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**REVISIONS** 

FOR CONSTRUCTION

**COVER SHEET** 

**AND INDEX** 

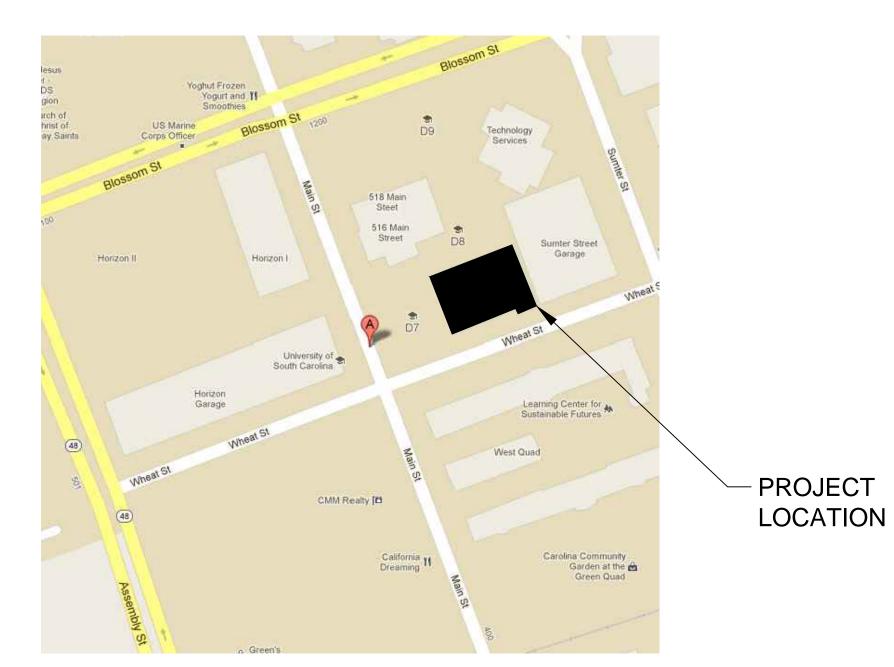
G100

09-27-12

# University of South Carolina

## COMPUTER ANNEX RESTROOM RENOVATION 514 SOUTH MAIN STREET

Columbia, SC

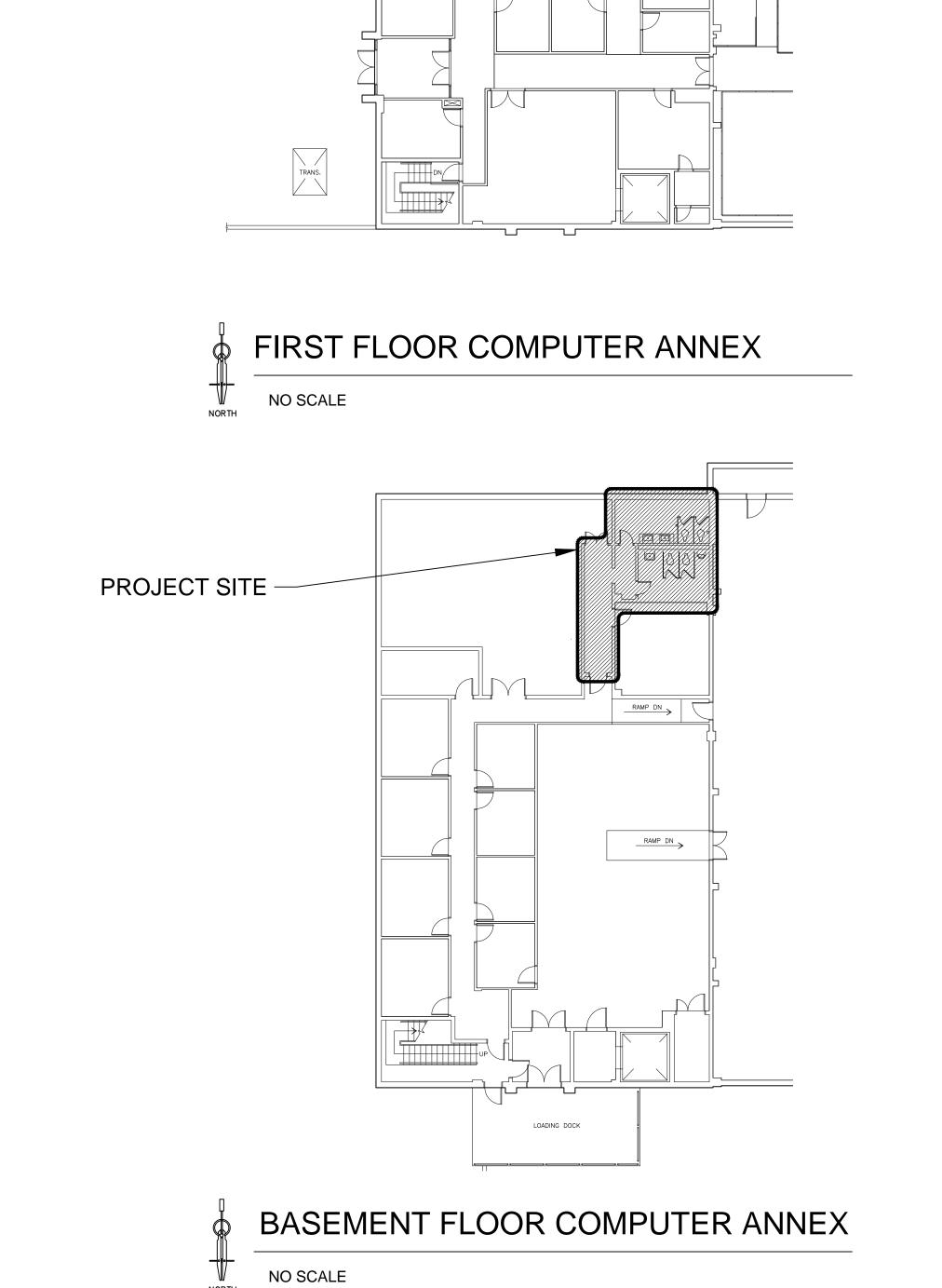


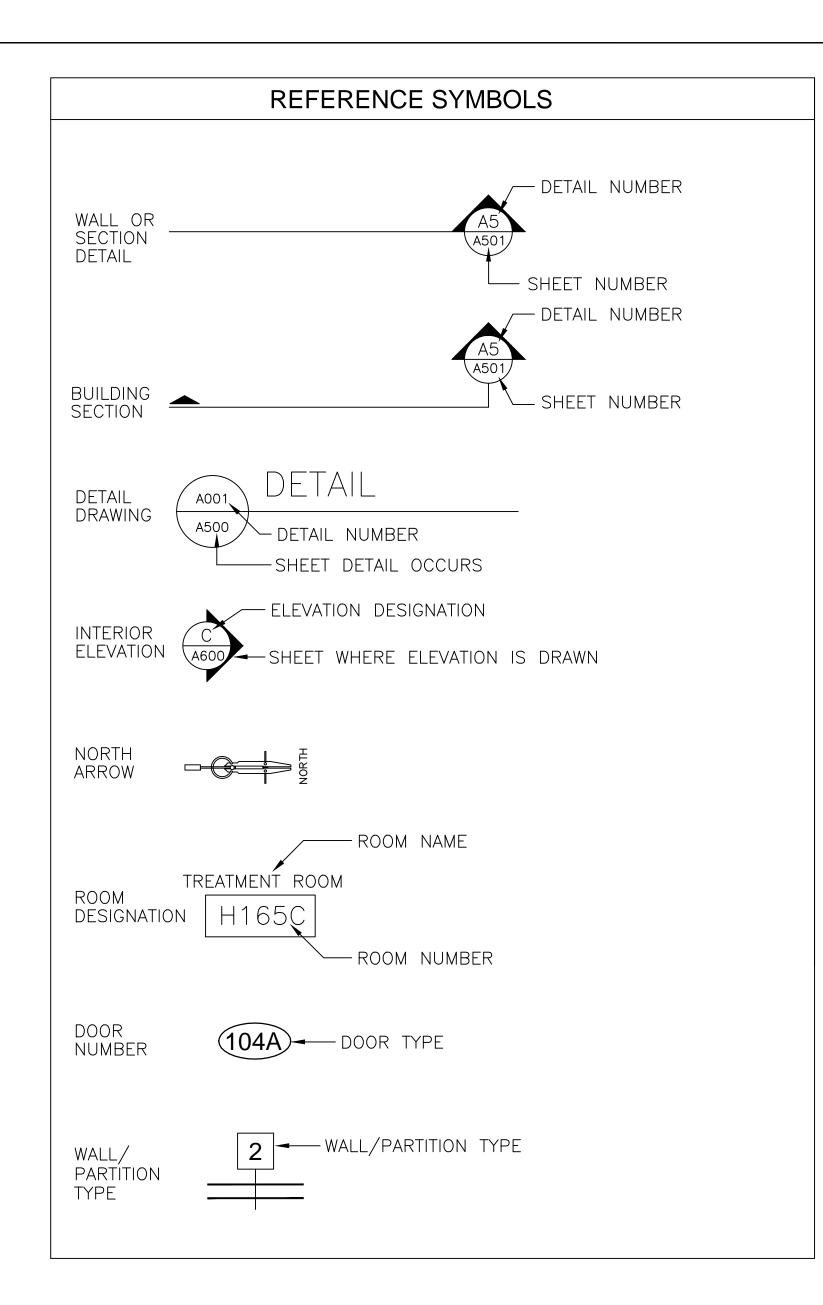
	LOCATION MAP, COLUMBIA, SC
NORTH	NO SCALE

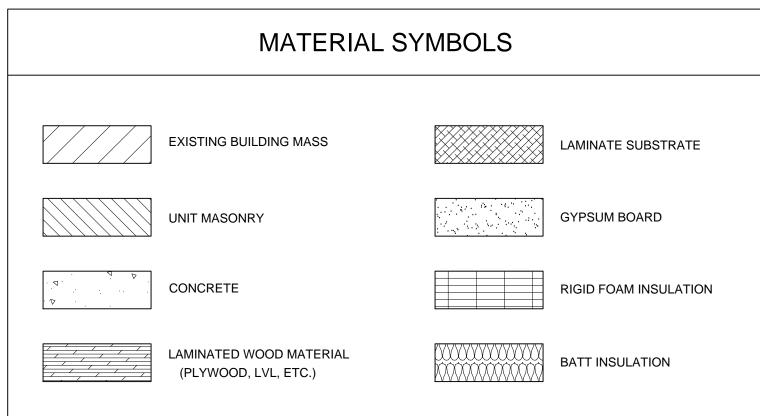
Compass 5 Partners, LLC					
1329 State Stre Cayce, South C 29033					
803-765-0838 ( compass5partn					
SHEET No.	DESCRIPTION				
G100	COVER SHEET AND INDEX				
G101	CODE SHEET, NOTES, SYMBOLS, AND LEGEND				
AD100	DEMOLITION PLANS				
A100	RENOVATION PLANS				
A300	INT. ELEVATION AND ACCESSORY SCHEDULE				
A400	FINISH PLAN AND SCHEDULES				

Swygert & Associates					
1315 State Street Cayce, South Carolina 29033					
803-791-9300 (	Office				
SHEET No.	DESCRIPTION				
PD100	DEMOLITION FLOOR PLANS				
P100	RENOVATION FLOOR PLANS				
P200	DETAILS, NOTES, SCHEDULES, AND LEGEND				
M100	FLOOR PLANS, NOTES, SCHEDULE, DET., & LEGEND				

ELECTR	ELECTRICAL ENGINEER				
Sims Group					
800 Columbiana I Suite 208 Irmo, SC 29063 803-765-1007 Of 803-765-1030 Fa 803-608-8094 Mo	fice X				
SHEET No.	DESCRIPTION				
E001	ELECTRICAL SYMBOLS AND DETAILS				
E101	LIGHTING PLANS				
E201	POWER PLANS				







#### INTERNATIONAL EXISTING BUILDING CODE: 2009 EDITION

#### TABLE 5.6-1. DESIGN CODES AND STANDARDS

PROJECT DESIGNED IN ACCORDANCE WITH:

- International Existing Building Code, 2009 Edition.
- International Building Code, 2009 Edition International Energy Conservation Code, 2009 Edition.
- International Fire Code, 2009 Edition.
- International Fuel Gas Code, 2009 Edition. International Mechanical Code, 2009 Edition.
- International Plumbing Code, 2009 Edition. ICC Electrical Code, Administrative Provisions, Administrative Provisions, ICC EC-2006 Edition.
- National Electrical Code, NFPA 70, 2005 Edition
- National Electrical Safety Code, ANSI-C2-2002 Edition. 12. State Fire Marshal Regulations, latest revision
- 13. ASHRAE/IESNA 90.1, Energy Standard for Buildings except Low-Rise Residential Buildings 2001 Edition. 14. ICC/ANSI-A117.1-2003, Accessible and Usable Buildings and Facilities.

#### TABLE 5.6-2. BASIC CODE REVIEW INFORMATION

- Site Development
- 1.1 Total Area of Project Site (in acres): N/A A. Total Area of Project Site that will be Disturbed/Developed (in acres): N/A
- B. Municipality and/or County Where Project is Located: CITY OF COLUMBIA, RICHLAND COUNTY C. Jurisdiction for: OFFICE OF THE STATE ENGINEER
- 1. Site Work: CITY OF COLUMBIA, STATE OF SOUTH CAROLINA
- Project in Fire District? Yes No X 2. Fire Department: CITY OF COLUMBIA CITY OF COLUMBIA
- CITY OF COLUMBIA
- 5. Zoning: CITY OF COLUMBIA Land Use Zone: C4-PD
- 1.2. Is Project in a Flood Plain?
- 1.3. Is Project in Wetlands Area? Yes No X
- Occupancy
- A. Occupancy Classification: BUSINESS B. Additional Occupancy Classification(s) N/A
- Type of Construction
  - A. Construction Classification: <u>II-B</u> Unprotected
  - B. Is the building construction protected or unprotected? Noncombustible
  - $^{\circ}$ C. Is the building construction of combustible or noncombustible materials?  $\_$ D. Is the building provided with a fire protection sprinkler system?
- General Building Design, Allowable Area, Height and Occupant Load Building Area Allowed By IBC Table 500: (See Tables 5.6-3, 5.6-4, 5.6-5)

#### TABLE 5.6-3: BUILDING AREA (EXISTING)

	Square Footage	Square Footage as Allowed by IBC			
Floor or Level	Total Design Area	Without Increase (IBC Table 503)	Frontage Increase (IBC 506.2)	Sprinkler Increase (IBC 506.3)	Total Allowable Area (IBC 506.1)
BASEMENT Design Area Total Area	489 17,949	N/A N/A	N/A N/A	N/A N/A	N/A N/A
FIRST FLOOR Design Area Total Area	429 18,005	N/A N/A	N/A N/A	N/A N/A	N/A N/A
Total Floor (Area Incl. all Increases)	35,954	N/A	N/A	N/A	N/A

#### TABLE 5.4: BUILDING HEIGHT

	As [	)esigned	As Allowed by IBC		
	In Feet In Stories		In Feet	In Stories	
Without any Allowable Increase	N/A	N/A	N/A	N/A	
Allowable Height Increase	N/A	N/A	N/A	N/A	
Total Height including any Allowable Increase	EXISTING	EXISTING	N/A	N/A	

#### TABLE 5.6-5: BUILDING DESIGN OCCUPANT LOAD

17 DEL 0.0 0. DOIEDINO DEGICIO 00001 7 (141 E07 (D						
Area	Occupancy Type	Occupancy Floor Area	Floor Area in SF/Occupant	Occupants per Occupancy Type	Design Occupant Load	
BASEMENT	В	17,949 GSF	100/GSF	180	180	
FIRST FLOOR	В	18,005 GSF	100/GSF	181	181	
					361	

#### **GENERAL NOTES**

TABLE 5.6-7: OTHER FIRE PROTECTION REQUIREMENTS

 $\times$ 

1. Service Transformer: Existing By Utility? N/A By Agency? N/A

Service Voltage/Phase: 208/120V 3-PHASE Amperes: NA

Available Fault Current in Symmetrical Amperes: Existing

5. Emergency Egress Illumination, Minimum Footcandles: 1

7. Lightning Protection Provided?: Yes \_\_\_\_ No \_X

Interrupting Capacity of Service Overcurrent Device: Existing

4. Exit/Emergency Lights Backup Power: Integral Battery X Generator

Service Entrance Conductors Size: N/A Quantity per Phase:

TABLE 5.6-11: ELECTRICAL INFORMATION

If by Agency: KVA: N/A Primary Voltage/Phase: N/A

Type of Grounding Electrode System(s) per NEC 250-C: WATER PIPE + SUPP.

3. Emergency Generator (if any): N/A KVA Voltage/Phase N/A Fuel N/A

6. Fire Alarm System: Manual N/A Automatic N/A Addressable? \_\_\_ Class A or B?

Yes No

Comments

Not for this project

Estimated Demand Factor:

Class III

Item

Are Penetrations per U. L. Listing /Testing Authority?

2. Provide the following service information:

Total Connected Load KVA: 3.54

Estimated Maximum Demand KVA: N/A

Are Smoke Barriers Required?

Opening Protectives Required?

Is Draftstopping Required?

Is Fireblocking Required?

Are Sprinklers Required?

Are Standpipes Required?

