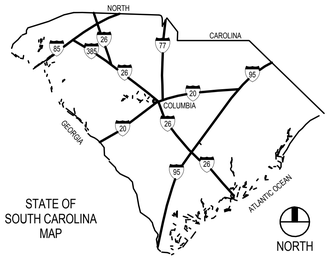
UNIVERSITY OF SOUTH CAROLINA
SWIM TEAM LOCKER ROOM RENOVATIONS

Solomon Blatt Physical Education Center
1300 Wheat Street
Columbia, SC 29208

USC Project Number H27-Z159/Architect's Project Number: U328.13

100% BID DOCUMENTS
30 APRIL 2014



STATE OF SOUTH CAROLINA MAP

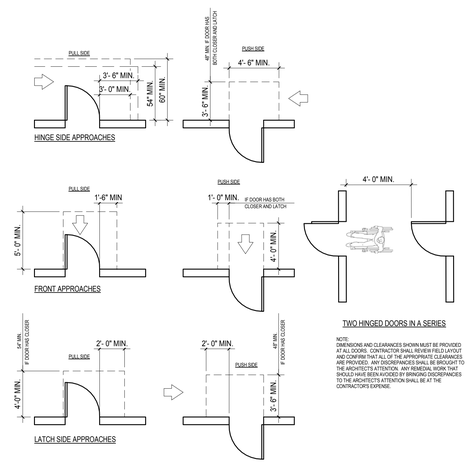
MATERIAL DESIGNATIONS

- COMPACTED EARTH
- POROUS FILL (STONE OR GRAVEL)
- CONCRETE
- CONCRETE MASONRY UNIT (CMU)
- BRICK
- SAND, PLASTER, CEMENT, GROUT
- STEEL
- WOOD (ROUGH)
- WOOD (FINISHED)
- PLYWOOD
- BATT INSULATION
- GYPSUM BOARD
- RIGID INSULATION

ABBREVIATIONS

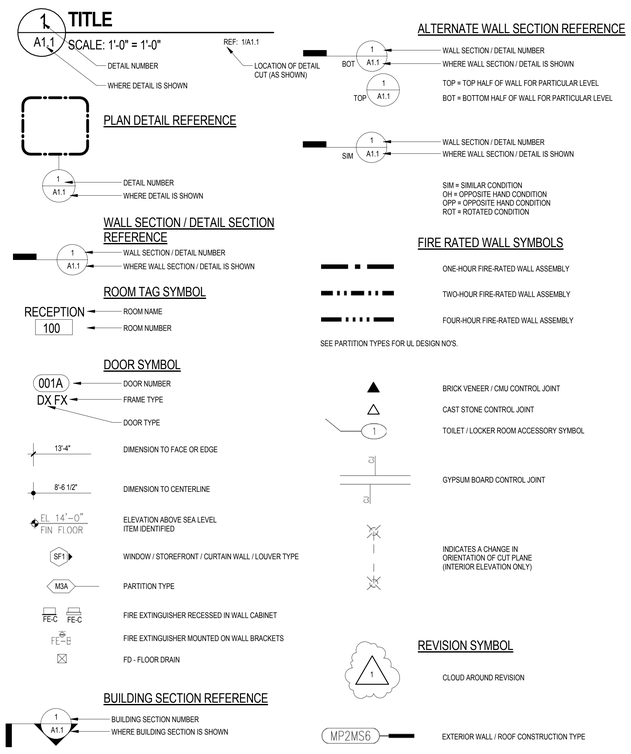
∠	ANGLE
@	AT
AFF	ABOVE FINISH FLOOR
ALUM	ALUMINUM
ARCH	ARCHITECTURAL
BLKG	BLOCKING
BU	BUILT- UP ROOF
℄	CENTERLINE
CJ	CONTROL JOINT
CLG	CEILING
CTR	CENTER
CONC	CONCRETE
CMU	CONCRETE MASONRY UNIT
CONT	CONTINUOUS
DIA	DIAMETER
DS	DOWN SPOUT
DWG	DRAWING
EXT	EXTERIOR
EXIST	EXISTING
EA	EACH
EJ	EXPANSION JOINT
ELEC	ELECTRICAL
EL	ELEVATION
ELEV	ELEVATOR
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
FIN	FINISH
FD	FLOOR DRAIN
FOF	FACE OF FINISH
FOS	FACE OF STUD
FR	FIRE RETARDENT
FV	FIELD VERIFY
GA	GAUGE
GYP BD	GYPSUM BOARD
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HT	HEIGHT
HVAC	HEATING VENTILATION AIR-CONDITIONING
ID	INSIDE DIAMETER
INSUL	INSULATION
JT	JOINT
LAV	LAVATORY
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MO	MASONRY OPENING
NIC	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OPNG	OPENING
OPP	OPPOSITE
P	PAINT
PR	PAIR
PL	PLATE, PROPERTY LINE
PT	PRESSURE TREATED
R, RAD	RADIUS
REQD	REQUIRED
RD	ROOF DRAIN
RO	ROUGH OPENING
SF	SQUARE FEET
SIM	SIMILAR
SPEC	SPECIFICATIONS
SS	STAINLESS STEEL
STD	STANDARD
STR	STRUCTURAL
SUSP	SUSPENDED
TOS	TOP OF STEEL
TOW	TOP OF WALL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VCT	VINYL COMPOSITION TILE
W	WITH
WC	WATER CLOSET
WR	WATER RESISTANT
WWF	WELDED WIRE FABRIC
WD	WOOD

MANEUVERING CLEARANCES



NOTE:
DIMENSIONS AND CLEARANCES SHOWN MUST BE PROVIDED AT ALL DOORS. CONTRACTOR SHALL REVIEW FIELD LAYOUT WITH ARCHITECT PRIOR TO ROUGH-IN TO ENSURE CLEARANCES ARE PROVIDED. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION. ANY REMEDIAL WORK THAT SHOULD HAVE BEEN AVOIDED BY BRINGING DISCREPANCIES TO THE ARCHITECT'S ATTENTION SHALL BE AT THE CONTRACTOR'S EXPENSE.

ARCHITECTURAL SYMBOLS



CODE INFORMATION

PROJECT DESIGNED IN ACCORDANCE WITH:
1. INTERNATIONAL BUILDING CODE (IBC), 2012 EDITION
2. INTERNATIONAL EXISTING BUILDING CODE (IEBC), 2012 EDITION
3. INTERNATIONAL FIRE CODE (IFC), 2012 EDITION
4. INTERNATIONAL ENERGY CONSERVATION CODE (IECC), 2009 Editon
5. INTERNATIONAL FUEL GAS CODE (IFGC), 2012 EDITION
6. INTERNATIONAL MECHANICAL CODE (IMC), 2012 EDITION
7. INTERNATIONAL PLUMBING CODE (IPC), 2012 EDITION
8. NATIONAL ELECTRICAL CODE (NEC) (NFPA-70), 2011 EDITION
9. NATIONAL ELECTRICAL SAFETY CODE, ANSI-C2-2007 EDITION
10. STATE FIRE MARSHAL RULES, REGULATIONS, AND POLICIES - LATEST EDITION
11. ASHRAE/IESNA 90.1-2007, ENERGY EFFICIENT DESIGN OF NEW BUILDINGS
12. ICC/ANSI - A117.1 - 2009, ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

BUILDING CODE REVIEW INFORMATION:

1. OCCUPANCY
   A. TYPE OF EXISTING BUILDING OCCUPANCY: ASSEMBLY GROUP: A-3
   B. ADJACENT EXISTING OCCUPANCY: ASSEMBLY GROUP: A-4

   C. RENOVATED OCCUPANCY: BUSINESS GROUP: B

2. TYPE OF CONSTRUCTION: EXISTING CONSTRUCTION
   A. ASSUMED CONSTRUCTION CLASSIFICATION: TYPE IA
3. SPRINKLERS: ___ NO _X_ YES
4. STANDPIPES: _X_ NO ___ YES
5. HIGH RISE: _X_ NO ___ YES
6. GENERAL BUILDING DESIGN, ALLOWABLE AREA, AND HEIGHT:
   9480 GSF WITHIN EXISTING FIRST FLOOR SPACE OF EXISTING 273,000 SF, 3-STORY STRUCTURE.

EGRESS OCCUPANCY CALCULATIONS	EXISTING EGRESS OCCUPANCY CALCULATIONS			EGRESS OCCUPANCY CALCULATIONS		
OCCUPANCY TYPE (PER SPACE)	OCCUPANCY FLOOR AREA	FLOOR AREA IN SF/OCCUPANT	DESIGN OCCUPANT LOAD	OCCUPANCY FLOOR AREA	FLOOR AREA IN SF/OCCUPANT	DESIGN OCCUPANT LOAD
WOMEN'S LOCKER ROOM	2217	50 GROSS/EXERCISE ROOM	45	2173	50 GROSS/EXERCISE ROOM	44
MEN'S LOCKER ROOM	1994* *INC. INSTRAL COURT	50 GROSS/EXERCISE ROOM	40	1994	50 GROSS/EXERCISE ROOM	40
CLASSROOM	772	20 NET/CLASSROOM	39	825	20 NET/CLASSROOM	42
ACCESSORY STORAGE/MECHANICAL	512	300 GROSS	2	390	300 GROSS	2
	EXISTING TOTAL OCCUPANT LOAD (BEFORE RENOVATION)		128	NEW TOTAL OCCUPANT LOAD		128

FIRE RESISTANCE RATING OF BUILDING ELEMENTS - EXISTING BUILDING ASSUMED TYPE IA			
BUILDING ELEMENT	RATING AS REQUIRED (IN HOURS)	RATING AS DESIGNED (IN HOURS)	TESTING AGENCY & DESIGN NUMBER (UL, FM, ETC.)
PRIMARY STRUCTURAL FRAME (PER IBC TABLE 601)	3	EXISTING	
BEARING WALLS, EXTERIOR (PER IBC TABLE 601)	3	EXISTING	
BEARING WALLS, INTERIOR (PER IBC TABLE 601)	3	EXISTING	
NONBEARING WALLS & PARTITIONS, EXTERIOR (PER IBC TABLE 602)	0	EXISTING	FIRE SEPARATION DISTANCE ≥ 30' = 0 [TABLE 602]
NONBEARING WALLS & PARTITIONS, INTERIOR (PER IBC TABLE 601)	0	0	
FLOOR CONSTRUCTION AND SECONDARY MEMBERS (PER IBC TABLE 601)	2	EXISTING	
ROOF CONSTRUCTION AND SECONDARY MEMBERS (PER IBC TABLE 601)	1 1/2	EXISTING	
FIRE WALLS (PER IBC SECTION 706)	3	EXISTING	
FIRE BARRIERS (PER IBC SECTION 707)	2	EXISTING	
SHAFT ENCLOSURES (PER IBC SECTION 708)	N/A	EXISTING	
FIRE PARTITIONS (PER IBC SECTION 708 & TABLE 1018.1)	0	0	CORRIDOR FIRE-RESISTANCE RATING [TABLE 1018.1]

STRUCTURAL DESIGN INFORMATION:

* SEE S0.1 FOR STRUCTURAL CODE INFORMATION

GENERAL DESIGN INFORMATION:

* SEE IBC 508.2. THE RENOVATED AREA (3480 SF) IS AN ACCESSORY OCCUPANCY TO THE EXISTING BUILDING (APPROX. 237,000SF). NO SEPARATION IS REQUIRED BETWEEN ACCESSORY OCCUPANCIES AND THE MAIN OCCUPANCY.

* ALL AREAS NOT INCLUDED IN THE RENOVATION SCOPE ARE TO REMAIN AS CURRENTLY DESIGNED.

STRUCTURAL DESIGN INFORMATION:

* EXISTING STRUCTURE TO REMAIN

MECHANICAL INFORMATION:

* EXISTING CENTRAL CHILLED WATER AIR HANDLER AND VARIABLE AIR VOLUME TERMINAL UNITS WITH HOT WATER HEATER. SEE MECHANICAL DRAWINGS.

ELECTRICAL INFORMATION:

1. SERVICE TRANSFORMER: BY UTILITY
   EXISTING
2. PROVIDE THE FOLLOWING SERVICE INFORMATION: --
   SERVICE VOLTAGE/PHASE: EXISTING
   SERVICE ENTRANCE CONDUCTORS SIZE: EXISTING
   TOTAL CONNECTED LOAD: EXISTING
   ESTIMATED MAXIMUM DEMAND: EXISTING
   AVAILABLE FAULT CURRENT IN SYMMETRICAL AMPERES: EXISTING
   INTERRUPTING CAPACITY OF SERVICE OVERCURRENT DEVICE: EXISTING
   TYPE OF GROUNDING ELECTRODE SYSTEM(S) PER NEC 250-C: EXISTING
3. EMERGENCY GENERATOR: NO
4. EXIT/EMERGENCY LIGHTS BACKUP POWER: INTEGRAL BATTERY
5. FIRE ALARM SYSTEM: ADDRESSABLE
6. LIGHTNING PROTECTION PROVIDED: NO
7. COMMUNICATIONS COORDINATED: NOT REQUIRED

PLUMBING INFORMATION:

1. WATER SYSTEM: SERVICE LINE SIZE: 2-2" INCHES PEAK: 92 GPM TOTAL DEMAND: 212 F.U.
2. SANITARY SEWER SYSTEM LOADING: 25GPD/PERSON
3. SERVICE LINE SIZE: 4 INCHES SLOPE: 0.125 INCHES PER FOOT

PLUMBING FIXTURE CALCULATIONS:

* NEW TOILET AND SINK PROVIDED FOR CONVENIENCE. DECREASED OCCUPANCY LOAD DOES NOT REQUIRE ADDITIONAL PLUMBING FIXTURES.

OCCUPANCY TYPE		OCCUPANT LOAD	FIXTURE TYPE	FIXTURE RATIOS: UNITS/OCCUPANT	REQUIRED FIXTURES	PROVIDED FIXTURES	EXISTING FIXTURES
WOMEN'S LOCKER ROOM	BUSINESS (PRIMARY)	128	WATER CLOSETS	1/25 MALE & FEMALE FIRST 50, 1/50 MALE & FEMALE EXCEEDING 50	3 M/ 3 F	6 M/ 6 F	2 M/ 6 F
			LAVATORIES	1/40 MALE & FEMALE FIRST 80, 1/80 MALE & FEMALE EXCEEDING 80	4	5 M/ 8 F	2 M/ 7 F
			FOUNTAIN (EWC)	1/100	2	1M/1F	1M/1F
			SERVICE SINK	1	1	SERVICE SINK NOT PROVIDED IN SCOPE	SERVICE SINK NOT PROVIDED IN SCOPE
			SHOWERS	N/A	N/A	9M/10F	2M/6F

INDEX TO DRAWINGS

DESCRIPTION OF BASE BID AND ALTERNATE SCOPE OF WORK

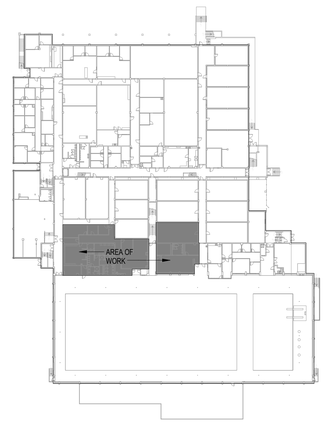
BASE BID

ALL WORK ASSOCIATED WITH THESE DOCUMENTS, UNLESS LISTED AS AN ANTERNATE SCOPE OF WORK BELOW, ARE TO BE PROVIDED AS PART OF THE BASE BID UNLESS NOTED OTHERWISE AS PART OF ALTERNATES BELOW.

ALTERNATES

ALTERNATE NO. 1
PROVIDE ARMSTRONG INFUSION CEILING WAVES, OR APPROVED EQUAL, AS INDICATED IN WOMEN'S LOCKER ROOM 136, TEAM ROOM 138F AND MEN'S LOCKER ROOM 127 AND SPECIFIED IN PROJECT MANUAL, INCLUDING ALL MATERIALS AND INSTALLATION.

KEY PLAN



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PROJECT TITLE
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University of South Carolina
Solomon Blatt Physical Education Center
1300 Wheat Street
Columbia, SC 29208 USC
Project No. H27-Z158

REVISIONS

NO.	NAME	DATE

DRAWN BY: Author
CHECKED BY: Checker

DRAWING TITLE
TITLE SHEET AND INDEX TO DRAWINGS

PROJECT NO. U328.13
DATE 04.30.14

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T1.1

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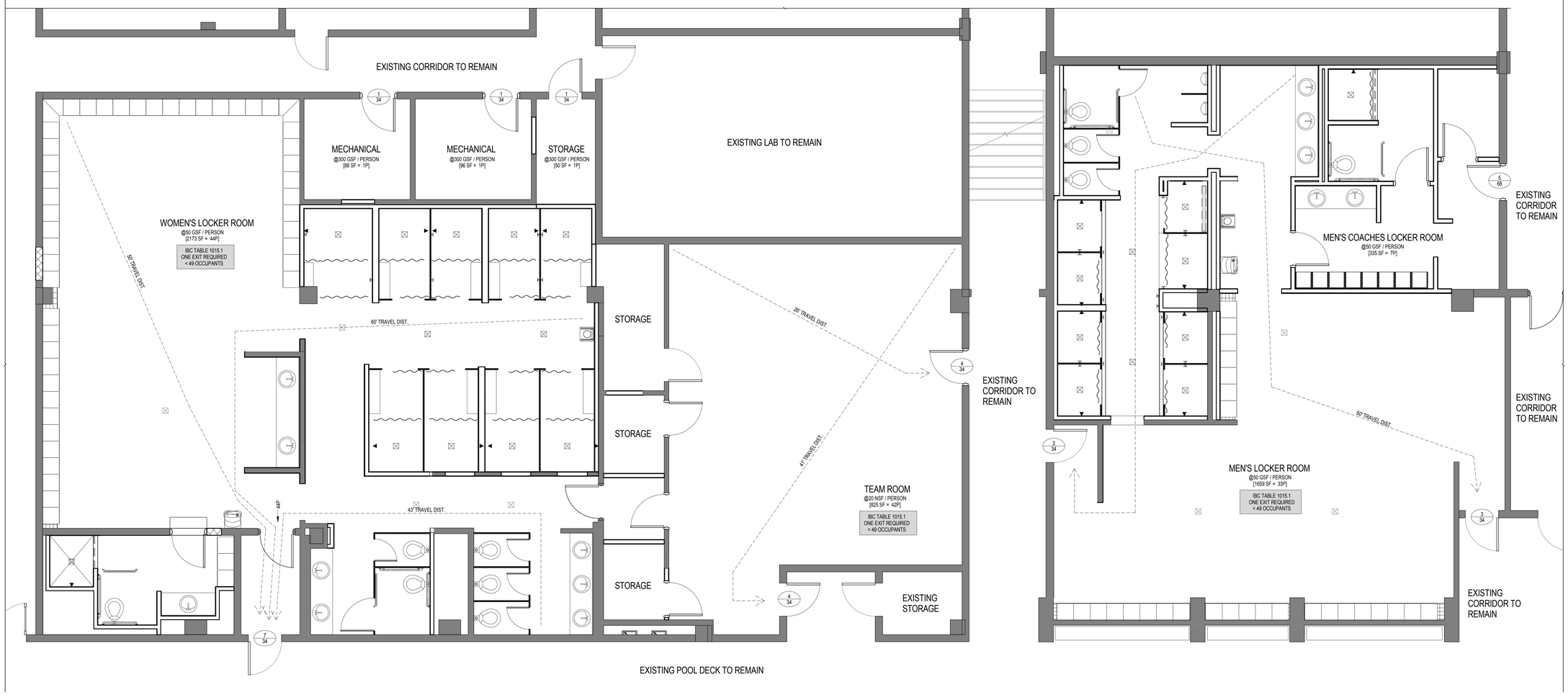

1 X1.1 LIFE SAFETY PLAN
1/4" = 1'-0" REFERENCED ON: A3.1

LEGEND - LIFE SAFETY

- ONE-HOUR FIRE-RATED WALL ASSEMBLY
- TWO-HOUR FIRE-RATED WALL ASSEMBLY
- HALF-HOUR FIRE-RATED WALL ASSEMBLY

SEE PARTITION TYPES FOR UL DESIGN NO'S.

