

# CHAMPAIGN COUNTY BOARD FACILITIES COMMITTEE

County of Champaign, Urbana, Illinois Tuesday, November 3, 2015 6:30 pm

Lyle Shields Meeting Room Brookens Administrative Center 1776 E. Washington St., Urbana

### **Committee Members:**

Gary Maxwell - Chair Giraldo Rosales – Vice-Chair Jack Anderson Josh Hartke James Quisenberry Jon Rector Rachel Schwartz

### **AGENDA**

- Call to Order
- II. Roll Call
- III. Approval of Agenda/Addenda
- IV. Approval of Minutes September 1, 2015

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- V. Public Participation
- VI. Communications
- VII. Illinois Green Business Association Brookens Administrative Center Certificate Presentation by Cassie Carroll, Executive Director
- VIII. Champaign County Facility Condition Assessment Project Presentation by Bailey Edward Architecture
- IX. Facilities Director's Report
  - A. Update on Courthouse Window Replacement Project
  - B. Update on Precast Concrete Panel Repair Project
  - C. Update on CCNH Dryer Lint Project
  - D. Update on Department of Justice ADA Compliance Issues
- X. Chair's Report
  - A. Future Meeting Tuesday, December 1, 2015 at 6:30 pm
- XI. Designation of Items to be Placed on the Consent Agenda
- XII. Adjournment

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# Champaign County Board Facilities Committee County of Champaign, Urbana, Illinois

7 MINUTES – SUBJECT TO REVIEW AND APPROVAL

8 DATE: Tuesday, September 1, 2015

9 TIME: 6:30 p.m.

PLACE: Lyle Shields Meeting Room

**Brookens Administrative Center** 

1776 E. Washington, Urbana, IL 61802

**Committee Members** 

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Present	Absent	
Gary Maxwell (Chair)		
Giraldo Rosales (Vice Chair)		
Jack Anderson		
Josh Hartke		
Jeff Kibler		
James Quisenberry		
Rachel Schwartz		

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County Staff: Dana Brenner (Facilities Director); Deb Busey (County Administrator); Linda Lane

(Administrative Assistant)

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**Others Present:** Chris Alix (Board Member)

21 **MINUTES** 

I. Call to Order

Committee Chair Maxwell called the meeting to order at 6:30 p.m.

II. Roll Call

A verbal roll call was taken and a quorum was declared present.

III. Approval of Agenda

**MOTION** by Mr. Rosales to approve the agenda; seconded by Mr. Kibler. Upon vote, the **MOTION CARRIED unanimously.** 

IV. Approval of Minutes- August 4, 2015

**MOTION** by Mr. Hartke to approve the minutes of the August 4, 2015 meeting; seconded by Mr. Quisenberry. Upon vote, the **MOTION CARRIED unanimously.** 

V. Public Participation

None

VI. Communications

None

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### VII. Approval of the Army Corp of Engineering Lease

Mr. Maxwell noted that this item has been pulled from the agenda several times in the past. He said that Mr. Brenner assures him that this lease is in good shape and can be recommended to the Full County Board for approval. **MOTION** by Mr. Hartke to approve the lease; seconded by Mr. Kibler. Upon vote, the **MOTION CARRIED unanimously.** 

### VIII. Approval of the Urbana Park District Lease Amendment

Mr. Maxwell said that the Urbana Park District would like to lease some storage space, previously occupied by the State's Attorney's office, beginning September 1, 2015. Mr. Brenner stated that on June 1, 2016 this will be rolled into the regular lease. **MOTION** by Mr. Hartke to approve the lease amendment; seconded by Mr. Rosales. Upon vote, the **MOTION CARRIED unanimously.** 

### IX. Facilities Director's Report

- A. Update on Courthouse Window Replacement Project
  - Mr. Brenner handed out an updated schedule. He said it needed to be adjusted due to two separate delays. He said the jury assembly room will be done next week, which is the only time available to do those windows since there will be no juries scheduled. He reported the project is going well and expects to finish the second week of October, with 47 of the 127 windows now complete.
- B. Update on Facility Condition Assessment, Documentation, and Capital Planning Study
  Mr. Brenner stated they have been busy going through the buildings with the consultants. He
  reported that per Ms. Busey's request, they proposed a change in schedule to Bailey Edward that
  they deliver a draft to us in October instead of November. Mr. Brenner said they also asked that
  they present to the Facilities Committee and Board in November instead of December, since the
  budget will be approved in November. He said that Bailey Edward has agreed.
- C. Update on CCNH Dryer Venting Project
  - Mr. Brenner briefly explained the dryer vent issue. He said GHR did a study recently and came up with a way to exhaust the dryers in another location. He said the estimated price for that project is \$220,000. Mr. Brenner said the Nursing Home gave permission to get a proposal from GHR to do the specifications and bid documents. He said GHR has delivered that proposal and it will go the Nursing Home Board of Directors for approval on September 14, 2015.
- D. Update on the Satellite Jail, Highway, and JDC Joint/Crack Repair Project
  Mr. Brenner said they had a kick-off meeting with Otto Baum, ERA, and the three building supervisors today. He said work will begin tomorrow and last about 60 days, starting with the Satellite. He reminded all that the Satellite would have the joints replaced, cracks repaired, and panels sealed; JDC will have the joints replaced; and Highway will have the joints replaced and cracks repaired. He said that the panel joints will need to be done again in 8-10 years as normal maintenance.

Mr. Brenner mentioned that the Illinois Green Business Association has been on their list for some time. He said they attempted to get it completed in May, but had to cancel. He said they have a meeting scheduled for next week and we will be giving them four pieces of information. Mr. Brenner said once that is complete they should receive their certification.

### X. Other Business

A. Approval of Closed Session Minutes – June 2, 2015

**MOTION** by Mr. Hartke to approve June 2, 2015 minutes; seconded by Mr. Kibler. Upon vote, the **MOTION CARRIED** with Mr. Anderson abstaining.

83	XI.	Ch	air's Report
82			Mr. Maxwell stated that there were no closed session minutes to review.
81		В.	Semi-Annual Review of Closed Session Minutes

### XI. Chair's Report

- A. Future Meeting Tuesday, October 6, 2015 at 6:30 p.m.
- B. Tour of the Juvenile Detention Center, 400 S Art Bartell, Urbana at 5:15 pm prior to the October 6 Facilities Committee Meeting. Meet in the JDC parking lot at 5:15.

## XII. Designation of Items to be Placed on the Consent Agenda

Mr. Maxwell stated that items VII and VIII are to be placed on the consent agenda.

### XIII. Adjournment

There being no further business, Mr. Maxwell adjourned the meeting at 6:48 p.m.

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<sup>\*\*</sup>Please note the minutes reflect the order of the agenda and may not necessarily reflect the order of business conducted at the meeting.

Engineers and Associates, Inc.

