Charlotte Historic District Commission Staff Review HDC 2015-092

Application for a Certificate of Appropriateness Date: June 10, 2015

LOCAL HISTORIC DISTRICT: Fourth Ward

PROPERTY ADDRESS: 214 North Graham Street

SUMMARY OF REQUEST: Retaining Wall

APPLICANT: Roger Stacks

Details of Proposed Request

Existing Conditions

The existing site is a surface parking lot at the corner of North Graham Street and West 5th Street. The existing concrete block retaining wall is failing and needs to be replaced.

Proposal

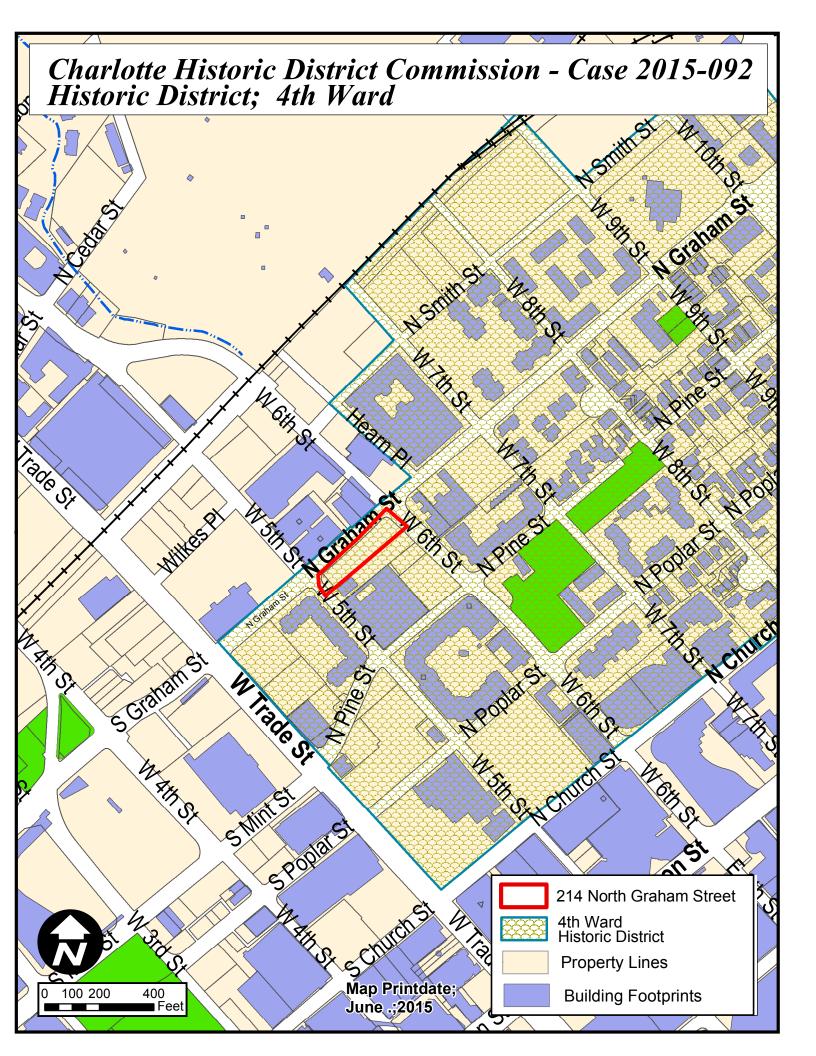
The proposal is a new retaining wall constructed of modular concrete block. Retaining walls can be approved administratively if traditional materials are used.

Policy & Design Guidelines - Landscape and Site Features, page 60

- 1. Inspiration for the design of these structures should be drawn from similar historic structures found in the Local Historic District.
- 2. Not all landscape structures are appropriate for every lot in the Local Historic District; a retaining wall is not suitable for a flat lot.
- 3. Historic precedents indicate appropriate materials such as stone, brick and concrete.
- 4. Historic site features are considered integral parts of Local Historic District properties, and cannot be removed without the review of the HDC or its Staff.
- 5. Walks and walkways in front and side yards or those that are substantially visible from the street should follow the historic design precedents of their environment.
- 6. Certain modern materials for landscape and site features are not allowed without the approval of the Historic District Commission.
 - Interlocking concrete block
 - Treated landscaping timbers
 - Railroad ties
 - Pre-fabricated lattice

Staff Analysis

The Commission will determine if an exception is appropriate for this proposal.