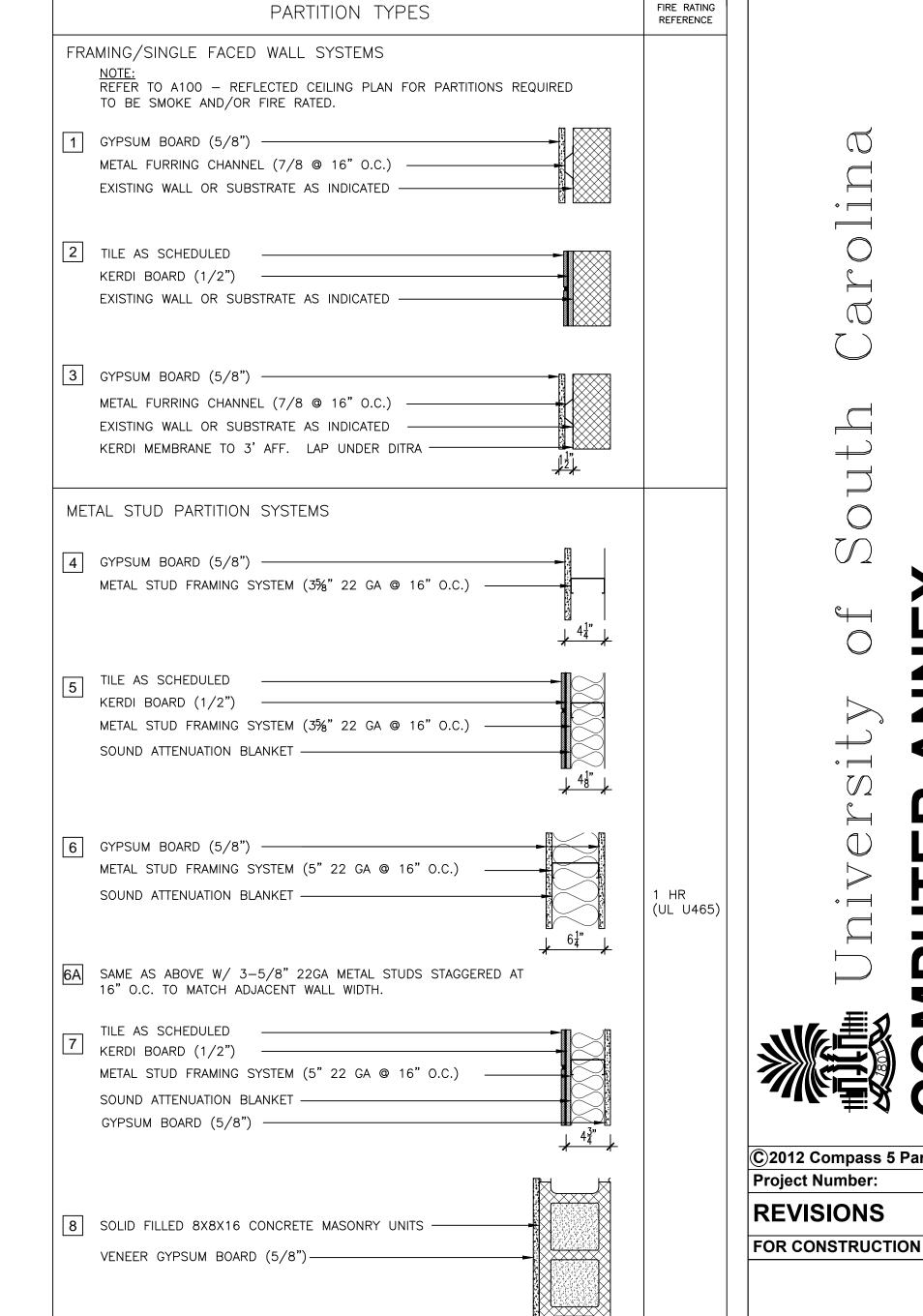
Is a Fire Alarm System Required?

Is a Smoke Control System Required?

Protection of Penetrations Required?

Smoke Partitions Required?

- ASBESTOS ABATEMENT OR ANY OTHER HAZARDOUS MATERIAL ENCOUNTERED IS NOT PART OF THE SCOPE OF WORK. CONTRACTOR SHALL CONTACT OWNER IMMEDIATELY IF ANY SUSPECT MATERIALS ARE ENCOUNTERED.
  - 2. EXISTING CONDITIONS SHOWN ON DRAWINGS BASED ON INFORMATION PROVIDED BY THE UNIVERSITY OF SOUTH CAROLINA. THIS INFORMATION IS FOR REFERENCE ONLY AND MUST BE VERIFIED BY THE CONTRACTORS.
  - 3. GENERAL CONTRACTOR AND ALL APPROPRIATE SUBCONTRACTORS SHALL VERIFY ALL DIMENSIONS IN FIELD PRIOR TO COMMENCING DEMOLITION AND NEW CONSTRUCTION.
  - 4. ALL WORK PERFORMED ON EXISTING WARRANTED SYSTEMS OR ASSEMBLIES SHOULD BE PERFORMED BY APPROVED CONTRACTORS FOR SUCH ASSEMBLIES AND IN SUCH A MANNER THAT EXISTING WARRANTIES ARE NOT VOIDED OR JEOPARDIZED IN ANY MANNER.
  - 5. SEE PLANS FOR REQUIREMENTS OF FIRE RATINGS AND SOUND CONTROL.
  - 6. WALL DIMENSIONS SHOW ON PLANS ARE TO FACE OF EXISTING AND OR NEW GYPSUM
  - . EXISTING PARTITIONS SHALL BE MAINTAINED AND SECURED DURING DEMOLITION AND
  - B. CONSTRUCTION MATERIALS OR CONSTRUCTION PROCESSES WHICH ARE HAZARDOUS TO WORKERS OR FUTURE OCCUPANTS ARE NOT PERMITTED.
  - 9. THE CONSTRUCTION SUBSYSTEMS AND PARTITION TYPES SHOWN INDICATE THE GENERAL CONSTRUCTION FEATURES OF THE WORK TO BE COMPLETED. THEY ARE NOT INTENDED TO REPRESENT THE ENTIRE CONSTRUCTION PROCESS AND ACCESSORIES USED. THE CONTRACTORS ARE RESPONSIBLE FOR COMPLETED SYSTEMS AND TO BE IN COMPLIANCE WITH GOVERNING CODES AND THE INTENT OF THE CONSTRUCTION DRAWINGS.
  - 10. SEE REFLECTED CEILING PLANS FOR ADDITIONAL REQUIREMENTS FOR PARTITION TYPES AND REFERENCE FOR FIRE RATINGS, SOUND CONTROL, AND OTHER PROTECTIVE CONDITIONS.
  - 11. TESTING AND CODE REFERENCES USED IN THESE DRAWINGS BY ABBREVIATION. OTHER TESTING AGENCIES ARE ACCEPTABLE IF IN COMPLIANCE WITH TESTING STANDARDS.
- 12. FURRED WALL SYSTEMS WITH GYPSUM BOARD SHALL EXTEND A MINIMUM OF 4" ABOVE CEILING LINE, OR WHERE NO CEILING OCCURS, TO UNDERSIDE OF DECK SYSTEM ABOVE.
- 13. SEE MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS BY OTHER FOR ADDITIONAL NOTES AND REFERENCES.
- 14. PROVIDE FIRE CAULK SEALANT AT BOTH NEW AND EXISTING PENETRATIONS THRU FIRE RATED CONSTRUCTION. FIRE CAULK RATING SHALL MATCH RATED SYSTEM BEING PENETRATED. PROVIDE APPROVED BACKER/FILLER MATERIAL AS REQUIRED. CONTRACTOR SHALL PROVIDE A LIST, INCLUDING LOCATION OF ALL CAULKING AND FILLER MATERIAL, WITH U.L. SYSTEM DESIGN NUMBER FOR ARCHITECT'S APPROVAL.
- 15. ALL RATED PARTITIONS SHALL MEET CONSTRUCTION OF UL FIRE-RATINGS AS LISTED. TYPE 'X' GYPSUM BOARD SHALL BE USED WHERE FIRE RATED PARTITIONS ARE INDICATED ON
- 16. PROVIDE UL RATED/LABELED FIRESTOPPING AT FIRE RATED PARTITIONS WHERE SOUND RATINGS ARE CALLED OUT. ALL PARTITION PENETRATIONS SHALL BE SEALED WITH APPROPRIATE RATED SEALANTS. ACOUSTICAL SEALANT IS REQUIRED ALONG THE FULL PERIMETER OF ALL SOUND RATED PARTITIONS.
- 17. METAL STUDS SHALL BE STAGGERED ON EACH SIDE.
- 18. DETAILS ARE SHOWN TO DESCRIBE DESIGN INTENT. COORDINATE COMPLETE SHOP DRAWINGS, SHOWING ALL CONSTRUCTION DETAILS AND LAYOUTS AS REQUIRED FOR A COMPLETE JOB, ADHERING TO THE MANUFACTURER'S WARRANTIES AND LOCAL AND STATE



#### PARTITION NOTES:

- A. ALL GYPSUM WALL BOARD TO BE MOLD, MILDEW AND MOISTURE RESISTANT. PROVIDE MANUFACTURER'S PROPRIETARY TYPE 'X' GYPSUM BOARD CORE (MEETING THE DESIGNATED FIRE REFERENCE LISTED) WHERE PARTITION IS INDICATED TO BE FIRE RATED ON REFLECTED CEILING PLAN. RATED PARTITION TO MEET CONSTRUCTION REQUIREMENTS OF FIRE RATING REFERENCE
- REFER TO FINISH SCHEDULE FOR LOCATIONS OF APPLIED FINISHES (SUCH AS SOLID SURFACING, WALL PROTECTION, ETC.) THAT MAY AFFECT THE PARTITION SURFACE AND CONSTRUCTION REQUIREMENTS.
- PROVIDE BRACING AT 48" O.C. MAXIMUM ABOVE THE CEILING TO STRUCTURAL FRAMING WHERE PARTITION EXCEEDS THE MAXIMUM UNBRACED HEIGHT. INSURE INTEGRITY OF FIRE AND SOUND RATINGS OF PARTITION IF BRACING PENETRATES PARTITION SURFACE.
- D. COORDINATE BLOCKING REQUIREMENTS WITH FIXTURE MOUNTING HEIGHT AND LOCATION. E. PROVIDE SONOBATT OVER NEW CEILING AND 24" BEYOND ADJACENT WALLS.

**COMPASS 5** 

PARTNERS, LL

Columbia, SC

CANNIZZARO

Columbia, SC

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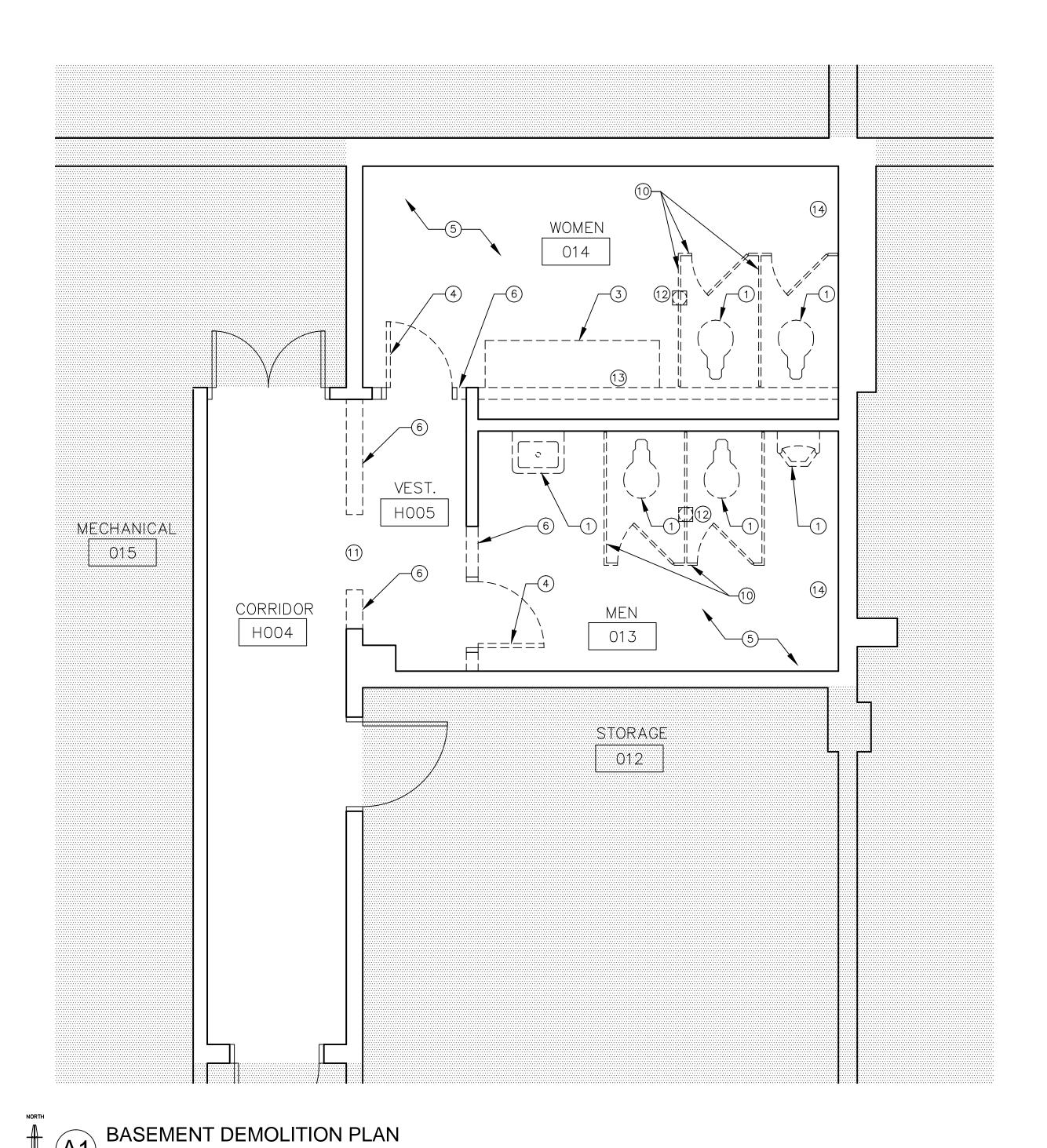
CODE SHEET, NOTES, SYMBOLS, **AND LEGEND** 

