RHDC
RALEIGH HISTORIC
DEVELOPMENT COMMISSION

CERTIFICATE OF APPROPRIATENESS PLACARD

for Raleigh Historic Resources

99 N Salisbury St
Address

Capitol Square
Historic District

First Baptist Church (1859)
Historic Property

COA-0100-2022
Certificate Number

8/29/2022
Date of Issue

3/1/2023
Expiration Date

Project Description:
Replace concrete front steps and terrace pavers in-kind; enlarge front weeping holes, install front ground scuppers; construct low-profile stucco cap at building/ front step joint

This card must be kept posted in a location within public view until all phases of the described project are complete. The work must conform with the code of the City of Raleigh and laws of the state of North Carolina. When your project is complete, you are required to ask for a final zoning inspection in a historic district area. Telephone the RHDC office at 832-7238 and commission staff will coordinate the inspection with the inspections Department. If you do not call for this final inspection, your Certificate of Appropriateness is null and void.

Signature, Erin Morton
Raleigh Historic Development Commission

Pending the resolution of appeals, commencement of work is at your own risk.

Type or print the following:		
Applicant name: Sarah Woodard		
Mailing address: 512 E. Lane Street		
City: Raleigh	State: NC	Zip code: 27601
Date: August 21, 2022	Daytime phone #: 336-682-3695	
Email address: winstondawg@gmail.com		
Applicant signature: Sarah A. Woodard		

Minor work (staff review) – one copy Major work (COA committee review) – ten copies Additions > 25% of building sq. footage New buildings Demolition of building or structure All other Post approval re-review of conditions of approval	**Office Use Only** Transaction #: _____ File #: COA-0100-2022 Fee: _____ Amount paid: _____ Received date: _____ Received by: _____

Property street address: 99 N. Salisbury Street, Raleigh, 27603
Historic district: Capitol Square Historic District
Historic property/Landmark name (if applicable):
Owner name: First Baptist Church, Raleigh
Owner mailing address: 99 N. Salisbury Street, Raleigh, NC 27603

For applications that require review by the COA Committee (major work), provide addressed and stamped envelopes for owners for all properties with 100 feet on all sides of the property, as well as the property owner.

Property Owner Name & Address	Property Owner Name & Address

I understand that all major work applications that require review by the Raleigh Historic Development Commission's COA Committee must be submitted by 4 p.m. on the date of the application deadline; otherwise, consideration will be delayed until the following committee meeting. An incomplete application will not be accepted.

Will you be applying for rehabilitation tax credits for this project? Yes No Did you consult with staff prior to filing the application? Yes No	Office Use Only Type of work: 17, 40, 66

Design Guidelines: please cite the applicable sections of the design guidelines (www.rhdc.org).		
Section/Page	Topic	Brief description of work (attach additional sheets as needed).
2.2.5	repoint/repair stucco	repairing crumbling stucco along the base of the steps front wall
2.2.1, 2.2.2, 2.2.4	preserve and retain, protect and maintain	repairing crumbling stone steps
2.2.3	imporove drainage	installing a masonry feature at the intersection of the building and steps to limit water damage and prevent future deterioration of the steps
2.2.3	protect/maintain through good drainage	widen weep holes and install scuppers

Minor Work Approval (office use only)

Upon being signed and dated below by the Planning Director or designee, this application becomes the Minor Work Certificate of Appropriateness. It is valid until 03/01/2023.

Please post the enclosed placard form of the certificate as indicated at the bottom of the card. Issuance of a Minor Work Certificate shall not relieve the applicant, contractor, tenant, or property owner from obtaining any other permit required by City Code or any law. Minor Works are subject to an appeals period of 30 days from the date of approval.

Signature (City of Raleigh) Erin Martin Date 08/29/2022

First Baptist Church, Salisbury Street, COA Application, August 2022
Replace front steps to match existing, install scuppers, install shed over interior corner where stairs meet the building

First Baptist Church, Salisbury Street, seeks to reconstruct its front steps and make some minor alterations to prevent a repetition of the same deterioration problem that is triggering the replacement. The proposal will conservatively but effectively repair the steps and improve water drainage on and around the steps while maintaining historic material, historic character, and the building's contribution to the Capitol Square Historic District.

Replacing the stairs and terrace and repairing the base of the front wall fall under the description of "routine maintenance," which includes replacement where there is no change in materials or design. While these repairs do not seem to require a Certificate of Appropriateness, other components of the project may and, therefore, the entire project is described in this application. Within the list of work governed by a Certificate of Appropriateness, the introduction of scuppers and low-profile structures to cover interior corners fall under items 17, 40, and 60 on the list of work, and appear to the applicant to meet the requirements of Minor Works.

