- Welcome and Introductions
- Meeting Purpose
- Process Update
- Design Update
- Next Steps and Timeline
- Open Discussion and Comments
**Process Update**

**STEP 1**
**PROJECT INITIATION**
- Develop purpose & need
- Public scoping

**STEP 2**
**DATA COLLECTION**
- Analysis of existing conditions
- Identify needed studies
- Identify historic properties

**STEP 3**
**ALTERNATIVES/ANALYSIS**
- Develop and analyze a range of alternatives
- Assess effects

**STEP 4**
**PRODUCE DOCUMENT**
- Release EA to public, including proposed historic preservation and environmental mitigation measures
- 30-day public comment period

**STEP 5**
**DECISION**
- Review all public comments received on the EA and respond to comments
- Prepare Finding of No Significant Impact (FONSI), as appropriate

---

**PUBLIC INVOLVEMENT**

**SEPTEMBER 2019 PUBLIC MEETING**
- Public Involvement + Comment Analysis

**OCTOBER 2019 PUBLIC MEETING**
- Public Involvement + Comment Analysis

**MARCH/JUNE 2020 PUBLIC MEETINGS**
- Public Involvement + Comment Analysis

**OCTOBER 2020 PUBLIC MEETING**
- Public Involvement + Comment Analysis

**Fall 2020 PUBLIC COMMENTS**
- Public Involvement + Comment Analysis

---

**WE ARE HERE**

- October 27, 2020
- Fortus
- Eccles / FRB EAST
- Section 106 compliance
Define the Undertaking / Initiate Section 106

Identify Consulting Parties

Involve the Public

Define the Area of Potential Effect (APE)

Identify Cultural Resources within the APE

Assess Effects on Significant Resources

Apply Criteria of Adverse Effect

Continue Consultation

Draft an Agreement Document, if needed
<table>
<thead>
<tr>
<th>AGENCY</th>
<th>MILESTONE</th>
<th>OUTCOME</th>
</tr>
</thead>
<tbody>
<tr>
<td>CFA</td>
<td>Informational Hearing, November 21, 2019</td>
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<tr>
<td>NCPC</td>
<td>Concept Design Review, December 5, 2019</td>
<td>Approval of the concept design proposal</td>
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<tr>
<td>CFA</td>
<td>Concept Hearing, January 16, 2020</td>
<td>Approval of the general massing and site improvements</td>
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<tr>
<td>CFA</td>
<td>Revised Concept Hearing, May 21, 2020</td>
<td>Approval of the concept design for the overall project site/landscape and the Eccles Building</td>
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<tr>
<td>CFA</td>
<td>Revised Concept Hearing, July 16, 2020</td>
<td>Approval of the concept design for the FRB-East Building</td>
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<tr>
<td>NCPC</td>
<td>Preliminary Design Review, October 1, 2020</td>
<td>Approval of the preliminary design proposal</td>
</tr>
<tr>
<td>NCPC</td>
<td>Final Review, Spring 2021</td>
<td></td>
</tr>
<tr>
<td>CFA</td>
<td>Final Review, Spring 2021</td>
<td></td>
</tr>
</tbody>
</table>
GARAGE & BIKE ACCESS
10.5’ PARKING RAMP WITH 4’ BIKE LANE LEVEL C1
10.5' PARKING RAMP WITH 4' BIKE LANE SECTION
PERIMETER SECURITY
PERIMETER SECURITY
POST AND RAIL SYSTEM - DEPARTMENT OF COMMERCE

POST-AND-RAIL PRECEDENT

32'-8"
8'-0"
8'-4"
2'-7 1/2"
2'-8 1/2"

