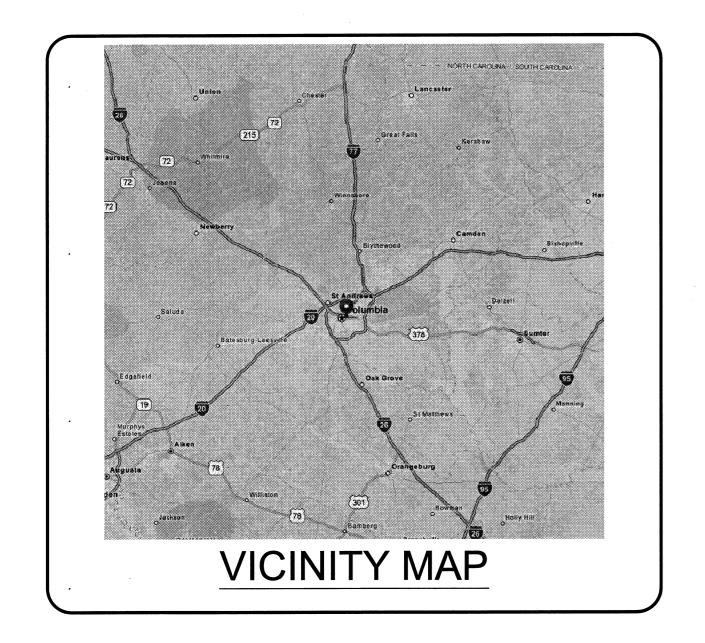
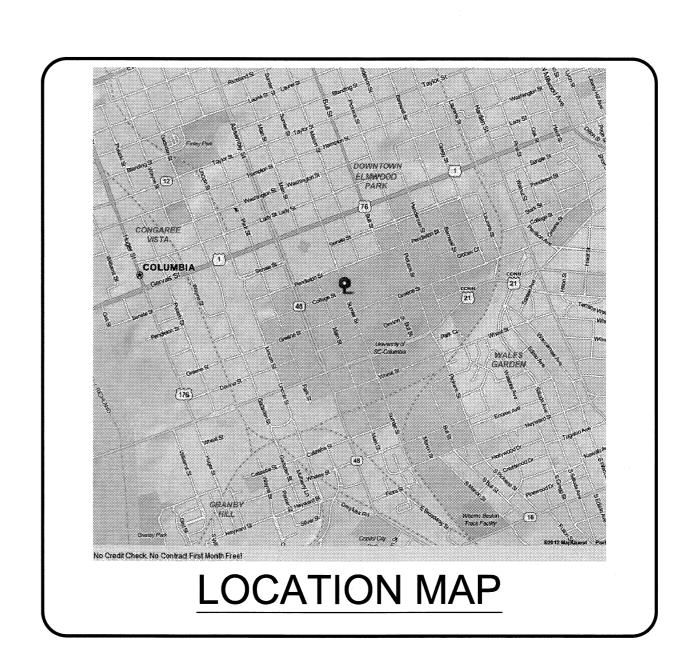
# RE-ROOF PROJECT JAMES F. BYRNES CENTER UNIVERSITY OF SOUTH CAROLINA 901 SUMTER STREET COLUMBIA, SOUTH CAROLINA 29201

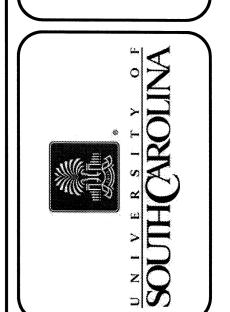


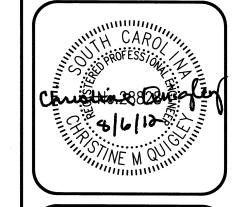


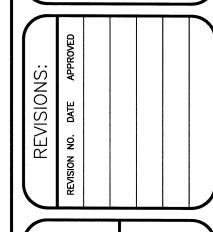
# INDEX OF DRAWINGS

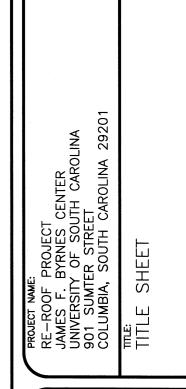
T100 TITLE SHEET
T101 CAMPUS MAP
T102 CODE SHEET
R100 ROOF PLAN
R200 ROOF DETAILS
R201 ROOF DETAILS
R202 ROOF DETAILS
R203 ROOF ANCHOR DETAILS
R204 ROOF ANCHOR DETAILS

