2012 APPENDIX B **BUILDING CODE SUMMARY** FOR ALL COMMERCIAL PROJECTS

Name of Project: Patio Addition to the Phi Gamma Delta House Address: 108 W. Cameron Ave., Chapel Hill, NC, 27514 Proposed Use: Addition to existing structure Owner/Authorized Agent: Jack Haggerty, Architect; 205 W. Main St.; Carrboro NC 919 967-5191 jack@jackhaggertyarchitect.com Owned By: **Private**

Code Enforcement Jurisdiction Town of Chapel Hill

LEAD DESIGN PROFESSIONAL: Jack Haggerty, Architect DESIGNER FIRM NAME LICENSE# TELEPHONE# E-MAIL Architectural; Jack Haggerty, Architect Jack Haggerty 51782 / 6892 919-967-5191 jack@jackhaggertyarchitect.cc Electrical: Alamance Consulting Eng. G. Kevin Bengal 25043 336-449-4558 alamance@ace-nc.net Fire Alarm: Alamance Consulting Eng. G. Kevin Bengal 25043 336-449-4558 alamance@ace-nc.net Sprinkler-to be submitted under separate permit Rob Munach 19339 919-542-7578 rob@robmunachpe.com Structural: Excel Engineering 2012 EDITION OF NC CODE FOR: X Addition **EXISTING:** □ Reconstruction □ Alteration □ Repair CONSTRUCTED ORIGINAL USE RENOVATED CURRENT USE **BUILDING DATA** □ III-A □ V-A **Construction Type:** □ V-B □ II-B X III-B □ No □ Yes Types _ Mixed construction: X Yes \square NFPA 13 \square NFPA 13R \square NFPA 13D □ No □ Yes Class □ I □ II □ III □ Wet □ Dry Fire District: X No Flood Hazard Area: X No **Building Height:** 48' Number of Stories: 4 **Mezzanine:** X No **Gross Building Area:** NEW (SQ FT) SUB-TOTAL 3rd Floor 2,372 2nd Floor 1st Floor 1.044 unhtd.

ALLOWABLE AREA

1,044 unhtd.

No new htd. sq.f.t.

 \square A-1 \square A-2 \square A-3 \square A-4 \square A-5 Factory ☐ F-1 Moderate ☐ F-2 Low ☐ Educational Business ☐ H-1 Detonate ☐ H-2 Deflagrate ☐ H-3 Combust ☐ H-4 Health ☐ H-5 HPM Hazardous □ I-1 □ I-2 □ I-3 □ I-4 I-3 Condition \Box 1 \Box 2 \Box 3 \Box 4 \Box 5 Residential \square R-1 **X R-2** \square R-3 \square R-4 ☐ Mercantile Storage S-1 Moderate ☐ S-2 Low ☐ High-piled

☐ Utility and Miscellaneous ☐ Parking Garage ☐ Open ☐ Enclosed ☐ Repair Garage Secondary Occupancy: N/A

Special Uses: N/A – 419 Group R-2 but no effect on dwelling units Special Provisions: N/A

3038.5

Mixed Occupancy: N/A

ALLOWABLE HEIGHT AREA INCREASE NO HEIGHT OR AREA INCREASE IS REQUIRED OR REQUIRED

FIRE PROTECTION REQUIREMENTS

Life Safety Plan Sheet #, if Provided A-2, PLAN Information below is for addition shown in drawings.

BUILDING ELEMENT	FIRE RATING		DETAIL#	DESIGN#	DESIGN # FOR DESIGN		
	SEPARATION	REQ'D	PROVIDED	AND	FOR	RATED	FOR
	DISTANCE		(w/*	SHEET #	RATED	PENETRATION	RATED
	(FEET)		REDUCTION)		ASSEMBLY		JOINTS
Structural Frame,							
including columns, girders,							
trusses							
Bearing Walls							
Exterior							
North							
East	27'	1					
West	30'	1					
South	70'	1					
Interior							
Nonbearing Walls and Partitions							
Exterior walls							
North							
East							
West							
South							
Interior walls and partitions		0					
		0					
Floor Construction							
Including supporting beams							
and joists							
Roof Construction							1
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 SYSTEM REQUIREMENTS

