

ADDENDUM

Project: Science Building Research Wing Expansion

Project No. 03049

Owner: University of Southern Maine
Portland, Maine

Architect: Symmes Maini and McKee Associates
1000 Massachusetts Avenue
Cambridge, MA 02138
(617) 547-5400; FAX (617) 354-5758

Addendum: No. 1

Date: April 28, 2004

This addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated February 20, 2004. Portions of the Bidding and Contract Documents not altered by this addendum remain in full force.

Acknowledge receipt of this addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

ATTACHMENTS

Table of Contents.

Section 00300, Proposal Form

Section 00310, Maine Construction Bid Depository Proposal Form for Subcontractor.

Sketches: SKA-1 through SKA-8, SKS-1 through SKS-9, SKE-01 through SKE-06.

Note that Section 13080, "Rooftop Equipment Screens," listed in the revised Table of Contents, has not been issued yet. It will be issued with Addendum No. 2, along with appropriate sketches. HVAC sub-bidders may assume that work under section 13080 will not affect their bid.

CHANGES TO SPECIFICATIONS

Replace Table of Contents with revised version, dated April 28, 2004.

00300, Proposal Form

1. Replace with revised form dated April 28, 2004.

00310, Maine Construction Bid Depository Proposal Form for Subcontractor

1. Replace with revised form dated April 28, 2004.

01230, Alternates

1. 3.01 B: Delete Alternate No. 2.
2. 3.01: Add Paragraph H, Alternate No. 8, as follows:
 - H. Alternate 8: Rooftop Acoustical Screens:
 1. Base Bid: No rooftop acoustical screens.
 2. Alternate: Acoustical panels on structural supports at roof perimeter and acoustical panels mounted on exterior walls, as specified in Section 13080; refer to Drawings for extent. Alternate includes cutting and patching of existing roofing.

01400, Quality Requirements

1. 1.07 E: Change "Commonwealth of Massachusetts" to "State of Maine."

03310, Cast-In-Place Concrete

1. Section 03310.2.05D: Change the wording of "normal weight" concrete to read "lightweight concrete." The term lightweight concrete applies to all slab on metal deck concrete. Concrete fill for steel pan stairs shall be normal weight concrete.

05500, Metal Fabrications

1. 1.02 A: Add subparagraph 5 as follows: "5. Bar grating over elevator pit sump."
2. In Part 2, add new Article 2.12 as follows:
 - 2.12 BAR GRATING FOR ELEVATOR PIT SUMP.
 - A. Aluminum Bar Grating: 1/4" x1" aluminum bars with 1/8" clear spacing between bars. Provide a frame of 2"x2" aluminum angles pre drilled for expansion bolts to all 4 sides of sump pit, flush with pit floor. Construct to field measured dimensions. Drill holes as necessary for penetrations for sump pump piping."
3. In Part 3, insert new Article 3.05 as follows, as renumber 3.05 and 3.06 as 3.06 and 3.07, respectively.
 - 3.05 INSTALLATION OF BAR GRATING
 - A Set bar grating flush with adjacent floor surface. Install with expansion bolts into concrete wall.

08710, Door Hardware

1. 3.07: Make the following changes to the Hardware Sets:
 - 1a. Add to Set No. 5, 1 - Closer.
 - 1b. Add to Set No. 6, 2 - Kick Plates

15050, Basic Mechanical Materials and Methods

1. 1.00: Add new paragraph D, as follows:

- D. The HVAC filed sub-bid shall include all the work specified in Division 15 and shown on Drawings M0.1 through M2.2 and P.01 through P2.2, inclusive.

15910, Control Systems

1. 1.02: Change paragraph B to read as follows:

- B. The direct digital control system is an extension of the existing system. This existing system has an open system architecture by means of ANSI/ASHRAE standard 135-1995 BACnet protocol.

2. 1.02 C.13: Change this subparagraph to read as follows:

- 13. New controls for existing equipment:
 - a. Constant Volume Reheat Terminal Unit Control
 - b. Air Conditioning Unit Control #1 (AC-6 & 7)
 - c. Air Conditioning Unit Control #2 (AC-5)
 - d. Reset Hot Water Control
 - e. Air Handling Unit Control System (AH-2)
 - f. Hood Exhaust Fans
 - g. General Exhaust

3. 1.02 D: Change paragraph D to read as follows:

- D. Provide complete, effective and efficient control of the following:
 - 1. Revisions to existing systems and equipment as indicated.
 - 2. New HVAC systems and equipment added as work of this contract.

4. 2.01: Add new paragraphs as follows:

- E. Building Automation System: IB Controls – Delta native BACNET system.
- F. Variable Frequency Drives: Delta/Omron P5

5. 2.02: Change paragraph A to read as follows:

- A. The direct digital control system is an extension of the existing system. This existing system has an open system architecture by means of ANSI/ASHRAE standard 135-1995 BACnet protocol.

6. 2.03 B: Change the subparagraphs to read as follows:

- 1. Second tier networks shall provide Native BACnet MS/TP communications, and shall operate at a minimum communication speed of 78,000 baud.
- 2. DDC System Controllers shall reside on the second tier and be certified as native BACnet (plug & play technology).

7. 3.05 F.1: Change Room No. 352A to 352.

8. 3.08: Add new paragraph B, as follows:

B. Comply with USM IDAT requirements.

15950, Testing Adjusting and Balancing

1. 3.11 A: Change "01400" to "Section 01450."

2. 3.12 A: Change "01400" to "Section 01450."

3. 3.12: Add new paragraphs as follows:

J. Fan Test Reports (Supply and exhaust):

1. Fan Data: Include the following:
 - a. System identification.
 - b. Location.
 - c. Make and type.
 - d. Model number and size.
 - e. Manufacturer's serial number.
 - f. Arrangement and class.
 - g. Sheave make, size in inches, and bore.
 - h. Sheave dimensions, center-to-center and amount of adjustments in inches.
2. Motor Data: Include the following:
 - a. Make and frame type and size.
 - b. Horsepower and rpm.
 - c. Volts, phase, and hertz.
 - d. Full-load amperage and service factor.
 - e. Sheave make, size in inches, and bore.
 - f. Sheave dimensions, center-to-center and amount of adjustments in inches.
 - g. Number of belts, make, and size.
3. Test Data: Include design and actual values for the following:
 - a. Total airflow rate in cfm.
 - b. Total system static pressure in inches wg.
 - c. Fan rpm.
 - d. Discharge static pressure in inches wg.
 - e. Suction static pressure in inches wg.

K. Duct Traverse Reports: Include a diagram with a grid representing the duct cross-section and record the following:

1. Report Data: Include the following:
 - a. System and air-handling unit number.
 - b. Location and zone.
 - c. Traverse air temperature in deg F.
 - d. Duct static pressure in inches wg.
 - e. Duct size in inches.
 - f. Duct area in sq. ft.

- g. Design airflow rate in cfm.
- h. Design velocity in fpm.
- i. Actual airflow rate in cfm.
- j. Actual average velocity in fpm.
- k. Barometric pressure in psig.

L. System-Coil Reports (Energy Recovery Unit):

- 1. Unit Data: Include the following:
 - a. System identification.
 - b. Location and zone.
 - c. Coil make and size.
 - e. Flow meter type.
- 2. Test Data: Include design and actual values for the following:
 - a. Airflow rate in cfm.
 - b. Entering-water temperature in deg F.
 - c. Leaving-water temperature in deg F.
 - d. Water pressure drop in feet of head or psig.
 - e. Entering-air temperature in deg F.
 - f. Leaving-air temperature in deg F.

M. Existing Air-Terminal-Device Reports including hot water coils:

- 1. Unit Data: Include the following:
 - a. System and air-handling unit identification.
 - b. Location and zone.
 - c. Test apparatus used.
 - d. Area served.
 - e. Air-terminal-device make.
 - f. Air-terminal-device number from system diagram.
 - g. Air-terminal-device type and model number.
 - h. Air-terminal-device size.
 - i. Air-terminal-device effective area in sq. ft.
 - j. Coil make and size.
 - k. Flow meter type.
- 2. Test Data: Include design and actual values for the following:
 - a. Airflow rate in cfm.
 - b. Air velocity in fpm.
 - c. Preliminary airflow rate as needed in cfm.
 - d. Preliminary velocity as needed in fpm.
 - e. Final airflow rate in cfm.
 - f. Final velocity in fpm.
 - g. Space temperature in deg F.
 - h. Entering-water temperature in deg F.
 - i. Leaving-water temperature in deg F.
 - j. Water pressure drop in feet of head or psig.
 - k. Entering-air temperature in deg F.

1. Leaving-air temperature in deg F.

N. Hot Water Unit Heaters:

1. Unit Data: Include the following:
 - a. Unit identification.
 - b. Location and area served.
 - c. Test apparatus used.
 - e. Make and model number.
 - f. Device number from plans.
 - g. Flow meter type.
2. Test Data: Include design and actual values for the following:
 - a. Space temperature in deg F.
 - b. Entering-water temperature in deg F.
 - c. Leaving-water temperature in deg F.
 - d. Water pressure drop in feet of head or psig.
 - e. Entering-air temperature in deg F.
 - f. Leaving-air temperature in deg F.

4. 3.13: Add new paragraph B, as follows:

B. Existing Fume Hood Test Reports:

1. Unit Data: Include the following:
 - a. Unit identification.
 - b. Location.
 - c. Fume hood manufacturer
 - d. Make and size.
 - e. Model and serial numbers.
 - f. Attach a label on the lower right hand corner of the sash on each hood clearly and legibly marked with the following information: Test and balance agency, Hood No., Date, Maximum sash opening, average face velocity, lowest velocity reading, CFM, TBE, Instrument and Instrument calibration date.
2. Exhaust fan and motor
 - a. Fan manufacturer, model and serial number
 - b. Fan description: such as fan type, size, arrangement, class, discharge, type sheave and drive, speed (RPM), specified design total exhaust CFM
 - c. Motor manufacturer, model and serial number. Motor description such as: HP, voltage, phase, cycles, rated amperes, running amperes – each phase, speed (RPM).
3. Performance Test Data:
 - a. Position of operable sash – percent full open
 - b. Exhaust volume rate (CFM) – measured in exhaust duct. Include average duct velocity and cross sectional area of duct used for calculations
 - c. Exhaust volume rate (CFM) measured at hood duct opening. Include average duct velocity and cross sectional area of duct used for calculations

- d. Sketch of hood sash opening showing center point areas and corresponding velocity readings
- e. Average face velocity. Compare with specified design face velocity.
- f. Exhaust volume rate (CFM) calculated from face velocity measurements. Compare with exhaust volumes of 2. b. & c.
- g. Whether reverse flows or dead air spaces were observed at hood face. (titanium tetrachloride test)
- h. Whether reverse flows were observed at each end of the working surface and across the working surface of hood. (titanium tetrachloride test).
- i. Observation and results of hood smoke test with hood door open and door closed.
- j. Observations and results of hood dry-ice test.
- k. Average face velocity with hood sash open 3 inches. Compare with specific limitations.
- l. Brief summary of tests.

CHANGES TO DRAWINGS

A0.3, Schedules and Legends

1. In Door Types, change Door Type F from "Flush wood Door" to "Flush HM door."

A1.6, Roof Plan

1. Add detail key to detail 3/A1.6 as shown on sketch SKA-1.
2. Add detail key to detail 6/A1.6 as shown on sketch SKA-2.
3. Add detail key to detail 7/A1.6 as shown on sketch SKA-3.
4. Add new detail 8/A1.6 as shown on sketch SKA-4.
5. Add new detail 9/A1.6 as shown on sketch SKA-5.

A4.4, Details

1. Add new detail 17/A4.4 showing typical framing of stair landing at Stair #6 exterior wall, as shown on sketch SKA-8.

A4.5, Details

1. Add new detail 4/A4.5 showing flashing and expansion joint at intersection of Stair #6 to roof, as shown on sketch SKA-6.
2. Add new detail 5/A4.5 showing flashing, expansion joint and threshold at door #601, as shown on sketch SKA-7.

A5.1, Stair and Elevator Plans and Sections

1. On enlarged plan 6/A5.1, add a detail key to new detail "4/A4.5 (typ.)", at the exterior wall to the west of door #601.
2. On enlarged plan 6/A5.1, add a detail key to new detail "5/A4.5", at the threshold of door #601.
3. On enlarged plan 6/A5.1, add a detail key to new detail "17/A4.4(typ.)", at the north wall of stair #6.

S0.02, General Notes and Typical Details

1. Change the second note under Concrete to read, "Concrete slab on metal deck 3500psi Lightweight Concrete." This applies to all concrete on metal deck at the new fourth, fifth, and roof levels.

S1.11, Existing First Floor Framing Plan

1. Increase size of existing area way, and add grating as shown on sketch ADD-1/SKS-1

S1.41, New Fourth Floor Framing Plan

1. Revise mechanical shaft dimensions and remove existing steel girts as shown on sketch ADD-1/SKS-2.
2. Omit sawcut opening note at section 15/S4.01 in the area of gridline 4.3 and F. Locate the opening in the same area on the third floor. Refer to the architectural drawings for size and location.

S1.51, New Fifth Floor Framing Plan

1. Revise mechanical shaft dimensions as shown on sketch ADD-1/SKS-3.

S1.61, New Roof Framing Plan

1. Provide additional C6 Hangers for extended roof parapet support as shown on sketches ADD1/SKS-4 and ADD-1/SKS-5.
2. At Stair No. 6, make the top of the steel tubes at the exterior/perimeter of the stair tower equal to 123-7".

S2.03, Bracing Elevations and Details

1. Revise Brace Frame no. 7 as shown on sketch ADD-1/SKS-6.
2. Revise the top of steel elevation at the roof level at Braces 4; 5, 6, and 7.

S4.01, Sections and Details

1. Add new Section 2a as shown on sketch ADD-1/SKS-7.
2. Add new Section 20a as shown on sketch ADD-1/SKS-8.

S4.02, Sections and Details

1. Revise Section 13 as shown on sketch ADD-1/SKS-9.
2. In Sections 11 and 12 make the top of steel elevation at the stair landing equal to 123'-7".

M2.1 Second Floor and Penthouse Plans

1. Change note at EF/22 to read "Extend 4" ERS7R across roof I connect to coil in EF-22-ERU. Provide shut-off and balance valves."

M2.2 Part Plans, Section and Details

1. Refer to Detail 4/M2.2. Change note to read "Extend 1" chilled water horizontally for cross connection to Science Wing CHWS&R."

E0.1 Legend, Details and Schedules

1. Make changes shown on SKE-01.

E1.3 Third and Fourth Floors, Power and Lighting

1. Make changes shown on SKE-02 and SKE-03.

E1.4 Fifth Floor and Roof Plan, Power and Lighting

1. Make changes shown on SKE-04.

E1.5 Penthouse Plan and Basement Partial Plan

1. Make changes shown on SKE-05.

E4.1 Power One-Line Diagram, Phase 2

1. Make changes shown on SKE-06.

END OF ADDENDUM

UNIVERSITY OF SOUTHERN MAINE, PORTLAND CAMPUS
SCIENCE BUILDING RESEARCH WING EXPANSION

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01310	PROJECT MANAGEMENT AND COORDINATION
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NOT APPLICABLE TO THIS PROJECT.

Division 3 - Concrete

03310 CAST-IN-PLACE CONCRETE

Division 4 - Masonry

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04812 THIN BRICK VENEER SYSTEM

Division 5 - Metals

05120 STRUCTURAL STEEL
05310 STEEL DECK
05410 COLD-FORMED METAL FRAMING
05500 METAL FABRICATIONS
05510 METAL STAIRS
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Division 6 - Wood and Plastics

06100 ROUGH CARPENTRY

Division 7 - Thermal and Moisture Protection

07210 BUILDING INSULATION
07240 EXTERIOR INSULATION AND FINISH SYSTEM
07270 AIR BARRIER
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NOT APPLICABLE TO THIS PROJECT

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SECTION 00300
PROPOSAL FORM

BIDDER:

Board of Trustees
University of Maine Portland
c/o Mr. David Barbour
Director of Facilities Management
Facilities Management, University of Southern Maine
96 Falmouth Street
P.O. Box 9300
Portland, ME 04104-9300

Having carefully examined the form of contract, general conditions and plans and specifications contained therein for the "**Science Building Research Wing Expansion, USM Portland, Maine,**" as well as the premises and conditions affecting the work, we the undersigned propose to furnish all labor, equipment and materials necessary for and reasonably incidental to the construction and completion of this contract for the sum of

_____ Dollars (\$ _____).

Alternate prices as follows:

Alternate #1, Elevator:	Add: _____
Alternate #2, Existing HVAC Systems Controls Upgrade:	DELETED
Alternate #3, Damper for existing AHU 2:	Add: _____
Alternate #4, Chilled Water Tie-In:	Add: _____
Alternate #5, Science Wing Exhaust System:	Add: _____
Alternate #6, Concrete Coating on Existing Building:	Add: _____
Alternate #7, Thin Brick System:	Add: _____
Alternate #8, Rooftop Acoustical Screens:	Add: _____

This proposal includes the cost of 100% Performance Bond plus 100% Payment Bond.

