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PROJECT NARRATIVE

Renovation and restoration of multifamily buildings at middle street, (building 132-134). The buildings will be rehabilitated and restored in compliance with building and life safety codes.

The scope of work will include repointing the existing bricks, replacing deteriorated roofing, replacing the front entrance (steps and railing), repairing entrance doors, repair of windows and storms, replacement of downspouts and gutters. The work will include repairing the existing wood soffits and restoring brownstone masonry. The scope will also include cleaning existing masonry.



LOCATION OF WORK



132-134 MIDDLE STREET

RENOVATION + RESTORATION

HISTORIC DISTRICT COMMISSION
WORK SESSION 1

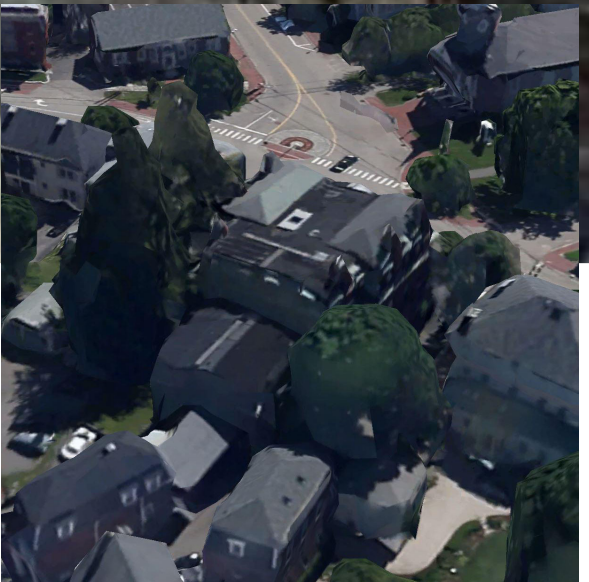


28

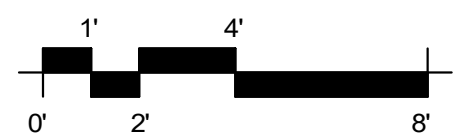
9

8

1 ROOF
1/16" = 1'-0"



2 3D Back View
1 1/2" = 1'-0"



ROOF PLAN
132-134 MIDDLE ST HOUSING

RECOMMENDATIONS	
NOTES	

8	Replace existing asphalt shingles with new synthetic slate shingles to match existing slate shingles.
9	Replace existing EPDM roofing on the deck with new EPDM roofing with new copper edge metal/drip edge, etc.
28	Replace existing slate shingles with new synthetic slate shingles to match existing slate shingles.



FRONT, NORTH
& REAR SIDES

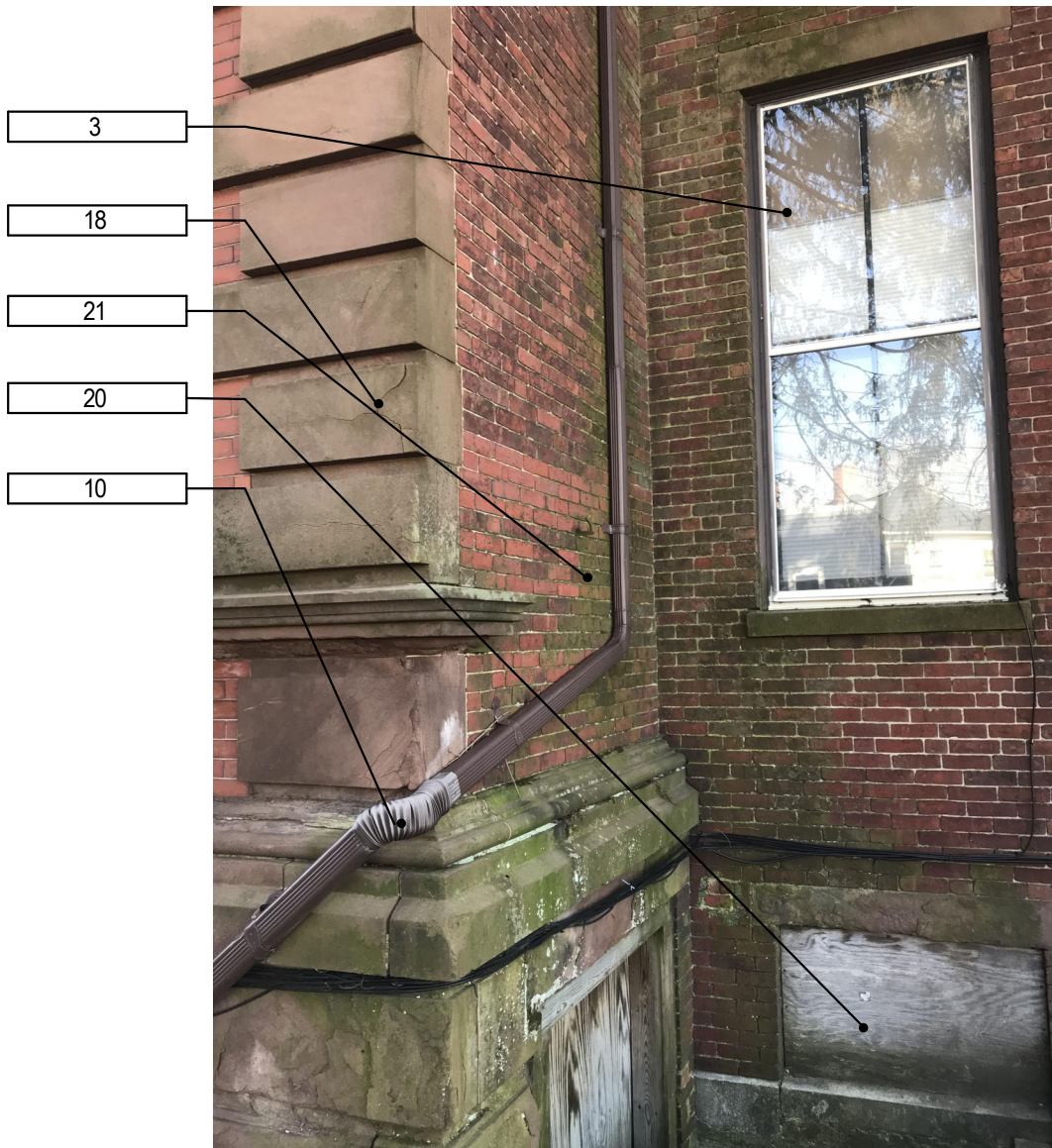


FRONT &
SOUTH SIDES





RECOMMENDATIONS	
	NOTES
3	Repair rotting existing windows and storms.
4	Clean, patch, and paint the front entry door front/back.
5	Replace front treads and risers with colored concrete to match existing brownstone. Existing brownstone sidewalls to be repaired to match. Existing brownstone to be repaired.
10	Replace gutters and downspouts with new copper gutters and downspouts.
11	Replace and install missing railings at front stoop with new wrought iron railings to match existing historic fencing.
18	Repair brownstone, trims, and paints on the exterior.
19	Repaint and repair existing roof over steps.
20	Fill with bricks matching the existing bricks.
21	Clean mold, moss and lichen.
22	Repair and repaint the existing soffit.
23	Repair and repaint existing wooden steps.
24	Repoint the infilled bricks with a mortar color matching the existing to blend with the existing bricks.
27	Repair or replace wood hip trim and plinth detail.
28	Replace existing slate shingles with new synthetic slate shingles to match existing slate shingles.





