

SOLICITATION INFORMATION

December 7, 2012

RFQ #7458345

**TITLE: HVAC RENOVATIONS POWERS BUILDING 4TH
FLOOR**

CLOSING DATE AND TIME: 12/14/12 AT 1:30PM

PRE-BID/ PROPOSAL CONFERENCE: YES DATE: 12/12/12 TIME: 11:00 AM

MANDATORY: YES

**LOCATION: DEPT OF ADMINISTRATION, POWERS BUILDING
 ONE CAPITOL HILL
 PROVIDENCE, RI
 MEET ON FIRST FLOOR AT CAPITOL POLICE DESK**

SURETY REQUIRED: YES

BOND REQUIRED: YES

PREVAILING WAGE INFORMATION: This third-party link www.wdol.gov/dba.aspx#0 is provided as a courtesy to potential vendors for guidance purposes only. The Division of Purchases is not responsible for the accuracy of the information contained on this website or any third-party website. Any and all vendors submitting proposals in response to this solicitation bear the sole responsibility and burden to submit proposals that are based on accurate information and are in compliance with law.

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FLOOR**

CLOSING DATE AND TIME: 12/14/12 AT 1:30PM

**VENDORS MUST REGISTER ON-LINE AT THE STATE PURCHASING WEBSITE AT
WWW.PURCHASING.RI.GOV TO BE ABLE TO DOWNLOAD A BIDDER CERTIFICATION
COVER FORM.**

**DAVID A. CADORET
BUYER**

THIS PAGE IS NOT A BIDDER CERTIFICATION FORM



STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Administration

DIVISION OF PURCHASES

Phone# 401-574-8127

FAX # 401-574-8387

BID SPECIFICATIONS-7458345

HVAC RENOVATIONS-POWERS BUILDING 4TH FLOOR

OPENS 12/14/12 1:30PM

Description:

The RI Department of Administration, Division of Facilities Management is seeking design- build bids to relocate / modify the HVAC system on the 4th floor of the RI Department of Administration's Powers Building in Providence, RI. There will be a Mandatory Pre-Bid Conference on Wednesday, December 12, 2012 at 11:00AM at:

THE DEPARTMENT OF ADMINISTRATION-POWERS BUILDING
ONE CAPITOL HILL
PROVIDENCE, RI
MEET ON FIRST FLOOR AT CAPITOL POLICE DESK

Bids are due on Friday, December 14, 2012 at 1:30PM at the RI Department of Administration Division of Purchases, 2nd Floor, 1 Capitol Hill Providence, RI.

The scope of work will include the addition of new VAV Terminal Boxes and the addition / modification of the existing ductwork and supply and return hot water lines in addition to balancing the system at the completion of the work to accommodate the new floor layout for the fourth floor offices in accordance with Northeast Collaborative Architects drawings and the HVAC Scope of Work dated November 26, 2012.



STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Administration

DIVISION OF PURCHASES

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BID SPECIFICATIONS-7458345

HVAC RENOVATIONS-POWERS BUILDING 4TH FLOOR

OPENS 12/14/12 1:30PM

HVAC Design – Build Scope of Work

November 26, 2012

DESCRIPTION: The Department of Administration Division of Facilities Management is in the process of renovating the Department of Administration's offices located on the 4th floor of the Powers Building in Providence, Rhode Island. The scope of this project includes the demolition of certain drywall partitions and the construction of new drywall partitions in this area. All of the current MEP (HVCA, Electrical, Telephone / Data, and Sprinkler) systems require modifications to meet the proposed layout for this area. The area of work will be broken down into two (2) phases; phase 1 work will occur immediately and phase 2 is anticipated to start directly after the phase 1 work is complete. The current occupant in the phase 2 area needs to be relocated in the building.

The building is fully occupied and the HVAC subcontractor will be allowed to work normal working hours with the exception of any activities that generate excessive noise and will interfere with the ongoing business of the building occupants. The HVAC subcontractor will be required to coordinate all of his work with the Division of Facilities Management's Project Manager and may have to work off hours to complete noise generating activities. The subcontractor shall include the cost of any required overtime or premium time in his bid. The owner will not reimburse the subcontractor for any overtime or premium time to complete the project.

SCOPE OF WORK: The work of this bid package shall include the following items:

- 1) This HVAC scope of work is for a design – build contract. The HVAC subcontractor will be responsible for all design work, engineering and calculations to deliver a fully functional HVAC system that provides the proper heating and cooling required for the occupants of the proposed space in accordance with all applicable laws, regulations, codes, and standards.
- 2) Installing all new VAV Terminal Boxes with reheat coil as shown on the contract drawings. The reheat coils shall be supplied with 110 volt electric fans with an on/off switch.
- 3) All thermostats / controllers and pneumatic tubing are the responsibility of this sub contractor. The subcontractor shall tie the new thermostats into the existing pneumatic lines where most practical.
- 4) Relocate any existing thermostats or controllers that interfere with the new construction.
- 5) Provide design drawings and calculations for approval by the State of Rhode Island Mechanical Inspector.
- 6) Furnish and install all new hard and flexible ductwork including new diffusers were required.
- 7) All new ductwork and piping shall be insulated in accordance with the current codes and regulations.
- 8) Remove and dispose of all abandon ductwork and cut off and cap as required.

BID SPECIFICATIONS-7458345
HVAC RENOVATIONS-POWERS BUILDING 4TH FLOOR
OPENS 12/14/12 1:30PM

- 9) The current HVAC system utilizes a return air plenum. The HVAC subcontractor shall install a return grille in each of the new offices and shall examine the remaining areas to ensure that the existing return grilles are adequate to meet the proper design.
- 10) The HVAC subcontractor shall take into consideration all heating and cooling loads when designing the system. The proposed office space will have two (2) copy machines; 1) Savin 8110 Copier, Serial No. L5670900079 208/240 volt, 13.5 Amp 2,800 watts. 2) Savin 9050 120 volt 12 amp copier.
- 11) The Savin 8110 Copier shall be located in the copier room directly to the north of door no. 118 and have its own exhaust fan either vented to the exterior of the building or into an existing bathroom exhaust line.
- 12) The HVAC subcontractor will be responsible to design the proper amount of air changes per hour to meet the current codes and standards. The HVAC subcontractor shall rebalance the HVAC system including any surrounding areas adjacent to the new construction. A balancing report from a certified balancing subcontractor will be required as part of this scope of work.
- 13) Provide any seismic bracing if required to meet the applicable codes.
- 14) This subcontractor will be responsible to furnish and install all fire safing and sealants where required by code for their work.
- 15) This subcontractor shall obtain and pay for all permits and fees required to perform their work.