Mechanical & Electrical Consulting Engineers 1615 South Neil Street
Champaign, Illinois 61820
Tel: (217) 356-0536 Fax: (217) 356-1092



Sheet Title

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# ARCHI TECTURE

FLOOR PLANS SECTIONS AND ELEVATIONS

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SHEETS

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NDEX

COVER SHEET

SCHEDULES AND NOTES

PARTIAL FIRST FLOOR PLAN - DEMOLITION - FIRE PROTECTION

PARTIAL FIRST FLOOR PLAN - NEW WORK - FIRE PROTECTION PARTIAL BASEMENT PLAN - DEMOLITION - PLUMBING DFP-1

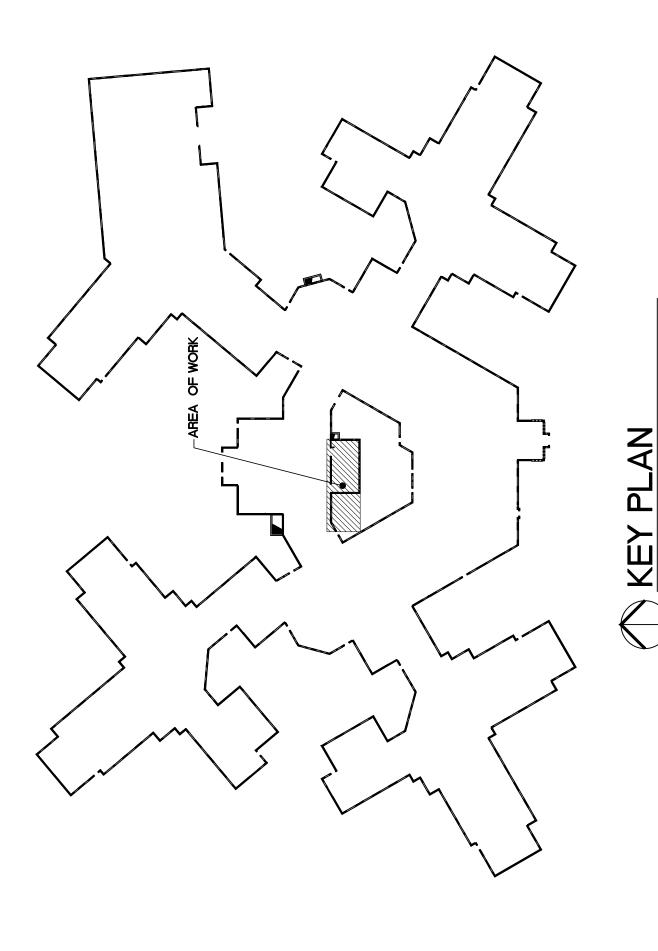
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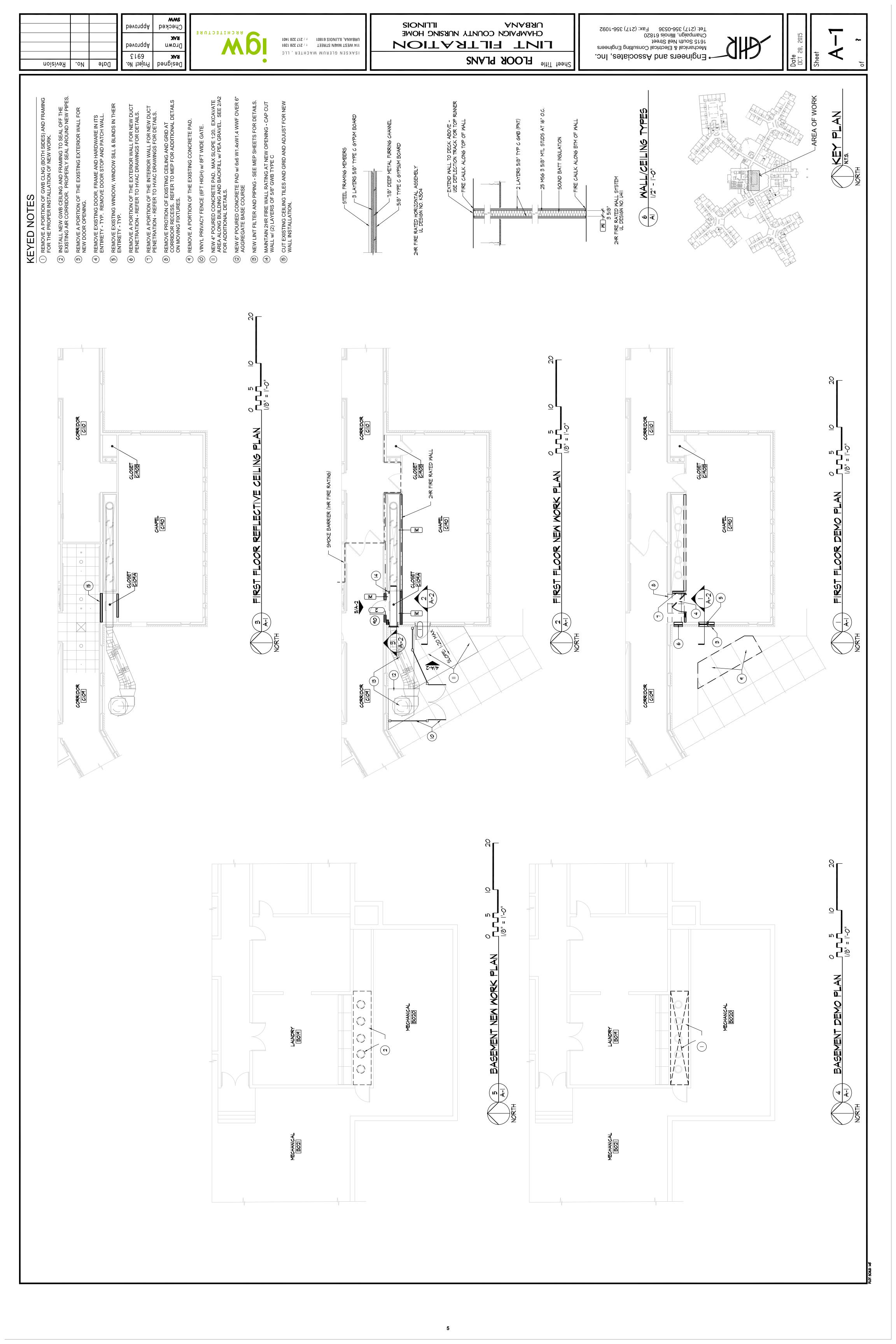