The church's front door opens out onto a flat terrace several feet above the grade of Salisbury Street. On either side of the terrace, steps descend with elongated triangular treads that carry the steps around the front corners of the entrance bay to a landing, and then along the plane of the front elevation.

Steps from the front door down to the terrace are granite. The terrace is composed of concrete pavers. The turned steps are tinted concrete. The lower landings are granite. The straight run of steps from the lower landings to the street level are concrete for several steps and the bottom most steps are granite.

While the street appearance of the stairs and terrace behind a retaining wall or cheek wall is the historic appearance, it is not clear when the existing granite and concrete steps were installed or when the concrete pavers on the terrace were installed. It is also not known what the original materials were. The tinting of the existing turned steps suggests that perhaps they replaced sandstone steps.

Over time, water damage has occurred to the concrete components of the composition. The concrete is flaking and scaling and crumbling, and the north stairs have become unsafe for use.

The current project proposes replacing the concrete steps and creating healthier water drainage to prevent future damage. Granite steps will not be replaced or altered. Four primary items are proposed:

1. replacing the deteriorated concrete steps and concrete terrace pavers

2. improving the intersections between the steps and the building by creating a low stuccoed housing over the interior corners to more effectively shed water away from the building and away from the corners where it currently collects;
3. improving drainage within the wall that fronts the terrace and steps by enlarging the existing weep holes slightly and adding a modest scupper to each hole;
4. repairing crumbling stucco along the base of the front wall.

The existing iron railings will be maintained.

When completed, the visible changes will include very slightly larger weep holes, a low-profile, minimally intrusive shed over the interior corners of the stairs, and a smoother, un-crumbling finish to the steps, terrace floor, and base of the structure.

The proposed work meets the design guidelines that address masonry, specifically by conforming to guidelines 2.21, 2.2.2, 2.2.3, 2.2.4, and 2.2.5. The work will conservatively but effectively repair the steps and improve water drainage on and around the steps.


"Let justice roll down like waters
and righteousness like an
ever-flowing stream"
BAPTIST CHURCH
A.D. 1838