DRAWINGS:

| <u>Dwg.</u> | <u>Description</u> | <u>Date</u> |
|-------------|--|-------------|
| D100 | 4 th Floor Demo Plan | 11/14/12 |
| A100 | 4 th Floor Plan | 11/14/12 |
| A101 | 4 th Floor Reflected Ceiling Plan | 11/14/12 |
| A102 | 4 th Floor Lighting Plan | 11/14/12 |
| A103 | 4 th Floor Power Plan | 11/14/12 |
| A104 | 4 th Floor HVAC Plan | 11/27/12 |
| A200 | Details | 09/19/12 |
| SKM-1 | First Floor HVAC Plan | 11/26/12 |

CONSTRUCTION METHODS:

General: The area of work presently has flexible office partitions and furniture in the area along with acoustical ceilings and carpeting. This contractor will be responsible for protecting all walls, ceilings, flooring, furniture, partitions and other items that are part of the permanent construction from dust, dirt and damage during your work. The contractor will leave the area of work clean of all construction dust, dirt and debris created by his operation. The base bid shall include all costs associated with the work and no overtime or premium time will be made to meet the schedule.

BID SPECIFICATIONS-7458345
HVAC RENOVATIONS-POWERS BUILDING 4TH FLOOR
OPENS 12/14/12 1:30PM

UNIT PRICES:

Unit Prices shall be used, where applicable, to make adjustments to the cost of the Work due to changes. All Unit Prices submitted shall be complete in-place prices (unless noted otherwise) and include all valves, hangers, fittings etc. in addition to all costs for overhead, profit, labor, materials, tools, equipment, insurance, taxes, and any other incidentals related to the completion of the Work, and shall remain firm for the period of the contract.

- | | |
|--|----------------|
| 1) Furnish & install new 10" x 10" duct with insulation | \$_____ / LF |
| 2) Furnish & install new 10" x 6" duct with insulation | \$_____ / LF |
| 3) Furnish & install a new VAV Terminal Box with Reheat Coil | \$_____ / Each |
| 4) Furnish & install a new thermostat tied into the pneumatic tubing | \$_____ / LF |
| 5) Furnish & install a new return air grille | \$_____ / Each |
| 6) Demo & Dispose existing duct up to 20" x 10" | \$_____ / LF |
| 7) Furnish & install new hot water supply lines with insulation | \$_____ / LF |
| 8) Furnish & install new hot water return lines with insulation | \$_____ / LF |
| 9) Pipe Fitter | \$_____ / HR |
| 10) Sheet Metal Worker | \$_____ / HR |
| 11) Insulator | \$_____ / HR |

ALTERNATE PRICES:

An Alternate Price shall include all costs associated with the changes, omissions, additions, or other adjustments to the Work of this Bid Package (Contract), which are described in the Alternate, or are reasonably inferable there from. Claims for extras resulting from changes caused by the acceptance or rejection of any Alternate will not be allowed. Alternate Prices shall also include all costs of overhead and profit, taxes, and insurances, associated with the work of the Alternate, whether additive or deductive.

The Drawings, Specifications and other Contract documents shall be considered appropriately modified by either the acceptance or rejection of the various Alternates. The Owner and the expressly reserve the right to accept or reject any, or all, Alternate Prices, and in any sequence prior to or after award. Acceptance or rejection of any Alternate does not relieve the Bidder of timely completion of the Work within the time periods indicated.

BID SPECIFICATIONS-7458345
HVAC RENOVATIONS-POWERS BUILDING 4TH FLOOR
OPENS 12/14/12 1:30PM

Alternate No. 1 – Install two (2) new VAV Terminal Boxes with reheat coil as shown on the mechanical sketch SKM-1 dated 11-26-12. The reheat coils shall be supplied with 110 volt electric fans with an on/off switch. Furnish and install the new thermostats / controllers and pneumatic tubing for these two (2) units. The subcontractor shall tie the new thermostats into the existing pneumatic lines where most practical. Repair one (1) broken Thermostat adjacent to room no. 5 shown on sketch SKM-1. Check out the thermostats and VAV units in room's no. 2 and 3, currently the HAVC system does not appear to be working in this area. Investigate the three (3) noisy diffusers along the east wall of the building and correct the problem. The HVAC subcontractor shall rebalance the HVAC system in the entire Taxation Department. A balancing report from a certified balancing subcontractor will be required as part of this scope of work. All other requirements identified in the Scope of Work above shall apply to this alternate.

Alternate No. 2 – Furnish the Seven (7) VAV Terminal Boxes with reheat coils (5 – 4th Floor and 2 – Taxation Department) as required for the project. The VAV Terminal Boxes shall be installed under the scope of work of the base bid.

BID:

This project is being bid on a Lump Sum basis for the proposed scope of work. The bidder shall break his bid down into the designated line items. The bid shall be broken into the two (2) phases of work. (See attached bid form). The State of Rhode is planning on conducting a scope review and anticipates awarding the contract on the bid due date. **Each Bidder must submit his Insurance Certificate with his bid.** Failure to submit the required Insurance Certificate with your bid may result in bid disqualification.

BASIS OF PAYMENT:

The basis of payment for this project will be on a percentage of work complete. The Sprinkler subcontractor shall submit an AIA G702 / G703 Requisition Form.

SCHEDULE:

Contract Award: 12/14/12

Commence Phase 1 Work: 12/17/12

Complete Phase 1 Work: 12/28/12

Commence Phase 2 Work: Estimated Start 01/02/13

Complete Phase 2 Work: Estimated Finish 01/31/13



STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
 Department of Administration
 DIVISION OF PURCHASES
 Phone# 401-574-8127
 FAX # 401-574-8387

BID SPECIFICATIONS-7458345
HVAC RENOVATIONS-POWERS BUILDING 4TH FLOOR
OPENS 12/14/12 1:30PM

HVAC Design / Build - Bid Form

November 26, 2012

BID:

This project is being bid on a Lump Sum basis for the proposed scope of work. The bidder shall break his bid down into the line items below. The bid shall be broken into the two (2) phases of work.

Phase 1

| Item # | Description | Estimate |
|--------|----------------------------|----------|
| 1 | Labor Piping | |
| 2 | Labor Ductwork & Diffusers | |
| 3 | Labor Install VAV Boxes | |
| 4 | Materials -Pipe | |
| 5 | Materials Ductwork | |
| 6 | Balancing | |
| | | |
| | | |

Total Lump Sum Price Phase 1 \$ _____

Phase 2

| Item # | Description | Estimate |
|--------|--------------------------------|----------|
| 1 | Labor Ductwork & Diffusers | |
| 2 | Materials Ductwork & Diffusers | |
| 3 | Balancing | |
| 4 | | |
| 5 | | |
| 6 | | |
| | | |
| | | |

Total Lump Sum Price Phase 2 \$ _____

Total Lump Sum Price Project (Phase 1 & 2) \$ _____

BID SPECIFICATIONS-7458345
HVAC RENOVATIONS-POWERS BUILDING 4TH FLOOR
OPENS 12/14/12 1:30PM

UNIT PRICES:

Unit Prices shall be used, where applicable, to make adjustments to the cost of the Work due to changes. All Unit Prices submitted shall be complete in-place prices (unless noted otherwise) and include all valves, hangers, fittings etc. in addition to all costs for overhead, profit, labor, materials, tools, equipment, insurance, taxes, and any other incidentals related to the completion of the Work, and shall remain firm for the period of the contract.