PARTIAL BASEMENT PLAN - NEW WORK - PLUMBING
PARTIAL FIRST FLOOR PLAN - NEW WORK - PLUMBING
PLUMBING DETAILS
PARTIAL FLOOR PLANS - NEW WORK - HVAC
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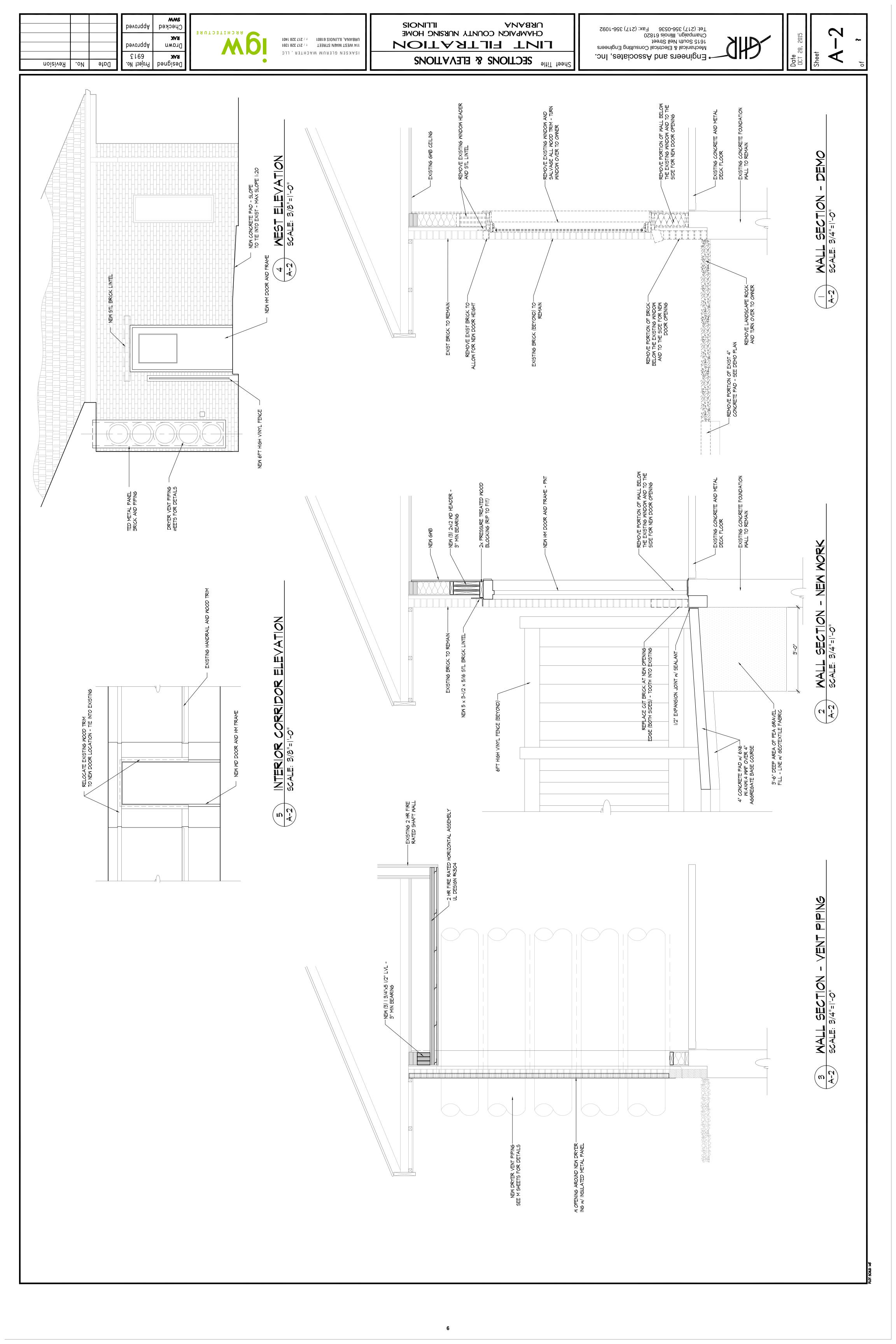
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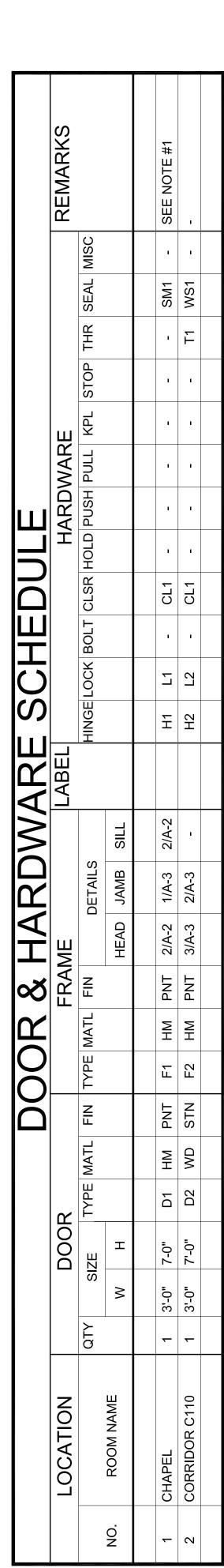
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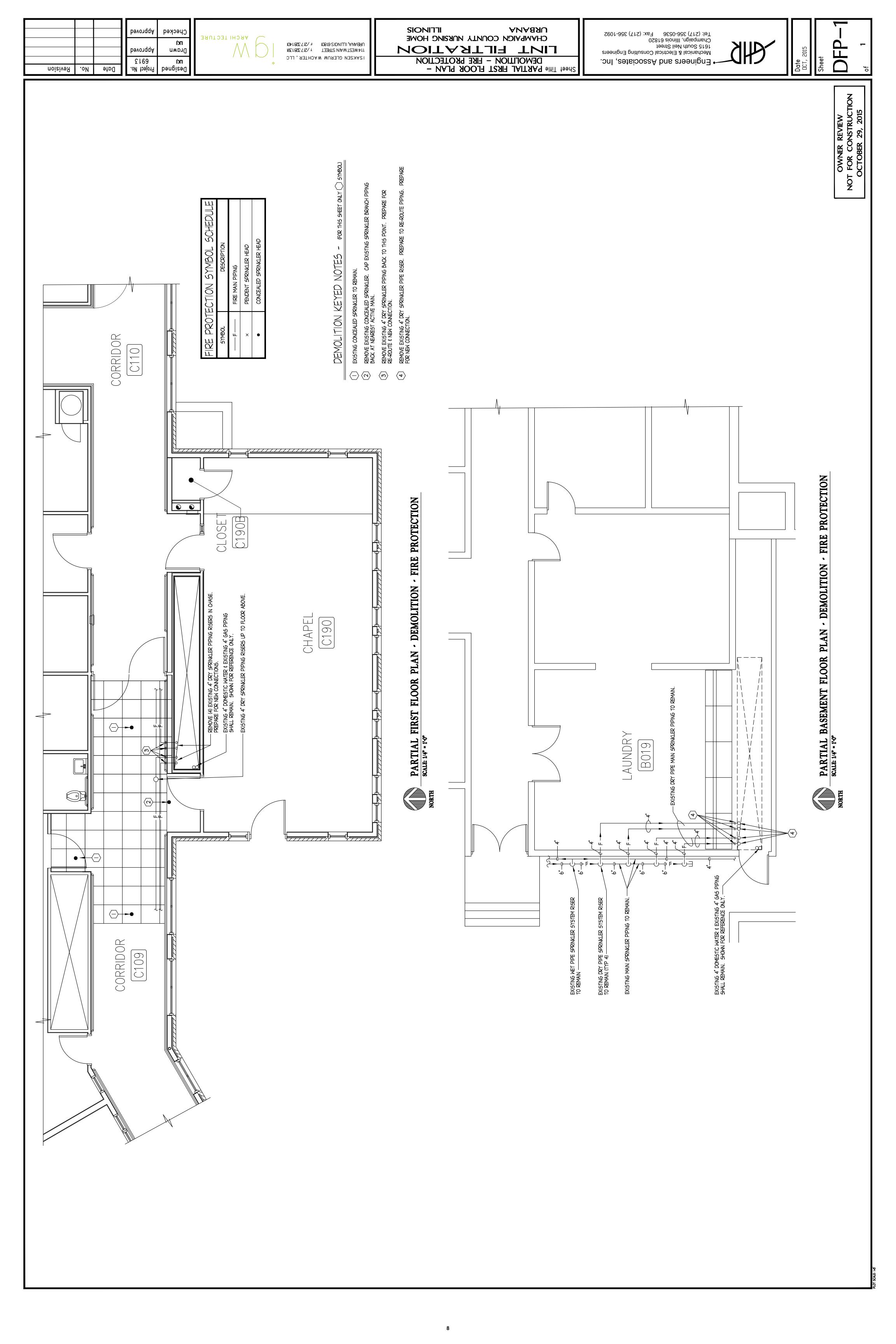
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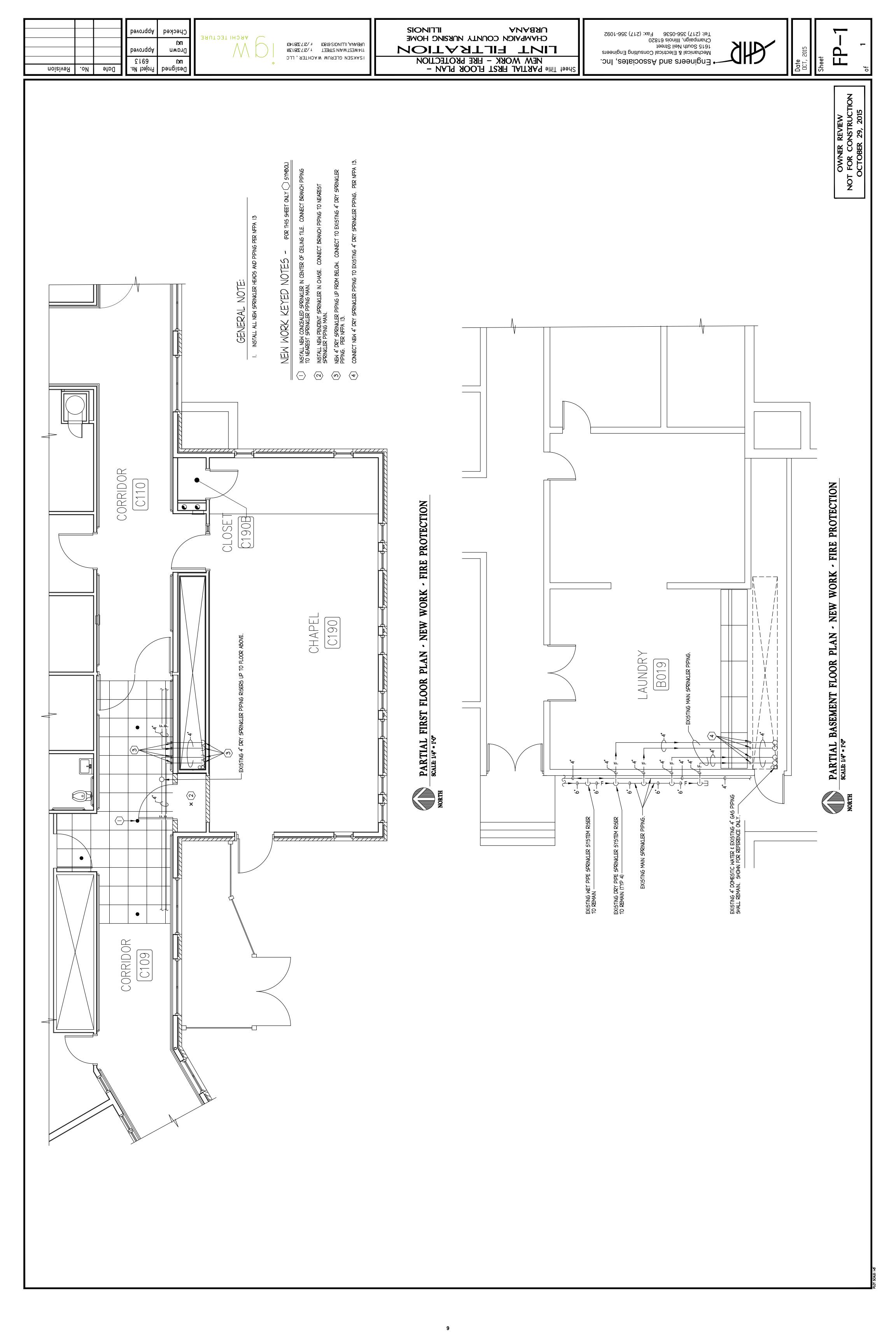
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PROTECT EXISTING BUILDING TO REMAIN. ANY DAMAGE AS A RESULT OF THE DEMOLITION WILL BE REPAIRED TO ITS ORIGINAL CONDITION AT THE EXPENSE OF THE CONTRACTOR.