09/27/2012

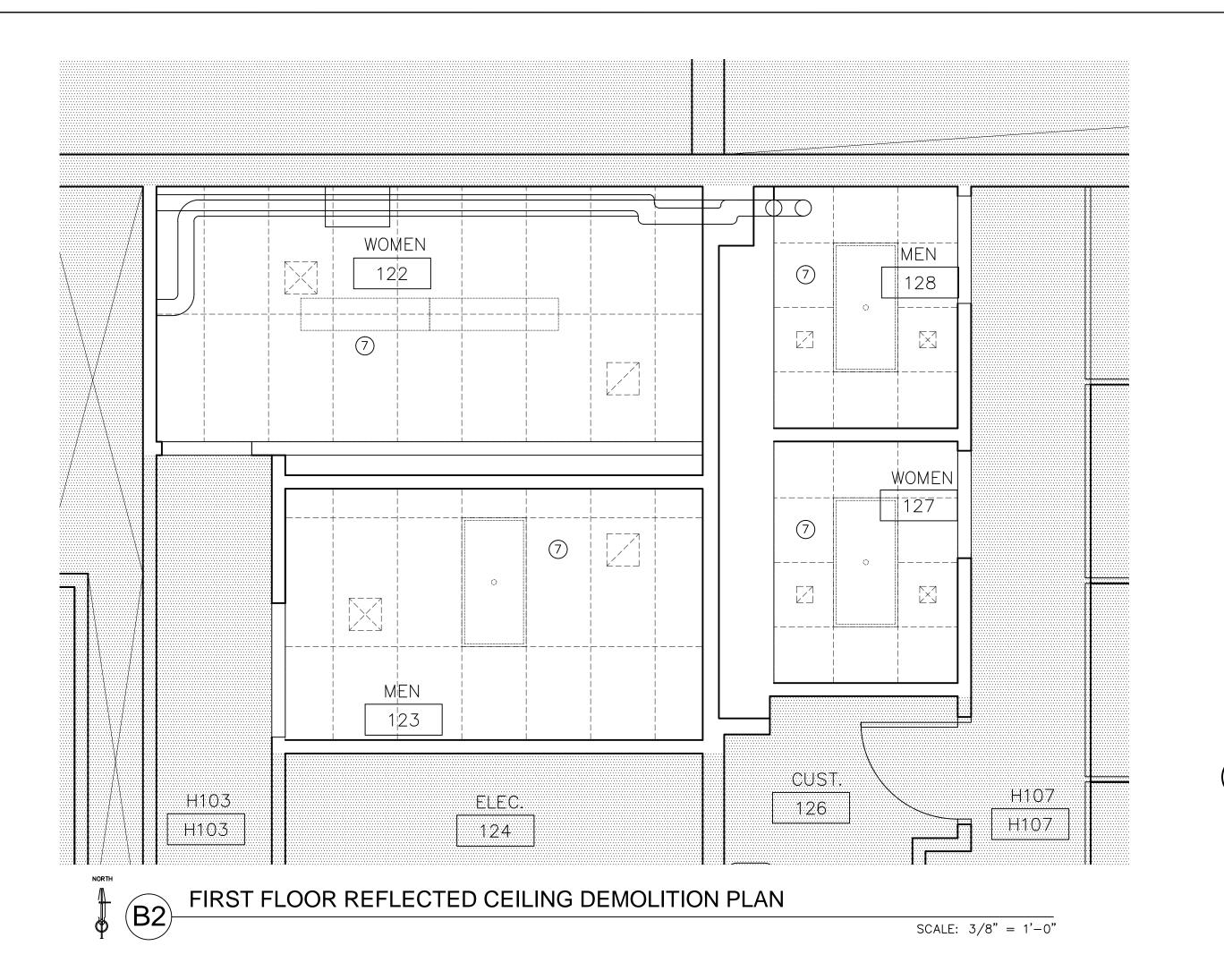
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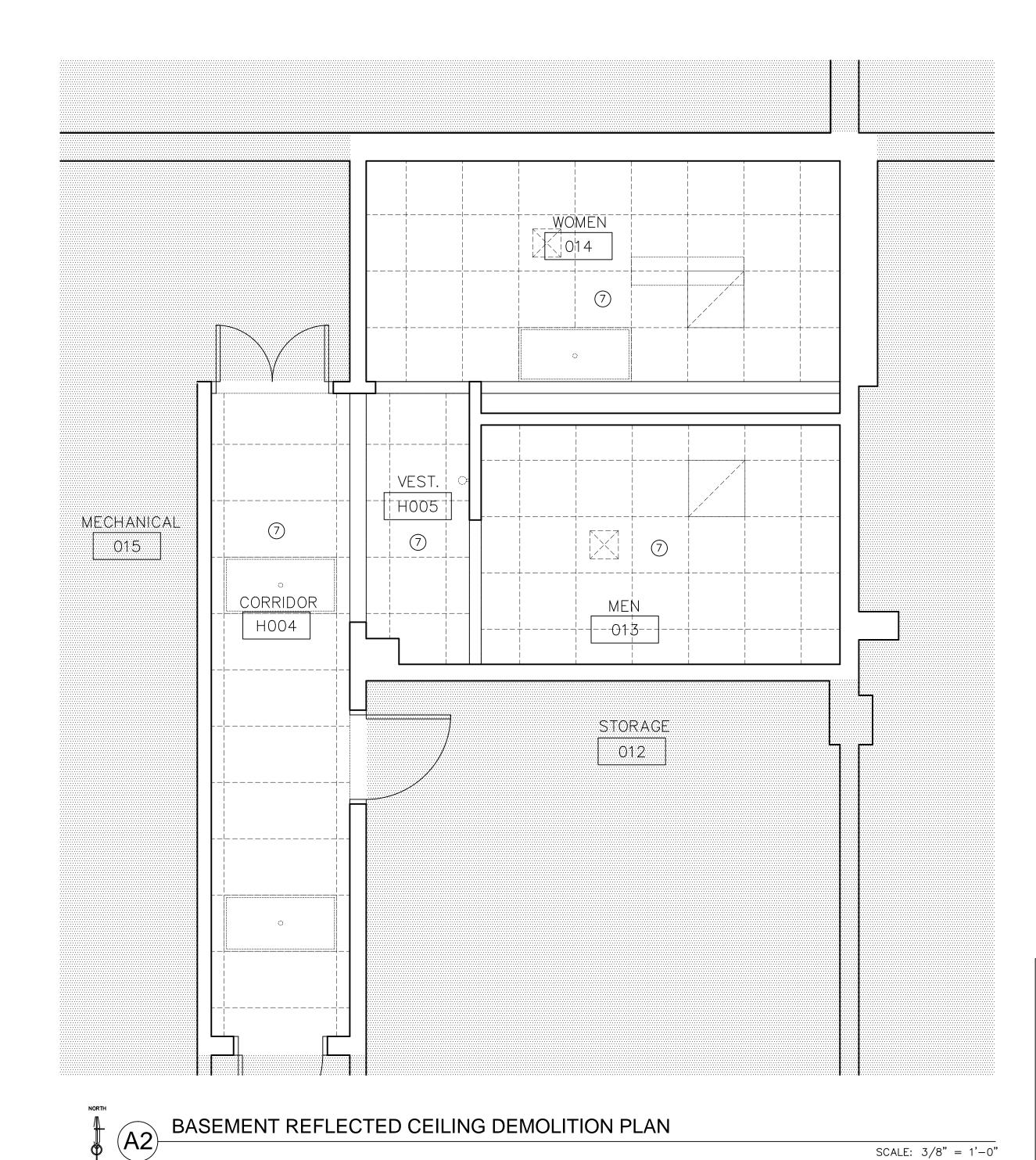
G101

09-27-12



SCALE: 3/8" = 1'-0"





#### **GENERAL NOTES**

- A. BEFORE BEGINNING CONSTRUCTION OR DEMOLITION ACTIVITIES THE CONTRACTOR SHALL TAKE FIELD MEASUREMENTS AND VERIFY EXISTING CONDITIONS, COMPARE RESULTS WITH INFORMATION GIVEN IN THE CONTRACT DOCUMENTS AND REPORT INCONSISTENCIES TO THE OWNER & ARCHITECT AT ONCE.
- B. COORDINATE DEMOLITION WITH HVAC, PLUMBING, AND ELECTRICAL DOCUMENTS.
- C. COORDINATE DEMOLITION WITH NEW WORK AND EQUIPMENT.
- D. EXISTING STRUCTURAL STEEL COLUMNS, BEAMS, FLOORS, AND FRAMING TO REMAIN IN PLACE THROUGHOUT CONSTRUCTION UNLESS OTHERWISE NOTED.
- E. DEMOLITION WORK WHICH REQUIRES ACCESS TO OCCUPIED SPACES OUTSIDE OF THE PROJECT AREA IS TO BE SCHEDULED WITH THE OWNER. REFER TO PROJECT MANUAL FOR WRITTEN NOTICE REQUIREMENTS.
- F. IF THE CONTRACTOR ENCOUNTERS MATERIAL BELIEVED TO BE ASBESTOS OR LEAD, HE SHALL IMMEDIATELY STOP WORK IN THE AFFECTED AREA AND REPORT THE CONDITION TO THE OWNER AND ARCHITECT IN WRITING. WORK IN THE AFFECTED AREA SHALL NOT BE RESUMED EXCEPT BY WRITTEN AGREEMENT BETWEEN THE OWNER AND CONTRACTOR IF THE MATERIAL IN QUESTION IS ASBESTOS OR LEAD AND HAS NOT BEEN DECLARED HARMLESS.
- G. THE CONTRACTOR SHALL INSPECT BOTH SIDES OF EXISTING WALLS, CEILINGS AND FLOOR ASSEMBLIES AND REPAIR/REPLACE AS REQUIRED TO MAINTAIN EXISTING RATINGS. CONTRACTOR SHALL CONFIRM INTEGRITY OF PLUMBING SHAFT AND ASSOCIATED REQUIRED RATINGS.
- H. WHERE EXISTING WALL OR FLOOR SYSTEMS ARE TO REMAIN AND ARE DISTURBED BY DEMOLITION, THEY SHALL BE REPAIRED AS REQUIRED TO MATCH ORIGINAL INTEGRITY AND ADJACENT CONSTRUCTION.
- ALL EXISTING ITEMS SCHEDULED TO REMAIN (ANY DISCIPLINE) WHICH ARE EXPOSED DUE TO DEMOLITION SHALL BE RELOCATED TO REMAIN COVERED BY FINISHED WORK.
- J. THE CONTRACTOR SHALL SCHEDULE ALL WORK INCLUDING ANY INTERRUPTION OF UTILITIES PRIOR TO THE START OF THE WORK. REFER TO PROJECT MANUAL.
- K. CONTRACTOR TO REMOVE ALL ABANDONED OR UNNECESSARY PIPING, DUCT, WIRING AND/OR CONDUIT COMPLETE, EVEN IF REMOVAL EXTENDS BEYOND THE DESIGNATED SPACE AND/OR PROJECT BOUNDARIES. THE LOCATION AND QUANTITY ADDRESSED IN THESE NOTES SHALL BE GENERALLY INFERRED BASED ON THE CONTENT AND EXTENT OF WORK DEPICTED IN THE DRAWINGS AND SPECIFICATIONS. THE INTENT IS TO COVER COMMON, TYPICAL, AND GENERALLY ANTICIPATED ITEMS. EXTRAORDINARY CONDITIONS MAY BE IDENTIFIED DURING DEMOLITION AND WILL BE ADDRESSED AT THAT TIME.
- CONTRACTOR TO COORDINATE ACCESS ROUTES, EQUIPMENT INSTALLATION ROUTES, AND DEBRIS REMOVAL ROUTES WITH OWNER'S REPRESENTATIVE PRIOR TO M. NOT USED.

N. REPLACE FIXTURES AND PARTITIONS PER NEW LAYOUT.

#### **KEYED DEMOLITION NOTES**

- (1) REMOVE EXISTING PLUMBING FIXTURES COMPLETE. SEE PLUMBING DRAWINGS
- (2) REMOVE HANDICAP GRAB BARS AND ACCESSORIES COMPLETE.
- (3) REMOVE EXISTING LAVATORIES AND COUNTERTOP COMPLETE.
- (4) REMOVE EXISTING DOOR AND FRAME. REMOVE PORTION OF WALL NECESSARY TO ACCOMMODATE NEW DOOR.
- (5) REMOVE EXISTING FLOORING INCLUDING BASE, ADHESIVES, AND RELATED FINISHES DOWN TO STRUCTURAL SLAB COMPLETE.
- (6) REMOVE EXISTING WALL TO EXTENTS INDICATED IN THE DRAWINGS.
- (7) REMOVE SUSPENDED EXISTING ACOUSTICAL CEILING GRID SYSTEM COMPLETE INCLUDING HANGARS, SUPPORTS, AND ASSOCIATED HARDWARE. REMOVE LIGHT AND MECHANICAL FIXTURES. SEE ELECTRICAL AND MECHANICAL DRAWINGS.
- (8) REMOVE SHELF COMPLETE.
- (9) EXISTING PIPES TO REMAIN. PROTECT PIPE AND INSULATION THROUGHOUT CONSTRUCTION.
- (10) REMOVE EXISTING PARTITIONS COMPLETE.
- (11) CARPET WHERE EXISTING TO REMAIN. PROTECT EDGES FOR REINSTALLATION. CAREFULLY CUT BACK. REMOVE MARBLE FLOOR THRESHOLD AND TRANSITIONS
- (12) REMOVE EXISTING FLOOR DRAIN. SEE PLUMBING DRAWINGS. (13) LIMITED DEMOLITION THIS WALL AS REQUIRED FOR PLUMBING FIXTURE

#### (14) COORDINATE REMOVAL OF WATER SENSOR WITH UTS STAFF.

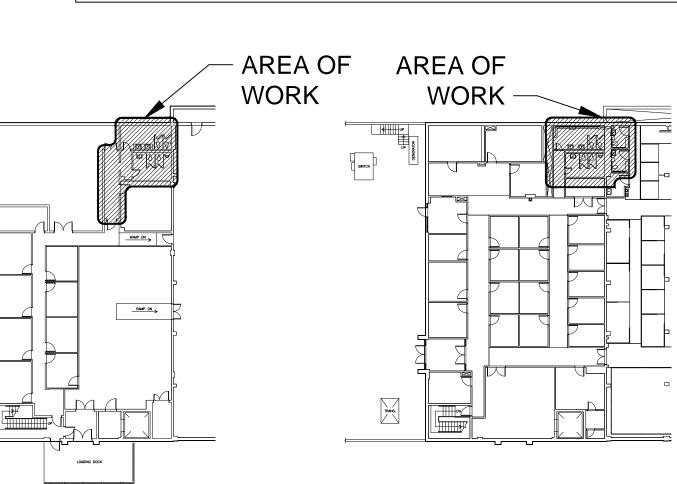
**CEILING LEGEND** 

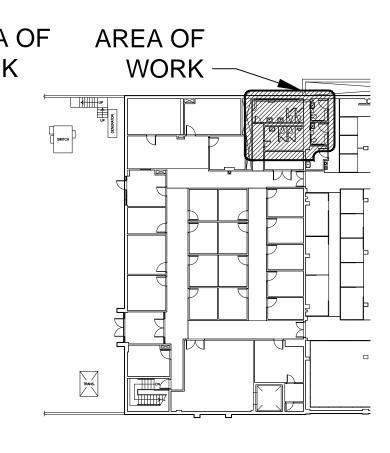
2x2 LAY-IN ACOUSTICAL 2x4 FLUORESCENT LIGHT FIXTURE CEILING PANEL CEILING TO BE DEMOLISHED 1x4 FLUORESCENT LIGHT FIXTURE -----CEILING HEIGHT 2x2 SUPPLY DIFFUSER EXISTING FLOOR DRAIN LOCATION 2×2 RETURN DIFFUSER AREA NOT IN CONTRACT

#### **DEMOLITION COORDINATION & EXTENT** IMPACT FOR OTHER FLOORS AND AREAS

A. THE REQUIRED DEMOLITION SHALL NOT BE LIMITED TO THAT PORTION OF WORK SHOWN ON THE PLANS ALONE. WORK COINCIDENTAL THERETO WHICH IS NECESSARY TO ACCOMPLISH THE INTENT OF THE CONTRACT DOCUMENTS IS ALSO PART OF THE

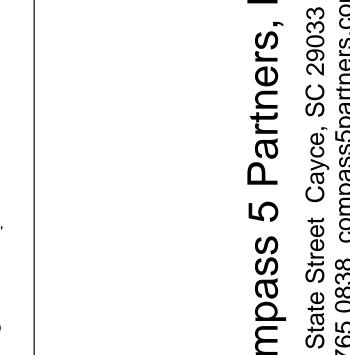
B. ANY DEMOLITION WORK NECESSARY ON FLOOR ABOVE, BELOW, OR ADJACENT SHALL BE SCHEDULED WITH THE OWNER. ANY FINISHES DISTURBED OR DAMAGED AS A RESULT OF DEMOLITION OR INSTALLATION SHALL BE PATCHED OR REPLACED TO MATCH EXISTING FINISHES.

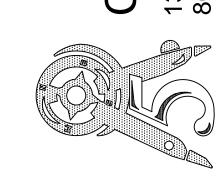




BASEMENT KEY PLAN











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1248ULC

©2012 Compass 5 Partners, LLC **Project Number: REVISIONS** FOR CONSTRUCTION 09-27-12 1 REVISION 10-09-12

> **DEMOLITION PLANS**



MARYELLYN ' CANNIZZARO

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**Project Number: REVISIONS** 

FOR CONSTRUCTION

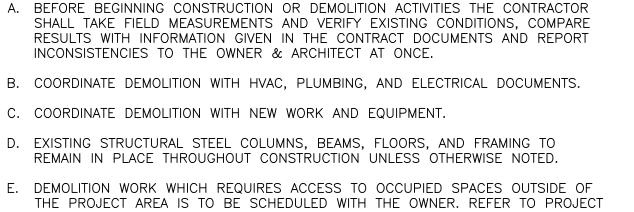
— AREA OF WORK

1 REVISION

RENOVATION **PLANS** 

09/27/2012

Checked:



E. DEMOLITION WORK WHICH REQUIRES ACCESS TO OCCUPIED SPACES OUTSIDE OF THE PROJECT AREA IS TO BE SCHEDULED WITH THE OWNER. REFER TO PROJECT MANUAL FOR WRITTEN NOTICE REQUIREMENTS.

**GENERAL NOTES** 

F. IF THE CONTRACTOR ENCOUNTERS MATERIAL BELIEVED TO BE ASBESTOS OR LEAD, HE SHALL IMMEDIATELY STOP WORK IN THE AFFECTED AREA AND REPORT THE CONDITION TO THE OWNER AND ARCHITECT IN WRITING. WORK IN THE AFFECTED AREA SHALL NOT BE RESUMED EXCEPT BY WRITTEN AGREEMENT BETWEEN THE OWNER AND CONTRACTOR IF THE MATERIAL IN QUESTION IS ASBESTOS OR LEAD AND HAS NOT BEEN DECLARED HARMLESS.

G. THE CONTRACTOR SHALL INSPECT BOTH SIDES OF EXISTING WALLS, CEILINGS AND FLOOR ASSEMBLIES AND REPAIR/REPLACE AS REQUIRED TO MAINTAIN EXISTING RATINGS. CONTRACTOR SHALL CONFIRM INTEGRITY OF PLUMBING SHAFT AND ASSOCIATED REQUIRED RATINGS.

H. WHERE EXISTING WALL OR FLOOR SYSTEMS ARE TO REMAIN AND ARE DISTURBED BY DEMOLITION, THEY SHALL BE REPAIRED AS REQUIRED TO MATCH ORIGINAL INTEGRITY AND ADJACENT CONSTRUCTION.

ALL EXISTING ITEMS SCHEDULED TO REMAIN (ANY DISCIPLINE) WHICH ARE EXPOSED DUE TO DEMOLITION SHALL BE RELOCATED TO REMAIN COVERED BY FINISHED WORK.

J. THE CONTRACTOR SHALL SCHEDULE ALL WORK INCLUDING ANY INTERRUPTION OF UTILITIES PRIOR TO THE START OF THE WORK. REFER TO PROJECT MANUAL.

K. CONTRACTOR TO REMOVE ALL ABANDONED OR UNNECESSARY PIPING, DUCT, WIRING AND/OR CONDUIT COMPLETE, EVEN IF REMOVAL EXTENDS BEYOND THE DESIGNATED SPACE AND/OR PROJECT BOUNDARIES. THE LOCATION AND QUANTITY ADDRESSED IN THESE NOTES SHALL BE GENERALLY INFERRED BASED ON THE CONTENT AND EXTENT OF WORK DEPICTED IN THE DRAWINGS AND SPECIFICATIONS. THE INTENT IS TO COVER COMMON, TYPICAL, AND GENERALLY ANTICIPATED ITEMS. EXTRAORDINARY CONDITIONS MAY BE IDENTIFIED DURING DEMOLITION AND WILL BE ADDRESSED AT THAT TIME.