Option 01

Option 02



RECOMMENDATIONS	
NOTES	
28	Replace existing slate shingles with new synthetic slate shingles to match existing slate shingles.
30	Test patch for brownstone repair.



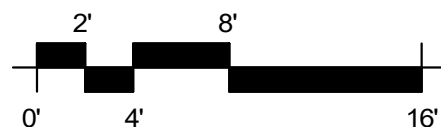
General Note:
All fire escapes to be removed reference attached images



1 **SOUTHWEST ELEVATION Presentation**
1/8" = 1'-0"

RECOMMENDATIONS	
	NOTES

18	Repair brownstone, trims, and paints on the exterior.
21	Clean mold, moss and lichen.
22	Repair and repaint the existing soffit.
26	Copper hip flashing.
27	Repair or replace wood hip trim and plinth detail.
28	Replace existing slate shingles with new synthetic slate shingles to match existing slate shingles.



SOUTHWEST ELEVATION
132-134 MIDDLE ST HOUSING

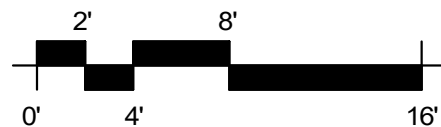
H3.1

05/12/23
PROJECT NO:1020

General Note:
All fire escapes to be removed reference attached images



1 NORTHEAST ELEVATION Presentation
1/8" = 1'-0"



RECOMMENDATIONS	
	NOTES

3	Repair rotting existing windows and storms.
8	Replace existing asphalt shingles with new synthetic slate shingles to match existing slate shingles.
18	Repair brownstone, trims, and paints on the exterior.
22	Repair and repaint the existing soffit..
24	Repoint the infilled bricks with a mortar color matching the existing to blend with the existing bricks.
26	Copper hip flashing.
27	Repair or replace wood hip trim and plinth detail.

NORTHEAST ELEVATION
132-134 MIDDLE ST HOUSING

H3.2

05/12/23
PROJECT NO:1020

General Note:
All fire escapes to be removed reference attached images



1 **SOUTHEAST ELEVATION**
1/8" = 1'-0"



RECOMMENDATIONS	
	NOTES
3	Repair rotting existing windows and storms.
8	Replace existing asphalt shingles with new synthetic slate shingles to match existing slate shingles.
18	Repair brownstone, trims, and paints on the exterior.
22	Repair and repaint the existing soffit.
26	Copper hip flashing.
28	Replace existing slate shingles with new synthetic slate shingles to match existing slate shingles.

SOUTHEAST ELEVATION
132-134 MIDDLE ST HOUSING

H3.3

05/12/23
PROJECT NO: 1020



1 NORTHWEST ELEVATION
1/8" = 1'-0"



RECOMMENDATIONS	
	NOTES

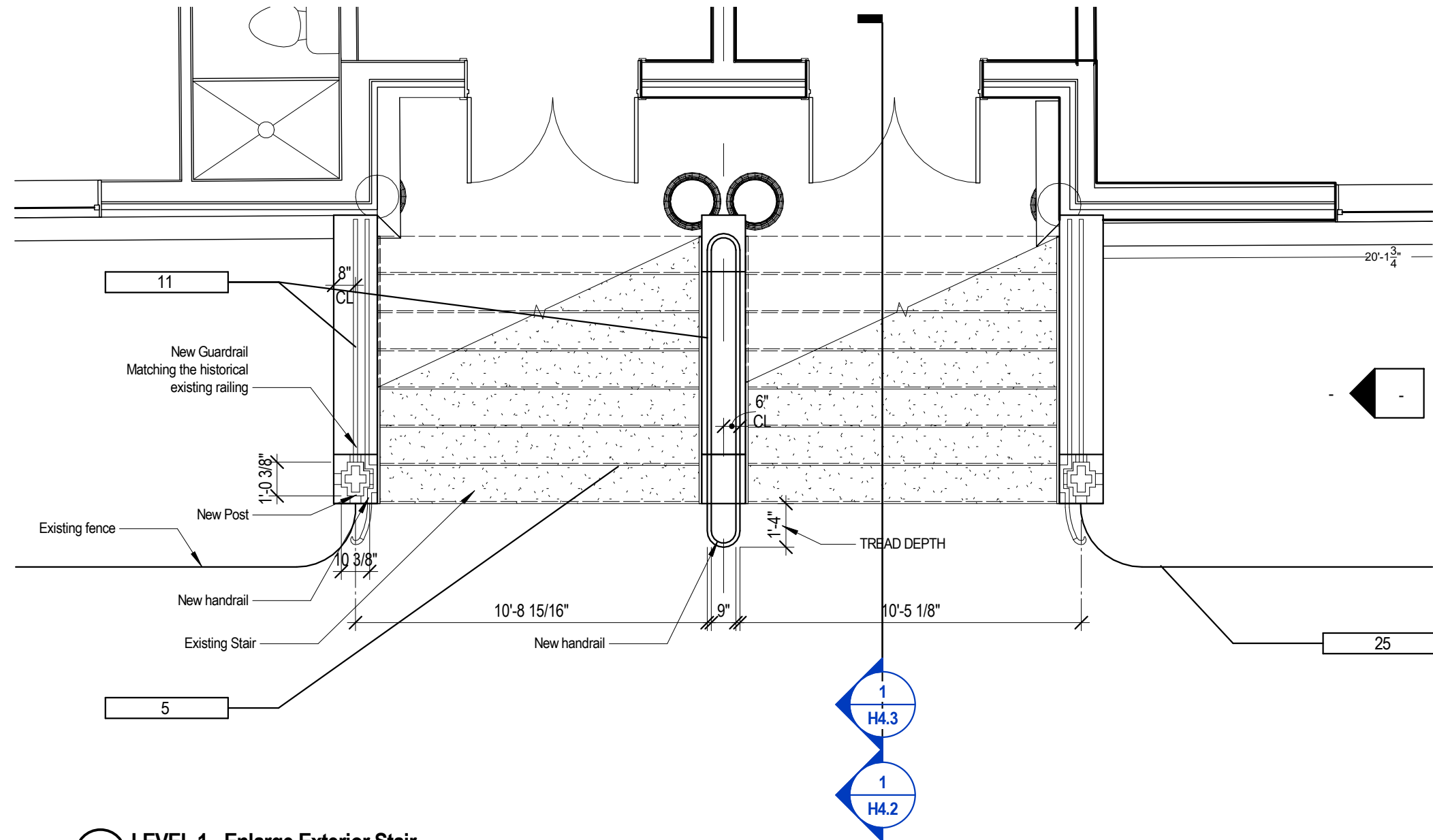
3	Repair rotting existing windows and storms.
4	Clean, patch, and paint the front entry door front/back.
5	Replace front treads and risers with colored concrete to match existing brownstone. Existing brownstone sidewalls to be repaired to match. Existing brownstone to be repaired.
8	Replace existing asphalt shingles with new synthetic slate shingles to match existing slate shingles.
11	Replace and install missing railings at front stoop with new wrought iron railings to match existing historic fencing.
18	Repair brownstone, trims, and paints on the exterior.
22	Repair and repaint the existing soffit.
27	Repair or replace wood hip trim and plinth detail.
28	Replace existing slate shingles with new synthetic slate shingles to match existing slate shingles.