- FE-C FE-C — FIRE EXTINGUISHER RECESSED IN WALL CABINET
- FIRE EXTINGUISHER MOUNTED ON WALL BRACKETS
- EXIT LIGHTS - SEE ELECTRICAL DRAWINGS FOR LOCATIONS

EGRESS WIDTH SYMBOLS

- 5 / 34 — REQUIRED EGRESS WIDTH AT DOOR, IN INCHES / EGRESS WIDTH PROVIDED AT DOOR, IN INCHES
- 4' - 0" (3'-6") — EGRESS WIDTH PROVIDED AT PASSAGE / REQUIRED EGRESS WIDTH AT PASSAGE
- 23 — # OF PEOPLE/DIRECTION OF TRAVEL
- [9,960 SF = 50P] — NET (OR GROSS) SQ. FT./# OF PEOPLE (OCCUPANCY OF SPACE)

TRAVEL DISTANCE LEGEND

- 246'-1" TRAVEL DIST. — 200' TO EXIT FROM REMOTE CORNER
- EXSITING WALL TO REMAIN

GENERAL NOTES - LIFE SAFETY

1. SEE CODE RELATED INFORMATION ON SHEET T1.1
2. MAXIMUM TRAVEL DISTANCE TO AN EXIT = 300 FEET
3. EXIT SIGNS ARE SHOWN ON ELECTRICAL DRAWINGS
4. COMMON PATH OF TRAVEL = 100 FEET

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LIFE SAFETY PLAN

PROJECT NO. U328.13
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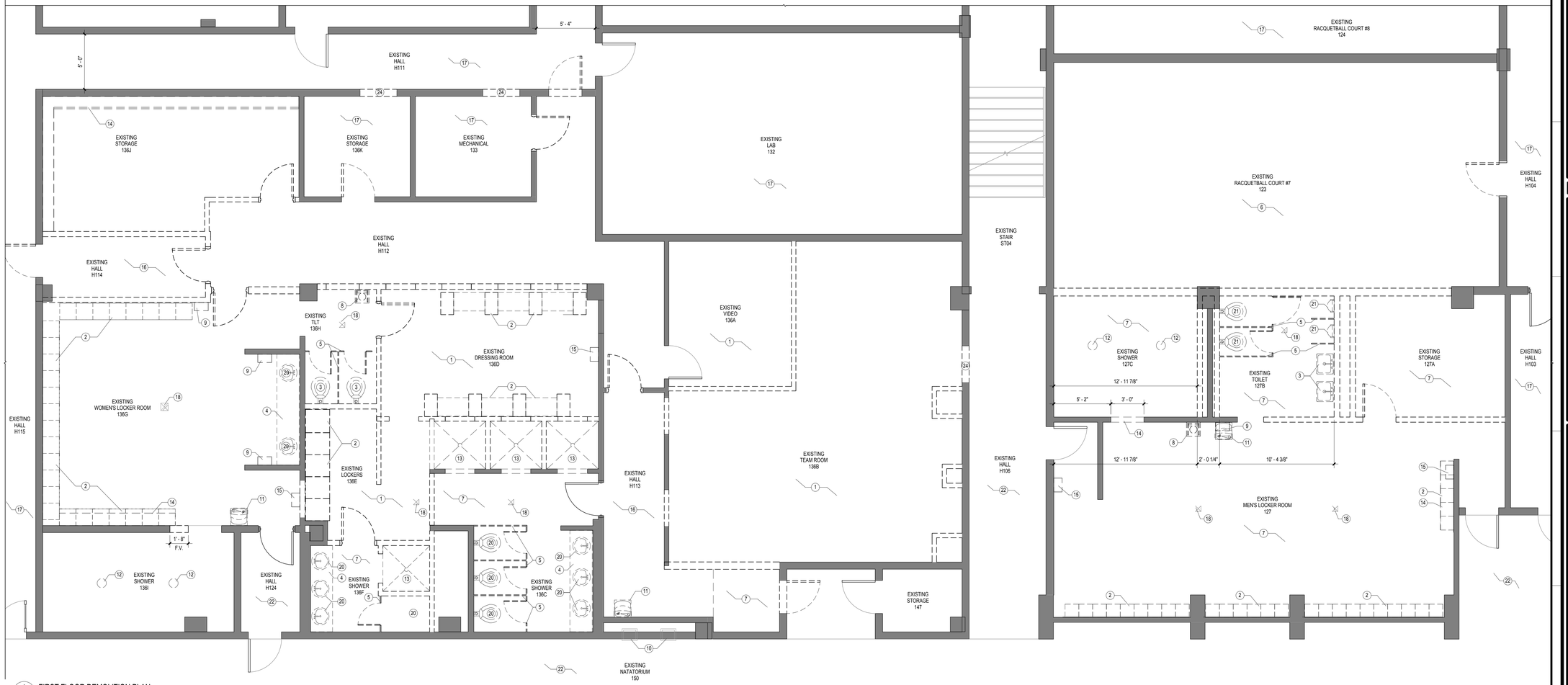
DRAWING NO. X1.1



1 FIRST FLOOR DEMOLITION PLAN
D1.1 1/4" = 1'-0" REFERENCED ON: A3.1

LEGEND - DEMOLITION PLAN

- EXISTING WALL TO BE DEMOLISHED
- EXSITING WALL TO REMAIN
- EXISTING DOOR TO BE DEMOLISHED
- EXISTING DOOR TO BE REMAIN

GENERAL NOTES - DEMOLITION PLAN

1. FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF DEMOLITION AND NEW WORK. EXISTING BUILDING INFORMATION SHOWN IS BASED ON THE EXISTING DRAWINGS PROVIDED BY THE OWNER. GENERAL CONTRACTOR AND SUB-CONTRACTORS ARE TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO BID AND PRIOR TO CONSTRUCTION/DEMOLITION.
2. PROVIDE AND INSTALL ALL SHORING AND SUPPORT SYSTEMS NECESSARY TO ENSURE EXISTING STRUCTURE TO REMAIN IS STABLE THROUGHOUT DEMOLITION AND NEW CONSTRUCTION.
3. ALL DEMOLITION REQUIRED FOR FUTURE INSTALLATION OF MECHANICAL CHASES AND PIPING TO BE COORDINATED WITH MECHANICAL DRAWINGS, EQUIPMENT SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
4. CONTACT OWNER UPON DISCOVERY OF ANY SUSPECTED ASBESTOS-CONTAINING MATERIALS OR OTHER SUSPECTED HAZARDOUS MATERIALS NOT SHOWN TO BE REMOVED WITHIN THE PROJECT SCOPE.
5. REMOVE ALL EXISTING SPRINKLER PIPING, CONDUIT, MECHANICAL EQUIPMENT, ETC. FROM AREA OF WORK UNLESS NOTED TO REMAIN. CONTACT ARCHITECT IF ANY EXISTING MATERIALS TO BE DEMOLISHED ARE IN QUESTION. SEE MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION.
6. CONTRACTOR SHALL PHOTOGRAPH ALL SPACES PRIOR TO COMMENCEMENT OF RENOVATION/NEW WORK TO DOCUMENT PRE-CONSTRUCTION CONDITIONS. PROVIDE ARCHITECT WITH ELECTRONIC COPIES OF PHOTOGRAPHS.
7. CAREFULLY REMOVE ALL "MASONRY IN-FILL" WALL CONSTRUCTION AS INDICATED ON DEMOLITION PLANS AND ELEVATIONS. REVIEW CONCRETE OPENING CONDITIONS/DETAILS WITH ARCHITECT AND WINDOW AND DOOR SUPPLIER TO ENSURE THAT CONCRETE OPENINGS AND WINDOW INSTALLATION REQUIREMENTS ARE COORDINATED.
8. PROTECT EXISTING FLOORING AND CEILING TO REMAIN THROUGHOUT DEMOLITION AND NEW CONSTRUCTION.
9. SEE ELECTRICAL, MECHANICAL, PLUMBING AND STRUCTURAL DRAWINGS FOR ADDITONAL INFORMATION REGARDING THE AREAS OF THE EXISTING CONCRETE SLAB TO BE REMOVED.
10. SEE STRUCTURAL DRAWINGS FOR ADDITONAL INFORMATION REGARDING EXISTING COLUMNS AND BEAMS. PROTECT ALL EXISTING WALLS, COLUMNS, AND STRUCTURE TO REMAIN.
11. INSTALL SELF-LEVELING FLOOR MATERIAL TO ALL FLOOR AREAS THAT ARE TO BE REMOVED OR TO BE IN-FILLED WITH NEW SLABS TO ENSURE FLUSH, SMOOTH FINISH FLOOR PLANE CONDITIONS THROUGHOUT RENOVATED BUILDING.
12. CORE DRILLING IN EXISTING SLAB FOR NEW UTILITY SERVICE IS NOT SHOWN ON THIS PLAN. SEE MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR REQUIRED UTILITY ROUTING.
13. PROTECT ALL EXISTING WATERPROOFING THROUGHOUT DEMOLITION & NEW CONSTRUCTION. PHOTOGRAPH ANY DISTURBED OR DAMAGED WATERPROOFING AREAS AND NOTIFY ARCHITECT OF CONDITIONS PRIOR TO INSTALLING NEW WORK OR BACKFILLING AREAS.
14. REPAIR BOTTOM OF ALL EXISTING COLUMNS AROUND BASE OR HEAD WHEN SURROUNDING SLAB IS REMOVED. SEE SPECIFICATIONS FOR APPLICABLE SURFACE PREPARATION AND PRODUCTS TO BE UTILITIZED FOR PATCHING.
15. ITEMS TO BE SALVAGED AND REMOVED BY OWNER PRIOR TO DEMOLITION ARE IDENTIFIED WITHIN THE SPECIFICATIONS.
16. ALL CEILING AND SOFFIT CONSTRUCTION INCLUDING ELECTRICAL, MECHANICAL, FIRE PROTECTION, ETC. LOCATED WITHIN AND ABOVE CEILING CONSTRUCTION TO BE REMOVED IN THEIR ENTIRETY UNLESS NOTED OTHERWISE.
17. HAZARDOUS MATERIALS ARE PRESENT IN THE SCOPE OF DEMOLITION/CONSTRUCTION. A REPORT ON THE PRESENCE OF HAZARDOUS MATERIALS IS ON FILE FOR REVIEW. HAZARDOUS MATERIALS SHALL BE REMOVED BY OWNER AND A SCHEDULE FOR THE REMOVAL SHALL BE COORDINATED WITH OWNER AND ARCHITECT.

KEYNOTES - DEMOLITION PLAN

1. REMOVE EXISTING CARPET COMPLETELY. PREPARE EXPOSED FLOOR FOR NEW FLOORING INSTALLATION.
2. REMOVE EXISTING LOCKERS COMPLETELY. CONCRETE BASE TO REMAIN, U.N.O.
3. REMOVE EXISTING PLUMBING FIXTURE, SEE PLUMBING.
4. REMOVE EXISTING VANITY COUNTER.
5. REMOVE EXISTING TOILET PARTITIONS.
6. REMOVE EXISTING RAISED FLOOR, INCLUDING ANY EXISTING FLOORING BELOW. PATCH AND FILL EXISTING CONCRETE AS REQUIRED FOR LEVEL SURFACE.
7. REMOVE EXISTING TILE FLOOR AND BASE COMPLETELY. PREPARE EXPOSED CONCRETE FLOOR FOR NEW FLOORING INSTALLATION.
8. REMOVE, STORE AND PROTECT EXISTING SUITMATE FOR FUTURE REINSTALLATION.
9. REMOVE EXISTING ELECTRIC HAND/HAIR DRYER.
10. EXISTING DRINKING FOUNTAIN TO REMAIN.
11. REMOVE EXISTING DRINKING FOUNTAIN.
12. REMOVE EXISTING POLE SHOWERS. PATCH AND FILL EXISTING AS REQUIRED FOR LEVEL SURFACE AND PREPARE FOR NEW FLOORING INSTALLATION.
13. REMOVE EXISTING SHOWERS INCLUDING DRAINS, FAUCETS, TILE, ETC.
14. REMOVE EXISTING CONCRETE CURB. PREPARE EXPOSED CONCRETE FLOOR FOR NEW FLOORING INSTALLATION.
15. REMOVE EXISTING AIR PURIFIER AND ASSOCIATED SHELF.
16. REMOVE EXISTING VCT FLOORING. PREPARE EXPOSED FLOOR FOR NEW FLOORING INSTALLATION.
17. EXISTING FLOORING TO REMAIN. PROTECT EXISTING FLOORING THROUGHOUT DEMOLITION/CONSTRUCTION.
18. EXISTING FLOOR DRAIN TO REMAIN. ADJUST AS REQUIRED FOR INSTALLATION IN NEW FLOORING. SEE PLUMBING.
19. REMOVE EXISTING FLOOR DRAIN. SEE PLUMBING.
20. REMOVE, PROTECT, STORE, AND REINSTALL PLUMBING FIXTURE. SEE PLUMBING DWGS.
21. REMOVE, PROTECT, STORE, AND RELOCATE/REINSTALL EXISTING PLUMBING FIXTURE.
22. PROTECT EXISTING POOL DECK AND AJACENT AREA TILE FLOOR THROUGHOUT DEMOLITION/CONSTRUCTION. CONTRACTOR TO COVER EXISTING FLOOR TO BE AFFECTED WITH PLYWOOD FOR DURATION OF WORK.
23. REMOVE EXISTING WALL PANELS TO ABOVE NEW CEILING.
24. SELECTIVE DEMOLITION OF EXISTING BLOCK WALL. TOOTH IN OPENING TO CREATE FINISHED SURFACE FOR INSTALLATION OF NEW DOOR.
25. REMOVE EXISTING WALL AS REQUIRED FOR INSALLATION/REINSTALLATINON OF PLUMBING. SEE PLUMBING.

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FIRST FLOOR DEMOLITION PLAN

PROJECT NO. U328.13
DATE 04.30.14

DRAWING NO.
D1.1

1 D2.1 FIRST FLOOR DEMOLITION REFLECTED CEILING PLAN

1/4" = 1'-0" REFERENCED ON: A3.1

LEGEND - DEMOLITION PLAN

- EXISTING WALL TO BE DEMOLISHED
- EXSITING WALL TO REMAIN
- EXISTING DOOR TO BE DEMOLISHED
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GENERAL NOTES - DEMOLITION PLAN

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8. PROTECT EXISTING FLOORING AND CEILING TO REMAIN THROUGHOUT DEMOLITION AND NEW CONSTRUCTION.
9. SEE ELECTRICAL, MECHANICAL, PLUMBING AND STRUCTURAL DRAWINGS FOR ADDITONAL INFORMATION REGARDING THE AREAS OF THE EXISTING CONCRETE SLAB TO BE REMOVED.
10. SEE STRUCTURAL DRAWINGS FOR ADDITONAL INFORMATION REGARDING EXISTING COLUMNS AND BEAMS. PROTECT ALL EXISTING WALLS, COLUMNS, AND STRUCTURE TO REMAIN.
11. INSTALL SELF-LEVELING FLOOR MATERIAL TO ALL FLOOR AREAS THAT ARE TO BE REMOVED OR TO BE IN-FILLED WITH NEW SLABS TO ENSURE FLUSH, SMOOTH FINISH FLOOR PLANE CONDITIONS THROUGHOUT RENOVATED BUILDING.
12. CORE DRILLING IN EXISTING SLAB FOR NEW UTILITY SERVICE IS NOT SHOWN ON THIS PLAN. SEE MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR REQUIRED UTILITY ROUTING.
13. PROTECT ALL EXISTING WATERPROOFING THROUGHOUT DEMOLITION & NEW CONSTRUCTION. PHOTOGRAPH ANY DISTURBED OR DAMAGED WATERPROOFING AREAS AND NOTIFY ARCHITECT OF CONDITIONS PRIOR TO INSTALLING NEW WORK OR BACKFILLING AREAS.
14. REPAIR BOTTOM OF ALL EXISTING COLUMNS AROUND BASE OR HEAD WHEN SURROUNDING SLAB IS REMOVED. SEE SPECIFICATIONS FOR APPLICABLE SURFACE PREPARATION AND PRODUCTS TO BE UTILITIZED FOR PATCHING.
15. ITEMS TO BE SALVAGED AND REMOVED BY OWNER PRIOR TO DEMOLITION ARE IDENTIFIED WITHIN THE SPECIFICATIONS.
16. ALL CEILING AND SOFFIT CONSTRUCTION INCLUDING ELECTRICAL, MECHANICAL, FIRE PROTECTION, ETC. LOCATED WITHIN AND ABOVE CEILING CONSTRUCTION TO BE REMOVED IN THEIR ENTIRETY UNLESS NOTED OTHERWISE.
17. HAZARDOUS MATERIALS ARE PRESENT IN THE SCOPE OF DEMOLITION/CONSTRUCTION. A REPORT ON THE PRESENCE OF HAZARDOUS MATERIALS IS ON FILE FOR REVIEW. HAZARDOUS MATERIALS SHALL BE REMOVED BY OWNER AND A SCHEDULE FOR THE REMOVAL SHALL BE COORDINATED WITH OWNER AND ARCHITECT.

KEYNOTES - DEMOLITION RCP

1. DEMO EXISTING CEILING GRID AND TILES. REMOVE LIGHTING FIXTURES
2. REMOVE EXISTING LIGHT - SEE ELEC. FIELD VERIFY LOCATION AND QUANTITY OF LIGHTS TO BE REMOVED.
3. REMOVE EXISTING LAY-IN SOFFIT.
4. REMOVE EXISTING CEILING AND ALL ASSOCIATED FIXTURES - SEE ELEC., MECH., AND PLUMB. DWGS.
5. EXISTING PLASTER CEILING, FIXTURES, AND VENTS TO REMAIN.
6. REMOVE, PROTECT AND REINSTALL EXISTING CEILNG AS REQUIRED FOR MECHANICAL INSTALLATION. SEE MECHANICAL. GC TO REPLACE/PATCH ANY DAMAGED GRID/CEILING TILE DAMAGED DURING SCOPE OF WORK.
7. REMOVE, PROTECT, AND REINSTALL EXISTING METAL GRID CEILING AS REQUIRED FOR MECHANICAL INSTALLATION. SEE MECHANICAL. GC TO REPLACE ANY METAL GRID DAMAGED DURING SCOPE OF WORK.
8. EXISTING CEILING TO REMAIN. PROTECT THROUGHOUT DEMOLITION/CONSTRUCTION.

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PROJECT TITLE
SWIM TEAM LOCKER ROOM RENOVATIONS
University of South Carolina
Solomon Blatt Physical Education Center
1300 Wheat Street
Columbia, SC 29208 USC
Project No. H27-Z158

REVISIONS		
NO.	NAME	DATE

DRAWN BY: Author
CHECKED BY: Checker

DRAWING TITLE
FIRST FLOOR DEMOLITION REFLECTED CEILING PLAN

PROJECT NO. U328.13
DATE 04.30.14

DRAWING NO. D2.1

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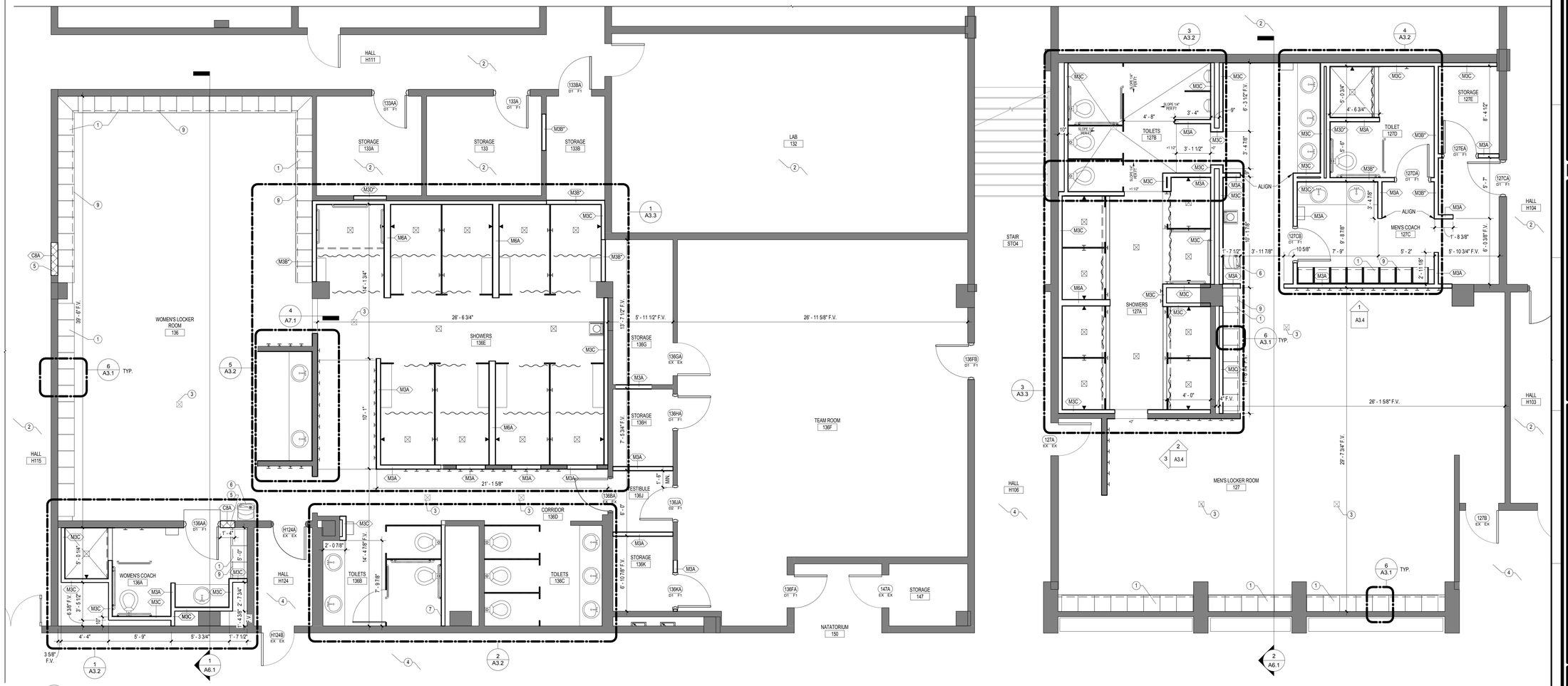


1 A1.1 FIRST FLOOR PLAN
1/4" = 1'-0" REFERENCED ON: A3.1

LEGEND - REFLECTED CEILING PLAN

- ONE-HOUR FIRE-RATED WALL ASSEMBLY
- TWO-HOUR FIRE-RATED WALL ASSEMBLY
- FOUR-HOUR FIRE-RATED WALL ASSEMBLY
- HALF-HOUR FIRE-RATED WALL ASSEMBLY

SEE PARTITION TYPES FOR UL DESIGN NO'S.