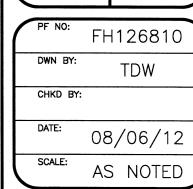




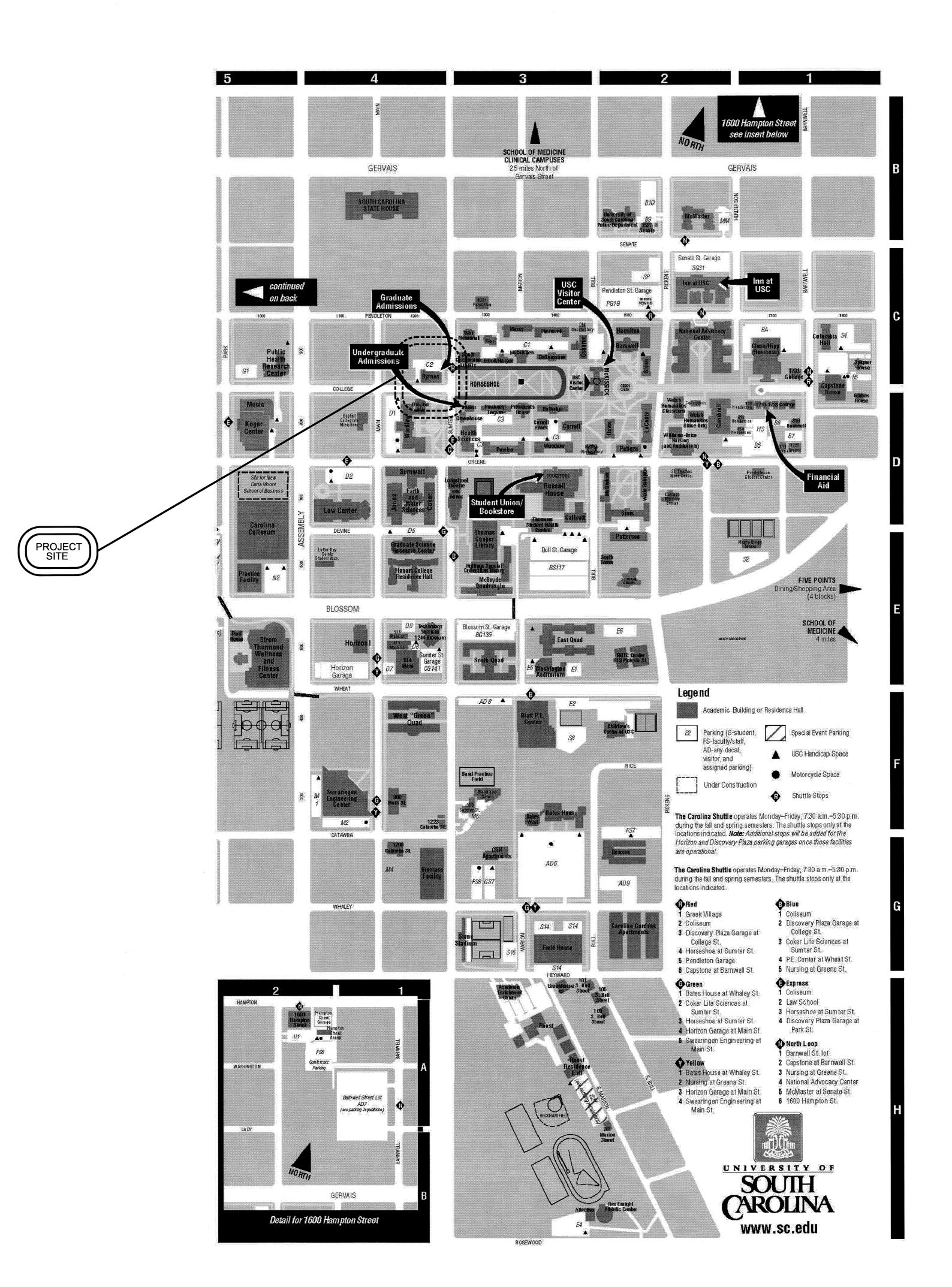


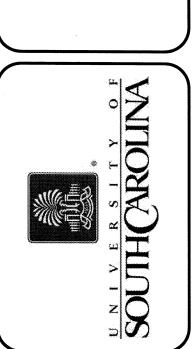






T100







REVISION NO. DATE APPROVED

E-ROOF PROJECT
MES F. BYRNES CENTER
NIVERSITY OF SOUTH CAROLINA
11 SUMTER STREET
DLUMBIA, SOUTH CAROLINA 29201
LE:
AMPUS MAP

PF NO: FH126810

DWN BY: TDW

CHKD BY:

DATE: 08/06/12

SCALE: AS NOTED

SHEET

T101

ARRANGEMENT MEANS OF

DISTANCE

BETWEEN

EXIT DOORS

N/A

EXIT WIDTH  $(in)^{2,3,4,5,6}$ 

(SECTION 1003.2.3) SHOWN ON PLANS

EGRESS WIDTH REQUIRED WIDTH ACTUAL WIDTH

N/A N/A N/A N/A

N/A N/A

N/A N/A

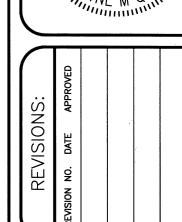
EGRESS 1,3 (SECTION 1004.1)

DISTANCE

N/A

N/A

N/A N/A



ECT NAME:
-ROOF PROJECT
ES F. BYRNES CENT
VERSITY OF SOUTH (
SUMTER STREET
UMBIA, SOUTH CARO RE-F JAME UNIVE 901

FH126810 CHKD BY: 08/06/12

SCALE: AS NOTED

SHEET

# NO CHANGE 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:JAMES F. BYRNES CENTER RE-ROOFING PROJECT	
Address: 901 SUMTER STREET COLUMBIA, SOUTH CAROLINA 29201	
Proposed Use: N/A	
Owner or Authorized Agent: UNIVERSITY OF SOUTH CAROLINA	Phone # <u>N/A</u>
Owned By: USC City/County	□Private □State
Code Enforcement Jurisdiction:	County <u>N/A</u>

APPENDIX B

DESIGNER FIRM		NAME	LICENSE #	TELEPHONE #
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	N/A	N/A	N/A	(N/A) N/A
Retaining Walls >5' High	N/A	N/A	N/A	(N/A) N/A
Other STAFFORD CONSUL		LOUIS T. HALL	021987	(704) 597-9000

YEAR EDITION				vioting [	Pida)	Upfit		Alteration
∐New Con	struction	L	Renovation (E	xisting	siag)	□орпс		Arteration
BUILDING DAT	ГА						•	
Construction	Туре:	□ I-A	□ I-B	□ I	I–A	□ II-B	□ III−A	□ III−B
		□ IV	□ V-A		/ <b>-</b> B			
		Mixed cons	truction:		No	☐ Yes	Types <u>N/A</u>	\
Sprinklers:	☐ No	☐Yes	□ NFPA	13	☐ NFPA	. 13R	□NFPA 13D	
Standpipes:	☐ No	☐Yes	Class 🗌 I			☐ Wet	☐ Dry	
Fire District:		☐Yes						
Building Heig	ht: <u>N/A</u>	<u> </u>	_ Feet <u>N/A</u>	Num	ber of S	Stories [	]Unlimited per_	N/A
Mezzanine:	☐ No	☐Yes						
High Rise:	☐ No	☐Yes	Cent	ral Refe	rence S	heet # (if pr	ovided) <u>N/A</u>	
Gross Buildin	g Area:							
FLOOR		EXISTING	(SQ FT)		NEW	(SQ FT)		SUB-TOTAL
6th Floor		N/A			N	I/A		N/A
5th Floor		N/A			1	I/A		N/A
4th Floor		N/A			١	I/A		N/A
3rd Floor		N/A			١	I/A		N/A
2nd Floor		N/A			١	I/A	-	N/A
Mezzanine		N/A			١	I/A		N/A
1st Floor		N/A			1	I/A		N/A

# ALLOWABLE AREA

Primary Occupancy:	☐ Assembly	□ A-1	□ A-2		□ A-3	□ A-4	□ A-5
☐ Business	☐ Educational	☐ Factory-Indust	rial		☐ F-1	☐ F-2	
☐ High—Hazard	☐ H-1	☐ H-2	□ H-3		☐ H-4	□ H-5	
☐ Institutional	☐ I-1	□ I-2	□ I-3		□ I-4		
J	-3 Use Condition	n 🔲 1	□ 2	□ 3	□4 □5		
☐ Mercantile	☐ Residential	□ R-1	□ R-2	□ R-3	☐ R-4		
☐ Storage	☐ S-1	☐ S-2	☐ High−pi	iled			

☐ Utility and M	discellaneous	Parking	Garage 🗌 Ope	en	☐ Enclosed	Repair	
Secondary Occupancy Special Occupancy:	: N/A □ 508.2	□508.3	□508.4	□508.5	□508.6	□ 508.7	
Mixed Occupancy:	□ No	☐Yes		Hr.			

construction, so determined, shall apply to the entire building.