NORTHWEST ELEVATION
132-134 MIDDLE ST HOUSING

RECOMMENDATIONS

NOTES

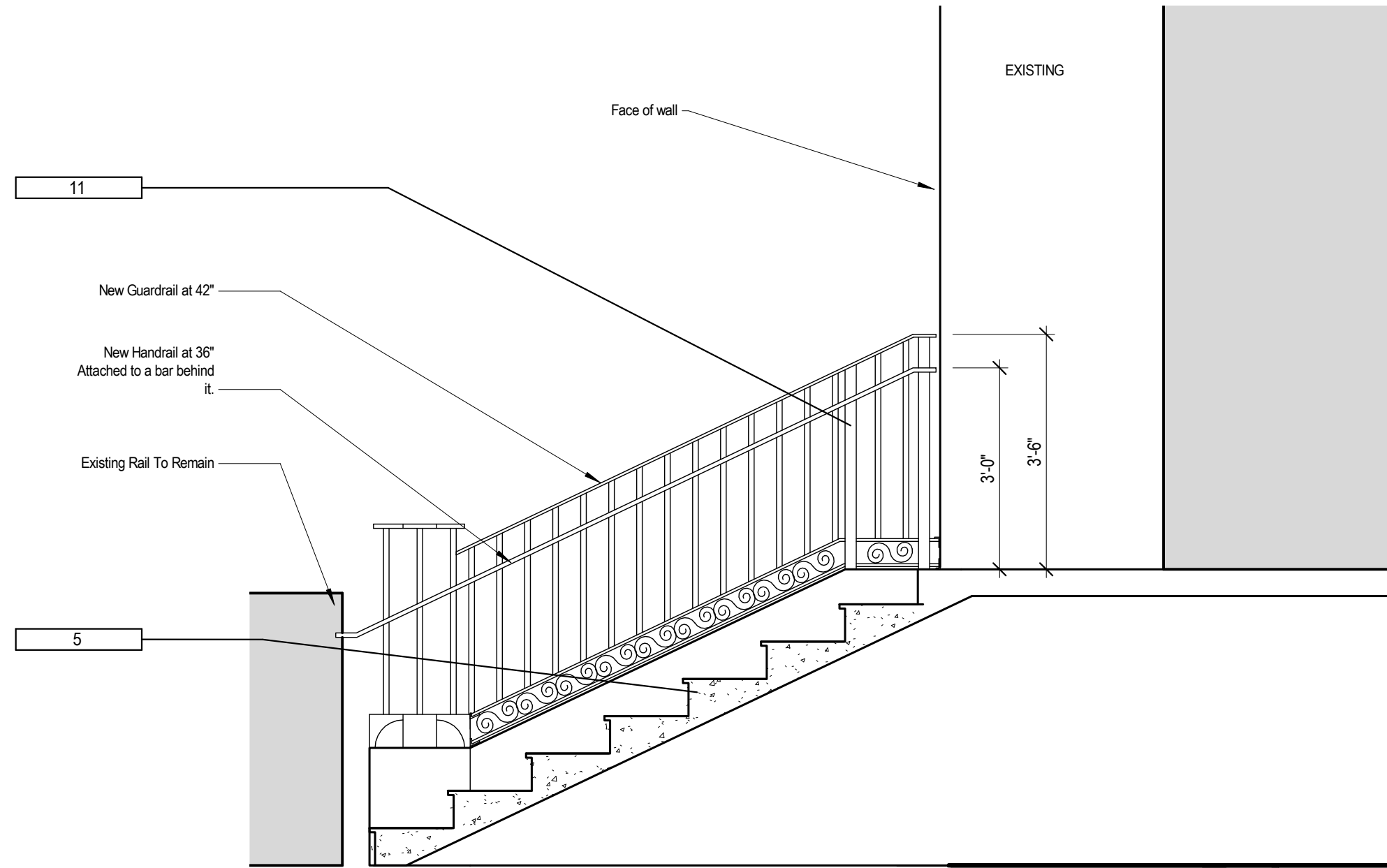
5	Replace front treads and risers with colored concrete to match existing brownstone. Existing brownstone sidewalls to be repaired to match. Existing brownstone to be repaired.
11	Replace and install missing railings at front stoop with new wrought iron railings to match existing historic fencing.
25	Build new fence matching the existing fence.



1 LEVEL 1 - Enlarge Exterior Stair
1/4" = 1'-0"



RECOMMENDATIONS	
NOTES	
5	Replace front treads and risers with colored concrete to match existing brownstone. Existing brownstone sidewalls to be repaired to match. Existing brownstone to be repaired.
11	Replace and install missing railings at front stoop with new wrought iron railings to match existing historic fencing.



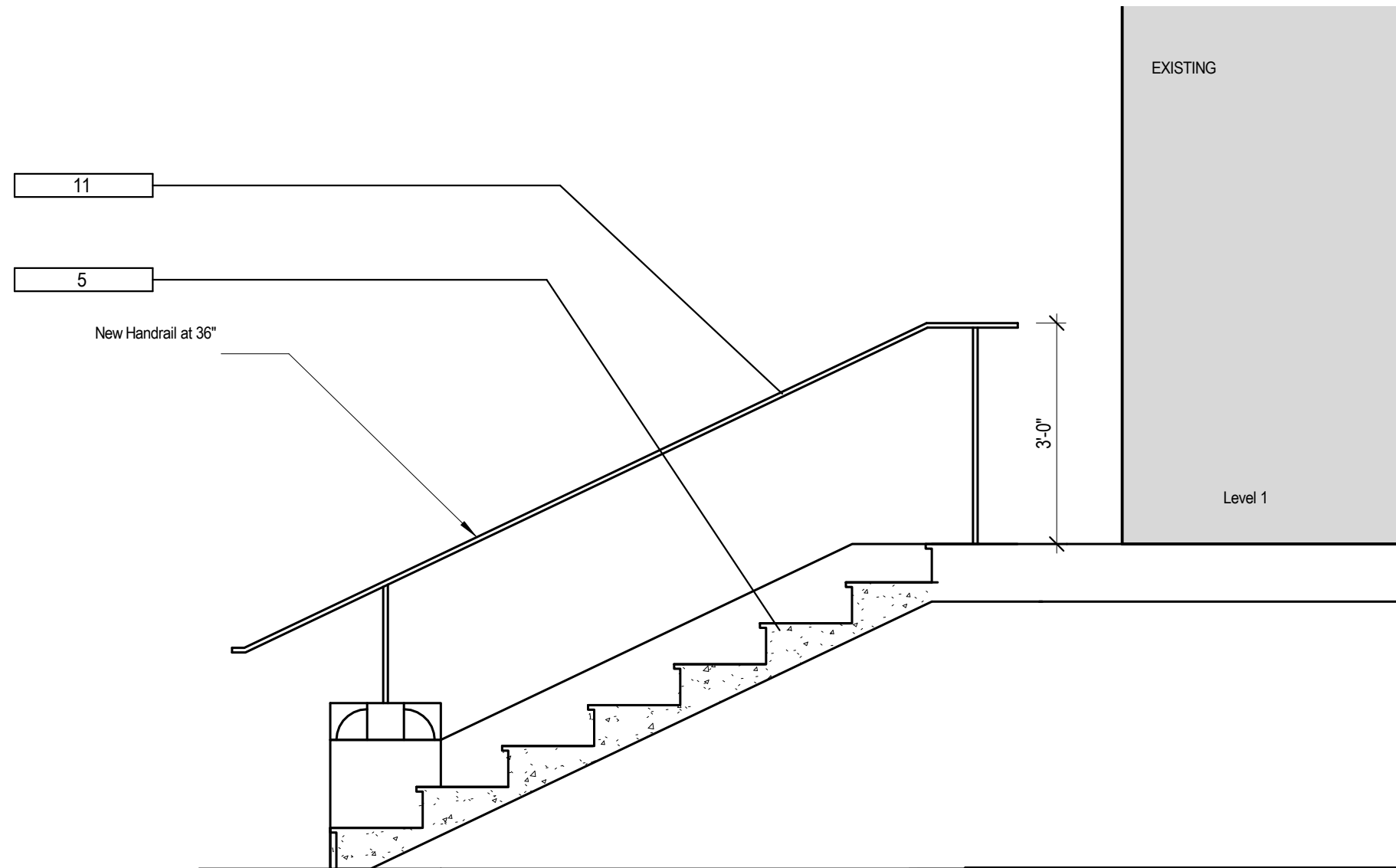
1 Guardrail+Handrail
1/2" = 1'-0"