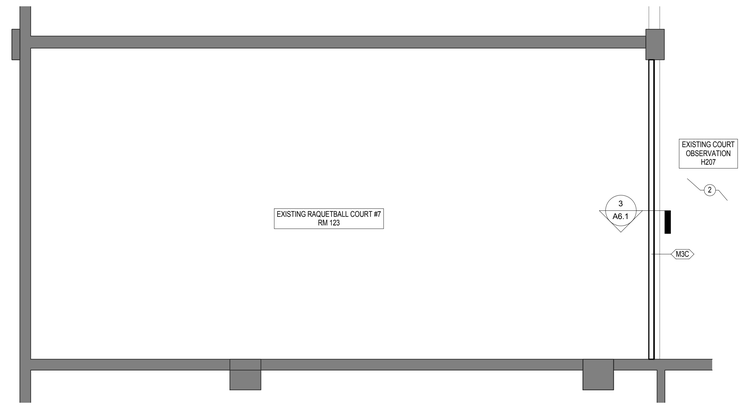
- FE-B — FIRE EXTINGUISHER MOUNTED ON WALL BRACKETS
- FD - FLOOR DRAIN
- EXSITING WALL TO REMAIN

GENERAL NOTES - FLOOR PLAN

1. SEE T1.1 FOR MINIMUM REQUIRED ADA MANEUVERING CLEARANCES. VERIFY EXACT FEB AND FEC LOCATIONS WITH ARCHITECT - CENTER FEC'S ON VERTICAL MORTAR JOINTS IN EXPOSED CMU WALLS.
2. SEE T1.1 FOR REQUIRED UL ASSEMBLIES OF ALL BUILDING SYSTEMS. ALL PENETRATIONS THROUGH RATED WALL AND FLOOR ASSEMBLIES MUST COMPLY WITH UL DESIGN FOR PENETRATIONS.
3. DIMENSIONS INDICATED ON THESE DRAWINGS ARE TO FACE OF CMU WALL, FACE OF EXTERIOR VENEER, FACE OF STUD WALL, OR CENTERLINE OF COLUMN UNLESS OTHERWISE INDICATED. DIMENSIONS INDICATED AT EXISTING WALLS ARE TO FACE OF FINISH SURFACE. COORDINATE ALL DIMENSIONS WITH STRUCTURAL DIMENSION PLANS, ENLARGED PLANS, SECTION AND DETAIL DRAWINGS, AND STRUCTURAL DRAWINGS AND VERIFY EXACT LOCATIONS. COORDINATE ALL FLOOR SLAB PENETRATIONS WITH SYSTEM DRAWINGS (S'S, M'S, P'S, AND E'S) AND ACTUAL PRODUCT TO BE INSTALLED AND VERIFY LOCATIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO INSTALLATION.
4. SEE FINISH SCHEDULES AND PLANS FOR FLOOR PATTERNS AND FLOOR FINISH REFERENCES
5. INTERIOR METAL STUD OPENINGS TO RECEIVE STOREFRONT, DOORS, GRILLS, LOUVERS, OR OTHER ELEMENTS SHALL BE FIELD VERIFIED PRIOR TO MANUFACTURE OF SYSTEM. LOCATION OF ALL RECESSED CABINETS AND EQUIPMENT WALL PENETRATIONS MUST BE VERIFIED PRIOR TO INSTALLATION OF CMU WALLS TO ENSURE INDICATED LOCATION AND EVEN COURSING. ANY CONFLICTS WITH INDICATED DIMENSIONS OR LOCATIONS SHALL BE COORDINATED WITH ARCHITECT PRIOR TO INSTALLATION.
6. ALL EXISTING COLUMNS ARE TO REMAIN.
7. PATCH ALL EXISTING HOLES IN CONCRETE STRUCTURE TO REMAIN, SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
8. HAZARDOUS MATERIALS ARE PRESENT IN THE SCOPE OF DEMOLITION/CONSTRUCTION. A REPORT ON THE PRESENCE OF HAZARDOUS MATERIALS IS ON FILE FOR REVIEW. HAZARDOUS MATERIALS SHALL BE REMOVED BY OWNER PRIOR TO THE START OF DEMOLITION/CONSTRUCTION.
9. CONTACT OWNER UPON DISCOVERY OF ANY SUSPECTED ASBESTOS-CONTAINING MATERIALS OR OTHER SUSPECTED HAZARDOUS MATERIALS NOT SHOWN TO BE REMOVED WITHIN THE PROJECT SCOPE.
10. SEE PLUMBING DWGS. FOR LOCATIONS AND DETAILS OF REINSTALLED PLUMBING FIXTURES.

KEYNOTES - FLOOR PLAN

1. NEW PHENOLIC LOCKERS - SEE DETAILS AND SPECS. PROVIDE FILLER PANELS AT ENDS OF RUNS AND CORNERS AS REQUIRED.
2. EXISTING FLOORING TO REMAIN. PROTECT THROUGHOUT DEMOLITION AND CONSTRUCTION.
3. EXISTING FLOOR DRAIN TO REMAIN.
4. EXISTING TILE POOL DECK TO REMAIN. PROTECT THROUGH OUT DEMOLITION/CONSTRUCTION. CONTRACTOR TO COVER AREA AFFECTED BY PROJECT SCOPE WITH PLYWOOD FOR DURATION OF WORK.
5. VERIFY EXISTING WALL WIDTH IN FIELD AND MATCH NEW INFILL WALL WIDTH WITH EXISTING.
6. NEW DRINKING FOUNTAIN. SEE PLUMBING.
7. INSTALL NEW WALL REMOVED FOR INSTALLATION/REINSTALLATION OF PLUMBING FIXTURES. SEE PLUMBING.
8. NEW CONCRETE CURB. SEE DETAILS AND SPECIFICATIONS.
9. NEW CONCRETE LOCKER BASE TO MATCH EXISTING.



2 A1.1 SECOND FLOOR PLAN
1/4" = 1'-0" REFERENCED ON: A2.1

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SWIM TEAM LOCKER ROOM RENOVATIONS
University of South Carolina
Solomon Blatt Physical Education Center
1300 Wheat Street
Columbia, SC 29208 USC
Project No. H27-Z158

REVISIONS NO.	NAME	DATE

DRAWN BY: Author
CHECKED BY: Checker

DRAWING TITLE
FIRST FLOOR PLAN AND SECOND FLOOR PLAN

PROJECT NO. U328.13
DATE 04.30.14
DRAWING NO. A1.1

1 A2.1 FIRST FLOOR REFLECTED CEILING PLAN
1/4" = 1'-0" REFERENCED ON: A3.1

LEGEND - REFLECTED CEILING PLAN

- AP — ACCESS PANEL - COORDINATE LOCATIONS WITH ARCHITECT
- SUPPLY & RETURN MECHANICAL DIFFUSERS
- LINEAR SLOT DIFFUSER
- FLOURESCENT FIXTURES
- RECESSED INCANDESCENT DOWNLIGHT
- LIGHT FIXTURE
- SP — SPEAKER
- EXIT LIGHTS
- GYPSUM BOARD CEILING
- APC-1,2 - ACOUSTICAL PANELS AND SUSPENSION SYSTEM FOR CEILINGS
- 12' - 8" — CEILING HEIGHTS
- PLASTER CEILING
- CJ — CONTROL JOINT
- CEILING MOUNTED FAN

GENERAL NOTES - REFLECTED CEILING PLAN

1. REFER TO ELECTRICAL DRAWINGS FOR QUANTITY AND SPECIFIC FIXTURE DESIGNATIONS.
2. ALL SUSPENDED ACOUSTICAL GRIDS ARE TO BE CENTERED IN CEILING/ROOM AS SHOWN, UNLESS NOTED OTHERWISE.
3. CEILING MOUNTED EQUIPMENT, DEVICES, FIXTURES & GRILLS MUST BE COORDINATED ON REFLECTED CLG. PLANS. CEILING MOUNTED SPRINKLERS TO BE LOCATED IN CENTER OF CEILING TILE IN APC CEILINGS OR IN CENTER OF GRID OPENING IN OPEN-CELL CEILING SYSTEMS.
4. SEE FP DRAWINGS FOR FIRE PROTECTION SYSTEM LAYOUT. COORDINATE ROUTING OF PIPING W/ ARCHITECTURAL DWGS AND DETAILS AS WELL AS ALL OTHER SYSTEM DRAWINGS (Ss, M's, P's, & E's). SUBMIT LAYOUT/COORDINATION DRAWING FOR REVIEW & APPROVAL PRIOR TO INSTALLATION.
5. PAINT ALL EXPOSED STRUCTURE/CEILING AREA, INCLUDING ROOF DECK, CONCRETE STRUCTURE, DUCTWORK, PLUMBING LINES, FIRE SUPPRESSION LINES, ELEC. CONDUITS & BOXES AND OTHER NON-FINISHED ITEMS UNLESS NOTED OTHERWISE ON FINISH SCHEDULES AND INTERIOR ELEVATIONS.
6. PAINT ALL EXPOSED STEEL LINTELS, ANGLES AND PLATES.
7. REFERENCE ELECTRICAL DRAWINGS FOR FULL EXTENT OF ELECTRICAL CEILING AND WALL MOUNTED DEVICES.

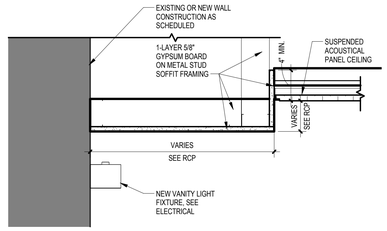
FIRST FLOOR RCP KEYNOTES

1. PAINT ALL CEILING SURFACES AND UNDERSIDE OF STAIR. SEE FINISH SCHEDULES AND SCHEDULE OF INTERIOR FINISHES.
2. EXISTING LIGHT TO REMAIN - SEE ELECTRICAL DWGS.
3. EXISTING CEILING TO REMAIN.
4. TEMPORARY REMOVAL OF ACT TILE IN CEILING MAY BE REQUIRED FOR ACCESS TO UTILITIES. PROTECT ACT TILE THROUGHOUT DEMOLITION AND CONSTRUCTION AND PUT ANY REMOVED EXISTING TILES BACK IN PLACE AT END OF CONSTRUCTION.
5. REMOVE, PROTECT, AND REINSTALL EXISTING METAL GRID CEILING AS REQUIRED FOR MECHANICAL INSTALLATION. SEE MECHANICAL GC TO REPLACE ANY METAL GRID DAMAGED DURING SCOPE OF WORK.
6. REMOVE, PROTECT AND REINSTALL EXISTING CEILING AS REQUIRED FOR MECHANICAL INSTALLATION. SEE MECHANICAL GC TO REPLACE/PATCH ANY DAMAGED GRID/CEILING TILE DAMAGED DURING SCOPE OF WORK.

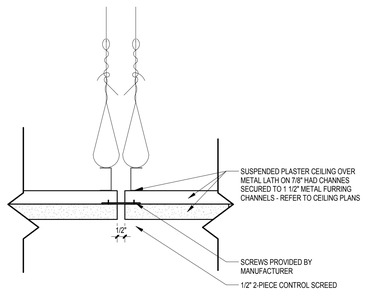
ALTERNATE NO. 1

7A CONCAVE, 60 DEG ARC 'DAC': 2'-0" X 5'-0" ARMSTRONG INFUSIONS ACCENT CANOPY, OR APPROVED EQUAL - SEE DRAWINGS AND SPECS. COORDINATE EXACT LOCATION WITH ARCHITECT IN FIELD.

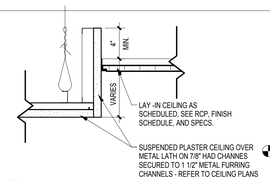
7B CONVEX, 60 DEG ARC 'DAC': 2'-0" X 5'-0" ARMSTRONG INFUSIONS ACCENT CANOPY, OR APPROVED EQUAL - SEE DRAWINGS AND SPECS. COORDINATE EXACT LOCATION WITH ARCHITECT IN FIELD.



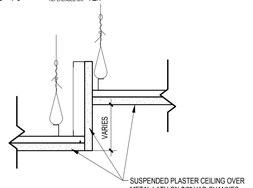
2 A2.1 CEILING DETAIL - TYPICAL VANITY DETAIL
1 1/2" = 1'-0" REFERENCED ON: A2.1



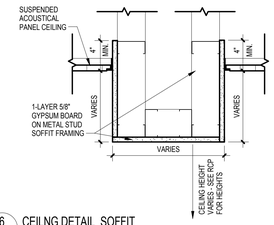
3 A2.1 CEILING DETAIL - TYPICAL PLASTER CONTROL JOINT
3" = 1'-0" REFERENCED ON: A2.1



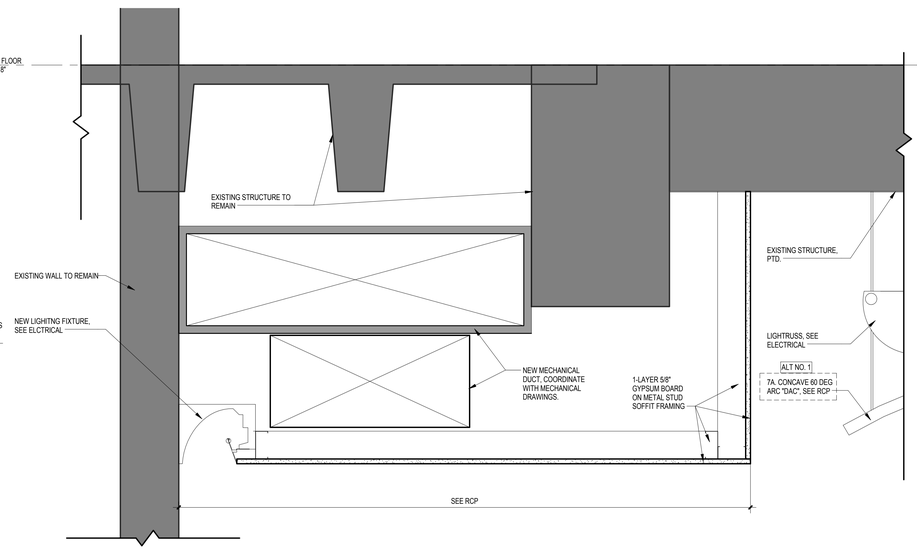
4 A2.1 CEILING DETAIL_COACHES SHOWER
1 1/2" = 1'-0" REFERENCED ON: A2.1



5 A2.1 CEILING DETAIL_MENS SHOWER
1 1/2" = 1'-0" REFERENCED ON: A2.1



6 A2.1 CEILNG DETAIL_SOFFIT
1 1/2" = 1'-0" REFERENCED ON: A2.1



7 A2.1 CEILING DETAIL - TEAM ROOM
1 1/2" = 1'-0" REFERENCED ON: A2.1

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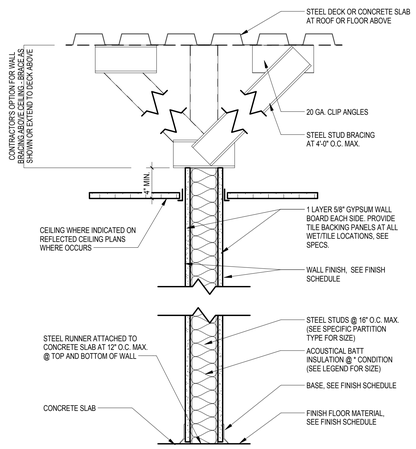
PROJECT TITLE
SWIM TEAM LOCKER ROOM RENOVATIONS
University of South Carolina
Solomon Blatt Physical Education Center
1300 Wheat Street
Columbia, SC 29208 USC
Project No. H27-Z158

NO.	NAME	DATE
	REVISIONS	

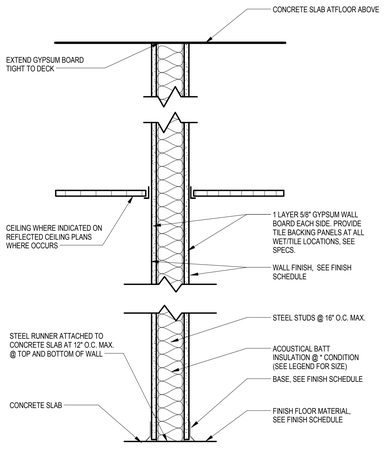
DRAWN BY: Author
CHECKED BY: Checker

DRAWING TITLE
FIRST FLOOR REFLECTED CEILING PLAN

PROJECT NO. U338.13
DATE 04.30.14
DRAWING NO. A2.1



M#A INTERIOR PARTITION
1 1/2" = 1'-0"



M#B INTERIOR PARTITION
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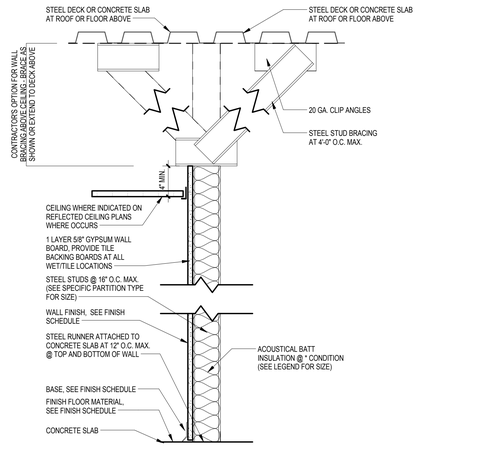

M#C INTERIOR PARTITION
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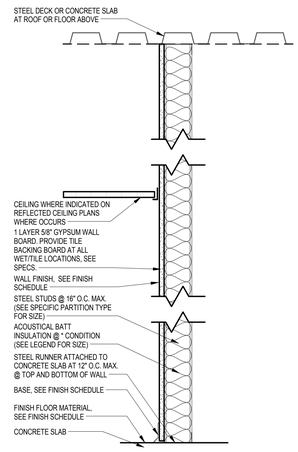
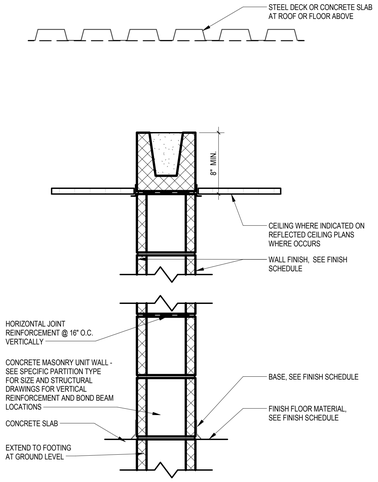


M#D INTERIOR PARTITION
1 1/2" = 1'-0"

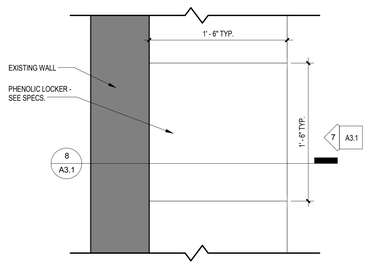
LEGEND - PARTITION TYPES

MATERIAL (SEE CHART BELOW) — M2A — FINISH CONSTRUCTION (SEE PARTITION SECTION)
SIZE (SEE CHART BELOW) — INSULATION DESIGNATION