Proposed cap to cover interior corner

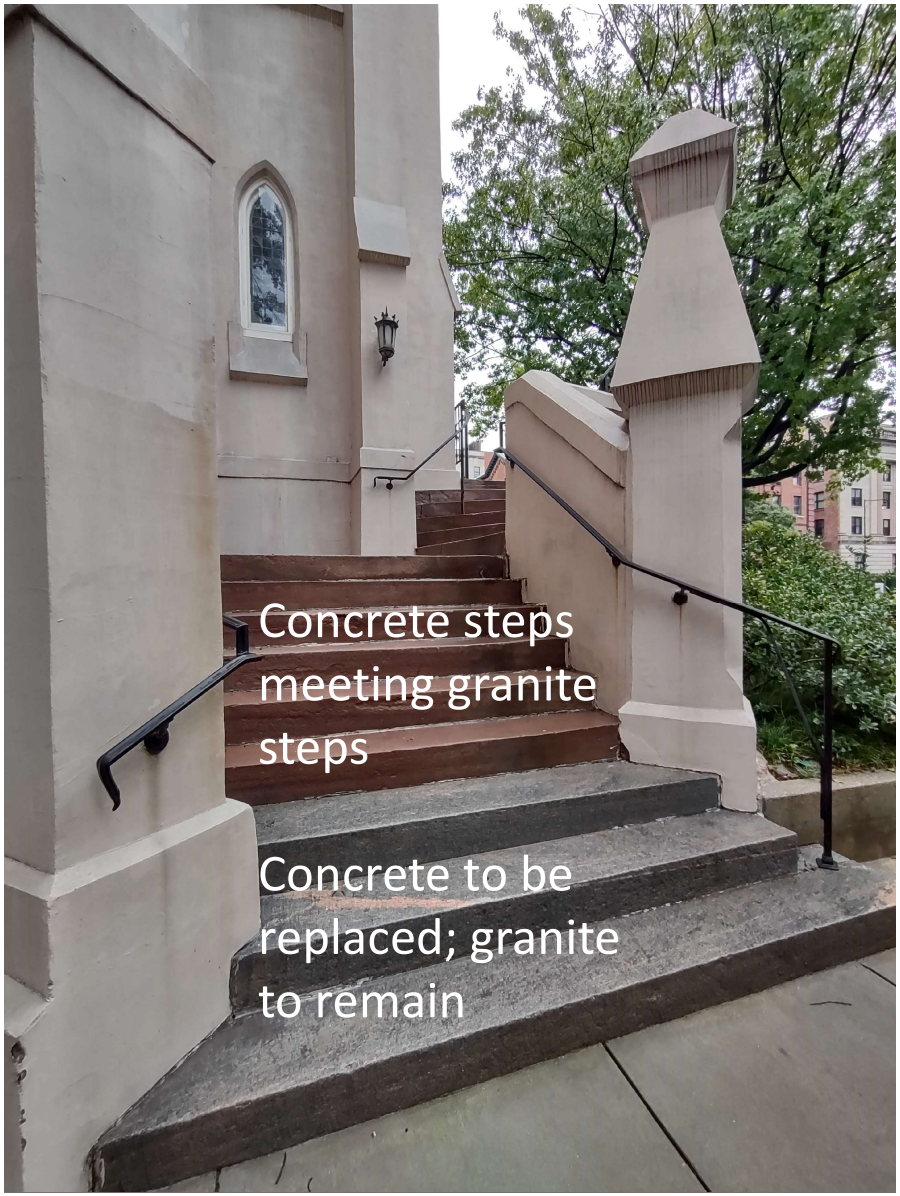

WE ARE LISTENING. WE ARE STANDING WITH YOU.
FIRST BAPTIST CHURCH
WEN SALISBURY STREET | RALEIGH
FBCRALEIGH.ORG
BAPTIST CHURCH
A.D. 1859


WE ARE LISTENING. WE ARE STANDING WITH YOU.
FIRST BAPTIST CHURCH
WEST SALISBURY STREET | RALEIGH
FBCRALEIGH.ORG
BAPTIST CHURCH
A.D. 1859
Proposed
scupper


Concrete terrace to be replaced with concrete to match existing


Concrete steps
down from terrace
to first landing
To be replaced with
concrete to match
existing


With proposed cap over interior corner


Concrete steps meeting granite steps
Concrete to be replaced; granite to remain


Concrete terrace
to be replaced
with concrete
tinted to match
existing


Concrete steps
down from terrace
to first landing
To be replaced with
concrete tinted to
match


Concrete steps meeting granite steps
Concrete to be replaced; granite to remain


Location of proposed cap over interior corner

Deteriorated stucco along the base to be patched; this occurs around the entire base of the structure.

L&A LYSAGHT & ASSOCIATES
structural engineers
120 St. Mary's Street
Raleigh, NC 27605
919.833.0495
LysaghtAssociates.com
Firm No. C-0621

FIRST BAPTIST CHURCH FRONT ENTRY REPAIR

RALEIGH, NC

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)
(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: First Baptist Church Front Entry Repair
Address: 99 N. Salisbury Street, Raleigh, NC 27603 Zip Code 27401
Owner/Authorized Agent: CHUCK LYSAGHT, PE Phone # (919) 833 - 0495 E-Mail chuck@lysaghtassociates.com
Owned By: ☐ City/County ☒ Private ☐ State
Code Enforcement Jurisdiction: ☐ City_____ ☐ County_____ ☐ State

CONTACT: _____

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural	N/A	N/A	N/A	( ) N/A	N/A
Civil	N/A	N/A	N/A	( ) N/A	N/A
Electrical	N/A	N/A	N/A	( ) N/A	N/A
Fire Alarm	N/A	N/A	N/A	( ) N/A	N/A
Plumbing	N/A	N/A	N/A	( ) N/A	N/A
Mechanical	N/A	N/A	N/A	( ) N/A	N/A
Sprinkler-Standpipe	N/A	N/A	N/A	( ) N/A	N/A
Structural	LYSAGHT & ASSOCIATES	CHUCK LYSAGHT	7929	(919) 833.0495	chuck@lysaghtassociates.com
Retaining Walls >5' High				( )	
Other				( )	

("Other" should include firms and individuals such as truss, precast, pre-engineered, interior designers, etc.)

2018 NC BUILDING CODE: ☐ New Building ☐ Addition ☒ Renovation
☐ 1st Time Interior Completion
☐ Shell/Core - Contact the local inspection jurisdiction for possible additional procedures and requirements
☐ Phased Construction - Shell/Core- Contact the local inspection jurisdiction for possible additional procedures and requirements

2018 NC EXISTING BUILDING CODE: EXISTING: ☐ Prescriptive ☒ Repair ☐ Chapter 14
Alteration: ☐ Level I ☐ Level II ☐ Level III
☒ Historic Property ☐ Change of Use

CONSTRUCTED: (date) Mid 1800's **CURRENT OCCUPANCY(S)** (Ch. 3): A-3 (exhibit)
RENOVATED: (date) _____ **PROPOSED OCCUPANCY(S)** (Ch. 3): A-3

RISK CATEGORY (Table 1604.5): **Current:** ☐ I ☒ II ☐ III ☐ IV
Proposed: ☐ I ☒ II ☐ III ☐ IV

BASIC BUILDING DATA
Construction Type: ☐ I-A ☐ II-A ☐ III-A ☐ IV ☐ V-A
(check all that apply) ☐ I-B ☐ II-B ☐ III-B ☐ V-B
Sprinklers: ☐ No ☐ Partial ☐ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D
EXEMPT FOR EXISTING BUILDINGS
Standpipes: ☐ No ☐ Yes ☐ Dry
Fire District: ☐ No ☐ Yes **Flood Hazard Area:** ☐ No ☐ Yes
Special Inspections Required: ☐ No ☐ Yes (Contact the local inspection jurisdiction for additional procedures and requirements.)