The receipt of the following addenda to plans and specifications is hereby acknowledged:

Addendum # ___ dated _____	Addendum # ___ dated _____
Addendum # ___ dated _____	Addendum # ___ dated _____
Addendum # ___ dated _____	Addendum # ___ dated _____

Any material or materials not specified in the bidding document but worthy of consideration may be introduced by the bidder by a separate letter attached to this Proposal. A cost comparison must be included giving the comparison with the Material specified and the reason for the suggested substitution. The basic bid shall be as specified.

Filed Subcontract Proposals as follows:

<u>Specification Division</u>	<u>Subcontractor Name</u>	<u>Amount</u>
Heating, Ventilating and Air Conditioning	_____	_____

The undersigned agrees that the above named Subcontractor represents a bona fide Subproposal based on the Plans and Specifications and will be used for the Work indicated at the Amount stated, unless a substitution is made by mutual agreement as provided for in Section 00120, "Supplemental Instruction to Bidders". In the event Alternate Prices are requested and various trades are involved, the General Contractor may use properly filed Subproposals even though a change in Subcontractors because of Alternates, the General Contractor shall use supplemental sheets attached to the Proposal Form to indicate such changes.

The undersigned agrees, if this proposal is accepted to sign a contract and deliver it, along with the bonds and affidavits for all insurance specified within twelve (12) calendar days after the date of notification of such acceptance, except if the 12th day falls on a Saturday, Sunday or holiday, then the conditions will be fulfilled if the required documents are received before 12 o'clock noon on the day following the holiday, or the Monday following the Saturday or Sunday, and as a guarantee thereof, herewith submits a bid bond as required.

The undersigned agrees, if awarded the Contract, to complete the work on or before _____. The undersigned also agrees, if awarded the Contract, that no more than 80% of the contract amount will be sublet to other contractors.

Signed _____

By _____

P. O. Address _____

NOTE: If bidder is a corporation, write State of Incorporation, and if a partnership, give full names of all partners.

SECTION 00310
Maine Construction Bid Depository Proposal Form for Subcontractor
Revised April 28, 2004 (Addendum No. 1)

To: _____

For green envelope copy, list any general contractor(s) excluded from your bid:

Project: **SCIENCE BUILDING RESEARCH WING EXPANSION**

Section(s) Quoted: _____

Price Quoted: \$ _____ (_____)
(written figures)

UNIT PRICES (if applicable)

Item _____ Amount \$ _____

A. The undersigned proposes to furnish all labor and materials required for completing in accordance with the plans, specifications, general conditions and addenda, all the work specified in the sections of the specifications listed above and in the Contract Drawings dated February 20, 2004 (including Addenda listed in Paragraph C), prepared by Symmes, Maini & McKee Associates.

B. Alternate Prices are submitted as follows: (Use separate sheets as necessary)

Alternate #1, Elevator: Add: _____

Alternate #2, Existing HVAC Systems Controls Upgrade: **DELETED**

Alternate #3, Damper for existing AHU 2: Add: _____

Alternate #4, Chilled Water Tie-In: Add: _____

Alternate #5, Science Wing Exhaust System: Add: _____

Alternate #6, Concrete Coating on Existing Building: Add: _____

Alternate #7, Thin Brick System: Add: _____

Alternate #8, Rooftop Acoustical Screens: **Not Applicable**

C. The subcontractor proposal includes the following addenda to the Drawings and Specifications (List addenda and issue date of each)

Addendum # ___ dated _____ Addendum # ___ dated _____

Addendum # ___ dated _____ Addendum # ___ dated _____

D. The undersigned agrees that, if selected as a Subcontractor, he or she will execute with the selected General Contractor a subcontract in accordance with the terms of the subproposal, and furnish the General Contractor with a 100% Performance Bond and a 100% Payment Bond for the Subcontractor's portion of the Work.

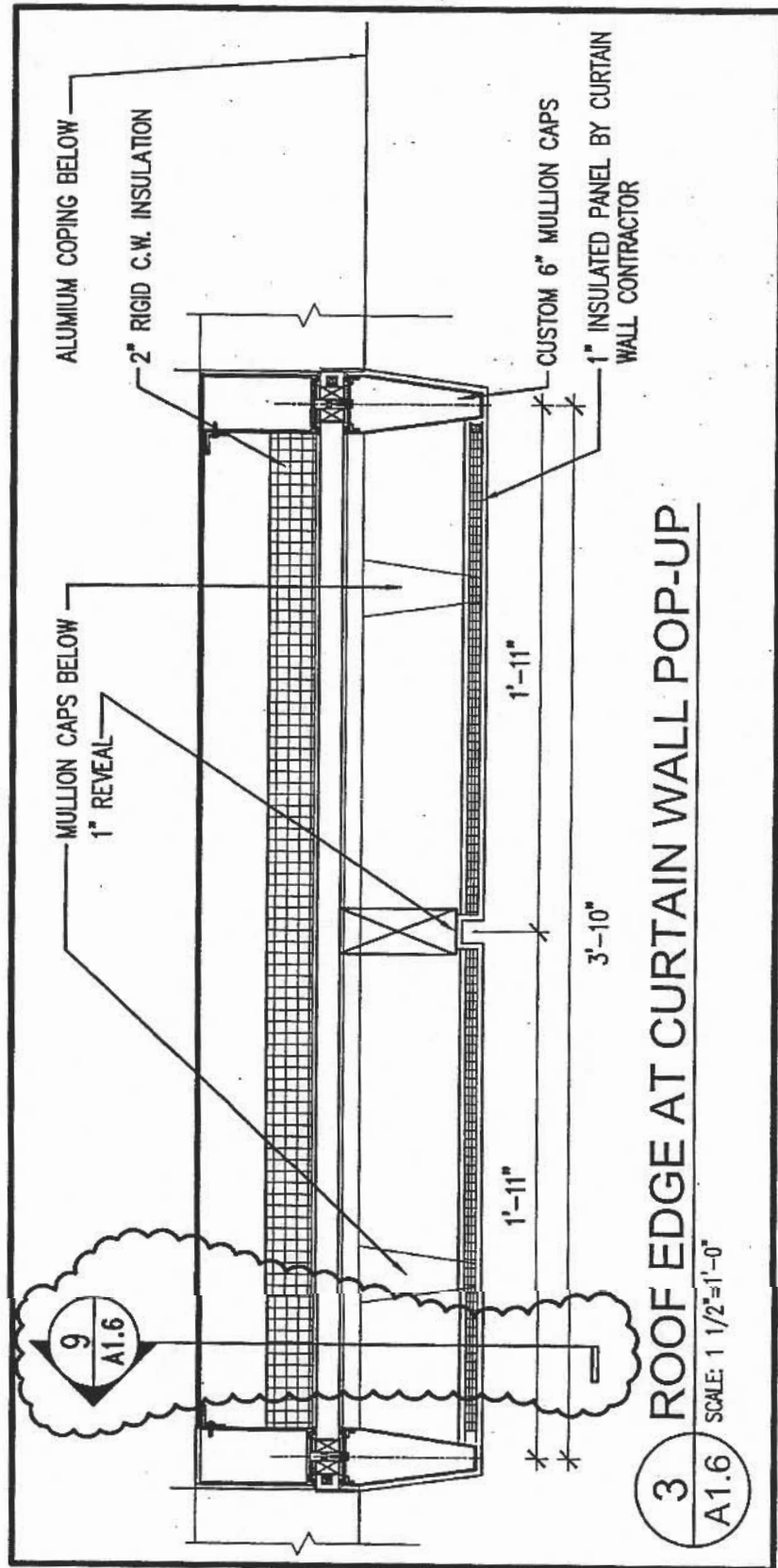
E. _____ License # (if applicable)


Company _____

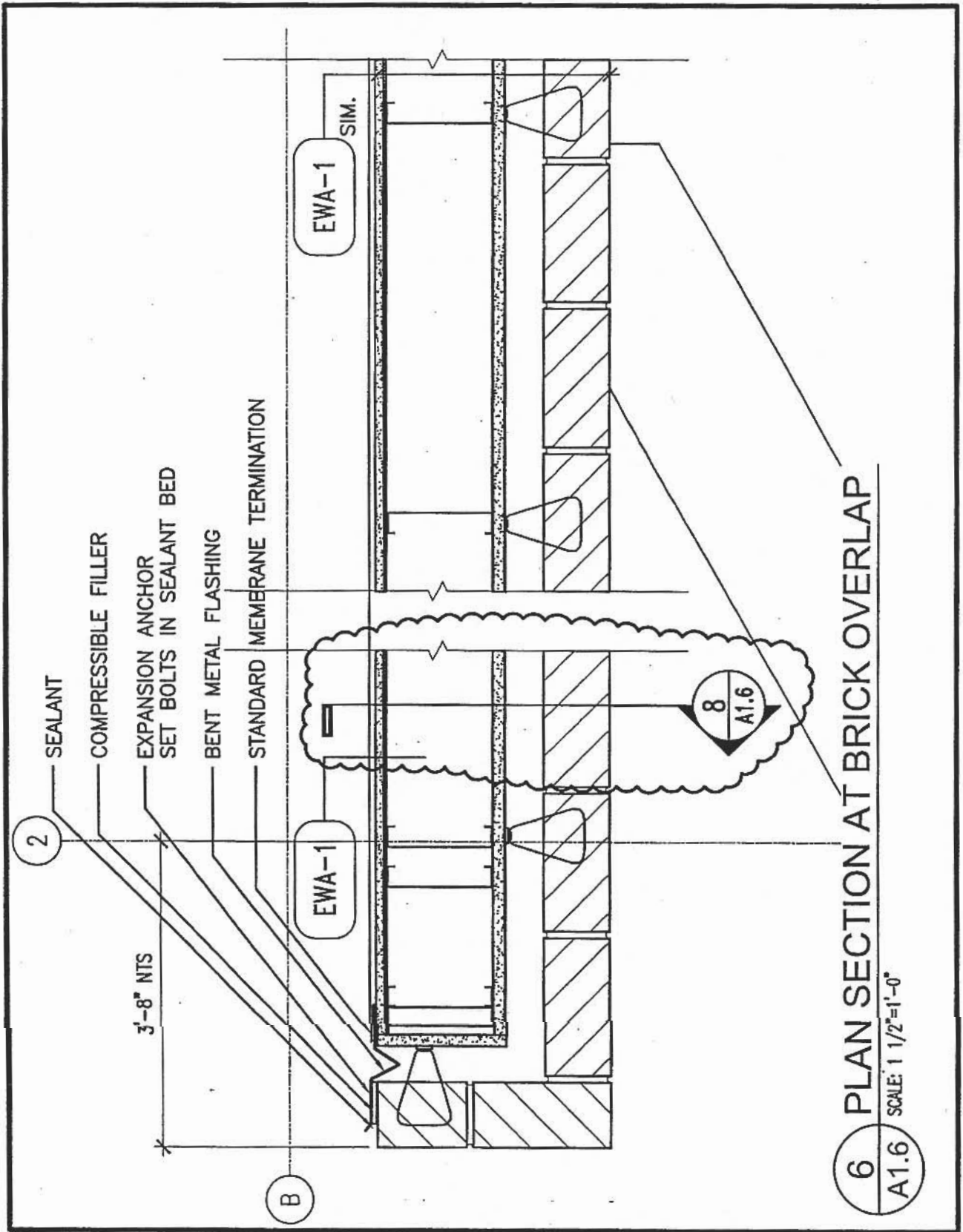
Signed by _____ Date _____

Address _____
Street City State Zip

F. All foreign corporations intending to do business in Maine must comply with the provisions of 13A MRSA Chapter 12 and shall contact the secretary of State for Compliance.

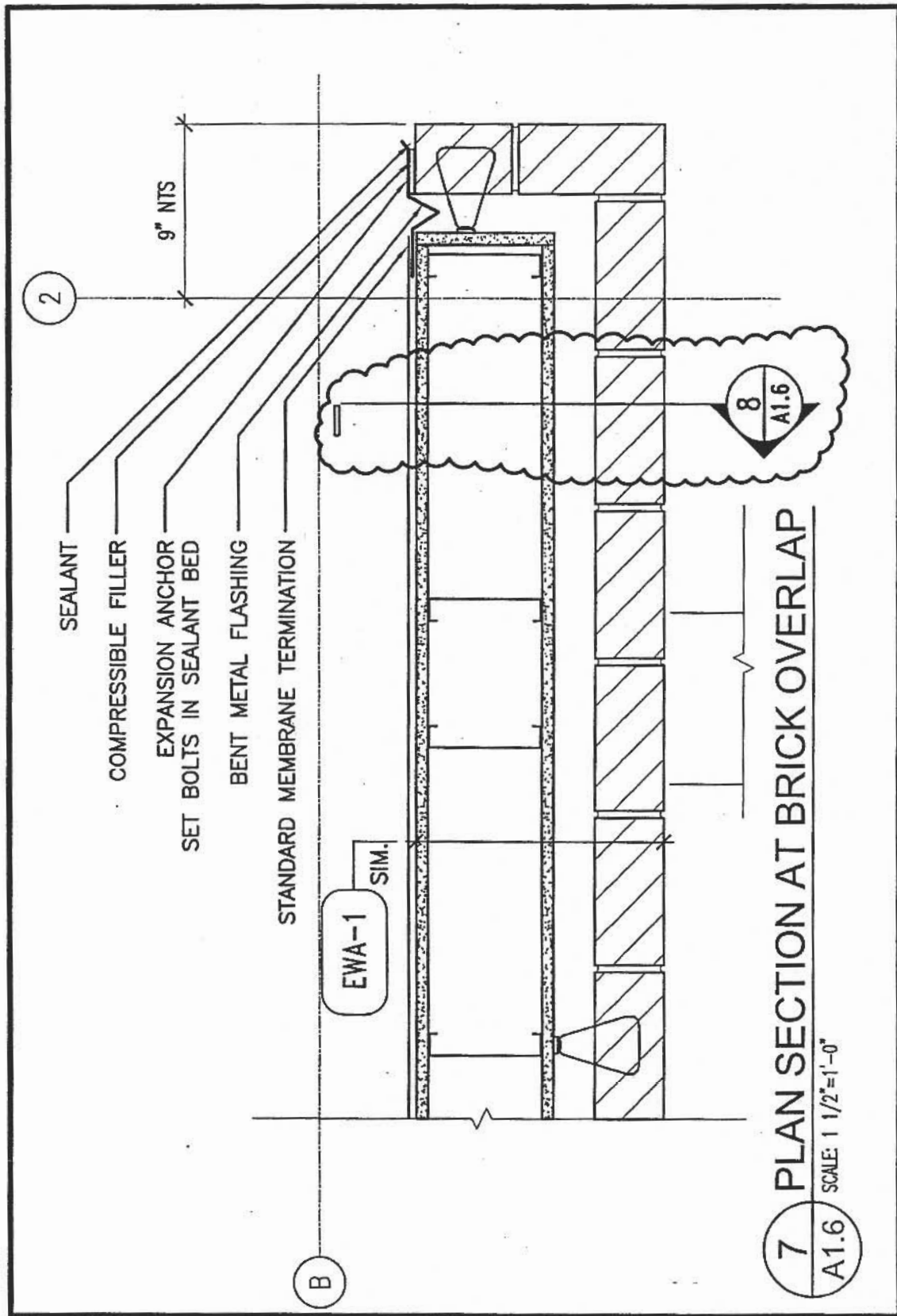


 <p>1000 Massachusetts Avenue Cambridge, MA 02138</p>	UNIVERSITY OF SOUTHERN MAINE PORTLAND CAMPUS PORTLAND, MAINE Science Building Research Wing Expansion 70 FALMOUTH STREET PORTLAND, ME 04104	DATE April 28, 2004	SKA-1
	Roof Edge at Curtain wall Pop-up Revised Detail 3/A1.6	SCALE 1-1/2" = 1'-0"	