Engineers and Associates, Inc. Mechanical & Electrical Consulting Engineers 1615 South Neil Street Champaign, Illinois 61820 Tel: (217) 356-0536 Fax: (217) 356-1092	ENERAL DEMOLITION NOTES  ALL WORK BY GENERAL CONTRACTOR UNLESS NOTED OTHERWISE.  COORDINATE ALL WORK SHOWN ON THIS SHEET WITH ALL OTHER WORK, ALL SPECIFICATIONS AND DRAWING SHEETS PRIOR TO BID.  REFER TO MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION DRAWINGS FOR DETAILED DEMOLITION INFORMATION AND DETAILS  WHERE DEMOLITION IS NOT INDICATED, EXISTING CONDITIONS ARE TO REMAIN INTACT.  ITEMS SHOWN IN DARK DASHED LINE ARE TO BE REMOVED OR REMOVED AND REINSTALLED AS NOTED. REMOVE ITEMS IN THEIR ENTIRETY IF NOT TO BE REUSED.  ITEMS SHOWN LIGHT ARE EXISTING TO REMAIN, UNLESS OTHERWISE NOTED.  REMOVAL OF EXISTING MECHANICAL, ELECTRICAL AND PLUMBING WORK IS NOT COMPLETELY SHOWN ON A REHIFFOTURAL DRAWINGS. ALL DEMOLITION DUE TO HYAC, ELECTRICAL, PLUMBING AND FIRE PROTECTION WORK IS SHOWN ON THE HY, E, P, AND FP SHEETS, THIS WORK WILL BE DONE BY THE CONTRACTOR FOR EACH TRADE.
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• <b>М</b> • В • В • В • В • В • В • В • В • В •	WITH THE LEAST POSSIBLE DISTURBANCE TO THE SURROUNDING TENANTS AND OPERATIONS. MAINTAIN ALL EXISTING BUILDING SERVICES IN USE AT ALL TIMES UNLESS PERMISSION IS RECEIVED FROM BUILDING MANAGEMENT TO TEMPORARILY INTERRUPT SERVICE. PERMANENTLY RECONNECT ALL SERVICE DISRUPTED BY THE PROJECT WORK WHETHER WITHIN OR OUTSIDE OF THE CONTRACT LIMIT LINES.  THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH BUILDING MANAGEMENT RULES AND REGULATIONS ON MATERIAL HANDLING, EQUIPMENT, DEBRIS AND/OR LOADING DOCK AVAILABILITY.  CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE OWNER FOR SPECIFIC REQUIREMENTS RELATING TO ACCESS TO THE SITE/BUILDING, INCLUDING USE OF ELECTRIC, WATER AND TOILET FACILITIES.
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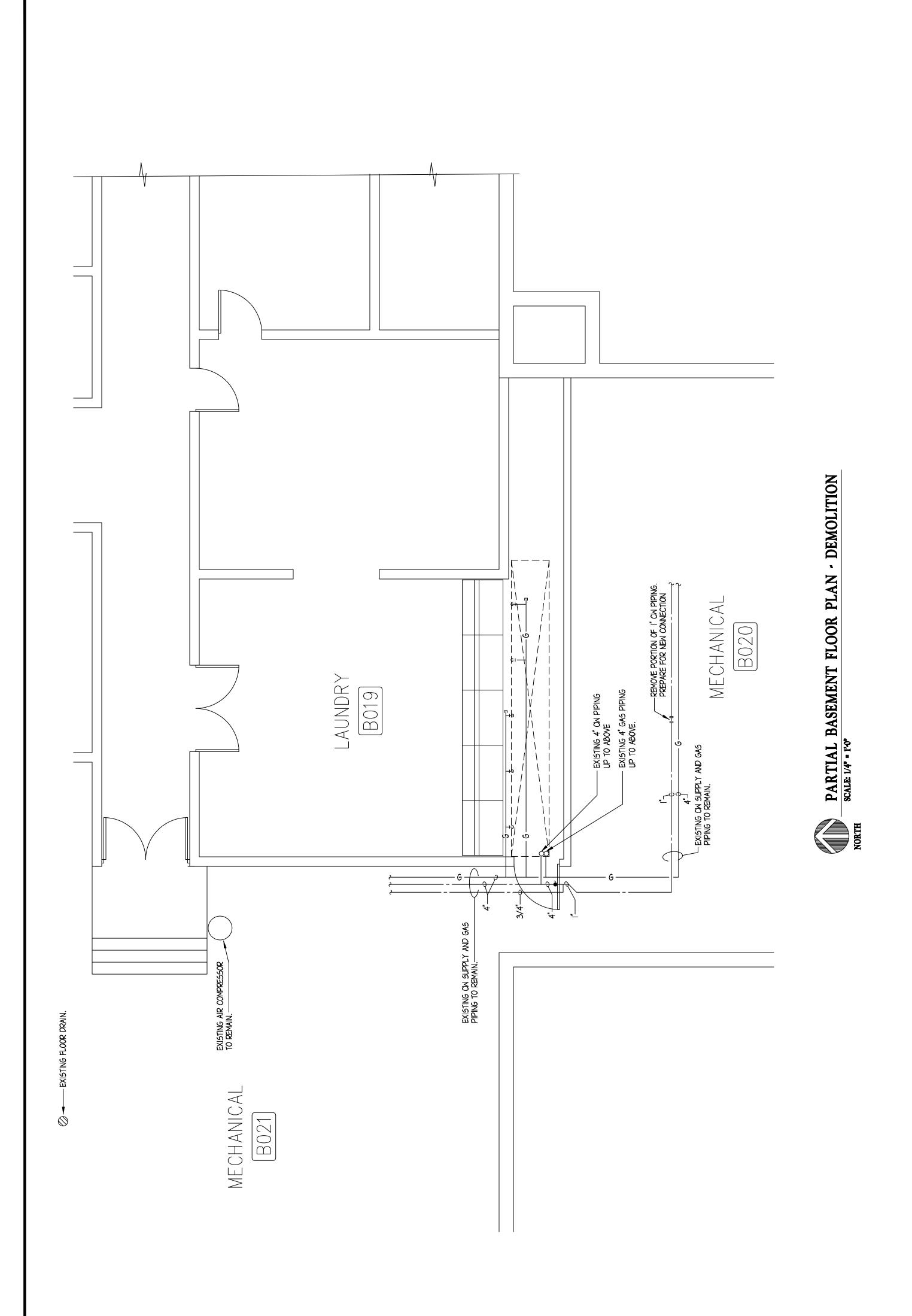