CONTRACTOR TO COORDINATE ACCESS ROUTES, EQUIPMENT INSTALLATION ROUTES, AND DEBRIS REMOVAL ROUTES WITH OWNER'S REPRESENTATIVE PRIOR TO

N. REPLACE FIXTURES AND PARTITIONS PER NEW LAYOUT.

#### **KEYED RENOVATION NOTES**

O. CONFIRM ELECTRICAL LOCATIONS IN FIELD WITH ARCHITECT DURING FRAMING.

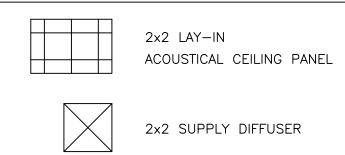
(1) PREP, PATCH, REPAIR AND SKIM WALL WHERE EXISTING DRYWALL TO REMAIN. 2 PROVIDE BLOCKING FOR ALL WALL-MOUNTED ITEMS. SEE PLUMBING DRAWINGS FOR CARRIERS.

3) SEE FINISH NOTES ON SHEET A400 FOR TOILET PARTITIONS.

(4) REFER TO ELECTRICAL DRAWINGS FOR WALL SCONCE MOUNTING HEIGHTS. 5 PROVIDE ACCESS PANEL AT LOW PRESSURE STEAM VALVE AS SHOWN ON F1/A300.

6 RELOCATE WATER SENSOR TO THIS LOCATION. COORDINATE WITH UTS. REFER TO A1 AND A2/A400 FOR FLOOR TRANSITION DETAILS.

#### **CEILING LEGEND**



2x2 RETURN DIFFUSER

EXIT SIGN

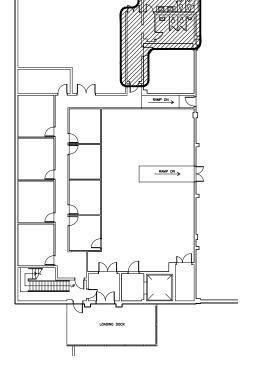
WALL SCONCE LIGHT FIXTURE

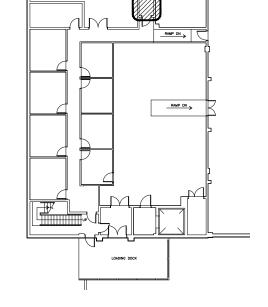
DOWNLIGHT LIGHT FIXTURE #'-#" CEILING HEIGHT

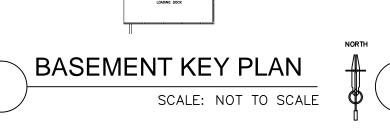
EXISTING FLOOR DRAIN LOCATION

AREA NOT IN CONTRACT

– AREA OF WORK



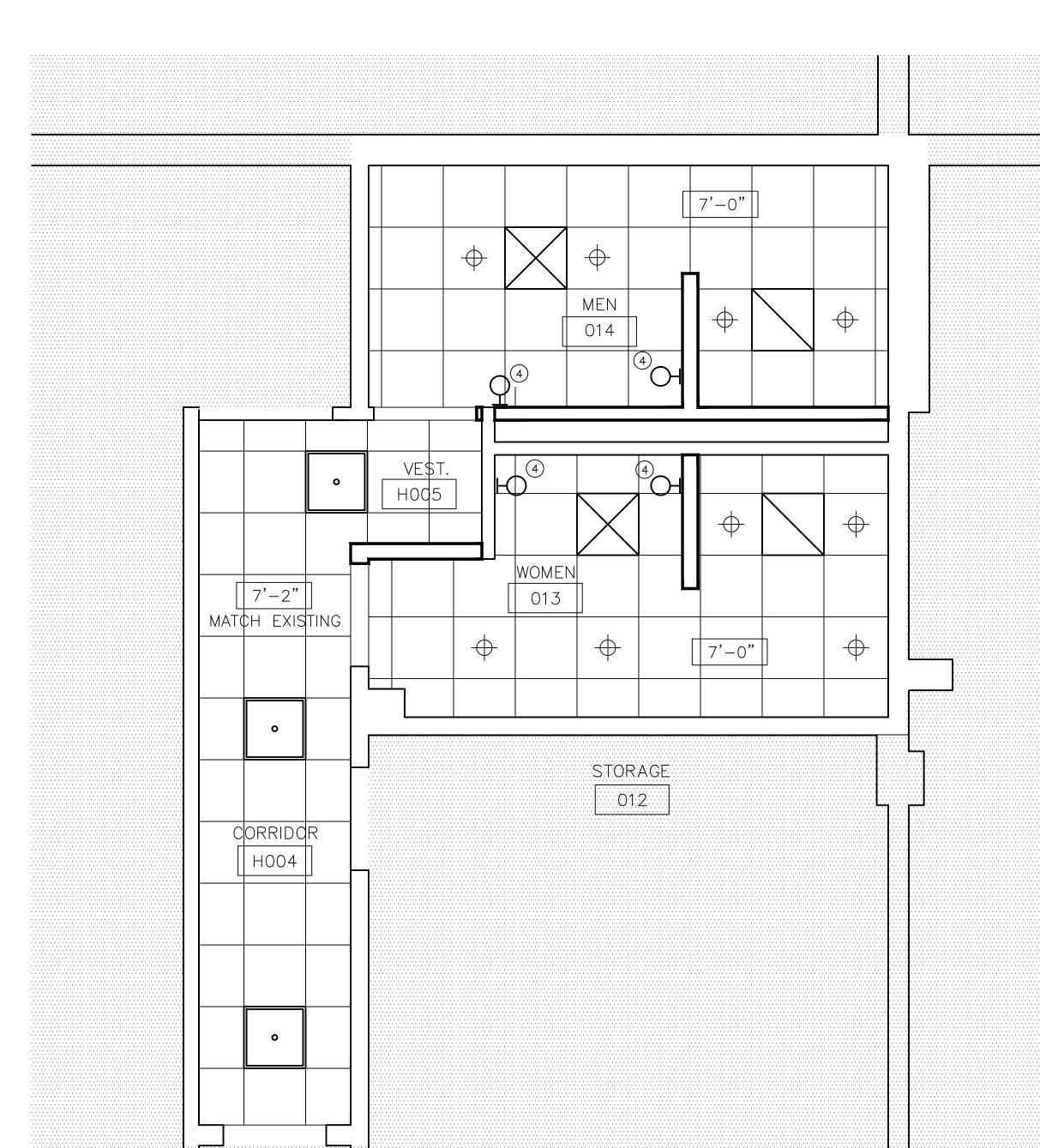




FIRST FLOOR KEY PLAN SCALE: NOT TO SCALE

BASEMENT RENOVATION PLAN SCALE: 3/8" = 1'-0"

WOMEN 122  $\oplus$ MEN FIRST FLOOR REFLECTED CEILING RENOVATION PLAN SCALE: 3/8" = 1'-0"



BASEMENT REFLECTED CEILING RENOVATION PLAN

(128)

SCALE: 3/8" = 1'-0"

128

3'-1"

(3)

014

013

STORAGE

012

122

12'-11½"

H005

122

FIRST FLOOR RENOVATION PLAN

CORRIDOR

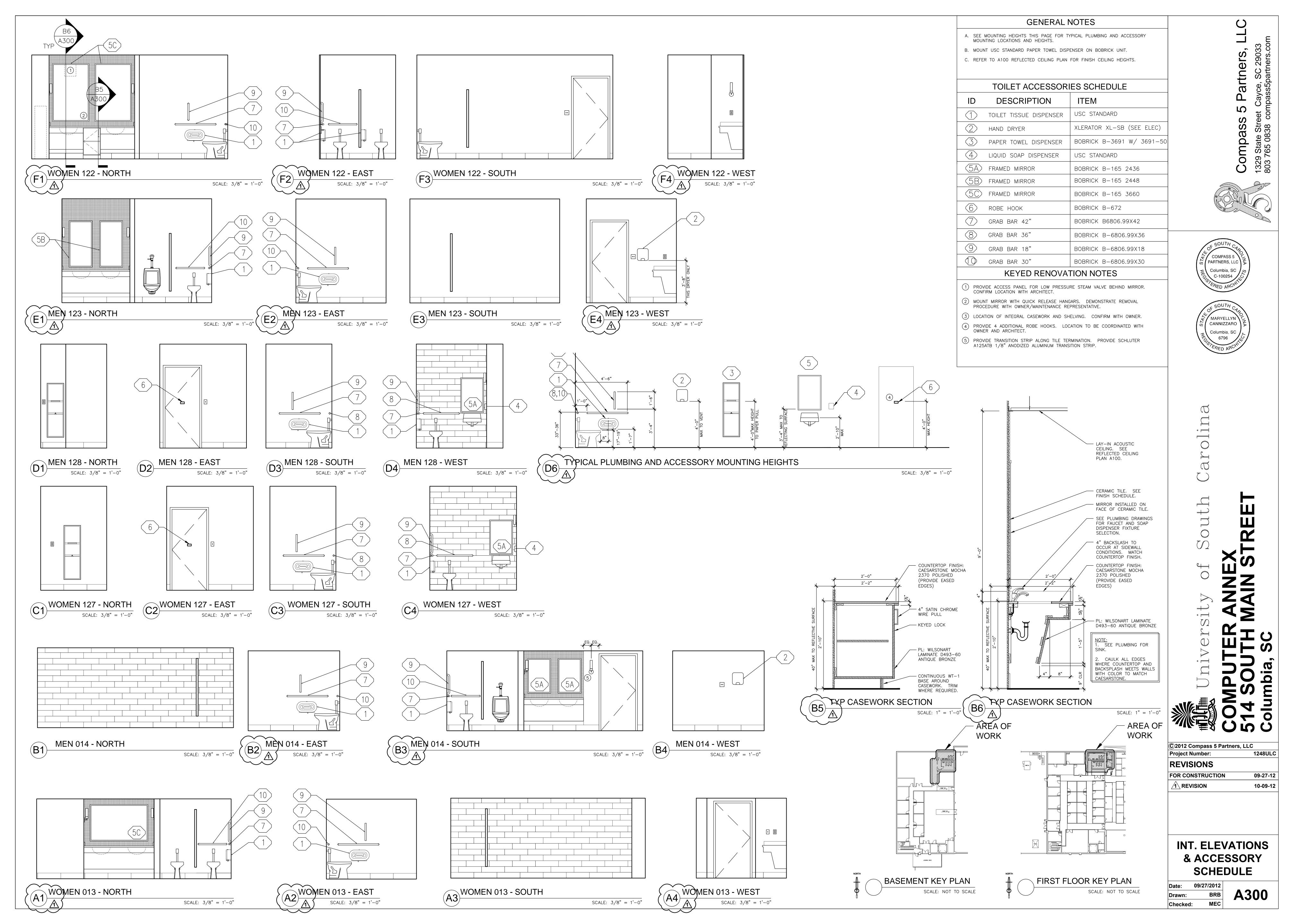
H004

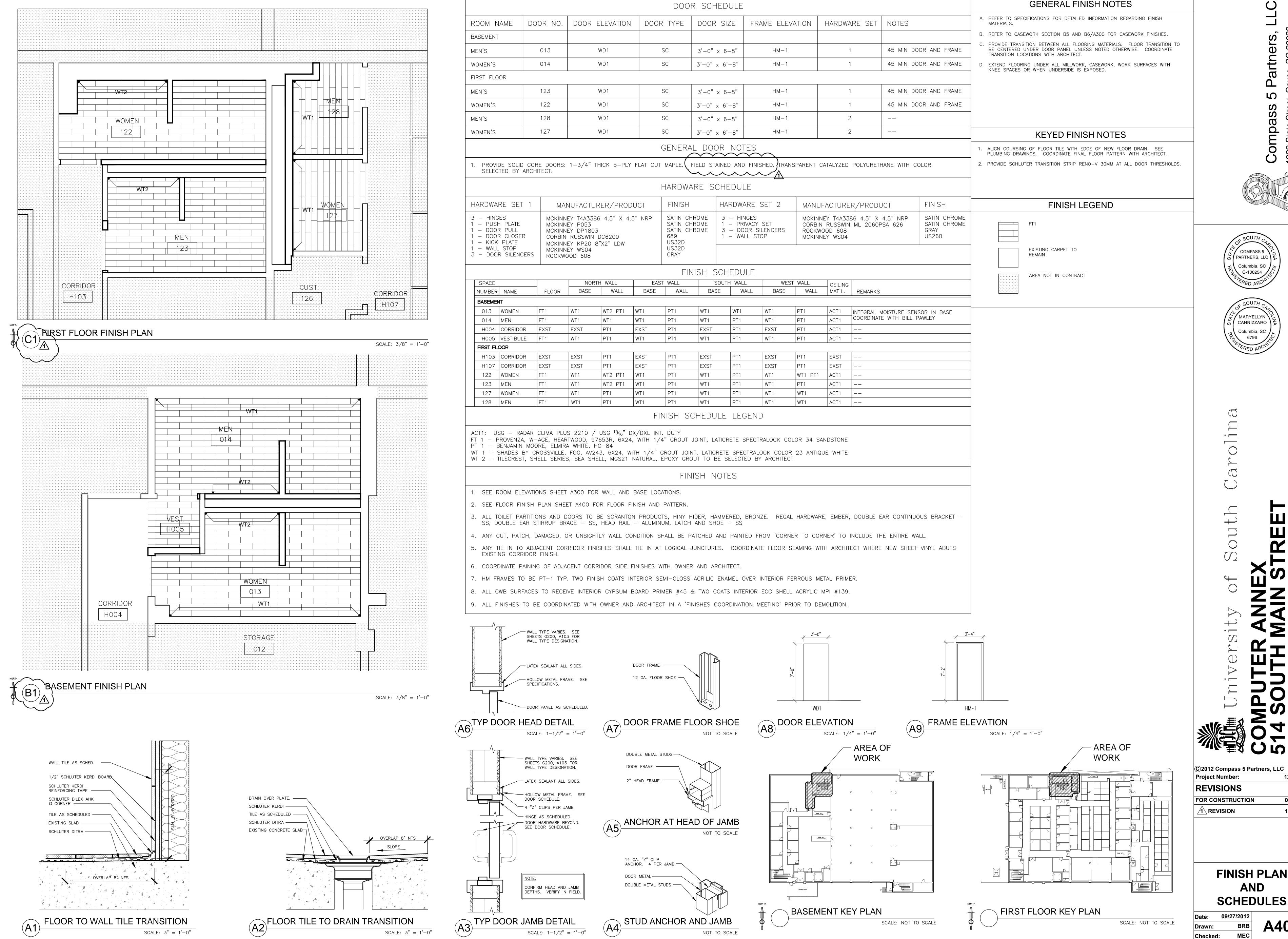
SCALE: 3/8" = 1'-0"

A100

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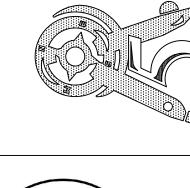
SCALE: 3'' = 1'-0''

SCALE: 3'' = 1'-0''

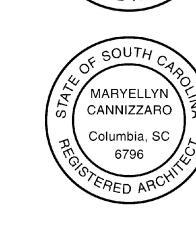
SCALE: 1-1/2" = 1'-0"

NOT TO SCALE

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**SCHEDULES** 

Checked:

2 REMOVE EXISTING WALL MOUNTED WATER CLOSET, FLUSH VALVE, AND CHAIR CARRIER. CAP UNUSED LINES AS REQUIRED.

REMOVE EXISTING WALL MOUNTED LAVATORY, FAUCET, SUPPLIES, AND P-TRAP. CAP UNUSED LINES AS REQUIRED.

REMOVE EXISTING COUNTERTOP LAVATORY, FAUCET, SUPPLIES, AND P-TRAP. CAP UNUSED LINES AS REQUIRED.

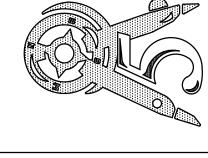
(5) REMOVE EXISTING URINAL, FLUSH VALVE, AND CHAIR CARRIER. CAP UNUSED LINES AS REQUIRED.

6 REMOVE EXISTING FLOOR DRAIN. NEW FLOOR DRAIN TO BE INSTALLED IN EXISTING LOCATION.

 $\overline{7}$  REMOVE EXISTING HOSE BIBB OR CAPPED SUPPLY LINE. CAP WATER LINE IN WALL.

 $raket{8}$  REMOVE EXISTING FLOOR CLEANOUT AND REPLACE WITH NEW. SEE RENOVATION PLANS.