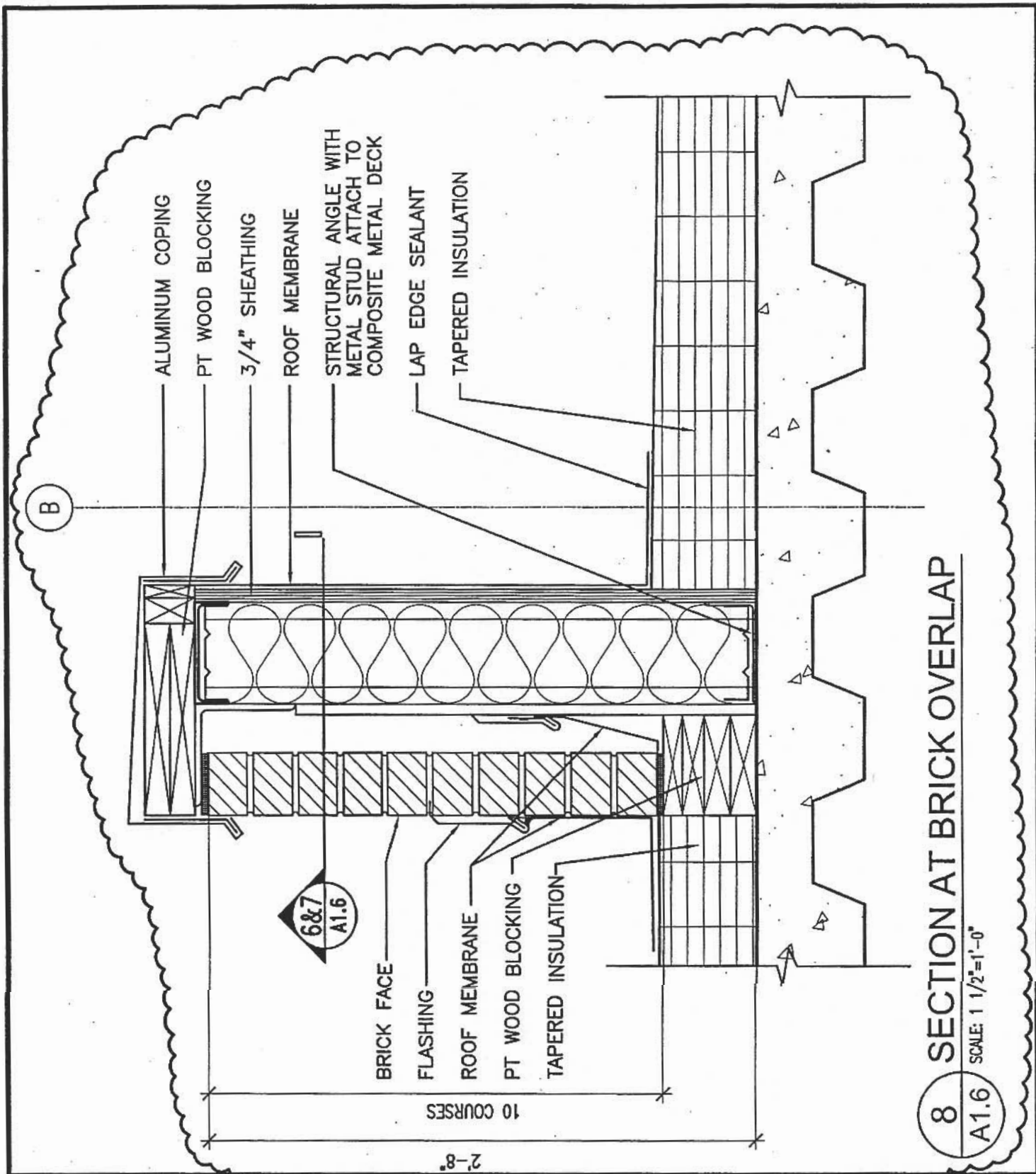


6 PLAN SECTION AT BRICK OVERLAP
 SCALE: 1 1/2"=1'-0"

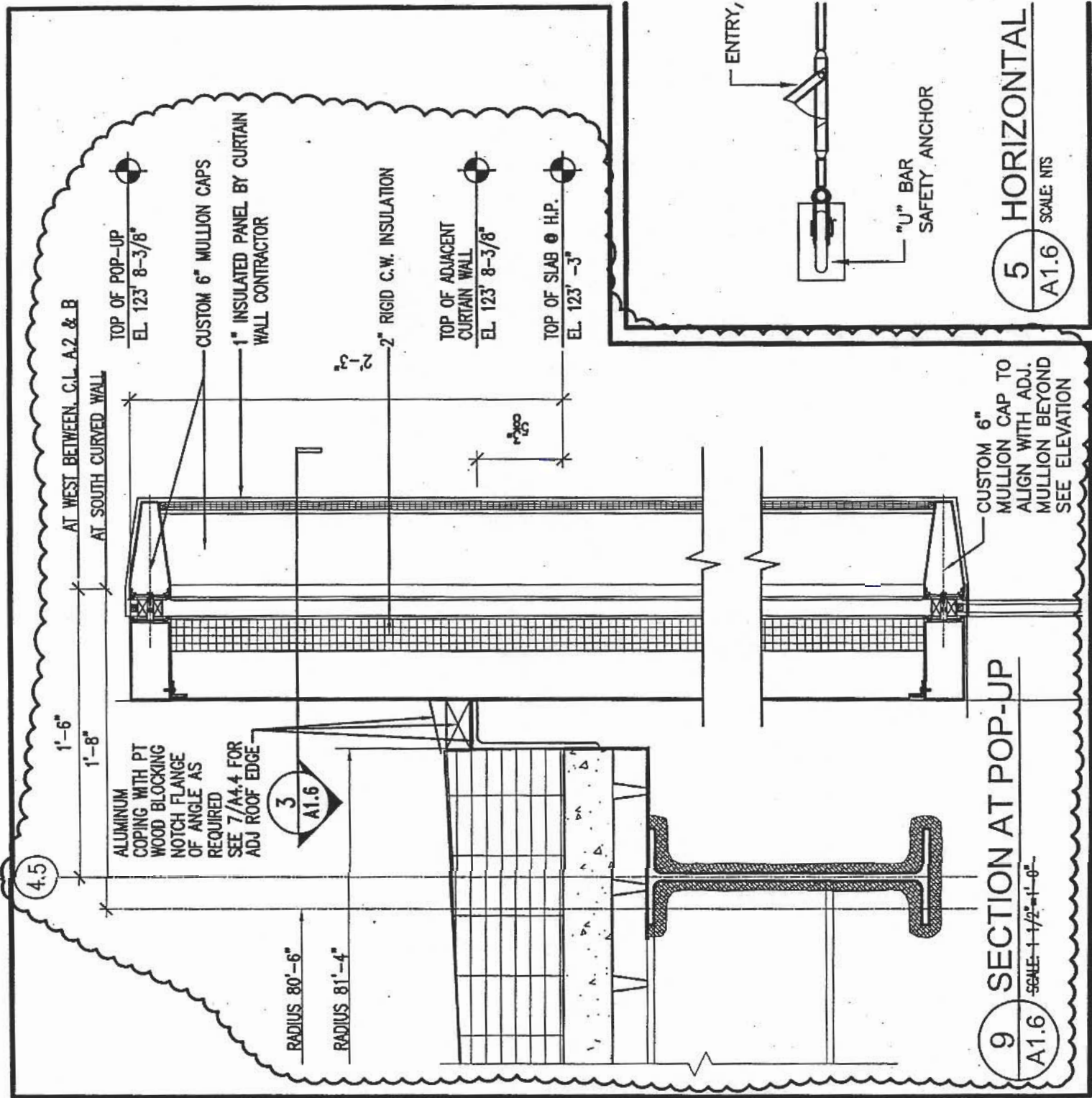
 1000 Massachusetts Avenue Cambridge, MA 02138	UNIVERSITY OF SOUTHERN MAINE PORTLAND CAMPUS PORTLAND, MAINE	DATE April 28, 2004	SKA-2
	Science Building Research Wing Expansion 70 FALMOUTH STREET PORTLAND, ME 04104	SCALE 1-1/2" = 1'-0"	
	Plan Section @ Brick Overlap Revised Detail 6/A1.6	DR. BY DAM	CK. BY



SMMA SYMMES MAINI & MCKEE ASSOCIATES 1000 Massachusetts Avenue Cambridge, MA 02138	UNIVERSITY OF SOUTHERN MAINE PORTLAND CAMPUS PORTLAND, MAINE Science Building Research Wing Expansion 70 FALMOUTH STREET PORTLAND, ME 04104	DATE April 28, 2004	SKA-3
	Plan Section @ Brick Overlap Revised Detail 7/A1.6	SCALE 1-1/2" = 1'-0"	



<p>SMMA SYMMES MAINI & MCKEE ASSOCIATES</p> <p>1000 Massachusetts Avenue Cambridge, MA 02138</p>	<p>UNIVERSITY OF SOUTHERN MAINE</p> <p>PORTLAND CAMPUS PORTLAND, MAINE</p> <p>Science Building Research Wing Expansion 70 FALMOUTH STREET PORTLAND, ME 04104</p>	<p>DATE April 28, 2004</p>	<p>SKA-4</p>	
	<p>Section @ Brick Overlap New Detail 8/A1.6</p>	<p>SCALE 1-1/2" = 1'-0"</p>		
			<p>DR. BY DAM</p>	<p>CK. BY</p>

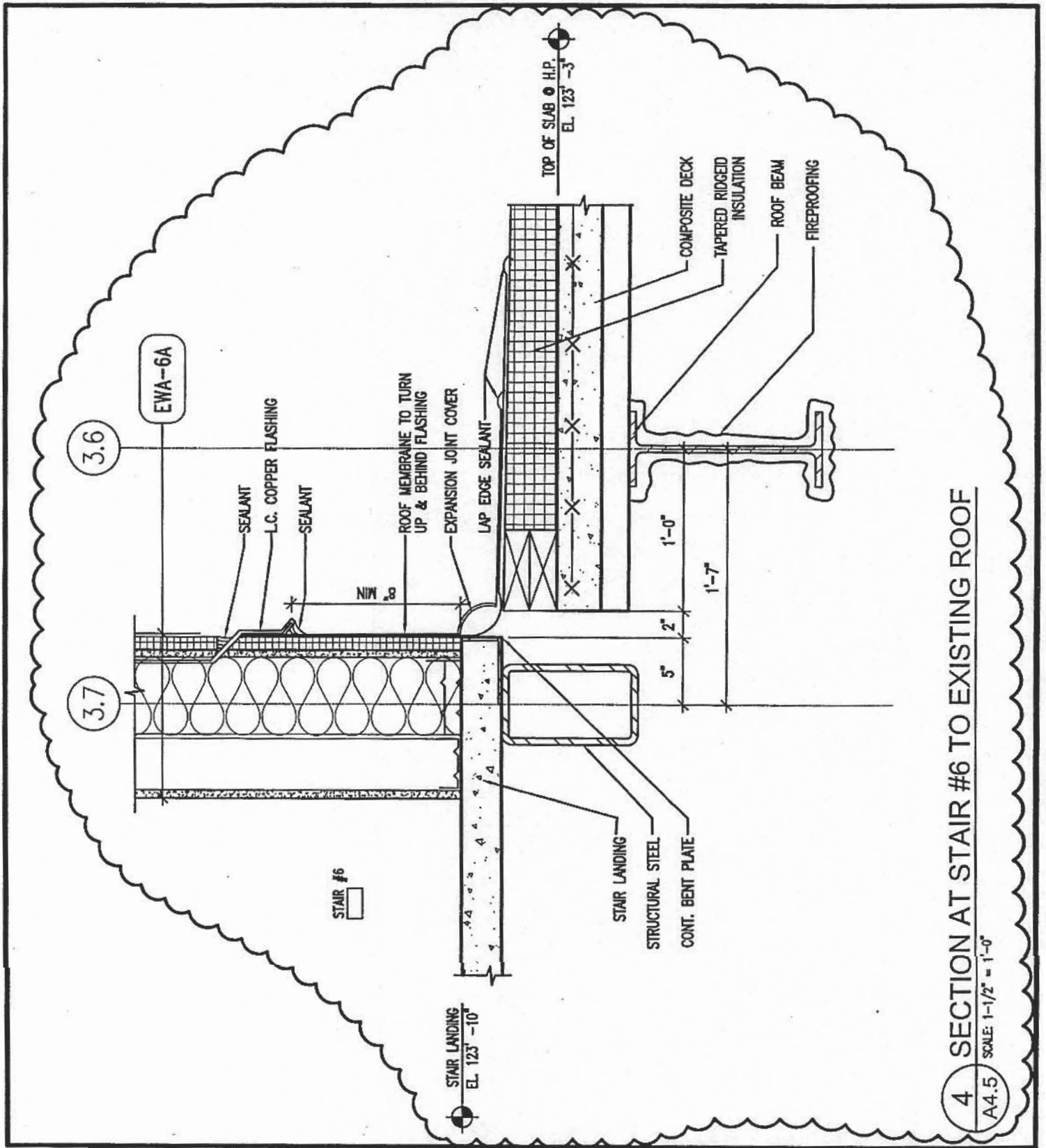


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 1000 Massachusetts Avenue
 Cambridge, MA 02138

UNIVERSITY OF SOUTHERN MAINE
 PORTLAND CAMPUS
 PORTLAND, MAINE
 Science Building Research Wing Expansion
 70 FALMOUTH STREET PORTLAND, ME 04104
 Section at Pop-up
 New Detail 9/A1.6

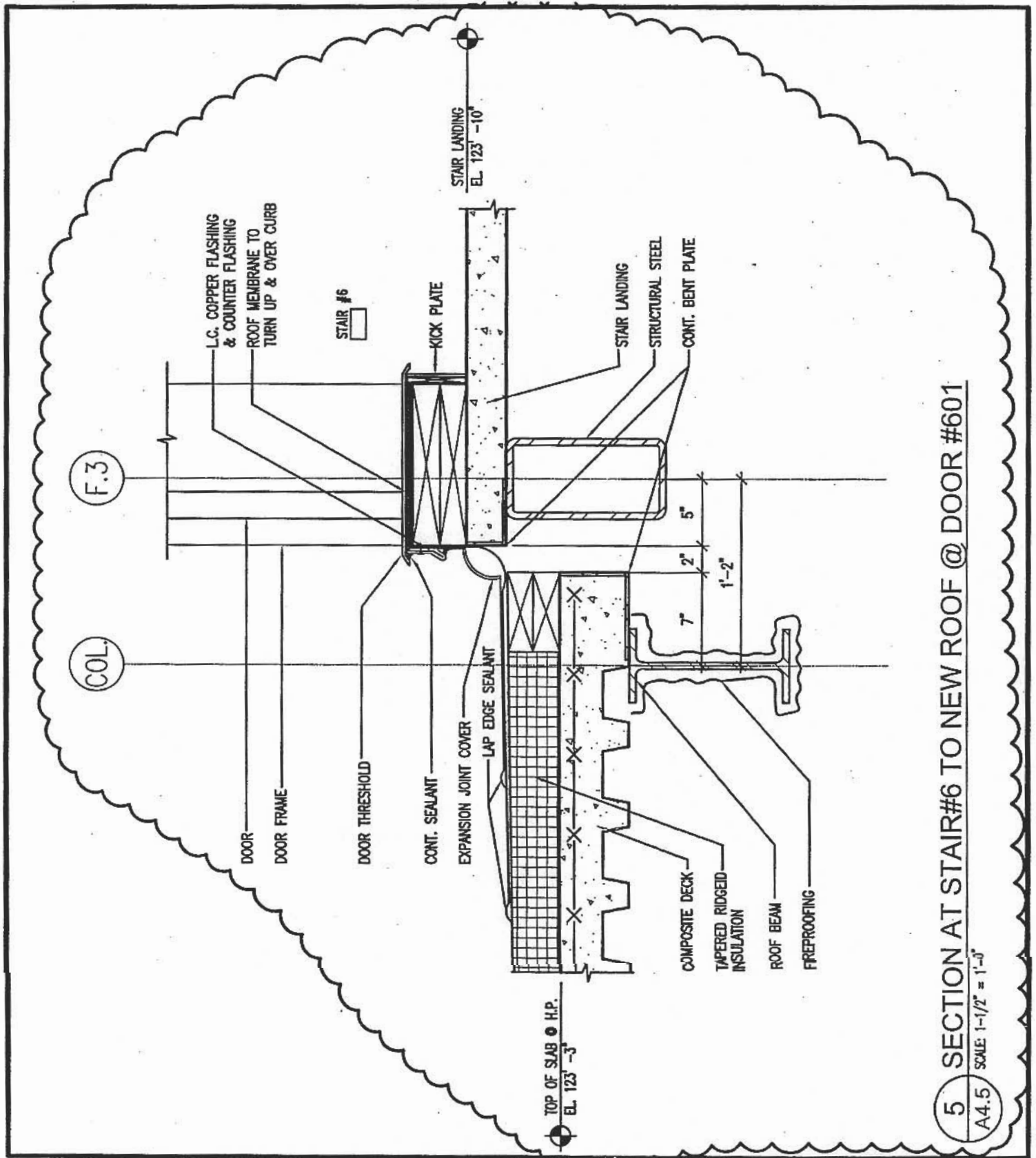
DATE
 April 28, 2004
 SCALE
 N.T.S.
 DR. BY
 DAM
 CK. BY
 JOB NO.
 03049