SIONITI Approved Срескед ARCHI TECTURE ГΚΊ 114 WEST MAIN STREET T/217 3281391 1041 822 7 ISZ 1401 Approved Drawn ISAKSEN GLERUM WACHTER, LLC 69۱2 ΓΚΊ Designed Project No. Sheet Title PARTIAL BASEMENT FLOOR PLAN -Date Revision .oN

**URBANA** CHAMPAIGN COUNTY NURSING HOME LINT FILTRATION DEMOLTION - PLUMBING

Mechanical & Electrical Consulting Engineers 1615 South Neil Street
Champaign, Illinois 61820
Tel: (217) 356-0536 Fax: (217) 356-1092 Engineers and Associates, Inc.

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OCTOBER 29, 2015



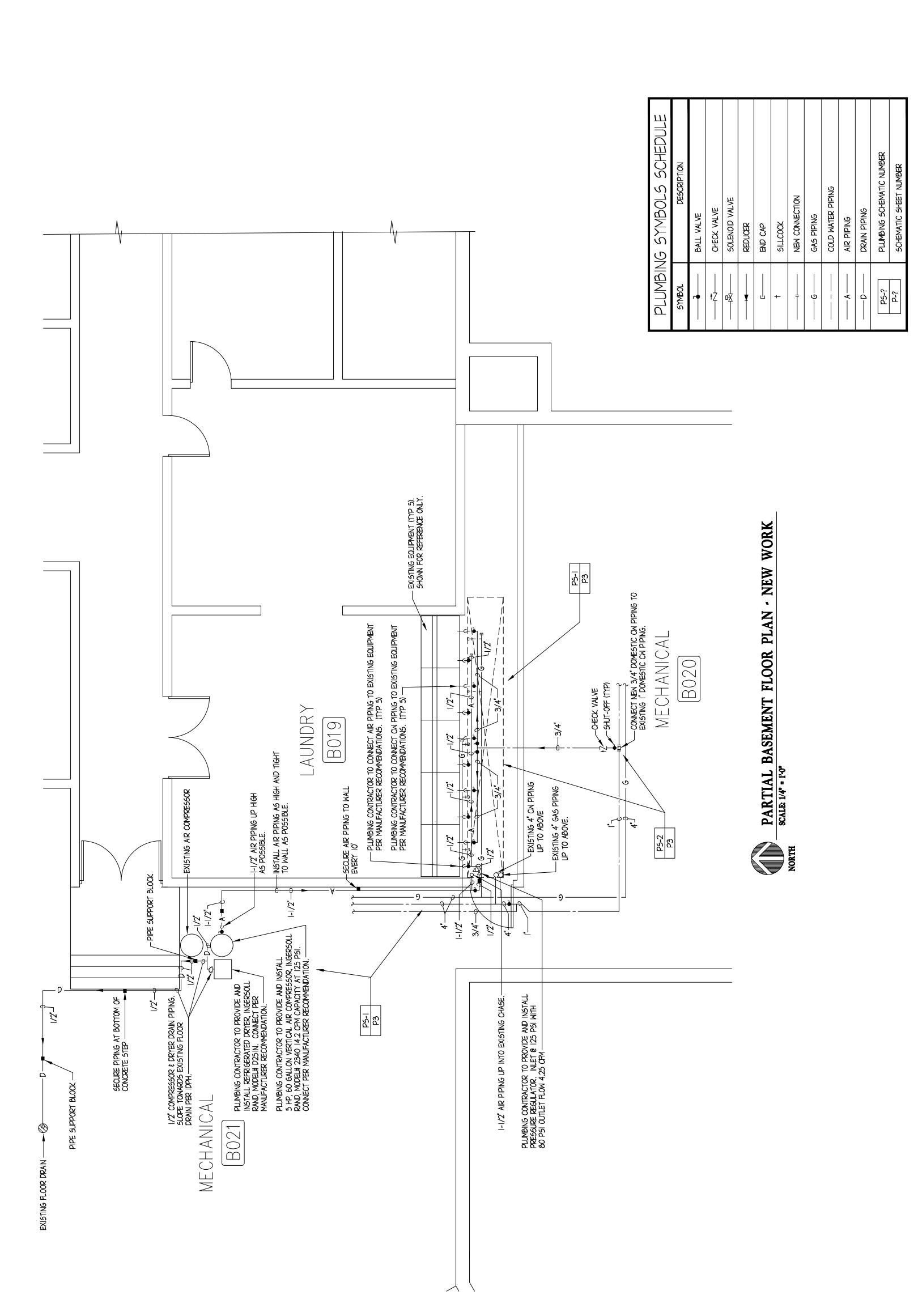
Mechanical & Electrical Consulting Engineers 1615 South Meil Street Champaign, Illinois 61820 Tel: (217) 356-1092 Engineers and Associates, Inc.