 \square No X Yes Emergency Lighting: □ No X Yes Exit Signs: Fire Alarm: \square No X Yes X No Yes Partial _____ Smoke Detection Systems: Panic Hardware: X No Yes

EXIT REQUIREMENTS

NUMBER AND ARRANGEMENT OF EXITS

FLOOR, ROOM OR	MINIMUM ²		TRAVEL DISTAN	ARRANGEMENT MEANS OF		
SPACE DESIGNATION	NUMBER OF EXITS			EGRESS ^{1,3} (SECTION 1015.2)		
	REQUIRED	SHOWN	ALLOWABLE TRAVEL	ACTUAL	REQUIRED	ACTUAL
		ON PLANS	DISTANCE	TRAVEL	DISTANCE	DISTANCE
			(TABLE 1015.1)	DISTANCE	BETWEEN	SHOWN ON
				SHOWN ON	EXIT DOORS	PLANS
				PLANS		
SCREENED	2	2	250'	20'	SEE PLAN	SEE PLAN
ENCLOSURE						
RAISED PATIO	1	1	250'	35'		
ENCLOSURE	2	ON PLANS 2	(TABLE 1015.1) 250'	DISTANCE SHOWN ON PLANS 20'	BETWEEN EXIT DOORS	SHOWN PLANS

¹ Corridor dead ends (Section 1017.3)

Buildings with single exits (Table 1019.2), Spaces with one means of egress (Table 1015.1) Common Path of Travel (Section 1014.3)

EXIT WIDTH

USE GROUP OR SPACE	(a)	(b)		((c)		EXIT WIDT	H (in) ^{2,3,4,5,6}	
DESCRIPTION	AREA ¹ sq. ft.	AREA ¹ PER OCCUPANT (TABLE 1004.1.1)	CALCULATED OCCUPANT LOAD (a÷b)	PER OC	S WIDTH CCUPANT (1005.1)	(SECTION	ED WIDTH N 1005.1) D) x c	ACTUAL V SHOWN O	
		1004.1.1)		STAIR	LEVEL	STAIR	LEVEL	STAIR	LEVEL
PATIO	1,044	200 GROSS	49		.2"		20"		70"

¹ See Table 1004.1.1 to determine whether net or gross area is applicable. See definition "Area, Gross" and "Area, Net" (Section 1002)

Minimum stairway width (Section 1009.1); min. corridor width (Section 1017.2); min. door width (Section 1008.1)

Minimum width of exit passageway (Section 1021.2)

⁴ See Section 1004.5 for converging exits. ⁵ The loss of one means of egress shall not reduce the available capacity to less than 50 percent of the total required (Section

⁶ Assembly occupancies (Section 1025)

STRUCTURAL DESIGN DESIGN LOADS:				
Importance Factors:				
Live Loads:	Roof psf Mezzanine psf Floor psf			
Ground Snow Load:	10psf			
E	Basic Wind Speed90 mph (ASCE-7) Exposure CategoryB Wind Base Shears (for MWFRS)			

SEISMIC DESIGN CATEGORY	\Box A	\square B	\boxtimes C	\Box D		
Provide the following Seismic Design Para	meters:					
Occupancy Category (Table 160		□I	⊠ II		\square IV	
Spectral Response Acceleration						
Site Classification						
Basic structural system (check o				1		
Bearing Wall	,	Dual w/s	Special M	oment Fra	ame	
Bearing Wall Building Frame		Dual w/	Intermedia	ate R/C or	Special Steel	
Moment Frame	X	Inverte	ed Pendul	um	1	
Seismic base shear $V_x =$	2.0	$V_{\rm v} =$	2.0			
Analysis Procedure					t Lateral Force	Moda
Architectural, Mechanical, Con						
LATERAL DESIGN CONTROL:	Eartho	quake		Wind _	_X	
SOIL BEARING CAPACITIES:						
Field Test (provide copy of test re Presumptive Bearing capacity _	port)			psf		
Presumptive Bearing capacity _			_2000	1	osf	
Pile size, type, and capacity						

PLUMBING FIXTURE REQUIREMENTS

NO OCCUPANT INCREASE

ACCESSIBLE PARKING

LOT OR PARKING	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE	TOTAL#	
AREA	REQUIRED	PROVIDED	REGULAR WITH 5'	VAN SPACES WITH 8'	ACCESSIBLE
			ACCESS AISLE	ACCESS AISLE	PROVIDED
PARKING IN REAR OF BLDG.	8-12	9		1	1
TOTAL					

General Notes

The scope of work shall include all labor, materials, equipment, temporary services (including toilet, space heating, generators, etc.) building and other permits and fees necessary to complete the job as shown on these documents.