SKA-5



4 SECTION AT STAIR #6 TO EXISTING ROOF
 SCALE: 1-1/2" = 1'-0"

	UNIVERSITY OF SOUTHERN MAINE PORTLAND CAMPUS PORTLAND, MAINE	DATE April 28, 2004	SKA-6
	Science Building Research Wing Expansion 70 FALMOUTH STREET PORTLAND, ME 04104	SCALE 1-1/2" = 1'-0"	
1000 Massachusetts Avenue Cambridge, MA 02138	Section Stair #6 to Existing Roof New Detail 4/A4.5	DR. BY DAM	CK. BY JOB NO. 03049

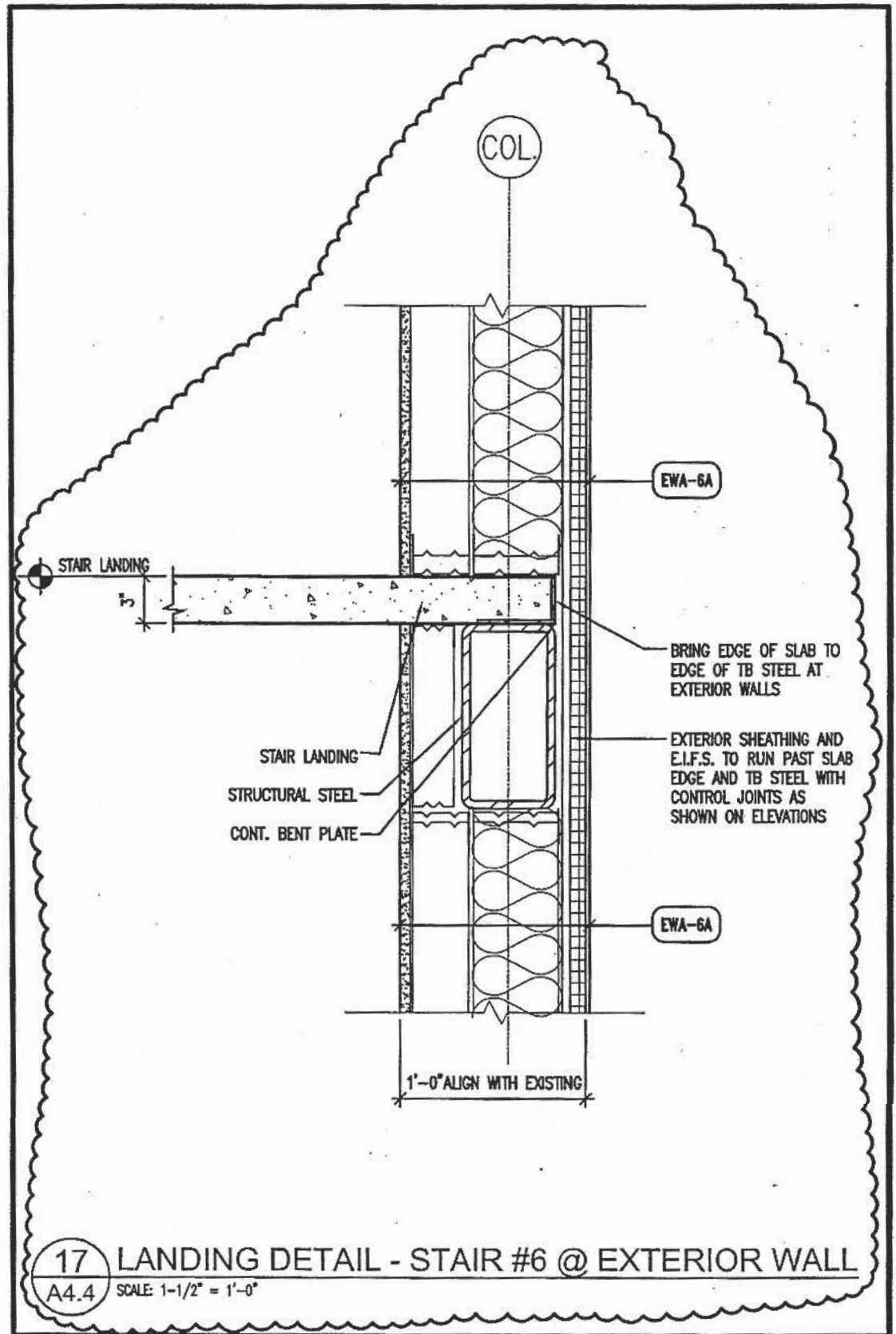


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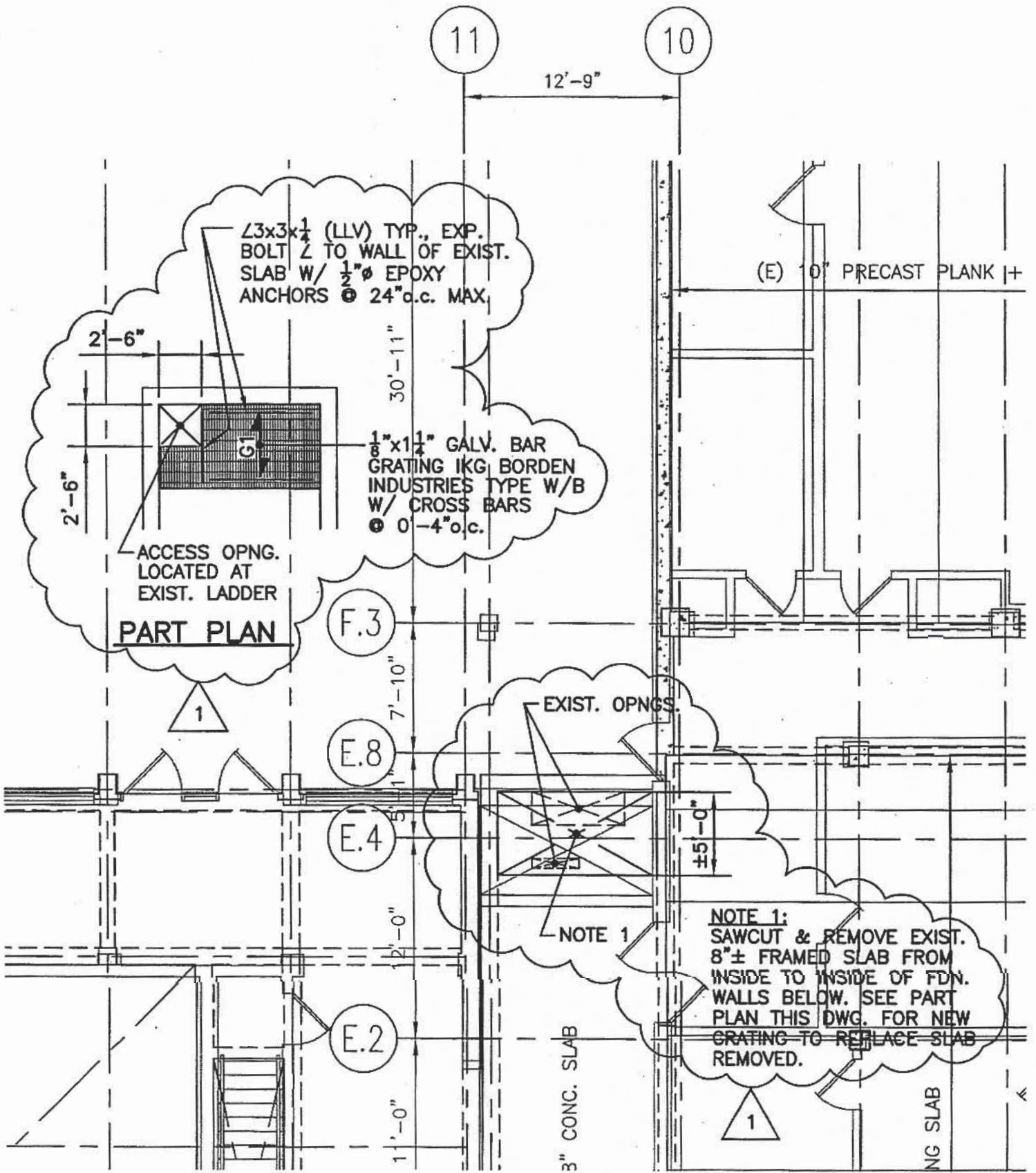
UNIVERSITY OF SOUTHERN MAINE
 PORTLAND CAMPUS
 PORTLAND, MAINE
 Science Building Research Wing Expansion
 70 FALMOUTH STREET PORTLAND, ME 04104
 Section Stair #6 to Existing Roof @ Door #601
 New Detail 5/A4.5

DATE
 April 28, 2004
 SCALE
 1-1/2" = 1'-0"
 DR. BY
 DAM
 CK. BY
 (blank)

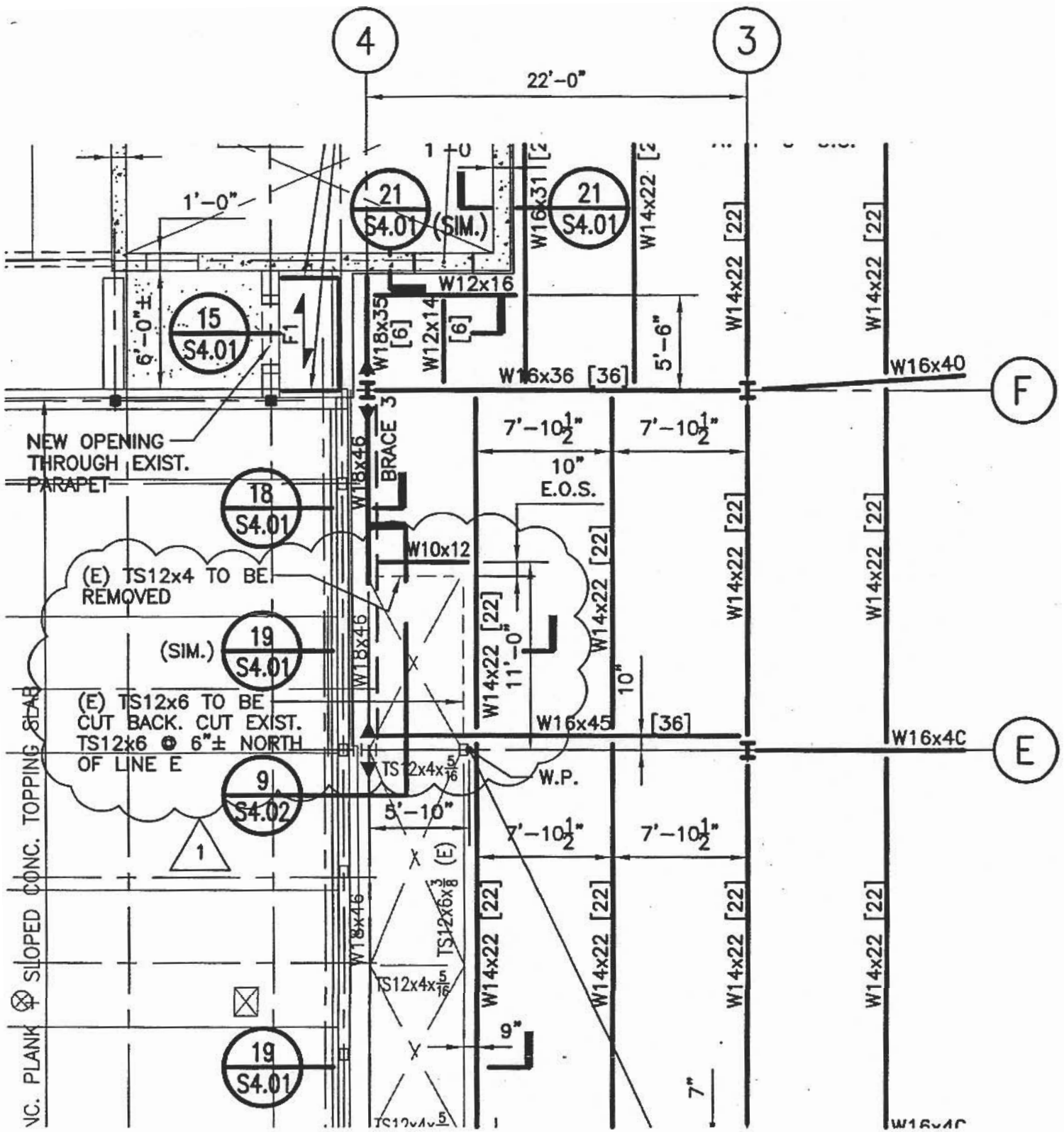
SKA-7
 JOB NO.
 03049




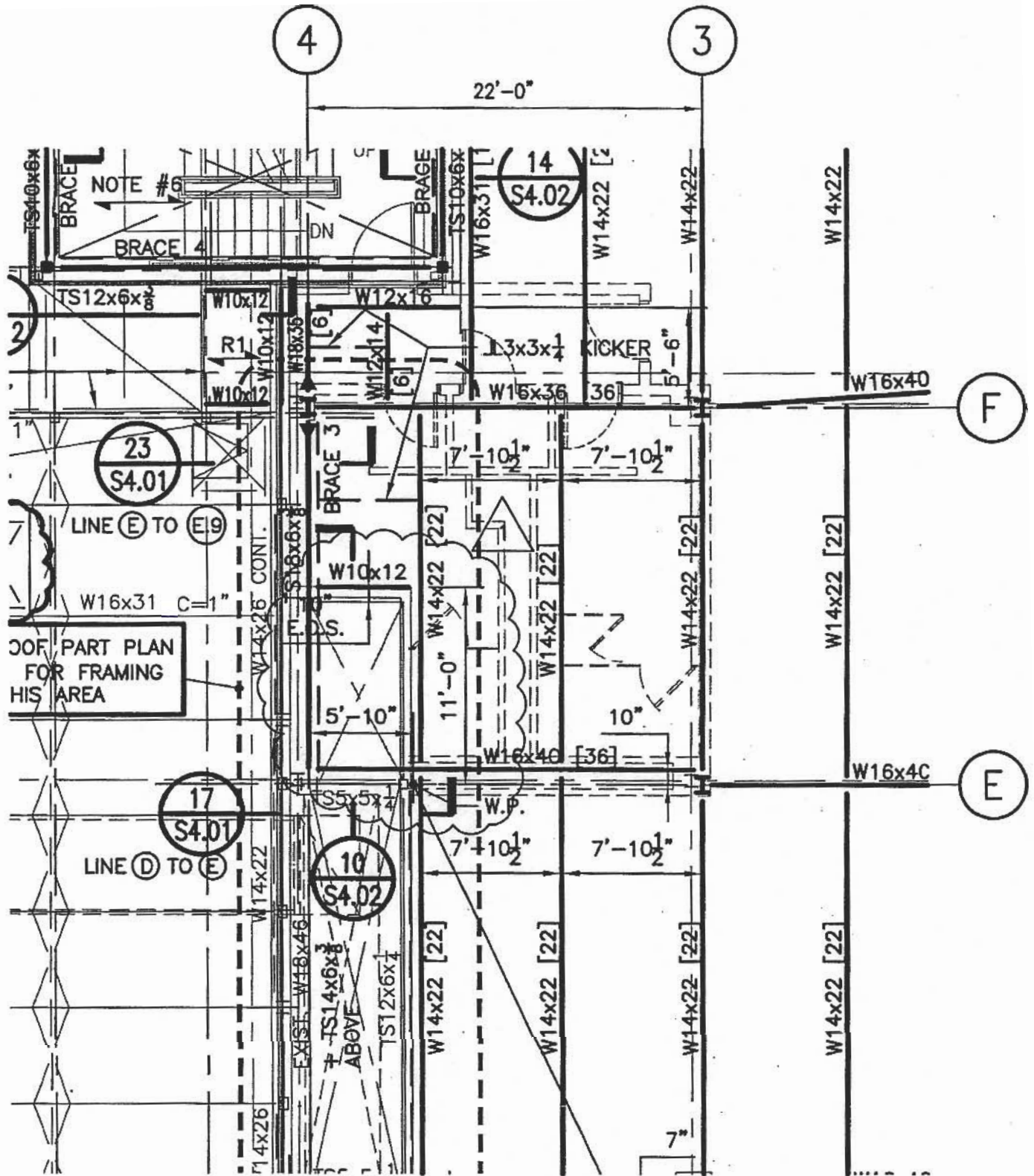
 <p>SMMA SYMMET MAINE & MCKEE ASSOCIATES</p> <p>1000 Massachusetts Avenue Cambridge, MA 02138</p>	UNIVERSITY OF SOUTHERN MAINE PORTLAND CAMPUS PORTLAND, MAINE		DATE April 28, 2004	SKA-8
	Science Building Research Wing Expansion 70 FALMOUTH STREET PORTLAND, ME 04104		SCALE 1-1/2" = 1'-0"	
	Landing detail - Stair#6@ Exterior Wall New Detail 17/A4.4		DR. BY DAM	CK. BY



