour
Handle:	48 hours	4 hours	2 hours
Recoat:			
minimum:	16 hours	4 hours	2 hours
maximum:	1 year	1 year	1 year

If maximum recoat time is exceeded, abrade surface before recoating.
Drying time is temperature, humidity, and film thickness dependent.
Paint temperature must be 40°F (4.5°C) minimum.

Pot Life:	10 hours	4 hours	2 hours
Sweat-in-time:	30 minutes	30 minutes	15 minutes

SURFACE PREPARATION

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

Minimum recommended surface preparation:

Iron & Steel:	Atmospheric: SSPC-SP2/3/ ISO8501-1:2007 St 2 or SSPC-SP WJ-3 / NACE WJ-3L Immersion: SSPC-SP10 / NACE 2/ ISO8501-1:2007 Sa 2.5, 2-3 mil (50-75 micron) profile or SSPC-SP WJ-2/NACE WJ-2L
Stainless Steel:	Atmospheric: SSPC-SP16, 1 mil (25 micron) profile
Aluminum & Galvanizing:	SSPC-SP1. If surface has not be weathered for more than 6 months, follow SSPC-SP1 then SSPC-SP16. For fire proofing projects, consult a Sherwin-Williams representative for surface preparation requirements.
Concrete & Masonry:	Atmospheric: SSPC-SP13/NACE 6, or ICRI No. 310.2R CSP 1-3 Immersion: SSPC-SP13/NACE 6-4.3.1
Ductile Iron Pipe:	Atmospheric: NAPF 500-03-03 Power Tool Cleaning Buried & Immersion: NAPF 500-03-04 Abrasive Blast Cleaning Cast Ductile Iron Fittings: NAPF 500-03-05 Abrasive Blast Cleaning

Protective & Marine Coatings
PRODUCT DATA SHEET

MACROPOXY® 646
FAST CURE EPOXY MASTIC

APPLICATION

Airless Spray*
Pump 30:1
Pressure ..... 2800-3000 psi (193-206 bar)
Hose ..... 1/4" ID (6.3 mm)
Tip ..... .017"-.023" (0.43-0.58 mm)
Filter ..... 60 mesh
Reduction ..... As needed up to 10% by volume

Conventional Spray*
Gun ..... DeVilbiss MBC-510
Fluid Tip ..... E
Air Nozzle 704
Atomization Pressure ..... 60-65 psi (4.1-4.5 bar)
Fluid Pressure ..... 10-20 psi (0.7-1.4 bar)

Brush*
Brush ..... Nylon/Polyester or Natural Bristle

Roller*
Cover ..... 3/8" woven with solvent resistant core

Plural Component Spray .... Acceptable

*Reduction[1] ..... VOC Restricted Areas (<250 g/L): use Reducer #111 or Oxsol 100

[1]Other areas (<340 g/L): use Reducer #111, Oxsol 100, or Reducer #15 up to 10%. Choose a reducer that is compliant in your area. Confirm compliance with state and local air quality rules before use.

If specific application equipment is not listed above, equivalent equipment may be substituted.

RECOMMENDED SYSTEMS

Dry Film Thickness / ct.		Mils	(Microns)
Steel & Ductile Iron, Immersion & Atmospheric			
2 Cts.	Macropoxy 646	5.0-10.0	(125-250)
Steel, Organic Zinc Primer, Atmospheric			
1 Ct.	Zinc Clad IV (85)	3.0-5.0	(75-125)
1 Ct.	Macropoxy 646	5.0-10.0	(125-250)
Steel, Inorganic Zinc Primer, Atmospheric			
1 Ct.	Zinc Clad II (85)	2.0-4.0	(50-100)
1 Ct.	Macropoxy 646	5.0-10.0	(125-250)
Steel, Organic Zinc/Epoxy/Urethane Topcoat			
1 Ct.	Zinc Clad IV (85)	3.0-5.0	(75-125)
1 Ct.	Macropoxy 646	3.0-10.0	(75-250)
1 Ct.	Acrolon 7300	2.0-4.0	(50-100)
Steel, Inorganic Zinc/Epoxy/Urethane Topcoat			
1 Ct.	Zinc Clad II (85)	2.0-4.0	(50-100)
1 Ct.	Macropoxy 646	3.0-10.0	(75-250)
1 Ct.	Acrolon 7300	2.0-4.0	(50-100)
Steel, Organic Zinc/Epoxy/Polysiloxane Topcoat, Atmospheric			
1 Ct.	Zinc Clad IV (85)	3.0-5.0	(75-125)
1 Ct.	Macropoxy 646	3.0-10.0	(75-250)
1-2 Cts.	Sher-Loxane 800	4.0-6.0	(100-150)
Steel: Norsok M501 System 7B/Subsea			
2 Cts.	Macropoxy 646	7.0	(175)
Concrete/Masonry, Smooth, Immersion & Atmospheric			
2 Cts.	Macropoxy 646	5.0-10.0	(125-250)

The systems listed above are representative of the product's use, other systems may be appropriate.

WARRANTY

The Sherwin-Williams Company warrants our products to be free of manufacturing defects in accord with applicable Sherwin-Williams quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by Sherwin-Williams. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

APPLICATION CONDITIONS

Temperature:
Air: 35°F (1.7°C) minimum, 120°F (49°C) maximum
Surface*: 35°F (1.7°C) minimum, 250°F (120°C) maximum
Material: 40°F (4.5°C) minimum
At least 5°F (2.8°C) above dew point

Relative humidity: 85% maximum

*Application to surfaces above 120°F (49°C) is not recommended in VOC Restricted Areas (≤250 g/L). When spraying a surface above 120°F (49°C) in other areas (>250 g/L), please consult with your Sherwin-Williams representative.

APPROVALS

- Suitable for use in USDA inspected facilities
- Acceptable for use in Canadian Food Processing facilities, categories: D1, D2, D3 (Confirm acceptance of specific part numbers/rexes with your SW Sales Representative)
- Conforms to AWWA D102 OCS #5
- Conforms to MPI # 108
- This product meets specific design requirements for non-safety related nuclear plant applications in Level II, III and Balance of Plant, and DOE nuclear facilities
- Meets Class A requirements for Slip Coefficient, 0.36 @ 6 mils / 150 microns dft (Mill White only)
- Approved intermediate for NEPCOAT System B
- Approved to Norsok M501 system 7B (limited colors)
- ISO 12944:2018 approved for C2 to CX

ADDITIONAL NOTES

Tint Part A with Maxitoners at 150% strength. Five minutes minimum mixing on a mechanical shaker is required for complete mixing of color.

Tinting is not recommended for immersion service.

Quick-Kick Epoxy Accelerator is acceptable for use. See data page for details.

Acceptable for concrete floors.

Application to surfaces above 120°F (49°C) is not recommended in VOC Restricted Areas (≤250 g/L). When spraying a surface above 120°F (49°C) in other areas (>250 g/L), please consult with your Sherwin-Williams representative. Spray apply only. Product will produce an orange peel appearance when applied at elevated temperatures.

Topcoating: It is recommended to apply a thinned-down, low wet film thickness mist coat over zinc rich primers to help avoid outgassing. Allow it to tack up and seal the surface. Then apply a full wet film thickness coat as directed.

Mix contents of each component thoroughly with low speed power agitation. Make certain no pigment remains on the bottom of the can. Then combine one part by volume of Part A with one part by volume of Part B. Thoroughly agitate the mixture with power agitation. Allow the material to sweat-in as indicated prior to application. Re-stir before using.

HEALTH AND SAFETY

Refer to the SDS sheet before use.
Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

DISCLAIMER

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Sheet.

UNIVERSITY OF RHODE ISLAND

GREEN, NEWMAN HALL, HUMAN RESOURCES BUILDING AND INTERNATIONAL HOUSE FIRE ESCAPE IMPROVEMENTS

KINGSTON, RHODE ISLAND

OCP PROJECT ID #: KC.G. GREE.2022.001 & KC.G.NEWM.2022.001 & KC.G. HUMA.2022.001

HUMAN RESOURCES
80 Lower College Road
Kingston, RI 02881

GREEN HALL
35 Campus Avenue
Kingston, RI 02881

NEWMAN HALL
14 Upper College Road
Kingston, RI 02881

INTERNATIONAL HOUSE
37 Lower College Road
Kingston, RI 02881

ODEH ENGINEERS

332 CONGRESS ST, 6TH FLOOR
BOSTON, MA 02210

TECTON ARCHITECTS

34 SEQUASSEN STREET
SUITE 200
HARTFORD, CT 06106

THE UNIVERSITY OF RHODE ISLAND
THINK BIG WE DO

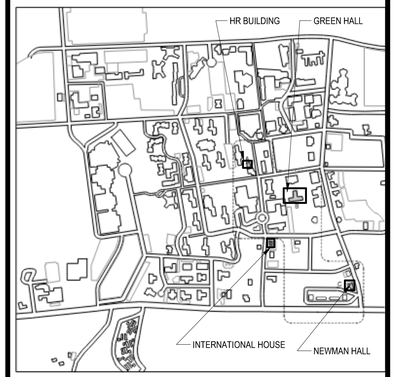
DRAWING LIST

GENERAL
G0.0 COVER SHEET

STRUCTURE
S0.0 GENERAL NOTES
S1.7 HUMAN RESORCES WEST ELEVATION
S1.8 HUMAN RESORCES REPAIR DETAILS
S1.10 GREEN HALL EAST ELEVATION
S1.12 NEWMAN HALL SOUTH ELEVATION
S1.13 NEWMAN HALL REPAIR DETAIL

FIRE ESCAPE DETAILS
A-11 HUMAN RESOURCES DETAILS 1
A-12 HUMAN RESOURCES DETAILS 2
A-21 GREEN HALL DETAILS 1
A-22 GREEN HALL DETAILS 2
A-31 NEWMAN HALL DETAILS 1
A-32 NEWMAN HALL DETAILS 2
A-33 NEWMAN HALL DETAILS 3
A-41 INT. HOUSE DETAILS 1

LOCATION PLAN
NOT TO SCALE



NOTE: REFER TO STRUCTURAL PLANS FOR ALL IMPROVEMENTS TO THE EXISTING FIRE ESCAPES (STRUCTURAL AND OTHERWISE). INFORMATION CONTAINED HEREIN IS INTENDED TO BE SUPPLEMENTAL TO THE STRUCTURAL DWGS AND IN NO WAY SUPERCEDES THESE REQUIREMENTS.