All Work shall conform to all applicable State and Local Codes, Regulations and Ordinances, and shall be constructed to the highest standards of craftsmanship by properly licensed and qualified Subcontractors of the respective trades. All defective work shall be reconstructed to the approval of the Architect at no cost to the Owner. It shall be the Contractor's responsibility to report any code or workmanship discrepancies to the Owner before proceeding with the Work; otherwise, it is assumed that the represented conditions are accurate and satisfactory, and that the Work can be performed as indicated in the Construction

All equipment and materials shall be installed according to manufacturers' instructions unless noted otherwise. The Contractor shall provide the owner with a one year warranty on all workmanship and materials., with such warranty beginning at the date of Substantial Completion.

If any material is discovered during excavation or demolition which is in any way considered to contain asbestos or other hazardous or toxic material, construction shall be stopped immediately and the condition reported to Owner.

Drawings shall not be scaled. If there is a descrepancy or absent dimension, contact Architect for clarification.

The Contractor shall take all reasonable precautions to minimize water entering building during construction, and that the building and site remain secure and safe at all times, providing all necessary components for construction safety, care of adjacent existing property and construction. The Contractor shall comply with all County, State and Federal Regulations

General Contractor shall keep job site clean, free of trash and orderly. Work area, interior and exterior, shall be cleaned at end of project.

All new construction shall be plumb, straight and square., and in proper alignment. General Contractor shall protect all existing construction and finishes to remain, and shall repair any that are disturbed by his operations.

General Contractor shall engage qualified sprinkler contractor for design and extension of sprinklers to Basement ceiling. Piping to sprinkler shall be above ceiling. Sprinkler cost and associated construction shall be included in General contractor's proposal.

General Site Notes

General Contractor shall coordinate w/ Owner on location for material

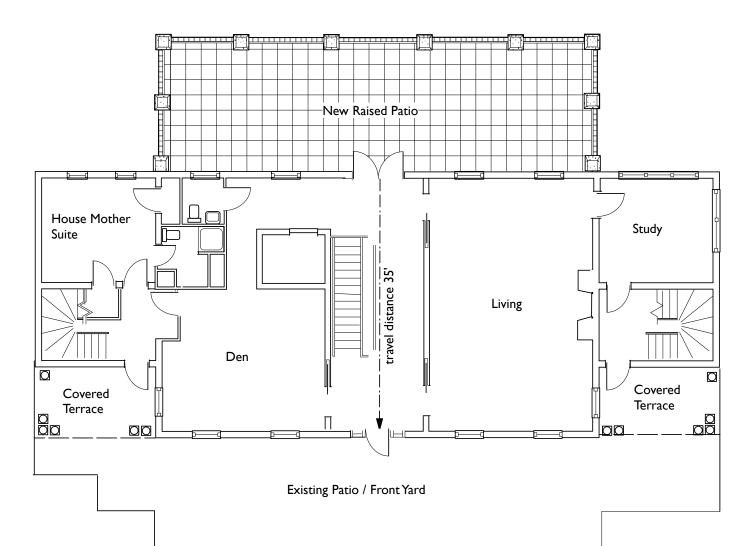
Erosion Control: Contractor shall do all that is possible to minimize soil erosion and siltation caused by his operations. He shall comply with all applicable Town of Chapel Hill regulations relating to erosion prevention

Earth Excavation: Footing trenches shall extend into adequate bearing soil a minimum of 6", and be a minimum of 12" below finish grade or as indicated on drawings. Provide fences, barricades or any other safety devices around all open trenches, excavations or any other hazardous area. Protect all graded and excavated areas from traffic and erosion.