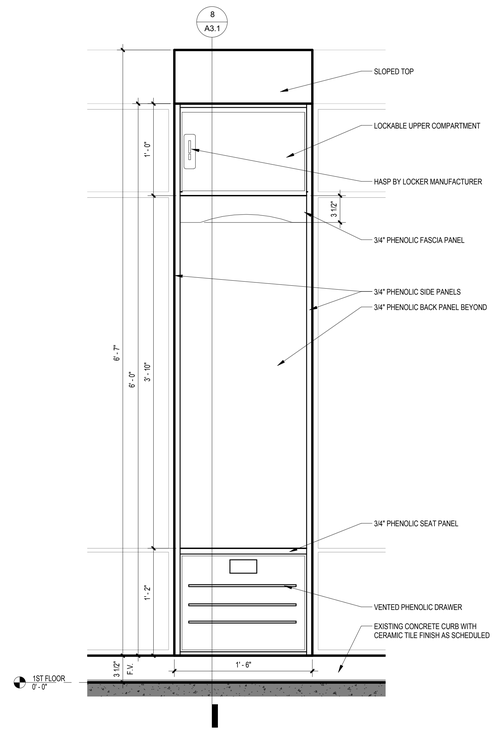
M1	1-1/2" METAL STUD
M2	2-1/2" METAL STUD
M3	3-5/8" METAL STUD
M4	4" METAL STUD
M6	6" METAL STUD
M8	8" METAL STUD
W2	2X2" WOOD STUD
W4	2X4" WOOD STUD
W6	2X6" WOOD STUD
W8	2X8" WOOD STUD
C4	4" CMU (3-5/8" NOM.)
C8	8" CMU (7-5/8" NOM.)
C12	12" CMU (11-5/8" NOM.)
SZ	2" C-H STUD (SHAFT WALL)



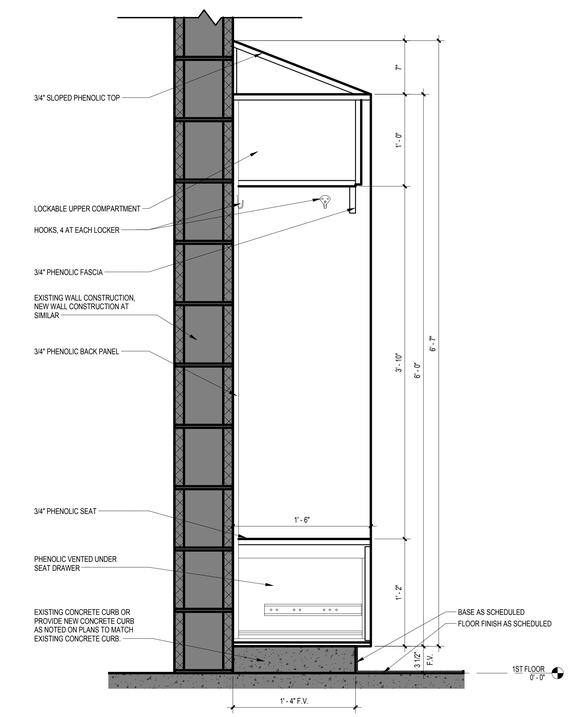
C#A INTERIOR PARTITION
1 1/2" = 1'-0"



6 A3.1 ENLARGED PLAN - TYPICAL LOCKER
1 1/2" = 1'-0" REFERENCED ON: A1.1



7 A3.1 ELEVATION - TYPICAL LOCKER
1 1/2" = 1'-0" REFERENCED ON: A3.1



8 A3.1 SECTION DETAIL - TYPICAL LOCKER
1 1/2" = 1'-0" REFERENCED ON: A3.1

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REVISIONS

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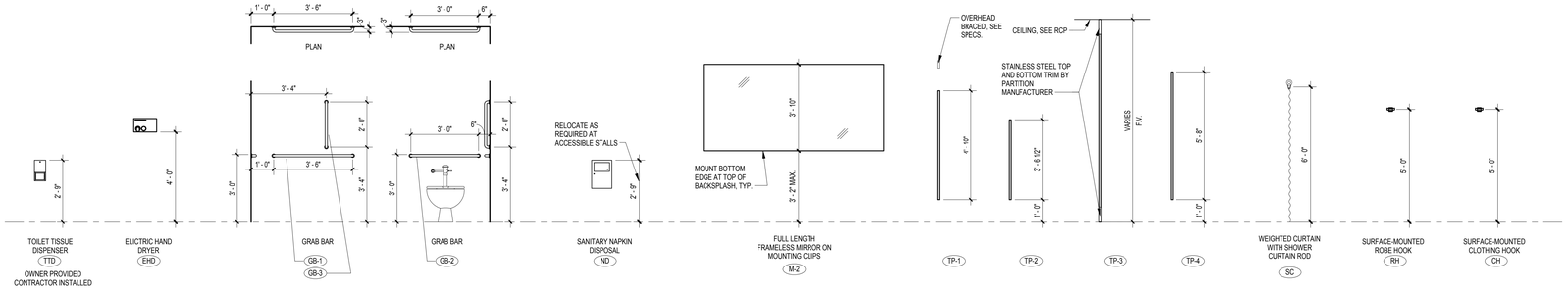
DRAWING TITLE
PARTITION TYPES AND LOCKER DETAILS

PROJECT NO. U328.13
DATE 04.30.14
DRAWING NO. A3.1



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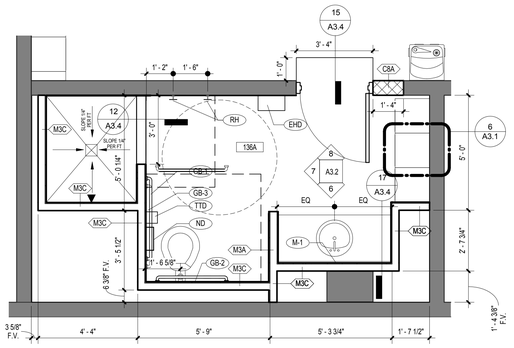
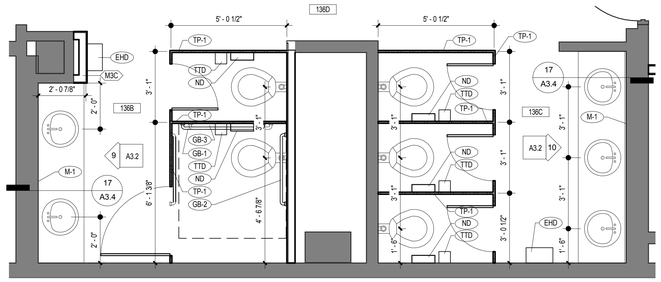
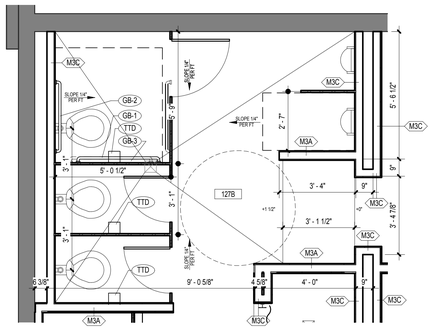


1 A3.2 ENLARGED PLAN
3/8" = 1'-0" REFERENCED ON: A1.1



2 A3.2 ENLARGED PLAN
3/8" = 1'-0" REFERENCED ON: A1.1



3 A3.2 ENLARGED PLAN
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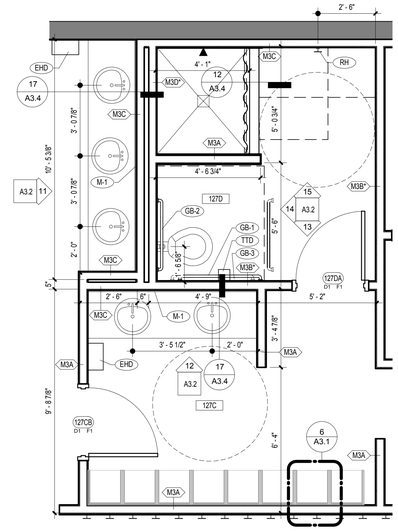

4 A3.2 ENLARGED PLAN
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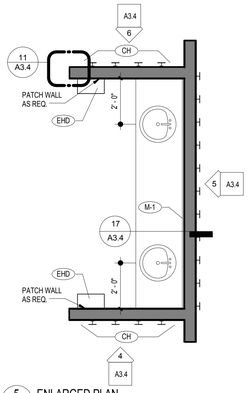

5 A3.2 ENLARGED PLAN
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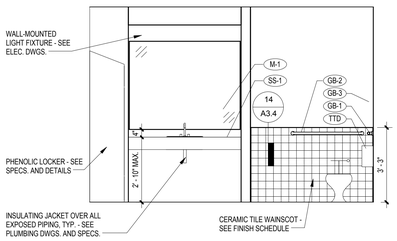
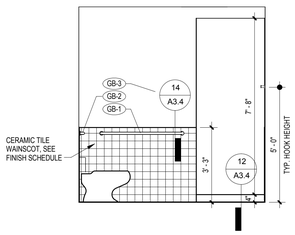
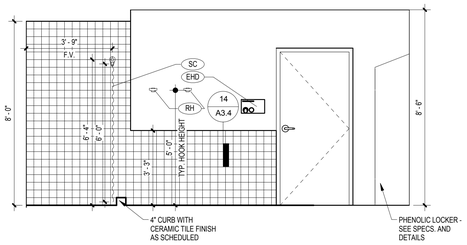


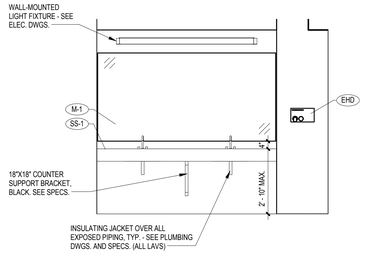
6 A3.2 INTERIOR ELEVATION
3/8" = 1'-0" REFERENCED ON: A3.2



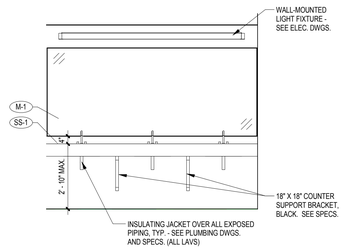
7 A3.2 INTERIOR ELEVATION
3/8" = 1'-0" REFERENCED ON: A3.2



8 A3.2 INTERIOR ELEVATION
3/8" = 1'-0" REFERENCED ON: A3.2



9 A3.2 INTERIOR ELEVATION
3/8" = 1'-0" REFERENCED ON: A3.2



10 A3.2 INTERIOR ELEVATION
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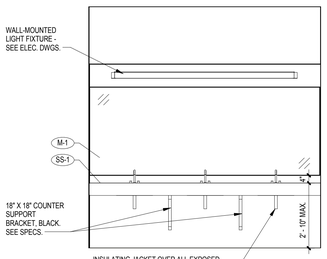
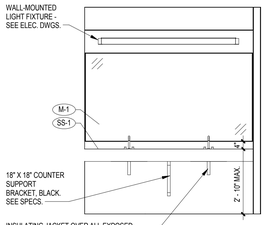


11 A3.2 INTERIOR ELEVATION
3/8" = 1'-0" REFERENCED ON: A3.2



12 A3.2 INTERIOR ELEVATION
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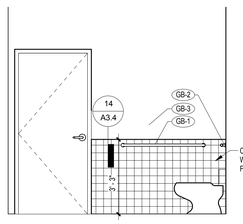
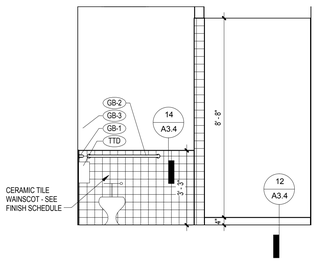
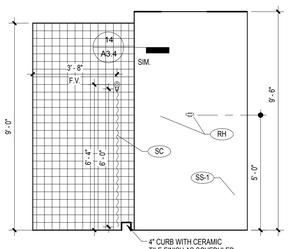


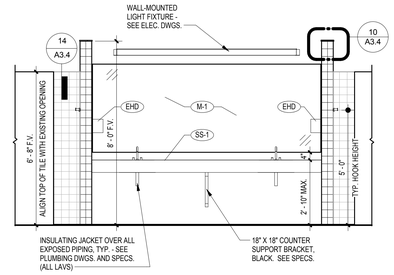
13 A3.2 INTERIOR ELEVATION
3/8" = 1'-0" REFERENCED ON: A3.2



14 A3.2 INTERIOR ELEVATION
3/8" = 1'-0" REFERENCED ON: A3.2



15 A3.2 INTERIOR ELEVATION
3/8" = 1'-0" REFERENCED ON: A3.2



16 A3.2 INTERIOR ELEVATION
3/8" = 1'-0" REFERENCED ON: A3.3

5/1/2014 3:47:31 PM

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PROJECT TITLE
SWIM TEAM LOCKER ROOM RENOVATIONS
University of South Carolina
Solomon Blatt Physical Education Center
1300 Wheat Street
Columbia, SC 29208 USC
Project No. H27-Z158

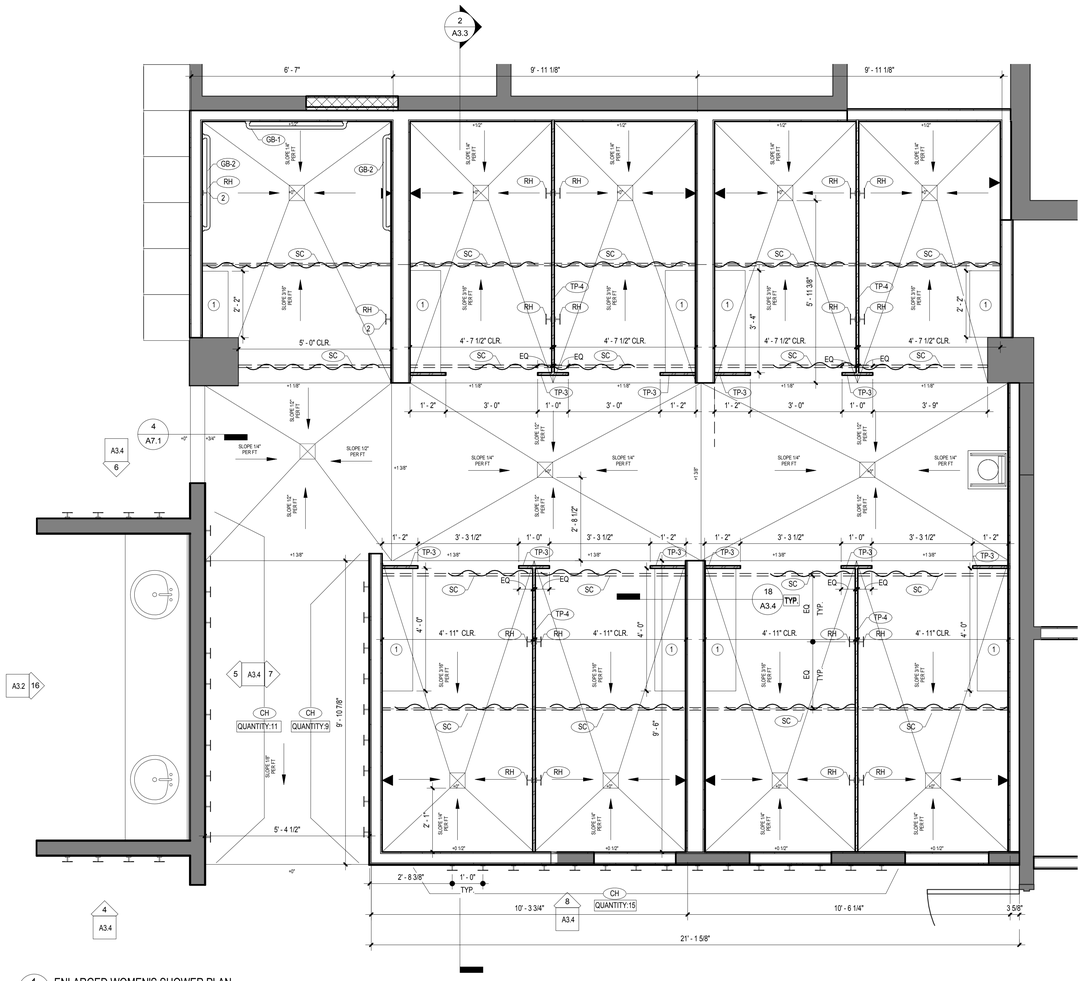
REVISIONS

NO.	NAME	DATE

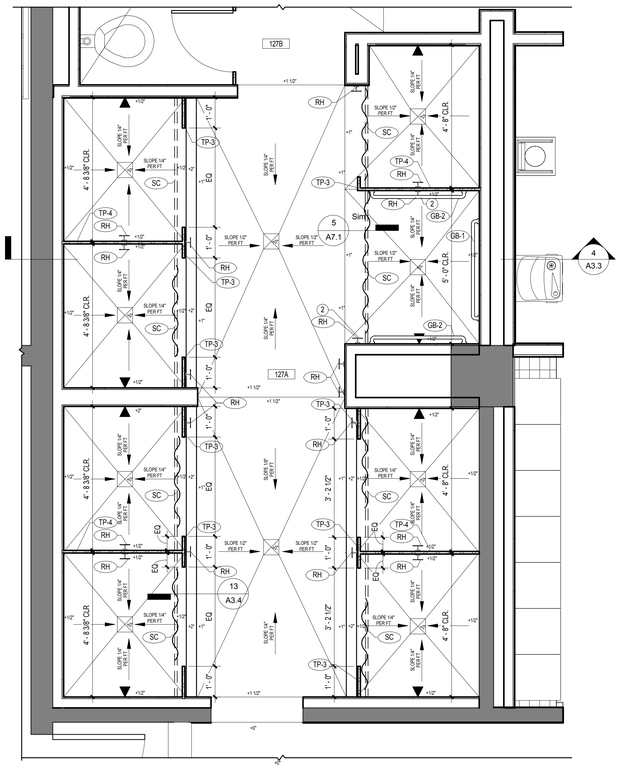
DRAWN BY: Author
CHECKED BY: Checker

DRAWING TITLE
ENLARGED PLANS AND INTERIOR ELEVATIONS

PROJECT NO. U328.13
DATE 04.30.14
DRAWING NO. A3.2



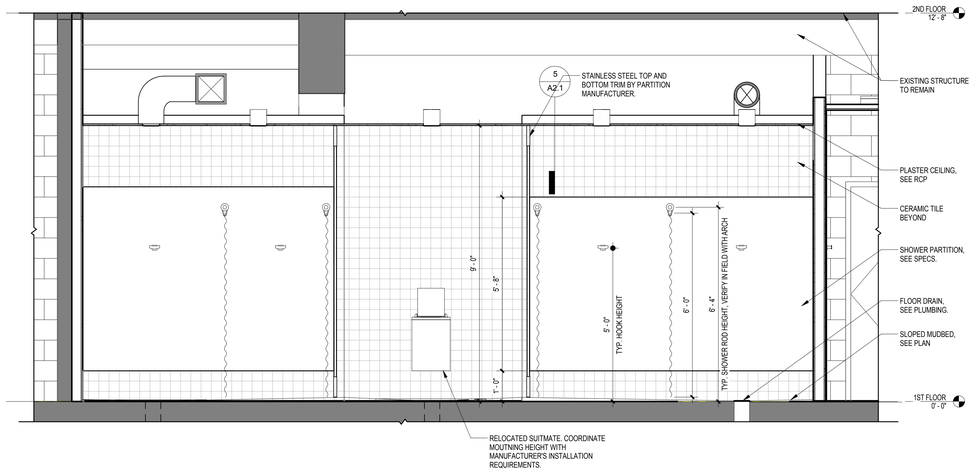
1 A3.3 ENLARGED WOMEN'S SHOWER PLAN
1/2" = 1'-0" REFERENCED ON: A1.1



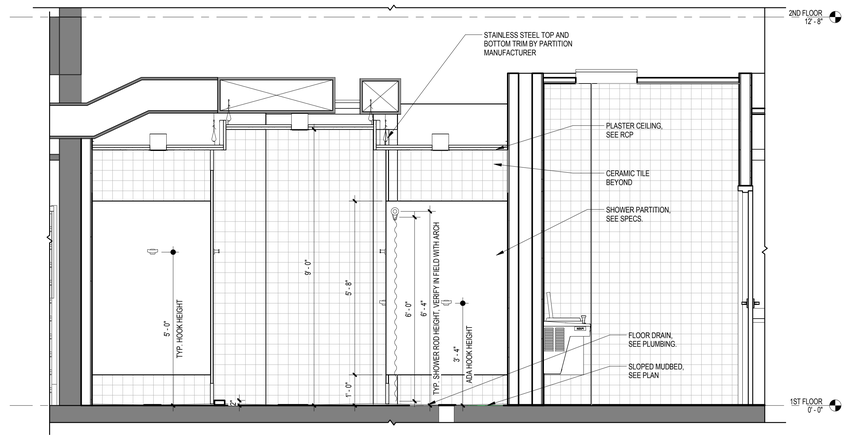
3 A3.3 ENLARGED MEN'S SHOWER PLAN
1/2" = 1'-0" REFERENCED ON: A1.1

FIRST FLOOR RCP KEYNOTES

1. SOLID SURFACE BENCH, SEE DETAILS AND SPECS.
2. ROBE HOOK MOUNTING HEIGHT TO BE 3'-4" AT ADA ROLL-IN ACCESSIBLE SHOWER STALLS.