PROJECT NORTH

PROJECT NARRATIVE

FIRE ESCAPE REPAIRS AND UPGRADES TO HUMAN RESOURCES, GREEN HALL, NEWMAN HALL AND INTERNATIONAL HOUSE .

Note: The University Environmental Health & Safety Office has tested the fire escapes and indicated that no evidence of the presence of lead was detected.

ISSUED FOR BIDDING
11-02-2023

PROJECT NAME: GREEN, NEWMAN HALL, HUMAN RESOURCES BUILDING AND INTERNATIONAL HOUSE FIRE ESCAPE IMPROVEMENTS

PROJECT NUMBER: URI70IN

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7/7/2023 4:00:11 PM

UNIVERSITY OF RHODE ISLAND
FIRE ESCAPE UPGRADE 2023

GENERAL NOTES

A. GENERAL

1. ALL WORK IN THE EXISTING STRUCTURE SHALL CONFORM TO THE RHODE ISLAND REHABILITATION AND FIRE CODE FOR EXISTING BUILDINGS AND STRUCTURES SRC-1 AND ITS APPLICABLE REFERENCED STANDARDS. ALL NEW WORK SHALL CONFORM TO THE RHODE ISLAND STATE BUILDING CODE SBC-1-2019 (INTERNATIONAL BUILDING CODE [IBC] 2015 WITH AMENDMENTS) AND ITS APPLICABLE REFERENCED STANDARDS (HEREIN REFERRED TO AS THE *BUILDING CODE*).
2. ALL REFERENCES TO THE CONTRACTOR IN THIS SET OF DRAWINGS REFER TO THE GENERAL CONTRACTOR, CONSTRUCTION MANAGER, AND OTHER PARTY OR PARTIES RESPONSIBLE FOR THE EXECUTION OF THE PROJECT.
3. ALL REFERENCES TO A PROFESSIONAL ENGINEER, STRUCTURAL ENGINEER, AND GEOTECHNICAL ENGINEER IN THIS SET OF DRAWINGS REFERS TO A PROFESSIONAL ENGINEER COMPETENT IN THE RESPECTIVE FIELD OF DESIGN WHO IS REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED.
4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AS THEY RELATE TO NEW CONSTRUCTION. REPORT ALL OBSERVATIONS AND ANY DISCREPANCIES TO THE ARCHITECT/ENGINEER OF RECORD AS A REQUEST FOR INFORMATION (RFI) BEFORE PROCEEDING WITH WORK.
5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE FOR A SAFE AND EFFICIENT METHOD OF SHORING AND BRACING THE STRUCTURE DURING ALL CONSTRUCTION PHASES. ALL SHORING AND BRACING SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER. SUBMIT AN OUTLINE OF PROPOSED PROCEDURE AND ITS IMPACT ON THE BUILDING STRUCTURE FOR RECORD TO THE ARCHITECT/ENGINEER OF RECORD BEFORE PROCEEDING WITH WORK.
6. THE EVALUATION OF THE STRUCTURE TO SAFELY SUPPORT ANY AND ALL CONSTRUCTION LOADING (E.G. EQUIPMENT LOADS, TEMPORARY LOADS FROM DEBRIS AND MATERIAL STORAGE) IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. THE DESIGN TEAM HAS DESIGNED THE STRUCTURE FOR THE PERMANENT DEAD LOADS AND UNIFORM LIVE LOADS INDICATED ON THE STRUCTURAL DRAWINGS ACCORDING TO THE REQUIREMENTS OF THE BUILDING CODE. THE CONTRACTOR SHALL ENGAGE A STRUCTURAL ENGINEER TO EVALUATE PROPOSED CONSTRUCTION LOADING AND TO DESIGN ALL TEMPORARY BRACING AND SHORING SYSTEMS THAT MAY BE REQUIRED DUE TO THE CONTRACTOR'S MEANS AND METHODS AND SEQUENCE OF CONSTRUCTION.
7. STRUCTURAL MEMBERS SHALL NOT BE MODIFIED WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD. ANY ANTICIPATED MODIFICATIONS TO THE CONSTRUCTION DOCUMENTS MUST BE SUBMITTED TO THE ARCHITECT/ENGINEER OF RECORD AS AN RFI FOR REVIEW AND COMMENT. IN THE EVENT OF A CONSTRUCTION OR FABRICATION ERROR, THE CONTRACTOR SHALL PREPARE A SKETCH AND CALCULATIONS, PREPARED BY A STRUCTURAL ENGINEER, DOCUMENTING THE PROPOSED CORRECTIVE ACTION AND SUBMIT IT TO THE ARCHITECT/ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO PERFORMING ANY CORRECTIVE WORK. ODEH ENGINEERS, CANNOT CERTIFY ANY UNAUTHORIZED DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS.
8. PRIOR TO REQUESTING A SITE VISIT BY ODEH ENGINEERS FOR OBSERVATION OF A COMPLETED STAGE OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT A STATEMENT TO THE ARCHITECT/ENGINEER OF RECORD THAT ALL WORK HAS BEEN COMPLETED IN CONFORMANCE WITH THE STRUCTURAL CONTRACT DRAWINGS AND SHOP DRAWINGS WITHOUT EXCEPTION, OR HAS BEEN PERFORMED WITH FORMAL WRITTEN EXCEPTIONS ORIGINATING FROM OR AUTHORIZED BY ODEH ENGINEERS.
9. PRIOR TO RELEASE OF THE FINAL PROJECT CERTIFICATION TO THE BUILDING OFFICIAL, ODEH ENGINEERS REQUIRES A LETTER FROM THE CONTRACTOR'S PROJECT EXECUTIVE IN RESPONSIBLE CHARGE STATING THAT ALL WORK INDICATED ON THE STRUCTURAL DRAWINGS HAS BEEN PERFORMED WITHOUT EXCEPTION OR WAS PERFORMED WITH FORMAL WRITTEN EXCEPTIONS ORIGINATING FROM OR AUTHORIZED BY ODEH ENGINEERS. IN ADDITION, ODEH ENGINEERS REQUIRES A LETTER FROM THE PRINCIPAL OF THE TESTING AND INSPECTIONS AGENCY CERTIFYING THAT ALL TESTING AND INSPECTIONS WORK HAS BEEN COMPLETED IN CONFORMANCE WITH THE PROJECT STATEMENT OF SPECIAL INSPECTIONS AND THAT ALL STRUCTURAL NONCONFORMANCE CONDITIONS FOUND HAVE BEEN BROUGHT INTO CONFORMANCE WITH THE PROJECT STRUCTURAL REQUIREMENTS PRIOR TO PROJECT COMPLETION.
10. THE TRADE CONTRACTORS SHALL SUBMIT SHOP AND ERECTION DRAWINGS AS WELL AS PRODUCT DATA (COLLECTIVELY KNOWN HEREIN AS "SHOP DRAWINGS") FOR REVIEW PRIOR TO PROCEEDING WITH FABRICATION AND/OR CONSTRUCTION.
    a. THE SHOP DRAWINGS SHALL BE PREPARED IN ACCORDANCE WITH THE LATEST EDITION OF THE CODE OF STANDARD PRACTICE FOR EACH RESPECTIVE TRADE IN CONJUNCTION WITH ADDITIONAL SHOP DRAWING REQUIREMENTS INDICATED ON THESE DRAWINGS.
    b. ALL SHOP DRAWINGS SHALL BE FULLY DEVELOPED BY THE TRADE CONTRACTORS OR BY AGENTS OF THE CONTRACTORS. CAD FILES, PHOTOCOPIES, OR OTHER REPRODUCTIONS OF THE CONTRACT DRAWINGS IN WHOLE OR IN PART SHALL NOT BE USED BY THE TRADE CONTRACTORS OR THEIR AGENTS FOR THE PREPARATION AND DEVELOPMENT OF SHOP DRAWINGS WITHOUT THE EXPRESSED WRITTEN CONSENT OF ODEH ENGINEERS.
    c. ALL SUBMITTALS SHALL BE IN UNLOCKED PDF FORMAT WITH SEARCHABLE TEXT.
11. ALL 3D VIEWS INCLUDED ON THE STRUCTURAL DRAWINGS ARE FOR REFERENCE ONLY. THE 3D VIEWS ONLY SHOW BASIC STRUCTURAL ELEMENTS. THEY DO NOT INCLUDE DETAILS SUCH AS EXTERIOR RAMPS AND STAIRS, SLAB AND ROOF PITCHES, OR SPECIFIC STRUCTURAL DETAILS. REFER TO ALL PLANS, DETAIL SHEETS, AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION. DO NOT SCALE OFF OF THESE DRAWINGS.
12. DO NOT SCALE OFF OF THESE DRAWINGS.