# Compass



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Project Number: 12

09-27-12

FOR BIDDING

**DEMOLITION FLOOR PLANS** 

Swygert & Associates CONSULTING ENGINEERS DBA Swygert & Assoc., Ltd.
Post Office Box 11686
Columbia, S.C. 29211

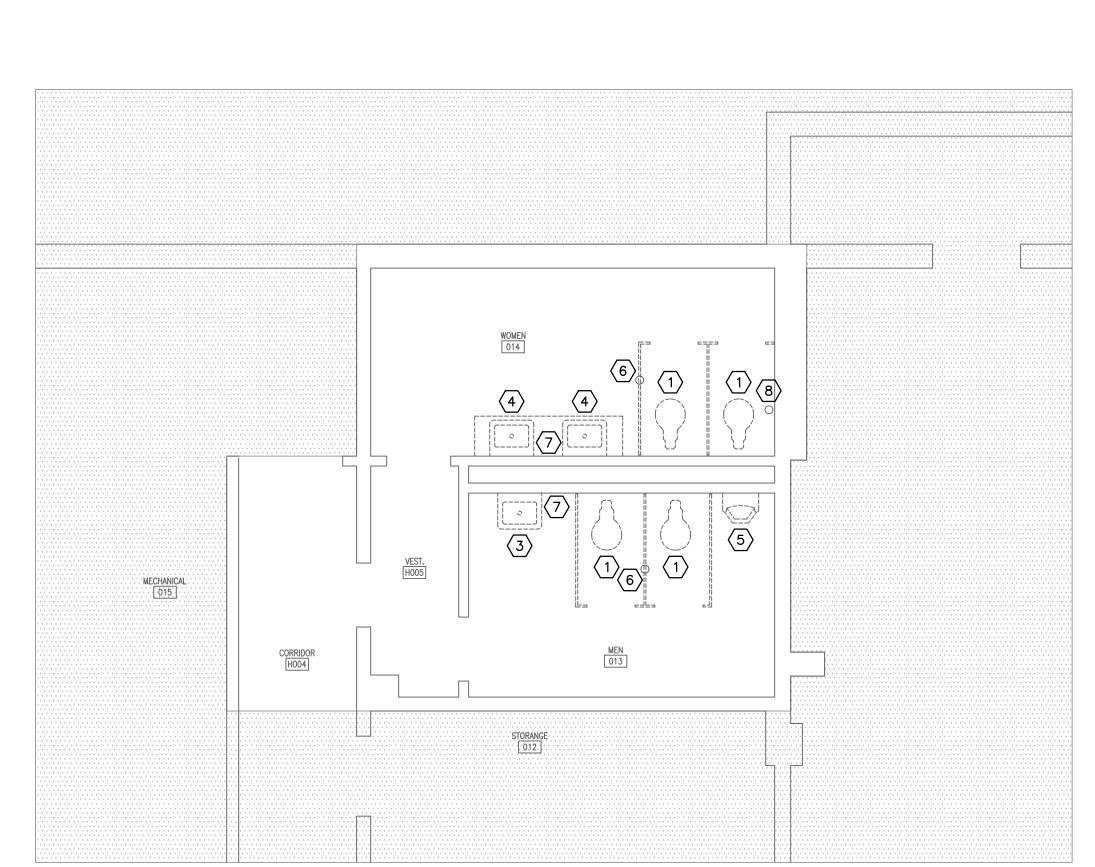
Telephone: (803) 791-9300
Facsimile: (803) 791-0830
mail@swygert-associates.com

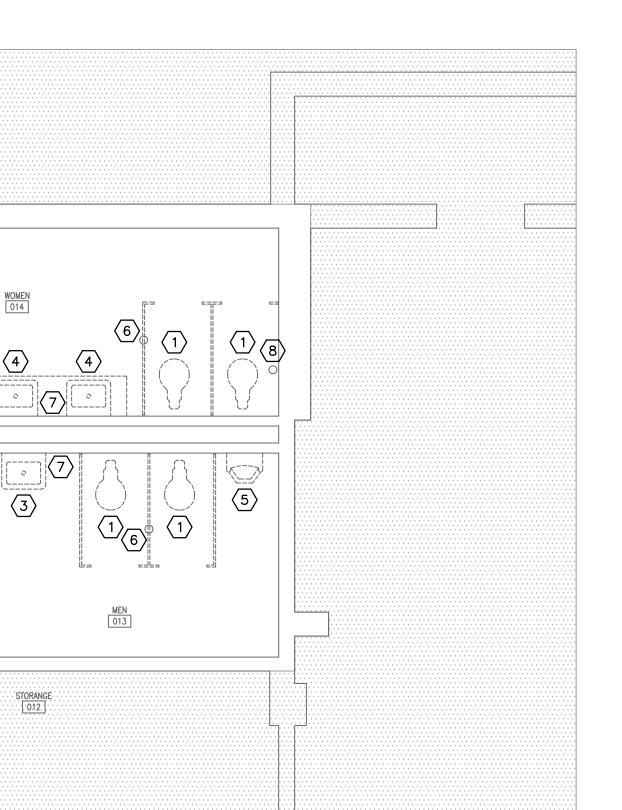
09-27-12 **PD100** DEM Checked:

1 BASEMENT RESTROOMS - DEMOLITION

PD100 SCALE: 1/4" = 1'-0" FIRST FLOOR RESTROOMS — DEMOLITION

SCALE: 1/4" = 1'-0"





SUPPLY PIPING
BASEMENT RESTROOMS - RENOVATION

SCALE: 1/4" = 1'-0"

NOTE: ALL VENT PIPING SHALL BE 2" IN SIZE UNLESS

OTHERWISE INDICATED.

P-4 ADA

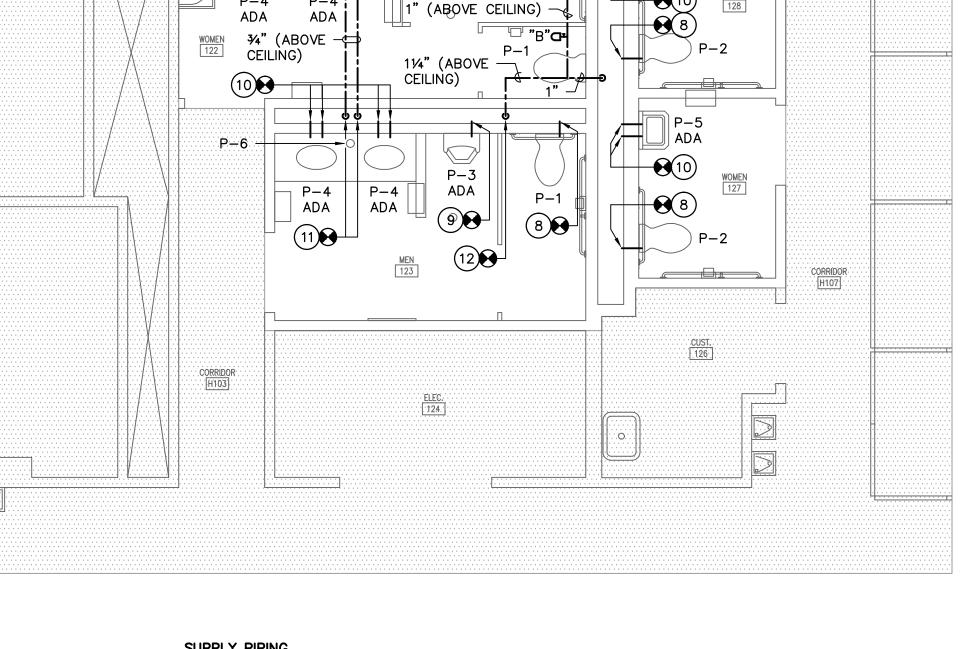
P-4 ADA

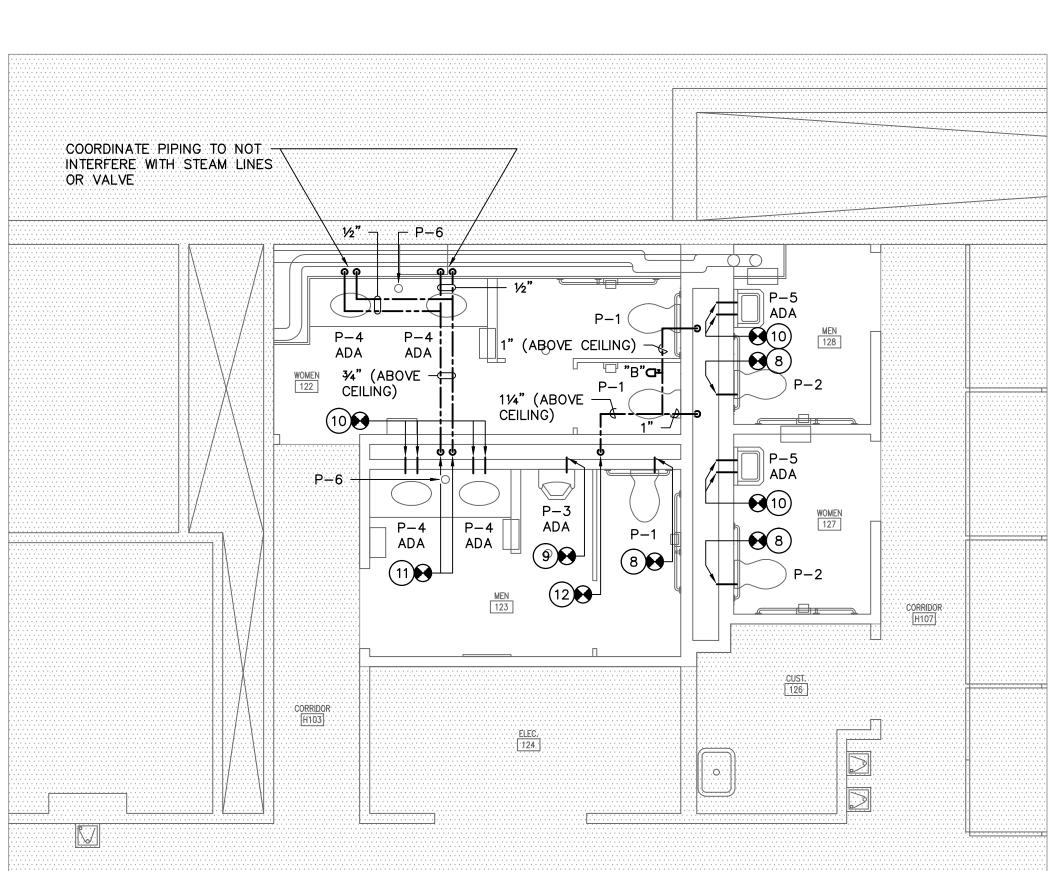
P-4 ADA

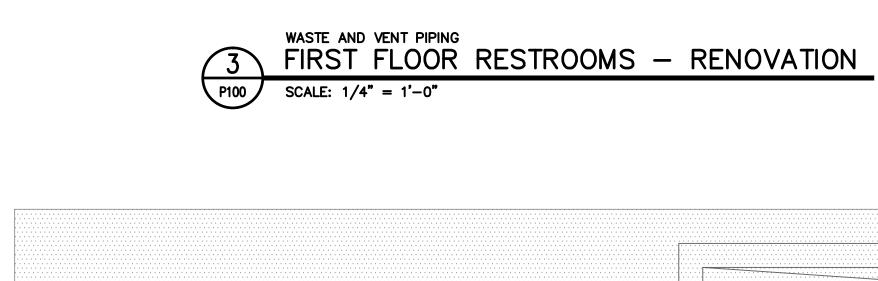
P-4 ADA

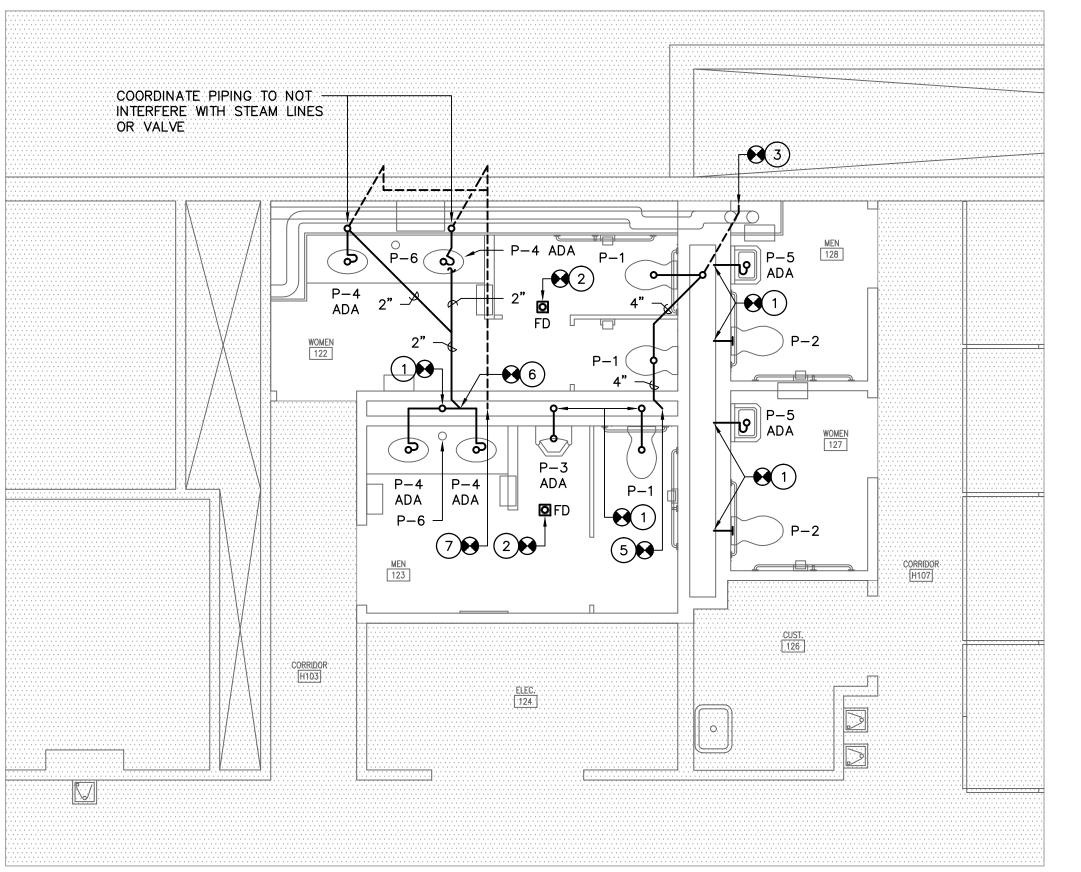
WASTE AND VENT PIPING
BASEMENT RESTROOMS — RENOVATION

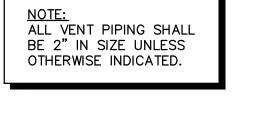


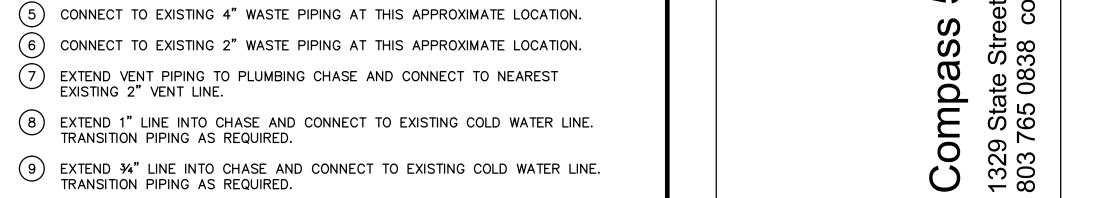












NOTES TO SHEET

2 CONNECT TO EXISTING WASTE PIPING AT THIS APPROXIMATE LOCATION. EXISTING P-TRAP TO BE REUSED. TRANSITION PIPING AS REQUIRED.

3 EXTEND NEW 2" VENT PIPING UP IN CHASE AND CONNECT TO EXISTING 2" VENT

4 INSTALL NEW ZURN MODEL ZN-1400-TX FLOOR CLEANOUT AND CONNECT TO EXISTING PIPING.

(10) EXTEND 1/2" LINE INTO CHASE AND CONNECT TO EXISTING COLD WATER/HOT WATER PIPING. TRANSITION PIPING AS REQUIRED.

EXTEND DOWN INTO EXISTING CHASE AND CONNECT TO NEAREST EXISTING 3/4" DOMESTIC COLD WATER AND HOT WATER LINES.

EXTEND DOWN INTO EXISTING CHASE AND CONNECT TO NEAREST EXISTING 11/2" DOMESTIC COLD WATER LINE.

1) CONNECT TO EXISTING WASTE/VENT PIPING AT THIS APPROXIMATE LOCATION. TRANSITION PIPING AS REQUIRED.

09-27-12

DEM

RENOVATION **FLOOR PLANS** 

09-27-12

P100

Swygert & Associates

Checked:

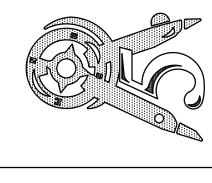
CONSULTING ENGINEERS

DBA Swygert & Assoc., Ltd. Telephone: (803) 791-9300 Facsimile: (803) 791-0830 Columbia, S.C. 29211 mail@swygert-associates.com

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artners,

ompass



GENERAL NOTES	
BE PERFORMED ACCORDING TO ALL LOCAL, STATE, NATIONAL 2006 INTERNATIONAL PLUMBING CODE.	

- . ALL WORK SHALL B CODES, AND THE 20 2. DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS, FIXTURE LOCATIONS, ETC.
- 3. EXCEPT WHERE PIPE SPACE IS PROVIDED OR UNLESS NOTED OTHERWISE, ALL SUPPLY, WASTE AND VENT RISERS SHALL BE RUN IN WALLS AND PARTITIONS.
- 4. COORDINATE CLOSELY WITH ALL WORK DONE UNDER OTHER DIVISIONS OF THE SPECIFICATIONS TO AVOID INTERFERENCE AND CONFLICT.
- 5. EXPOSED WASTE AND WATER PIPING UNDER LAVATORIES MARKED "ADA" SHALL BE INSULATED WITH HANDI LAV-GUARD KIT MODEL NUMBER 102W AS MANUFACTURED BY TRUEBRO, INC., OR APPROVED EQUAL.
- 6. ALL PIPING INSULATION SHALL BE RUN CONTINUOUSLY.
- 7. SUBMIT ALL EQUIPMENT AND PRODUCTS PROPOSED TO BE USED FOR THIS PROJECT PRIOR TO ORDERING. SUBMIT SIX COPIES OF DATA SHEETS TO THE ENGINEER, BOUND IN A SINGLE VOLUME FOR APPROVAL.
- 8. EXISTING INFORMATION TAKEN FROM OWNERS RECORD SET OF DRAWINGS DATED JULY 1972.
- 9. SEE ARCHITECTURAL FOR WALL PATCHING BY GENERAL CONTRACTOR. THIS CONTRACTOR SHALL ACCESS CHASE FROM THE LOCATIONS INDICATED ONLY.