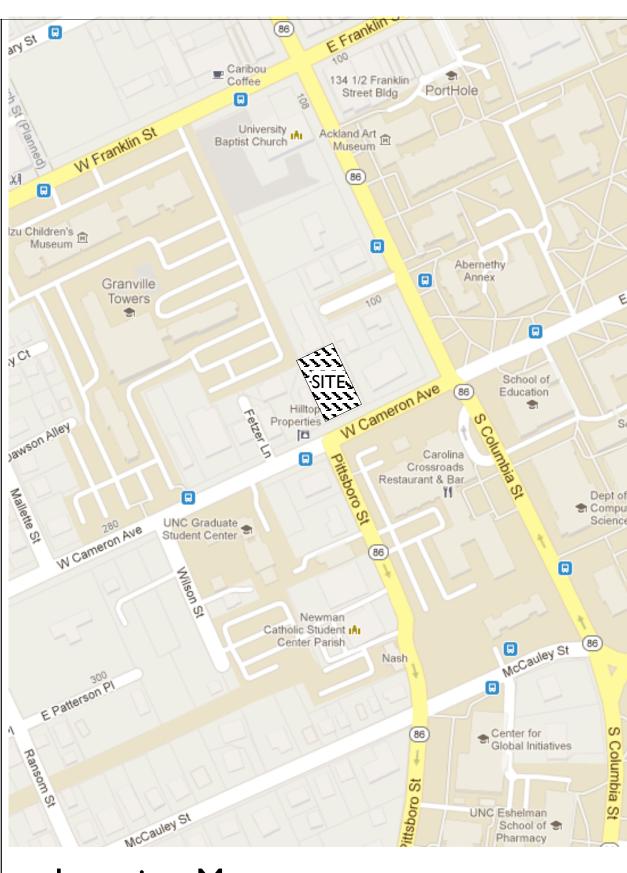
General Contractor shall protect all existing construction to remain.

Termite Treatment shall be according to N.C. State Building Code.

All plantings shall have I year warranty.



First Floor Life Safety Plan



Location Map

Project Team

Jack Haggerty, Architect - Designer

Alamance Engineers- Plumbing, Mechanical, Electrical & Fire Alarm

Rob Munach, P.E. - Structural Design

Sheet Index

a drawing for extension of sprinkler system will be supplied by sprinkler contractor

COVER - Appendix B

A-I - Site Plans, New & Exist.; Demolition Plan

A-2 - Raised Patio and Screened Enclosure Plan

A-3 - Drain Plan; Reflected Ceiling Plan

A-4 - North Elevation

A-5 - West Elevation; Details

A-6 - Section and Elevation Details

S-I - Structural Plan and Details (Excel Engineering)

P-I - Patio Drain Plan (Alamance Consulting Engineers)

E-I - Lighting Plan (Alamance Consulting Engineers)

E-2- Electrical Plan (Alamance Consulting Engineers)

E-3- Panel Schedule & Notes (Alamance Consulting Engineers)

FA-I- Fire Alarm Plan (Alamance Consulting Engineers)