Actual Area of Occupancy A
Allowable Area of Occupancy A

508.8 Non-Separated Mixed Occupancy (303.1 Exception) The required type of construction for the building shall be determined by applying the height and area

☐ Separated Mixed Occupancy (303.1/303.2) — 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.

Actual Area of Occupancy B \_ ≤1

limitations for each of the applicable occupancies to the entire building. The most restrictive type of

	N/A N/A		– T <del>–  </del>	/A /A		+ = <del></del>	<u>/A</u> ≤1.0
TORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 503 <sup>5</sup> AREA	(C) AREA FOR OPEN SPACE INCREASE <sup>1</sup>	(D) AREA FOR SPRINKLER INCREASE <sup>2</sup>	(E) ALLOWABLE AREA OR UNLIMITED <sup>3</sup>	(F) MAXIMUM BUILDING AREA <sup>4</sup>
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

•	STORY NO.	AND USE	PER STORY (ACTUAL)	AREA	OPEN SPACE INCREASE 1	SPRINKLER INCREASE <sup>2</sup>	AREA OR UNLIMITED <sup>3</sup>	BUILDING AREA <sup>4</sup>
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

<sup>1</sup> Open space area increases from Section 506.2 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = $\frac{N/A}{}$ (F)
b. Total Building Perimeter = \frac{\hat{N/A}}{} (P)

c. Ratio (F/P) = N/A (F/P)d. W = Minimum width of public way = \_\_\_\_\_ (W) e. Percent of frontage increase  $I_f = 100 [F/P - 0.25] \times W/30 = N/A$  (%) <sup>2</sup> The sprinkler increase per Section 506.3 is as follows:

a. Multi-story building I<sub>s</sub> = 200 percent
 b. Single story building I<sub>s</sub> = 300 percent

3 Unlimited area applicable under conditions of Sections Group B, F, M, S, A-4 (507.1, 507.2, 507.3, 507.5); Group A motion picture (507.8); Malls (402.6); and H-2 aircraft paint hangers (507.6). 4 Maximum Building Area = total number of stories in the building x E but not greater than 3 x E.

NO CHANGE

ICREASE FOR SPRINKLERS SHOWN ON P	LANS CODE REFERENCE
Type_N/A	
t=H+20'=_N/A	
ries+1= <u>N/A</u> Stories	
	Type N/A

ALLOWABLE HEIGHT

NO CHANGE

NO CHANGE

FLOOR, ROOM OR SPACE DESIGNATION

Corridor dead ends (Section 1004.3.2.3)

Common Path of Travel (Section 1004.2.5)

SQ. FT.

N/A

See definition "Area, Gross" and "Area, Net" (Section 1002)

3 Minimum width of exit passageway (Section 1005.3.3)

4 See Section 1003.2.2.7 for converging exits.

Assembly occupancies (Section 1008)

See Table 1003.2.2.2 to determine whether net or gross area is applicable.

Single exits (Table 1005.2.2)

USE GROUP OR SPACE

(Section 1003.2.3)

LIFE SAFETY SYSTEM REQUIREMENTS

EXIT REQUIREMENTS

NUMBER AND ARRANGEMENT OF EXITS

EXIT WIDTH

Minimum stairway width (Section 1003.3.3); min. corridor width (Section 1004.3.2.2); min. door width (Section 1003.3.1)

<sup>5</sup> The loss of one means of egress shall not reduce the available capacity to less than 50 percent of the total required

Emergency Lighting:

Panic Hardware:

Smoke Detection Systems:

NUMBER OF EXITS

N/A

N/A

N/A

PER

REQUIRED

Exit Signs:

Fire Alarm:

☐ NO ☐ YES

□ NO □YES

☐ NO ☐YES

☐ NO ☐YES

☐ NO ☐YES

SHOWN ALLOWABLE TRAVEL ACTUAL DISTANCE TRAVEL

TRAVEL DISTANCE

(TABLE 1004.2.4) DISTANCE

PER OCCUPANT

(TABLE 1003.2.3)

N/A N/A

N/A N/A

N/A

N/A

SHOWN ON

PLANS

N/A

N/A

N/A

(TABLE 1003.2.2.2) STAIR LEVEL STAIR LEVEL STAIR LEVEL

# NO CHANGE

FIRE PROTECTION REQUIREMENTS

Life Safety Plan Sheet#, if Provided \_

Structural frame, including columns, girders, trusses  Bearing walls  Exterior  North  East  North	/A N, /A N, /A N, /A N,	/A /A /A /A	N/A N/A N/A	N/A N/A	N/A N/A	N/A	JOINTS N/A
Exterior   N/   North   N/   East   N/   West   N/	/A N, /A N, /A N, /A N,	/A /A /A	N/A				
Exterior         N/           North         N/           East         N/           West         N/	/A N, /A N, /A N, /A N,	/A /A /A	N/A				
North N/ East N/ West N/	/A N, /A N, /A N,	/A /A			IN/A	N/A	N/A
West N,	/A N,	/A		N/A	N/A	N/A	N/A
			N/A	N/A	N/A	N/A	N/A
South N	/A N	/A	N/A	N/A	N/A	N/A	N/A
	/A   N/	/A	N/A	N/A	N/A	N/A	N/A
Interior N/	/A N,	/A	N/A	N/A	N/A	N/A	N/A
Nonbearing walls and partitions Exterior							
North N	/A N,	/A	N/A	N/A	N/A	N/A	N/A
		/A	N/A	N/A	N/A	N/A	N/A
		/A	N/A	N/A	N/A	N/A	N/A
South N	/A N,	/A	N/A	N/A	N/A	N/A	N/A
Interior N/	/A N,	/A	N/A	N/A	N/A	N/A	N/A
Floor construction Including supporting beams and joist							
Roof construction Including supporting beams and joist							
Shafts-Exit N,	/A N,	/A	N/A	N/A	N/A	N/A	N/A
Shafts-Other N	/A N,	/A	N/A	N/A	N/A	N/A	N/A
Corridor Separation N,	/A N,	/A	N/A	N/A	N/A	N/A	N/A
Occupancy Separation N	/A N,	/A	N/A	N/A	N/A	N/A	N/A
Party/Fire Wall Separation N	/A N,	/A	N/A	N/A	N/A	N/A	N/A
Smoke Barrier Separation N	/A N,	/A	N/A	N/A	N/A	N/A	N/A
Tenant Separation N	/A N,	/A	N/A	N/A	N/A	N/A	N/A

	* Indicate	section	number	permitting	reduction	
--	------------	---------	--------	------------	-----------	--

# <sup>5</sup>The maximum area of parking garages must comply with 406.3.5. The maximum area of air traffic control towers

NGE	ELECTRICAL	SUMMARY

Method of Compliance: ☐ Prescriptive ☐ Performance ☐ Energy Cost Budget Lighting Schedule

number of lamps in fixture ballast type used in the fixture number of ballasts in fixture total wattage per fixture total interior wattage specified vs allowed

Equipment schedules with motors (not used for mechanical systems) motor horsepower

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT Method of Compliance:

☐ Prescriptive ☐ Energy Cost Budget Thermal Zone winter dry bulb Interior design conditions

Mechanical Spacing Conditioning System

heating efficiency cooling efficiency heat output of unit cooling output of unit

total chiller capacity. If oversized, state reason.