B. CONCRETE

1. ALL CONCRETE WORK SHALL BE IN CONFORMANCE WITH THE *BUILDING CODE* AND ACI 318 AND 301 REQUIREMENTS. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, PROPORTIONING OF CONCRETE MIX, CONCRETE TESTING, PLACEMENT OF CONCRETE, AND CURING PROCEDURES.
2. PROVIDE A MINIMUM COMPRESSIVE STRENGTH, f'_c OF 4,000PSI.
3. ALL REINFORCING STEEL SHALL CONFORM TO THE FOLLOWING MATERIAL SPECIFICATIONS:
    a. REINFORCING BARS: ASTM A615 (F_y=60 KSI, MIN.)
    b. WELDED WIRE REINFORCEMENT: ASTM A1064 (F_y=60 KSI, MIN.)
4. SET AND TIE ALL REINFORCEMENT, ANCHOR BOLTS, AND CAST-IN AND EMBEDDED ITEMS PRIOR TO PLACING CONCRETE. SETTING OF DOWELS AND REINFORCEMENT INTO WET CONCRETE SHALL NOT BE ALLOWED.
5. DETAILING OF REINFORCEMENT SHALL BE ACCORDING TO THE LATEST EDITION OF THE ACI 315 "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES". PROVIDE BAR SUPPORTS, SPACERS, AND ACCESSORIES RECOMMENDED IN THE LATEST EDITION OF THE ACI DETAILING MANUAL, PUBLICATION SP-66. ALL ACCESSORIES IN CONTACT WITH EXPOSED SURFACES SHALL BE PLASTIC-COATED. PROVIDE SCHEDULE OF ALL ACCESSORIES WITH SHOP DRAWINGS FOR REVIEW.
6. CONCRETE SHALL MEET MINIMUM 40% OF ITS 28 DAY COMPRESSIVE STRENGTH (f'_c) PRIOR TO REMOVING FORMS AND/OR SHORES:
7. UNLESS NOTED OTHERWISE, PROVIDE REINFORCEMENT COVER PER THE TABLE AT THE END OF THIS SECTION.
8. PLACE ALL SLABS PER ACI 301 AND ACI 302.1 SPECIFICATIONS. UNLESS NOTED OTHERWISE, PROVIDE THE FOLLOWING MINIMUM FLOOR FLATNESS AND LEVELNESS:
    a. SLABS ON GRADE:
        1. OVERALL FLOOR FLATNESS FF = ***35***
        2. LOCAL FLOOR FLATNESS FF_L = ***25***
        3. OVERALL FLOOR LEVELNESS FL = ***25***
        4. LOCAL FLOOR LEVELNESS FL_L = ***17***
        INDIVIDUAL SECTIONAL BOUNDARIES FOR LOCAL MEASUREMENTS SHALL BE SET AT CONSTRUCTION AND CONTROL JOINT LOCATIONS. IN THE ABSENCE OF CONSTRUCTION AND CONTROL JOINTS, BOUNDARIES SHALL BE COLUMN LINES AND HALF-COLUMN LINES OR 15'-0" WIDE SEGMENTS, WHICHEVER IS LESS.
    b. COMPOSITE FLOOR SLABS:
        1. OVERALL FLOOR FLATNESS, FF = ***25***
        2. LOCAL FLOOR FLATNESS, FF_L = ***17***
        INDIVIDUAL SECTIONAL BOUNDARIES FOR LOCAL MEASUREMENTS SHALL BE COLUMN LINES AND HALF-COLUMN LINES OR 10'-0" WIDE SEGMENTS, WHICHEVER IS LESS.
9. ALL CONCRETE MIX DURATION TIMES SHALL BE LESS THAN 90 MINUTES.
10. ALL CONCRETE MUST BE PLACED FROM A HEIGHT NOT GREATER THAN 4'-0" ABOVE ITS FINAL POSITION.
11. SUBMIT PROPOSED MIX DESIGN OF EACH CONCRETE TYPE AND REINFORCING SHOP DRAWINGS FOR REVIEW.

MINIMUM REINFORCEMENT COVER

CONCRETE EXPOSURE	MEMBER	REINFORCEMENT	MINIMUM COVER
CAST AGAINST AND PERMANENTLY IN CONTACT WITH GROUND	ALL	ALL	3 INCHES

C. STRUCTURAL STEEL

1. ALL STEEL WORK SHALL BE IN CONFORMANCE WITH THE *BUILDING CODE* AS WELL AS WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATIONS AND ITS CODE OF STANDARD PRACTICE.
2. MATERIAL SPECIFICATIONS:
    a. S, M, C, MC SHAPES ..... ASTM A36
    b. L SHAPES, MISC. PLATES AND BARS ..... ASTM A36
    c. THREADED RODS, THREADED FASTENERS ..... ASTM A36
    d. BOLTS ..... ASTM F3125, GRADE A325/A490
    e. ANCHOR RODS ..... ASTMF1554, GRADE 36 MIN.
3. ALL WELDING OPERATIONS SHALL BE PERFORMED BY AWS CERTIFIED WELDERS IN CONFORMANCE WITH ALL APPLICABLE REQUIREMENTS. USE E70XX WELDING ELECTRODES.
4. ALL NEW STRUCTURAL STEEL SHALL BE GIVEN ONE COAT OF AN APPROVED SHOP PRIMER APPLIED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, UNLESS NOTED OTHERWISE. AT A MINIMUM, SURFACE PREPARATION OF STEEL PRIOR TO SHOP PAINTING SHALL CONFORM TO SSPC SP3. COORDINATE ALL SURFACE PREPARATION FOR PAINTED STEEL WITH THE PAINT MANUFACTURER'S REQUIREMENTS. TOUCH-UP ALL SHOP PRIMED COATS DAMAGED DURING TRANSPORTATION AND ERECTION AND PRIME ALL FIELD WELDS USING THE SAME PAINT USED FOR SHOP PRIMING.
5. ALL STRUCTURAL STEEL AND CONNECTIONS EXPOSED TO THE ELEMENTS SHALL BE OR MAY BE PRIMED AND PAINTED WITH AN APPROVED EPOXY PAINT SYSTEM.
    a. ALL REQUIRED EXPOSED STEEL LOCATIONS ARE NOT INDICATED AT ALL REQUIRED LOCATIONS ON THE STRUCTURAL DRAWINGS REGARDLESS IF DRAWINGS SPECIFY SOME SPECIFIC LOCATIONS.
6. SUBMIT SHOP DRAWINGS AND CONNECTION DESIGN CALCULATIONS (SEE SECTION REGARDING *ENGINEERING REQUIREMENTS FOR CONTRACTOR*) FOR REVIEW.

NORTH

LOCUS PLAN

NO SCALE

DRAWING LIST

MARK	DRAWING TITLE	SHEET NUMBER
	GENERAL NOTES	S0.0
A	HUMAN RESOURCES WEST ELEVATION	S1.7
	HUMAN RESOURCES REPAIR DETAILS	S1.8
B	GREEN HALL EAST ELEVATION	S1.10
C	NEWMAN HALL SOUTH ELEVATION	S1.12
	NEWMAN HALL REPAIR DETAILS	S1.13

DESIGN LIMITATATIONS NOTE

THIS WORK NOTED ON THESE DRAWINGS WILL ENHANCE THE SAFETY OF THE EXISTING CONDITIONS BUT WILL NOT BE IN CONFORMANCE WITH ANY CURRENT BUILDING STANDARD. IT IS THE INTENT OF THESE DRAWINGS TO ONLY IMPROVE THE SAFETY OF THE EXISTING CONDITIONS OF THE FIRE ESCAPES.

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North Providence, RI 02904
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Fax: 401.724.1981
www.odehengineers.com

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Hartford CT, Westerly RI
860 548 0802
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M. DAVID ODEH
No. 3082
REGISTERED PROFESSIONAL ENGINEER