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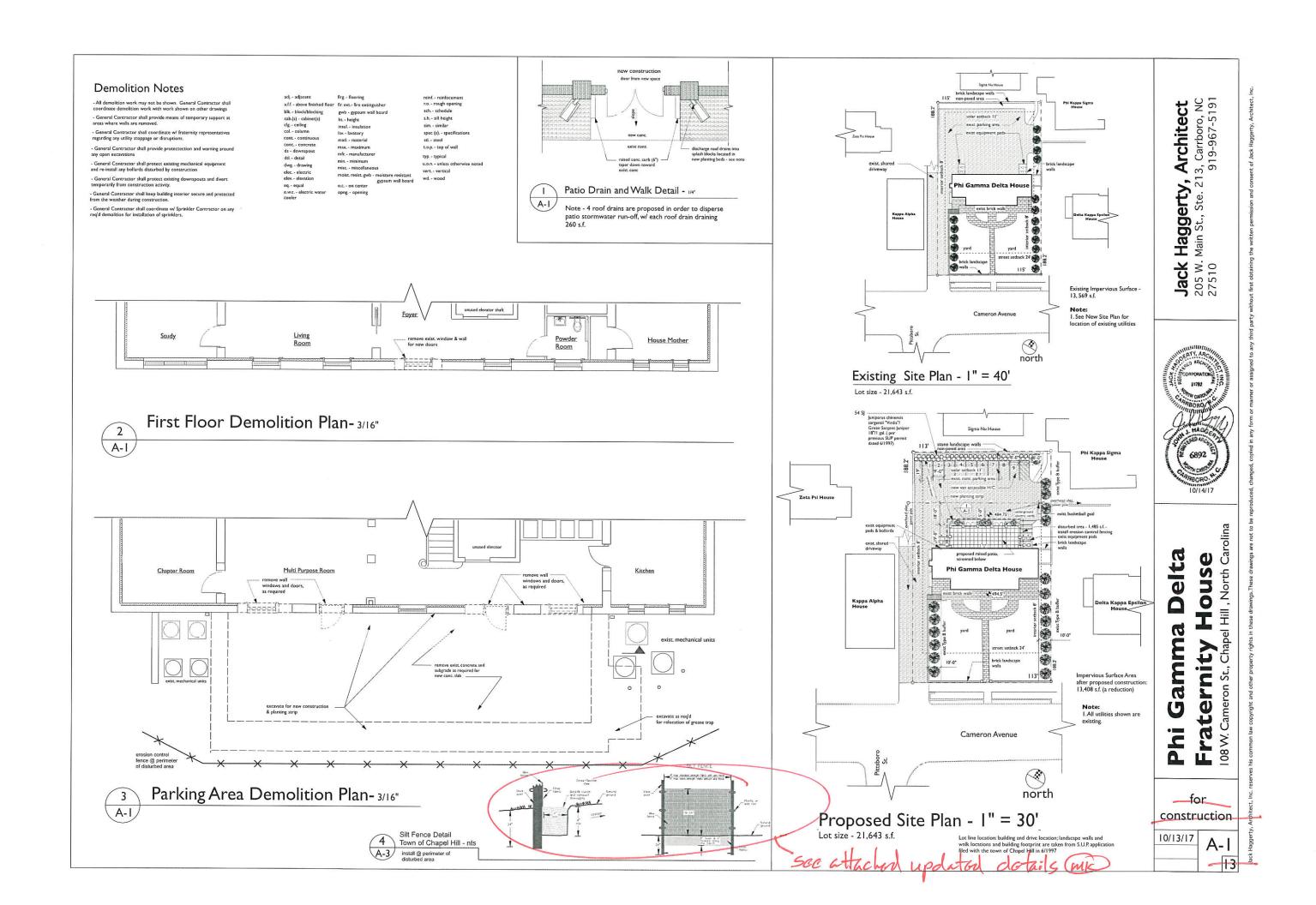
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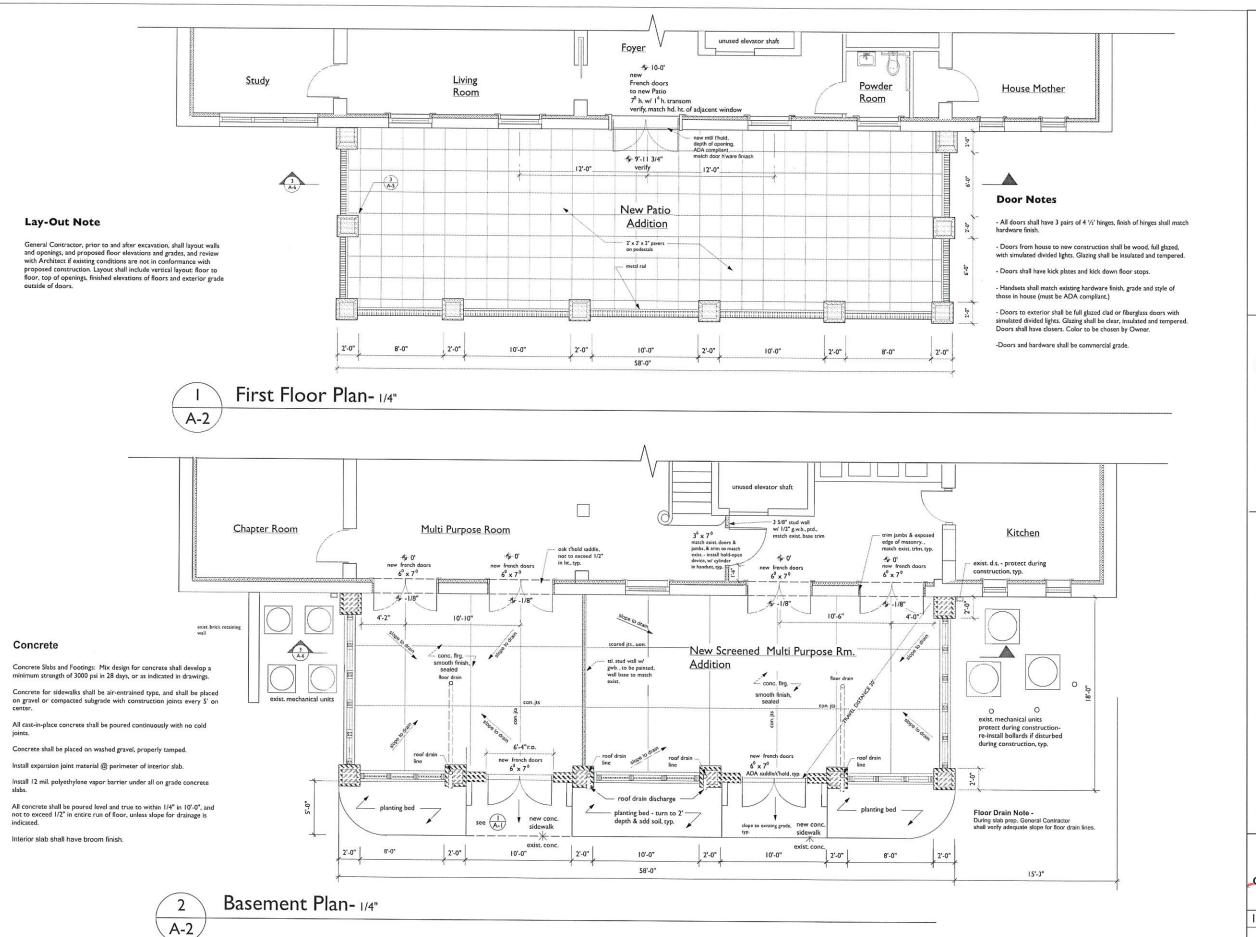
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COVER