Equipment schedules with motors (mechanical systems) motor horsepower

motor type

N/A

Special approval: (Local Jurisdiction, Department of Insurance, SBCCI, ICC, etc., describe below)

# NO CHANGE

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 energy cost budget method, state the annual energy cost budget vs allowable annual energy cost budget.

# THERMAL ENVELOPE

☐ Prescriptive ☐ Performance ☐ Energy Cost Budget Roof/ceiling Assembly (each assembly)

U-Value of total assembly R-Value of insulation 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

Walls adjacent to unconditioned space (each assembly)

U-Value of assembly Low e required, if applicable

Description of assembly U-Value of total assembly

Floors slab on grade

Description of assembly U-Value of total assembly R-Value of insulation Horizontal/vertical requirement slab heated

NO CHANGE

must comply with 412.1.2.

SPECIAL APPROVALS

# ENERGY SUMMARY

**ENERGY REQUIREMENTS:** 

Method of Compliance:

Description of assembly

U-Value of skylight total square footage of skylights in each assembly

shading coefficient projection factor low e required, if applicable

Description of assembly U-Value of total assembly R-Value of insulation Openings (windows or doors with glazing)

Door R-Values Walls below grade (each assembly) Description of Assembly U-Value of total assembly

R-Value of insulation Floors over unconditioned space (each assembly)

R-Value of insulation

NO CHANGE

Basement TOTAL

DESIGN LOADS:

Live Loads:

N/A

Importance Factors: Wind (I w) \_\_\_\_\_1.15

Snow Load: N/A psf

SEISMIC DESIGN CATEGORY A

SOIL BEARING CAPACITIES:

Compliance with Section 1616.4 only?

SEISMIC DESIGN CATEGORY B, C, & D

Provide the following Seismic Design Parameters:

Basic structural system (check one)

Seismic Use Group N/A

Site Classification N/A

Snow (I<sub>S</sub>) N/A

Seismic (I<sub>E</sub>) N/A

Mezzanine N/A psf

Floor N/A psf

Exposure Category \_\_\_\_C

Spectral Response Acceleration Sws\_\_\_N/A\_\_\_%g

LATERAL DESIGN CONTROL: Earthquake N/A Wind N/A

Architectural, Mechanical, Components anchored?

Field Test (provide copy of test report) N/A

Presumptive Bearing capacity \_\_\_\_\_

Pile size, type, and capacity

\_\_\_N/A\_\_\_ psf

Basic Wind Speed 95 mph (ASCE-7-05)

N/A Bearing Wall N/A Dual w/Special Moment Frame

N/A Building Frame N/A Dual w/Intermediate R/C or Special Steel

Analysis Procedure N/A Simplified N/A Equivalent Lateral Force N/A Modal

PLUMBING FIXTURE REQUIREMENTS

WATERCLOSETS URINALS LAVATORIES SHOWERS/ DRINKING FOUNTAINS

 N/A
 N/A
 N/A
 N/A
 N/A
 N/A
 N/A

 N/A
 N/A
 N/A
 N/A
 N/A
 N/A
 N/A

 N/A
 N/A
 N/A
 N/A
 N/A
 N/A
 N/A

MALE FEMALE MALE FEMALE TUBS REGULAR ACCESSIBLE

Wind Base Shears (for MWFRS) Vx = 85 psf Vy = 85 psf

☐ YES ☐ NO

S<sub>M1</sub> <u>N/A</u>%g

# NO CHANGE ACCESSIBLE PARKING

LOT OR PARKING AREA	TOTAL# OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED		TOTAL #
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	VAN SPACE WITH 8' ACCESS AISLE	ACCESSIBLE PROVIDED
	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A
TOTAL	N/A	N/A	N/A	N/A	N/A

# NO CHAN

# ELECTRICAL SYSTEM AND EQUIPMENT

lamp type required in fixture

total exterior wattage specified vs allowed

number of phases minimum efficiency # of poles

# NO CHANGE

# MECHANICAL SUMMARY

winter dry bulb summer dry bulb relative humidity Building heating load Building cooling load