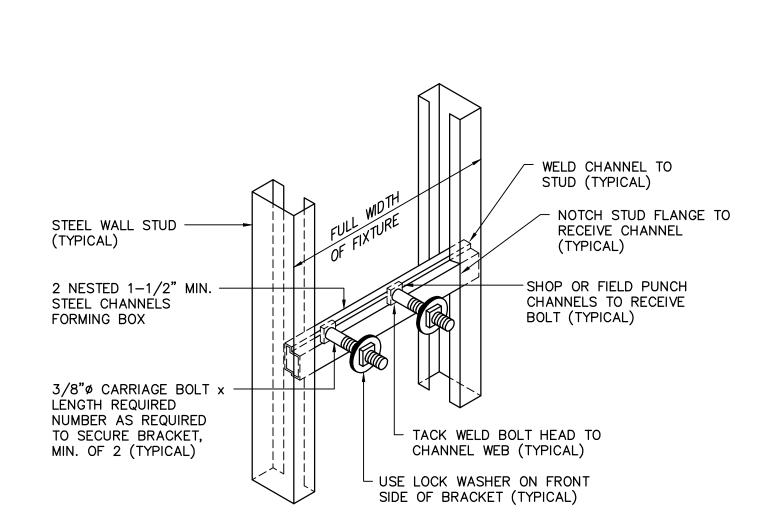
#### **SPECIFICATIONS**

#### WASTE AND VENT PIPING:

ALL WASTE AND VENT PIPING SHALL BE STANDARD WEIGHT HUBLESS CAST IRON WITH HEAVY DUTY CLAMPS BY HUSKY OR MISSION. SUPPLY PIPING:

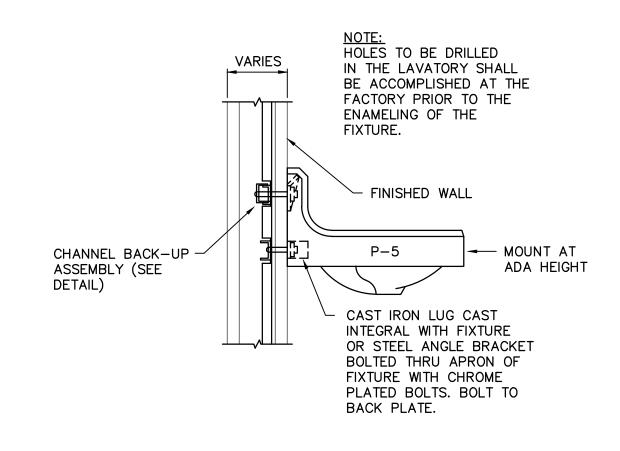
ALL SUPPLY PIPING SHALL BE TYPE L COPPER WITH LEAD FREE JOINTS. INSULATE ALL SUPPLY PIPING WITH 1" THICK FIBERGLASS INSULATION WITH ALL SERVICE JACKET.