RECOMMENDATIONS

NOTES

5	Replace front treads and risers with colored concrete to match existing brownstone. Existing brownstone sidewalls to be repaired to match. Existing brownstone to be repaired.
11	Replace and install missing railings at front stoop with new wrought iron railings to match existing historic fencing.



1 Middle Handrail
1/2" = 1'-0"





Option 01
Ecostar Majestic, beaver tail.
Color: Gray and red



All the exterior railing materials to be metal matching the look and the color of the existing railing



Option 02
Ecostar Majestic, beaver tail
Color: Gray



Gutters



Downspouts



Copper flashing

Existing brownstone

Proposed custom colored precast concrete to match existing brownstone



Custom colored precast concrete



Sustainable Roofing



Designer Series Slate

Beaver Tail | Beveled Edge | Chisel Point



Environmentally friendly synthetic slate roofing tiles proudly made in the USA

Pioneers of sustainable roofing since 1993

Designer Series Slate



Many unique shapes and designs have been seen in slate roofing throughout history. Designer Series Slate tiles allow building owners the opportunity to continue that expression of individuality. EcoStar LLC, the leading manufacturer of premium synthetic steep-slope roofing products, offers three classic shapes as part of the Designer Series Slate collection. Made with the same formulas and offering the same benefits as Majestic Slate and Empire Slate, Designer Series Slate offers unlimited creative possibilities.



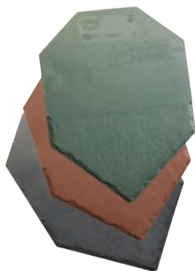
Beaver Tail

The rounded look makes this classic slate tile perfect for designing unique roof patterns or creating a true carriage house appeal.

Colors: Federal Gray & Stone Red

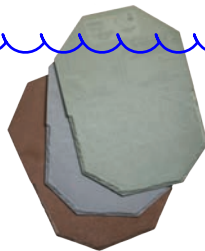
Beveled Edge

The look of scalloped edges in a hexagonal pattern makes beveled edge tiles a classic. This rare style can be intermixed with traditional slate tiles or used separately for historical applications.



Chisel Point

Chisel Point tiles form a beautiful diamond pattern on the roof, reminiscent of European roof designs.



Available Colors:

Majestic Slate: 11 standard colors

Empire Slate: 14 standard colors and unlimited custom colors

Note: Sample pieces, photographs or color samples may not accurately represent the true color level or variations of color blends that will appear on the roof. Before installation, ten tiles or so should be laid out and reviewed for conformity to desired color level. If color levels are unsatisfactory, advise your dealer before proceeding with installation. Colors and specifications are subject to change without notice. EcoStar is not liable for color variations or shading. Tiles must be randomly blended for best results. Limited warranties carry terms and conditions.

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Advantages

- Weighs significantly less than natural slate
- Minimum 4" of headlap protection
- Easy application keeps installation costs down

Architectural Flexibility

- The various styles of Designer Series Slate can be blended together with Majestic Slate or Empire Slate traditional tiles to create unique designs
- Special shapes replicate those found in historical, carriage house and European architecture
- Available in a wide array of standard and custom colors
- Available in three different shapes: Beaver Tail, Beveled Edge and Chisel Point
- Natural appearance of real slate roofing

Strength & Durability

- Provides superior durability and protection from extreme weather conditions that include wind, hail and wind-driven rain
- Significant life cycle savings

Warranty Options

- 50-Year Limited Material Warranty available
- 50-Year Gold Star Labor & Material Warranty available
- 110 mph Wind Warranty available



Environmental Sustainability

- Manufactured with up to 80% post-industrial recycled materials

Technical Information

- UL listed Class C/A fire resistance (UL 790)
- UL listed wind resistance to 110 mph (D3161)
- UL Class 4 impact resistance (UL 2218)
- Prolonged UV Exposure (ASTM G155)
- UL Evaluation Reports, AC07-ULER 18920-01 and 18920-02
- May contribute to LEED® points
- Manufactured in strict adherence to ISO 9001:2015 Quality Management



42 Edgewood Drive | Holland, NY 14080
800.211.7170 | www.ecostarllc.com

Innovative Design, Classic Slate Look

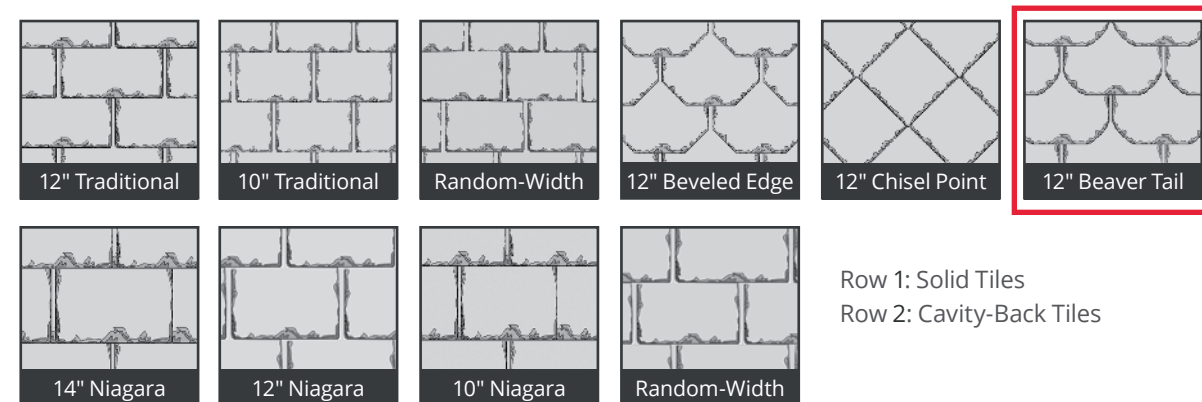
EcoStar Slate

Post-industrial recycled compounds are utilized to create a lightweight and environmentally responsible alternative to natural slate. An EcoStar roof offers beautiful, yet proven protection for your most prized investment. It is an inspiration to homeowners looking for affordable style and uncompromised performance.