Gross Building Area Table

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
3rd Floor	—	—	—
2nd Floor	—	—	—
Mezzanine	—	—	—
1st Floor	—	—	—
Basement	—	—	—
TOTAL	—	—	—

ALLOWABLE AREA

Primary Occupancy Classification(s): Select one Select one Select one Select one Select one Select one
Assembly ☐ A-1 ☐ A-2 ☒ A-3 ☐ A-4 ☐ A-5
Business ☐
Educational ☐
Factory ☐ F-1 Moderate ☐ F-2 Low
Hazardous ☐ H-1 Detonate ☐ H-2 Deflagrate ☐ H-3 Combust ☐ H-4 Health ☐ H-5 HPM
Institutional ☐ I-1 Condition ☐ 1 ☐ 2
☐ I-2 Condition ☐ 1 ☐ 2
☐ I-3 Condition ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
☐ I-4
Mercantile ☐
Residential ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
Storage ☐ S-1 Moderate ☐ S-2 Low ☐ High-piled
☐ Parking Garage ☐ Open ☐ Enclosed ☐ Repair Garage
Utility and Miscellaneous ☐
Accessory Occupancy Classification(s): N/A
Incidental Uses (Table 509): N/A
Special Uses (Chapter 4 – List Code Sections): N/A
Special Provisions: (Chapter 5 – List Code Sections): N/A
Mixed Occupancy: ☒ No ☐ Yes Separation: ____ Hr. Exception: _____

☐ Non-Separated Use (508.3) - The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.

☐ Separated Use (508.4) - See below for area calculations for each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$$

_____ + _____ + ... = _____ ≤ 1.00

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2[4] AREA	(C) AREA FOR FRONTAGE INCREASE[1,5]	(D) ALLOWABLE AREA PER STORY OR UNLIMITED[2,3]
			HISTORIC PROPERTY - NO CHANGES		

[1] Frontage area increases from Section 506.3 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = _____ (F)
b. Total Building Perimeter = _____ (P)
c. Ratio (F/P) = _____ (F/P)
d. W = Minimum width of public way = _____ (W)
e. Percent of frontage increase I_f = 100[F/P – 0.25] x W/30 = _____ (%)
[2] Unlimited area applicable under conditions of Section 507.
[3] Maximum Building Area = total number of stories in the building x D (maximum3 stories) (506.2).
[4] The maximum area of open parking garages must comply with Table 406.5.4.
[5] Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE [1]
Building Height in Feet (Table 504.3) [2]	HISTORIC PROPERTY - NO CHANGES		
Building Height in Stories (Table 504.4) [3]			

[1] Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.
[2] The maximum height of air traffic control towers must comply with Table 412.3.1.
[3] The maximum height of open parking garages must comply with Table 406.5.4.

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D	RATING PROVIDED (w/_____* REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses	N/A - HISTORIC PROPERTY						
Bearing Walls							
Exterior							
North			N/A - HISTORIC PROPERTY				
East							
West							
South							
Interior							
Nonbearing Walls and Partitions							
Exterior walls							
North			N/A - HISTORIC PROPERTY				
East							
West							
South							
Interior walls and partitions							
Floor Construction Including supporting beams and joists			N/A - HISTORIC PROPERTY				
Floor Ceiling Assembly							
Columns Supporting Floors							
Roof Construction, including supporting beams and joists			N/A - HISTORIC PROPERTY				
Roof Ceiling Assembly							
Columns Supporting Roof							
Shaft Enclosures - Exit			N/A - HISTORIC PROPERTY				
Shaft Enclosures - Other							
Corridor Separation							
Occupancy/Fire Barrier Separation							
Party/Fire Wall Separation							
Smoke Barrier Separation			N/A - HISTORIC PROPERTY				
Smoke Partition							
Tenant/Dwelling Unit/ Sleeping Unit Separation							
Incidental Use Separation							

* Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
	N/A - HISTORIC PROPERTY		

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: ☐ No ☐ Yes
Exit Signs: ☐ No ☐ Yes
Fire Alarm: ☐ No ☐ Yes N/A - HISTORIC PROPERTY
Smoke Detection Systems: ☐ No ☐ Yes ☐ Partial _____
Carbon Monoxide Detection: ☐ No ☐ Yes