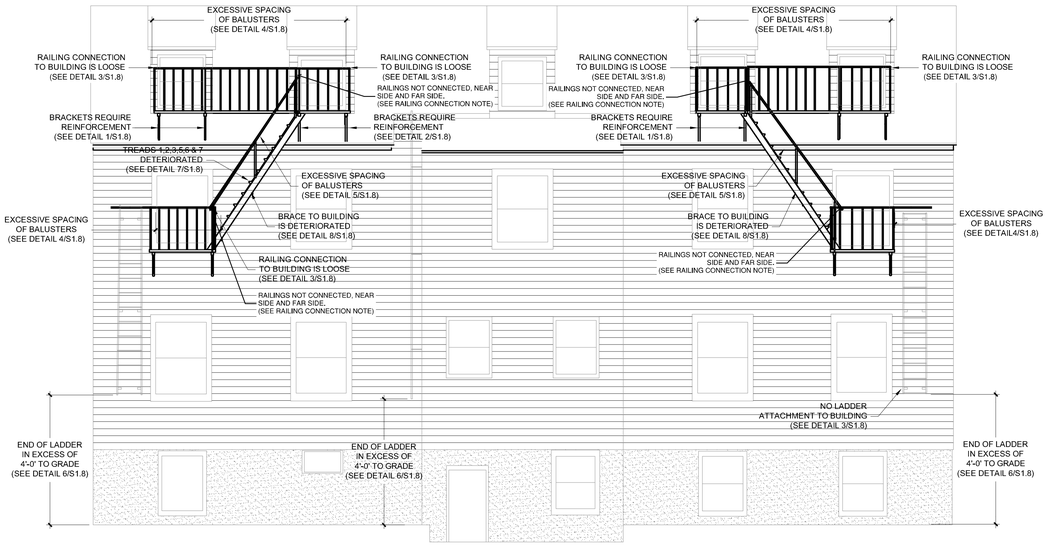
PROJECT TITLE
FIRE ESCAPE IMPROVEMENTS

UNIVERSITY OF RHODE ISLAND
KINGSTON, RI

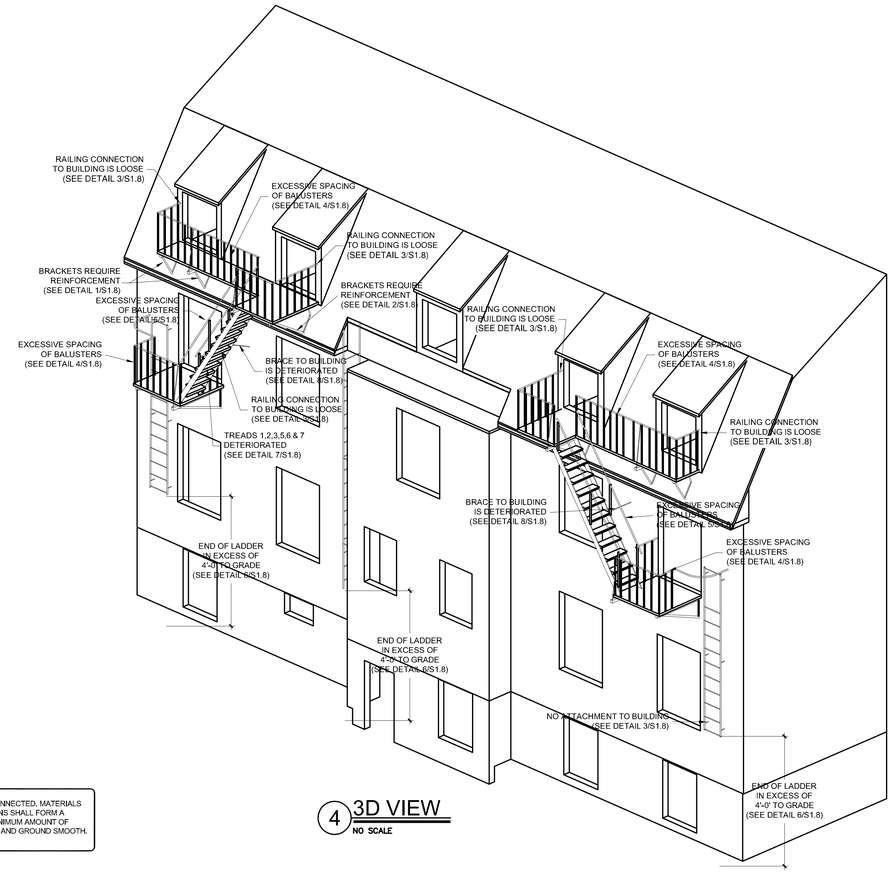
SHEET CONTENTS
GENERAL NOTES

SCALE	
DRAWN BY	ACR
CHECKED BY	MDO
DATE	July 7, 2023
PROJECT NO.	2023-00078

DRAWING NO.
S0.0



1 WEST ELEVATION
1/4"=1'-0"



4 3D VIEW
NO SCALE

DESIGN LIMITATATIONS NOTE

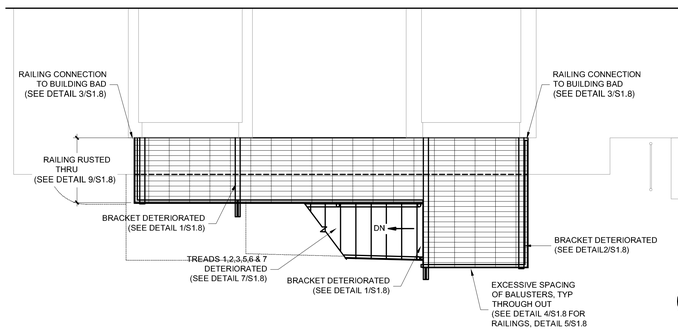
THIS WORK NOTED ON THESE DRAWINGS WILL ENHANCE THE SAFETY OF THE EXISTING CONDITIONS BUT WILL NOT BE IN CONFORMANCE WITH ANY CURRENT BUILDING STANDARD. IT IS THE INTENT OF THESE DRAWINGS TO ONLY IMPROVE THE SAFETY OF THE EXISTING CONDITIONS OF THE FIRE ESCAPES.

PAINTING NOTE

THE EXISTING FIRE ESCAPE SHALL BE ABRASIVELY CLEANED AND PAINTED WITH A RUST RESISTANT PAINT SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ABATEMENT AND THE SUBMISSION OF AN ABATEMENT PLAN TO THE OWNER. BEFORE THE NEW PAINT IS APPLIED, A FOLLOW UP INSPECTION OF THE FIRE ESCAPE SHALL BE MADE, AND ADDITIONAL REPAIRS, IF REQUIRED, SHALL BE SPECIFIED. THE CONTRACTOR SHALL USE A RUST RESISTING PAINT. COORDINATE COLOR WITH THE OWNER

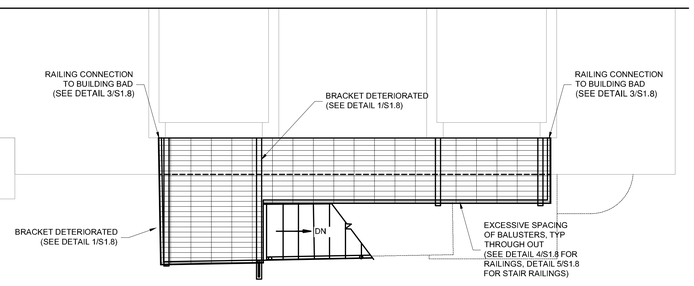
RAILING CONNECTION NOTE

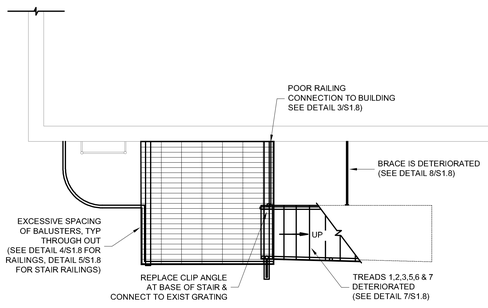
WHERE INDICATED, THE RAILINGS PIPE SHALL BE CONNECTED. MATERIALS SHALL BE TO MATCH THE EXISTING. ALL CONNECTIONS SHALL FORM A SMOOTH TRANSITION BETWEEN RAILINGS WITH A MINIMUM AMOUNT OF BENDS. ALL CONNECTIONS SHALL BE WELDED CONT AND GROUND SMOOTH.



FIRE ESCAPE UPPER LEVEL DETERIORATION PLAN

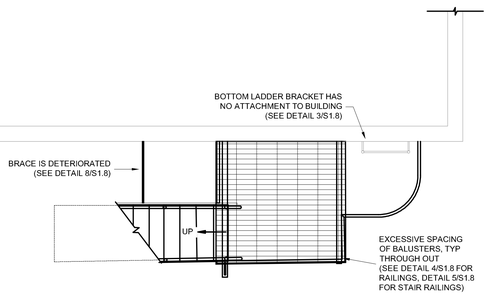
2
1/2"=1'-0"

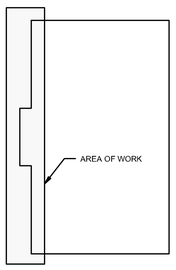




FIRE ESCAPE LOWER LEVEL DETERIORATION PLAN

3
1/2"=1'-0"





KEY PLAN

odeh engineers
1223 Mineral Spring Avenue
North Providence, RI 02904
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M. DAVID ODEH
No. 3082
REGISTERED PROFESSIONAL ENGINEER

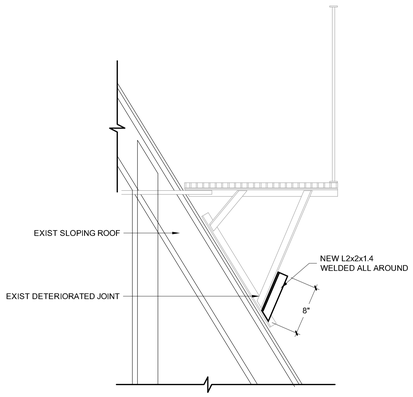
PROJECT TITLE
FIRE ESCAPE IMPROVEMENTS

UNIVERSITY OF RHODE ISLAND
KINGSTON, RI

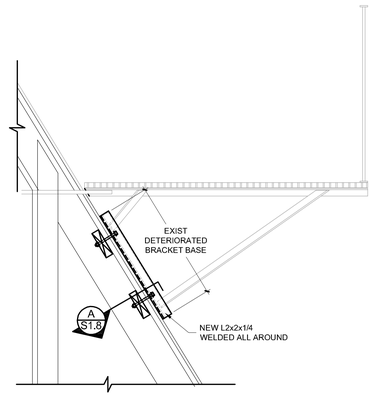
SHEET CONTENTS
HUMAN RESOURCES
WEST ELEVATION

SCALE	
DRAWN BY	ACR
CHECKED BY	MDO
DATE	July 7, 2023
PROJECT NO.	2023-00078

DRAWING NO.
S1.7



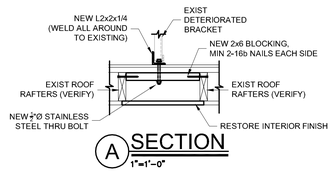
1 BRACKET JOINT REINFORCEMENT DETAIL
1"=1'-0"



2 BRACKET REINFORCEMENT DETAIL
1"=1'-0"

ROOFING NOTE

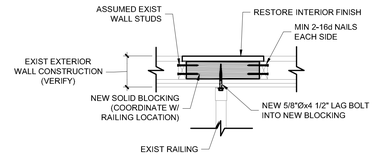
ALL INDICATED AND EXISTING CONNECTIONS TO THE ROOF SHALL BE MADE SO AS TO PRESERVE THE INTEGRITY AND WATERTIGHT NATURE OF THE ROOF MEMBRANE. COORDINATE FASTENING INFORMATION AND DETAILS WITH A ROOFING CONTRACTOR



A SECTION
1"=1'-0"

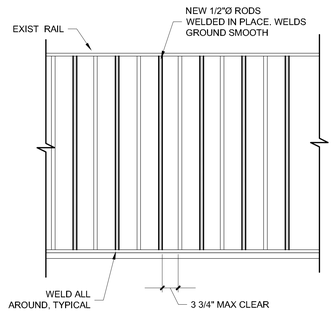
DESIGN LIMITATATIONS NOTE

THIS WORK NOTED ON THESE DRAWINGS WILL ENHANCE THE SAFETY OF THE EXISTING CONDITIONS BUT WILL NOT BE IN CONFORMANCE WITH ANY CURRENT BUILDING STANDARD. IT IS THE INTENT OF THESE DRAWINGS TO ONLY IMPROVE THE SAFETY OF THE EXISTING CONDITIONS OF THE FIRE ESCAPES.

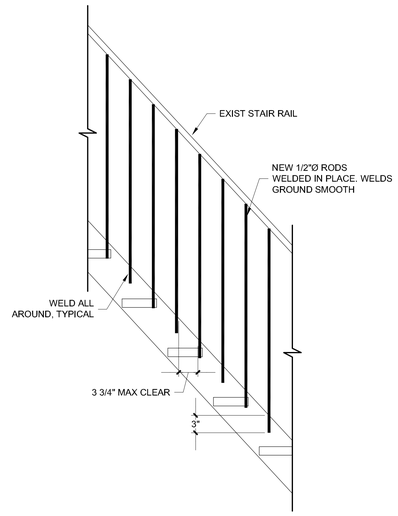


PLAN VIEW

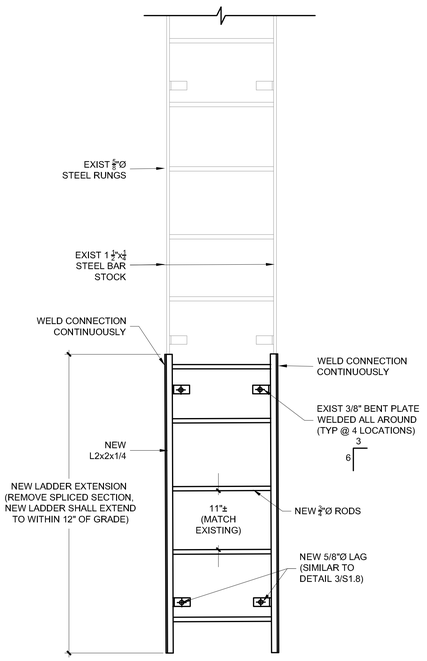
RAILING LAG REPLACEMENT DETAIL
3
1"=1'-0"