2012 APPENDIX B BUILDING CODE SUMMARY



Name of Project:	Retaining Wall at 5th & Graham	
		Code <u>28202</u>
-	rovide for elevation difference between two parking lots	Same Come de caleire
Owner/Authorized		<u>Epreferredparkins</u> State
Code Enforcemen		State
Project Summa		
Building descripti	ion; Segmental block retaining wall. No building involved in scope of work.	
Scope of work des Demolish and dispose	tails: (If phased construction, please see plan submittal guidelines for submit of existing trees and retaining wall. Construct new segmental block retaining wall.	tal requirements.
	t have air rights, easements, an assumed or deeded property line, no but nilar to the aforementioned? Yes No If yes, please is.	
Renovation projec	cts only: Not Applicable	
Alternative Means	s of Compliance/Engineering Judgement: Not Applicable	
☐ Industrial coni	inment with depleration decomment attached	
	ipment with declaration document attached.	
RTAP (Revisi	ons to approved plans.)	
Darie - N. C	alamat Tarka and attack	
Design Profes	sional Information	
	PROFESSIONAL: Sheats Consulting PLLC FIRM NAME LICENSE # TELEPHONE #	E-MAIL
	INCLUDE EXT	
	None ()	
Electrical	None	
	None (_)	
Mechanical	None	
Sprinkler-Standpi Structural	pe None (gary.sheats@yaho
Retaining Walls >	5' High Sheats Consulting PLLC Gary W. Sheats NC 12361 (704) 361-6311	
Other	O	
What type of work New Construct	k is being performed?	
N State Company		
M Mew College	ction:	
— ☐ Addition: (An	Existing Building that is adding heated or unheated space. This could be an	addition to the
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Allowable Height (Chapter 5) – Not Applicable

	ALLOWABLE (TABLE 503)	INCREASE FOR SPRINKLERS	SHOWN ON PLANS	CODE REFERENCE
Type of Construction	Туре		Туре	
Building Height in Feet		Feet = H + 20' =		
Building Height in Stories		Stories + 1 =		

Fire Protection Requirements (Chapter 7) – Not Required

BUILDING ELEMENT	FIRE SEPARATION DISTANCE	REQ'D	PROVIDED (W/* REDUCTION)	DETAIL # AND SHEET #	DESIGN# FOR RATED	DESIGN # FOR RATED PENETRATION	FOR RATED
Structural Frame,	(FEET)		REDUCTION		ASSEMBLY		JOINTS
including columns, girders, trusses							
Bearing Walls (see section k. (601 - 602) if rated)							
Exterior							
North							
East							
West							
South							
Interior							
Nonbearing Walls and Partitions- (see section k.(601 - 602) if rated)							
Exterior walls							
North							
East							
West							
South							
Interior walls and partitions							
Floor Construction Including supporting beams and joists							
Roof Construction Including supporting beams and joists							
Shaft Enclosures - Exit							
Shaft Enclosures - Other							
Corridor Separation							
Occupancy Separation							
Party/Fire Wall Separation							
Smoke Barrier Separation							
Tenant Separation							
Incidental Use Separation							

Emergency Lighting: (\$1006)	No Yes
Exit Signs: (\$1011)	⊠ No □ Yes
Fire Alarm: (S907, NFPA 72-07)	⊠ No □ Yes
Smoke Detection Systems: (S907)	🖾 No 🔲 Yes 🔲 Partial
Panic Hardware: (S1008.1.10)	No □ Yes