ACCESSIBLE DWELLING UNITS
(SECTION 1107)

TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED
			N/A - REPAIRS TO HISTORIC PROPERTY				

ACCESSIBLE PARKING
(SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH 132" ACCESS AISLE	VAN SPACES WITH 8' ACCESS AISLE	
			N/A - REPAIRS TO HISTORIC PROPERTY			
TOTAL						

PLUMBING FIXTURE REQUIREMENTS
(TABLE 2902.1)

USE		WATERCLOSETS MALE	WATERCLOSETS FEMALE	WATERCLOSETS UNISEX	URINALS	LAVATORIES MALE	LAVATORIES FEMALE	LAVATORIES UNISEX	SHOWERS /TUBS	DRINKING FOUNTAINS REGULAR	DRINKING FOUNTAINS ACCESSIBLE
SPACE	EXIST'G										
	NEW				N/A - REPAIRS TO HISTORIC PROPERTY						
	REQ'D										

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below)
N/A

ENERGY SUMMARY

ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Existing building envelope complies with code: ☐ No ☐ Yes (The remainder of this section is not applicable)
Exempt Building: ☐ No ☐ Yes (Provide code or statutory reference): _____
N/A - REPAIRS TO HISTORIC PROPERTY
Climate Zone: ☐ 3A ☐ 4A ☐ 5A
Method of Compliance: Energy Code ☐ Performance ☐ Prescriptive
ASHRAE 90.1 ☐ Performance ☐ Prescriptive
(If "Other" specify source here)

THERMAL ENVELOPE (Prescriptive method only)

Roof/ceiling Assembly (each assembly)
Description of assembly:
U-Value of total assembly:
R-Value of insulation:
Skylights in each assembly:
U-Value of skylight:
total square footage of skylights in each assembly:

Exterior Walls (each assembly)
Description of assembly:
U-Value of total assembly:
R-Value of insulation:
Openings (windows or doors with glazing)
U-Value of assembly:
Solar heat gain coefficient:
projection factor:
Door R-Values:
N/A - REPAIRS TO HISTORIC PROPERTY

Walls below grade (each assembly)
Description of assembly:
U-Value of total assembly:
R-Value of insulation:

Floors over unconditioned space (each assembly)
Description of assembly:
U-Value of total assembly:
R-Value of insulation:

Floors slab on grade
Description of assembly:
U-Value of total assembly:
R-Value of insulation:
Horizontal/vertical requirement:
slab heated:

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
STRUCTURAL DESIGN
(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:

Importance Factors: Snow (I_S) 1.0
Seismic (I_E) EXEMPT FOR EXISTING BUILDINGS

Live Loads: Roof N/A psf
Mezzanine N/A psf
Floor 100 psf

Ground Snow Load: 15 psf

Wind Load: Ultimate Wind Speed 115 mph (ASCE-7)
Exposure Category N/A

SEISMIC DESIGN CATEGORY: ☐ A ☐ B ☐ C ☐ D
Provide the following Seismic Design Parameters:
Risk Category (Table 1604.5) ☐ I ☐ II ☐ III ☐ IV
Spectral Response Acceleration S_S_____ %g S_1_____ %g
Site Classification (ASCE 7) ☐ A ☐ B ☐ C ☐ D ☐ E ☐ F
Data Source: ☐ Field Test ☐ Presumptive ☐ Historical Data
Basic structural system EXEMPT FOR EXISTING BUILDINGS
☐ Bearing ☐ Frame
☐ Building Frame ☐ Dual w/Intermediate R/C or Special Steel
☐ Moment Frame ☐ Inverted Pendulum
Analysis Procedure: ☐ Simplified ☐ Equivalent Lateral Force ☐ Dynamic
Architectural, Mechanical, Components anchored? ☐ Yes ☐ No

LATERAL DESIGN CONTROL: Earthquake ☐ Wind ☐

SOIL BEARING CAPACITIES:
Field Test (provide copy of test report) N/A psf
Presumptive Bearing capacity 2000 psf
Pile size, type, and capacity N/A

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
MECHANICAL DESIGN
(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone
winter dry bulb: _____
summer dry bulb: _____

Interior design conditions
winter dry bulb: _____
summer dry bulb: _____
relative humidity: _____

Building heating load: _____ N/A - REPAIRS TO HISTORIC PROPERTY
Building cooling load: _____

Mechanical Spacing Conditioning System
Unitary
description of unit: _____
heating efficiency: _____
cooling efficiency: _____
size category of unit: _____
Boiler
Size category. If oversized, state reason.: _____
Chiller
Size category. If oversized, state reason.: _____