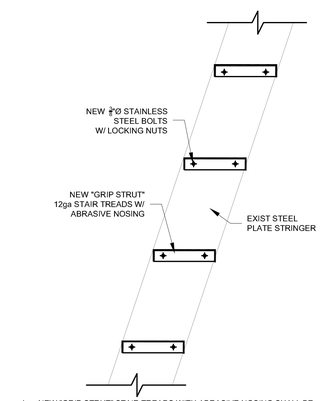
4 RAILING UPGRADE DETAIL
1"=1'-0"



STAIR RAILING UPGRADE DETAIL
5
1"=1'-0"

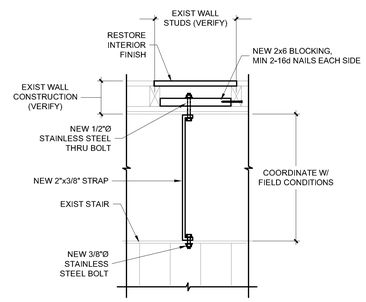


LADDER REPAIR DETAIL
6
1"=1'-0"

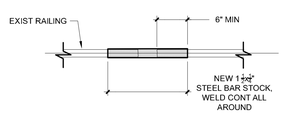


1. NEW "GRIP STRUT" STAIR TREADS WITH ABRASIVE NOSING SHALL BE AS MANUFACTURED BY McNICHOLS MANUFACTURING, TAMPA FLA.
2. REPLACE EXISTING FAILED TREADS AS INDICATED

7 SECTION
1 1/2"=1'-0"



8 BRACE REPLACEMENT DETAIL
1"=1'-0"



9 RAILING REPAIR DETAIL
1"=1'-0"

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M. DAVID ODEH
No. 3082
REGISTERED PROFESSIONAL ENGINEER

PROJECT TITLE
FIRE ESCAPE IMPROVEMENTS

UNIVERSITY OF RHODE ISLAND
KINGSTON, RI

SHEET CONTENTS
HUMAN RESOURCES REPAIR DETAILS

SCALE	
DRAWN BY	ACR
CHECKED BY	MDO
DATE	July 7, 2023
PROJECT NO.	2023-00078

DRAWING NO.
S1.8

PAINTING NOTE

THE EXISTING FIRE ESCAPE SHALL BE ABRASIVELY CLEANED AND PAINTED WITH A RUST RESISTANT PAINT SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ABATEMENT AND THE SUBMISSION OF AN ABATEMENT PLAN TO THE OWNER. BEFORE THE NEW PAINT IS APPLIED, A FOLLOW UP INSPECTION OF THE FIRE ESCAPE SHALL BE MADE, AND ADDITIONAL REPAIRS, IF REQUIRED, SHALL BE SPECIFIED. THE CONTRACTOR SHALL USE A RUST RESISTING PAINT. COORDINATE COLOR WITH THE OWNER

DESIGN LIMITATATIONS NOTE

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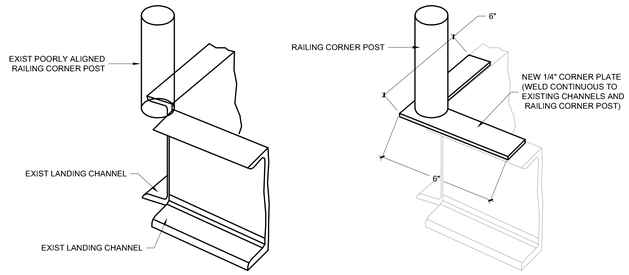
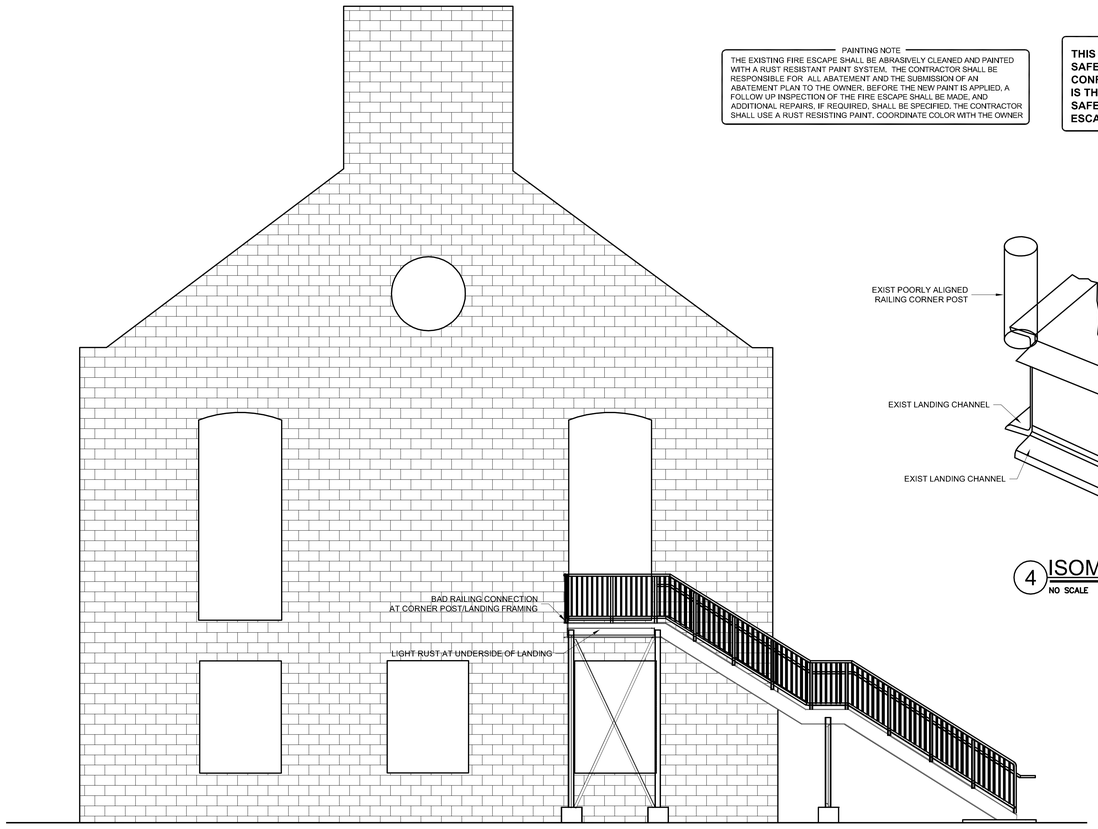
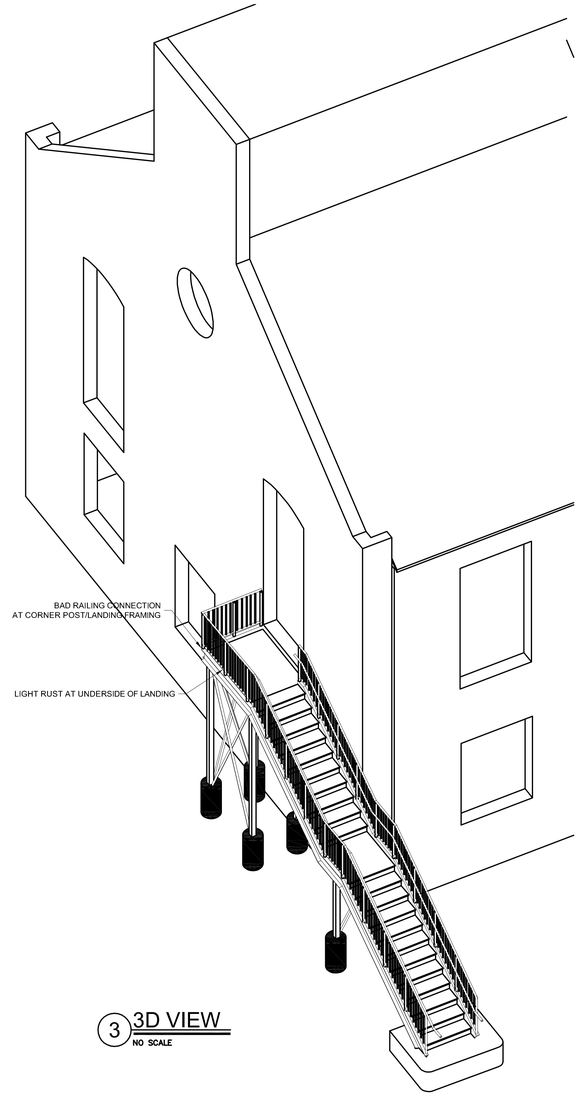


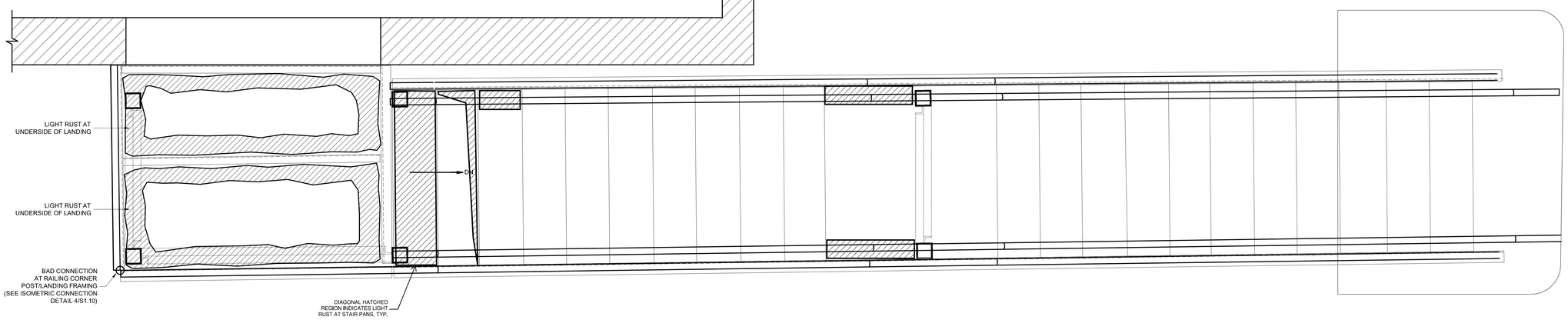
4 ISOMETRIC CONNECTION DETAIL
NO SCALE



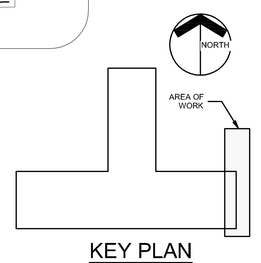
1 PARTIAL EAST ELEVATION
1/4"=1'-0"



3 3D VIEW
NO SCALE



2 FIRE ESCAPE PLAN
1"=1'-0"



KEY PLAN

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No. 3082
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PROFESSIONAL ENGINEER