Structural Design

unuing Code vol. 9							
	Shell building	DESIGN L	OADS:				
or completion (upfit)		Im	portance Factors:	(ASCE/SEI 7-05-11.5)	Wind Snow Seismic	1.0 1.0 1.0	
ccupancy space interior completion (A	alteration / Renovation)	Liv	ve Loads:	Roof: (1603.1.2, 1603	7.11, 1611)	<u>n/a</u>	1
revious use	-			Floor: (1603.1.1, 1607.1 Live load Reductions: (1	, ,	n/a n/a	_1 _1
le		Gr	ound Snow Load:	(1608,2)		15	— I
		Wi	ind Load:	Basic Wind Speed: (160	9.3)	90	1

tion Previous use	Floor: (1603.1.1, 1607.10) n/a psf Live load Reductions: (1603.1.1, 1607.9,) n/a psf Ground Snow Load: (1608.2) 15 psf
vations projects: Not Applicable Ig Data – Not Applicable	Wind Load: Basic Wind Speed: (1609.3) Exposure Category (1609.4) Wind Base Shears (for MWFRS)(Engineer Cal's) Vx =Vy =
pe: (Table 601)	SEISMIC DESIGN CATEGORY: (1613.1, 1613.5.6) Provide the following Seismic Design Parameters: Occupancy Category: (Table 1604.5) Spectral Response Acceleration: (Engineer cal's) Site Classification (Table 1613.5.2) Data Source: A B C D III III IV
Area: Existing (sq ft) New (sq ft) Sub-Total	Basic structural system (check one) Bearing Wall Dual w/Special Moment Frame Building Frame Dual w/Intermediate R/C or Special Steel Moment Frame Inverted Pendulum Seismic base shear: (Engineer Cal's) Analysis Procedure: Simplified Equivalent Lateral Force Dynamic Architectural, Mechanical, Components anchored? Yes No
	LATERAL DESIGN CONTROL: Barthquake Wind
res / Ossumanay Classification Net Applicable	SOIL BEARING CAPACITIES: Field Test (provide copy of test report as a reference document) psf Presumptive Bearing capacity 2500 psf

Occupancy: (Chapter 3)	
Assembly (303)	□ A-1 □ A-2 □ A-3 □ A-4 □ A-5
Business (304)	В
Educational (305)	□ E
Factory (306)	☐ F-1 Moderate ☐ F-2 Low
Hazardous (307)	☐ H-1 Detonate ☐ H-2 Deflagrate ☐ H-3 Combust ☐ H-4 Health ☐ H-5 HPM
Institutional (308)	☐ I-1 ☐ I-2 ☐ I-3 ☐ I-4
I-3 Condition	
Mercantile (309)	□M
Residential (310)	□ R-1 □ R-2 □ R-3 □ R-4
Storage (311)	S-1 Moderate S-2 Low High-piled
	Parking Garage Open Enclosed Repair Garage
Utility and Miscelland	eous (312) U

	ALLOWABLE (TABLE 503)	INCREASE FOR SPRINKLERS	SHOWN ON PLANS	CODE REFERENCE
Type of Construction	Туре		Туре	
Building Height in Feet		Feet = H + 20' =		
Building Height in Stories		Stories + 1 =		

BUILDING ELEMENT	FIRE		RATING	DETAIL#	DESIGN#	DESIGN # FOR	DESIGN#
	SEPARATION DISTANCE (FEET)	REQ'D	PROVIDED (W/* REDUCTION)	AND SHEET#	FOR RATED ASSEMBLY	RATED PENETRATION	FOR RATED JOINTS
Structural Frame, including columns, girders, trusses	(PEET)		,		ASSEMBET		JOHNIS
Bearing Walls (see section k. (601 - 602) if rated)							
Exterior							
North							
East							
West							
South							
Interior							
Nonbearing Walls and Partitions- (see section k.(601 - 602) if rated)							
Exterior walls				_			
North							
East							
West							
South							
Interior walls and partitions				-			
Floor Construction Including supporting beams and joists							
Roof Construction Including supporting beams and joists							
Shaft Enclosures - Exit							
Shaft Enclosures - Other							
Corridor Separation							
Occupancy Separation							
Party/Fire Wall Separation							
Smoke Barrier Separation							
Tenant Separation							
Incidental Use Separation							