- | | |
|--|-----------------|
| 1) Furnish & install new 10" x 10" duct with insulation | \$ _____ / LF |
| 2) Furnish & install new 10" x 6" duct with insulation | \$ _____ / LF |
| 3) Furnish & install a new VAV Terminal Box with Reheat Coil | \$ _____ / Each |
| 4) Furnish & install a new thermostat tied into the pneumatic tubing | \$ _____ / LF |
| 5) Furnish & install a new return air grille | \$ _____ / Each |
| 6) Demo & Dispose existing duct up to 20" x 10" | \$ _____ / LF |
| 7) Furnish & install new hot water supply lines with insulation | \$ _____ / LF |
| 8) Furnish & install new hot water return lines with insulation | \$ _____ / LF |
| 9) Pipe Fitter | \$ _____ / HR |
| 10) Sheet Metal Worker | \$ _____ / HR |
| 11) Insulator | \$ _____ / HR |

**BID SPECIFICATIONS-7458345
HVAC RENOVATIONS-POWERS BUILDING 4TH FLOOR
OPENS 12/14/12 1:30PM**

ALTERNATE PRICES:

1) Alternate Price No. 1

| Item # | Description | Unit Price |
|--------|----------------------------|------------|
| 1 | Labor Piping | |
| 2 | Labor Ductwork & Diffusers | |
| 3 | Labor Install VAV Boxes | |
| 4 | Materials -Pipe | |
| 5 | Materials Ductwork | |
| 6 | Balancing | |
| | | |
| | | |

Total Alternate Price No. 1 \$ _____

2) Alternate Price No. 2 - Furnish the Seven (7) VAV Terminal Boxes with reheat coils (5 – 4th Floor and 2 – Taxation Department) as required for the project. The VAV Terminal Boxes shall be installed under the scope of work of the base bid.

Total Alternate Price No.2 \$ _____



NCA
 NORTHEAST
 COLLABORATIVE
 ARCHITECTS
 333 Westminster Street - 5th Floor
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 p 401.272.2144
 f 401.272.7622
 www.ncarchitects.com

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4TH FLOOR ADMINISTRATION
 PROVIDENCE, RI

REVISIONS:

**ISSUE FOR
 BIDDING**

**4TH FLOOR
 PLAN**

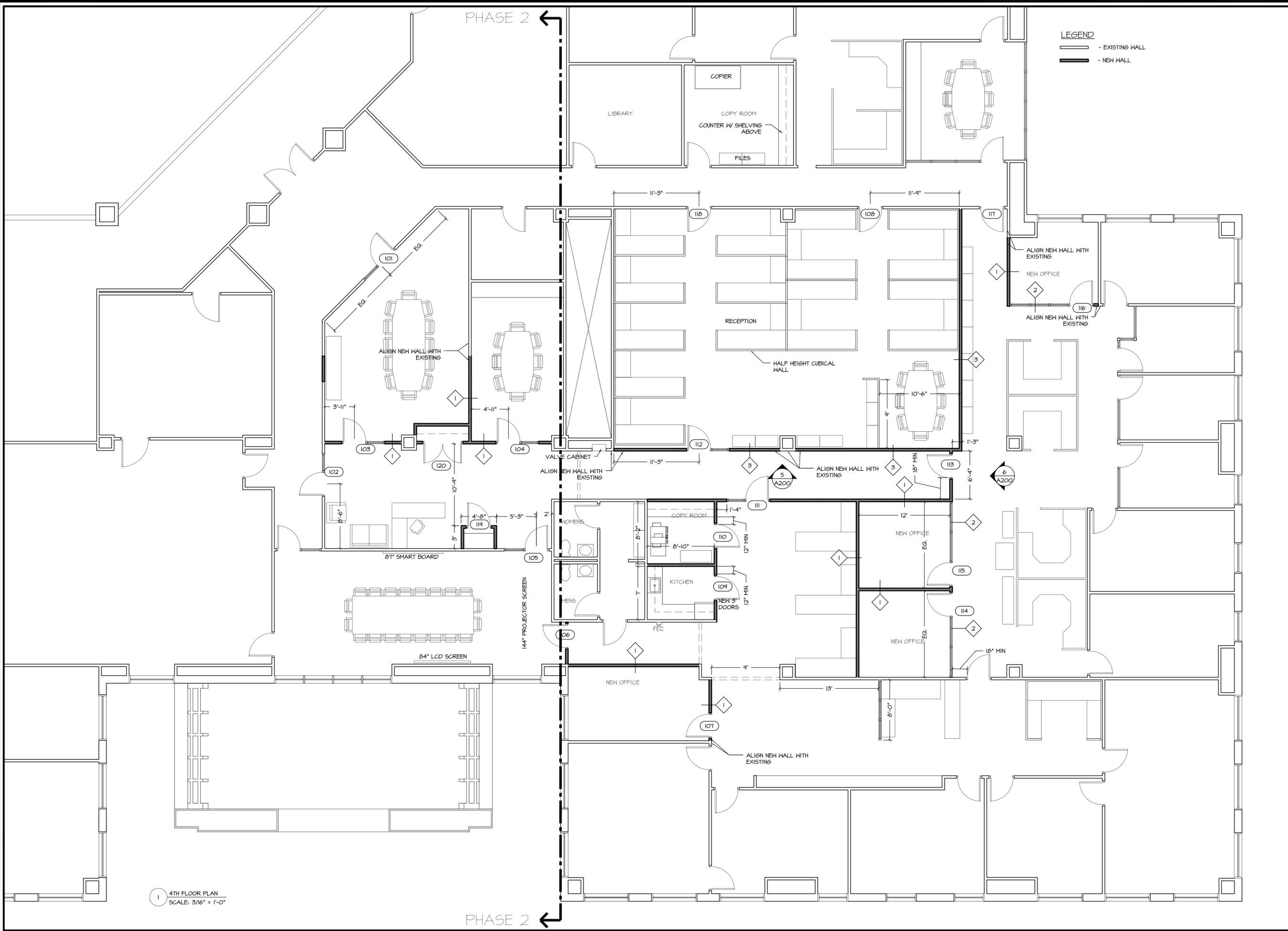
DATE: 11.27.2012

NCA JOB NO.: 12320

DRAWING NO.:

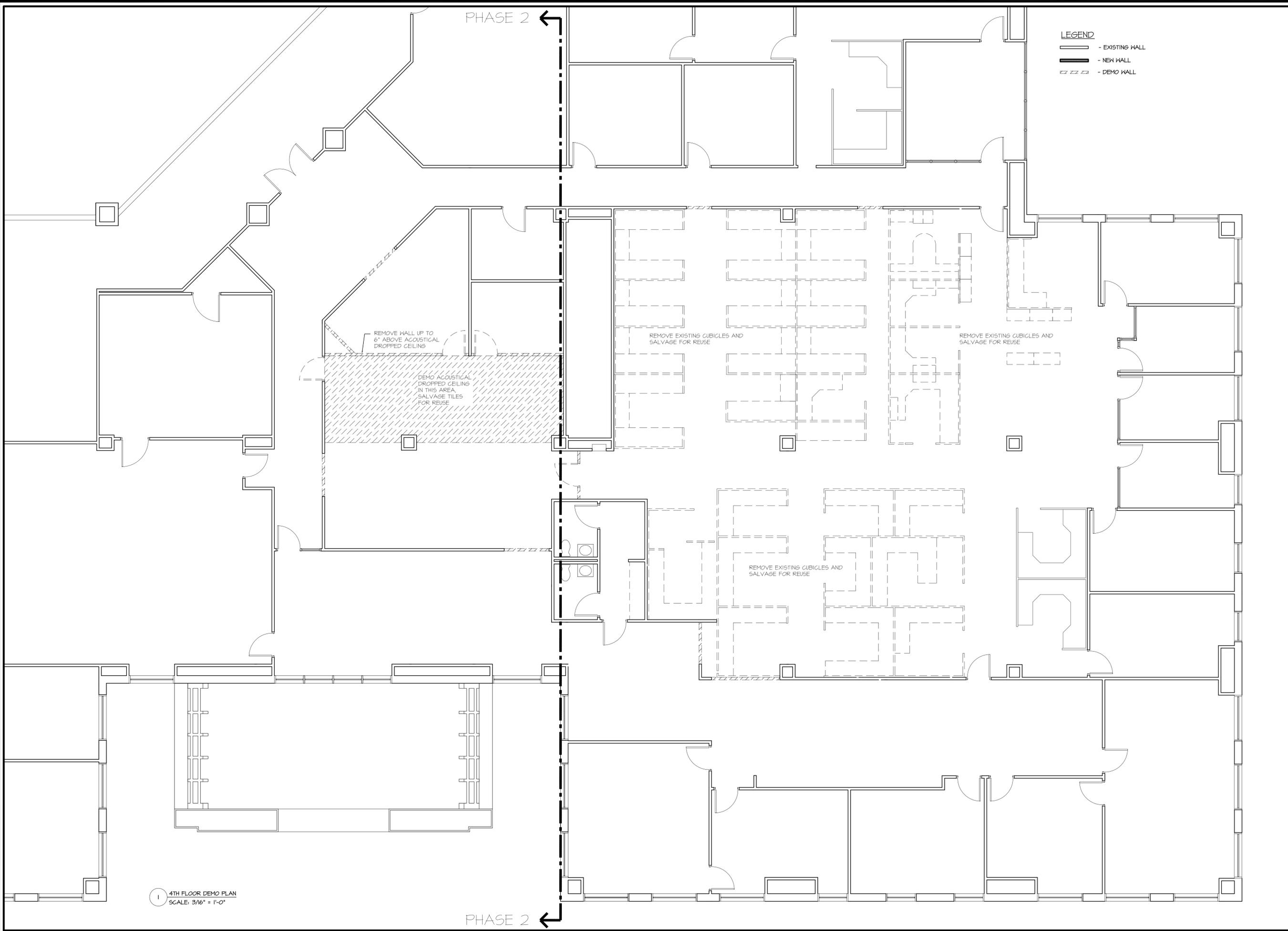
A100

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1 4TH FLOOR PLAN
 SCALE: 3/16" = 1'-0"

PHASE 2



LEGEND
 - EXISTING WALL
 - NEW WALL
 - DEMO WALL

1 4TH FLOOR DEMO PLAN
 SCALE: 3/16" = 1'-0"

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 ARCHITECTS
 333 Westminster Street - 5th Floor
 Providence, RI 02903
 p 401.272.2144
 f 401.272.7622
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 PROVIDENCE, RI

REVISIONS:

**ISSUE FOR
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4TH FLOOR
 DEMO PLAN

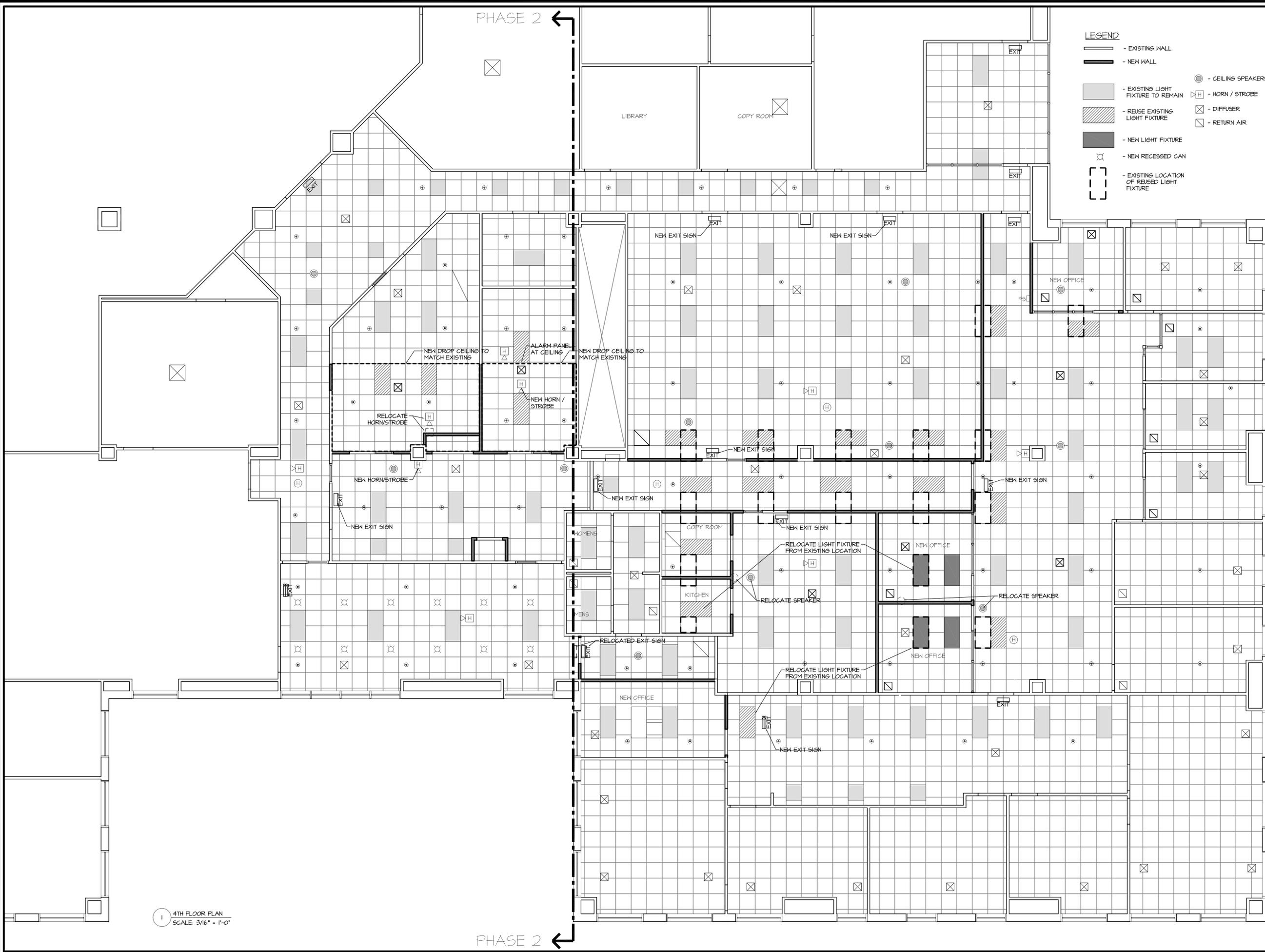
DATE: 11.27.2012

NCA JOB NO.: 12320

DRAWING NO.:

D100

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- LEGEND**
- EXISTING WALL
 - NEW WALL
 - EXISTING LIGHT FIXTURE TO REMAIN
 - REUSE EXISTING LIGHT FIXTURE
 - NEW LIGHT FIXTURE
 - NEW RECESSED CAN
 - EXISTING LOCATION OF REUSED LIGHT FIXTURE
 - - CEILING SPEAKERS
 - ⊠ - HORN / STROBE
 - ⊠ - DIFFUSER
 - ⊠ - RETURN AIR

1 4TH FLOOR PLAN
SCALE: 3/16" = 1'-0"

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Providence, RI 02903
p 401.272.2144
f 401.272.7622
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**DOA POWERS BUILDING
4TH FLOOR ADMINISTRATION**
PROVIDENCE, RI

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4TH FLOOR RCP

DATE: 11.27.2012

NCA JOB NO.: 12320

DRAWING NO.:

A101

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 4TH FLOOR ADMINISTRATION**
 PROVIDENCE, RI

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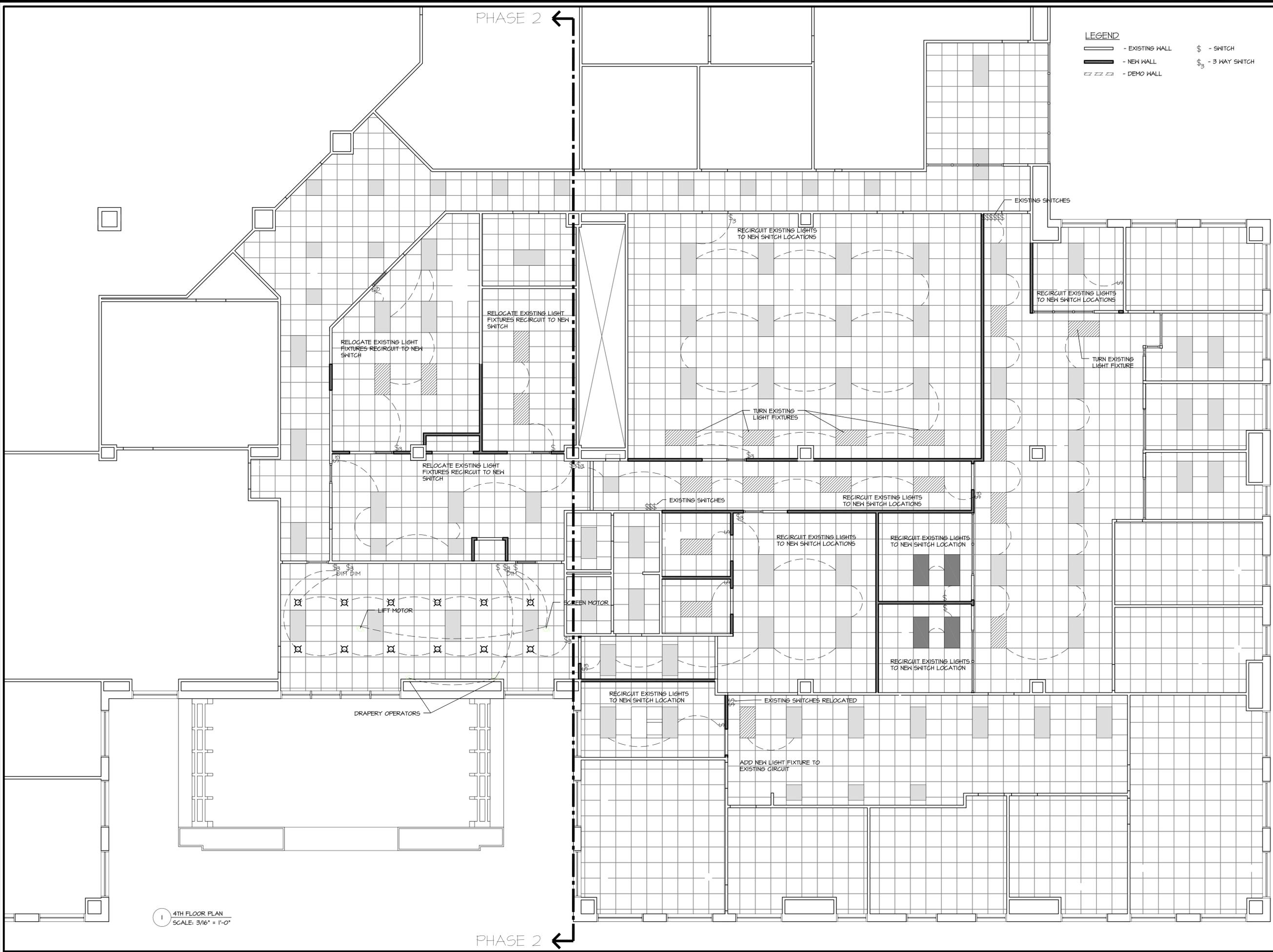
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**4TH FLOOR
 LIGHTING PLAN**

DATE: 11.27.2012

NCA JOB NO.: 12320

DRAWING NO.: **A102**



LEGEND
 — - EXISTING WALL \$ - SWITCH
 — - NEW WALL \$ - 3 WAY SWITCH
 - - - - DEMO WALL

1 4TH FLOOR PLAN
 SCALE: 3/16" = 1'-0"

PHASE 2 ←

PHASE 2 ←

**DOA POWERS BUILDING
 4TH FLOOR ADMINISTRATION**
 PROVIDENCE, RI

REVISIONS:

**ISSUE FOR
 BIDDING**

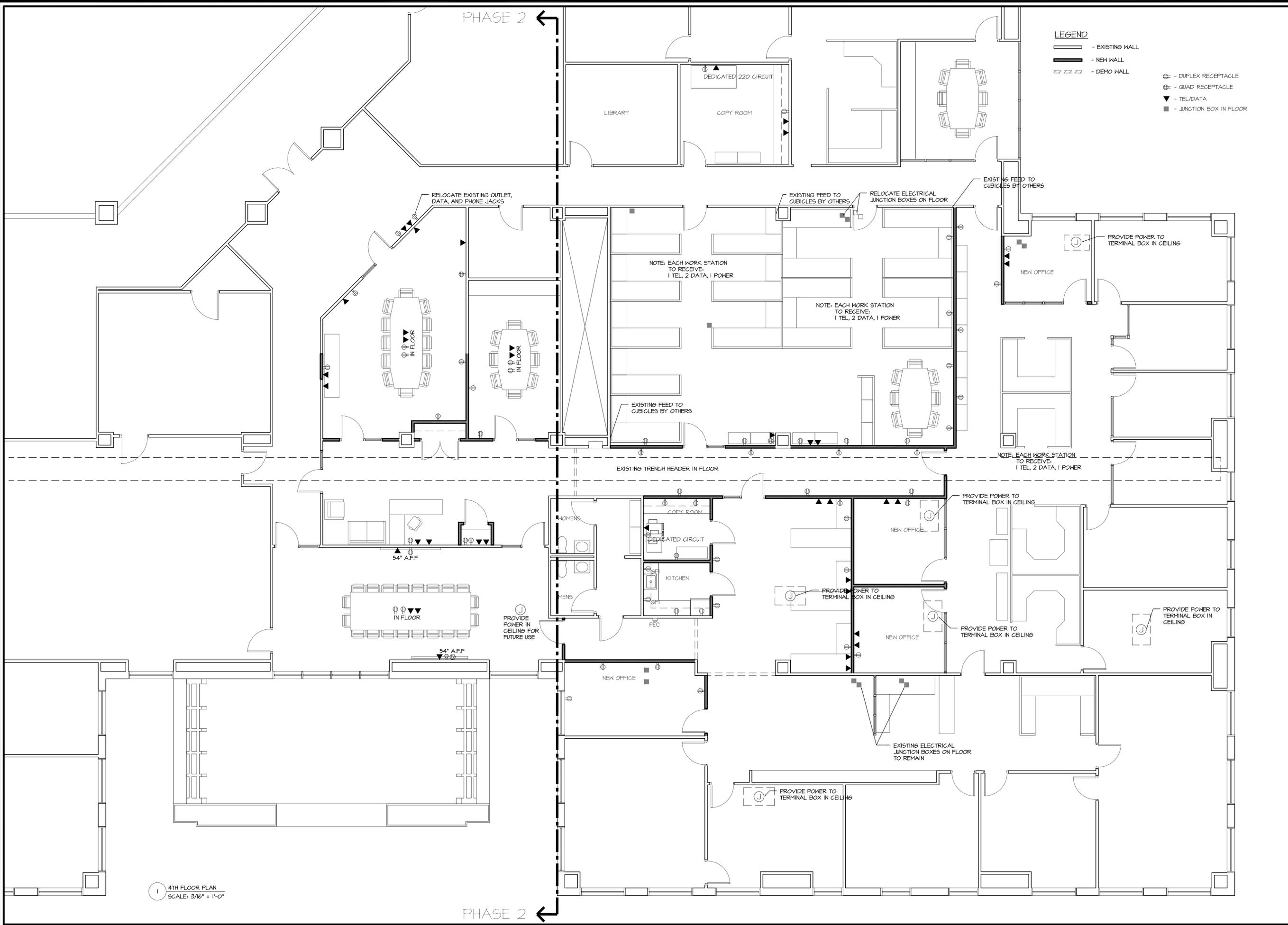
**4TH FLOOR
 POWER PLAN**

DATE: 11.27.2012

NCA JOB NO.: 12320

DRAWING NO.:

A103



1 4TH FLOOR PLAN
 SCALE: 3/16" = 1'-0"



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 ARCHITECTS
 333 Westminster Street - 5th Floor
 Providence, RI 02903
 p 401.272.2144
 f 401.272.7622
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4TH FLOOR HVAC

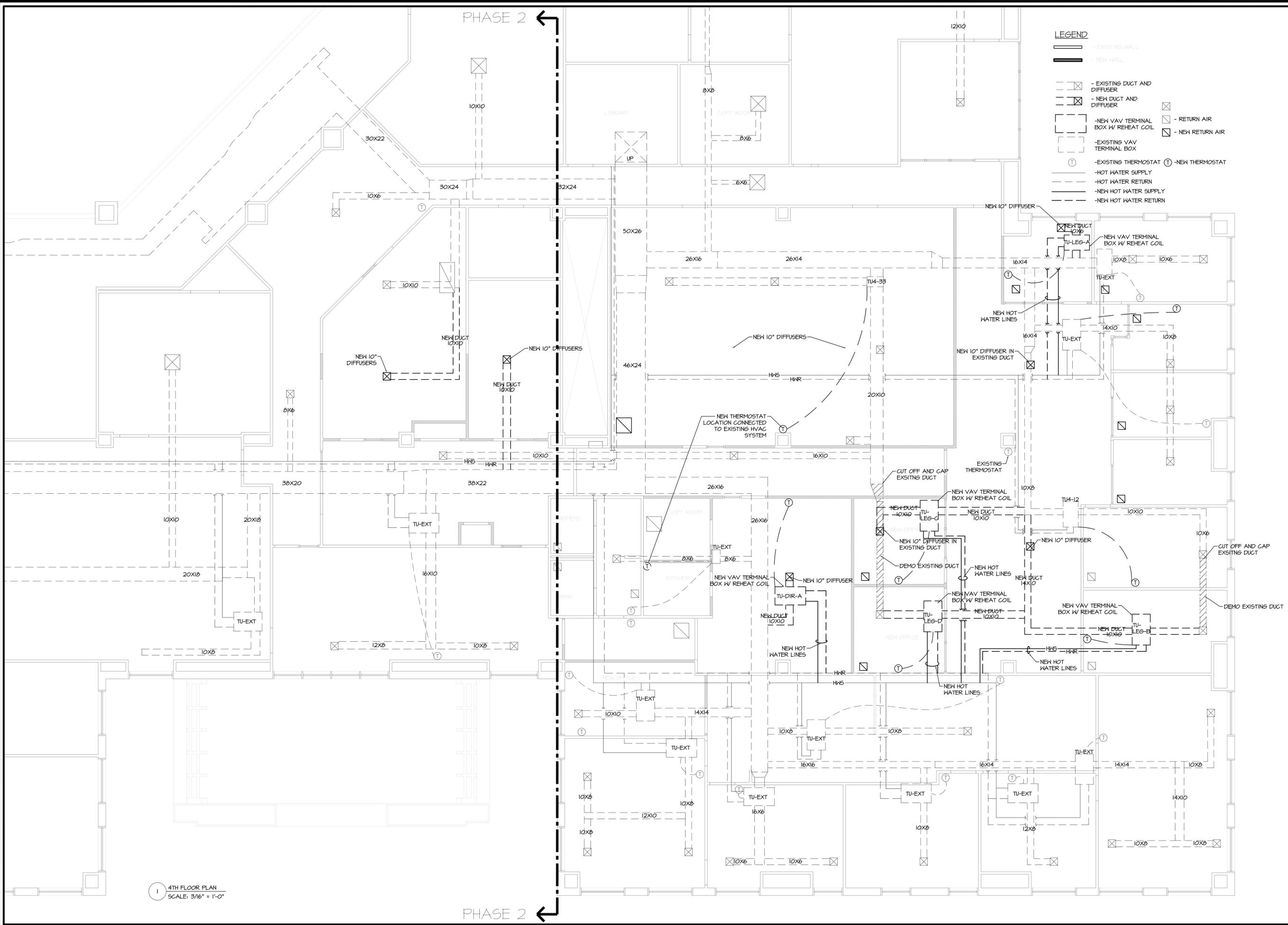
DATE: 11.27.2012

NCA JOB NO.: 12320

DRAWING NO.:

A104

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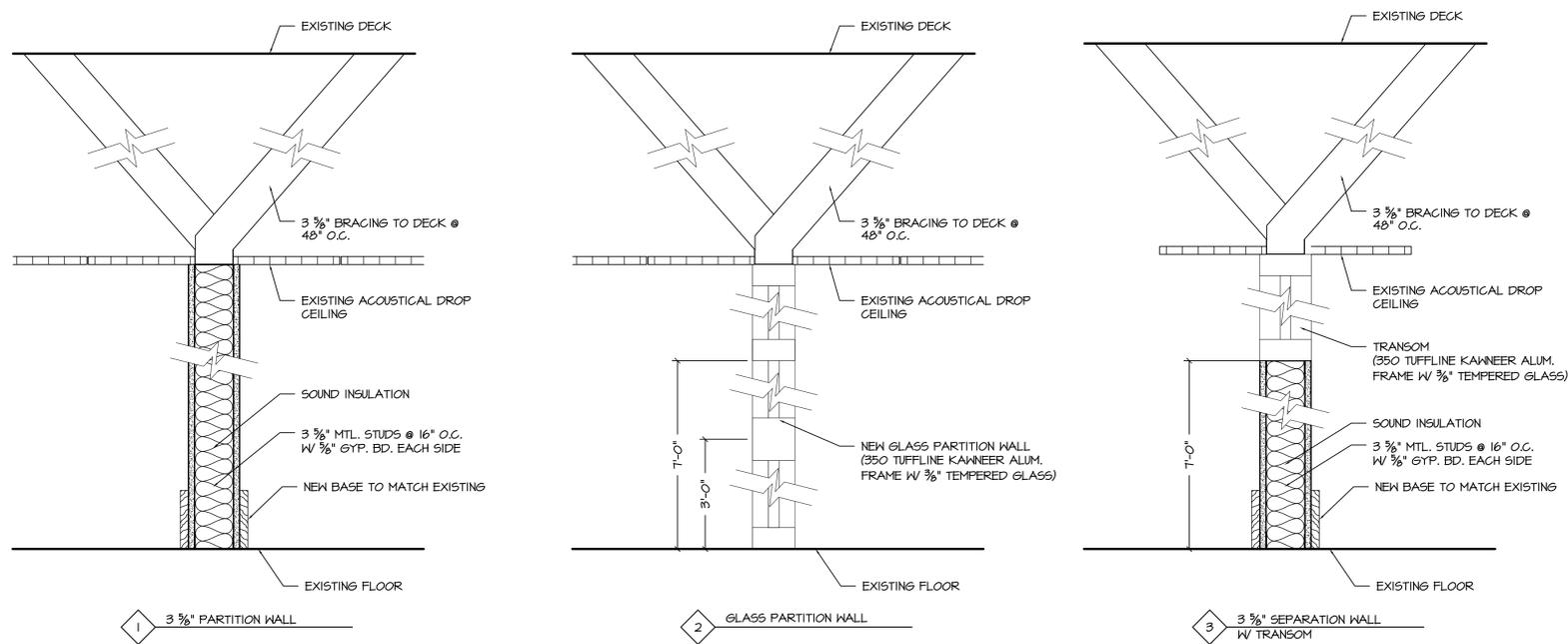
- LEGEND**
- EXISTING WALL
 - NEW WALL
 - EXISTING DUCT AND DIFFUSER
 - NEW DUCT AND DIFFUSER
 - NEW VAV TERMINAL BOX W/ REHEAT COIL
 - EXISTING VAV TERMINAL BOX
 - EXISTING THERMOSTAT
 - HOT WATER SUPPLY
 - HOT WATER RETURN
 - NEW HOT WATER SUPPLY
 - NEW HOT WATER RETURN
 - RETURN AIR
 - NEW RETURN AIR
 - NEW THERMOSTAT

1 4TH FLOOR PLAN
 SCALE: 3/16" = 1'-0"

PHASE 2 ←

← PHASE 2

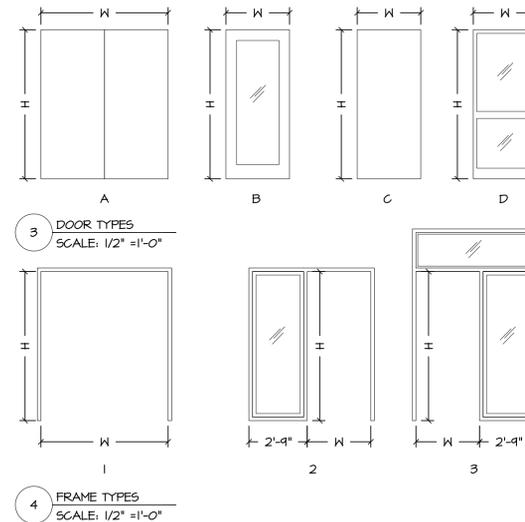
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 4TH FLOOR ADMINISTRATION**
 PROVIDENCE, RI