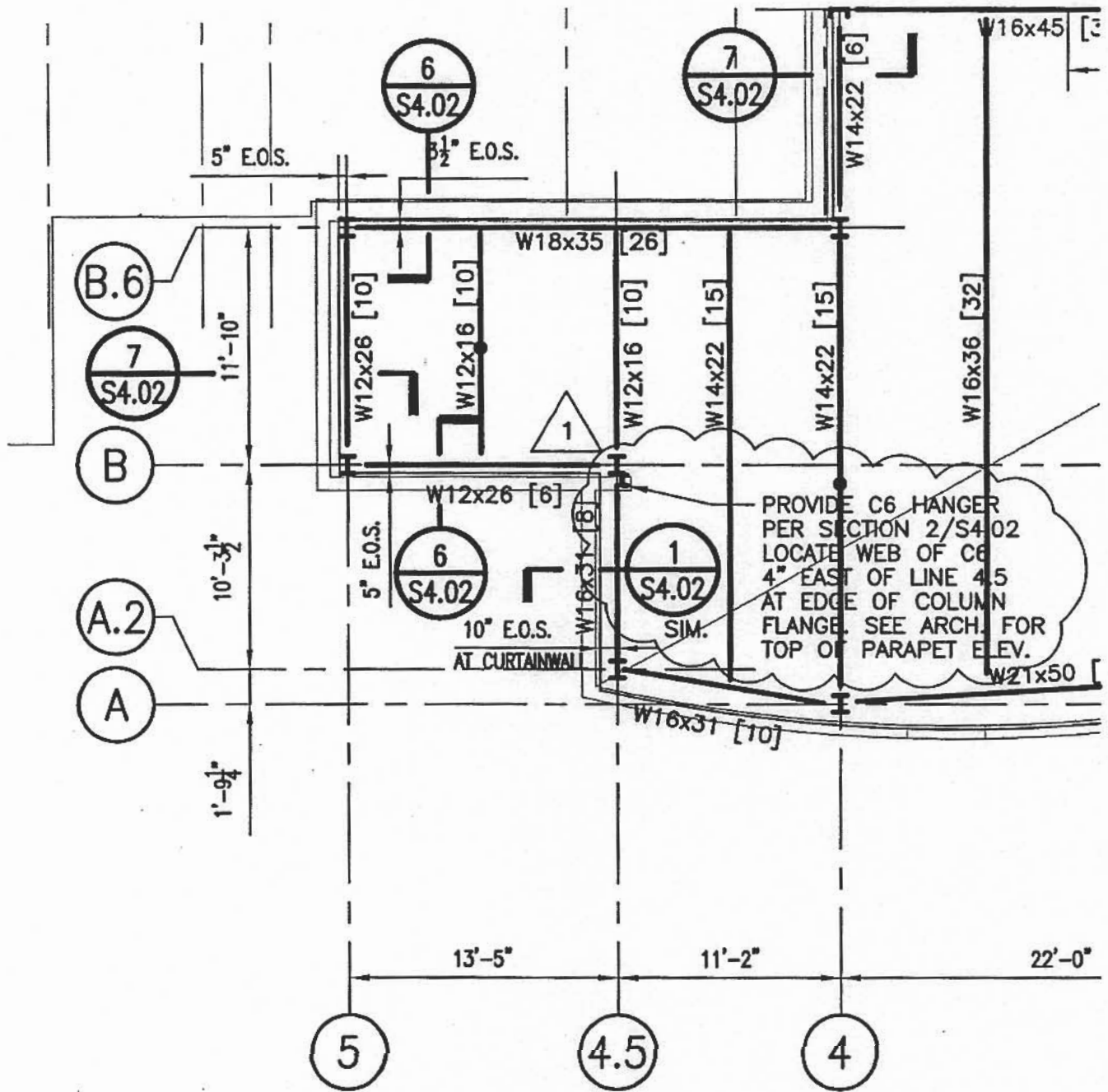
<p>SMMA SYMMES MAINI & MCKEE ASSOCIATES</p> <p>1000 Massachusetts Avenue Cambridge, MA 02138</p>	<p>UNIVERSITY OF SOUTHERN MAINE SCIENCE BUILDING RESEARCH WING EXPANSION 70 FALMOUTH STREET PORTLAND, MAINE</p>	<p>DATE 4-27-04</p>	<p>ADD-1 SKS-1</p>
	<p>PART FIRST FLOOR PLAN REFERENCE DWG. S1.11</p>	<p>SCALE 1/8" = 1'-0"</p>	
	<p>DR. BY RTL</p>	<p>CK. BY PL</p>	<p>JOB NO. 03049.00</p>




 <p>SMMA SYMME MAINI & MCKEE ASSOCIATES</p> <p>1000 Massachusetts Avenue Cambridge, MA 02138</p>	UNIVERSITY OF SOUTHERN MAINE SCIENCE BUILDING RESEARCH WING EXPANSION 70 FALMOUTH STREET PORTLAND, MAINE	DATE	4-27-04		ADD-1 SKS-2
		SCALE	1/8" = 1'-0"		
	PART FOURTH FLOOR PLAN REFERENCE DWG. S1.41	DR. BY	CK. BY	JOB NO.	
	RTL	PL	03049.00		

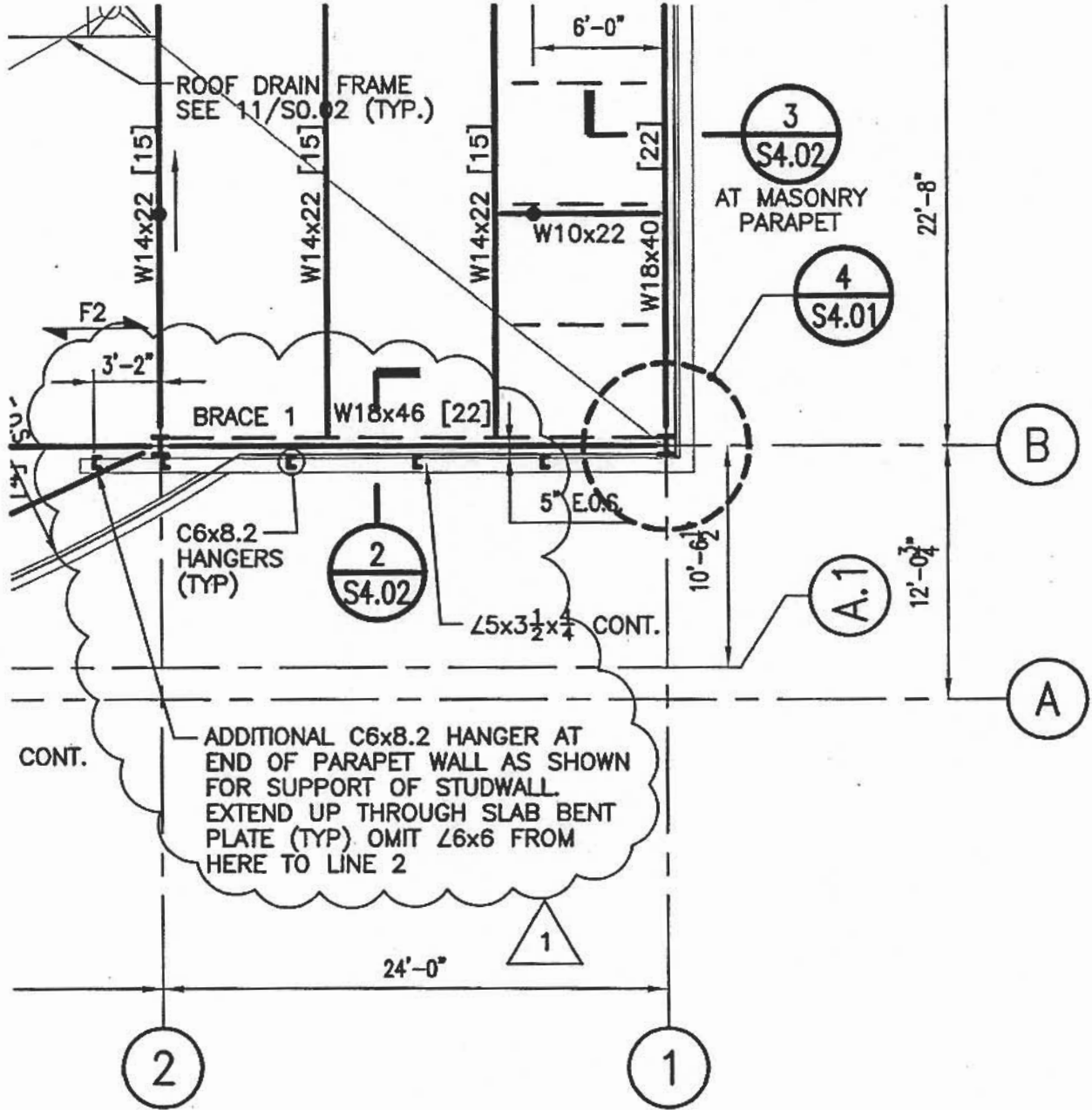



 1000 Massachusetts Avenue Cambridge, MA 02138	UNIVERSITY OF SOUTHERN MAINE SCIENCE BUILDING RESEARCH WING EXPANSION 70 FALMOUTH STREET PORTLAND, MAINE		DATE 4-27-04	ADD-1 SKS-3
	PART FIFTH FLOOR PLAN REFERENCE DWG. S1.51		SCALE 1/8" = 1'-0"	
			DR. BY RTL	CK. BY PL

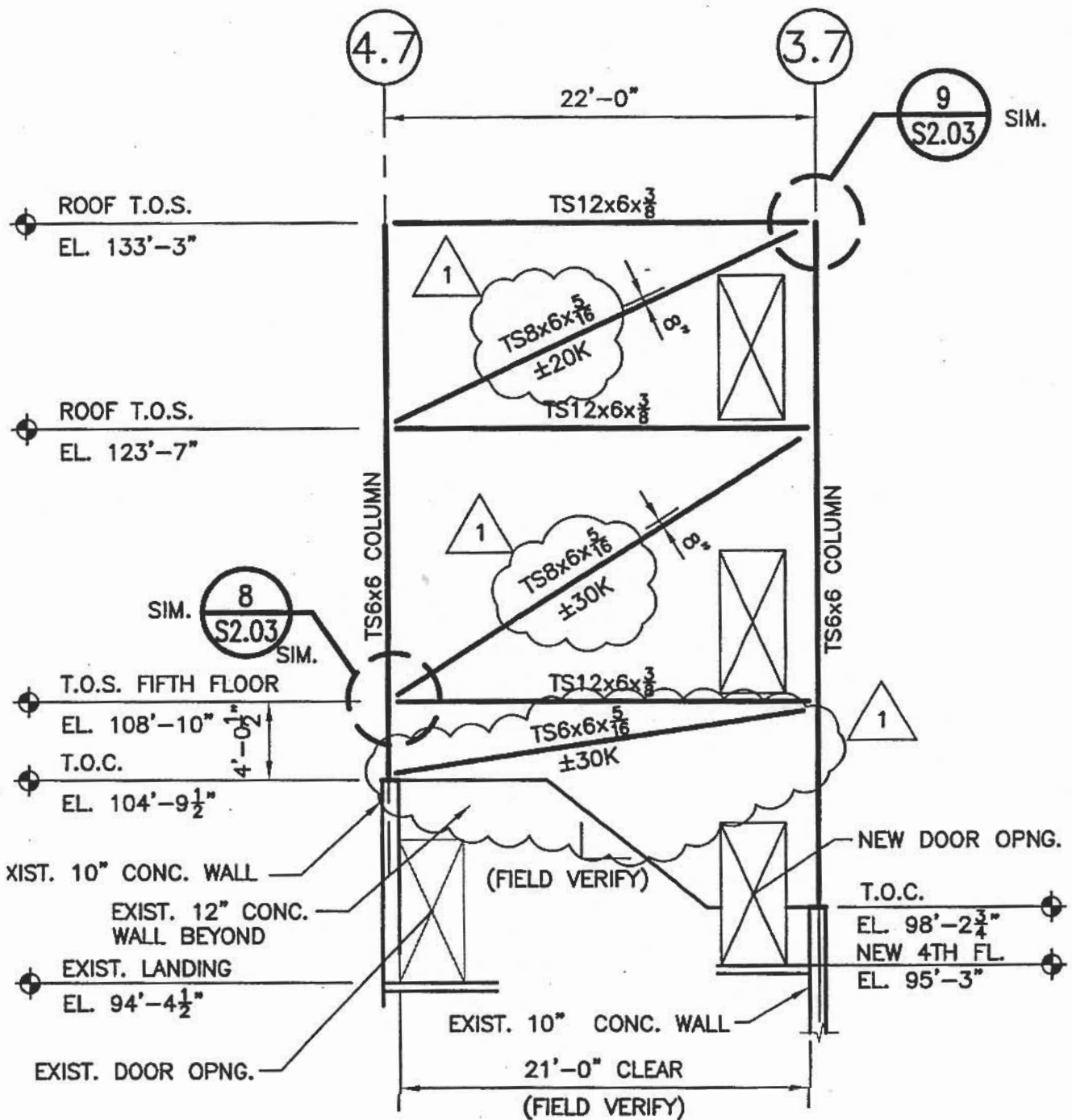


PROVIDE C6 HANGER
 PER SECTION 2/S4.02
 LOCATE WEB OF C6
 4" EAST OF LINE 4.5
 AT EDGE OF COLUMN
 FLANGE. SEE ARCH. FOR
 TOP OF PARAPET ELEV.