Significant advantages:

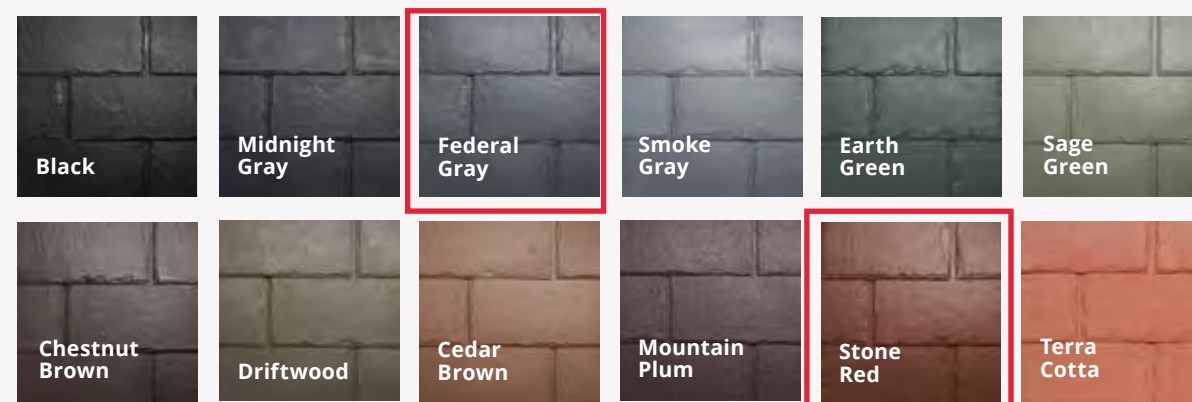
- Weighs significantly less than natural slate
- Protects against extreme weather conditions
- Reduces need for maintenance and repair
- Lessens environmental impact
- Exceeds industry performance standards
- 50-year warranty

Profiles

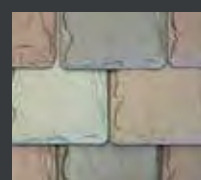


Row 1: Solid Tiles
Row 2: Cavity-Back Tiles

Majestic Standard Colors



Color samples may not accurately represent the true color level or variations of color blends that will appear on the roof. Colors and specifications subject to change without notice. EcoStar is not liable for color variations or shading.



Looking for a more unique look?
Achieve a custom look by combining multiple profiles and/or colors. See page 20 to learn more.

All EcoStar products are factory pre-blended for both color and width.

The right tile for any property

Whether you are looking to elevate the look of a residential property, meet the performance needs of a commercial property, or preserve the look of a historical property, EcoStar offers the right tile.

Majestic Slate

EcoStar's original eco-friendly tile, made of 80% recycled materials, meeting the needs of most residential applications.

Empire Slate

The same classic slate look as Majestic Slate with additional energy-saving benefits, and design features that meet the needs of commercial and historical properties.

Niagara Slate

Niagara Slate is available in the Majestic and Empire formulas and offers an increased tile size and thickness for enhanced shadow lines and increased aesthetic appeal.

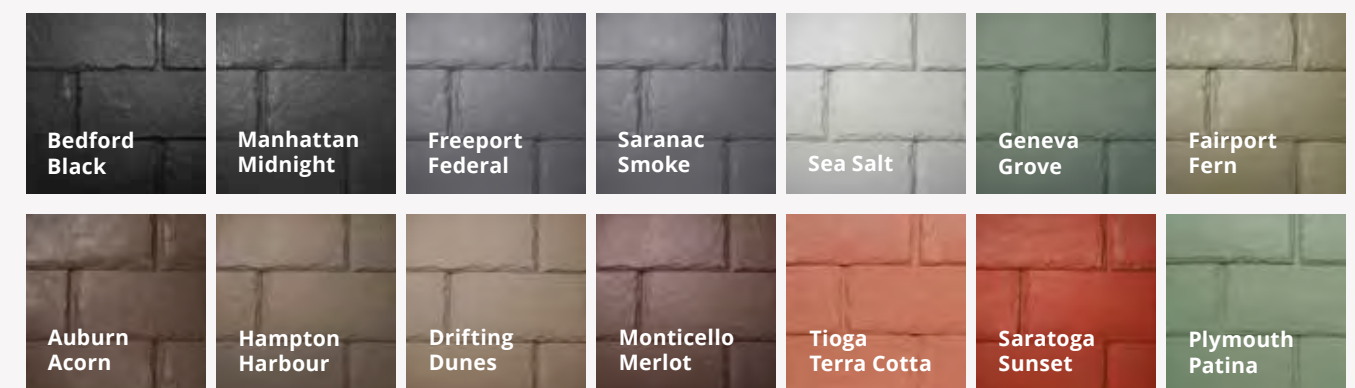
Our slates replicate real slate in so many ways - the beauty and durability, the slight sheen after installation, and the gentle patina of the surface over time.

Tile Features	Majestic Slate		Empire Slate	
	Traditional	Niagara	Traditional	Niagara
Recycled Material	80%	80%	25%	25%
Tile Widths	12", 10", 9", 6"	14", 12", 10"	12", 10", 9", 6"	14", 12", 10"
Profile	Solid	Cavity-back	Solid	Cavity-back
Tile Thickness	1/4"	5/8"	1/4"	5/8"
Reveal	7", 6"	10", 9"	8", 7", 6"	10", 9"
Weight per Square (at maximum reveal)	275 lbs. (12" tile)	250 lbs. (14" tile)	308 lbs. (12" tile)	290 lbs. (14" tile)
Fire Rating	Class C	Class C	Class C/A	Class C/A
Impact Rating	Class 4	Class 4	Class 4	Class 4
Miami-Dade	No	No	Yes	Yes
Standard Colors	12	12	14	14
Cool Roof Colors	No	No	11	11
Custom/Marbled Colors	No	No	Yes	Yes
Designer Tiles	Yes	No	Yes	No

Cool Colors

Enjoy additional energy savings from our line of Cool Colors, available in all Empire colors. (excludes Bedford Black, Tioga Terra Cotta and Plymouth Patina)

Empire Standard & Cool Colors



"EcoStar synthetic slate was just what we were looking for. We were able to select the size, shape, and blend of colors required to give our home the look of a well-preserved nineteenth-century structure."

- Jay Panzer, Homeowner

EcoStar representatives are available for information about energy savings and homeowners insurance discounts. Visit our website to find your local representative.

Project Submittal Package:

132-134 Middle Street

Portsmouth, NH

4-18-23

MP Masonry, Inc.
60 John L Dietsch BLVD
North Attleboro Ma 02760
PH: 508-384-2800

General Contractor:
Torrington Properties

Mortar- Brick

Spec mix Types N

Cleaner

Diedrich 101 Restoration cleaner

Brownstone patch

Matrix

Precast

Preferred Precast

MORTAR

SPEC MIX

Product Certification Letter

September 5, 2019

Product Description: 80 lb. SPEC MIX® Portland Lime & Sand Mortar / Type N
3000 lb. Mix 204 N (PLN)

Item Number: 19008
SM19008

Manufacturing Plant: QUIKRETE® - Boston

To: Whom It May Concern


This letter certifies that SPEC MIX Portland Lime & Sand Mortar / Type N as referenced above meets the requirements of ASTM C 1714 and the *property* specifications for an ASTM C 270, *Standard Specification for Mortar for Unit Masonry, Type N Mortar*. Please reference the Material Test Report for Item Number SM19008 for test results of the design.