2 A3.3 SECTION AT WOMEN'S SHOWER AREA
1/2" = 1'-0" REFERENCED ON: A3.3



4 A3.3 SECTION _MEN'S SHOWERS
1/2" = 1'-0" REFERENCED ON: A3.3

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SWIM TEAM LOCKER ROOM RENOVATIONS
University of South Carolina
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1300 Wheat Street
Columbia, SC 29208 USC
Project No. H27-Z158

REVISIONS

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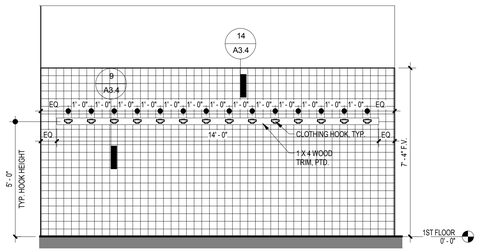
DRAWN BY: Author
CHECKED BY: Checker

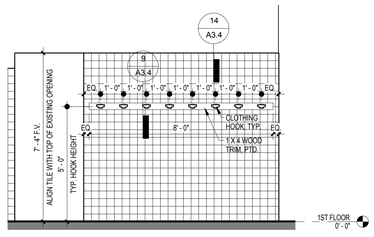
DRAWING TITLE
ENLARGED PLANS AND INTERIOR ELEVATIONS

PROJECT NO. U329.13
DATE 04.30.14

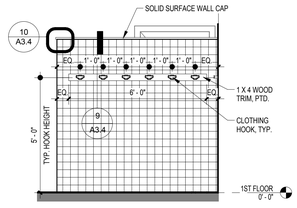
DRAWING NO.
A3.3



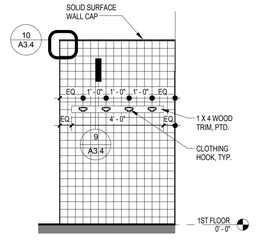
1 A3.4 INTERIOR ELEVATION
3/8" = 1'-0" REFERENCED ON: A1.1



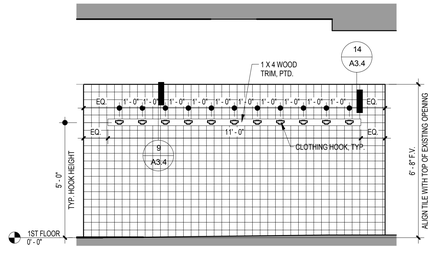
2 A3.4 INTERIOR ELEVATION
3/8" = 1'-0" REFERENCED ON: A1.1



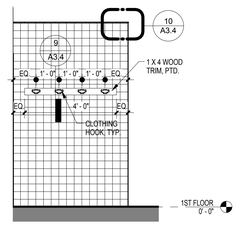
3 A3.4 INTERIOR ELEVATION
3/8" = 1'-0" REFERENCED ON: A1.1



4 A3.4 INTERIOR ELEVATION
3/8" = 1'-0" REFERENCED ON: A3.2



5 A3.4 INTERIOR ELEVATION
3/8" = 1'-0" REFERENCED ON: A3.2



6 A3.4 INTERIOR ELEVATION
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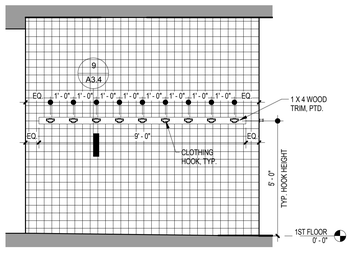

7 A3.4 INTERIOR ELEVATION
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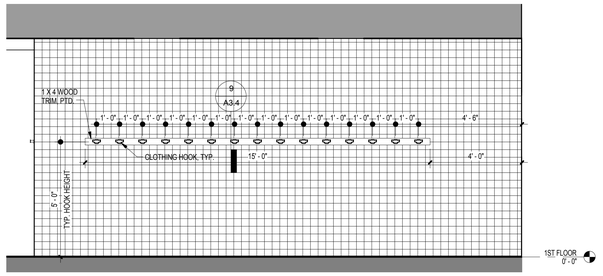
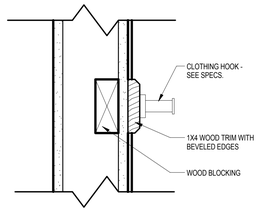
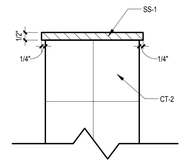


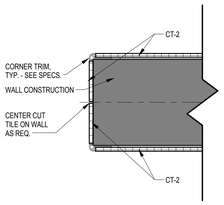
8 A3.4 INTERIOR ELEVATION
3/8" = 1'-0" REFERENCED ON: A3.3



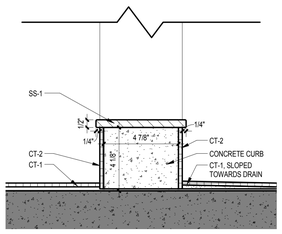
9 A3.4 TYP. ROBE HOOK DETAIL
3" = 1'-0" REFERENCED ON: A3.4



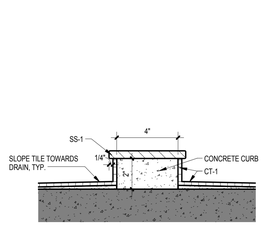
10 A3.4 WALL CAP DETAIL
3" = 1'-0" REFERENCED ON: A3.2



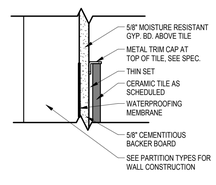
11 A3.4 TYP. WALL DETAIL AT OUTSIDE CORNERS
3" = 1'-0" REFERENCED ON: A3.2



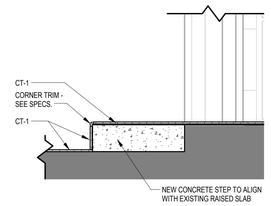
12 A3.4 SECTION DETAIL - SHOWER CURB
3" = 1'-0" REFERENCED ON: A3.2



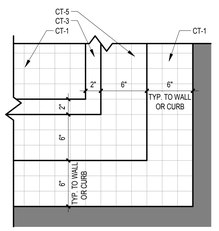
13 A3.4 SECTION DETAIL - SHOWER CURB
3" = 1'-0" REFERENCED ON: A3.3



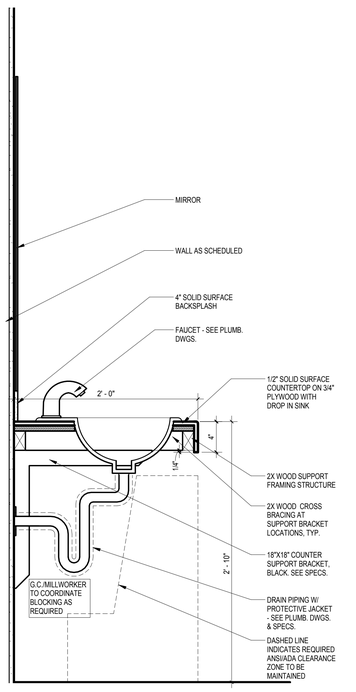
14 A3.4 TYP. WALL CAP DETAIL AT EXPOSED EDGE CONDITIONS
3" = 1'-0" REFERENCED ON: A3.2



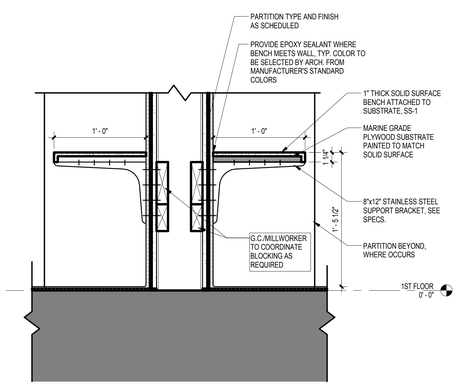
15 A3.4 SECTION @ WOMEN'S COACH LOCKER ROOM
1 1/2" = 1'-0" REFERENCED ON: A3.2



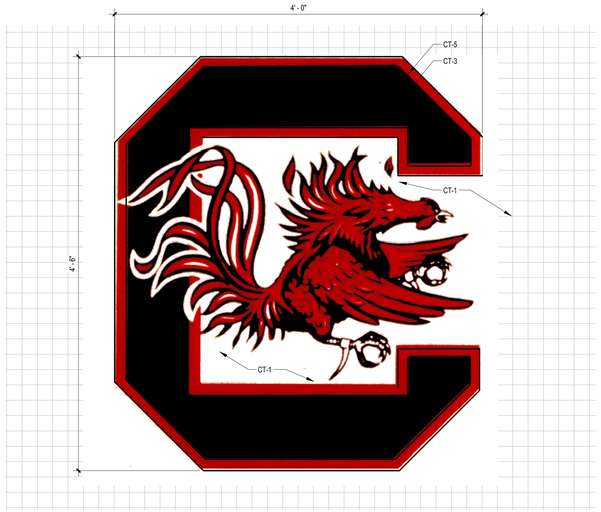
16 A3.4 ENLARGED FLOOR TILE PLAN
1 1/2" = 1'-0" REFERENCED ON: A8.1



17 A3.4 TYP. VANITY COUNTER SECTION
1 1/2" = 1'-0" REFERENCED ON: A3.2



18 A3.4 SECTION DETAIL - BENCH
1 1/2" = 1'-0" REFERENCED ON: A3.3



19 A3.4 ENLARGED PLAN - CERAMIC TILE DETAIL
1 1/2" = 1'-0" REFERENCED ON: A8.1

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REVISIONS		
NO.	NAME	DATE

DRAWN BY: Author
CHECKED BY: Checker

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INTERIOR ELEVATIONS AND DETAILS

PROJECT NO. U328.13
DATE 04.30.14
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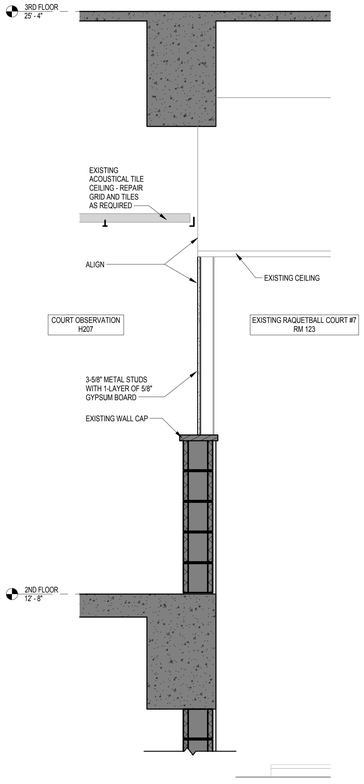
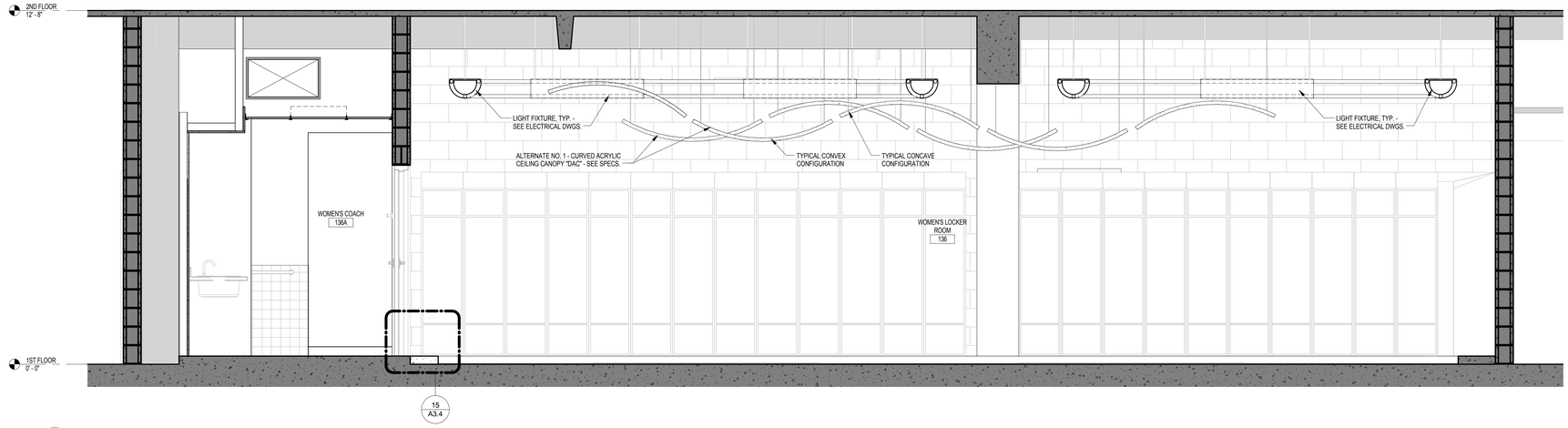
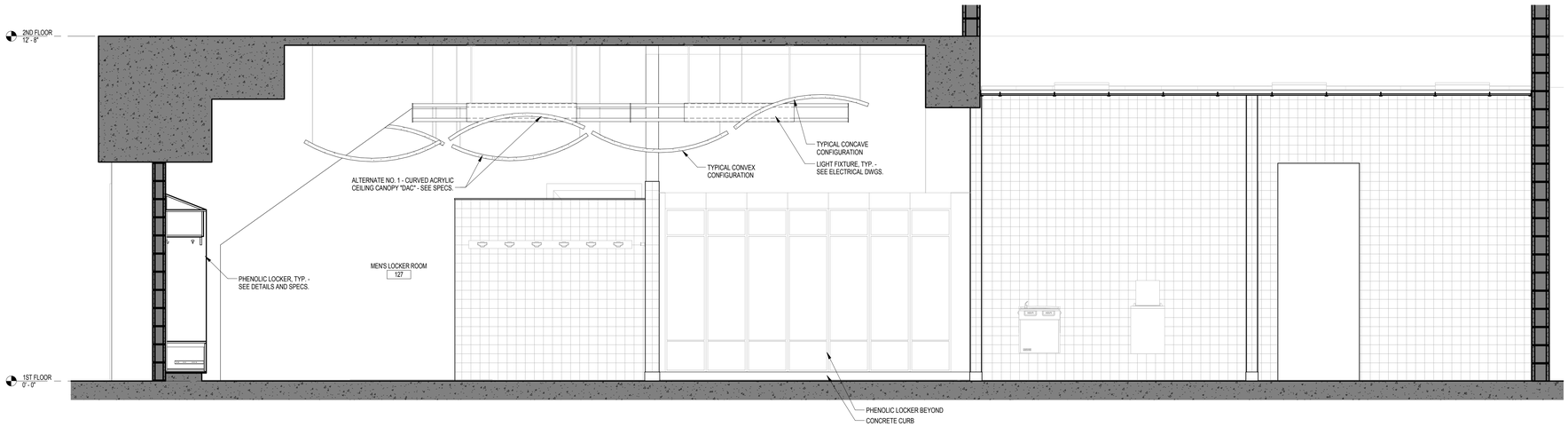


3 A6.1 WALL SECTION
3/4" = 1'-0" REFERENCED ON: A1.1



1 A6.1 BUILDING SECTION AT WOMEN'S LOCKER ROOM
1/2" = 1'-0" REFERENCED ON: A1.1



2 A6.1 BUILDING SECTION AT MEN'S LOCKER ROOM
1/2" = 1'-0" REFERENCED ON: A1.1

5/1/2014 3:47:54 PM

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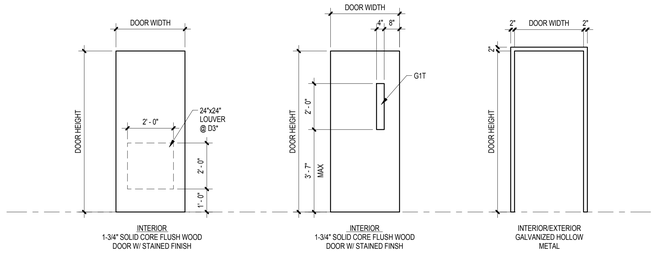
CHECKED BY: Checker

DRAWING TITLE
BUILDING SECTIONS

PROJECT NO. U328.13
DATE 04.30.14

DRAWING NO.
A6.1

DOOR SCHEDULE										
MARK	WIDTH	HEIGHT	DOOR TYPE	FRAME TYPE	HEAD	JAMB	SILL	RATING	HDWR	REMARKS
127A	3' - 0"	7' - 0"	EX	EX						
127B	3' - 0"	7' - 0"	EX	EX						
127CA	3' - 0"	7' - 0"	D1	F1	H1	J1				
127CB	3' - 0"	7' - 0"	D1	F1	H3	J2				
127DA	3' - 0"	7' - 0"	D1	F1	H3	J2				
127EA	3' - 0"	7' - 0"	D1	F1	H3	J2				
133A	3' - 0"	7' - 0"	D1	F1	H2	J1				
133AA	3' - 0"	7' - 0"	D1	F1	H2	J1				
133BA	3' - 0"	7' - 0"	D1	F1	H1	J1				
136AA	3' - 0"	6' - 8"	D1	F1	H2	J1				
136BA	3' - 0"	7' - 0"	EX	EX						
136FA	3' - 0"	7' - 0"	D1	F1						
136FB	3' - 0"	7' - 0"	D1	F1	H2	J1				
136GA	3' - 0"	7' - 0"	EX	EX						
136HA	3' - 0"	7' - 0"	D1	F1	H3	J2				
136JA	3' - 0"	7' - 0"	D2	F1	H3	J2				
136KA	3' - 0"	7' - 0"	D1	F1	H3	J2				
147A	3' - 0"	7' - 0"	EX	EX						
H124A	3' - 0"	7' - 0"	EX	EX						
H124B	3' - 0"	7' - 0"	EX	EX						
H124D	3' - 0"	7' - 0"	EX	EX	H1	J1				

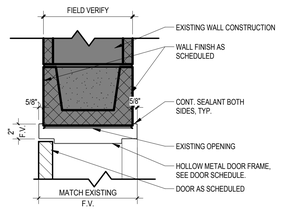


DOOR/ FRAME TYPES

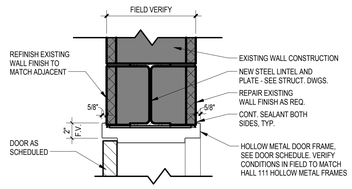
LEGEND - GLAZING TYPES

GLASS TYPE	DISCRIPTION
G1	1/4-INCH CLASS 1 CLEAR FLOAT GLASS
G1T	SAME AS G1 WITH 1/4" TEMPERED GLAZING

NOTES:
1. SEE SPECIFICATIONS FOR ADDITIONAL GLASS TYPE INFORMATION.
2. PROVIDE SAFETY OR TEMPERED GLASS WHERE REQUIRED BY CURRENT INTERNATIONAL BUILDING CODE.