1 WALL TYPES
 SCALE: 1/2" = 1'-0"

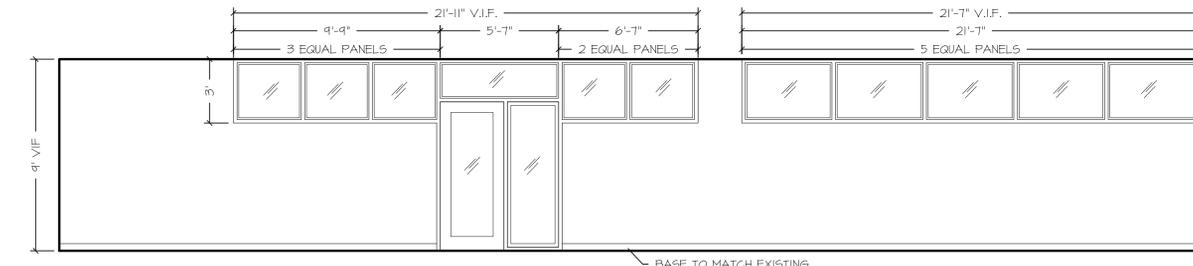
| DOOR SCHEDULE | | | | | | | | | | | | | | | | |
|---------------|--------------------------|-----------|-------------------|-------|------------|---------------|-------------|------------|------------|------------|------------|----------------|--------------|-----|--------|--------------------------------------|
| DOOR # | DESCRIPTION | DOOR TYPE | DOOR OPENING SIZE | | THICK-NESS | DOOR MATERIAL | DOOR FINISH | FRAME | | | | | | HDW | RATING | REMARKS |
| | | | W | H | | | | FRAME TYPE | FRAME JAMB | FRAME HEAD | FRAME SILL | FRAME MATERIAL | FRAME FINISH | | | |
| 101 | SINGLE DOOR W/ SIDELIGHT | B | 3'-0" | 7'-0" | 1 3/4" | WD/GLASS | STAIN | 2 | | | | | MTL | PTD | | |
| 102 | SINGLE DOOR W/ SIDELIGHT | B | 3'-0" | 7'-0" | 1 3/4" | WD/GLASS | STAIN | 2 | | | | | MTL | PTD | | |
| 103 | SINGLE DOOR W/ SIDELIGHT | B | 3'-0" | 7'-0" | 1 3/4" | WD/GLASS | STAIN | 2 | | | | | MTL | PTD | | |
| 104 | SINGLE DOOR W/ SIDELIGHT | B | 3'-0" | 7'-0" | 1 3/4" | WD/GLASS | STAIN | 2 | | | | | MTL | PTD | | |
| 105 | SINGLE DOOR W/ SIDELIGHT | B | 3'-0" | 7'-0" | 1 3/4" | WD/GLASS | STAIN | 2 | | | | | MTL | PTD | | |
| 106 | SINGLE DOOR | C | 3'-0" | 7'-0" | 1 3/4" | WD | STAIN | 1 | | | | | MTL | PTD | | RELOCATED EXISTING DOOR AND FRAME |
| 107 | SINGLE DOOR | C | 3'-0" | 7'-0" | 1 3/4" | WD | STAIN | 1 | | | | | MTL | PTD | | RELOCATED EXISTING DOOR AND FRAME |
| 108 | SINGLE DOOR | B | 3'-0" | 7'-0" | 1 3/4" | WD | STAIN | 1 | | | | | MTL | PTD | | |
| 109 | SINGLE DOOR | C | 3'-0" | 7'-0" | 1 3/4" | WD | STAIN | 1 | | | | | MTL | PTD | | RELOCATED EXISTING DOOR AND FRAME |
| 110 | SINGLE DOOR | C | 3'-0" | 7'-0" | 1 3/4" | WD | STAIN | 1 | | | | | MTL | PTD | | RELOCATED EXISTING DOOR AND FRAME |
| 111 | SINGLE DOOR W/ SIDELIGHT | B | 3'-0" | 7'-0" | 1 3/4" | WD/GLASS | STAIN | 2 | | | | | MTL | PTD | | |
| 112 | SINGLE DOOR W/ SIDELIGHT | B | 3'-0" | 7'-0" | 1 3/4" | WD/GLASS | STAIN | 3 | | | | | MTL | PTD | | |
| 113 | SINGLE DOOR | B | 3'-0" | 7'-0" | 1 3/4" | WD | STAIN | 1 | | | | | MTL | PTD | | |
| 114 | SINGLE DOOR | D | 3'-0" | 7'-0" | 1 3/4" | MTL/GLASS | PTD | 1 | | | | | MTL | PTD | | |
| 115 | SINGLE DOOR | D | 3'-0" | 7'-0" | 1 3/4" | MTL/GLASS | PTD | 1 | | | | | MTL | PTD | | |
| 116 | SINGLE DOOR | D | 3'-0" | 7'-0" | 1 3/4" | MTL/GLASS | PTD | 1 | | | | | MTL | PTD | | |
| 117 | EXISTING DOOR | EXISTING | | | | | | EXISTING | | | | | MTL | PTD | | ADD SHIPE CARD LOCK TO EXISTING DOOR |
| 118 | SINGLE DOOR | B | 3'-0" | 7'-0" | 1 3/4" | WD | STAIN | 1 | | | | | MTL | PTD | | |
| 119 | SINGLE DOOR | C | 3'-0" | 7'-0" | 1 3/4" | WD | STAIN | 1 | | | | | | | | |
| 120 | DOUBLE DOOR | A | 5'-0" | 7'-0" | 1 3/4" | WD | STAIN | 1 | | | | | | | | |

2 DOOR SCHEDULE
 SCALE:

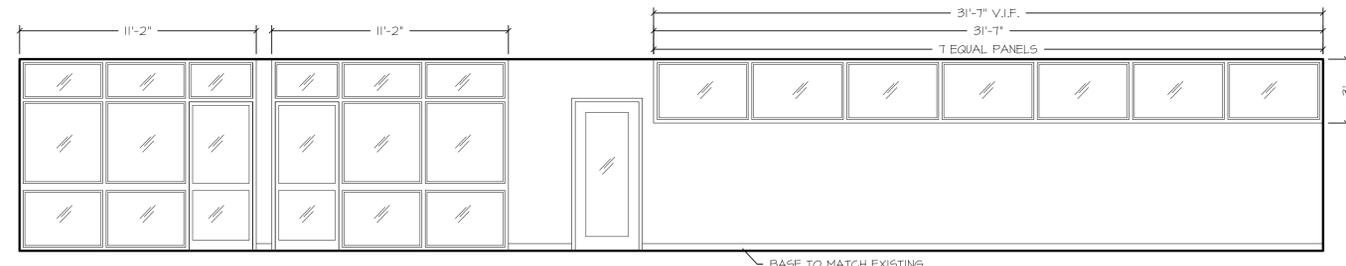


3 DOOR TYPES
 SCALE: 1/2" = 1'-0"

4 FRAME TYPES
 SCALE: 1/2" = 1'-0"



5 INTERIOR ELEVATION
 SCALE: 1/4" = 1'-0"



6 INTERIOR ELEVATION
 SCALE: 1/4" = 1'-0"

REVISIONS:

ISSUE FOR BIDDING

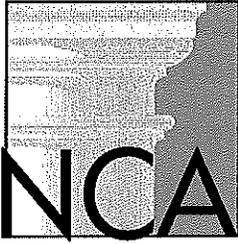
DETAILS

DATE: 11.27.2012

NCA JOB NO.:

DRAWING NO.:

A200



**NORTHEAST
COLLABORATIVE
ARCHITECTS**

333 Westminster Street
Moulton Hall, 4th Floor
Providence, RI 02903
www.ncarchitects.com
tel: 401.272.2144
fax: 401.272.7622

**Powers Building
Department of Administration
Fourth Floor renovations**

Mechanical Requirements-Air Terminal Units

| Unit Number | Cooling CFM | | Heating Fan CFM | Static Pressure |
|-------------|-------------|------|-----------------|-----------------|
| | Max. | Min. | | |
| Leg-A | 310 | 105 | 230 | 0.44 |
| Leg-B | 260 | 105 | 150 | 0.34 |
| Leg-C | 160 | 80 | 150 | 0.24 |
| Leg-D | 160 | 80 | 150 | 0.24 |
| Dir-A | 200 | 100 | 150 | 0.28 |

Note: All fan motors 1/10 HP