Life Safety Systems

Emergency Lighting: (\$1006) Exit Signs: (\$1011)	No ☐ YesNo ☐ Yes
Fire Alarm: (\$907, NFPA 72-07) Smoke Detection Systems: (\$907)	 No ☐ Yes No ☐ Yes ☐ Partial
Panic Hardware: (S1008.1.10)	⊠ No ☐ Yes

ESIC	N LOADS:					
	Importance Factors:	(ASCE/SEI 7-05-11.5)	Wind Snow Seismic	1.0 1.0 1.0		
	Live Loads:	Roof: (1603.1.2, 160 Floor: (1603.1.1, 1607. Live load Reductions: (10, T 1607.10)	<u>n/a</u> n/a n/a	psf psf psf	
	Ground Snow Load:	(1608.2)	(1003,11,1, 1007,7,)	15	psf psf	
	Wind Load:	Basic Wind Speed: (16 Exposure Category (16 Wind Base Shears (for	509.4)	90 B Cal's) V	mph (ASCE-7)	
ISM	IIC DESIGN CATEG	ORY: (1613.1, 1613.5.6)	ΠA	□в	·	
	the following Seismic	Design Parameters:	_ □t	— □ #1	— —	

	•		-
Site Classification (Table 1613.5.2) Data Source:	☐ A ☐ B ☐ € ☐ Field Test 🔀 I	C ⊠D ⊟E ⊟ Presumptive ⊟ Historica	F al Data
Basic structural system (check one)	_	_	
Bearing Wall	Dual w/Special Mon		
Building Frame	Dual w/Intermediate	R/C or Special Steel	
Moment Frame	Inverted Pendulum	•	
Seismic base shear: (Engineer Cal's))	V _x	V _Y =
	mplified 🔲 Equiva	alent Lateral Force	Dynamic
Atomicoural, Mochanical, Compone	and and noted! 1 cs		

Pile size, type, and capacity SPECIAL INSPECTIONS REQUIRED:

Special Inspections

SCHEDULE OF SPECIAL INSPECTIONS ■No special inspections required for this project Special inspections required

The following sheets comprise the required schedule of Special Inspections for this project. The construction divisions which require special inspections for this project are as follows:

> ☑ IT-1 Verification of Soils

☐ IT-10 Inspection of Structural Steel Fabricators ☐ IT-11 Structural Masonry

☐ IT-3 Piling and Drilling Piers

IT-4 Modular Retaining Walls IT-5 Reinforced Concrete ☐ IT-6 Post Tension Slab

☐ IT-7 Pre-cast Concrete Erection ☐ IT-8 Pre-stressed Concrete

☐ IT-12 Welding ☐ IT-13 High Strength Bolts & Steel Framing Insp. IT-14 Sprayed Fire-Resistance Materials

IT-19 Special Cases

IT-15 Exterior Insulation and Finish system ☐ IT-16 Seismic Resistance IT-17 Smoke Control ☐ IT-9 Inspection of Pre-Cast Fabricators ☐ IT-18 Detention Basin

Check the above boxes for the special inspection required for this project and list below specific special inspections required under Chapter 17. For questions regarding Special Inspections please see www.Meck-SI.com.

IT-1	VERI	FICATION OF SOILS						
CHE	CK IF UIRED	INSPECTION TASK (Standard & Code Referenc	e) CONTINU	OUS ONS	PE INSF	ERIODIC PECTIONS	SPECIAL INSPECTIONS FIRM	NOTES & SCOPE
		fication of Soils, 1704.7 & pter 18 NCSBC						Inspections not required for fills less than 12". Inspect site preparation material compliance, lifthickness, and in-place density are in conformance with the geotech report and the contract documents.

CHECK IF REQUIRED	INSPECTION TASK (Standard & Code Reference)	CONTINUOUS INSPECTIONS	PE INSF	ERIODIC PECTIONS	SPECIAL INSPECTIONS FIRM	NOTES & SCOPE	
Excave Section	ation and Filling, NCSBC n 1704.7 and 3304					Compact backfill soil to 95% Standard Proctor (ASTM D698), with the top foot of fill beneatl walk slab compacted to 98% Standard Proctor. Test for compliance at first lift and at 32" intervals of depth in reinforced soil zone.	