 <p>SMMA <small>SYMME MAINI & MCKEE ASSOCIATES</small></p> <p>1000 Massachusetts Avenue Cambridge, MA 02138</p>	UNIVERSITY OF SOUTHERN MAINE SCIENCE BUILDING RESEARCH WING EXPANSION 70 FALMOUTH STREET PORTLAND, MAINE	DATE 4-27-04	ADD-1 SKS-4
	PART ROOF FRAMING PLAN REFERENCE DWG. 1.61	SCALE 1/8"=1'-0"	
			DR. BY RTL
			JOB NO. 03049.00

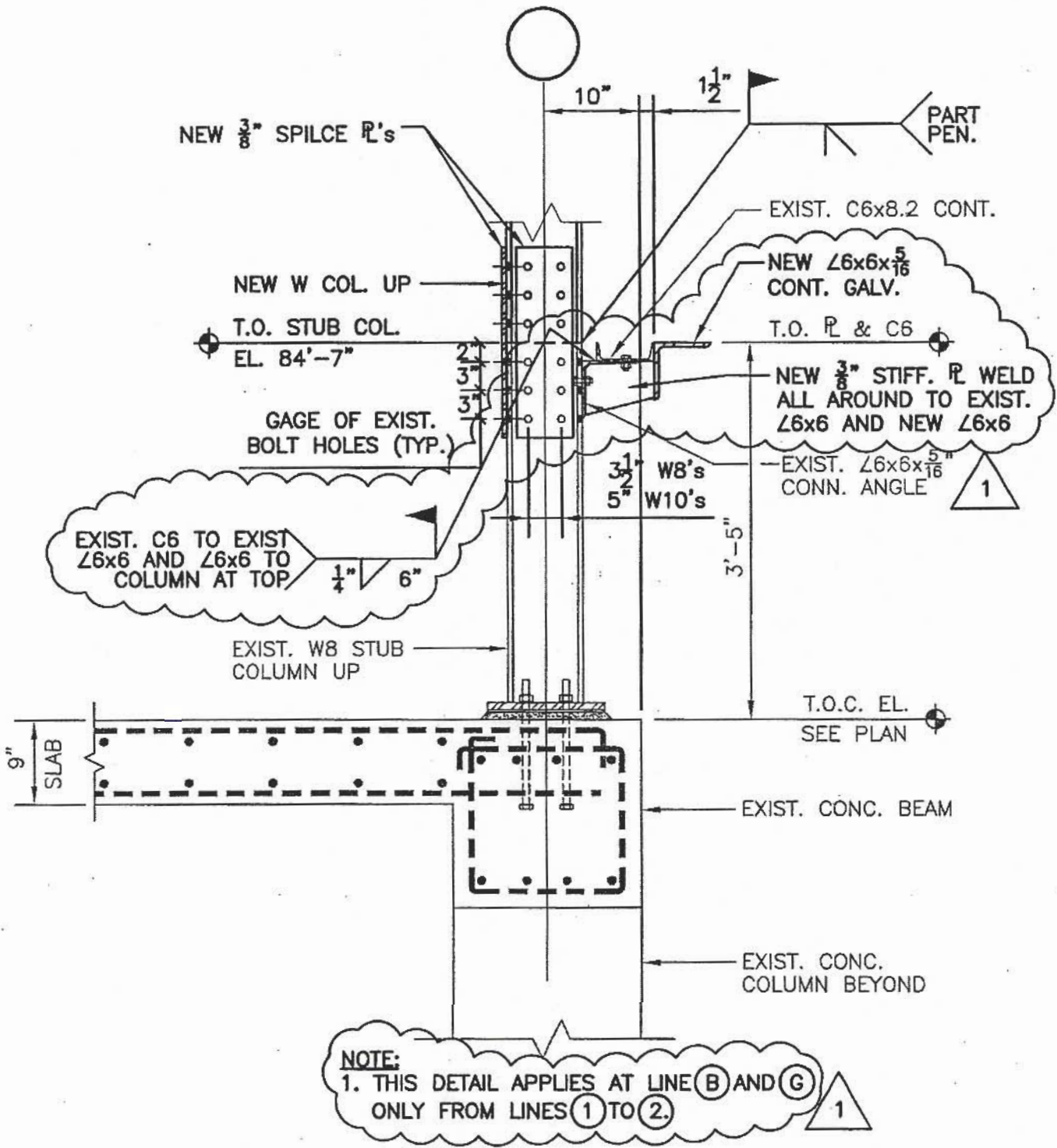



 <p>SYMMES MAINI & MCKEE ASSOCIATES</p> <p>1000 Massachusetts Avenue Cambridge, MA 02138</p>	UNIVERSITY OF SOUTHERN MAINE SCIENCE BUILDING RESEARCH WING EXPANSION 70 FALMOUTH STREET PORTLAND, MAINE	DATE	4-27-04		ADD-1 SKS-5	
		SCALE	1/8"=1'-0"			
	PART ROOF FRAMING PLAN REFERENCE DWG. S1.61	DR. BY	RTL	CK. BY	PL	JOB NO.

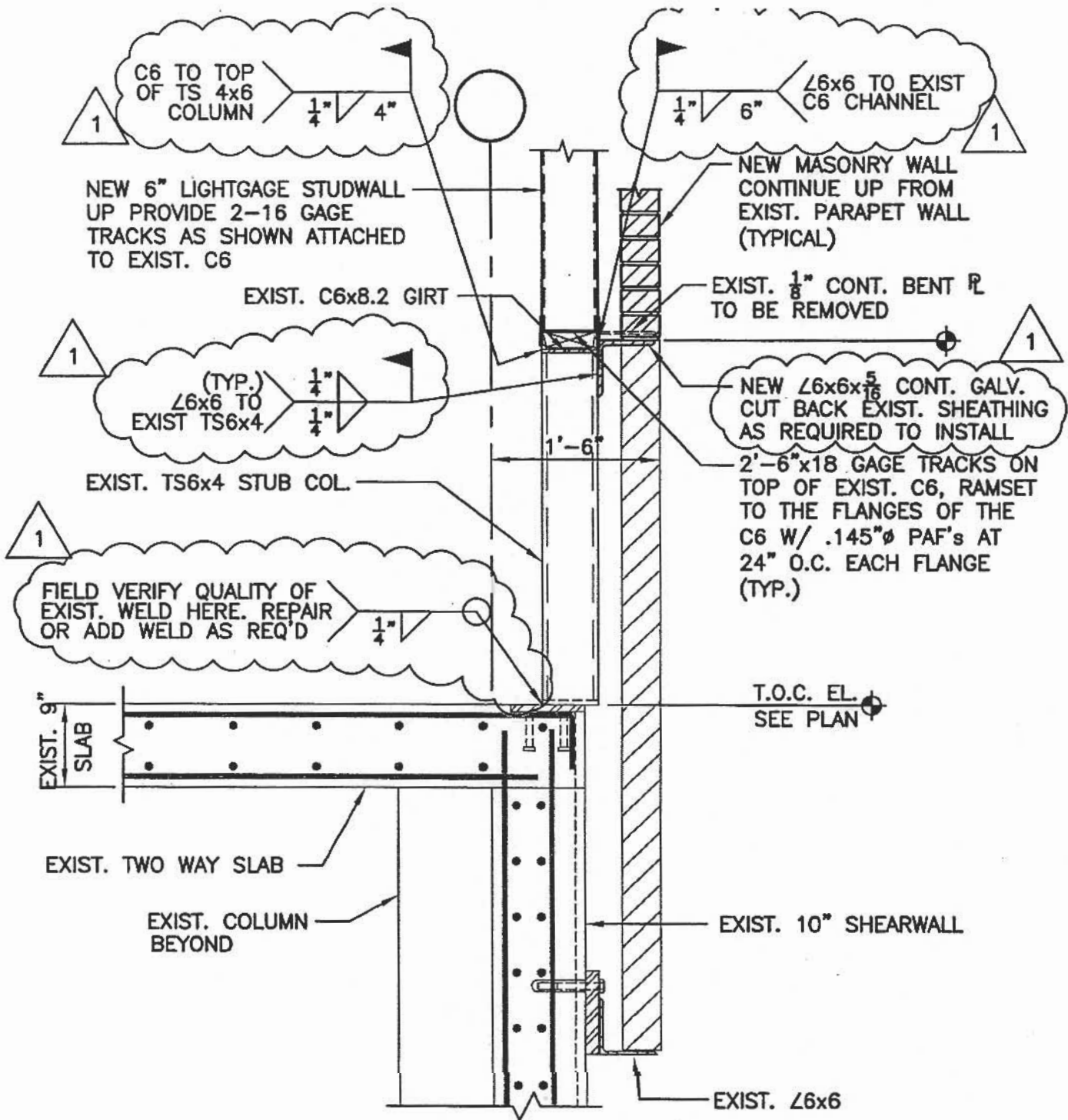



NOTE:
 CHANGE BRACE NO. 4 INDICATED ON LINE F.3
 ON THE PLANS TO BRACE NO. 7 SHOWN HERE.

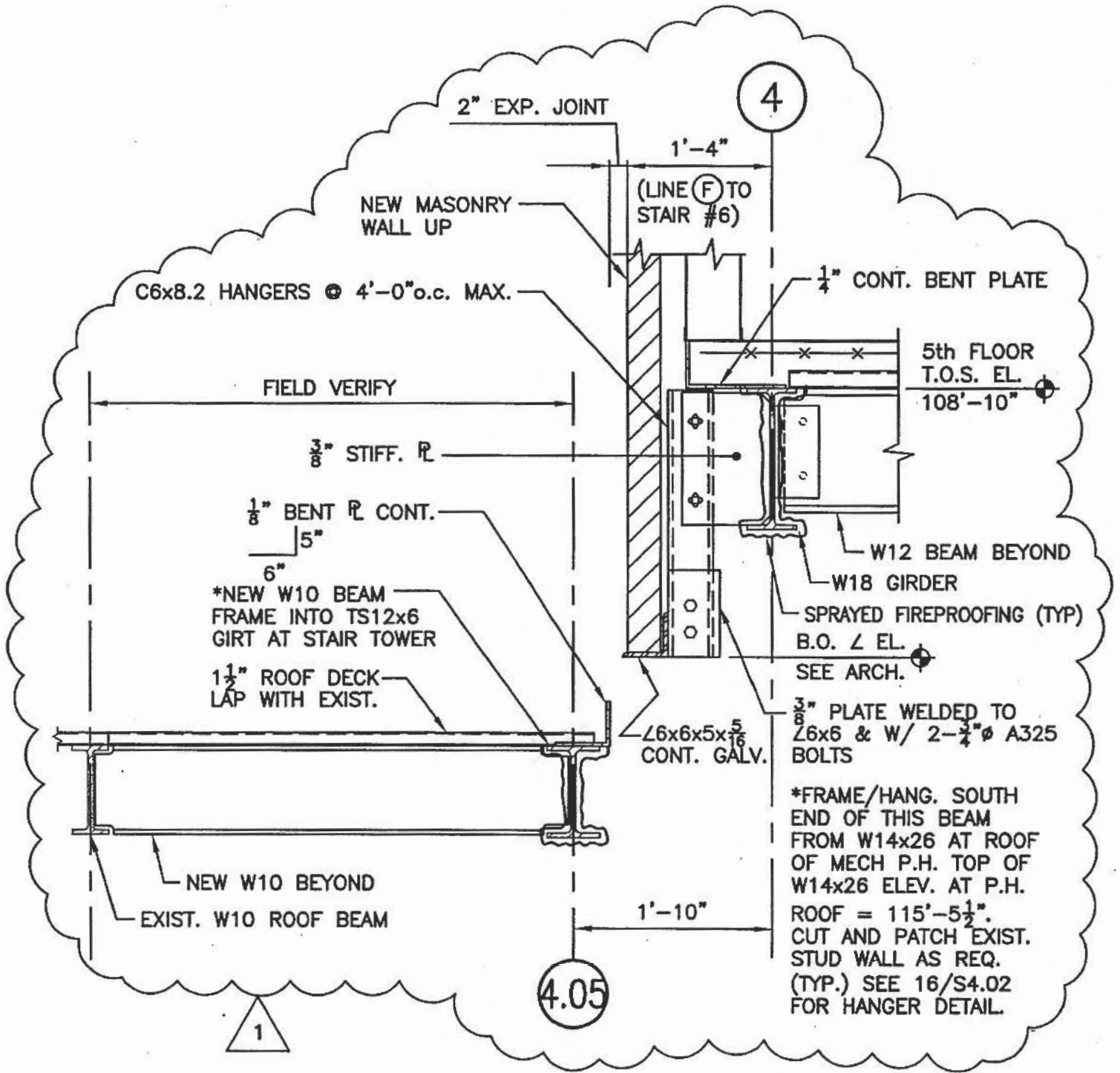
 SYMMES MAINI & MCKEE ASSOCIATES 1000 Massachusetts Avenue Cambridge, MA 02138	UNIVERSITY OF SOUTHERN MAINE SCIENCE BUILDING RESEARCH WING EXPANSION 70 FALMOUTH STREET PORTLAND, MAINE	DATE	4-27-04		ADD-1 SKS-6
		SCALE	1/8"=1'-0"		
REVISED BRACE NO. 7 SOUTH ELEVATION REFERENCE DWG. S2.03		DR. BY	CK. BY	JOB NO.	03049.00
		RTL	PL		




 <p>SYMMES MAINI & MCKEE ASSOCIATES</p> <p>1000 Massachusetts Avenue Cambridge, MA 02138</p>	<p>UNIVERSITY OF SOUTHERN MAINE SCIENCE BUILDING RESEARCH WING EXPANSION 70 FALMOUTH STREET PORTLAND, MAINE</p>	DATE	4-27-04	<p>ADD-1 SKS-7</p>
		SCALE	3/4"=1'-0"	
<p>NEW DETAIL REFERENCE 2a/S4.01</p>	DR. BY	CK. BY	JOB NO.	
	RTL	PL	03049.00	



 <p>SYMMES MAINI & MCKEE ASSOCIATES</p> <p>1000 Massachusetts Avenue Cambridge, MA 02138</p>	<p>UNIVERSITY OF SOUTHERN MAINE SCIENCE BUILDING RESEARCH WING EXPANSION 70 FALMOUTH STREET PORTLAND, MAINE</p>	<p>DATE 4-27-04</p>		<p>ADD-1 SKS-8</p>
		<p>SCALE 3/4"=1'-0"</p>		
<p>REVISED DETAIL REFERENCE 20/S4.01</p>	<p>DR. BY RTL</p>	<p>CK. BY PL</p>	<p>JOB NO. 03049.00</p>	



 <p>SMMA SYMMES MAINI & MCKEE ASSOCIATES</p> <p>1000 Massachusetts Avenue Cambridge, MA 02138</p>	<p>UNIVERSITY OF SOUTHERN MAINE SCIENCE BUILDING RESEARCH WING EXPANSION 70 FALMOUTH STREET PORTLAND, MAINE</p>	DATE	4-27-04		ADD-1 SKS-9
		SCALE	3/4"=1'-0"		
REVISED DETAIL REFERENCE 13/S4.02	DR. BY	CK. BY	JOB NO.		
	RTL	PL	03049.00		

277/480V, 3 ϕ , 4W
400A MLO

S.C.I. = 35,000A
MECH. PENTHOUSE RM.

PANELBOARD "MDPP" (EXISTING)