PERIMETER SECURITY - POST AND RAIL SYSTEM | K4

ELEVATION AT K4/M30 POST AND RAIL SYSTEM

BOARD DESIGN REVIEW MEETING
FEDERAL RESERVE BOARD | FORTUS

PERIMETER SECURITY STUDIES
1"=1'-0"
SITE SECURITY DIAGRAM  POTENTIAL REVISIONS

- Bollards, Typical
- Retaining Wall as a Barrier
- New Bollard Alignment; Provide Post-and-Chain, Typical
- Post & Chain, Typical
- Post-and-Rail, Typical
- Guardrail with integrated security
- Wedge Barrier or Retractable Bollards, Typical
- Post-and-Rail, Typical
PERIMETER SECURITY POST AND RAIL SYSTEM
PERIMETER SECURITY WALL, POST AND RAIL SYSTEM W/ BOLLARDS AT VULNERABLE CORNERS | OPT 4
PERIMETER SECURITY WALL, POST AND RAIL SYSTEM W/ BOLLARDS AT CORNERS | OPT 4
PERIMETER SECURITY BOLLARD SYSTEM AND POST AND RAIL SYSTEM AT CORNERS | OPT 5
PERIMETER SECURITY  BOLLARD SYSTEM AND POST AND RAIL SYSTEM AT CORNERS | OPT 5
FRB-EAST BUILDING CONSTITUTION AVE NW SECTION - NORTH/SOUTH | PROPOSED SITING OF BOLLARDS AND RAILS
BIORETENTION
BIORETENTION SOUTH OF ECCLES
Perspective Rendering
ECCLES
OVERBUILD
Eccles infills and overbuild 12" out-of-plane offset (inverse)
ECCLES INFILLS AND OVERBUILD 12" OUT-OF-PLANE OFFSET (INVERSE)
ECCLES SKYLIGHT
ECCLES SKYLIGHT EXISTING CONSTRAINTS

APPROX. 8"
FROM TOP OF ROOF TO TOP OF SKYLIGHT

CRITICAL MINIMUM DIMENSION TO EXISTING CONDITION

APPROX. 22"
FROM TOP OF ROOF TO TOP OF SKYLIGHT
SCHEMATIC DESIGN

CARRIER: TOGGLE-GLAZED ALUMINUM MULLION
STANDOFF: STEEL POST WITH ADJUSTABLE LEVEL

DESIGN DEVELOPMENT

CARRIER: TOGGLE-GLAZED ALUMINUM MULLION
STANDOFF: STEEL ‘DOUBLE-L’ BRACKET

DESIGN DEVELOPMENT (ALTERNATE)

CARRIER: CUSTOM STEEL MULLION
STANDOFF: STEEL ‘DOUBLE-L’ STANDOFF

*FEASIBILITY OF ASSEMBLY CURRENTLY UNDER ENGINEERING REVIEW

ADJUSTABILITY AT SKYLIGHT CARRIER AND STANDOFF ASSEMBLY TO ACCOMMODATE ANTICIPATED DEAD LOAD AND LIVE LOAD DEFLECTION, AND CONSTRUCTION TOLERANCE
WINDOWS
PERFORMANCE CRITERIA

— ENVELOPE ‘TIGHTNESS’ (CONTINUITY OF AIR, VAPOR, AND THERMAL BARRIER)
— ENERGY PERFORMANCE
— BLAST RESISTANCE (ALL EXTERIOR WINDOWS)
— BALLISTIC RESISTANCE (LIMITED EXTERIOR LOCATIONS)
— FIRE RESISTANCE (ATRIA AND LIMITED EXTERIOR LOCATIONS)

PRIMARY CONSIDERATIONS

— SERVICABILITY
— LONGEVITY
— FABRICATION LIMITATIONS
— MANUFACTURERS’ TESTING
— IMPACTS TO CONSTRUCTION (SALVAGE, DEMO, ETC.)
— PRESERVATION (OF CHARACTER-DEFINING EXTERIOR FEATURES)

EXISTING WINDOW OBJECTIVES
### FRB-East Existing Windows (Exterior)