H1 HEAD SECTION DETAIL
A7.1 1 1/2" = 1'-0" REFERENCED ON:



H2 HEAD SECTION DETAIL
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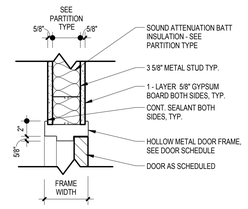
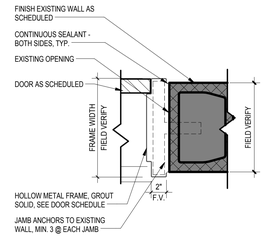
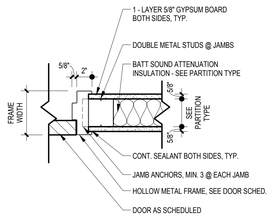


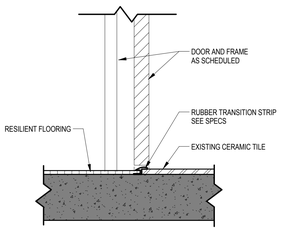
H3 HEAD SECTION DETAIL
A7.1 1 1/2" = 1'-0" REFERENCED ON:



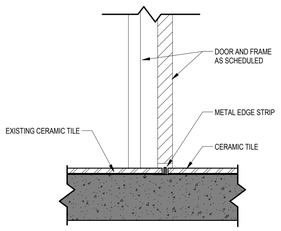
J1 JAMB PLAN DETAIL
A7.1 1 1/2" = 1'-0" REFERENCED ON:



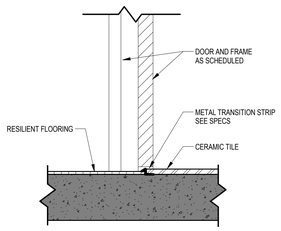
J2 JAMB PLAN DETAIL
A7.1 1 1/2" = 1'-0" REFERENCED ON:



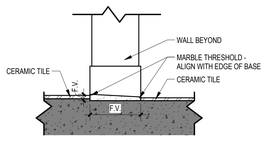
1 FT1
A7.1 1 1/2" = 1'-0" REFERENCED ON: A8.1



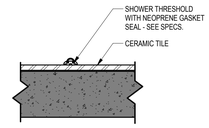
2 FT2
A7.1 1 1/2" = 1'-0" REFERENCED ON: A8.1



3 FT3
A7.1 1 1/2" = 1'-0" REFERENCED ON: A8.1



4 FT4
A7.1 1 1/2" = 1'-0" REFERENCED ON: A1.1



5 FT5
A7.1 1 1/2" = 1'-0" REFERENCED ON: A3.3

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PROJECT TITLE
SWIM TEAM LOCKER ROOM RENOVATIONS
University of South Carolina
Solomon Blatt Physical Education Center
1300 Wheat Street
Columbia, SC 29208 USC
Project No. H27-Z158

REVISIONS

NO.	NAME	DATE

DRAWN BY: Author
CHECKED BY: Checker

DRAWING TITLE
DOORS SCHEDULE, DOOR TYPES AND DETAILS

PROJECT NO. U328.13
DATE 04.30.14

DRAWING NO.
A7.1

1 A8.1 FIRST FLOOR PLAN
1/4" = 1'-0" REFERENCED ON: A3.1

FINISH SCHEDULE - LOCKER ROOMS/TEAM ROOM

ROOM NO.	ROOM NAME	BASE	FLOOR	WALL FINISH NORTH	WALL FINISH EAST	WALL FINISH SOUTH	WALL FINISH WEST	CEILING	COMMENTS
127	MEN'S LOCKER ROOM	CTB-1	CT-1,3,5,RF-2	CT-2,P-1	P-1	P-1	P-1	EXP STR/P-1, AC	2,7
127A	SHOWERS	CTB-1	CT-1	CT-2,4	CT-2,4	CT-2,4	CT-2,4	APC-1,PL/P-1,GB/P-1	
127B	TOILETS	CTB-1	CT-1	CT-2	P-1	CT-2	CT-2	APC-1,PL/P-1,GB/P-1	
127C	MEN'S COACH	CTB-1	CT-1	P-2	P-2	P-2	P-2	APC-1,GB/P-1	2
127D	TOILET	CTB-1	CT-1	CT-2,P-2	P-2	CT-2,P-2	CT-2,P-2	APC-1,PL/P-1,GB/P-1	7
127E	STORAGE	CTB-1	CT-1	P-1	P-1	P-1	P-1	APC-2	
133	STORAGE	--	--	--	--	--	--	EXP STR	
133A	STORAGE	--	--	--	--	--	--	EXP STR	
133B	STORAGE	--	--	--	--	--	--	--	
136	WOMEN'S LOCKER ROOM	CTB-1	CT-1,3,5,RF-2	P-1	P-1	P-1	P-1	EXP STR/P-1, AC	2,5,7
136A	WOMEN'S COACH	CTB-1	CT-1	P-2,CT-2	P-2	P-2,CT-2	P-2,CT-2	APC-1,PL/P-1,GB/P-1	2,7
136B	TOILETS	CTB-1	CT-1	P-1	CT-4	P-1	P-1	APC-1	
136C	TOILETS	CTB-1	CT-1	P-1	P-1	P-1	CT-4	APC-1	
136D	CORRIDOR	CTB-1	CT-1	CT-2	P-1	CT-4,P-1	CT-2,P-1	APC-1	
136E	SHOWERS	CTB-1	CT-1	CT-2	CT-4,P-1	CT-2	CT-4,P-1	APC-1,PL/P-1	7
136F	TEAM ROOM	RB-1	RF-1	P-2, WG*	P-2	P-2	P-2	APC-2	3
136G	STORAGE	RB-1	RF-1	P-2	P-2	P-2	P-2	APC-2	
136H	STORAGE	RB-1	RF-1	P-2	P-2	P-2	P-2	APC-2	
136J	VESTIBULE	RB-1	RF-1	P-2	P-2	P-2	P-2	APC-2	
136K	STORAGE	RB-1	RF-1	P-2	P-2	P-2	P-2	APC-2	
150	NATATORIUM	--	--	--	--	--	--	--	
H103	HALL	--	--	--	--	--	--	--	8
H104	HALL	--	--	--	--	--	P-EX	--	6,8
H106	HALL	--	--	--	--	--	P-EX	--	6,8
H111	HALL	--	--	--	--	P-EX	--	--	6,8
H115	HALL	--	--	--	P-EX	--	--	--	6,8
H124	HALL	--	EX CT-1	P-1	P-1	P-1	P-1	APC-1	
STO4	STAIR	--	--	--	--	--	--	--	

SCHEDULED INTERIOR FINISHES

ABBREVIATION	DESCRIPTION	MANUFACTURER, COLOR, STYLE
BASE		
CTB-1	CERAMIC TILE BASE, COVED	AMERICAN OLEAN, 4X 6 GLOSS BLACK #0049
RB-1	RESILIENT BASE	JOHNSONITE RECESS WALL BASE, COLOR # 40 BLACK
FLOORS		
RSF-1	RESILIENT FLOORING	FORBO, FLOTEX CALGARY #290010 ASH
RSF-2	RESILIENT FLOORING-AREA RUGS	FORBO, FLOTEX SENYA, #234049 RED
CT-1	CERAMIC TILE - GREY SPECKLED	AMERICAN OLEAN, 2X2 MOSAIC, COLOR: A04 LIGHT SMOKE SPECKLED
CT-3	CERAMIC TILE - BLACK	AMERICAN OLEAN, 2X2 MOSAIC, COLOR: A34 BLACK
CT-5	CERAMIC TILE - GARNET	AMERICAN OLEAN, 2X2 MOSAIC, COLOR: A42 CINNABAR
WALLS		
CT-2	CERAMIC TILE	AMERICAN OLEAN, 4X4 CERAMIC, COLOR: 0095 SNOW MIST
CT-4	CERAMIC TILE	AMERICAN OLEAN, 4X4 CERAMIC, COLOR: Q072 POMEGRANATE
P-1	PAINT - "WHITE" - EGGSHELL: FLAT (CEILINGS)	TO MATCH SHERWIN WILLIAMS SW7627 "ZURICH WHITE"
P-2	PAINT - "GRAY" - EGGSHELL	TO MATCH SHERWIN WILLIAMS SW7015 "REPOSE GRAY"
P-3	PAINT - "GARNET" - SEMI-GLOSS	TO MATCH SHERWIN WILLIAMS SW7593 "CRABBY APPLE"
P-4	PAINT - "BLACK"-SEMI-GLOSS(TRIM); -FLAT (CEILINGS)	TO MATCH SHERWIN WILLIAMS SW6258 "TRICORN BLACK"
P-5	PAINT - "EX. GARNET"-SEMI-GLOSS	TO MATCH SHERWIN WILLIAMS SW6328 FIREWEED
CEILINGS		
APC-1	MOISTURE GUARD CEILING TILE	ARMSTRONG CERAMAGUARD, #607 OR APPROVED EQ.
APC-2	STANDARD CEILING TILE	ARMSTRONG GEORGIAN, #764 OR APPROVED EQ.
DAC	DECORATIVE ACCENT CANOPIES	ARMSTRONG INFUSIONS #54051 24X60 ARC PANEL, 54052, CABLES-CHANNELED CARIBBEAN
PL	PLASTER	PLASTER CEILING, PAINTED, P-1, SEE SPEC.
CASEWORK		
SS-1	SOLID SURFACE LAVS AND CAPS	WILSONART GIBRALTAR - STARDUST SPECTRA #9098ST
SS-2	SOLID SURFACE THRESHOLDS	WILSONART GIBRALTAR- PARIS FOG #9110CS
SP	SOLID PHENOLIC-FACE/CORE	MFR. STD. BLACK
MISCELLANEOUS		
HMP	HOLLOW METAL(FRAMES)-PAINTED	PAINT TO MATCH P-4 "BLACK"--INCLUDES ALL DOORS TO RENOVATED SCOPE
WG	WALL GRAPHIC	INSTALLED BY OTHERS, N.I.C., PAINT EG-SHEL BENEATH
TP	TOILET PARTITIONS	SCRANTON PRODUCTS, SOLID PLASTIC, COLOR: BURGUNDY OR APP'D EQ COLOR

COMMENTS

1. PAINT ALL CEILING SURFACES, EXPOSED DUCTS AND CONDUIT, P-1.
2. PAINT WALLS TO RECEIVE LOCKERS 18" INSIDE LOCKER PERIMETER DIMENSIONS, AND TO FULL EXTENT OF WALL ABOVE AND BESIDE LOCKERS.
3. WALL GRAPHIC (WG) TO BE COORDINATED BY OWNER, PAINT P-1 ON SUBSTRATE
4. PAINT ALL DOORS AND FRAMES IN SCOPE, AT INTERIOR DOORS (INSIDE THIS SCOPE) PAINT DOORS, P-3 BOTH SIDES, U.N.O.; ALL DOORS TO EXISTING CORRIDORS, TO MATCH ADJACENT DOOR COLOR; ALL FRAMES, P-4, TYP.
5. RF-2 'AREA RUGS' ARE CUT AND SEAMED TO SIZES INDICATED, FREE LAY ON TILE FLOOR, NO GLUE.
6. PAINT EXISTING WALLS AT AREA OF NEW DOOR/FRAME CONSTRUCTION, TO NEAREST CORNER. MATCH COLOR AND SHEEN OF EXISTING FINISH.
7. PAINT WOOD TRIM RAIL FOR SHOWER HOOKS, MATCH ADJACENT WALL SURFACE.
8. CEILING MODIFICATION REQUIRED FOR MECHAINICAL WORK, REMOVE/REPLACE AS REQUIRED; MATCH EXISTING, SEE RCP.

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Columbia, SC 29208 USC
Project No. H27-Z158

REVISIONS

NO.	NAME	DATE

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CHECKED BY: Checker

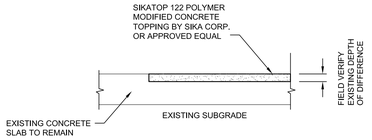
DRAWING TITLE
FINISH PLANS AND SCHEDULES

PROJECT NO. U328.13
DATE 04.30.14

DRAWING NO.
A8.1

GENERAL NOTES:

1. LOADS:
   A. LIVE LOADS:
      ASSEMBLY..... 100 PSF, 2000 LB CONCENTRATED
   B. DEAD LOADS; ACTUAL WEIGHTS OF MATERIALS, EQUIPMENT, AND ETC.
   C. ROOF, SNOW, WIND, AND SEISMIC LOADS:
      EXISTING BUILDING NOT BROUGHT UP TO MEET REQUIREMENTS OF CURRENT BUILDING CODE.
2. BUILDING CODE - INTERNATIONAL BUILDING CODE 2012
3. CAST-IN-PLACE CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS:
   NORMAL WEIGHT (150 PCF) 4000 PSI FOR ALL CONCRETE.
   LIMIT FLY ASH CONTENT TO 25% MAXIMUM BY WEIGHT.
4. ALL REINFORCING BARS TO HAVE A MINIMUM YIELD STRENGTH OF 60,000 PSI.
5. FOOTINGS ARE LOCATED AT COLUMN LINES OR CENTER OF WALLS UNLESS SHOWN OTHERWISE ON PLANS.
6. CONCRETE FORMWORK:
   A. ALL FORMWORK SHALL BE DESIGNED, ERECTED, SUPPORTED, BRACED, AND MAINTAINED ACCORDING TO ACI STANDARD 347 RECOMMENDED PRACTICE FOR CONCRETE FORMWORK.
   B. RESPONSIBILITY: THE DESIGN, CONSTRUCTION, AND SAFETY OF ALL FORMWORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL FORM, SHORES, BACKSHORES, FALSEWORK, BRACING, AND OTHER TEMPORARY SUPPORTS SHALL BE ENGINEERED TO SUPPORT ALL LOADS IMPOSED INCLUDING THE WET WEIGHT OF CONCRETE, CONSTRUCTION EQUIPMENT, LIVE LOAD, LATERAL LOADS DUE TO WIND AND WET CONCRETE IMBALANCE. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
   C. TOLERANCE: UNLESS SPECIFIED OTHERWISE, ALL TOLERANCES FOR CONCRETE FORMWORK SHALL CONFORM TO ACI STANDARD 117, STANDARD TOLERANCE FOR CONCRETE CONSTRUCTION AND MATERIALS.
   D. ALL PERMANENTLY VISIBLE EDGES OF CONCRETE SHALL HAVE A 3/4" CONTINUOUS CHAMFER. THIS INCLUDES ALL SLABS, BEAMS, COLUMNS, AND WALLS.
7. CHECK WITH VARIOUS TRADES FOR SLEEVES, OPENINGS, CONDUITS, ETC. BEFORE POURING CONCRETE.
8. PROVIDE AND INSTALL ALL PLATES, ANGLES, REINFORCING, ETC., EMBEDDED IN CAST-IN-PLACE CONCRETE.
9. SEE ARCHITECTURAL DRAWINGS FOR MISCELLANEOUS DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.
10. CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND ELEVATIONS BEFORE ANY FABRICATION HAS STARTED.
11. PROVIDE AND INSTALL ALL TEMPORARY BRACING AS REQUIRED FOR SAFETY / STABILITY OF THE STRUCTURE UNTIL STRUCTURE IS COMPLETE.
12. ALL CONCRETE SLABS ON GRADE TO BE 4" THICK REINFORCED WITH WELDED WIRE FABRIC 6x6-W1.4xW1.4, UNLESS NOTED OTHERWISE REFER TO FOUNDATION PLAN FOR SLAB THICKNESS AND REINFORCING REQUIREMENTS.
13. ALL CONCRETE SLABS TO SLOPE TO FLOOR DRAINS, IN ROOMS OR AREAS THAT HAVE FLOOR DRAINS. SEE ARCHITECTURAL PLANS AND PLUMBING PLANS FOR LOCATIONS, FIELD VERIFY EXISTING CONDITIONS.
14. ALL REINFORCING REBARS SHALL HAVE CLASS "A" TENSION SPLICES UNLESS NOTED OR SPECIFIED OTHERWISE.
15. DRAWINGS INDICATE GENERAL ARRANGEMENT AND DIMENSIONS AND ARE, GENERALLY, DRAWN TO SCALE. HOWEVER, SCALE DIMENSIONS SHALL NOT BE USED. OBTAIN DIMENSIONS FROM ARCHITECT, WHEN NOT GIVEN IN FIGURES. REFER TO THE ARCHITECT AND ENGINEER IF ANY INCONSISTENCIES ARE FOUND.
16. WHERE CONFLICTS EXIST BETWEEN STRUCTURAL AND ARCHITECTURAL, USE STRUCTURAL FOR ITEMS RELATING TO STRUCTURAL STRENGTH SUCH AS VERTICAL REINFORCING IN CONCRETE WALLS, FOOTING SIZE, FOOTING ELEVATION, REINFORCING, MEMBER SIZE, ETC.
17. STRUCTURAL STEEL:
   A. STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS, UNLESS NOTED OTHERWISE ON PLANS:
      a. ALL ROLLED ANGLES, CHANNELS, PLATES, BARS, ETC A36 (Fy=36ksi).
      b. ALL ROLLED W SHAPES, BEAMS, COLUMNS, ETC A992 (Fy=50ksi).
      c. STRUCTURAL STEEL PIPE ---------- A53 (Fy=35ksi)
      d. STRUCTURAL STEEL TUBE ---------- A500 (Fy=46ksi)
   B. BOLTED CONNECTIONS:
      a. ALL CONNECTIONS (UNLESS NOTED OTHERWISE) SHALL BE MADE WITH 3/4" DIAMETER A-325X OR A-490X BOLTS. ALL FIELD BOLTED CONNECTIONS SHALL BE LOAD INDICATOR/ TENSION CONTROL TYPE BOLTS, UNLESS NOTED OTHERWISE
      b. OVERSIZE OR LONG SLOTTED HOLES ARE NOT ALLOWED UNLESS SHOWN ON STRUCTURAL PLANS.
      c. THE SHOP DRAWINGS SHALL CLEARLY INDICATE THE TYPE OF BOLTS USED IN EACH CONNECTION AND THE ALLOWABLE VALUES USED FOR THE VARIOUS BOLT TYPES.
      d. THE FOLLOWING MINIMUM STANDARDS APPLY:
         (1) MINIMUM PLATE THICKNESS = 3/8"
         (2) MINIMUM BOLT DIAMETER = 3/4"
         (3) MINIMUM WELD = 3/16" THICK THROAT
         (4) MINIMUM DESIGN LOAD ON ANY CONNECTION = 15kips
   C. WELDED CONNECTIONS:
      a. ALL SHOP AND FIELD WELDING SHALL CONFORM TO AWS STRUCTURAL WELDING CODE-STEEL, ANSI/AWS - D1.1
      b. MINIMUM WELD = 3/16" THICK THROAT



CLEAN AND PREPARE EXISTING CONCRETE TO RECEIVE FILLER/ TOPPING SLAB.

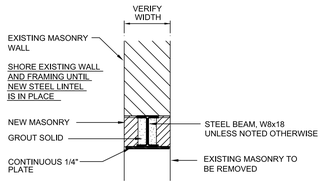
FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS FOR PREPARATION, PROCEDURES, AND WORKMANSHIP.

PROVIDE COURSE AGGREGATE IN THE MIX WHEN DEPTH IS GREATER THAN 1" IN DEPTH PER MANUFACTURER'S RECOMMENDATIONS.

EQUAL PRODUCTS SHALL BE SUBMITTED FOR REVIEW.

TYPICAL PATCHING AT EXISTING SLABS

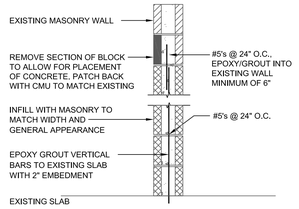
SCALE: 3/4" = 1'-0"



NOTE: PROVIDE BEARING PLATES @ EACH END OF NEW LINTEL. 7"x1/4"x7" WITH (2) 1/2" ANCHORS. REMOVE PORTION OF MASONRY, TO SET PLATE, AND FILL SOLID UNDER PLATE W/ NON-SHRINK GROUT. REPAIR MASONRY AFTER PLACEMENT.

NEW LINTEL IN EXISTING WALL

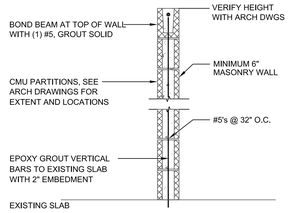
NOT TO SCALE



TYPICAL CMU INFILL DETAIL

SCALE: 3/4"=1'-0"

REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED LOCATIONS, EXTENTS, AND CONFIGURATION



TYPICAL CMU PARTITION DETAIL

SCALE: 3/4"=1'-0"

REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED LOCATIONS, EXTENTS, AND CONFIGURATION

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Structural Engineers
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4/30/14

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION MABRY ENGINEERING ASSOCIATES, INC. No. C03489
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PROJECT TITLE
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University of South Carolina
Solomon Blatt Physical Education Center
1300 Wheat Street
Columbia, SC 29208 USC
Project No. H27-Z158

REVISIONS		
NO.	NAME	DATE

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DRAWING TITLE
NOTES AND TYPICAL DETAILS

PROJECT NO. U328.13
DATE 04.30.14
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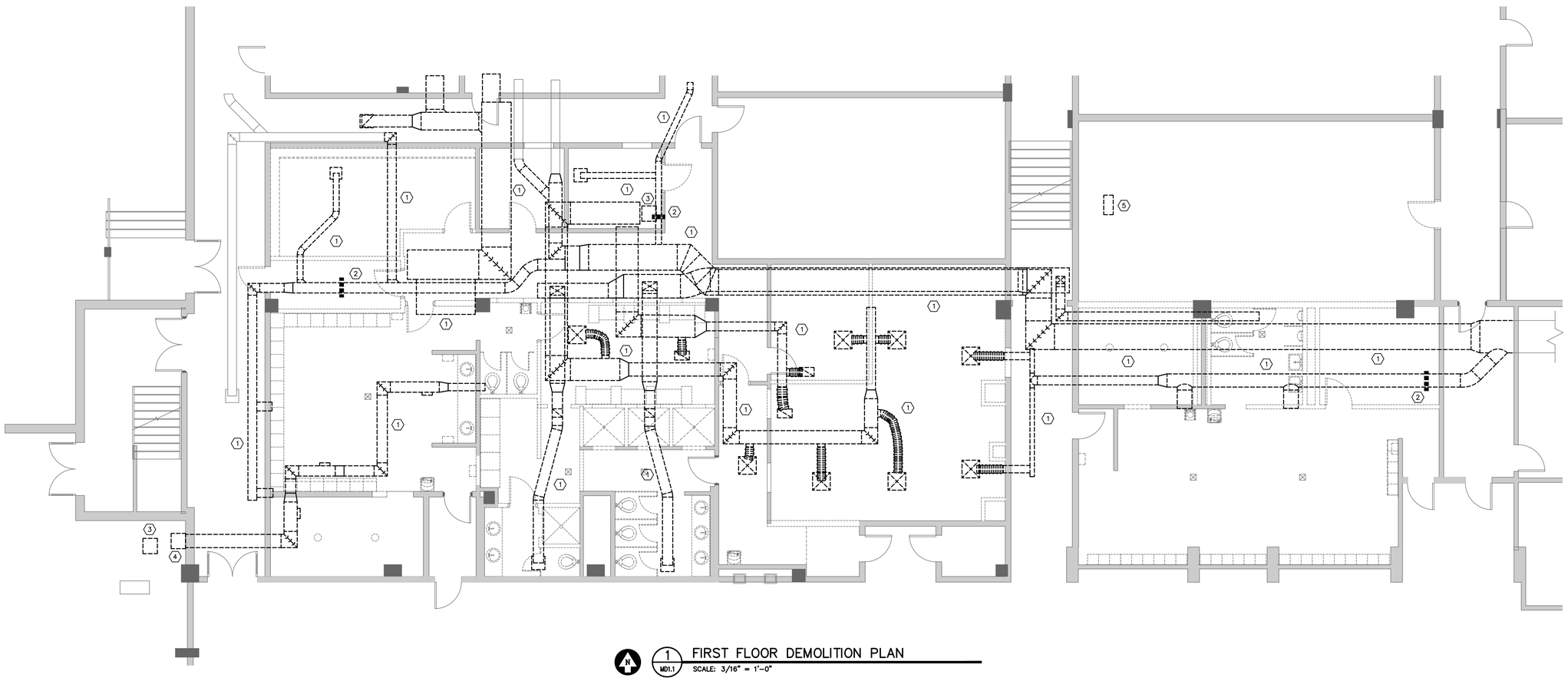
DEMOLITION NOTES

1. REMOVE ALL DUCTWORK AS SHOWN COMPLETE, INCLUDING BUT NOT LIMITED TO DUCT AND GRILLES.
2. REMOVE HOT WATER COILS COMPLETE, INLCUDING BUT NOT LIMITED TO WIRING, CONTROLS AND PIPING. CAP PIPING BACK AT MAINS.
3. REMOVE SPLIT SYSTEM COMPLETE, INCLUDING BUT NOT LIMITED TO DUCTWORK PIPING, CONTROLS, WIRING ADN REFRIGERANT.
4. REMOVE EXHAUST FAN COMPLETE.
5. REMOVE SUPPLY GRILLE IN RACQUETBALL COURT AND CAP WITH SHEET METAL COVER AND SEAL AIR TIGHT.