PROJECT TITLE
FIRE ESCAPE
IMPROVEMENTS

UNIVERSITY OF RHODE ISLAND
KINGSTON, RI

SHEET CONTENTS
GREEN HALL
EAST ELEVATION

SCALE	
DRAWN BY	ACR
CHECKED BY	MDO
DATE	July 7, 2023
PROJECT NO.	2023-00078

DRAWING NO.
S1.10

DESIGN LIMITATATIONS NOTE

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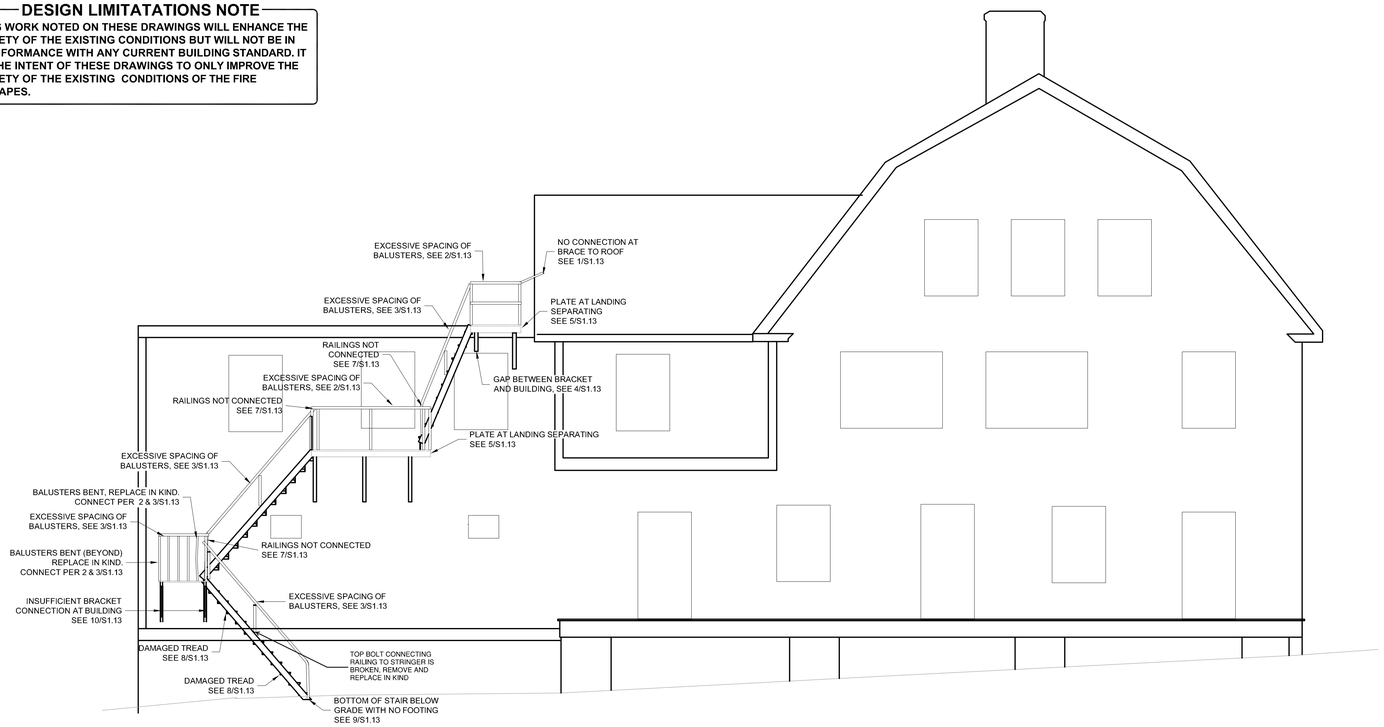
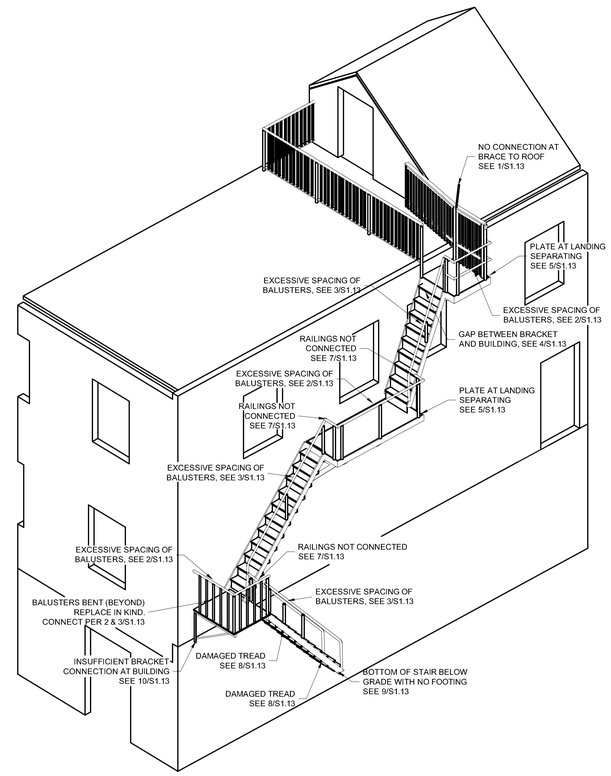
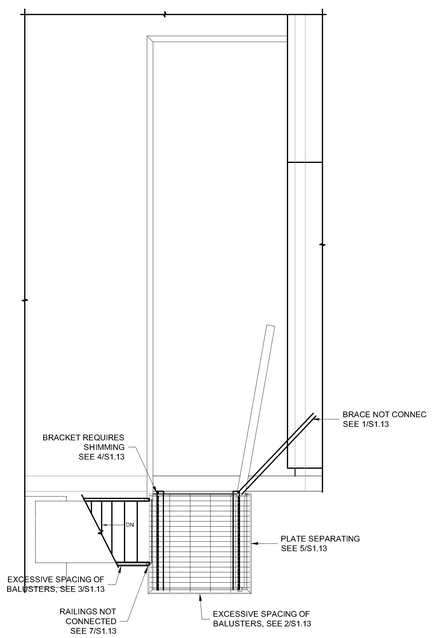


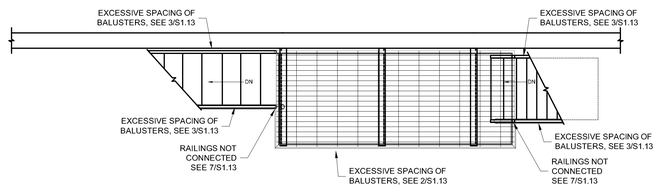
1 SOUTH ELEVATION
1/4"=1'-0"



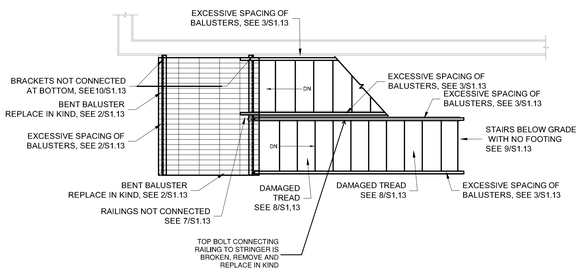
5 3D VIEW
NO SCALE



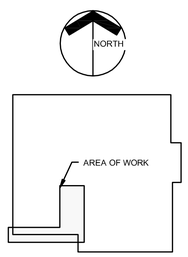
2 UPPER LANDING
1/2"=1'-0"



3 MID LANDING
1/2"=1'-0"



4 LOWER LANDING
1/2"=1'-0"



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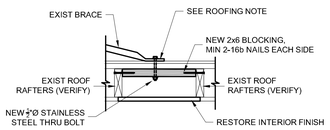
PROJECT TITLE
FIRE ESCAPE IMPROVEMENTS

UNIVERSITY OF RHODE ISLAND
KINGSTON, RI

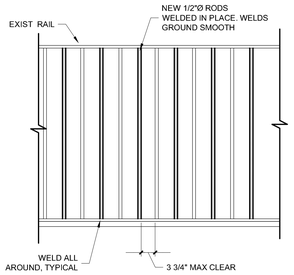
SHEET CONTENTS
NEWMAN HALL SOUTH ELEVATION

SCALE	
DRAWN BY	ACR
CHECKED BY	MDO
DATE	July 7, 2023
PROJECT NO.	2023-00078

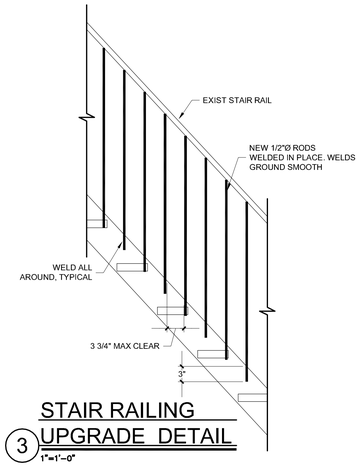
DRAWING NO.
S1.12



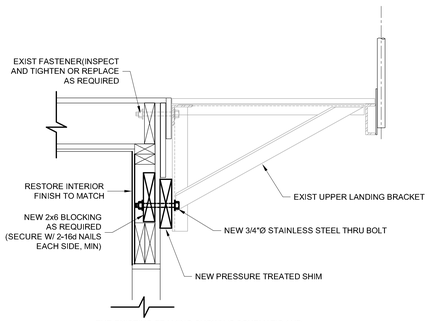
1 CONNECTION TO ROOF DETAIL
1"=1'-0"



2 RAILING UPGRADE DETAIL
1"=1'-0"

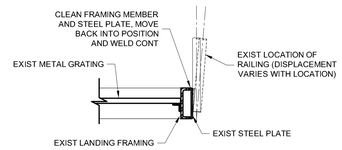


3 STAIR RAILING UPGRADE DETAIL
1"=1'-0"

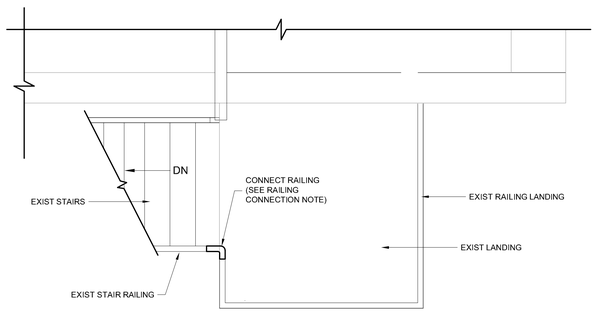


THE EXISTING FRAMING SHOWN IS SCHEMATIC AND ASSUMED. THE INTENT IS FOR THE CONTRACTOR TO PROVIDE A SOLID ANCHORAGE FOR THE REATTACHMENT OF THE EXISTING FIRE ESCAPE.