List equipment efficiencies: _____

NORTH CAROLINA PROFESSIONAL SEAL 7929 ENGINEER CHARLES A. LYSAGHT
06/15/2022

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
ELECTRICAL DESIGN
(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance: Energy Code ☐ Performance ☐ Prescriptive
ASHRAE 90.1 ☐ Performance ☐ Prescriptive

Lighting schedule (each fixture type)
lamp type required in fixture
number of lamps in fixture
ballast type used in the fixture
number of ballasts in fixture N/A - REPAIRS TO HISTORIC PROPERTY
total wattage per fixture
total interior wattage specified vs. allowed (whole building or space by space)
total exterior wattage specified vs. allowed

Additional Efficiency Package Options
(When using the 2018 NCECC; not required for ASHRAE 90.1)
☐ C406.2 More Efficient HVAC Equipment Performance
☐ C406.3 Reduced Lighting Power Density
☐ C406.4 Enhanced Digital Lighting Controls
☐ C406.5 On-Site Renewable Energy
☐ C406.6 Dedicated Outdoor Air System
☐ C406.7 Reduced Energy Use in Service Water Heating

L&A LYSAGHT & ASSOCIATES
structural engineers
120 St. Mary's Street
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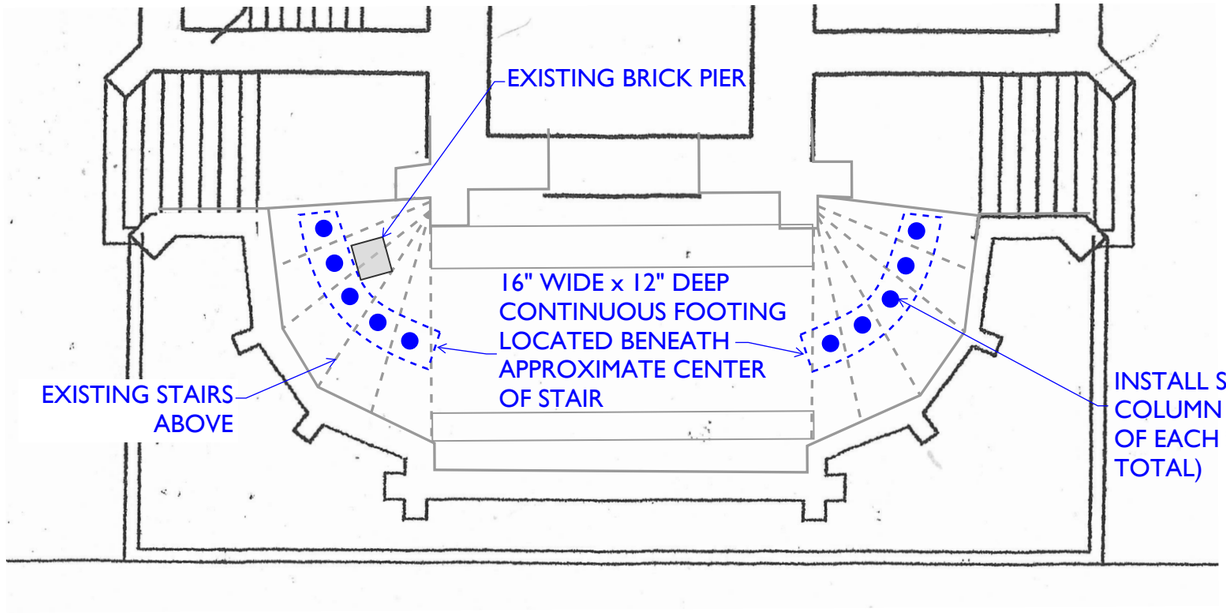
LysaghtAssociates.com
Firm No. C-0621