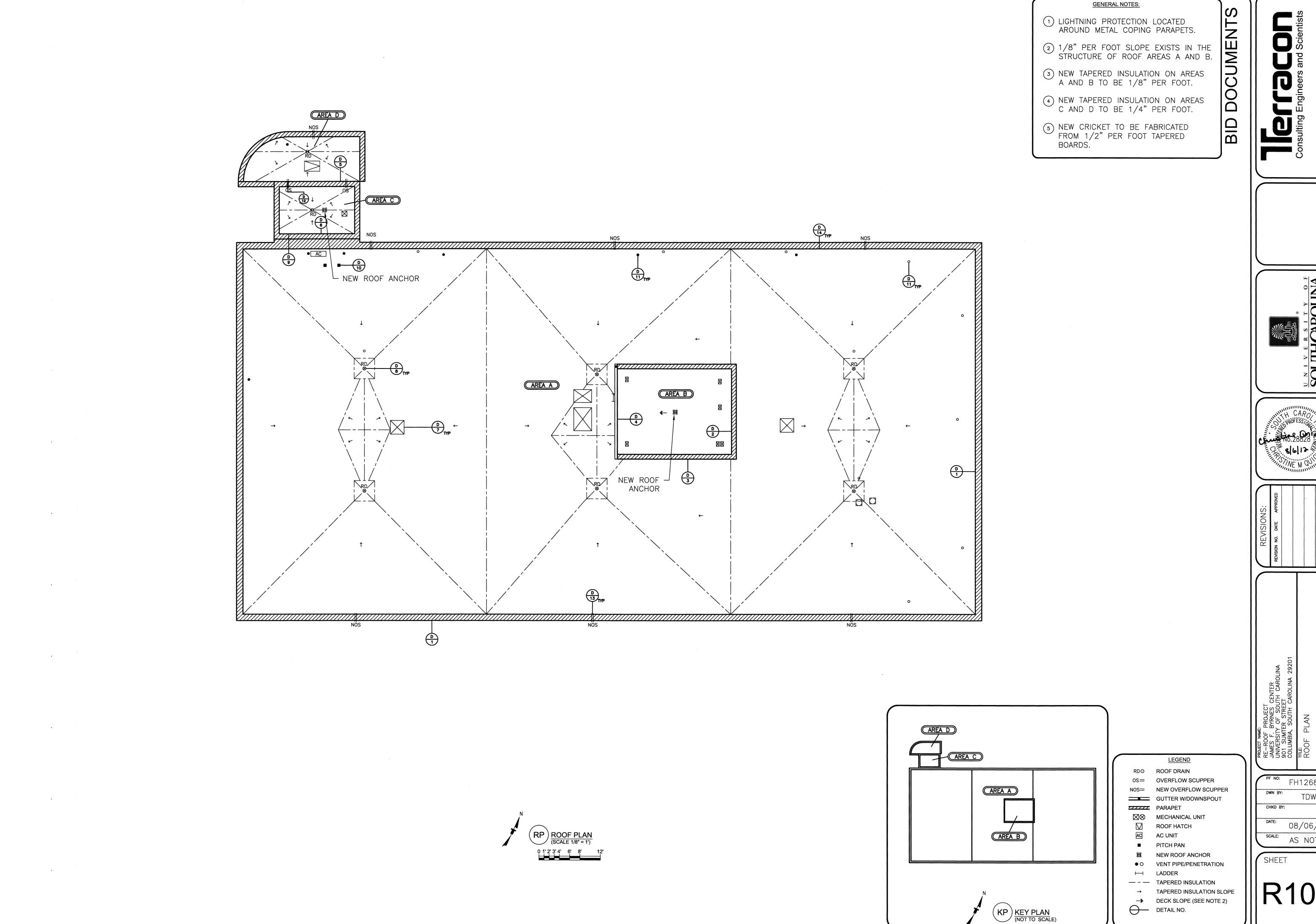
Unitary description of unit

total boiler output. If oversized, state reason.