<table>
<thead>
<tr>
<th><strong>Anchorage</strong></th>
<th>Anchorage to Brick Masonry (Attachment Type TBD)</th>
<th>Structural Support at Mullions and Transoms (TBD) Installed from Interior</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Frames</strong></td>
<td>Aluminum Extrusions</td>
<td>Fixed and Operable (Casement and Hopper) Units</td>
</tr>
<tr>
<td><strong>Glazing</strong></td>
<td>Single-Pane Glazing</td>
<td></td>
</tr>
<tr>
<td><strong>Spandrels</strong></td>
<td>Cast Aluminum Spandrels</td>
<td>Early Annodization ('Deplating' Method)</td>
</tr>
<tr>
<td><strong>Ornament</strong></td>
<td>Cast Aluminum Ornamentation</td>
<td>Early Annodization ('Deplating' Method)</td>
</tr>
<tr>
<td><strong>Character-Defining Features</strong></td>
<td>Cast Aluminum Ornamentation at Window Frames</td>
<td>Cast Aluminum Decorative Spandrel Panel</td>
</tr>
</tbody>
</table>
FRB-EAST EXISTING WINDOWS (EXTERIOR)

ANCHORAGE
ANCHORAGE TO BRICK MASONRY (ATTACHMENT TYPE TBD)
STRUCTURAL SUPPORT AT MULLIONS AND TRANSOMS (TBD)
INSTALLED FROM INTERIOR

FRAMES
ALUMINUM EXTRUSIONS
FIXED AND OPERABLE (CASEMENT AND HOPPER) UNITS

GLAZING
SINGLE-PANE GLAZING

SPANDRELS
CAST ALUMINUM SPANDRELS
EARLY ANODIZATION (‘DEPLATING’ METHOD)

ORNAMENT
CAST ALUMINUM ORNAMENTATION
EARLY ANODIZATION (‘DEPLATING’ METHOD)
MECHANICALLY FASTENED TO ALUMINUM FRAMES

CHARACTER-DEFINING FEATURES
CAST ALUMINUM ORNAMENTATION AT WINDOW FRAMES
CAST ALUMINUM DECORATIVE SPANDREL PANEL

EXISTING WINDOWS
1951 TYPICAL EXISTING CONDITIONS
MARBLE VENEER
BRICK MASONRY (2 WYTHES)
WINDOW
ALUM EXTRUSIONS AND TRIMS
SINGLE-PANE GLAZING

A – DETAIL PLAN – WINDOW JAMB

FRB-East Windows
## FRB-EAST EXISTING WINDOWS (ATRIM)

<table>
<thead>
<tr>
<th><strong>ANCHORAGE</strong></th>
<th>Anchorage to brick masonry (attachment type TBD)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Structural support at mullions and transoms (TBD)</td>
</tr>
<tr>
<td></td>
<td>Installed from interior</td>
</tr>
<tr>
<td><strong>FRAMES</strong></td>
<td>Steel extrusions</td>
</tr>
<tr>
<td></td>
<td>Fixed and operable (casement and hopper) units</td>
</tr>
<tr>
<td><strong>GLAZING</strong></td>
<td>Single-pane glazing</td>
</tr>
<tr>
<td><strong>SPANDRELS</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>ORNAMENT</strong></td>
<td>N/A</td>
</tr>
</tbody>
</table>
NEW CONSTRUCTION NOTED IN ORANGE FILL

- MARBLE VENEER
- BRICK MASONRY (3 WYTHES)
- EXISTING ORNAMENTATION
- CAST ALUMINUM
  (REINSTALLED ON STRUCTURAL STEEL FRAMING)
- ALUMINUM WINDOW UNIT
- THERMALLY-BROKEN
  WITH CUSTOM TRIM
- LAMINATED INSULATED GLAZING UNIT
  WITH LOW-E COATING
- STRUCTURAL STEEL FRAMING
  FULL-HEIGHT
- MECHANICAL ENCLOSURE
- CLOSED-CELL SPRAY FOAM INSULATION
  (AIR BARRIER AND VAPOR RETARDER)
- CAVEITY MINERAL WOOL INSULATION
- METAL STUD FURRING
- CAVEITY FOR SYSTEMS INTEGRATION
- VAPOR RETARDER
- INTERIOR FINISH
### Eccles Existing Windows