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OCTOBER 29, 2015

SIONITI **URBANA** CHAMPAIGN COUNTY NURSING HOME LINT FILTRATION NEW WORK - PLUMBING Sheet Title PARTIAL BASEMENT FLOOR PLAN -

ARCHI TECTURE 1041822712/a 10813210NLLI1,4NA89U 114WESTMAN STREET T/ZI73281391 ISAKSEN GLERUM WACHTER, LLC

Approved Сһескед ΓΚΊ Approved Drawn 69۱2 ΓΚΊ Designed Project No. Revision .oN Date



SIONITI **URBANA** Approved Срескед Mechanical & Electrical Consulting Engineers 1615 South Neil Street Champaign, Illinois 61820 Tel: (217) 356-0536 Fax: (217) 356-1092 **ARCHITECTURE** CHAMPAIGN COUNTY NURSING HOME ΓΚΊ 1041822712\1 = 10818201LLI1 (ANA 8910 LINT FILTRATION Approved Drawn 114WESTMAN STREET T/ZI73281391 ISAKSEN GLERUM WACHTER, LLC NEW WORK - PLUMBING Engineers and Associates, Inc. 912ع ΓΚΊ Designed Sheet Title PARTIAL FIRST FLOOR PLAN -Project No. Revision .oN Date OWNER REVIEW
T FOR CONSTRUCTION
OCTOBER 29, 2015 NOT CORRIDOR CORRIDOR  $\begin{bmatrix} C110 \end{bmatrix}$ C190B C190B CLOSE CLOSE PARTIAL FIRST FLOOR PLAN - DEMOLITION SCALE: 1/4" = 1:0" PARTIAL FIRST FLOOR PLAN - NEW WORK SCALE: 1/4" = 1:0" CHAPEL (C190) I-I/2" AIR PIPING, 2' AFF IN CHASE. PLUMBING CONTRACTOR TO INSTALL SOLENOID VALVE PROVIDED BY MANUFACTURER. CHAPEL C190 I-1/2" AIR PIPING UP FROM BELOW IN CHASE  $\sqrt{}$  EXISTING DOMESTIC CM PIPING AND GAS PIPING TO REMAIN. PLUMBING CONTRACTOR TO INSTALL SOLENOID VALVE PROVIDED BY MANUFACTURER. 9/4" CM PIPING DOWN WALL 3' THEN OUT TO LINT FILTRATION UNIT.
PLUMBING CONTRACTOR TO CONNECT PER MANUFACTURER RECOMMENDATIONS. - INSTALL HEAT TRACE WIRE ON 3/4 CM PIPING. — REMOVE PORTION OF 4" CW PIPING
AND PREPARE FOR NEW CONNECTION.

4" INSTALL AIR PIPING TIGHT
TO WALL AS POSSIBLE
SECURE AIR PIPING TO WALL
EVERY IO' AND WHENEVER
NEEDED. EXISTING FROST PROOF SILLCOCK TO REMAIN.— CONNECT NEW 3/4" DOMESTIC CW PIPING
TO EXISTING 4" CM DOMESTIC CW PIPING