List equipment efficiencies

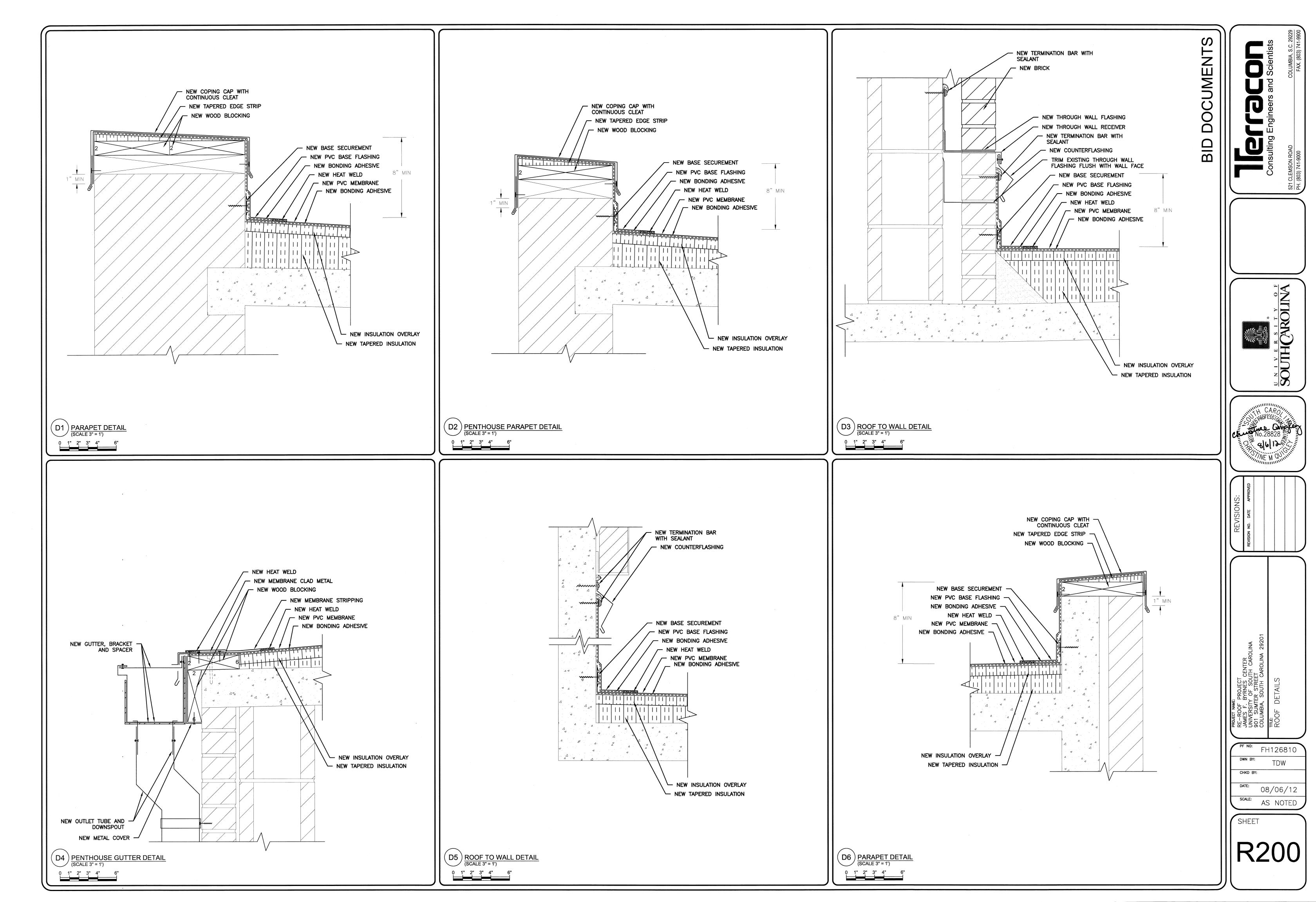
number of phases minimum efficiency

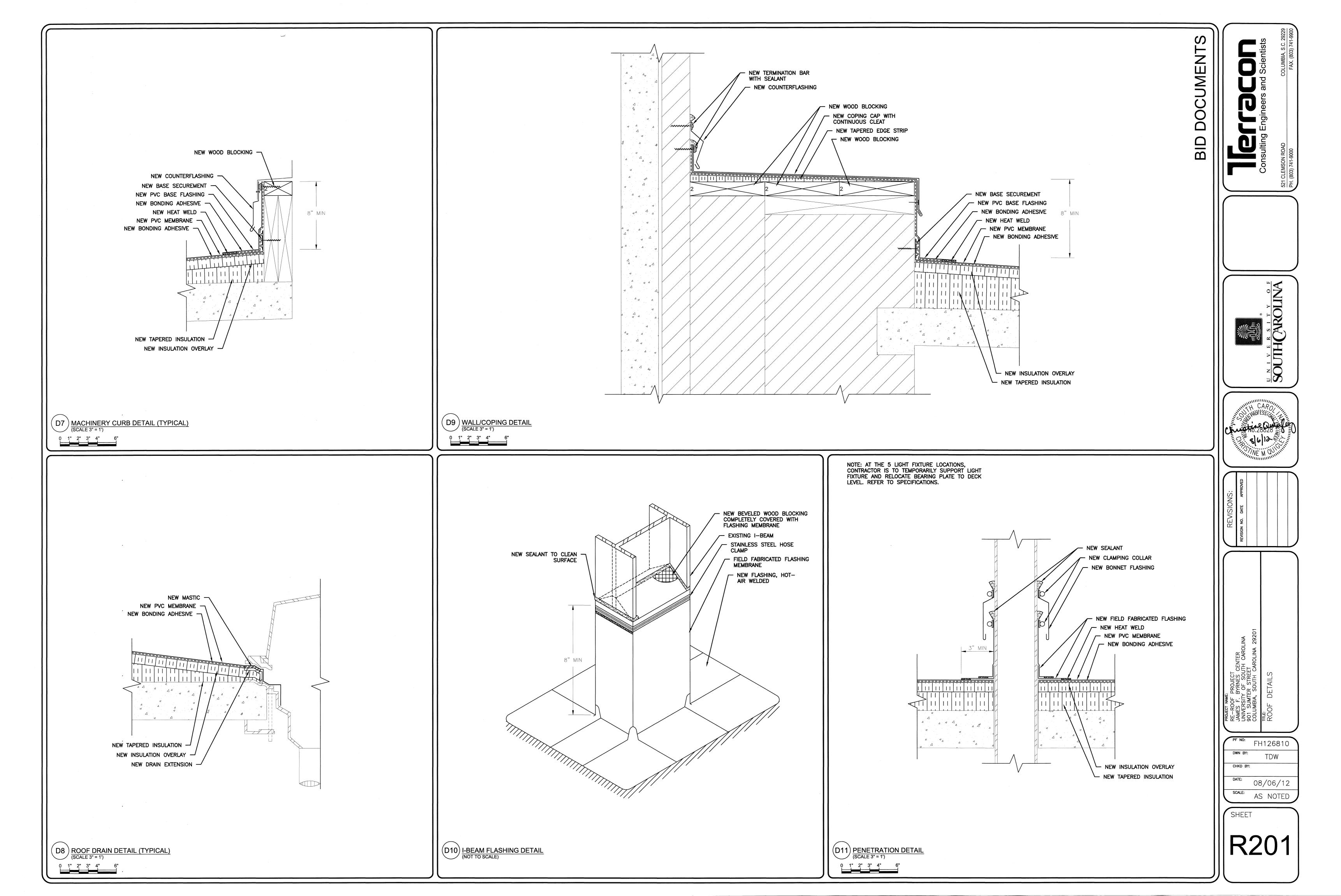