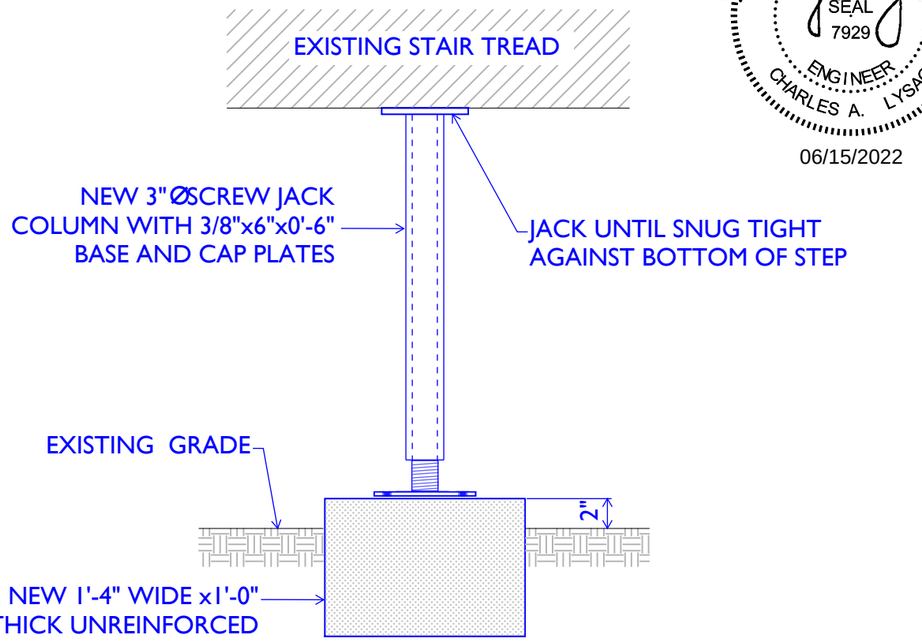
FIRST BAPTIST CHURCH FRONT ENTRY REPAIR

RALEIGH, NC



PARTIAL PLAN AT FRONT ENTRY

NOT TO SCALE



SECTION THROUGH SCREW JACK COLUMN

NOT TO SCALE

NORTH CAROLINA PROFESSIONAL SEAL 7929 ENGINEER CHARLES A. LYSAGHT

06/15/2022

L&A LYSAGHT & ASSOCIATES
structural engineers
120 St. Mary's Street
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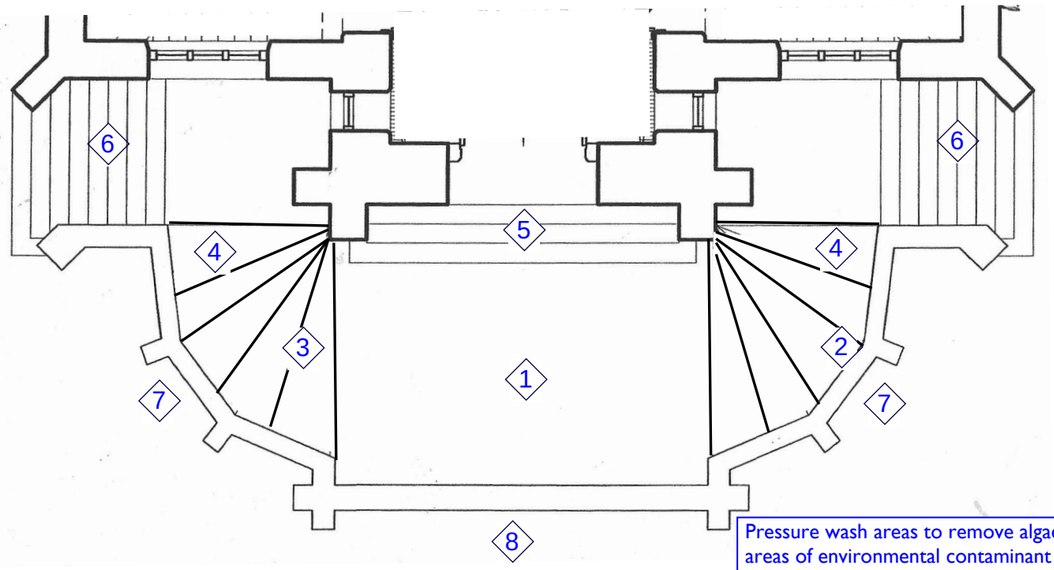
FIRST BAPTIST CHURCH FRONT ENTRY REPAIR

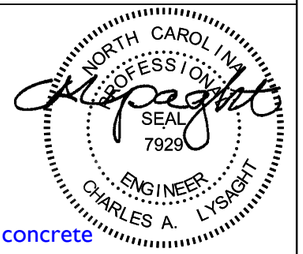
RALEIGH, NC



PARTIAL PLAN AT FRONT ENTRY

NOT TO SCALE

Pressure wash areas to remove algae and other areas of environmental contaminant from these surfaces.
Note: Environmentally friendly cleaners may be used to remove some areas of contaminants



06/15/2022

1 Work Repair– Main Elevated Entrance Landing

1. Demolition and disposal of the existing landing pavers, concrete and subfill down to the masonry structural support slab
2. Clean and prep the masonry slab
3. Install a 2" un-reinforced concrete slab. Consider adding a waterproofing admixture to the concrete. This would eliminate the waterrproofing and protection board. Consider a single concrete pour for a total thickness of 4" at the weeps. This would reduce the added weight by approximately 25 psf.
4. Install an applied single component, rapid curing, fluid applied elastomeric waterproofing membrane over un-reinforced concrete slab per manufacturer's recommendations
5. Install protection board and 1" foam density board
6. Install a 4" thick colored concrete slab with wire mesh reinforcement. Gently slope the landing slab toward existing weeps.
7. Tool joints to desirable pattern per ACI standards. Add one sawcut control joint at center.