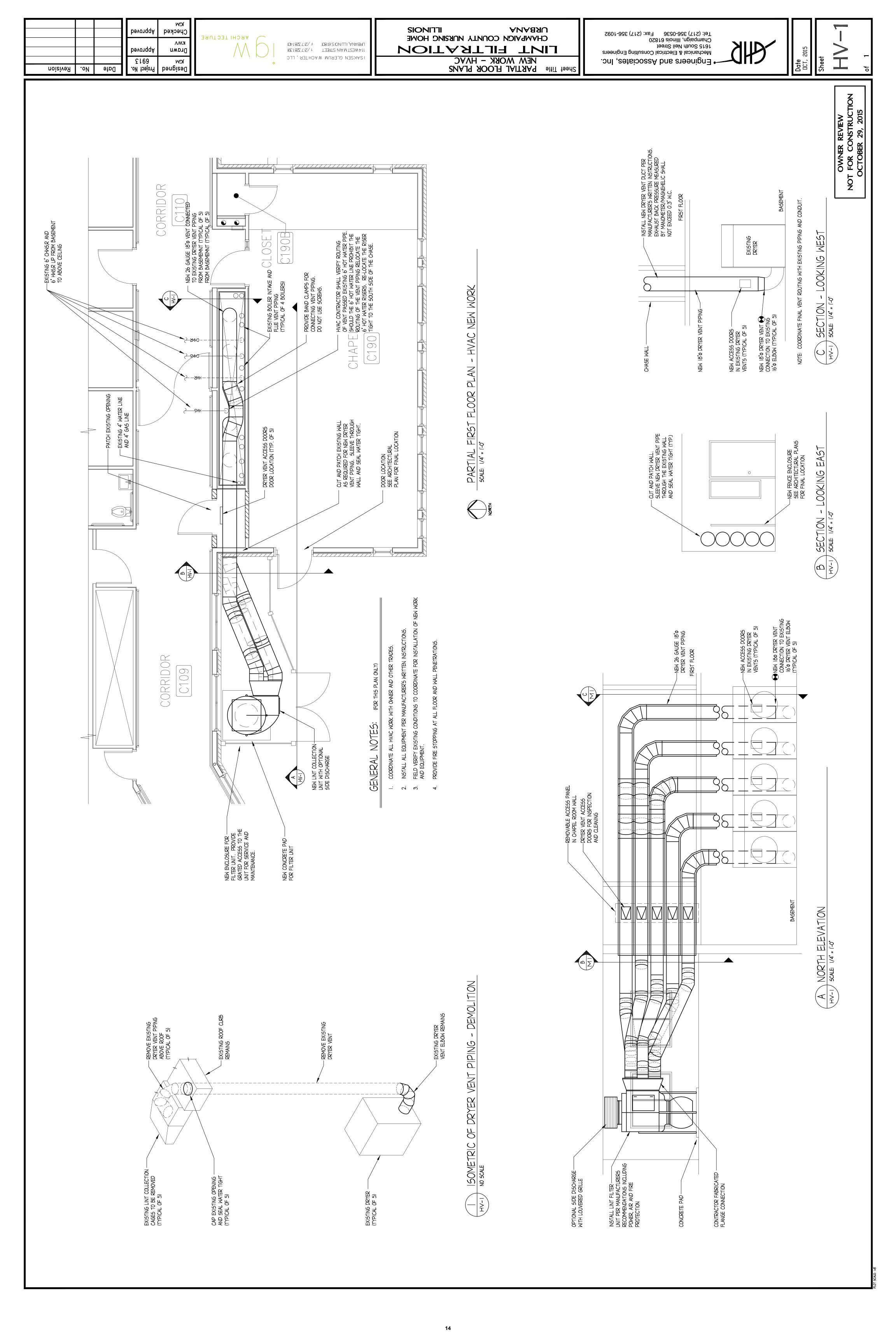
CONNECT NEW 3/4" DOMESTIC CW PIPING

CONNECT NEW CORRIDOR C1010 SHUT-OFF ——CHECK VALVE — INSTALL GAUGE PROVIDED BY MANUFACTURER. PLUMBING CONTRACTOR TO CONNECT I" AIR PIPING PER MANUFACTURER RECOMMENDATION. NEW LINT FILTRATION UNIT SHOWN FOR REFERENCE ONLY

SIONITI **URBANA** Approved Сһескед Mechanical & Electrical Consulting Engineers 1615 South Neil Street
Champaign, Illinois 61820
Tel: (217) 356-0536 Fax: (217) 356-1092 3 CHAMPAICH COUNTY NURSING HOME ARCHI TECTURE ΓΚΊ 10813210NLL11, ANA891U 101/328/40I LINT FILTRATION Approved Drawn 114WESTMAIN STREET 19218<u>2</u>271<u>2</u>\1 ISAKSEN GLERUM WACHTER, LLC Engineers and Associates, Inc. 69۱2 ГΚΊ Sheet Title PLUMBING - DETAIL Project No. Designed Date Revision .oN OWNER REVIEW
OT FOR CONSTRUCTION
OCTOBER 29, 2015 ANCHOR COLLAR / HOLLOW WATER STOP/CONTINUOUS MOLDED NOT PIPING EXPOSED TO VIEW RATED WALLS ELASTOMERIC SEAL ELEMENT LS MODEL (C, L, S-316, O, OS-316, T) BAND CLAMP -BOLT --PRESSURE PLATE -LINK-SEAL -CENTURY-LINE FLOOR THRU EXTERIOR WALL NTER OR 8 10° OR AS REQU 2"x4"x6" LONG BLOCK BLOCK SUPPORT EVERY SLEEVE PIPE SUPPORT NO SCALE SLEEVE SEAL OR CAULK SLEEVES THRU FIRE WALLS WITH RATED MATERIAI TERMINATE SLEEVE FLUSH MITH FINISHED WALL SURFACES ----DIDE NO SCALE 4 D D SCALE PLUMBING CONTRACTOR TO CONNECT 1/4" AIR PIPING TO EXISTING EQUIPMENT, PER MANUFACTURER RECOMMENDATION. (TYP 5). PLUMBING CONTRACTOR TO PROVIDE AND INSTALL PRESSURE REGULATOR. INLET @ 125 PSI MITH 80 PSI FLOWING 4.25 CFM. CONTINUATION OF 1° DOMESTIC CM PIPING NOT SHOWN ON SHEET P1. SHOWN FOR REFERENCE ONLY. CONNECT NEW 3/4" DOMESTIC CM PIPING TO I" DOMESTIC CM PIPING. PLUMBING CONTRACTOR TO INSTALL SOLENOID VALVE PROVIDED BY THE MANUFACTURER. I-1/2" AIR PIPING UP INTO EXISTING CHASE. PLUMBING CONTRACTOR TO INSTALL SOLENOID VALVE PROVIDED BY THE MANUFACTURER. CHECK VALVE TO LINT FILTRATION UNIT. SEE SHEET P2 FOR CONTINUATION OF I\* DOMESTIC CM PIPING. - PLUMBING I" AIR PIPING SEE SHEET P2 FOR CONTINUATION OF I" AIR PIPING. <u>|-|-|/2</u>" PLUMBING CONTRACTOR TO PROVIDE AND INSTALL A 5 HP, 60 GALLON, GALLON AIR COMPRESSOR. INGERSOLL RAND, MODEL# 2340. CONNECT PER MANUFACTURER RECOMMENDATION. AIR PIPING ISOMETRIC - NEM MORK - PLUMBING DOMESTIC CM PIPING ISOMETRIC - NEW MORK NO SCALE: PLUMBING CONTRACTOR TO PROVIDE AND INSTALL AIR DRYER UNIT. INGERSOLL RAND, MODEL# D25IN-72-A. CONNECT PER MANUFACTURER RECOMMENDATION.

SEE SHEET PI FOR CONTINUATION OF 1/2" DRAIN PIPING. ¬

PLUMBING CONTRACTOR TO CONNECT NEW DOMESTIC 3/4" CM PIPING TO EXISTING EQUIPMENT. PER MANUFACTURER RECOMMENDATION. (TYP 5).