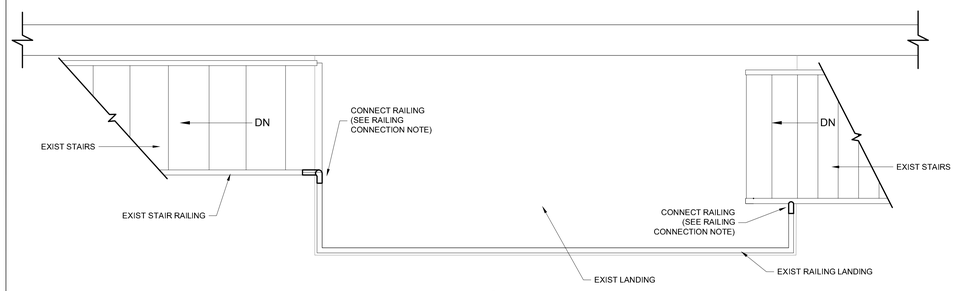
4 BRACKET SHIMMING DETAIL
1"=1'-0"



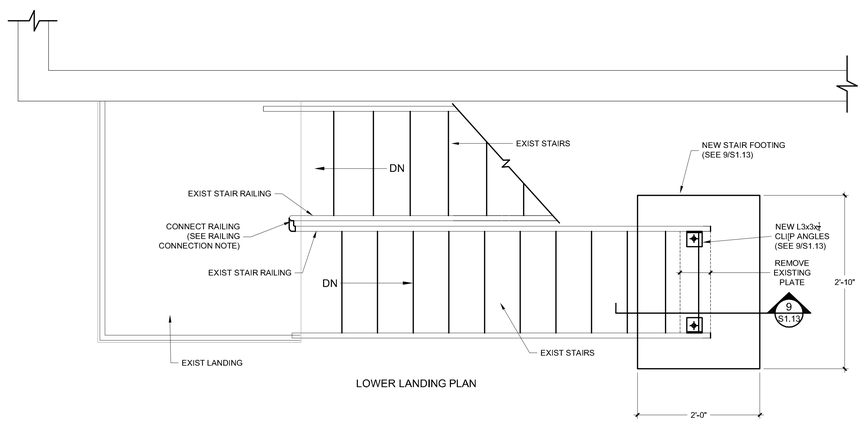
5 RAILING CONNECTION AT LANDING REPAIR DETAIL
1"=1'-0"



UPPER LANDING PLAN

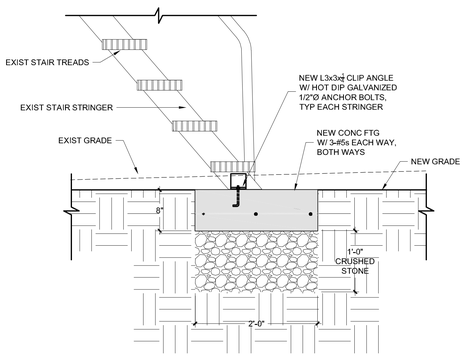


MID LANDING PLAN



LOWER LANDING PLAN

7 RAILING CONNECTION PLAN
1"=1'-0"



9 STAIR FOOTING DETAIL
1"=1'-0"

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ROOFING NOTE

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PAINTING NOTE

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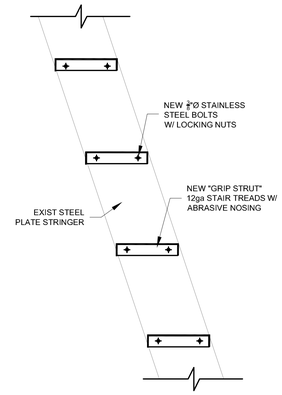
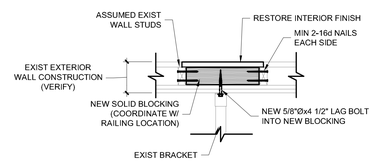
RAILING CONNECTION NOTE

WHERE INDICATED, THE RAILINGS PIPE SHALL BE CONNECTED. MATERIALS SHALL BE TO MATCH THE EXISTING. ALL CONNECTIONS SHALL FORM A SMOOTH TRANSITION BETWEEN RAILINGS WITH A MINIMUM AMOUNT OF BENDS. ALL CONNECTIONS SHALL BE WELDED CONT AND GROUND SMOOTH.



1. NEW "GRIP STRUT" STAIR TREADS WITH ABRASIVE NOSING SHALL BE AS MANUFACTURED BY McNICHOLS MANUFACTURING, TAMPA FLA.
2. REPLACE EXISTING FAILED TREADS AS INDICATED

8 STAIR TREAD REPLACEMENT
1 1/2"=1'-0"



PLAN VIEW

10 BRACKET CONNECTION REPLACEMENT DETAIL
1"=1'-0"

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M. DAVID ODEH
No. 3082
REGISTERED PROFESSIONAL ENGINEER

PROJECT TITLE
FIRE ESCAPE IMPROVEMENTS

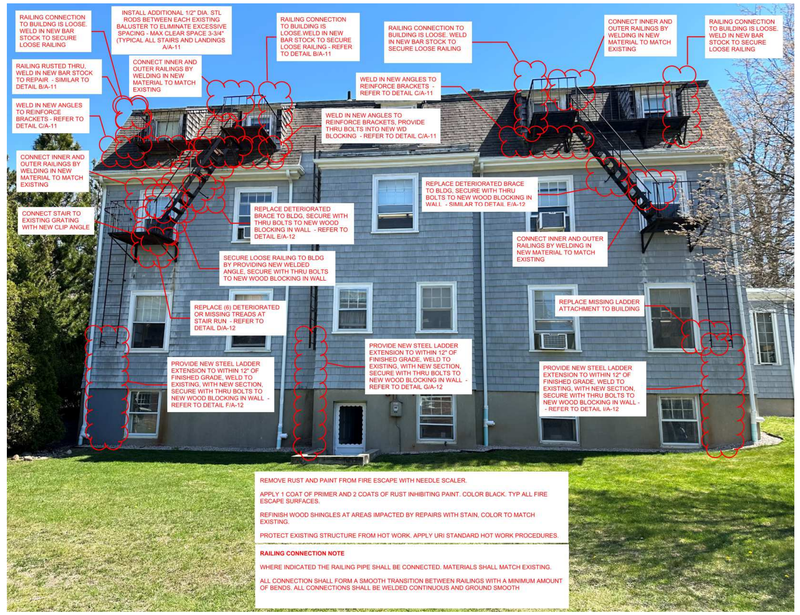
UNIVERSITY OF RHODE ISLAND
KINGSTON, RI

SHEET CONTENTS
NEWMAN HALL REPAIR DETAILS

SCALE	
DRAWN BY	ACR
CHECKED BY	MDO
DATE	July 7, 2023
PROJECT NO.	2023-00078

DRAWING NO.
S1.13

DIMENSIONS



OVERALL NOTES

DETAIL A

4

DETAIL B

5

DETAIL C

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Consultant

Client/ Contractor

UNIVERSITY OF RHODE ISLAND

KINGSTON, RI

Project

GREEN, NEWMAN HALL, HUMAN RESOURCES BUILDING AND INTERNATIONAL HOUSE FIRE ESCAPE IMPROVEMENTS

KINGSTON, RHODE ISLAND

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Seals

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Issues / Revisions

No.	Date	Description
1	7-7-2023	FOR CONSTRUCTION

Drawing Title

HUMAN RESOURCES DETAILS 1

Project Manager:	MT	Project No:	URI70IN
Project Architect:	PB	Production Leader:	
Project Designer:		Peer Reviewer:	

Drawing Number

A-11

C:\Users\PaulB\Documents\URI70IN_20C_ARCH_PaulB71JR6.rvt

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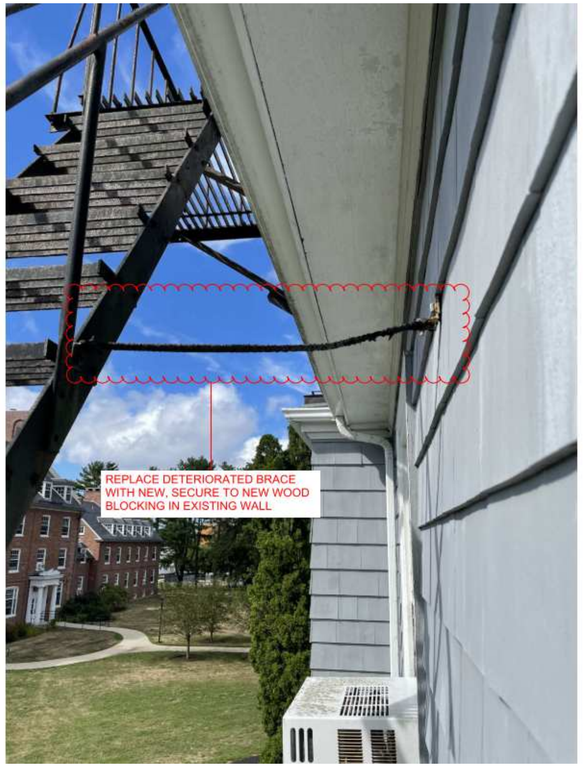
DETAIL D



DETAIL E

DETAIL F

DETAIL G

DETAIL I

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Consultant

Client/ Contractor

UNIVERSITY OF RHODE ISLAND

KINGSTON, RI

Project

GREEN, NEWMAN HALL, HUMAN RESOURCES BUILDING AND INTERNATIONAL HOUSE FIRE ESCAPE IMPROVEMENTS

KINGSTON, RHODE ISLAND

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Issues / Revisions

No.	Date	Description
1	7-7-2023	FOR CONSTRUCTION

Drawing Title

HUMAN RESOURCES DETAILS 2

Project Manager:	MT	Project No:	URI70IN
Project Architect:	PB	Production Leader:	
Project Designer:		Peer Reviewer:	

Drawing Number

A-12

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7/7/2023 4:00:11 PM

DIMENSIONS

OVERALL NOTES

DETAIL A

DETAIL B

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UNIVERSITY OF RHODE ISLAND

KINGSTON, RI

Project

GREEN, NEWMAN HALL, HUMAN RESOURCES BUILDING AND INTKINGSTON, RHODE ISLANDISE FIRE ESCAPE IMPROVEMENTS

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Issues / Revisions

No.	Date	Description
1	7-7-2023	FOR CONSTRUCTION

Drawing Title

GREEN HALL DETAILS 1

Project Manager:	MT	Project No:	URI70IN
Project Architect:	PB	Production Leader:	
Project Designer:		Peer Reviewer:	

Drawing Number

A-21

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DETAIL C

DETAIL E

DETAIL D

Tecton
ARCHITECTS

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Consultant

Client/ Contractor

UNIVERSITY OF RHODE ISLAND

KINGSTON, RI

Project

GREEN, NEWMAN HALL, HUMAN RESOURCES BUILDING AND INTERIOR FIRE ESCAPE IMPROVEMENTS

KINGSTON, RHODE ISLAND

NOTE: REFER TO STRUCTURAL PLANS FOR ALL IMPROVEMENTS TO THE EXISTING FIRE ESCAPES (STRUCTURAL AND OTHERWISE). INFORMATION CONTAINED HEREIN IS INTENDED TO BE SUPPLEMENTAL TO THE STRUCTURAL DWGS AND IN NO WAY SUPERCEDES THESE REQUIREMENTS.