1 MD1.1 FIRST FLOOR DEMOLITION PLAN
SCALE: 3/16" = 1'-0"

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Solomon Blatt Physical Education Center
1300 Wheat Street
Columbia, SC 29208 USC
Project No. H27-Z158

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NO.	NAME	DATE

DRAWN BY STS
CHECKED BY WCL

DRAWING TITLE
FIRST FLOOR DEMOLITION PLAN

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PROJECT NO. U328.13
DATE 04.30.14

DRAWING NO.
MD1.1

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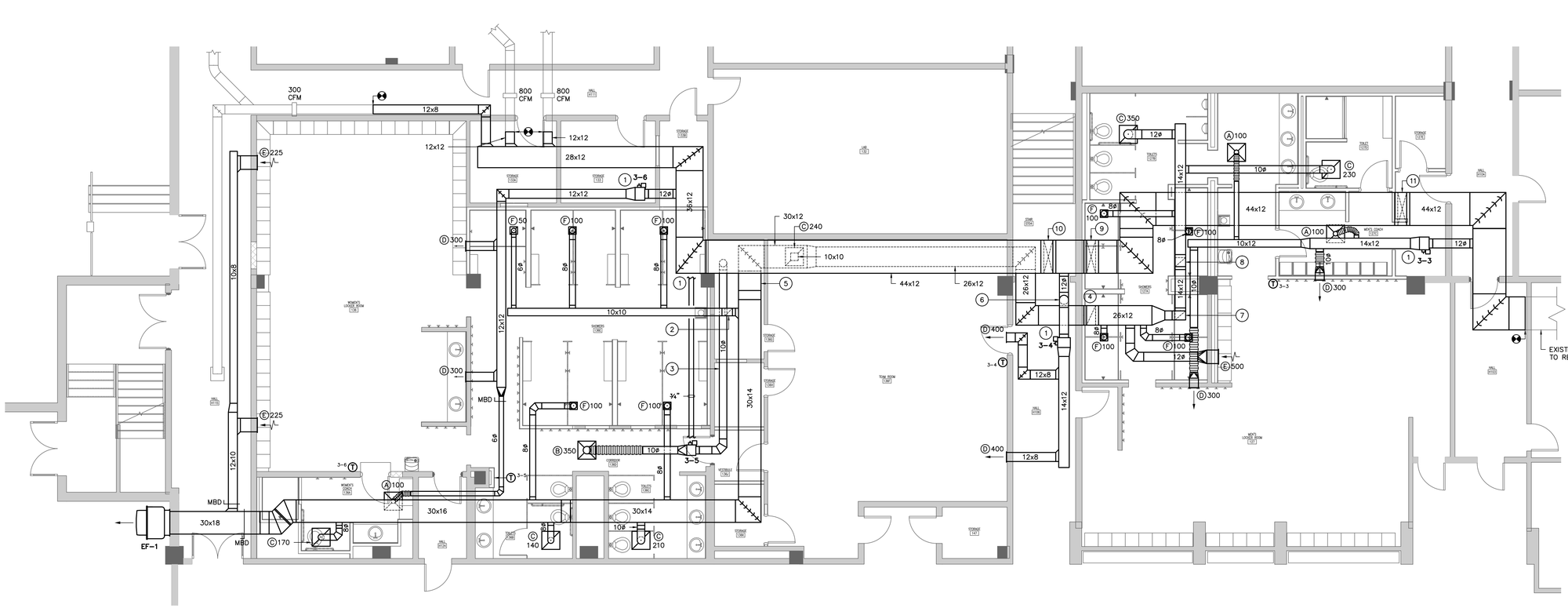
NOTES TO SHEET

1. EXTEND AND CONNECT HOT WATER PIPE TO EXISTING MAINS.
2. 10"x10" EXHAUST DUCT RISES ABOVE CEILING IN SHOWER 136E.
3. 10"ø SUPPLY DUCT RISES ABOVE CEILING IN STORAGE 136H.
4. 26"x12" EXHAUST DUCT RISES ABOVE CEILING IN SHOWER 127A.
5. 30"x12" EXHAUST DUCT DROPS UNDER BEAM.
6. 12"ø SUPPLY DUCT RUNS UNDER BEAM AND RISES ABOVE EXHAUST DUCT.
7. 14"x12" EXHAUST DUCT DROPS BELOW BEAM.
8. 14"x12" EXHAUST DUCT RISES UP ABOVE SUPPLY DUCT.
9. 44"x12" SUPPLY DUCT DROPS BELOW CONCRETE BEAM.
10. 44"x12" SUPPLY DUCT RISES ABOVE EXHAUST DUCT TIGHT TO BEAM ABOVE.
11. 44"x12" SUPPLY DUCT RISES ABOVE CEILING IN MEN'S COACH 127.

NOTE:
EXISTING AHU-3 SHALL BE AIR BALANCED TO 6,000 CFM.
EXISTING VAV BOXES/COILS SHALL BE AIR BALANCED TO THE FOLLOWING:
3-1 – 1550 CFM MAX, 470 CFM MIN
3-2 – 700 CFM MAX, 210 CFM MIN
RH COIL 2 – 80 CFM
RH COIL 18 – 680 CFM



1 M1.1 FIRST FLOOR PLAN
SCALE: 3/16" = 1'-0"

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A/E SEAL

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PROJECT TITLE
SWIM TEAM LOCKER ROOM RENOVATIONS
University of South Carolina
Solomon Blatt Physical Education Center
1300 Wheat Street
Columbia, SC 29208 USC
Project No. H27-Z158

REVISIONS

NO.	NAME	DATE

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DRAWING TITLE
FIRST FLOOR PLAN

PROJECT NO. U328.13
DATE 04.30.14

DRAWING NO.
M1.1

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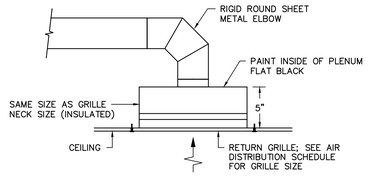
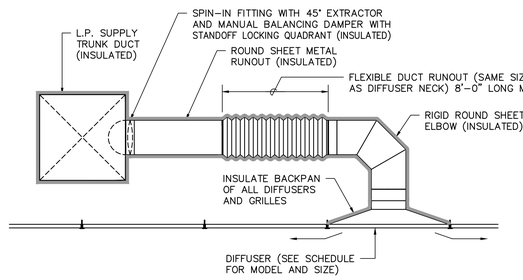
NOTE:
EXISTING AHU-3 SHALL BE AIR BALANCED TO 6,000 CFM.
EXISTING VAV BOXES/COILS SHALL BE AIR BALANCED TO THE FOLLOWING:
3-1 – 1550 CFM MAX, 470 CFM MIN
3-2 – 700 CFM MAX, 210 CFM MIN
RH COIL 2 – 80 CFM
RH COIL 18 – 680 CFM



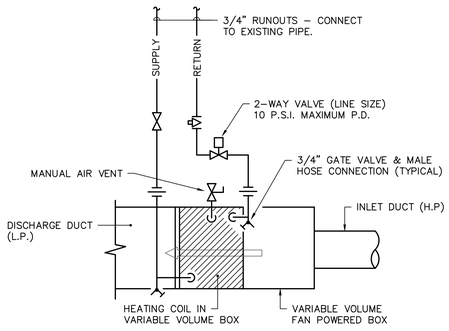
EXHAUST GRILLE DETAIL

NO SCALE



CEILING DIFFUSER DETAIL

NO SCALE



HOT WATER HEATING COIL PIPING DETAIL

NO SCALE

VARIABLE VOLUME BOX SCHEDULE

TAG	ENVIROTECH MODEL	AIR INLET (NOM. DIA.)	CFM		HEATING COIL		MAX. UNIT P.D. INCHES W.C.	MAX. NC LEVEL	REMARKS
			MAX/MIN	HEATING	MBH	GPM			
3-3	SDR	12"ø	800/800	800	37.3	2.5	0.25	30	1,2
3-4	SDR	12"ø	800/240	240	15.8	1.1	0.25	30	1,2
3-5	SDR	10"ø	350/350	350	21.7	1.5	0.25	30	1,2
3-6	SDR	12"ø	700/700	700	34.0	2.3	0.25	30	1,2

1. HEATING COIL SELECTION BASED ON 150°F EWT WITH 30°F DROP.
2. PROVIDE WITH STAND ALONE JOHNSON CONTROLS CONTROLLER, CONTROL VALVE AND WALL MOUNTED THERMOSTAT.

AIR DISTRIBUTION SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	MODEL	FRAME	CFM	NECK SIZE	FACE SIZE	MAX NC	REMARKS
Ⓐ	UNI-FLOW SUPPLY	PRICE	ASPD	LAY-IN	0-125	6"ø	24"x24"	30	1,2
Ⓑ	UNI-FLOW SUPPLY	PRICE	ASPD	LAY-IN	251-350	10"ø	24"x24"	30	1,2
Ⓒ	PERFORATED EXHAUST	PRICE	APDDR	LAY-IN	0-1000	22"x22"	24"x24"	30	1,2
Ⓓ	SIDEWALL SUPPLY	PRICE	620	SURFACE	300-400	12"x8"	14"x10"	30	1,2,3
Ⓔ	SIDEWALL RETURN	PRICE	630	SURFACE	0-500	18"x8"	20"x10"	30	1,2
Ⓕ	PERFORATED EXHAUST	PRICE	APDDR	SURFACE	0-100	10"x10"	12"x12"	30	1,2,3

1. PROVIDE WITH STANDARD WHITE FINISH.
2. PROVIDE ALUMINUM OR ALUMINIZED STEEL CONSTRUCTION.
3. PROVIDE WITH OPPOSED BLADE DAMPER.

EXHAUST FAN SCHEDULE

TAG	GREENHECK MODEL NO.	TYPE	CFM	ESP	MOTOR H.P./W	SONES (MAX.)	REMARKS
EF-1	CWB-180-7	SIDEWALL	3140	0.5	3/4	15.4	1,2

1. PROVIDE SIDEWALL CENTRIFUGAL FAN WITH BELT DRIVE, ALUMINUM CONSTRUCTION AND NEMA 1 TOGGLE SWITCH.
2. INTERLOCK WITH AHU-3 OPERATION.

LEGEND

SYMBOL	DESCRIPTION
HWS	HOT WATER SUPPLY LINE
HWR	HOT WATER RETURN LINE
Ⓐ100	TYPE "A" DIFFUSER, 100 CFM
Ⓣ	THERMOSTAT
	RECTANGULAR SUPPLY DUCTWORK
	RETURN, EXHAUST, FRESH AIR DUCTWORK
48x24	48"x24" RECTANGULAR DUCT
	CONNECTION POINT OF NEW TO EXISTING
	1" DOOR UNDERCUT BY GENERAL CONTRACTOR

GENERAL NOTES

1. VISIT SITE PRIOR TO BIDDING. THIS CONTRACTOR SHALL DETERMINE DIFFICULTY OF INSTALLATION AND REFLECT THIS IN HIS BIDDING.
2. DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL DRAWINGS AND REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF DOORS, WINDOWS, AIR DISTRIBUTION, ETC.
3. DO NOT SCALE DRAWINGS. THIS CONTRACTOR SHALL VERIFY ALL EXISTING ITEMS AND LOCATIONS IN THE FIELD.
4. ALL PIPING AND DUCTWORK LOCATIONS SHALL BE COORDINATED WITH WORK UNDER OTHER DIVISIONS OF THE SPECIFICATIONS TO AVOID INTERFERENCE.
5. EXISTING PIPE, DUCTWORK, CONDUIT, ETC THAT INTERFERES WITH THE ROUTING OF NEW SYSTEMS SHALL BE RELOCATED. THIS CONTRACTOR SHALL INCLUDE THE COST OF SUCH IN HIS BID UNLESS NOTED OTHERWISE.
6. WATER SYSTEMS SHALL BE DRAINED AS REQUIRED FOR INSTALLATION OF WORK. UPON COMPLETION, SYSTEM SHALL BE FILLED WITH WATER AND VENTED OF ALL AIR.
7. ALL PIPING AND DUCTWORK INSULATION SHALL BE RUN CONTINUOUSLY THROUGH FLOORS, ROOFS AND PARTITIONS.
8. ALL MECHANICAL ITEMS EXTENDING THROUGH WALLS SHALL BE FLASHED AND COUNTERFLASHED.
9. ALL PIPING IS SHOWN DIAGRAMMATIC. HOWEVER, THIS CONTRACTOR SHALL PROVIDE ALL REQUIRED FITTINGS, PIPING AND INSULATION FOR ALL OFFSETS AND/OR CHANGES IN ELEVATION.
10. ALL VALVES AND SPECIALTIES SHALL BE LINE SIZE UNLESS NOTED OTHERWISE, USING ECCENTRIC REDUCERS ON PUMP SUCTION AND CONCENTRIC REDUCERS ON PUMP DISCHARGE. USE ECCENTRIC REDUCERS ON AUTOMATIC VALVES AS REQUIRED.
11. MINIMUM PIPE SIZE SHALL BE 3/4-INCH UNLESS INDICATED OTHERWISE.
12. ALL PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH THE SPECIFICATIONS AND FURTHER SUPPORTS OR HANGERS SHALL BE PROVIDED TO PREVENT WEIGHT OF PIPING BEING PLACED ON EQUIPMENT.
13. SPACE ABOVE CEILING TO BE USED AS RETURN AIR PLENUM WHERE DUCT IS NOT INDICATED ABOVE RETURN AIR GRILLES.
14. ALL OPEN END DUCTS SHALL HAVE 1/4-INCH MESH GALVANIZED SCREEN IN REMOVABLE FRAME.
15. PROVIDE FOR ACCESS TO ALL EQUIPMENT REQUIRING CLEANING OR ADJUSTMENT.
16. INSTALL ALL VAV BOXES WITHIN 24" OF CEILING TO ALLOW FOR SERVICE ACCESS.
17. THIS CONTRACTOR SHALL PROVIDE ALL ITEMS OF MISCELLANEOUS STEEL AS REQUIRED FOR INSTALLATION OF ALL MECHANICAL ITEMS.
18. THIS CONTRACTOR SHALL DO ALL CONTROL WIRING AND PROVIDE TRANSFORMER TO CONTROL POWER AS REQUIRED. DIVISION 16 WILL DO ALL POWER WIRING. ALL WIRING SHALL BE IN ACCORDANCE WITH NATIONAL ELECTRIC CODE. CONTROL WIRING SHALL BE CONCEALED WITHIN WALL.
19. LOCATE ALL SPACE CONTROL INSTRUMENTS 4'-0" ABOVE FINISHED FLOOR.
20. CAP PNEUMATIC LINES AS REQUIRED DURING DEMOLITION TO MAINTAIN OPERABLE SYSTEM.
21. CORRECT SETTINGS ON ALL BALANCING FITTINGS SHALL BE PERMANENTLY MARKED. PROVIDE ORANGE FLAGGING RIBBON ON EACH DAMPER HANDLE FOR EASY IDENTIFICATION.
22. 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 PROPERLY.
23. THE HVAC SYSTEMS SHALL NOT BE OPERATED DURING HEAVY CONSTRUCTION OPERATIONS INCLUDING MASONRY, GYPSUM BOARD SANDING, HEAVY CLEANUP ACTIVITIES, OR OTHER ACTIVITIES THAT CREATE AIRBORNE PARTICLES OR DEBRIS. ALL SYSTEMS SHALL BE CLEAN OF CONSTRUCTION DEBRIS, DUST AND DIRT AT FINAL COMPLETION. DUCT CLEANING AND UNIT/COIL CLEANING SHALL BE PERFORMED IF REQUIRED.