# of poles

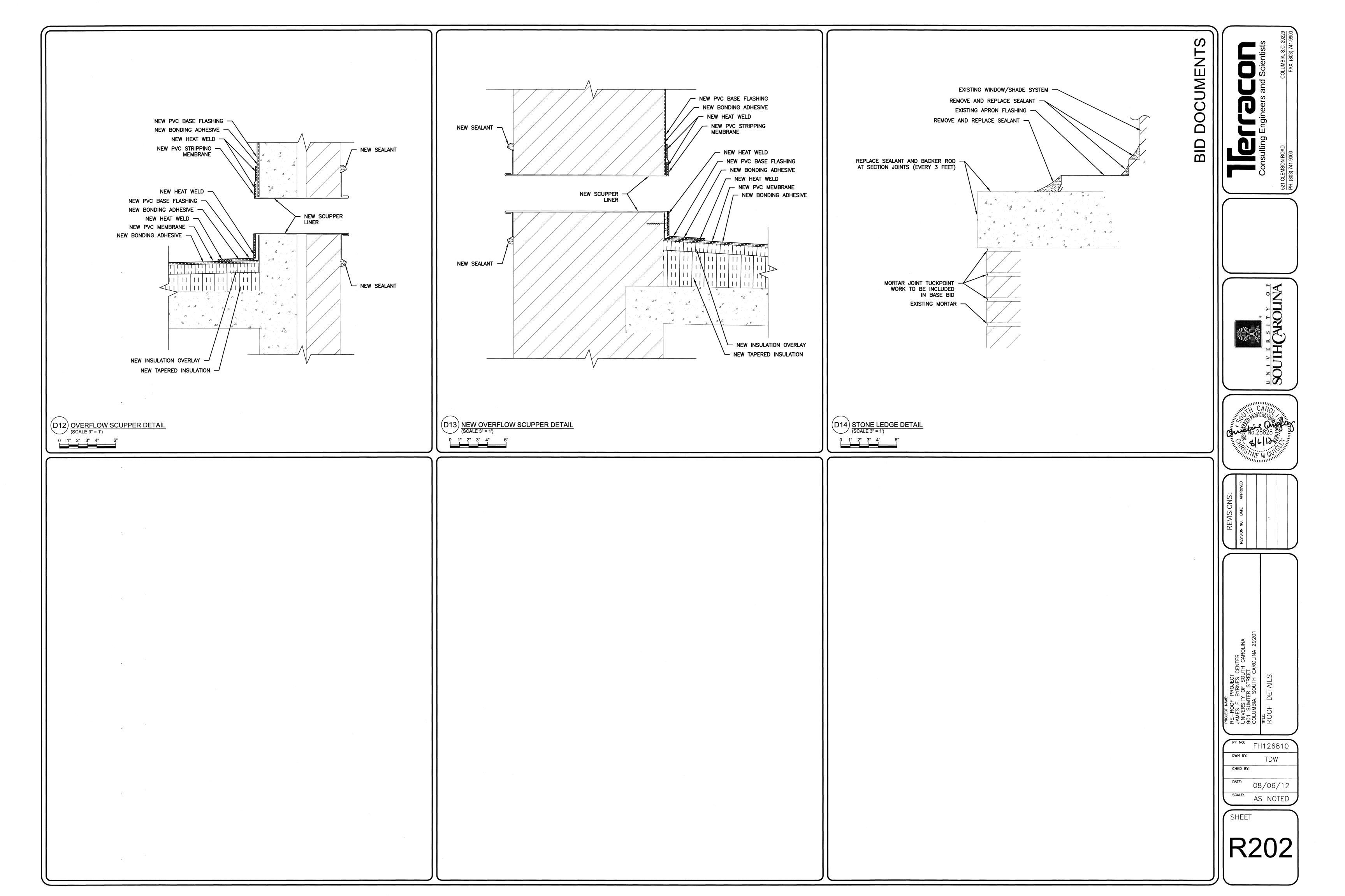


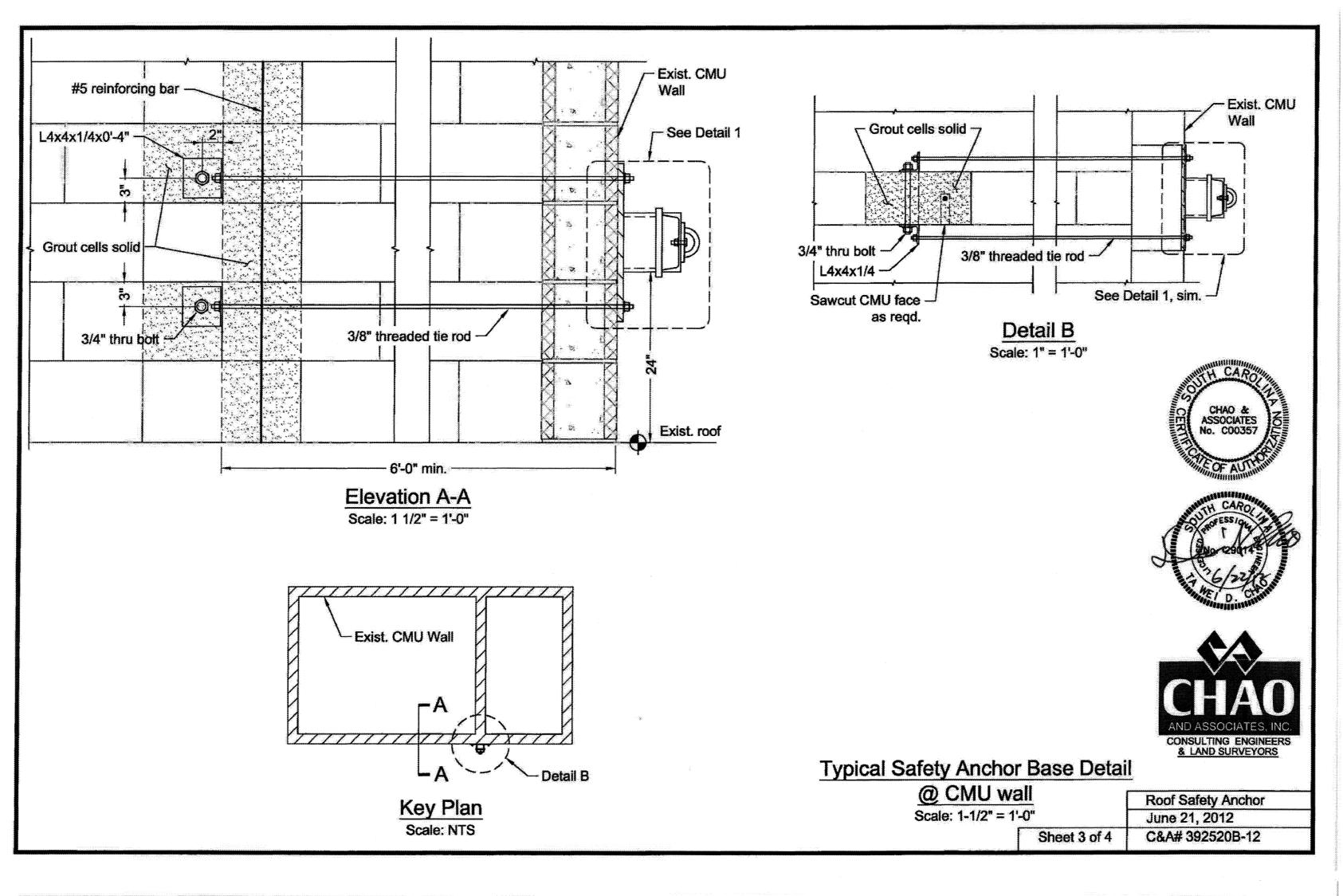


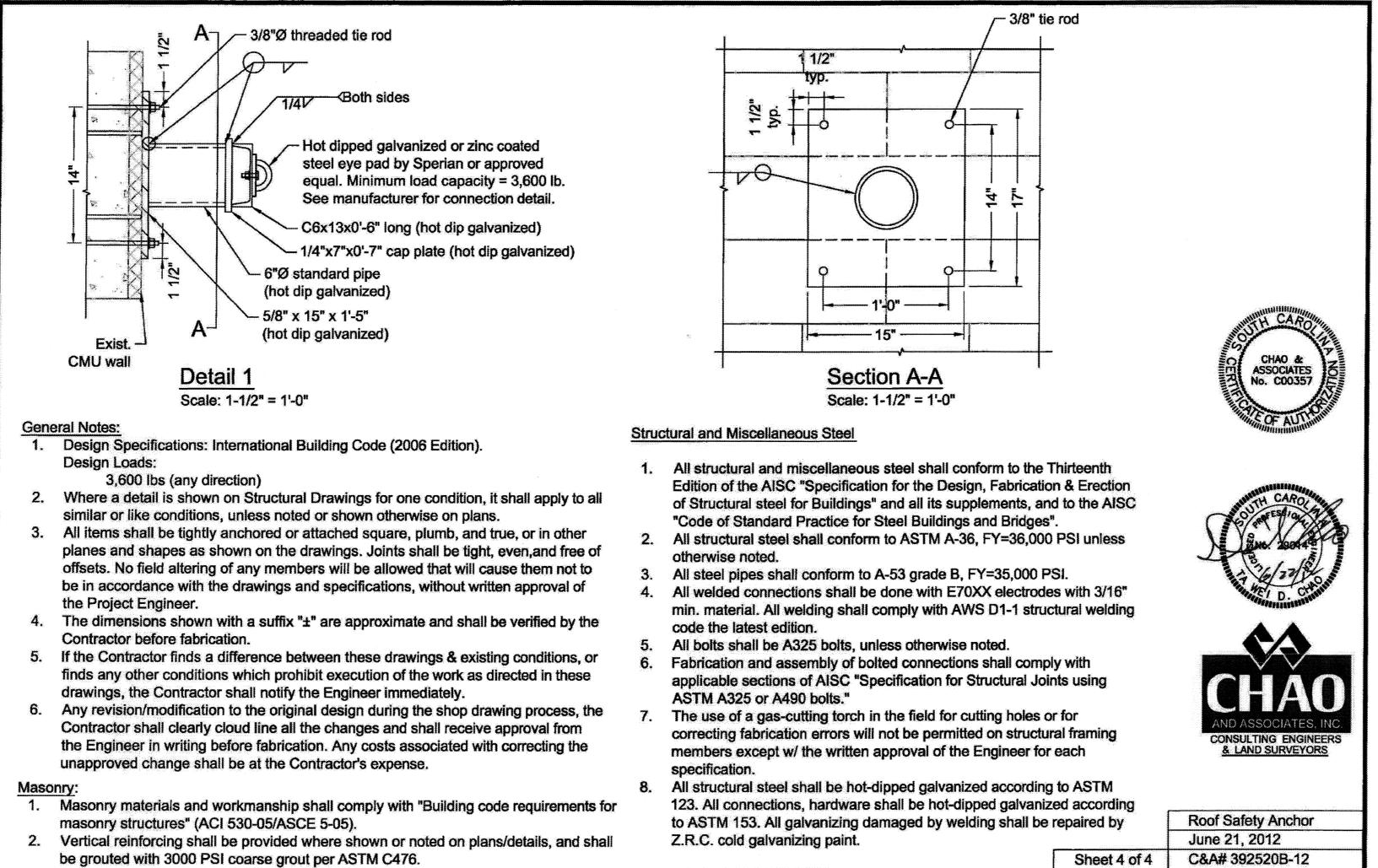
08/06/12 AS NOTED