October 13, 2017

I of I3





Architect Inc. . 213, Carrboro, NC 919-967-5191

Jack Haggerty, A 205 W. Main St., Ste. 2 27510

Delta Fraternity House 108 W. Cameron St., Chapel Hill, North Car Gamma Phi

for construction

10/13/17

Masonry

All masonry work shall comply with recommendations of the Brick Institute of America and the Carolinas Concrete Masonry

Concrete Masonry Units (CMU): Provide manufacturer's standard units as indicated on Drawings. Provide units complying with ASTM C 90, Grade N-1.

Mortar for Unit Masonry: Provide commercial mortar mix, type "S", for all exposed brick and CMU masonry work.

Brick shall match brick at fraternity house in size, color and texture. Brick bond shall match that of brick at the same building. Provide sample for owner review prior to ordering.

Layout walls in advance for accurate spacing of bond patterns, with uniform joint widths and to properly locate openings.

Clean mortar from all walls as work progresses. At the end of the job clean masonry walls with stiff brushes and cleaning compound as recommended by the manufacturer.

General Contractor and Masonry Contractor shall coordinate on work to be installed in masonry – See electrical and architectural plans.

Aluminum Railing Note

Railings at Patio shall be by Superior Aluminum Products, Inc., Series 9100.

Rail height shall be 36", with double top rail and ring inserts.

Rails shall be side-mounted, with intermediate heavy-duty base mounts. All rail components shall be by Superior Aluminum Products, Inc.

Finish shall be dark bronze.

Location of anchor-verticals and bases are schematic. Manufacturer shall determine number and location of anchor verticals and mounting bases based on support required for rails and length of rail run.

Exterior Finish Notes

- Exterior brick walls shall be sealed with clear sealant.

- Sealer shall be silane/siloxane based.

- Brick shall be clean and dry before application of sealant. - apply per manufacturer's instructions.

Screening Frames
- Pressure treated material shall be stained with a solid

color stain.

-Prep surface and apply stain per manufacturer's recommendation.

-Color to be chosen by Owner.