| **Anchorage** | Steel Angle Anchorage to Brick Masonry  
Anchorages at Jambbs Only  
Installed from Interior |
|---------------|-----------------------------------------------------------------------------------|
| **Frames**    | Bronze Extrusions  
Fixed and Operable (Casement and Hopper) Units  
Statuary Bronze Finish |
| **Glazing**   | Single-Pane Glazing |
| **Spandrels** | Granite Stone Spandrels  
Inlaid Cast Bronze Ornamentation  
Statuary Bronze Finish |
| **Ornament**  | Cast Bronze Ornamentation  
Statuary Bronze Finish  
Mechanically Fastened to Bronze Frames |
| **Character-Defining Features** | Entire Window Assemblies, Including Cast Bronze Ornamentation, Granite Spandrels, and Decorative Cast Bronze Grilles |
ECCLES EXISTING WINDOWS

**ANCHORAGE**
STEEL ANGLE ANCHORAGE TO BRICK MASONRY
ANCHORAGE AT JAMBS ONLY INSTALLED FROM INTERIOR

**FRAMES**
BRONZE EXTRUSIONS
FIXED AND OPERABLE (CASEMENT AND HOPPER) UNITS
STATUARY BRONZE FINISH

**GLAZING**
SINGLE-PANE GLAZING

**SPANDRELS**
GRANITE STONE SPANDRELS
INLAID CAST BRONZE ORNAMENTATION
STATUARY BRONZE FINISH

**ORNAMENT**
CAST BRONZE ORNAMENTATION
STATUARY BRONZE FINISH
MECHANICALLY FASTENED TO BRONZE FRAMES

**CHARACTER-DEFINING FEATURES**
ENTIRE WINDOW ASSEMBLIES, INCLUDING CAST BRONZE ORNAMENTATION, GRANITE SPANDRELS, AND DECORATIVE CAST BRONZE GRILLES

**ECCLES WINDOWS**
NEW CONSTRUCTION NOTED IN ORANGE FILL

ECCLES WINDOWS

DETAIL PLAN – WINDOW JAMB

- MARBLE VENEER
- BRICK MASONRY (3 WYTHES)
- WINDOW ANCHOR (AT JAMBS)
- CLOSED-CELL SPRAY FOAM INSULATION (ISOLATION MEMBRANE AT MARBLE)
- EXISTING WINDOW BRONZE EXTRUSIONS AND TRIMS (RESTORED IN-PLACE)
- EXISTING GLAZING SINGLE-pane GLAZING (REPLACE BROKEN PANES)
- THERMAL ISOLATION MATERIAL (ISOLATE EXISTING WINDOW FROM INTERIOR STORM)
- LAMINATED INSULATED GLAZING UNIT WITH LOW-E COATING
- INTERIOR STORM WINDOW THERMALLY-BROKEN REMOVABLE SASH FOR MAINTENANCE WITH CUSTOM TRIM
- STRUCTURAL STEEL FRAMING FULL-HEIGHT
- MECHANICAL ENCLOSURE
- CLOSED-CELL SPRAY FOAM INSULATION (AIR BARRIER AND VAPOR RETARDER)
- CAVERN MINERAL WOOL
- METAL STUD FURRING
- CAVERN FOR SYSTEMS INTEGRATION
- VAPOR RETARDER
- INTERIOR FINISH
ACCESSIBILITY
ABA ACCES AT ENTRANCE LOBBIES
ECCLES RAMP

LEVEL 1 PLAN

ECCLES CONSTITUTION AVENUE ENTRANCE HALL RAMP OPTIONS
MEP SYSTEMS INTEGRATION
CONTEXTUALLY-RESPONSIVE HIGH-PERFORMANCE BUILDING SYSTEMS