IT-4 MODULAR RETAINING WALLS

CHECK IF REQUIRED	INSPECTION TASK (Standard & Code Reference)	CONTINUOUS INSPECTIONS	PE INSP	RIODIC ECTIONS	SPECIAL INSPECTIONS FIRM	NOTES & SCOPE
	ar Retaining Walls, NCSBC on 1610 and 1704.13					Inspect joints and GEO fabric installation where wall height exceeds 5 feet.



www.meck-si.com **Statement of Special Inspections**

Statement Date: October 13, 2014

Project Name: Retaining Wall for Preferred Parking Building Permit Number: Project Address: 420 West 5th Street, Charlotte, NC

information posted on meck-si.com, and update said information within 10 days.

Registered Design Professional in Responsible Charge (RDPIRC): Gary W. Sheats, PE The following information is being submitted in accordance with the Special Inspection provisions of the North Carolina State Building Code. Attached is the Schedule of Special Inspections (SSI) required for this project. This completed form is required to be placed on the drawings for plan review. After permit issuance, a listing of the Special Inspection Firms (SIF) and the Designated Special Inspectors (DSI) for each inspection type will be attached to this form and

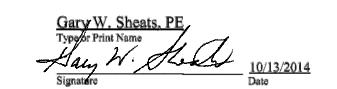
This and all subsequent reports, logs, testing results, and other related SI documents shall be uploaded to the meck-si.com website within 10 business days of the event documented. Only documents that are prepared by Authorized Special Inspectors (ASI), and signed/sealed by Designated Special Inspectors (DSI) are valid and are permitted to be uploaded to the meck-si.com website. The DSI will notify the Department upon the discovery of information that would controvert the result of any

uploaded to www.meck-si.com prior to scheduling the Pre-Construction Meeting with Mecklenburg County Code Enforcement. No work is permitted to be performed prior to the Special Inspections Pre-Construction Meeting (see the meck-si.com website for

The DSI is responsible for verifying all information on each document prior to signing/sealing and uploading it. The DSI is responsible for verifying each document that is uploaded and stored on the meck-si.com website, is the correct document and it is associated with the correct attributes for storage in the database on meck-si.com. The DSI is responsible for deleting any documents that have incorrect attributes or contain errors, and reloading the correct information or document onto meck-si.com. The DSI is responsible for verifying all ASIs maintain current certifications during the course of the project, as failure to maintain current certifications may result in a voided document. At the conclusion of each individual Special Inspection type, the DSI will complete a Final Report and upload it to the meck-si.com website. The RDPIRC is responsible for completing the RDPIRC Letter at the conclusion of all Special Inspections.

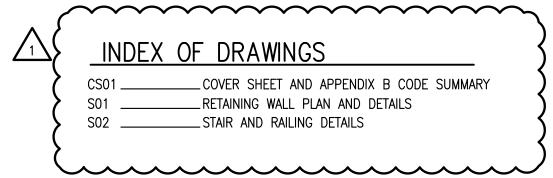
The Special Inspection program outlined herein, does not relieve the Contractor or any other entity of any contractual duties, including quality control, quality assurance, or safety. The Contractor is solely responsible for construction means, methods, and job site safety. Failure to adhere to the SI program as outlined herein, and on meck-si.com, may result in a stop work notice being issued by the Department.

Respectfully submitted, The Registered Design Professional in Responsible Charge,





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1	ADD INDEX OF DRAWINGS	DD	GWS	3-30-15
0	APPROVED FOR CONSTRUCTION	DD	GWS	10-13-14
REV	DESCRIPTION	DRAWN	CHECKED	DATE

SHEATS CONSULTING, PLLC PROFESSIONAL ENGINEERING SERVICÉS

PO BOX 470171 CHARLOTTE, NC 28247

10-13-14 TITLE APPENDIX B CHECKED BY G.W.SHEATS 3-30-15 STATEMENT OF SPECIAL INSPECTIONS APPROVED BY SCALE: AS NOTED

AUTHORIZATION LICENSE NUMBER P-1348 SEAL

3-30-15