2 Repair – Stair Repairs Right Side

1. Saw cut a geometrically regular perimeter around affected area and remove deteriorated concrete down to a solid substrate.
2. Preparation of concrete surface and mechanical means and methods
   a. Concrete Surface – Remove all dirt, oil, grease and all bond-inhibiting materials by high pressure water blasting with a minimum surface profile of plus or minus 1/16" (CSP-5)
3. Final Surface Preparation by mechanical means and methods, i.e., pressure washing.
   a.This process ensures concrete substrate to saturated surface dry (SSD)
4. Form treads
5. Install reinforcement.
6. Apply a bonding agent scrub into the substrate and around exposed steel.
   a.Avoid letting the bonding agent dry out before the application of the repair material.
7. Installation of overhead repair material per manufacturer's recommendations
8. Cure material using wet burlap and/or other approved means and methods per the manufacturer's recommendations.
9. Removal of tread forms

3 Repair– Stair Repairs Left Side

1. Saw cut a geometrically regular perimeter around affected area and remove deteriorated concrete down to a solid substrate.
2. Preparation of concrete surface and mechanical means and methods
   a. Concrete Surface – Remove all dirt, oil, grease and all bond-inhibiting materials by high pressure water blasting with a minimum surface profile of plus or minus 1/16" (CSP-5)
3. Final Surface Preparation by mechanical means and methods, i.e., pressure washing.
   a.This process ensures concrete substrate to saturated surface dry (SSD)
4. Apply a bonding agent scrub into the substrate and around exposed steel.
   a.Avoid letting the bonding agent dry out before the application of the repair material.
5. Installation of overhead repair material per manufacturer's recommendations
6. Cure material using wet burlap and/or other approved means and methods per the manufacturer's recommendations.

4 Repair – Perimeter Sealants and Stair Treads and Risers

1. Removal of existing deteriorated sealant
2. Surface preparation by mechanical means and methods, i.e., mini grinders with abrasive blades
3. Final surface preparation
   a.Vacuum joint openings to remove all dirt, oil, grease, and all bond inhibiting materials.
   b.Solvent wipe with a white cloth
4. Install backer rod to prevent 3- point adhesion.
5. Installation of primer per manufacturer's recommendations
6. Installation of a 2- component urethane sealant per manufacturer's recommendations

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FIRST BAPTIST CHURCH FRONT ENTRY REPAIR
RALEIGH, NC

NORTH CAROLINA PROFESSIONAL SEAL 7929 ENGINEER CHARLES A. LYSAGHT
06/15/2022

5 Repair– Tuckpointing of existing mortar joints at Granite Steps and Stairs

1. Removal of existing mortar from joints
2. Surface preparation by mechanical means and methods, i.e., pressure washing.
3. Installation of mortar grout per manufacturer's recommendations

6 Repair – Cleanout Existing Stair Landing Weeps and install new scuppers

1. Removal of dirt, debris and plant growth within these weeps
2. Enlarge weep openings and install three (3) decorative scuppers

ITEM NO. 7 IS NOT PROPOSED

7 Repair – Install New Planters at curvature of Stairs on both the right and left side of the stair

1. Demo spalled [illegible] delaminating concre[illegible]or to construction of planters
2. Clean, prep and [illegible]andrail stanchio[illegible]zinc that prior to placing concrete
3. Form perimeter of [illegible]te base
4. Install # 3 rebar 12" o[illegible]r in[illegible]directions for concrete base and install vertical bars for concrete walls on 12" o[illegible]
5. Place and finish concrete b[illegible]
6. Form Planter Walls
7. Place and Finish Conc[illegible]Walls
8. Removal of Form W[illegible]
9. Waterproof bo[illegible]r walls and interio[illegible]lanter walls
10. Coat outsid[illegible]lanter walls to closely m[illegible]urrounding façade walls

Note: This i[illegible]asic concept of the planter wall co[illegible]ruction. Included with this proposal is a conceptual drawing of planter wall location. Final design to be discussed and approved by others.

8 Repair – Repair of bottom of wall at front of landing

1. This is an optional repair that was discussed during the site visit.
2. Provide temporary support for the concrete wall above, if necessary, prior to removing the section of concrete shown below. If necessary, this work can be done in sections but then there will be vertical joints where the sections intersect.
3. Cut out the concrete in the shaded area.
4. Install welded wire fabric that is epoxied into the existing foundation wall that backs up this finished wall.
5. Add forms for the new wall. The wall will extend down to the existing footing (which needs to be field verified).
6. Place and finish concrete wall. We will develop a detail at the new horizontal joint that will prevent water intrusion.
7. Coat outside of new wall to closely match wall above.