The raw materials used in this product formulation meeting the standard specifications include: Type I/II Portland Cement meeting ASTM C 150, *Standard Specification for Portland Cement*, Hydrated Lime Type S meeting ASTM C 207, *Standard Specification for Hydrated Lime for Masonry Purposes*, and Mason Sand meeting ASTM C 144, *Standard Specification for Aggregate for Masonry Mortar*.

It is available as a standard gray, as well as in a variety of standard and custom colors. For custom colors, or versions with integral water repellent, the finished product item number will vary from the base design item number above depending upon the integral water repellent and / or specific pigment. These versions will also meet the specifications described above.

Mortar property characteristics including compressive strength are specified according to ASTM C 270 with laboratory testing. ASTM C 270 (property specification) is not for use to specify minimum compressive strengths to be achieved by field mixed mortars. Field mixed mortar may be tested according to ASTM C 780 to evaluate mortar properties such as mortar water content or consistency. As defined in ASTM C 1586, compressive strength values determined through ASTM C 780 in the field are **not expected nor required** to achieve the compressive strengths of laboratory tested ASTM C 270 specification mortars.

We are pleased to be of service to you. If you have any questions, please let us know.



Wendy Henry
Quality Assurance Manager

WMH

THE QUIKRETE® COMPANIES, LLC
Technical and Engineering Center
500 Marathon Parkway
Lawrenceville, GA 30046
770.216.9580 • www.quikrete.com
651.994.7120 • www.specmix.com

MORTAR

LANXESS Corporation

LANXESS
Energizing Chemistry

1. Product Name
Bayferrox® Iron Oxide Pigments

2. Manufacturer
LANXESS Corporation
111 RIDC Park West Drive
Pittsburgh, PA 15275-1112
(800) 526-9377
(412) 809-2212
Fax: (412) 809-3599
E-mail: paul.croushore@lanxess.com
www.Bayferrox.com

3. Product Description

BASIC USE

Bayferrox® synthetic iron oxide pigments are one of the most popular color pigments worldwide for coloring concrete. Bayferrox is suitable for all types of concrete products, including ready-mixed and architectural concrete, concrete blocks, bricks and paving stones, concrete roofing tiles, segmental retaining wall units, architectural precast products, colored mortar cement, stucco and grout. New applications are always being developed. Consult manufacturer.

COMPOSITION & MATERIALS

The most widely used pigments for coloring concrete are synthetic iron oxides. Bayferrox pigments meet stringent color and quality specification parameters set forth by ASTM C979. To help meet these standards, the LANXESS production facilities are ISO 9000-2000 certified.

SIZES

Bayferrox pigments are available in 50 lb (23 kg) bags, bulk bags, and in custom sized packaging.

FINISHES

Final color and appearance are functions of a number of variables, including amount of pigment in the mix, water-to-cement ratio, other mix components such as aggregates and admixtures, finishing technique and curing conditions.

COLORS

At low pigment level concentrations, these pigments can turn gray concrete into a wide range of earth tone colors which show virtually no fading after many years of weather exposure. A full range of high quality color pigments, including yellows, reds, blacks and browns, is produced for a variety of applications. These pigments are available in more than 24 primary colors and hundreds of blends. The shades indicated on the manufacturer's color cards have been chosen for their popularity. Numerous other shades are available.

LIMITATIONS

Consult manufacturer's technical literature for recommended and excluded uses.

4. Technical Data

APPLICABLE STANDARDS

ASTM International - ASTM C979 Standard Specification for Pigments for Integrally Colored Concrete

International Organization for Standardization (ISO) - ISO 9000-2000 Quality Management and Quality Assurance Standards, Parts 1 - 3

APPROVALS

The LANXESS manufacturing plants for Bayferrox are ISO 9000-2000 series certified by the International Organization for Standardization (ISO).

ENVIRONMENTAL CONSIDERATIONS

The LANXESS manufacturing process converts scrap iron into premium iron oxides; minimal salts, no sulfur dioxide or crystalline silica is produced. Use of these products can produce nominal amounts of dust. Use appropriate protective clothing and respiratory protection. Material Safety Data Sheets (MSDS) are available upon request.

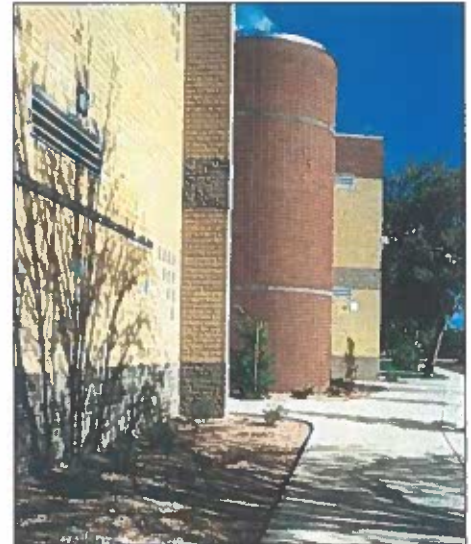
PHYSICAL/CHEMICAL PROPERTIES

These pigments are stable under exposure to sunlight and ultraviolet (UV) radiation, and are alkali and weather resistant.

5. Installation

PREPARATORY WORK

Handle and store product according to LANXESS recommendations. Keep materials dry and in their original packaging until ready for use. Once the specific mix design and sequencing of raw materials have been established, it should not be altered. Consistency of



Bayferrox® Iron Oxide Pigments impart color in concrete products.

raw materials in all phases of manufacturing is the most important element in making quality colored concrete.

METHODS

Bayferrox pigments should be added to the concrete mix, not sprinkled or dusted onto the surface of the concrete. The amount of color to be used ranges from 1/2 lb (0.23 kg) up to 7 lb (3 kg) per 94 lb (43 kg) bag of cement. ASTM limits the maximum amount of color per batch to 10% of the cementitious material in the mix. For colored ready-mixed concrete, add carefully weighed aggregates, then add 1/2 to 2/3 of total batch water. Add exact amount of pigment, and mix for 1 minute. Add accurate amount of cement, approved admixtures and remaining water. Mix for a minimum of 5 minutes at high speed. Complete use recommendations for various applications are available from LANXESS.

PRECAUTIONS

Pigmentation levels greater than 10% of cementitious material content, per ASTM standard, can reduce concrete strength.

Health and safety recommendations must be observed when handling Bayferrox synthetic iron oxide pigments. Before working with any product mentioned in the Bayferrox product information, user must read and become familiar with hazards, proper use and handling recommendations. Consult LANXESS for more information.

MORTAR

SM100 - GRAY

SM200 - WHITE

SM250 - ANTIQUE WHITE

SM270 - TANGLEWOOD

SM290 - NANTUCKET

SM300 - LIGHT BUFF

SM330 - BURLYWOOD

SM350 - SUEDE

SM400 - MEDIUM BUFF

SM500 - DARK BUFF

SM550 - MEDIUM BROWN

SM570 - TUMBLEWEED

SM580 - DARK BROWN

SM610 - AMBER

SM620 - TANGERINE

SM650 - DUSTY ROSE

SM660 - SALMON

SM670 - BURGUNDY

SM680 - ROSEWOOD

SM800 - FIRESTONE

SM700 - RED

SM730 - BRIARWOOD

SM750 - SILVERSTONE

SM770 - SABLE

Color to match
existing

310 Wayto Road | Schenectady, NY 12303 ● TEL: 800-283-3888 | FAX: 518-357-9636
EMAIL: moreinfo@sandellmfg.com | www.diedrichtechnologies.com

101 MASONRY RESTORER

1. PRODUCT DATA

Date of Preparation: March 1, 2015
Product Name: 101 Masonry Restorer
Producer: Diedrich Technologies, A Hohmann & Barnard Company, 310 Wayto Road, Schenectady, NY 12303
Company Contact: Ken Eglin
Telephone: 800-283-3888 **Fax:** 518-357-9636
Email: KenE@h-b.com **Web:** www.diedrichtechnologies.com

This product is manufactured for Commercial/Industrial use. Not recommended for: Household use.