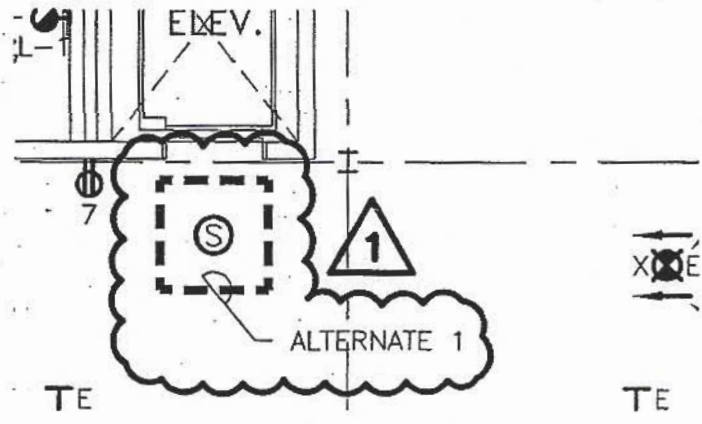
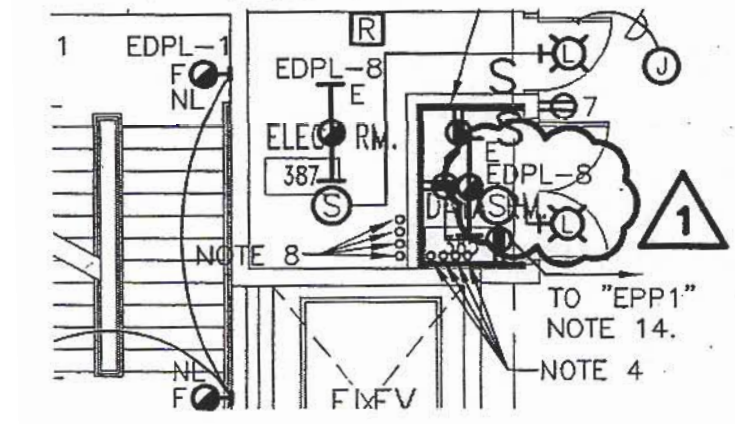
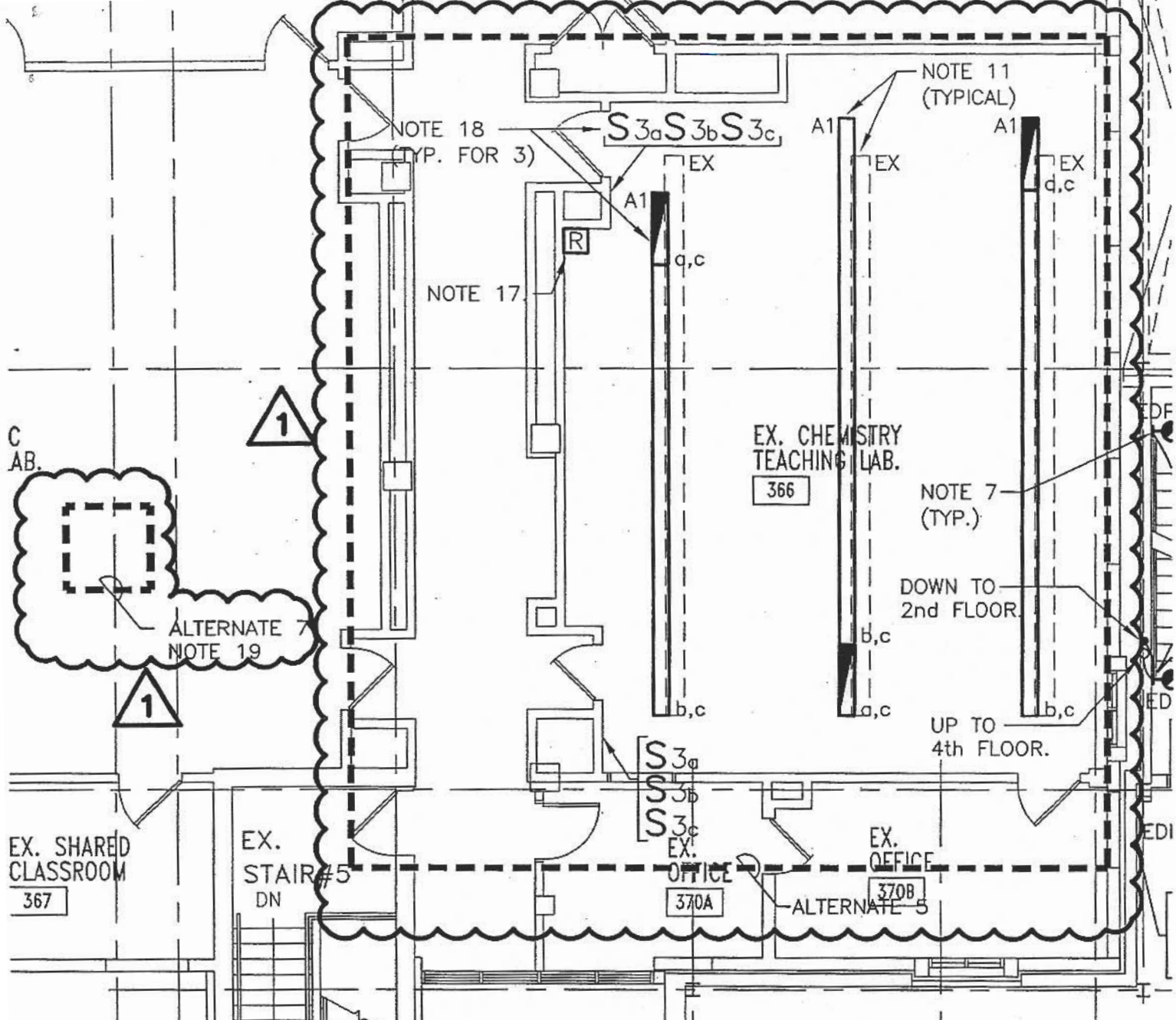
CKT. NO.	CKT. AMPS	BKR. POLES	LOAD (CONN.)		FEEDER	EQUIPMENT
			HP	KVA		
1	100	3	50.0	54.0	1" C. - 3#4 & 1#8GND.	AHU-3
2	30	3	-	10.0	1" C. - 3#10 & 1#10GND.	15 KVA TRANSFORMER (PANEL "MPP")
3	125	3	60	64.0	1 1/2" C. - 3#2 & 1#6GND.	AHU-4
4	70	3	25.0	28	3/4" C. - 3#8 & 1#8GND.	EF-22
5	50	3	15.0	17.5	5/4" C. - 3#10 & 1#10GND.	PUMP P-6
6	50	3	15.0	17.5	3/4" C. - 3#10 & 1#10GND.	PUMP P-7
7	20	1	-	2.0	1/2" C. - 2#12 & 1#12GND.	LIGHTING
8	15	3	0.5	0.9	1/2" C. - 3#12 & 1#12GND.	EF-4
9	15	3	0.5	0.9	1/2" C. - 3#12 & 1#12GND.	EF-9
10	15	3	2.0	2.8	1/2" C. - 3#12 & 1#12GND.	EF-8
11	15	3	0.5	0.9	1/2" C. - 3#12 & 1#12GND.	EF-10

N.I.C.
NOTE 1
NOTE 1
ALTERNATE 5


LIGHTING FIXTURE SCHEDULE

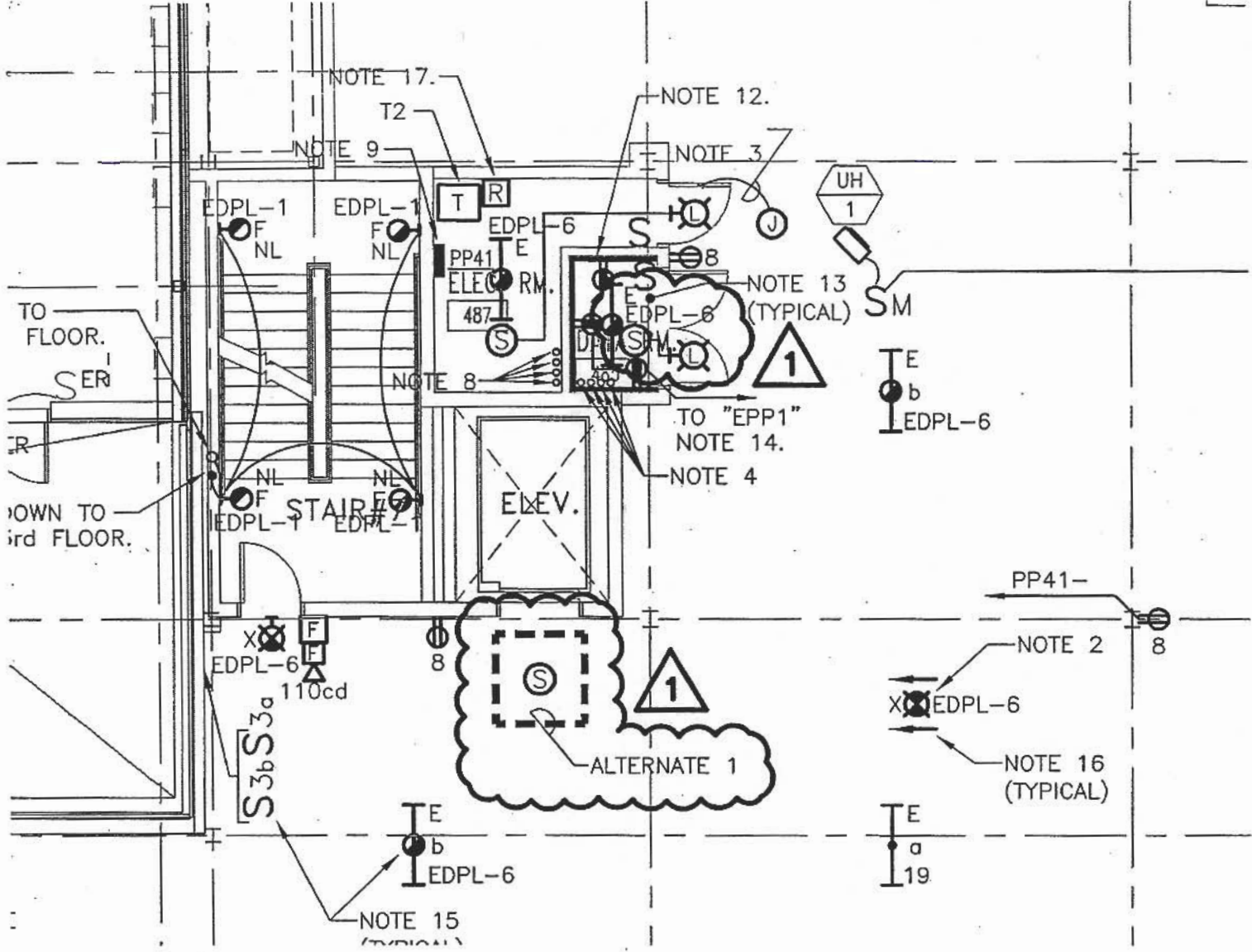
FIXT. TYPE	MANUFACTURER	CATALOG NO.	VOLTS	NO. OF LAMPS	LAMP TYPE	MOUNTING	DESCRIPTION
A1	CORELITE	NAVIGATOR NBLM3T8-2C-AC ②	277	3 ①	F032/835/XPS/ECO OR F32T8/SXL/SP35/ECO	PENDANT 7'-6" A.F.F. TO BOTTOM	DIRECT/INDIRECT FIXTURE, 30% UP/ DOUBLE-SWITCHED WITH FIELD-ADJ AIRCRAFT CABLE. FOR FIXTURE LENG PLANS.
E	METALUX	IA-232 ②	277	2	F032/835/XPS/ECO OR F32T8/SXL/SP35/ECO	CHAIN-MTD.	4' FLUORESCENT INDUSTRIAL FIXT WITH 5% UPLIGHT

① NUMBER OF LAMPS IN CROSS SECTION.
② PROVIDE MATCHING SYLVANIA QUICKTRONIC OR GE ULTRAMAX BALLASTS.



REFER TO DWG. E1.3

 <p>Symmes, Maini & McKee Associates 1000 Massachusetts Avenue Cambridge, MA 02138</p>	<p align="center">UNIVERSITY OF SOUTHERN MAINE PORTLAND, MAINE</p>	DATE	04/28/04	SKE-02
		SCALE	1/8"=1'-0"	
THIRD FLOOR POWER & LIGHTING REVISION		DR. BY	CK. BY	JOB NO.
		CDN	SD	03049.00




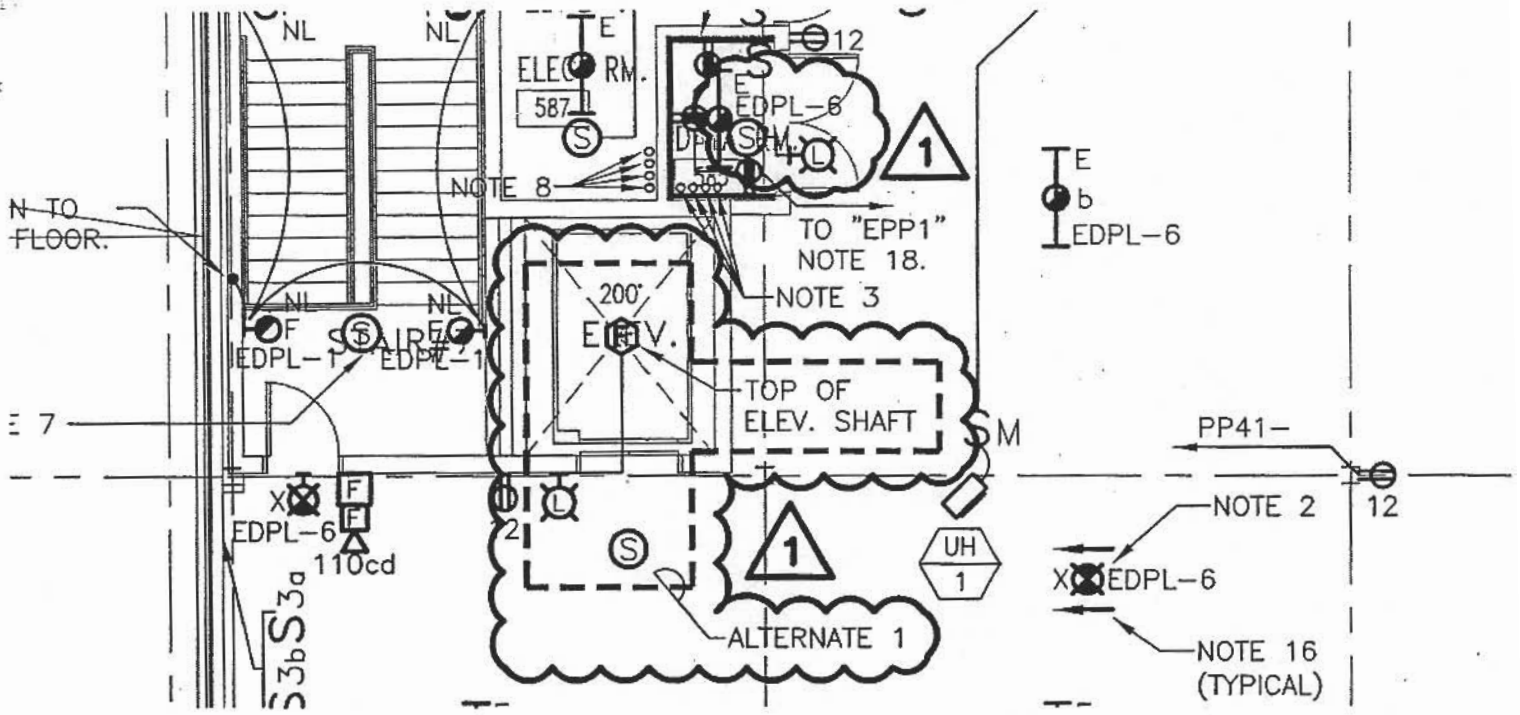
11. DUE TO CEILING LOWERING IN THIS ROOM, EXISTING LIGHTING FIXTURES SHALL BE DISCONNECTED AND REMOVED. NEW LIGHTS TYPE "A1" SHALL BE WIRED TO EXISTING LIGHTING CIRCUIT. PROVIDE NEW SWITCHING ARRANGEMENT AS INDICATED. SWITCHES "a" & "b" CONTROL ALL OUTER LAMPS, SWITCH "c" CONTROLS ALL INNER LAMPS. 1

12. PROVIDE 3/4" THICK, 8' HIGH PLYWOOD BOARD, PAINTED BLACK WITH FIRE RESISTANT SWITCH BYPASS RELAY LOCATED IN THIS ROOM, REFER TO NOTE 17 FOR LOCATION. FOR WIRING DIAGRAM REFER TO DETAIL ON DRAWING EO.1.

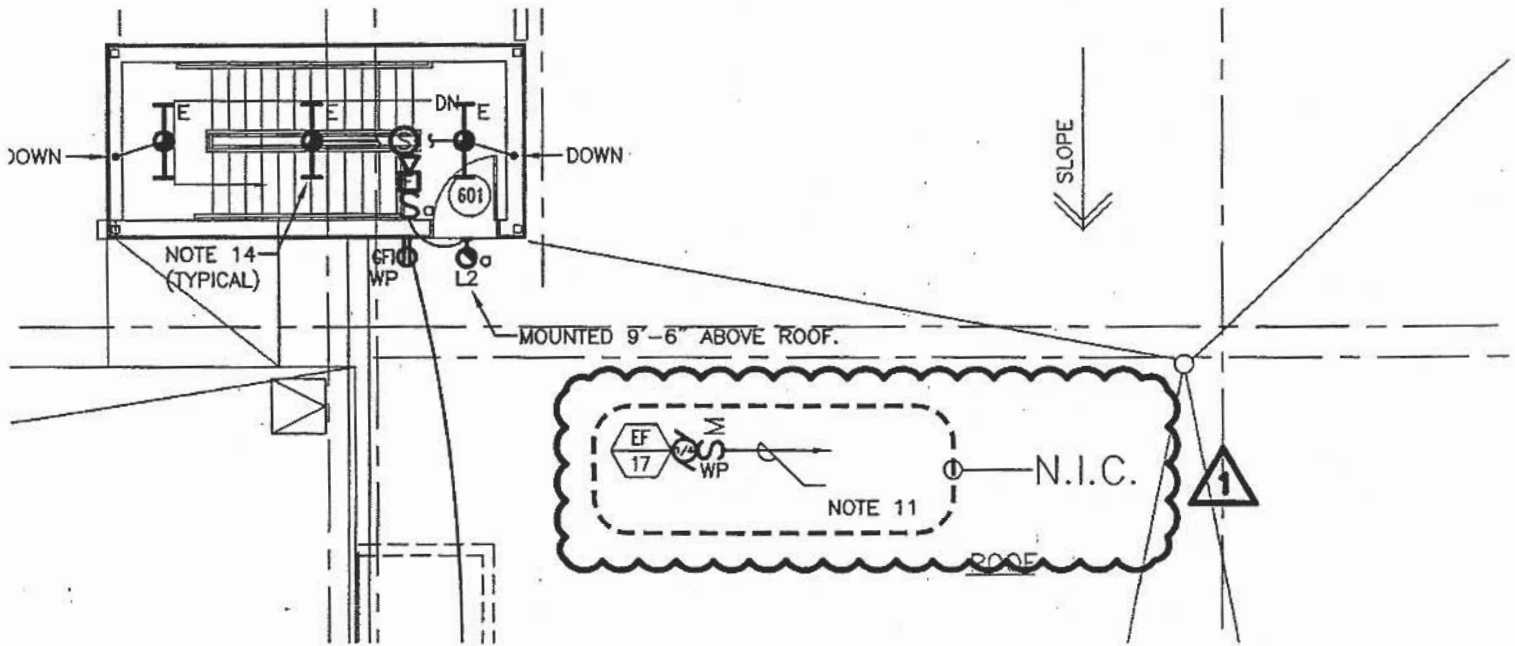
19. ALTERNATE 7 SCOPE OF WORK CONSISTS OF: DUE TO EXTERIOR WALL RENOVATION DISCONNECT EXISTING ROOF-MOUNTED CONDENSING UNIT (LOCATED AT INTERSECTION OF GRIDS C AND 10, REFER TO ARCHITECTURAL ELEVATION DETAIL A3/2.2), RE-INSTALL ASSOCIATED EXISTING EXTERIOR DISCONNECT SWITCH AND RE-CONNECT CONDENSING UNIT. 1