	LEGEND				
SYMBOL	BOL DESCRIPTION				
~	SANITARY WASTE LINE				
۶	SANITARY VENT LINE				
~— <i>-</i> —~	DOMESTIC COLD WATER LINE				
~~~	DOMESTIC HOT WATER LINE				
ک <sup>۲</sup> ۳۸" ک	SHOCK ARRESTOR (P.D.I. RATING OF "A")				
<b>ر ر</b>	PIPE TURNS TO, AWAY				
ADA	FIXTURE FOR USE ACCORDING TO THE AMERICANS WITH DISABILITIES ACT				
•	CONNECTION POINT OF NEW TO EXISTING				



CHANNEL BACK-UP ASSEMBLY

NO SCALE



PLUMBING FIXTURE SCHEDULE

SIZE

- - -

- - -

17"x14"

- - -

MFGRS. NO.

K-4368

K-4386

K-5016-ET

K-2210

K-2867

B-828

ZN-415-S

NAME

DEXTER

CAXTON

HUDSON

- - -

HIGHCLIFF

KOHLER ANGLESEY

BOBRICK SUREFLO

KOHLER

KOHLER

DELTA

KOHLER

ZURN

FIXTURE

WATER CLOSET

URINAL

LAVATORY

LAVATORY

P-6 AUTOMATIC SOAP

DISPENSER

FLOOR DRAIN

P-2 WATER CLOSET

P-1

P-3

P-4

MIN. SUPPLY

CW HW

REMARKS

FLUSH VALVE, BENEKE MODEL

527 SEAT, AND BOLT CAPS.

FLUSH VALVE, BENEKE MODEL

527 SEAT, AND BOLT CAPS.

FLUSH VALVE, AND CHAIR

McGUIRE 155A GRID DRAIN, McGUIRE H165 3/8" CAST

BRASS SUPPLIES WITH STOPS, McGUIRE 8872 1-1/4" P-TRAP,

LGHGMHDF FAUCET, McGUIRE

MOUNT PER ADA REQUIREMENTS.

H165 3/8" CAST BRASS

SUPPLIÉS WITH STOPS, AND McGUIRE 8872 1-1/4" P-TRAP.

AND 0.5 GPM FLOW RESTRICTOR.

DELTA MODEL 22C601 FAUCET,

1" | - - | WITH SLOAN MODEL 111-XL

3/4" - - WITH SLOAN MODEL 186-1-XL

3/8" 3/8" UNDERCOUNTER MOUNTED WITH

COUNTERTOP.

- - □ - - □ WITH 5"x5" NICKEL BRONZE

HIGH ON WALL BELOW

STRAINER, P-TRAP, TRAP

WITH TILE PATTERN AND LEVEL WITH SURROUNDING TILE.

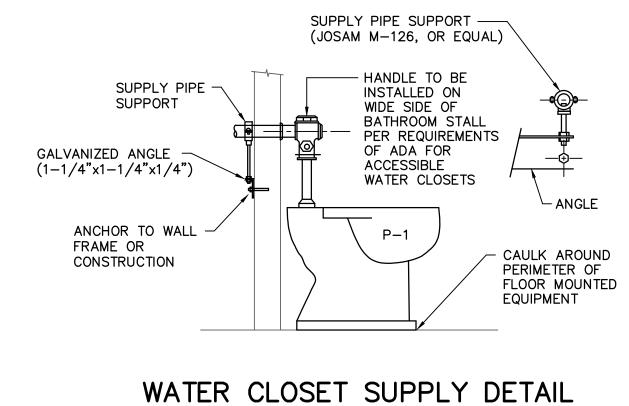
GUARD BY PROSET, OR APPROVED EQUAL. AND JAY R SMITH FIGURE 7080 BACKWATER VALVE. SET DRAIN SQUARE

CARRIER.

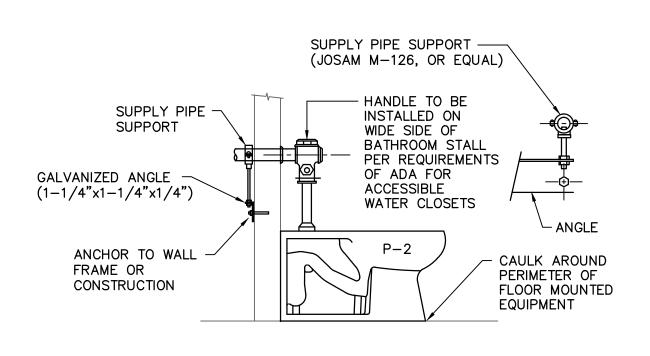
20"x18" | 3/8" | 3/8" | WITH DELTA MODEL 2529LF-

LAVATORY MOUNTING DETAIL

NO SCALE

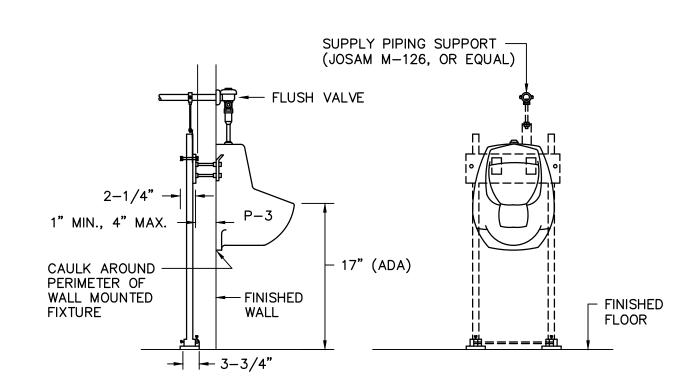


NO SCALE



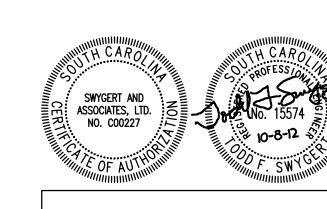
WATER CLOSET SUPPLY DETAIL

NO SCALE



TYPICAL URINAL SUPPORT

NO SCALE



Swygert & Associates

CONSULTING ENGINEERS DBA Swygert & Assoc., Ltd. Telephone: (803) 791-9300 Post Office Box 11686 Facsimile: (803) 791-0830 Columbia, S.C. 29211 mail@swygert-associates.com **DETAILS, NOTES,** SCHEDULE, AND **LEGEND** 

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**Project Number:** 

FOR BIDDING

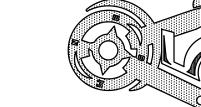
REVISIONS

09-27-12 DEM Checked: TFS

**P200** 

1248ULC

09-27-12



**SPECIFICATIONS** . ALL WORK SHALL BE IN ACCORDANCE WITH THE 2006 INTERNATIONAL MECHANICAL CODE, SMACNA, AND ASHRAE STANDARDS. ALL LOCAL CODES OR REQUIREMENTS

STILL APPLY. 2. ALL RECTANGULAR DUCT SHALL BE TYPE G-60 GALVANIZED SHEET METAL, SEALED WITH LOW PRESSURE DUCT MASTIC. ROUND DUCTS SHALL BE GALVANIZED SHEET METAL SEALED WITH LOW PRESSURE DUCT MASTIC. LOCKING QUADRANT BALANCING DAMPERS SHALL BE INSTALLED IN EACH BRANCH TAKEOFF AT THE MAIN TRUNK DUCT. FLEXIBLE DUCT SHALL NOT EXCEED 8' IN LENGTH AND SHALL BE EQUAL TO FLEXMASTER TYPE 6M.

GENERAL NOTES

3. DO NOT SCALE DRAWINGS. THIS CONTRACTOR SHALL VERIFY ALL EXISTING ITEMS

6. REMOVAL AND REPLACEMENT OF CEILING, AS REQUIRED FOR INSTALLATION OF NEW

7. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ANY NECESSARY DISMANTLING OF EQUIPMENT TO BE REMOVED. ITEMS REMOVED UNDER THIS CONTRACT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF

4. ALL PIPING AND DUCTWORK LOCATIONS SHALL BE COORDINATED WITH WORK UNDER OTHER DIVISIONS OF THE SPECIFICATIONS TO AVOID INTERFERENCE.

5. THIS CONTRACTOR SHALL PROVIDE ALL ITEMS OF MISCELLANEOUS STEEL AS

REQUIRED FOR INSTALLATION OF ALL MECHANICAL ITEMS.

WORK, SHALL BE DONE BY GENERAL CONTRACTOR.

INSTALLATION AND REFLECT THIS IN HIS BIDDING.

AND LOCATIONS IN THE FIELD.

3. SUPPLY DUCTS SHALL BE INSULATED WITH 2" THICK, 3/4# DENSITY DUCT WRAP. DUCT WRAP SHALL BE SEALED WITH FIBERGLASS REINFORCING MESH, STAPLES AND MASTIC AT THE JOINTS.

4. SUBMIT ALL EQUIPMENT AND PRODUCTS PROPOSED TO BE USED FOR THIS PROJECT PRIOR TO ORDERING. SUBMIT SIX COPIES OF DATA SHEETS TO THE ENGINEER, BOUND IN A SINGLE VOLUME FOR APPROVAL.

5. SUBMIT A CERTIFIED ABB OR NEBB TEST AND BALANCE REPORT AT PROJECT COMPLETION PRIOR TO FINAL ACCEPTANCE. BALANCE FAN AIR VOLUMES TO WITHIN 5% OF DESIGN AND DIFFUSER AIR VOLUMES TO WITHIN 10% OF DESIGN.

6. ALL EQUIPMENT, PRODUCTS AND WORK SHALL BE GUARANTEED TO BE FREE OF DEFECTS IN MANUFACTURE AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION. ALL REPAIRS WILL BE MADE AT NO COST TO THE OWNER.

	LEGEND
SYMBOL	DESCRIPTION
<b>(A)</b> 100	TYPE "A" DIFFUSER, 100 CFM
$\boxtimes$	RECTANGULAR SUPPLY DUCTWORK
	RETURN, EXHAUST, FRESH AIR DUCTWORK
48x24	48"x24" RECTANGULAR DUCT
•	CONNECTION POINT OF NEW TO EXISTING

▕▕▀▀▀▀▀▝▘▍ نـــــن \_\_\_\_ 72 

DESCRIPTION

PERFORATED SUPPLY

PERFORATED SUPPLY

PERFORATED RETURN

. PROVIDE WITH STANDARD WHITE FINISH.

2. PROVIDE ALUMINUM OR ALUMINIZED STEEL CONSTRUCTION.

MANUFACTURER

PRICE

PRICE

PRICE

DEMOLITION NOTES

 $\langle 1 \rangle$  REMOVE EXISTING SUPPLY GRILLE AND RUNOUT DUCT BACK TO MAIN TRUNK.

 $\overline{2}$  REMOVE EXISTING EXHAUST GRILLE AND RUNOUT DUCT BACK TO MAIN TRUNK.

AIR DISTRIBUTION SCHEDULE

MODEL

APDC

APDC

APDDR

FRAME

LAY-IN

SURFACE

LAY-IN

CFM

0-125

0-125

0-150

NECK SIZE FACE SIZE MAX NC

24"x24"

12"x12"

22"x22" 24"x24"

30

30

6**"**ø

6**"**ø

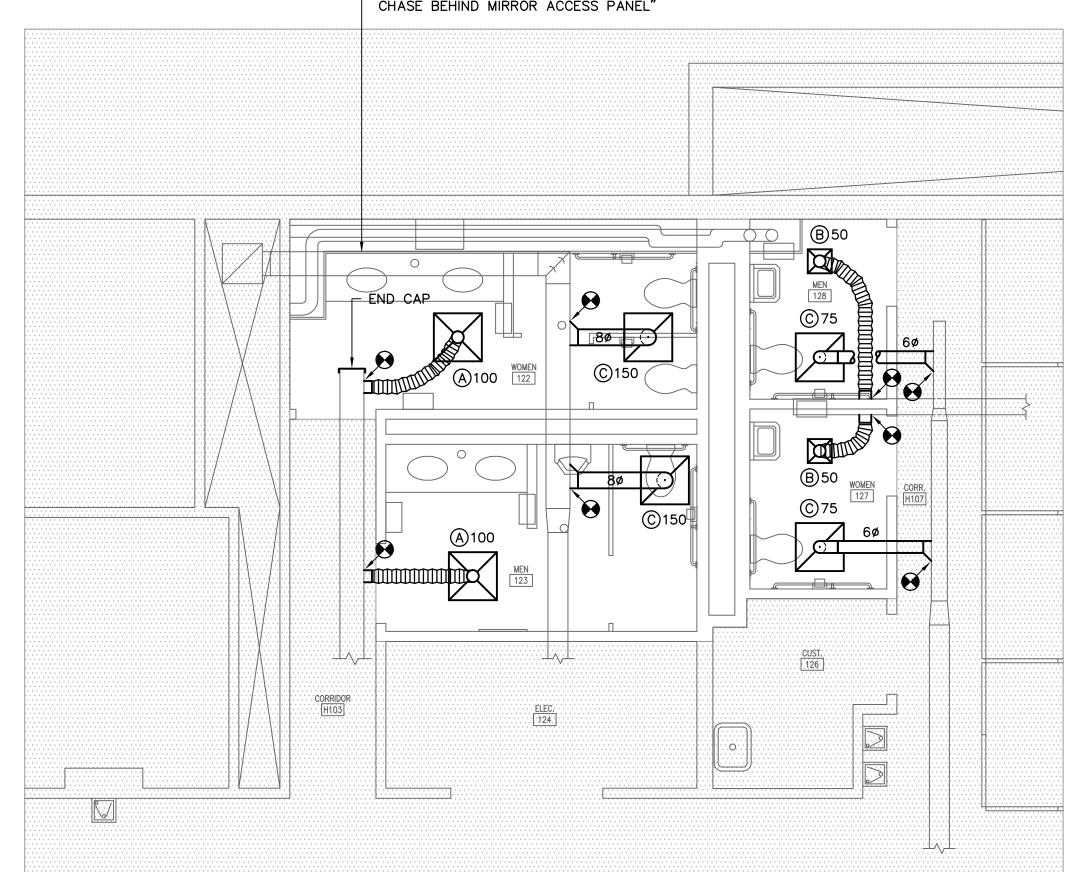
REMARKS

1, 2

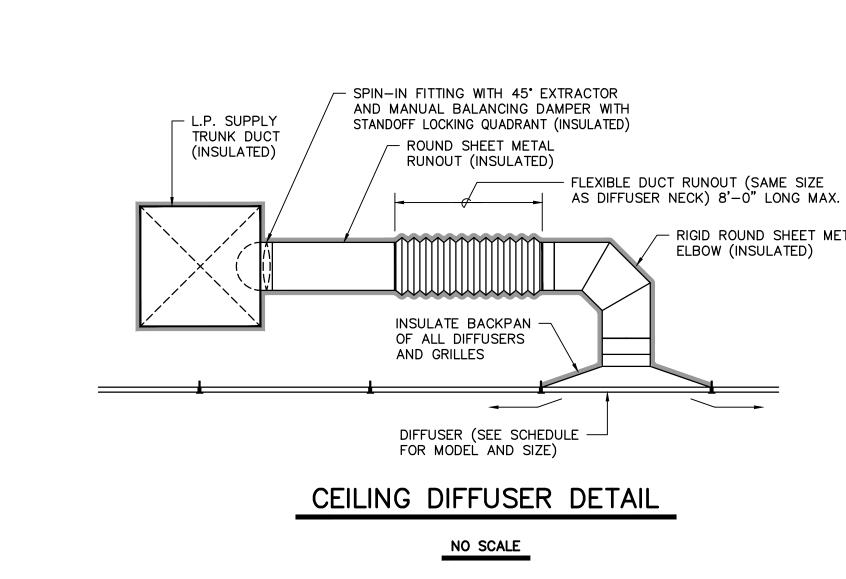
1, 2

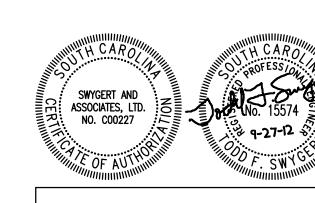
FIRST FLOOR RESTROOMS - DEMOLITION

### PROVIDE BAKELIGHT LABEL ABOVE CEILING TO LOCATE STEAM VALVE: "LOW PRESSURE STEAM VALVE IN WALL CHASE BEHIND MIRROR ACCESS PANEL"









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- RIGID ROUND SHEET METAL ELBOW (INSULATED)

FLOOR PLANS, NOTES, SCHEDULE, **DETAIL**, AND **LEGEND** 

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**Project Number:** 

FOR BIDDING

**REVISIONS** 

09-27-12 DEM Checked:

M100

09-27-12

BASEMENT RESTROOMS - RENOVATION

**'------**

BASEMENT RESTROOMS - DEMOLITION

MECHANICAL 015

MECHANICAL 015

SCALE: 1/4" = 1'-0"

ELECTRICAL SYMBOLS			LIG	HTING FIXTURE SCHEDULE
RECESSED FIXTURE, WIRE THRU GREENFIELD FROM OUTLET BOX ABOVE CEILING. "NL" DENOTES FIXTURE WIRED TO A SEPARATE NIGHT LIGHT CIRCUIT.	TYF	E VOLTAGE	DESCRIPTION	MANUFACTURERS
HALF-SHADED FIXTURE DENOTES FIXTURE WITH EMERGENCY BATTERY PACK. SEE FIXTURE SCHEDULE AND SPECIFICATIONS FOR BATTERY TYPE.	A	MVOLT	2x2 2-LAMP SPEC GRADE T8 GRID TROFFER, 0.125" A12 LENS, TRIAD B232IUNVHE-A INSTANT START BALLAST.	WILLIAMS LPT-22-217-S-A12125-EB2(TRIAD)-UNV, LITHONIA 2SP8G-217-A12125-MVOLT-GEB10IS(TRIAD OR EQUIVALENT OF COLUMBIA OR METALUX.
HO- WALL OR CEILING MOUNTED FIXTURE.	A/	MVOLT	SAME AS TYPE A, EXCEPT WITH 1400	ADJUST CATALOG NUMBERS TO ADD BODINE B50 OR
RECESSED FIXTURE.		WIVOLI	LUMEN EMERGENCY BATTERY PACK (EBP) AND INTEGRAL TEST SWITCH.	EQUIVALENT OF IOTA OR CHLORIDE TO FIXTURE.
├── ₩ALL OR CEILING MOUNTED LED EXIT LIGHT, SHADED AREA DENOTES FACE.	В	MVOLT	A" SDEC CRADE LED DOWNLIGHT WITH HICK	OMEGA OM4LED-20-120-R4LED-40K-CSS, GOTHAM
S SINGLE POLE SWITCH, 20A, 120/277V, 48" AFF TO TOP OF OUTLET BOX. SUSBSCRIPT DENOTES OUTLETS CONTROLLED. PROVIDE STAINLESS STEEL COVER PLATE AND IVORY SWITCH.  GFCI RECEPTACLE, MOUNTING HEIGHTS AS ABOVE. 20A, 125V, NEMA 5–20R. HUBBELL		MVOLI	BRIGHNESS LEDS, INTERGRAL HEAT SINK, SOLID STATE 0-10V DIMMABLE DRIVER. 18GA. GALV. STEEL CONSTRUCTION 50 LPW FIXTURE EFFICAY (1000 LUMENS).	ALED-41/10-4AR-277, OR EQUIVALENT
GFR-5362-X-TR OR APPROVED EQUAL. IVORY COLOR. PROVIDE STAINLESS STEEL COVER PLATE.			, ,	
PROVIDE STAINLESS STEEL COVER PLATE AND IVORY GFCI RECEPTACLE.  BRANCH CIRCUIT WIRING RUN CONCEALED IN WALLS OR CEILING, 1#12G, 2#12 UNLESS NOTED	BE	B MVOLT	SAME AS TYPE B EXCEPT EMERGENCY BATTERY PACK AND INTEGRAL TEST SWITCH	OMEGA OM4LED-20-EM-120-R4LED-40K-CSS, OR EQUIVALENT OF GOTHAM
OTHERWISE. ARROW DENOTES HOME RUN AND NUMERAL DENOTES CIRCUIT NUMBER. WHERE MORE THAN TWO CONDUCTORS ARE REQUIRED, SLASH MARKS INDICATE NUMBER OF #12 CONDUCTORS:	С	MVOLT	LED WALL SCONCE, DIE-STAMPED STEEL AND TUBULAR STEEL STRUCTURE WITH PLATED FINISH	EUREKA 3156B-JDJ-S-SC-WA
— ////Ł → "L" DENOTES GROUNDING WIRE  MULTIWIRE BRANCH CIRCUITS USING A SHARED OR COMMON NEUTRAL ARE NOT PERMITTED ON THIS	XC	120/277	CEILING MOUNT LED EXIT WITH WHITE POLYCARBONATE HOUSING, RED DIFFUSER, NICAD BATTERY, SELF DIAGNOSTICS.	CHLORIDE CXXL-3-R-W, LITHONIA LQM-S-W-3R-120/277-ELN-SD, DUALLITE LX-U-R-W-E-I, OR SURELITE LPX-7-SD.
PROJECT. THE CONTRACTOR SHALL PULL A SEPARATE NEUTRAL FOR ALL 120V AND 277V CIRCUITS. CONDUIT HOMERUNS TO PANELBOARDS SHALL BE 3/4" MINIMUM, OTHERWISE RACEWAYS SHALL BE 1/2" MINIMUM, EXCEPT THAT FLEXIBLE CONDUIT SHALL BE 3/8" MINIMUM.	XV	120/277	SAME AS TYPE XC, EXCEPT FLAT WALL MOUNTED.	ADJUST CATALOG NUMBERS FOR WALL MOUNTED EXIT
HAND DRYER. VERIFY MOUNTING HEIGHT WITH ARCHITECT AND INSTALL ACCORDINGLY. XLERATOR	NC NC	TE: ELECTF	RICAL CONTRACTOR SHALL VERIFY EXISTING VO	LTAGE OF LIGHTING CIRCUITS BEFORE ORDER FOR FIXT

NOTE: ELECTRICAL CONTRACTOR SHALL VERIFY EXISTING VOLTAGE OF LIGHTING CIRCUITS BEFORE ORDER FOR FIXTURES ARE PLACED.

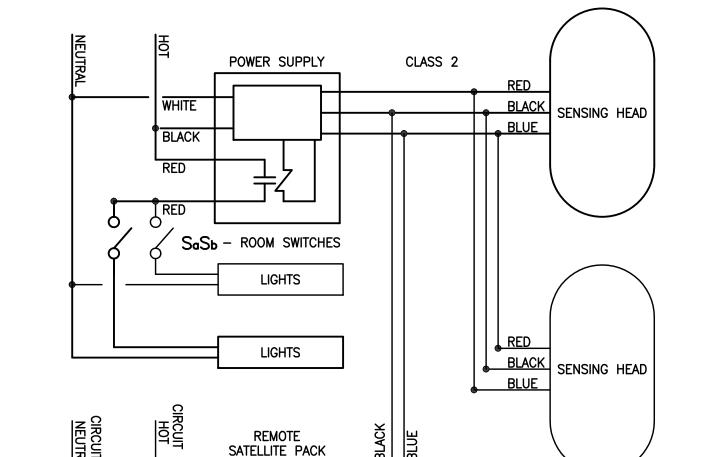
#### FIXTURE SCHEDULE NOTES

- FIXTURE BODIES MANUFACTURED FROM PRE-PAINTED STEEL SHALL BE PAINTED AFTER FABRICATION, UNLESS NOTED.
- LINEAR FLUORESCENT ELECTRONIC BALLASTS SHALL HAVE A MINIMUM POWER FACTOR OF 0.90 AND A THD < 10%, AS MANUFACTURED BY UNIVERSAL LIGHTING TECHNOLOGIES (TRIAD FOR NON-DIMMED & BALLASTAR FOR STEPPED DIMMING). ALL FLUORESCENT BALLAST SHALL BE WIRED USING A DISCONNECT PLUG DESIGNED IN ACCORDANCE WITH NEC 410.130(G). <u>EQUIVALENT BALLASTS BY ADVANCE, GE, OR OSRAM-SYLVANIA ARE ACCEPTABLE</u> PROVIDED THE PERFORMANCE IS EQUAL TO OR BETTER THAN THE SPECIFIED BALLAST.
- NON-DIMMED BALLAST (120V/277V) 50/100 STEPPED BALLAST (120V/277V) 30/60/100 STEPPED BALLAST (120V/277V) 2-LAMP: ULT TRIAD B232IUNVHE-A (55W/54W) ULT BALLASTAR B232PUS50-A (57W/56W) ULT BALLASTAR B232RXXXS30 (62W/63W)