Seals

ISSUED FOR PERMIT

Issues / Revisions

No.	Date	Description
1	7-7-2023	FOR CONSTRUCTION

Drawing Title

GREEN HALL
DETAILS 2

Project Manager:	MT	Project No:	URI70IN
Project Architect:	PB	Production Leader:	
Project Designer:		Peer Reviewer:	

Drawing Number

A-22

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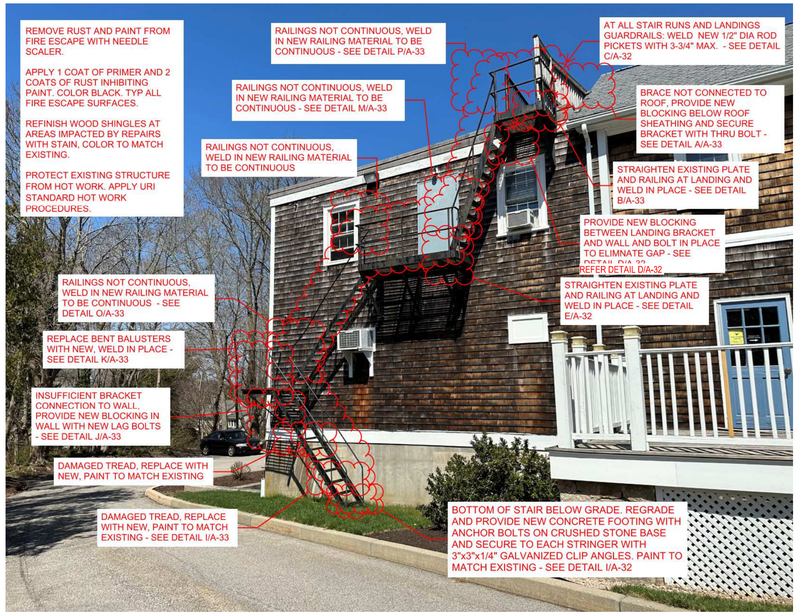

DIMENSIONS

OVERALL NOTES

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GREEN, NEWMAN HALL, HUMAN RESOURCES BUILDING AND INTKINGSTON, RHODE ISLANDISE FIRE ESCAPE IMPROVEMENTS

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Issues / Revisions

No.	Date	Description
1	7-7-2023	FOR CONSTRUCTION

Drawing Title

NEWMAN HALL DETAILS 1

Project Manager:	MT	Project No:	URI70IN
Project Architect:	PB	Production Leader:	
Project Designer:		Peer Reviewer:	

Drawing Number

A-31

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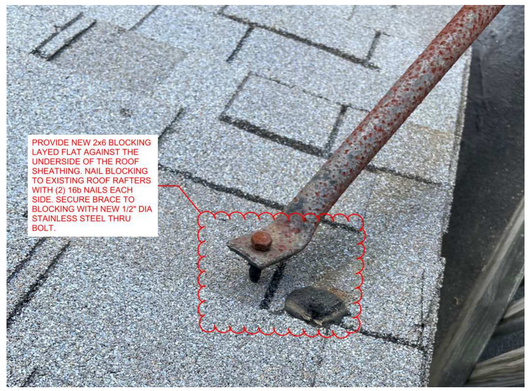
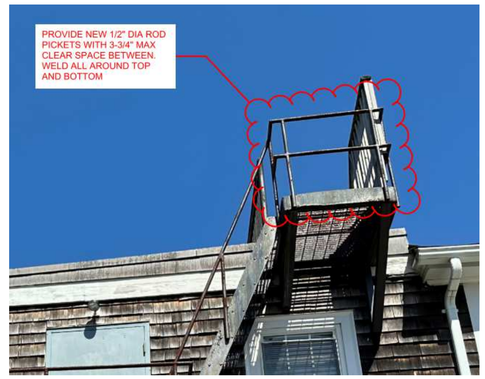


DETAIL A

DETAIL B

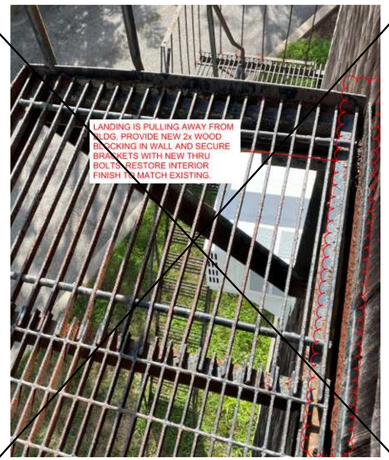


DETAIL C

DETAIL D

DETAIL E

DETAIL F (NOT USED)



DETAIL G (NOT USED)

DETAIL H

DETAIL H1

DETAIL I

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GREEN, NEWMAN HALL, HUMAN RESOURCES BUILDING AND INTKINGSTON, RHODE ISLANDISE FIRE ESCAPE IMPROVEMENTS

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No.	Date	Description
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Drawing Title

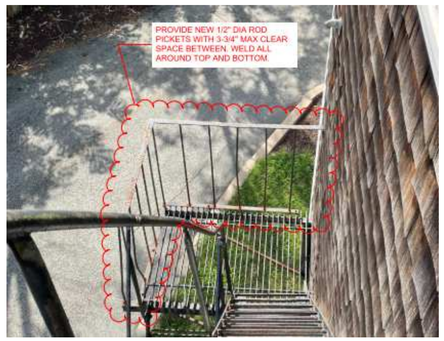
NEWMAN HALL DETAILS 2

Project Manager:	MT	Project No:	URI70IN
Project Architect:	PB	Production Leader:	
Project Designer:		Peer Reviewer:	

Drawing Number

A-32

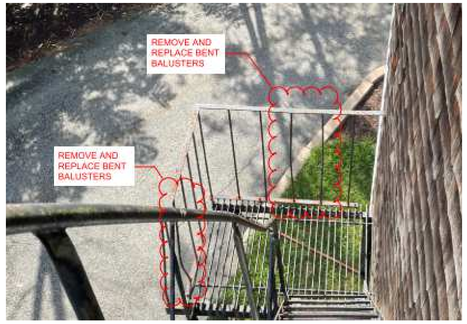
DETAIL I1



DETAIL K1

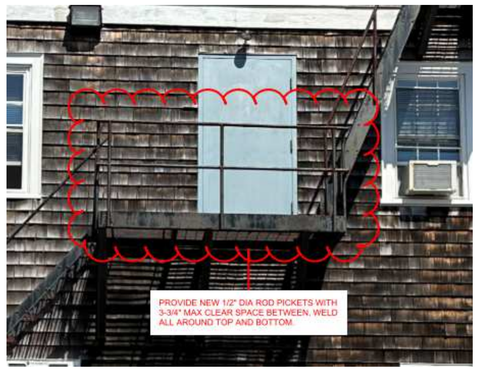
DETAIL J

DETAIL L



DETAIL K

DETAIL M



DETAIL N

DETAIL O

DETAIL P

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Issues / Revisions

No.	Date	Description
1	7-7-2023	FOR CONSTRUCTION

Drawing Title

NEWMAN HALL DETAILS 3

Project Manager:	MT	Project No:	URI70IN
Project Architect:	PB	Production Leader:	
Project Designer:		Peer Reviewer:	

Drawing Number

A-33

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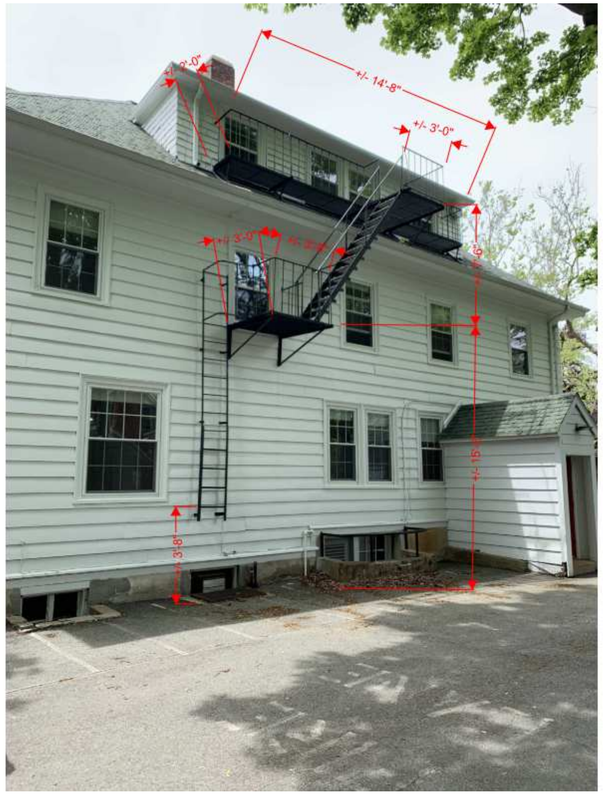

DIMENSIONS

OVERALL NOTES

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Issues / Revisions

No.	Date	Description
1	7-7-2023	FOR CONSTRUCTION

Drawing Title

INT. HOUSE DETAILS 1

Project Manager:	MT	Project No:	URI70IN
Project Architect:	PB	Production Leader:	
Project Designer:		Peer Reviewer:	

Drawing Number

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