2. PRODUCT DESCRIPTION

DIEDRICH 101 Masonry Restorer combines acids and a biodegradable detergent into a powerful concentrated cleaner for masonry surfaces. This formula penetrates, dissolves, and suspends grime for easy removal by flushing the treated areas with a pressure washer. Removes most airborne dirt, atmospheric carbon, rust, mildew, algae, fungus, exhaust residue, industrial pollutants, weathering discoloration, fire and smoke damage, and most other stains from rough and smooth surfaces of brick, sandstone, field stone, stucco, swimming pools, clay tiles, some limestones (*do not use on Indiana Limestone as it will cause oxidation rust burns; use 707X or 808X Limestone Cleaners*), asbestos and slate shingles, metal and wood. The 101 Masonry Restorer is applied by low pressure spray, roller, or soft fiber brush. Diedrich 101 Masonry Restorer offers a sensible alternative to damaging sandblasting with these advantages:

- Retains the original outer masonry "skin" for natural color and appearance.
- Keeps mortar joints intact and structurally sound, thus avoiding costly and unnecessary tuckpointing.
- Preserves delicate architectural carvings and delicate moldings.
- Water-soluble & biodegradable formula and creates no ecological problems of sand nuisance and dust pollution.

Limitations: Products ability to clean is limited where walls, in a bad state of repair, are deeply stained by water penetration through parapets, copings, cornices, belt courses, sills and missing joints. On granite, terra-cotta, glazed tile and face brick, use DIEDRICH 101G. Do not use

DIEDRICH 101 on marble surfaces, use 910 or 910 PM. 101 is not recommended for cleaning concrete surfaces, use 900X, 960 or 101G.

3. TECHNICAL DATA

Physical State: Liquid.
Color: Clear aqueous light amber
Specific Gravity: 1.09
pH: <1.0 (1:10 dilution - 5.3)

Coverage: Coverage will vary according to the porosity of the masonry and the amount of accumulated dirt. As a rule of thumb, however, 1 gallon of diluted (1:1) 101 will clean up to 200 sq. ft. of surface. Increased coverage with dilution.

4. PREPARATIONS

Personnel: All workers must be protected by rubber or polyethylene complete body coverage suits, boots, gloves, face shield, splash goggles, and protective head gear. Avoid contact with eyes and skin.

Adjacent Areas: Protect all glass, vegetation, electrical, anodized aluminum, painted surfaces, asphalt roofing, cars and other adjacent items, buildings and occupants with proper precautions, plastic coverings, and by soaking with water. Avoid drift as it may injure passersby or damage vehicles. Divert traffic.

KEEP OUT OF REACH OF CHILDREN AND ANIMALS.

Safety lines and suspended scaffolding must be equipped with steel or synthetic fiber ropes. **THIS PRODUCT WILL ETCH GLASS AND ALUMINUM. PROTECTION WITH PLASTIC SHEETS IS IMPERATIVE.**

Test Procedures: A test patch **MUST** be cleaned prior to full scale cleaning operations. The test patch is necessary to determine compatibility, dilution rates, and required end results. **Individual surface types must be tested.** Inspection of the test areas should occur after the surface has thoroughly dried. The test patch should be available for inspection and approval, then remain as the standard for the project.

310 Wayto Road | Schenectady, NY 12303 ● TEL: 800-283-3888 | FAX: 518-357-9636
EMAIL: moreinfo@sandellmfg.com | www.diedrichtechnologies.com

5. APPLICATION

101 MASONRY RESTORER can be diluted one part cleaner to up to 10 parts water, depending upon the type of masonry, the degree of accumulated dirt and the method of application and rinse to be used. Best time to rise is within 2 to 5 minutes. In most cases, pre-wet wall to avoid streaking or bleaching of masonry surface. The most effective method of application is with an ACID-RESISTANT AIRLESS LOW-PRESSURE APPLICATOR PUMP - THE **DIEDRICH ACID EXPRESS**, or with a soft densely fibered synthetic acid brush, followed by a pressure washer equipped to produce 500 PSI. Wash until sudsing ceases. Working from top to bottom or bottom to top are all acceptable techniques. To avoid streaking on hard face brick keep lower areas wet and rinsed OR apply and wash from bottom working up

and then a final rinse coming down. When applying outside occupied building, all windows, air intakes and exterior air-conditioning vents should be covered or shut down during and for 30 minutes following application. Hot water will improve cleaning and also extends the season.

6. AVAILABILITY AND COST:

Available through a network of 1500 dealers and over 2000 contractors located throughout the United States, Canada, Mexico and Europe. Cost will fluctuate according to the type of masonry to be cleaned, freight and labor costs and other variables.

REMOVE SELF CLEANING PAINT AND OXIDIZED ALUMINUM SIDING CHALK RUN-DOWN FROM MASONRY SURFACES

When certain types of self-cleaning paints weather, their surfaces powder off and wash down the wall during rains and streaks the masonry. One of the most unsightly and difficult to remove stains is that of chalking paint run-down. White residue particles lodge deeply in the pores of the masonry and are extremely difficult to remove. The same problem can occur when aluminum siding oxidizes. These types of chalking will not wear off but will worsen. Paint strippers or removers will not remove this streaking even though it is caused by the paint. Muriatic acid likewise will not remove or have any effect on this. Muriatic acid mixtures are dangerous and could damage, etch, or bleach the brick and mortar. The only product on the market that safely and effectively removes this chalky run-down are **Diedrich's 101 Masonry Restorer, 101G, or Envirestore 100**.

Diedrich's 101 Masonry Restorer in a 5 to 1 dilution was applied to this wall and simply washed-off with a high pressure water spray. *Note the like-new condition of the results.* To retain this appearance and prevent future streaking we suggest our Diedrich 303-S Siloxseal or Omegaseal 333 series of water-repellents.