REFER TO DWG. E1.3

 Symmes, Maini & McKee Associates 1000 Massachusetts Avenue Cambridge, MA 02138	UNIVERSITY OF SOUTHERN MAINE PORTLAND, MAINE		DATE 04/28/04	SKE-03
			SCALE 1/8"=1'-0"	
	FOURTH FLOOR POWER & LIGHTING REVISION		DR. BY CDN	CK. BY SD




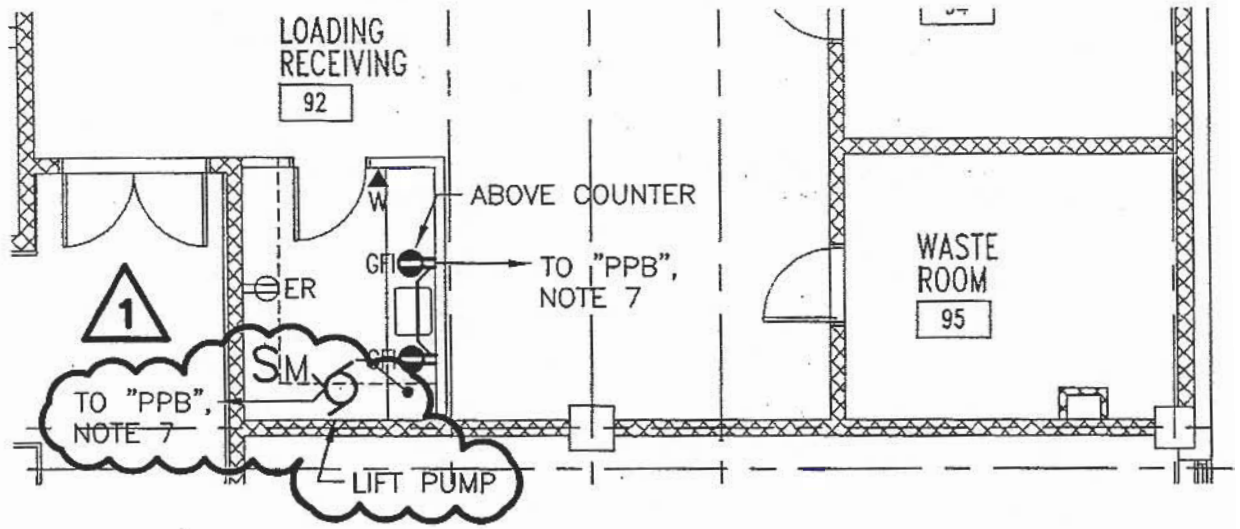
1 FIFTH FLOOR
SKE0.4 1/8" = 1'-0"



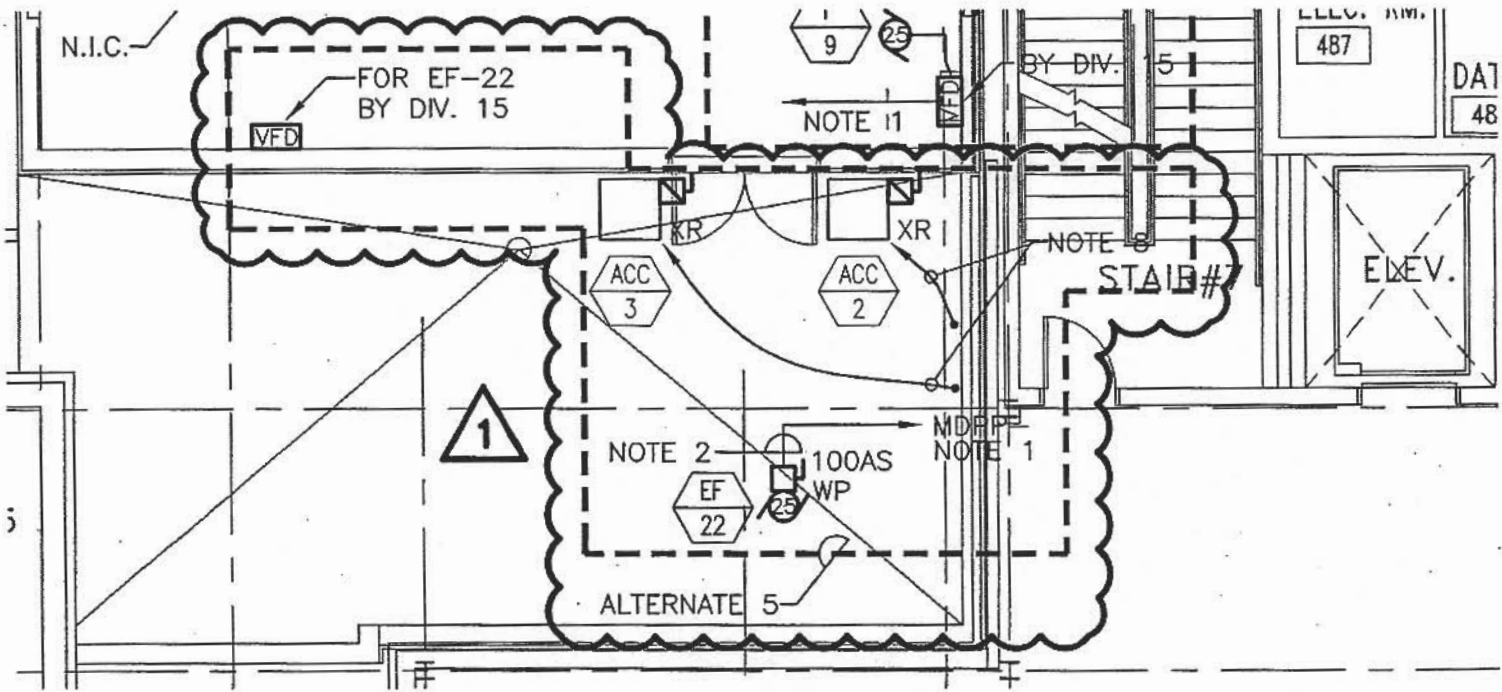
1 ROOF PLAN
SKE0.4 1/8" = 1'-0"

REFER TO DWG. E1.4

 Symmes, Maini & McKee Associates 1000 Massachusetts Avenue Cambridge, MA 02138	UNIVERSITY OF SOUTHERN MAINE PORTLAND, MAINE	DATE	04/28/04	SKE-04
		SCALE	1/8"=1'-0"	
FIFTH FLOOR AND ROOF PLAN POWER & LIGHTING REVISION		DR. BY	CK. BY	JOB NO.
		CDN	SD	03049.00




1 BASEMENT PARTIAL PLAN
SKE0.4 1/8" = 1'-0"

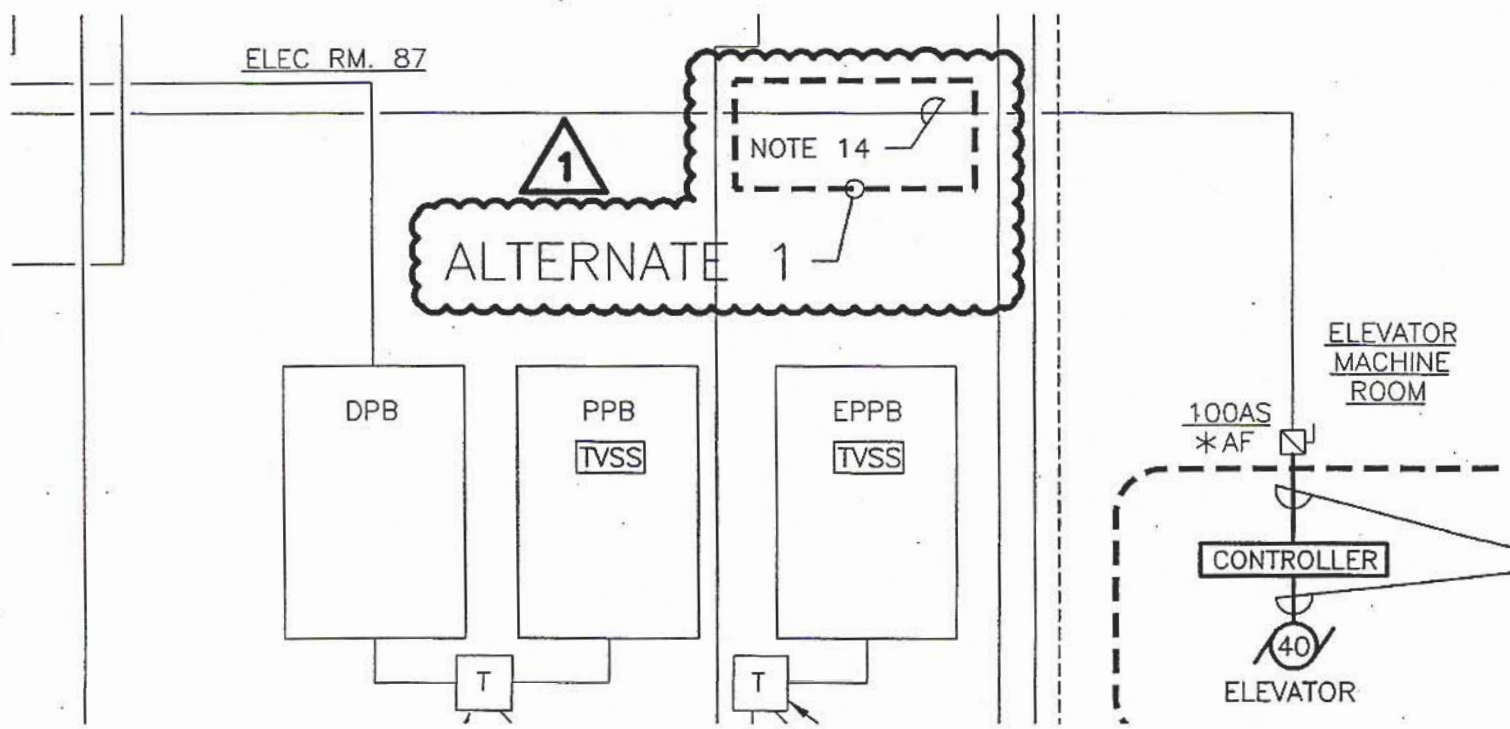
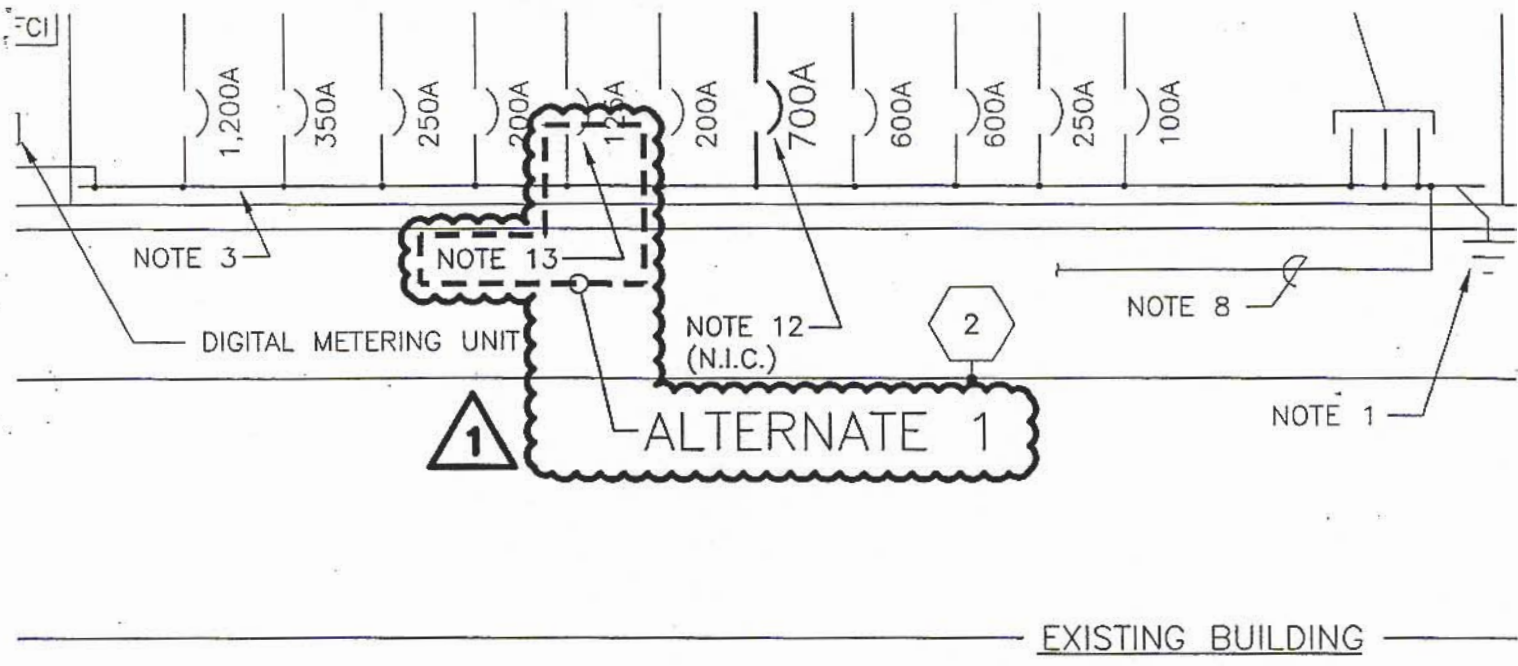


2 PENTHOUSE PLAN
SKE0.4 1/8" = 1'-0"

1 8. DUE TO UNITS' RELOCATION, E.C. SHALL DISCONNECT THESE UNITS, EXTEND POWER FEEDERS (PANEL "MPP") TO NEW LOCATION AND RE-CONNECT THEM BACK.


REFER TO DWG. E1.5

 SMMA Symmes, Maini & McKee Associates 1000 Massachusetts Avenue Cambridge, MA 02138	UNIVERSITY OF SOUTHERN MAINE PORTLAND, MAINE	DATE 04/28/04	SKE-05
		SCALE 1/8"=1'-0"	
PENTHOUSE PLAN & BASEMENT PARTIAL PLAN POWER REVISION		DR. BY CDN	CK. BY SD
		JOB NO. 03049.00	



- 13. EXISTING CIRCUIT BREAKER WITH SHUNT TRIP SHALL BE FIELD-RETROFITTED WITH AUXILIARY SWITCH CONTACTS, TYPE AS REQUIRED TO SWITCH POWER TO EMERGENCY BATTERY-POWERED LOWERING UNIT.
- 14. E.C. SHALL VERIFY IF ELEVATOR WIRING FROM MAIN SWITCHBOARD HAS BEEN PULLED WITHIN SCOPE OF PREVIOUS PHASES. IF NOT, IT SHALL BE CONSIDERED IN SCOPE OF THIS PROJECT: PROVIDE 3#4 & 1#6GND. IN EXISTING 1-1/4" CONDUIT.

REFER TO DWG. E4.1

 Symmes, Maini & McKee Associates 1000 Massachusetts Avenue Cambridge, MA 02138	UNIVERSITY OF SOUTHERN MAINE PORTLAND, MAINE	DATE	04/28/04	SKE-06
		SCALE	1/8"=1'-0"	
POWER ONE-LINE DIAGRAM PHASE 2 REVISION		DR. BY	CK. BY	JOB NO.
		CDN	SD	03049.00