- FAN COIL SYSTEM
- PERIMETER HEAT BELOW WINDOWS
- CHILLED BEAM SYSTEM
- VAV SYSTEM
- DISPLACEMENT VENTILATION AND RADIANT FLOOR
ELEVATOR CORE
ATRIUM OPENINGS INFILL LOCATION | 5' DOOR
ATRIUM OPENINGS INFILL LOCATION | OPEN

ATRIUM OPENINGS

08/19/2020

PG # 6

Atrium Openings

Eccles / FRB EAST | SECTION 106 COMPLIANCE

October 27, 2020

Fortus | Board of Governors - The Federal Reserve System
Atrium Openings Core E/W Wall | 5' Door
INTERIOR MODIFICATIONS
Eccles Interior Modifications Level 01

Existing Building Plan

Proposed Plan

Area of Historic Corridor and Ceiling Preservation

Partitions to be Removed
ECCLES INTERIOR MODIFICATIONS LEVEL 04

Existing Building Plan

Proposed Plan

HOLLOW CLAY TILE WITH PLASTER/DRYWALL FINISH
HOLLOW CLAY TILE WITH MARBLE FINISH
HOLLOW CLAY TILE WITH WOOD FINISH
HOLLOW CLAY TILE WITH CERAMIC TILE FINISH

Area of Historic Ceiling (To Be Preserved)
Area of Historic Ceiling (Potentially Preserved)

Area of Historic Corridor and Ceiling Preservation
Partitions to Be Removed
HOLLOW CLAY TILE WITH PLASTER/DRYWALL FINISH
HOLLOW CLAY TILE WITH MARBLE FINISH
HOLLOW CLAY TILE WITH WOOD FINISH
HOLLOW CLAY TILE WITH CERAMIC TILE FINISH
GYPSUM BLOCK TILE (SAME FINISHES APPLY)

EXISTING BUILDING PLAN

PROPOSED PLAN

AREA OF HISTORIC CORRIDOR AND CEILING PRESERVATION
PARTITIONS TO BE REMOVED
FRB-EAST INTERIOR MODIFICATIONS LEVEL 03

EXISTING BUILDING PLAN

PROPOSED PLAN

AREA OF HISTORIC CORRIDOR AND CEILING PRESERVATION

PARTITIONS TO BE REMOVED
NEXT STEPS
<table>
<thead>
<tr>
<th>MILESTONE</th>
<th>DATE</th>
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<tbody>
<tr>
<td>Public Scoping Meeting</td>
<td>September/October 2019</td>
</tr>
<tr>
<td>Public/Consulting Parties Meeting #2</td>
<td>October 16, 2019</td>
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<tr>
<td>Public/Consulting Parties Meeting #3</td>
<td>March 17, 2020</td>
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<td>Public/Consulting Parties Meeting #4</td>
<td>June 24, 2020</td>
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<td>Public/Consulting Parties Meeting #5</td>
<td>October 27, 2020</td>
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<tr>
<td>Public/Consulting Parties Meeting #6</td>
<td>Winter 2021</td>
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<tr>
<td>Preparation of Environmental Assessment Public Review Draft</td>
<td>September 2019 through Fall 2020</td>
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<tr>
<td>EA Public Review Period</td>
<td>September/October 2020</td>
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<tr>
<td>Section 106 Consultation</td>
<td>September 2019 through Fall 2020/Winter 2021</td>
</tr>
<tr>
<td>Anticipated Preparation of Decision Document</td>
<td>Fall 2020/Winter 2021</td>
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</table>
QUESTIONS AND COMMENTS:

This presentation will be posted to the NCPC website at the following URL:

https://www.ncpc.gov/projects/8113/

Consulting parties and the public may submit questions or comments on these materials by Tuesday, November 24, 2020.

Comments and questions can be addressed to:

FRB-Renovation@frb.gov