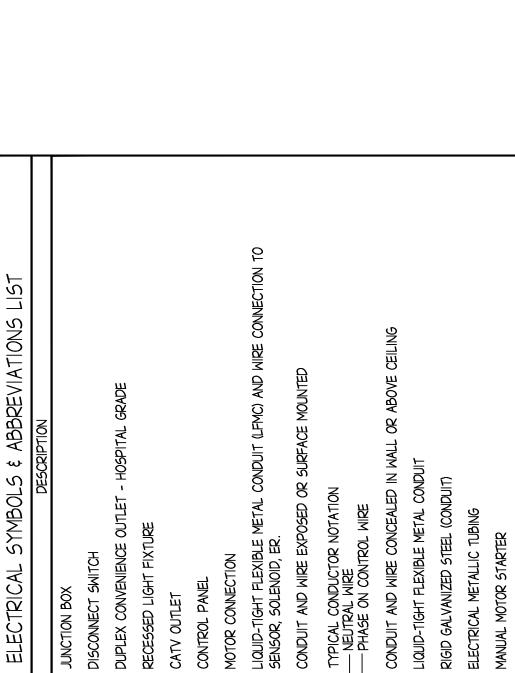


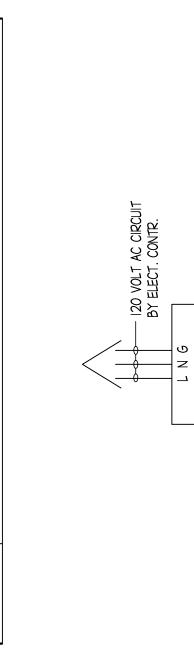
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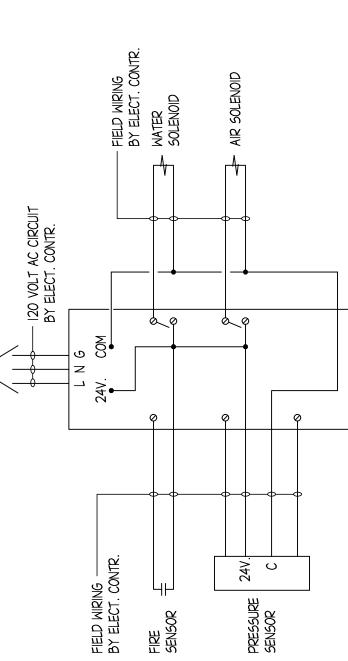
> RAYCHEM SELF-REGULATING HEAT TRACE CABLE, 3 WATT/FT, 120 V., 3BTVI-CT. APPLY TO WATER SUPPLY LINE FROM BUILDING WALL TO LINT FILTER CONNECTION. FIELD VERIFY EXACT LENGTH AND ROUTING. PROVIDE END SEAL, RAYCHEM E-150, ON END OF HEAT TRACE CABLE.

2#12 AND #12 GROUND IN 1/2" CONDUIT TO NEW IP-15A 30 MILLIAMP EQUIPMENT CLASS CIRCUIT BREAKER IN EXISTING PANEL BBCA. WEATHER-PROOF JUNCTION BOX AND FLEXIBLE CONNECTION TO HEAT TRACE POWER CONNECTION. RAYCHEM HEAT TRACE TAPE POMER CONNECTION, JBS-100-L-A, FOR SINGLE HEATING CABLE.  $\boxed{ }$ (0) Z 4 4 3 2

KEYED NOTES:  $\langle - \rangle$ ELECTRICAL SYMBOLS & ABBREVIATIONS LIST







LINT FILTER CONTROL DIAGRAM NO SCALE

PROVIDE NEW IP-20A CIRCUIT BREAKER IN EXISTING SPACE #72 IN PANEL BBCA.
PROVIDE NEW 3P-30A CIRCUIT BREAKER IN EXISTING SPACE #74 (76, 78) IN PANEL BBCA.
PROVIDE NEW IP-20A HACR RATED CIRCUIT BREAKER IN EXISTING SPACE 80 IN PANEL BBCA.
PROVIDE NEW IP-15A 30 MILLIAMP CLASS GFI BREAKER IN EXISTING SPACE 82 IN PANEL BBCA.

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PROVIDE 3P-30A FUSED DISCONNECT SMITCH MITH 3#10 AND #10 GROUND IN 3/4" CONDUIT TO NEW 3P-30A CIRCUIT BREAKER IN PANEL BBCA. PROVIDE 3#10 AND #10 GROUND IN 3/4" CONDUIT TO NEW AIR COMPRESSOR.

CHAMPAIGN COUNTY NURSING HOME

NEW WORK - ELECTRICAL

PARTIAL FLOOR PLANS

FILTRATION

LINT FILTER CONTROL PANEL. PROVIDE 2#12 AND #12 GROUND IN 1/2" CONDUIT 10 NEW IP-20A CIRCUIT BREAKER IN PANEL BBCA.

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REMOVE RECESSED LIGHT FIXTURE AND CIRCUIT BACK TO NEXT ACTIVE DEVICE OR JUNCTION BOX.

 $\langle \overline{4} \rangle$  $\left\langle \overline{\upsilon }\right\rangle$ 

RELOCATE EXISTING RECEPTACLE TO CLEAR NEW DOOR. CUT AND PATCH WALL AS NECESSARY TO PERFORM WORK.  $\langle \mathcal{Q} \rangle$ 

**URBANA** 

TNI

Sheet Title

PROVIDE JUNCTION BOX(ES) AND CONNECTORS TO WATER AND COMPRESSED AIR SOLENOIDS. VERIFY EXACT LOCATION(S) WITH MECHANICAL PLANS. RELOCATE EXISTING CATV OUTLET. PROVIDE 3/4" CONDUIT TO ABOVE THE CORRIDOR CEILING. EXTEND EXISTING CATV CABLE TO NEW LOCATION WITH CABLE, SIZE AND TYPE TO MATCH EXISTING. CUT AND PATCH WALL AS NECESSARY TO PERFORM WORK.  $\langle \overline{\nu} \rangle$ 

LFMC

RG5

FIELD VERIFY EXACT LOCATION PROVIDE 2#14 IN 3/4" LFMC TO COMPRESSED AIR SOLENOID. FIELD VERIFY EXACT LOCATION. PROVIDE 2#14 IN 3/4" LFMC TO WATER SOLENOID.  $\langle \mathbf{o} \rangle$ 

PROVIDE 4#14 IN 3/4" LFMC TO LINT FILTER PRESSURE SMITCHES/SEN

PROVIDE 2#14 IN 3/4" LFMC TO LINT FILTER FIRE SENSOR PROVIDE WEATHER PROOF JUNCTION BOX(ES).

PROVIDE 12#14 AND #14 GROUND IN 3/4" EMT TO LINT FILTER CONTROL PANEL. PROVIDE 6#14 AND #14 GROUND IN 3/4" RGS CONDUIT.  $\left\langle \mathcal{Q} \right\rangle \left\langle \overline{\mathcal{Q}} \right\rangle$ 

PROVIDE MANUAL MOTOR STARTER WITH 2#12 AND #12 GROUND IN 1/2" CONDUIT TO NEW IP-20A HACR CIRCUIT BREAKER IN PANEL BBCA. PROVIDE 2#12 AND #12 GROUND IN 1/2" CONDUIT TO NEW AIR DRYER. SEE AUXILLIARY PLAN THIS SHEET FOR HEAT TRACE TAPE INSTALLATION.

 $\langle \overline{o} \rangle$ 

OWNER REVIEW I FOR CONSTRUCTION OCTOBER 29, 2015 NOT

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Сһескед ΚMΛ Drawn BCL

Designed

CORRIDOR [C110]

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**Approved** 

**Approved** 

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Revision

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Date

Project No.

ARCHI TECTURE

10712281401 192 1 822 7 IS/ T

10813 2 10 N LLI 1, A NA 890 114 WESTMAIN STREET ISAKSEN GLERUM WACHTER, LLC

- ELECTRICAL NEW WORK

PARTIAL FIRST FLOOR PLAN SCALE: 1/8"= 1-0"

MECHANICAL B020

LAUNDRY (B019)

MECHANICAL B021

 $\langle - \rangle$ 

CHAPEL [C190]

PARTIAL BASEMENT FLOOR PLAN - ELECTRICAL NEW WORK scale: 1/8"= 1-0"

- HEAT TRACE TAPE INSTALLATION PARTIAL FIRST FLOOR PLAN SCALE: 1/4"= 1:0"