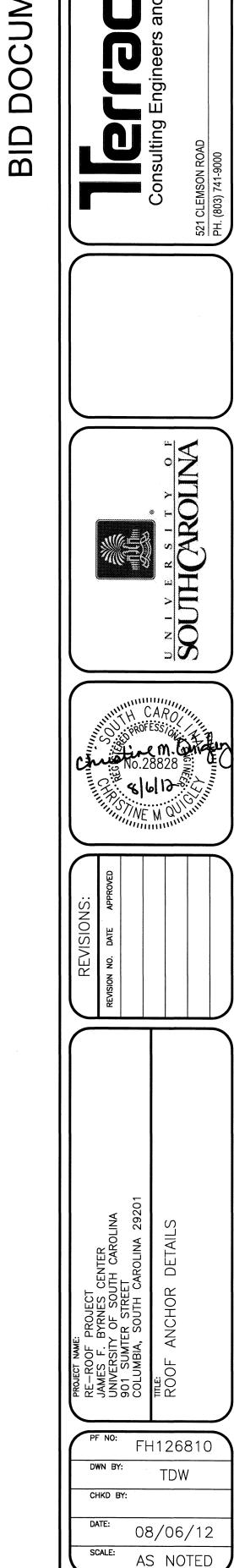




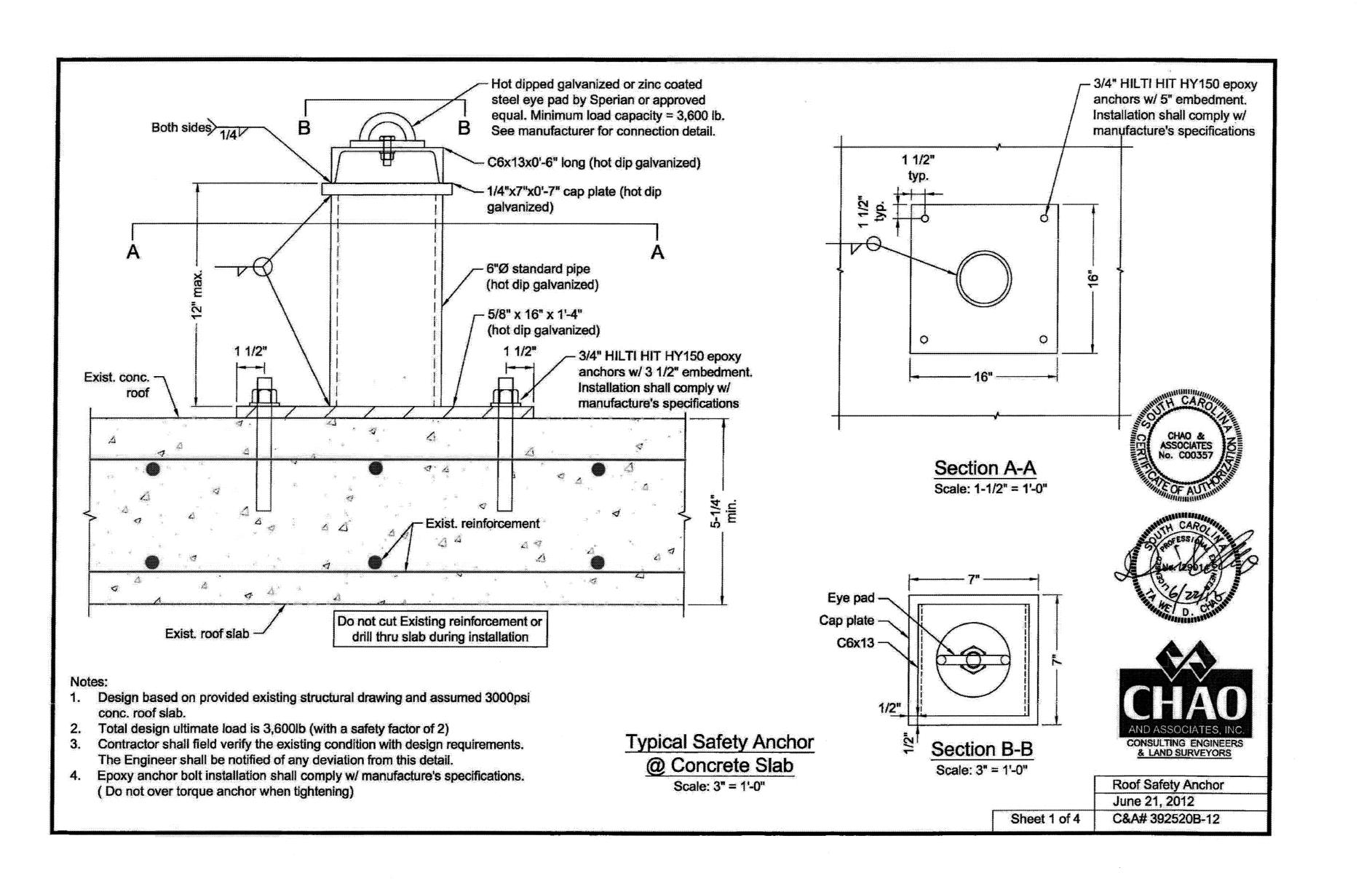








SHEET



PF NO: FH126810

DWN BY: TDW

CHKD BY:

DATE: 08/06/12

SCALE: AS NOTED

R204