- ALL LINEAR FLUORESCENT LAMPS SHALL BE PHILIPS HIGH PERFORMANCE ADVANTAGE T8 LAMPS WITH ALTO II TECHNOLOGY, LOW MERCURY (1.7 MG), 97% LUMEN MAINTENANCE, 85 CRI, 4100K COLOR TEMPERATURE, AND SHALL HAVE A MINIMUM INITIAL LIGHT OUTPUT RATING OF 3100 LUMENS AND AN AVERAGE LIFE RATING OF 36,000 HOURS WHEN OPERATED ON A PROGRAMMED START BALLAST AND 30,000 HOURS WHEN STARTED ON AN INSTANT START BALLAST, BASED ON 3-HOURS PER START. <u>EQUIVALENT LAMPS BY GE OR OSRAM-SYLVANIA ARE ACCEPTABLE PROVIDED THE PERFORMANCE IS</u> EQUAL TO OR BETTER THAN THE SPECIFIED LAMP.
- 3. NOMINAL THICKNESS OF FLUORESCENT FIXTURE LENSES SHALL BE 0.125", UNLESS NOTED OTHERWISE.
- 4. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING SCHEDULE AND/OR REFLECTED CEILING PLAN.
- 5. WIRE RECESSED FLUORESCENT FIXTURES THRU GREENFIELD FROM OUTLET BOX ABOVE CEILING.

FIELD VERIFY ALL MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO ROUGH-IN.

- 6. PULL UNSWITCHED HOT LEG TO ALL EXIT AND EMERGENCY BATTERY LIGHTS AS REQD. ALL EMERGENCY BATTERIES SHALL BE SEALED, MAINTENANCE-FREE, HIGH TEMPERATURE NICKEL CADMIUM BATTERIES, UNLESS NOTED. SELF-CONTAINED EMERGENCY LIGHTING FOR FLUORESCENT FIXTURES SHALL HAVE A MINIMUM OF 1400 LUMENS OUTPUT FOR 90 MINUTES. BATTERIES TO BE BODINE B50 OR EQUIVALENT BY IOTA, DUALLITE, SURELITE, OR CHLORIDE.
- DIGITAL SWITCHING SYSTEM AND OCCUPANCY SENSORS PROVIDE ALL POWER PACKS AND MOUNTING HARDWARE NECESSARY TO PROVIDE A COMPLETE AND OPERABLE SYSTEM. SEE SPECIFICATIONS, DETAILS, AND DIGITAL SWITCHING SCHEDULES.
- SHOP DRAWING SUBMITTALS ARE REQUIRED FOR ALL ALLOWANCED LIGHT FIXTURES. ONCE CATALOG NUMBER AND PRICE ARE VERIFIED, SUBMIT
- MANUFACTURER'S CUT SHEETS IN ACCORDANCE WITH DIVISION 1 SUBMITTAL REQUIREMENTS.

FIXTURE MOUNTING HEIGHTS - REFER TO ARCHITECTURAL DRAWINGS & ELEVATIONS FOR MOUNTING HEIGHTS OF WALL MOUNTED LIGHT FIXTURES.



1. SET DELAY AT 10 MINUTES UNLESS NOTED OTHERWISE, SEE OCCUPANCY

3. LV WIRING TO BE RUN IN CONDUIT IN

SENSOR NOTES THIS SHEET. 2. MTG HEIGHT PER MANUFACTURER'S

RECOMMENDATIONS.

ALL K-12 APPLICATIONS.

CEILING MOUNTED DUAL TECHNOLOGY SENSOR WITH POWER PACK(S) AS REQURIED. WATTSTOPPER DT-300 OR EQUIVALENT OF SENSOR SWITCH (ACUITY) OR HUBBELL.

MODEL XL-SB OR APPROVED EQUAL.

LOW VOLTAGE CEILING AND WALL MOUNTED OCCUPANCY SENSOR DETAIL

LIGHTS

SCOPE OF WORK

(120/277)

2/F17T8/ADV841/ALTO

2/F17T8/ADV841/ALTO

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THE WORK OF THIS SECTION SHALL PROVIDE COMPLETE ELECTRICAL SYSTEMS WHICH SHALL INCLUDE THE PROVIDING OF ALL CONDUCTORS, RACEWAYS, FITTINGS, CIRCUIT PROTECTIVE DEVICES, LIGHT FIXTURES, BOXES, SUPPORTS, AND ALL ASSOCIATED APPURTENANCES AND MISCELLANEOUS EQUIPMENT NECESSARY, ALL OF WHICH SHALL BE COMPLETELY CONNECTED, TESTED, ADJUSTED AND LEFT IN PROPER OPERATING CONDITION. THE ELECTRICAL SYSTEM TO BE PROVIDED SHALL INCLUDE SERVICE AND DISTRIBUTION FACILITIES POWER FOR MOTOR OPERATED EQUIPMENT, LIGHTING SYSTEMS, AND ALL OUTLETS AS COVERED HEREINAFTER.

#### **GENERAL NOTES:**

- 1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE 2008 NATIONAL ELECTRICAL CODE (NEC), THE 2006 INTERNATIONAL BUILDING CODE (IBC), AND ANY LOCAL CODES, LAWS AND ORDINANCES WHICH MAY APPLY. WHERE DIFFERENCES EXIST BETWEEN THE CODES, THE STRICTER CODE SHALL APPLY.
- 2. ALL CONDUITS SHALL CONTAIN A GROUNDING CONDUCTOR REGARDLESS OF USE.
- THE CONTRACTOR FOR THE WORK UNDER THIS SECTION SHALL PROCURE AND PAY FOR ALL PERMITS, FEES, AND LICENSES REQUIRED FOR THE EXECUTION OF THIS WORK. SATISFACTORY EVIDENCE OF COMPLIANCE WITH THE REQUIREMENT AND ALL CERTIFICATES OF INSPECTION SHALL BE DELIVERED TO THE OWNER PROMPTLY UPON REQUEST.
- TYPE MC CABLE MAY NOT BE USED ON THIS PROJECT, EXCEPT THAT METAL CLAD CABLE SHALL BE PERMITTED FOR LIGHT FIXTURE WHIPS PROVIDED THEY DO NOT EXCEED 6-FEET IN LENGTH AND ARE PROVIDED BY THE LIGHT FIXTURE MANUFACTURER.
- UNLESS OTHERWISE NOTED FOR 120-VOLT, 20-AMP CKTS: #10 AWG SHALL BE USED FOR HOMERUNS LONGER THAN 75 FEET #12 AWG SHALL BE USED FOR HOMERUNS 75 FEET OR SHORTER
- MULTIWIRE BRANCH CIRCUITS USING A SHARED OR COMMON NEUTRAL ARE NOT PERMITTED ON THIS PROJECT. THE CONTRACTOR SHALL PULL A SEPARATE NEUTRAL FOR ALL 120V AND 277V CIRCUITS.
- MOUNT RECEPTACLES 16" AFF UNLESS OTHERWISE NOTED.

SHALL BE IVORY IN COLOR.

- 8. ALL LIGHT SWITCHES AND RECEPTACLES SHALL BE BY THE SAME MANUFACTURER. COVER PLATES SHALL BE JUMBO STAINLESS STEEL. DEVICE
- ELECTRICAL METALLIC TUBING AND RIGID GALVANIZED STEEL CONDUIT SHALL BE THE ONLY TYPES OF CONDUIT INSTALLED WITHIN THE BUILDING. PVC IS PERMITTED UNDERGROUND.
- 10. BRANCH CIRCUITS SHALL BE RUN CONCEALED WHERE PRACTICAL. BRANCH CIRCUITS RUN EXPOSED TO WEATHER ON EXTERIOR WALLS OR ON ROOFS SHALL BE RUN IN GRC OR IMC WITH SCREWED FITTINGS. BRANCH CIRCUITS RUN CONCEALED IN WALLS OR CEILINGS SHALL BE RUN IN EMT, GRC, OR IMC. BRANCH CIRCUITS RUN EXPOSED IN DRY, FINISHED SPACES SHALL BE RUN IN WIREMOLD SURFACE METAL RACEWAY. BRANCH CIRCUITS RUN EXPOSED IN DAMP LOCATIONS, UNFINISHED SPACES (ATTICS), AND UNOCCUPIED SPACES (STORAGE ROOM, EQUIPMENT
- 11. CONDUIT HOMERUNS TO PANELBOARDS AND ALL CONDUITS SHOWN WITH MULTIPLE CIRCUITS SHALL BE 3/4" MINIMUM, OTHERWISE RACEWAYS SHALL BE 1/2" MINIMUM, EXCEPT THAT FLEXIBLE CONDUIT SHALL BE 3/8" MINIMUM.
- 12. ALL FIRE RATED WALLS, FLOORS, ETC WHICH HAVE A CONDUIT OR OTHER ELECTRICAL PENETRATION SHALL BE SEALED TO EQUAL THE RATING OF THE WALL, FLOOR, ETC. THAT IS PENETRATED. CONTRACTOR SHALL USE A U.L. RATED AND LISTED ASSEMBLY FOR THE SEALING MATERIAL AND METHOD. COORDINATE MANUFACTURER WITH THE GENERAL CONTRACTOR SO THAT ALL TRADES ON THE PROJECT USE THE SAME MANUFACTURER. ALL OUTLET BOXES 4"x4" OR SMALLER LOCATED ON OPPOSITE SIDES OF A RATED WALL SHALL HAVE A MINIMUM OF 24" HORIZONTAL SPACING OR SHALL BE PROTECTED WITH LISTED PUTTY PADS. ALL OUTLET BOXES LARGER THAN 4"x4" (COMMUNICATIONS OUTLETS, ETC.) LOCATED IN
- 13. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS, LOCATIONS, CABINETS, ETC.

ROOMS, JANITOR'S CLOSET, ETC.) MAY BE RUN IN EMT IN LIEU OF WIREMOLD.

- 14. CONCEAL ALL CONDUIT AND FITTINGS EXCEPT WHERE THE ARCHITECT GRANTS SPECIFIC PERMISSION.
- 15. ALL WORK AND MATERIALS SHALL BE GUARANTEED FOR ONE YEAR FROM DATE OF ACCEPTANCE.
- 16. PROVIDE ONE COMPLETE SET OF ELECTRICAL DRAWINGS MARKED UP FOR RECORD DRAWINGS. SHOW ALL LOCATIONS OF EQUIPMENT AND MATERIALS.
- 17. INSTALL ALL MATERIALS PER MANUFACTURER'S INSTRUCTIONS.

RATED WALLS SHALL BE PROTECTED WITH LISTED PUTTY PADS.

- 18. VISIT SITE TO DETERMINE EXISTING CONDITIONS PRIOR TO SUBMITTING BID.
- 19. ALL RACEWAYS, FIXTURES, WIRING, DEVICES, AND EQUIPMENT RENDERED USELESS BY THIS WORK SHALL BE REMOVED AND DELIVERED TO THE OWNER'S STORAGE FACILITY AS DIRECTED. ANY MATERIAL NOT WANTED BY THE OWNER SHALL BE DISPOSED OF BY THE CONTRACTOR.
- 20. ELECTRICAL CONTRACTOR SHALL DO ALL CUTTING AND PATCHING AS REQUIRED TO INSTALL HIS WORK. FINISH PATCHING AND PAINTING WILL BE
- DONE BY THE GENERAL CONTRACTOR.
- PRIOR TO DIGGING ANY TRENCHES, NOTIFY ALL UTILITIES AND OBTAIN LOCATIONS OF UNDERGROUND UTILITIES. ANY DAMAGES DONE TO UNDERGROUND UTILITIES OR PIPING BY THIS CONTRACTOR WILL BE REPAIRED BY THE OWNER OF THE LINE IN A SATISFACTORY MANNER. THIS CONTRACTOR WILL BEAR ALL COSTS FOR REPAIRS. THE MAIN ELECTRICAL FEEDER AND THE SERVICE ENTRANCE COMMUNICATIONS CONDUITS SHALL BE BE ENCASED IN 2" CONCRETE ON ALL SIDES WHERE RUN UNDERGROUND, EXCEPT WHERE RUN UNDER THE CONCRETE FLOOR SLAB.
- 22. ALL WORK UNDER THIS SECTION SHALL BE COORDINATED WITH OTHER TRADES TO INSURE PROPER LOCATION OF OUTLETS AND EQUIPMENT CONNECTIONS, AND TO MINIMIZE CONFLICTS WITH STRUCTURAL MEMBERS, DUCT WORK, PIPING, ETC. CONFLICTS BETWEEN EQUIPMENT AND/OR MATERIAL LOCATIONS SHALL BE CORRECTED AS DIRECTED BY THE ARCHITECT-ENGINEER AT NO ADDITIONAL COST TO THE OWNER.

ELECTRICAL SHEET LIST

E201 - POWER PLANS

E001 - ELECTRICAL SYMBOLS & NOTES E101 - LIGHTING AND DEMOLITION PLANS

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**ELECTRICAL** 

**SYMBOLS AND** 

**REVISIONS** FOR CONSTRUCTION

FOR CONSTRUCTION C1207

SIMS GROUP ENGINEERS, INC. 800 Columbiana Drive, Suite 208

Phone: (803) 765-1007 Fax: (803) 765-1030

Irmo, South Carolina 29063

www.simsgroupusa.com

FIRE ALARM SYSTEM:

THE EXISTING FIRE ALARM SYSTEM IS BEING REPLACED WITH A NEW SYSTEM AT THIS TIME

AND NEW FIRE ALARM DEVICES WILL BE

INSTALLED IN THESE AREAS AT THAT TIME.

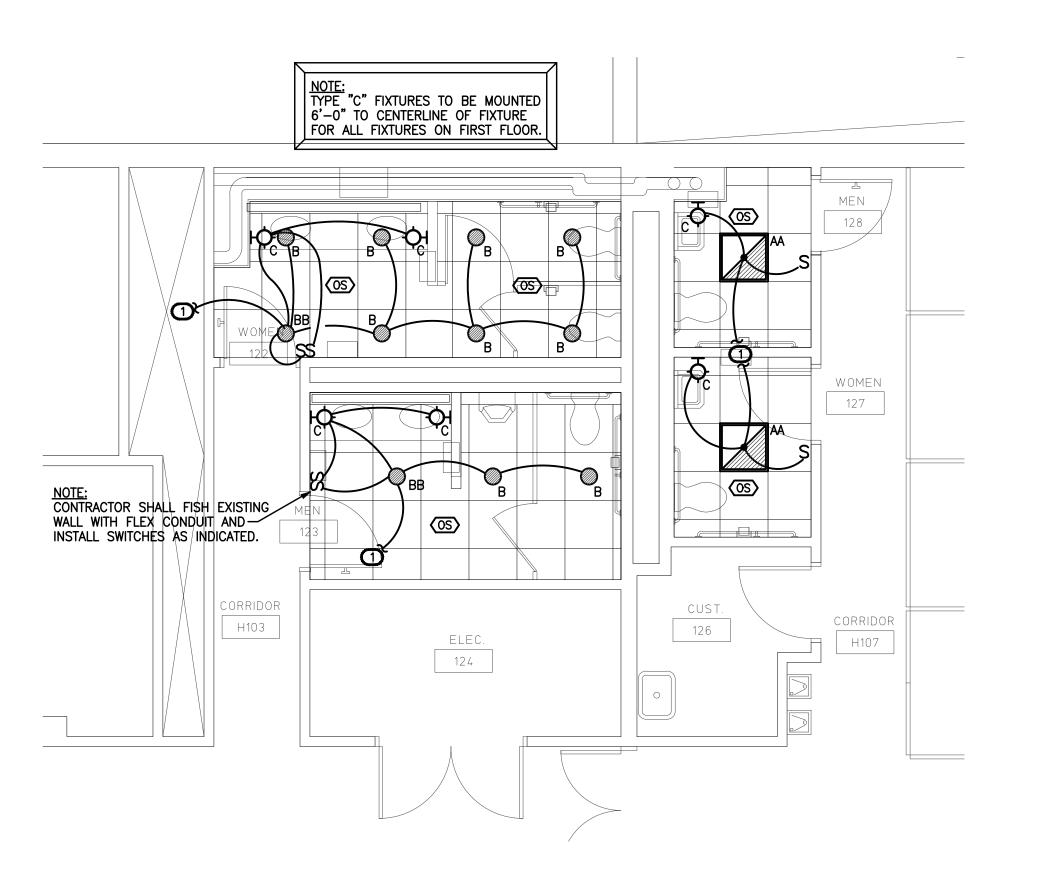
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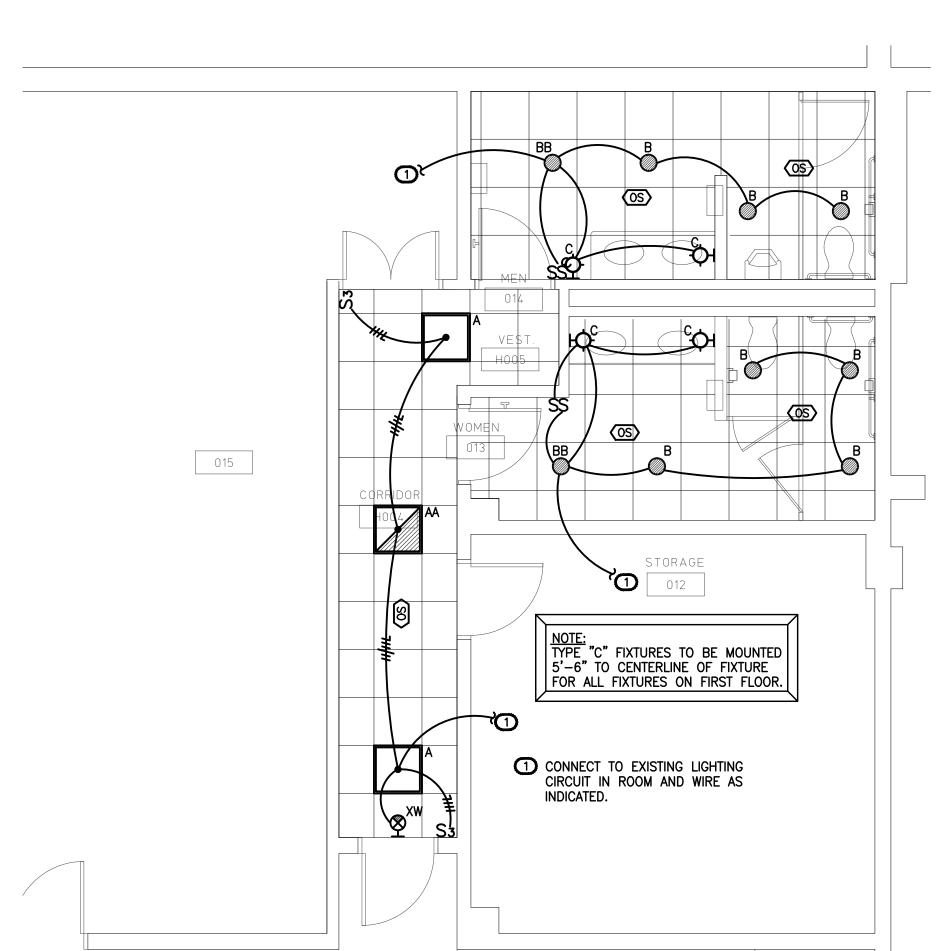
**DETAILS** 

E001

09-21-12

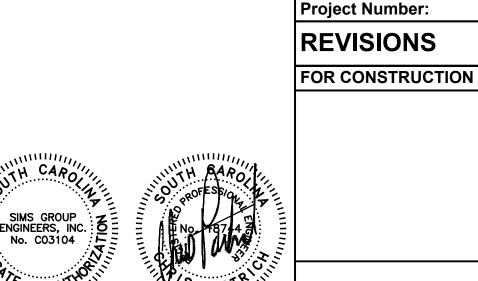


### <u>LIGHTING</u> FIRST FLOOR PLAN



LIGHTING
BASEMENT LEVEL PLAN
SCALE: 1/4"=1'-0"





**LIGHTING AND DEMOLITION PLANS** 

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NOTE 3 -MECHANICAL 015 NOTE 2 012 NOTE 2 <del>├</del> = =|= <del>-</del> +

SCALE: 1/4"=1'-0"

<u>DEMOLITION</u> BASEMENT LEVEL PLAN

DEMOLITION FIRST FLOOR PLAN

DEMOLITION NOTES:

1. CONTRACTOR SHALL REMOVE EXISTING SURFACE MOUNTED RACEWAY, DUPLEX RECEPTACLE, AND WIRING TO LAST DEVICE REMAINING. 2. CONTRACTOR SHALL REMOVE ALL RECESSED AND SURFACE MOUNTED LIGHT FIXTURES IN EXISTING LAY-IN CEILING BEING REMOVED BY OTHERS. REMOVE RACEWAY AND WIRING TO JUNCTION BOX ABOVE CEILING. MAINTAIN HOT LEG OF LIGHTING CIRCUIT FOR NEW LIGHTING SHOWN ON THIS SHEET. 3. CONTRACTOR SHALL REMOVE WALL MOUNTED LIGHT FIXTURE FIXTURE. RE—CONNECT WIRING AS REQUIRED TO MAINTAIN LIGHTING CIRCUIT. REQUIRED TO MAINTAIN LIGHTING CIRCUIT. 4. CONTRACTOR SHALL REMOVE WALL MOUNTED LIGHT SWITCH FROM WALL BEING REMOVED BY OTHERS. REMOVE CONDUIT AND WIRING COMPLETE 5. CONTRACTOR SHALL REMOVE LIGHT SWITCH AND COVER PLATE AND REPLACE WITH SWITCHES INDICATED ON NEW LIGHTING PLAN THIS SHEET.

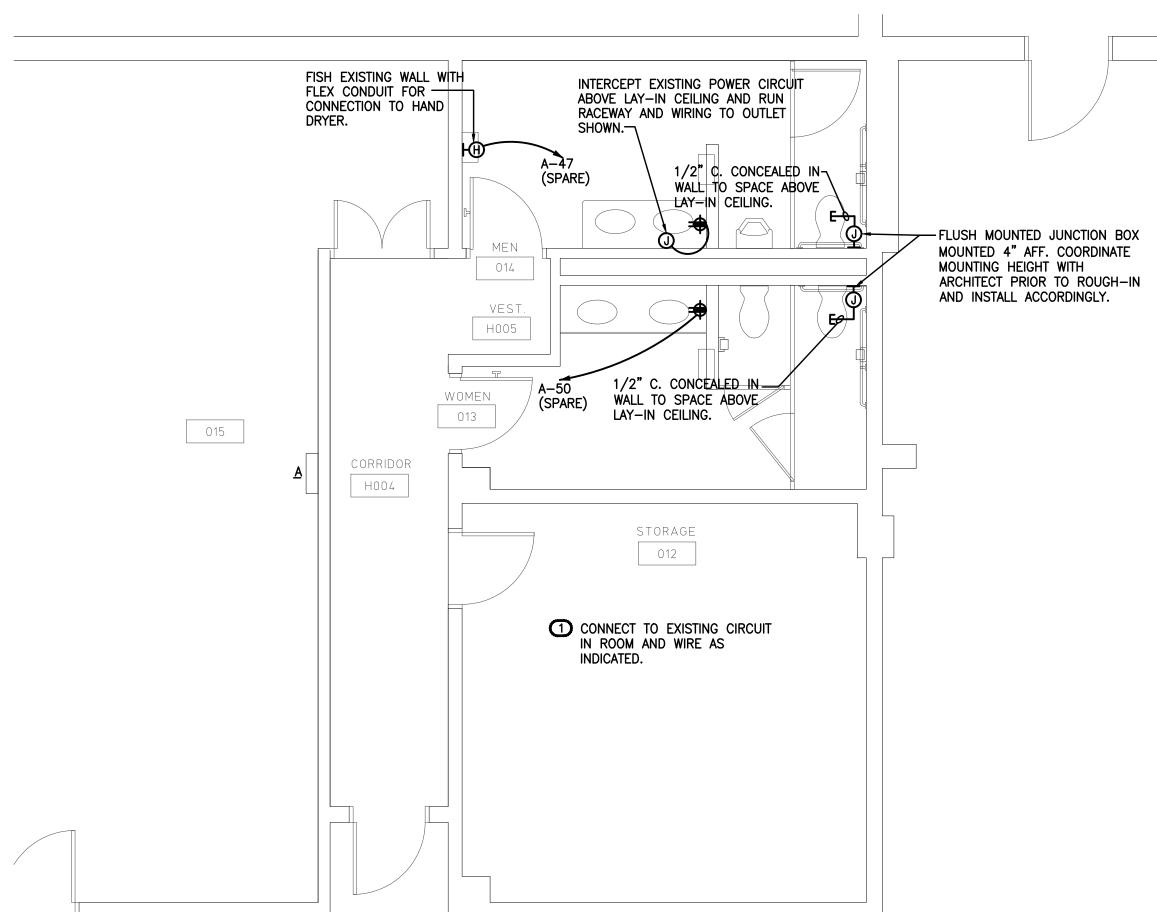
SCALE: 1/4"=1'-0"

ELEC. 124



FISH EXISTING WALL AND EXTEND CONDUIT AND WIRING AS REQURIED FOR NEW CFCI RECEPTACLE.

WOMEN 122



POWER
BASEMENT LEVEL PLAN

SCALE: 1/4"=1'-0"

REVISIONS FOR CONSTRUCTION FOR CONSTRUCTION C12071

**POWER PLANS** 

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9/24/2012 Checked:

E201

Carolin FIRE ALARM SYSTEM:
THE EXISTING FIRE ALARM SYSTEM IS BEING REPLACED WITH A NEW SYSTEM AT THIS TIME AND NEW FIRE ALARM DEVICES WILL BE INSTALLED IN THESE AREAS AT THAT TIME.