BEFORE



AFTER CLEANING WITH 101

Masonry Restoration Standard Colors

Matrix
Matrix TR
Injection Grout
RePoint

K1
Light Limestone



Formerly
Matrix M1 and Mimic #1

K2
Medium Limestone



Formerly
Matrix M2 and Mimic #2

K3
Dark Limestone



Formerly
Matrix M3 and Mimic #3

K4
Sandstone



Formerly
Matrix M4 and Mimic #4

K5
Dark Sandstone



Formerly
Matrix M5 and Mimic #5

K6
Terracotta



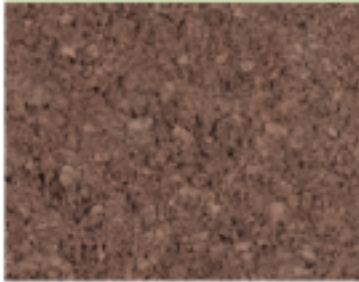
Formerly
Matrix M6 and Mimic #7

K7
Light Brownstone



Formerly Matrix M7
No equivalent for Mimic

K8
Brownstone with Mica



Formerly
Matrix M8 and Mimic #13

K9
Dark Brownstone



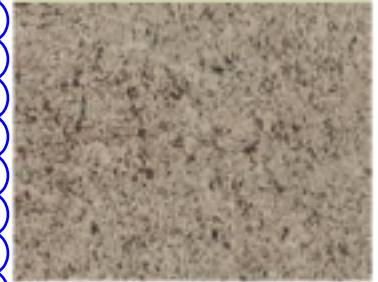
Formerly
Matrix M9 and Mimic #14

K10
Union Brownstone



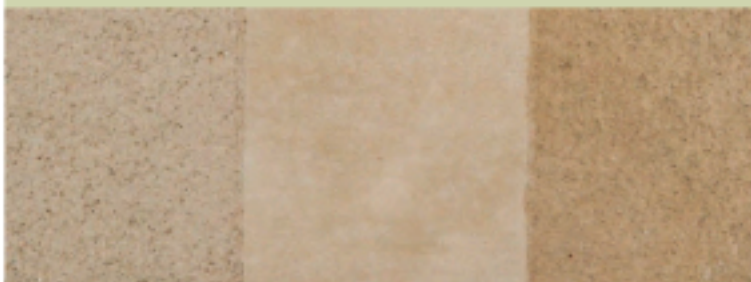
Formerly Mimic #15
No equivalent for Matrix

K11
Precast



Formerly Mimic #6
No equivalent for Matrix

Difference in Color



Created by – shaved finish (left)
smooth finish (center) sandblast finish (right).

Each of the listed products are available in colors K1 – K11.

This color card is to provide an approximation of the color.

Always request a sample of the product in desired color for accurate matching.

The colors shown are standard for Matrix, Matrix TR (formerly Mimic TR), Injection Grout and RePoint.

Color matching is available for each of these products with the exception of Injection Grout.

Refer to the current data bulletin for application and finishing detail for each product.

For custom color matching contact Conproco customer support at 800.258.3500.

BROWNSTONE REPAIR





ABOUT US

PRODUCTS

SUSTAINABILITY

PROJECTS

CONTACT US

PRECAST ARCHITECTURAL CONCRETE
034500

1.5a SUBMITTALS

WHITE CEMENT PRODUCT DATA

Technical Data Sheet

ASTM C-150



PRODUCT NAME:
White Portland Cement:
Federal
White Type I
ASTM Designation C-150

SDS

MANUFACTURER:
Federal White Cement
P.O. Box 548
Woodstock, Ontario
Canada
N4S 7Y5

Phone: 800-265-1806
Phone: 519-485-5410
Fax: 519-485-5892

DESCRIPTION:

Federal White Type I Cement is a true portland cement manufactured with selected raw materials to insure negligible amounts of iron and manganese oxides so as not to produce the gray color of normal portland cement.

INSTALLATION:

Architect should approve the color and surface texture of samples submitted by the contractor or precaster. Contact Federal White Cement for further information or assistance.

MAINTENANCE:

Concrete and other products manufactured with Federal White Cement should require no additional maintenance if designed and constructed following proper and accepted procedures.

TECHNICAL DATA:

Federal White Portland Cement is manufactured to conform to all current requirements of ASTM Designation C-150.

See table for physical properties.

BASIC USE:

Federal White Cement can be used for all types of architectural or structural concrete construction where a whiter or brighter color may be needed for aesthetic or safety reasons. Such application as pre-cast panels and systems, cast-in-place, masonry units, tilt-up panel systems, roofing tiles, terrazzo floors, highway median barriers, tile grout, swimming pools, stucco, colored masonry products, cement paints and coatings and ornamental precast concrete items lend themselves to using Federal White Cement. Federal White Cement may also be used to satisfy low alkali requirements.

WARRANTY:

Federal White Type I Portland Cement complies with the current ASTM C-150. Federal White Cement makes no guarantee or warranty, expressed or implied, including, without limitation, warranties of fitness or merchantability with respect to this product.

TECHNICAL SERVICES:

Technical service, consultation, and additional product information are available by contacting Federal White Cement.

PHYSICAL PROPERTY	FEDERAL WHITE Typical Type I	ASTM C - 150 Specification Type I
Fineness:		
Specific Surface (sq. m / kg)	400	280 minimum
Setting Time - Vicat Minutes	120	
not less than		45
not more than		375
Air Content %	8	12 maximum
Compressive Strength, psi(MPa)		
1 day	2000 (13.9)	--
3 day	3900 (26.9)	1740 (12.0) minimum
7 day	4800 (33.1)	2760 (19.0) minimum
28 day	6500 (44.8)	--

RECEIVED
6/30/2021

PREFERRED PRECAST

2 Titus Street, Cumberland, RI 02864

Phone: (401) 475-5560

E-Mail: Preferredprecast@gmail.com

PRECAST

MIX DESIGN FOR ARCHITECTURAL PRECAST CONCRETE (034500)

PER 6.25 CUBIC FEET

MATERIALS	QTY	DESCRIPTION	WEIGHT	UNIT
WHITE CEMENT:	2	92.6 lb. Bags of Cement	185.2 lbs.	
MAX ALLOW H2O FOR WHITE CEMENT:	8.89	Gallons of Potable Water	74.08 lbs.	
IRON CLAD CEMENT:	2	94lb. Bags of Cement	188 lbs.	
MAX ALLOW H2O FOR GRAY CEMENT:	9.02	Gallons of Potable Water	75.2 lbs.	
SAND:	1	Mason Sand	232 lbs.	
STONE:	1	3/8" Pea Stone	290.4 lbs.	
WATER/CEMENT RATIO:	0.4	MAX	SEE ABOVE	
AIR ENTRAINING ADMIX:	3.00	FL. OZ. PER 100 LBS OF CEMENT	5.64 Oz.	
WATER REDUCER ADMIX:	5 to 7	% MAX	7.52 Oz.	
COLOR PIGMENT:	1.8	% OR LESS THAN CEMENT WEIGHT	TBD	

Mix Design based upon minimum compressive strength of 6,500 PSI at 28 Days

- 1.) Architectural Precast Concrete manufactured for this project complies with ASTM C1364
- 2.) Slight color variations are expected due to naturally miss-colored products (i.e. Sand & Stone).
- 3.) Aggregate supplied for this project complies with ASTM C33
- 4.) Cement supplied for this project complies with ASTM C150
- 5.) Air entrainment admixtures supplied for the above mentioned project comply with ASTM C260/C260M.
- 6.) H2O reducer/strength enhancer meets ASTM C494/C494M & contains no more than 0.1% of chloride ions.
- 7.) All Reinforcing Bars supplied for this project comply with ASTM A615, Grade 60
- 8.) Calcium Nitrate Corrosion Inhibitor at minimum dosage rate of 2 Gal./Cubic Yard

**PRECAST ARCHITECTURAL CONCRETE
034500
1.5b SUBMITTALS
MIX DESIGN**

PRECAST

* Any Color Selected marked with (*) will have an up-charge



ATTENTION:

Colors in photo may vary when compared to a physical sample
Please request a 12x12 sample to best depict the true color & texture of our product