North Elevation - 1/4"

_forconstruction

Architect Inc. 213, Carrboro, NC 919-967-5191

Jack Haggerty, ∤ 205 W. Main St., Ste. 2 27510

Oct. 13, 2017

10/13/17

Fraternity House
108 W. Cameron St., Chapel Hill , North Carolina

Delta

Gamma

Phi

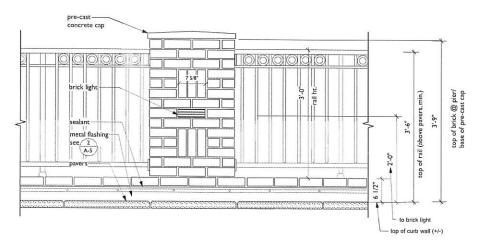
3/4" plywd. decking -See note on I/A-3 regarding slope of shimmed deck

A-5

Flashing @ Existing House Wall - 1 1/2"

Flashing @ Patio Curb - 1 1/2"

Rail note - No opening in railing system shall esceed 3 7/8"

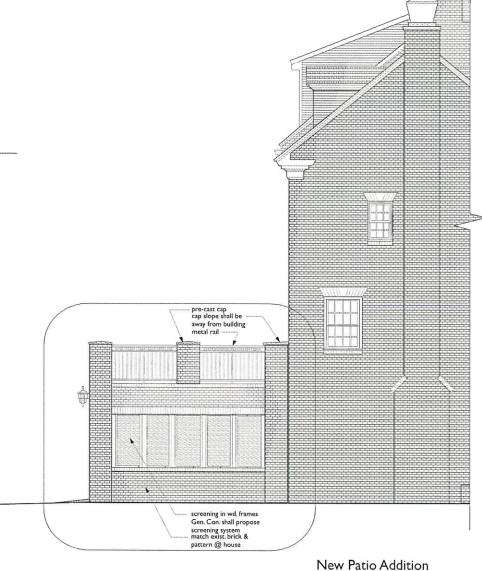


A-5

Piers @ Patio - 1"

Paver and Pedestal System shall be Terra-Stand Pedestal system by Tectura Designs and Wausau. Installation shall include all components necessary for system – spacers (3/16"), Terra-Tabs, shims, waffle reducers and pedestals and any other required components. Pavers shall be by Tectura Design Pavers, and shall be compatible with pedestal system. Color of pavers to be selected by Owner from manufacturer's standard palette, allow for two colors in checkerboard pattern Contractor experienced with pedestal/paver system shall install system.

Waterproof Membrane Note: General Contractor shall consult with Paving/Pedestal System Contractor and Roofing Contractor on roofing membrane recommendation – type of membrane, thickness, type of protective cover sheet and required slope for membrane drainage. Roofing membrane shall be compatible with paver/pedestal system and roofing substrate. Coordinate roofing membrane installation with roof drains, scuppers and perimeter flashing to achieve water-tight installation.





West Elevation - 1/4"

Note: East Elevation of Raised Patio is identical to the West Elevation

for construction

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Oct. 13, 2017

A-5

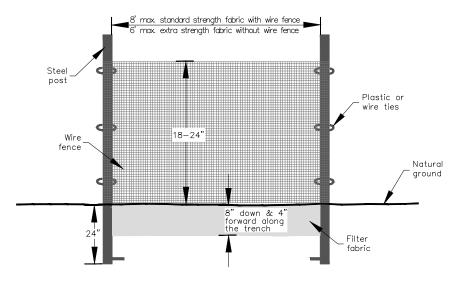
Fraternity House
108 W. Cameron St., Chapel Hill , North Carolina

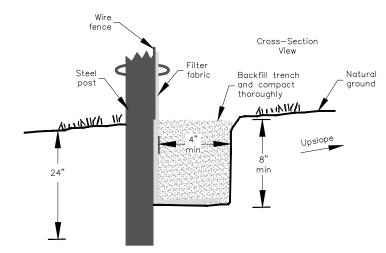
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SILT FENCE





NOTE: DRAWING NOT TO SCALE

GENERAL NOTES:

- 1. Use silt fence only when drainage area does not exceed $\frac{1}{4}$ acre and never in areas of concentrated flow.
- 2. Silt fence shall not be removed unless site is stabilized and inspected by Town of Chapel Hill staff.

TITLE:	REVISIONS		DET. NO.	
SILT FENCE	08/13	15	SD-18	

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