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PROJECT TITLE
SWIM TEAM LOCKER ROOM RENOVATIONS
University of South Carolina
Solomon Blatt Physical Education Center
1300 Wheat Street
Columbia, SC 29208 USC
Project No. H27-Z138

REVISIONS		
NO.	NAME	DATE

DRAWN BY DEM
CHECKED BY WCL

DRAWING TITLE
DETAILS, NOTES, SCHEDULES AND LEGEND

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PROJECT NO. U328.13
DATE 04.30.14
DRAWING NO. **M2.1**

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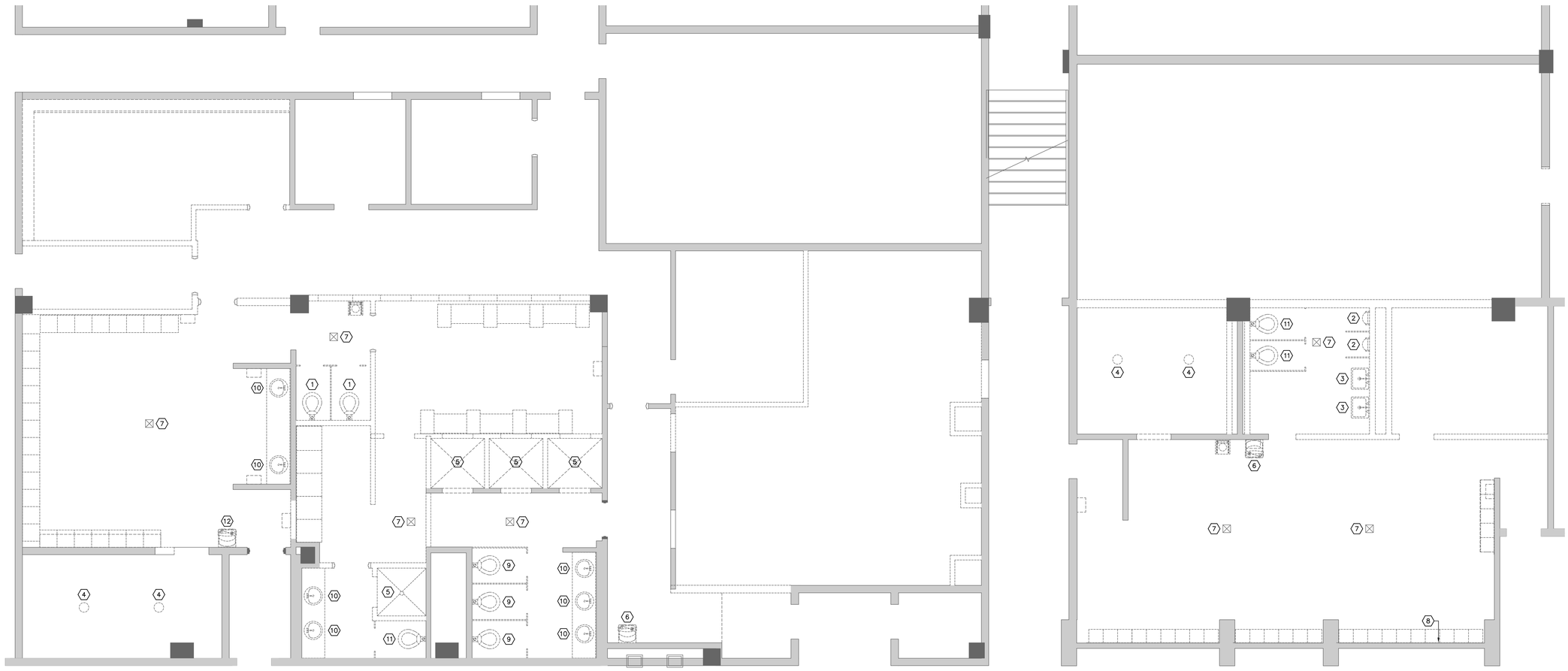
DEMOLITION NOTES

1. EXISTING FLOOR MOUNTED WATER CLOSET TO BE REMOVED COMPLETELY. CAP EXISTING PIPING IN CRAWL SPACE, IN WALL, OR ABOVE CEILING AS REQUIRED.
2. EXISTING URINAL TO BE REMOVED COMPLETELY. CAP EXISTING PIPING IN CRAWL SPACE OR ABOVE CEILING AS REQUIRED. REUSE FIXTURE IN NEW LOCATION AS INDICATED ON RENOVATION PLANS.
3. EXISTING LAVATORY TO BE REMOVED COMPLETELY. CAP EXISTING PIPING IN CRAWL SPACE OR ABOVE CEILING AS REQUIRED.
4. EXISTING COLUMN SHOWER UNIT TO BE REMOVED COMPLETELY. CAP EXISTING WASTE LINE IN CRAWL SPACE. REMOVE EXISTING SUPPLY AND VENT PIPING UNTIL THE POINT WHERE NOT VISIBLE BY NEW CEILING AND CAP AS REQUIRED.
5. EXISTING STALL SHOWER TO BE REMOVED COMPLETELY. CAP EXISTING PIPING IN CRAWL SPACE OR ABOVE CEILING AS REQUIRED.
6. EXISTING WALL HUNG DRINKING FOUNTAIN TO BE REMOVED COMPLETELY. CAP EXISTING PIPING IN WALL AS REQUIRED.
7. EXISTING FLOOR DRAIN TO REMAIN. REMOVE AND REINSTALL FOR NEW FLOOR FINISH AS REQUIRED.
8. EXISTING SUPPLY LINE TO HOSE BIBB TO BE REMOVED FROM LOCKER AND REINSTALLED IN WALL. COORDINATE WITH NEW LOCKERS.
9. EXISTING WALL HUNG WATER CLOSET, FLUSH VALVE, SEAT, AND CARRIER TO BE REMOVED FOR NEW FINISH AND REINSTALLED UPON COMPLETION OF FINISH WORK. SECURE WATER CLOSET TO CARRIER.
10. EXISTING COUNTERTOP LAVATORY AND FAUCET TO BE REMOVED FOR NEW COUNTERTOP AND REINSTALLED UPON COMPLETION OF NEW COUNTERTOP.
11. EXISTING WALL HUNG WATER CLOSET TO BE REMOVED COMPLETELY. CAP EXISTING PIPING IN CRAWL SPACE, IN WALL, OR ABOVE CEILING AS REQUIRED. REUSE FIXTURE IN NEW LOCATION AS INDICATED ON RENOVATION PLANS.
12. EXISTING DRINKING FOUNTAIN TO BE REMOVED. EXISTING PIPING TO BE REUSED FOR NEW FIXTURE.



1 PD1.1 FIRST FLOOR DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

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PROJECT TITLE
SWIM TEAM LOCKER ROOM RENOVATIONS
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Solomon Blatt Physical Education Center
1300 Wheat Street
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Project No. H27-Z158

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DRAWING TITLE
FIRST FLOOR DEMOLITION PLAN

PROJECT NO. U328.13
DATE 04.30.14

DRAWING NO.
PD1.1

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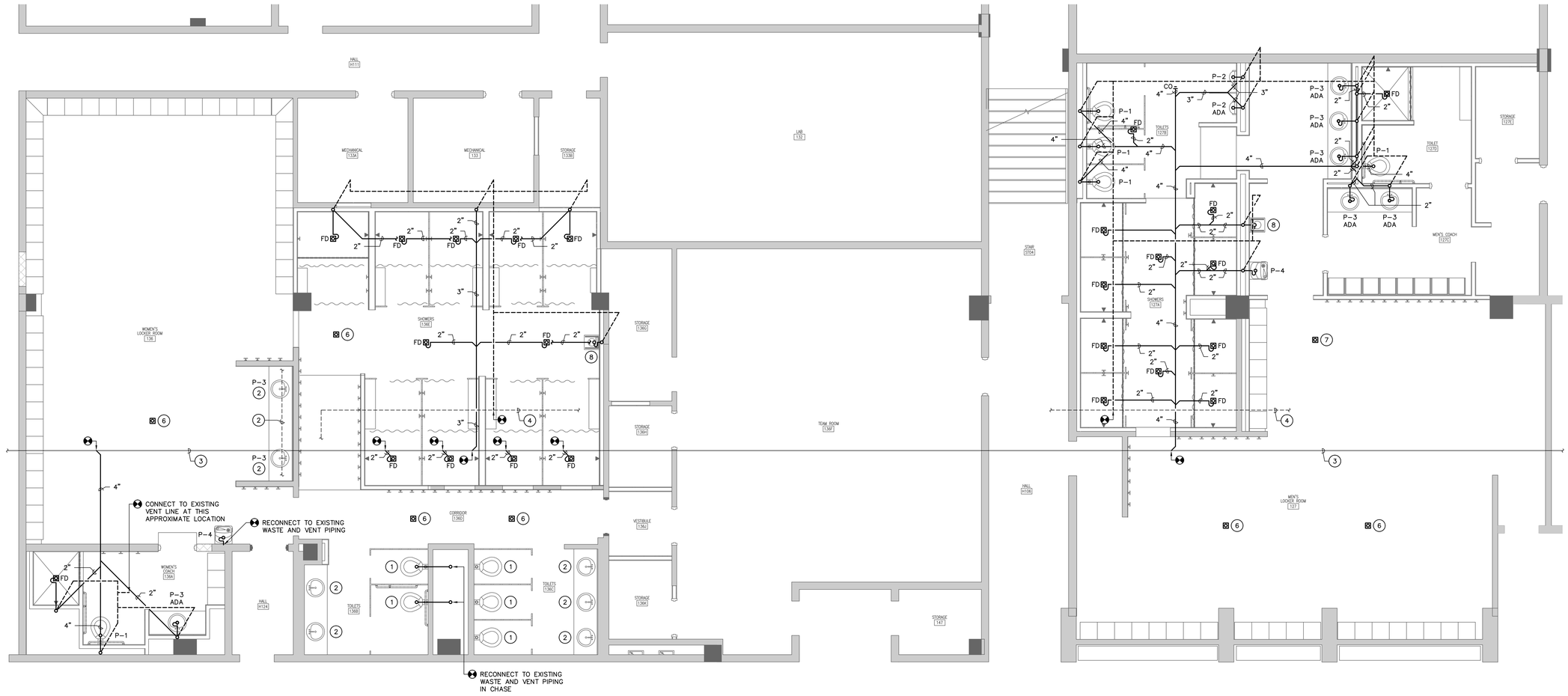
NOTES TO SHEET

1. RECONNECT NEW FIXTURE, FLUSH VALVE, ETC. TO EXISTING PIPING. PROVIDE NEW CARRIER.
2. RECONNECT NEW FIXTURE TO EXISTING PIPING. PROVIDE ALL NEW SUPPLIES AND TRAPS PER PLUMBING FIXTURE SCHEDULE.
3. APPROXIMATE LOCATION OF EXISTING 5" SANITARY WASTE LINE IN CRAWL SPACE.
4. APPROXIMATE LOCATION OF EXISTING SANITARY VENT LINE.
5. EXISTING 2" VENT LINE TO BE RAISED UP 12" TO BE LEVEL WITH REMAINING LINES.
6. EXISTING FLOOR DRAIN REINSTALLED IN NEW FLOOR.
7. INSTALL NEW SQUARE TOP STRAINER ON EXISTING FLOOR DRAIN.
8. PROVIDE McGUIRE, OR APPROVED EQUAL, MODEL 8872 1¼" P-TRAP FOR CONNECTION TO SUITMATE PROVIDED BY OTHERS.

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



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1 / P1.1 FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"

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Project No. H27-Z158

REVISIONS

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DRAWING TITLE
FIRST FLOOR PLAN - WASTE AND VENT PIPING

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PROJECT NO. U328.13.
DATE 04.30.14
DRAWING NO. **P1.1**

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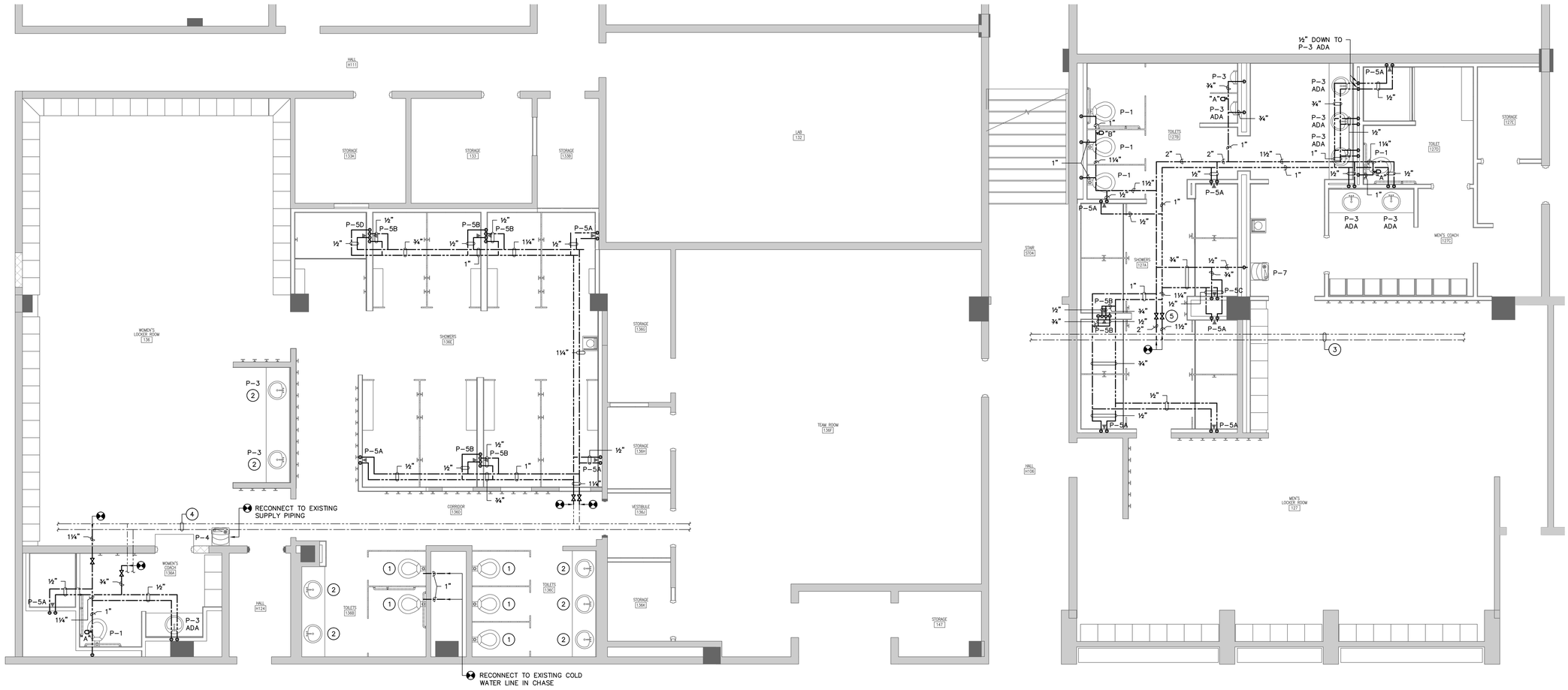
NOTES TO SHEET

1. RECONNECT NEW FIXTURE, FLUSH VALVE, ETC. TO EXISTING PIPING. PROVIDE NEW CARRIER.
2. RECONNECT NEW FIXTURE TO EXISTING PIPING. PROVIDE ALL NEW SUPPLIES AND TRAPS PER PLUMBING FIXTURE SCHEDULE.
3. APPROXIMATE LOCATION OF EXISTING 2" COLD WATER LINE AND 2" HOT WATER LINE.
4. APPROXIMATE LOCATION OF EXISTING 2" COLD WATER LINE AND ¾" HOT WATER LINE.
5. COORDINATE VALVE LOCATION WITH ACCESS PANEL INSTALLED BY OTHERS.



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1 / P2.1 FIRST FLOOR PLAN

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

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University of South Carolina
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FIRST FLOOR PLAN - SUPPLY PIPING

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DRAWING NO. **P2.1**

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PLUMBING FIXTURE SCHEDULE

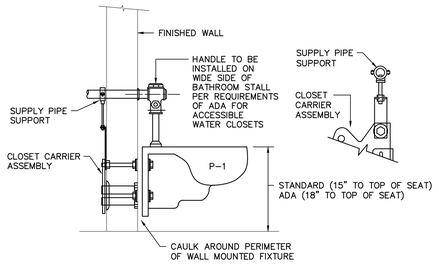
P. NO.	FIXTURE	MFGR.	NAME	MFGRS. NO.	SIZE	MIN. SUPPLY CW	MIN. SUPPLY HW	REMARKS
P-1	WATER CLOSET	KOHLER	KINGSTON	K-4325	- - -	1"	- -	WITH SLOAN MODEL 111-XL-1.28 FLUSH VALVE, BENEKE 527 SEAT, CHAIR CARRIER, AND BOLT CAPS.
P-2	URINAL	KOHLER	DEXTER	K-5016-ET	- - -	3/4"	- -	WITH SLOAN MODEL 186-0.5-XL FLUSH VALVE, AND CHAIR CARRIER.
P-3	LAVATORY	KOHLER	FARMINGTON	K-2905-4	19¼"x16¼"	3/8"	3/8"	WITH DELTA MODEL 501-WFHDF FAUCET, McGUIRE 155A GRID DRAIN, McGUIRE H165 3/8" CAST BRASS SUPPLIES WITH STOPS, AND McGUIRE 8872 1-1/4" P-TRAP.
P-4	ELECTRIC WATER COOLER	OASIS	- - -	P8AC	- - -		- -	WITH STAINLESS STEEL FINISH, McGUIRE H165 3/8" CAST BRASS SUPPLY WITH STOP, AND McGUIRE 8872 1-1/4" P-TRAP. MOUNT PER ADA REQUIREMENTS.
P-5A	SHOWER TRIM	SYMMONS	TEMPTROL	C-96-1-295-X	- - -	1/2"	1/2"	WITH FIXED SHOWER HEAD AND INTEGRAL STOPS.
P-5B	SHOWER TRIM	SYMMONS	TEMPTROL	C-96-1-295-X-REV	- - -	1/2"	1/2"	WITH FIXED SHOWER HEAD, INTEGRAL STOPS, AND REVERSE CORING.
P-5C	ACCESSIBLE SHOWER TRIM	SYMMONS	TEMPTROL	25-500-B30-V-X-REV	- - -	1/2"	1/2"	WITH FIXED SHOWER HEAD, HAND HELD SHOWER, AND INTEGRAL STOPS.
P-5D	ACCESSIBLE SHOWER TRIM	SYMMONS	TEMPTROL	25-500-B30-V-X-REV	- - -	1/2"	1/2"	WITH FIXED SHOWER HEAD, HAND HELD SHOWER, INTEGRAL STOPS, AND REVERSE CORING.
FD	FLOOR DRAIN	ZURN	- - -	ZN-415-S	- - -	- -	- -	WITH 6"x6" NICKLE BRONZE STRAINER AND TRAP GUARD BY PROSET, OR APPROVED EQUAL.

GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED ACCORDING TO ALL LOCAL, STATE, NATIONAL CODES, AND THE 2012 INTERNATIONAL PLUMBING CODE.
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. VENTS SHALL BE COLLECTED ABOVE THE CEILING AND EXTENDED TO EXISTING VENT PIPING AS INDICATED.
6. ALL VALVES WITH THREADED HOSE CONNECTIONS SHALL BE EQUIPPED WITH A WATTS REGULATOR COMPANY, NO. NF8 BACK-SIPHONAGE, BACKFLOW PREVENTER.
7. 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.
8. ALL PIPING INSULATION SHALL BE RUN CONTINUOUSLY.

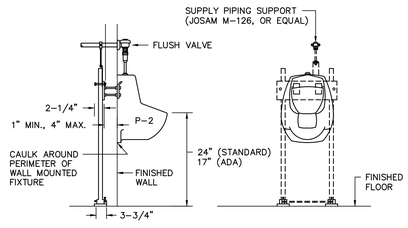
LEGEND

SYMBOL	DESCRIPTION
	SANITARY WASTE LINE
	SANITARY VENT LINE
	DOMESTIC COLD WATER LINE
	DOMESTIC HOT WATER LINE
	SHUTOFF VALVE
"A"	SHOCK ARRESTOR (P.D.I. RATING OF "A")
	PIPE TURNS TO, AWAY
CO	CLEANOUT (IN CRAWL SPACE)
FD	FLOOR DRAIN
ADA	FIXTURE FOR USE ACCORDING TO THE AMERICANS WITH DISABILITIES ACT
	CONNECTION POINT OF NEW TO EXISTING



WATER CLOSET SUPPLY DETAIL

NO SCALE



TYPICAL URINAL SUPPORT

NO SCALE

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PROJECT NO. U328.13
DATE 04.30.14

DRAWING NO.

P3.1

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NOTE:
ALL WORK SHALL COMPLY WITH NFPA 13 – 2010 EDITION FOR A WET PIPE SPRINKLER SYSTEM.

LEGEND

- ☐ – LIGHT HAZARD
- ▨ – ORDINARY HAZARD – GROUP I

GENERAL NOTES

1. SUBMIT DRAWINGS INDICATING EXACT LOCATION OF ALL SPRINKLER HEADS FOR ARCHITECTS REVIEW AND BRING ALL FIELD CONFLICTS AND REQUIRED ADJUSTMENTS TO THE ARCHITECTS ATTENTION FOR VERIFICATION OF FINAL LOCATION OF ALL SPRINKLER HEADS.
2. SPRINKLER DRAWINGS PROVIDED ARE TO ASSIST THE CONTRACTOR. SUCCESSFUL CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF A COMPLETE SYSTEM PER THESE PLANS AND SPECIFICATIONS AND IN COMPLIANCE WITH ALL APPLICABLE CODES.
3. THE DESIGN TEAM, TO INSURE COMPATIBILITY WITH THE BUILDING DESIGN INTENT, WILL CAREFULLY REVIEW SPRINKLER PLANS. CORRECTIONS WILL BE MADE BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
4. SPRINKLER HEADS SHALL BE LOCATED A MINIMUM OF 6" AWAY FROM CEILING GRID IN ALL ACOUSTICAL CEILING TILES.
5. BRANCH LINES OR MAIN LINES FOR SPRINKLER PIPING THAT ARE BEING MOVED, ADDED, OR RELOCATED SHALL BE INSTALLED TO MEET SEISMIC REQUIREMENTS WITH LATERAL SWAY BRACING, LONGITUDINAL SWAY BRACING, AND FOUR-WAY BRACING AS REQUIRED BY NFPA AND THE INTERNATIONAL BUILDING CODES. ARM OVERS SERVING A SINGLE SPRINKLER SHALL BE EXEMPT.
6. THIS CONTRACTOR SHALL NOT SUPPLY MORE THAN ONE SPRINKLER HEAD FROM ANY ONE EXISTING OUTLET.
7. EXISTING SYSTEM TO BE MODIFIED TO ACCOMODATE NEW WALLS AND SPACES AS REQUIRED TO PROVIDE A FULLY PROTECTED FLOOR. SEE ARCHITECTURAL PLANS FOR WALL TYPES.

NOTES TO SHEET

1. EXISTING SPRINKLER SYSTEM SHALL BE MODIFIED AS REQUIRED TO ACCOMMODATE NEW WALLS AND/OR CEILINGS. ANY NEW REQUIRED SPRINKLER HEADS SHALL BE UPRIGHT BRASS HEADS OR RECESSED HEADS WITH WHITE FINISH AS REQUIRED.
2. AREA NOT CURRENTLY PROTECTED BY SPRINKLERS. CONTRACTOR SHALL EXTEND EXISTING SYSTEM INTO THIS AREA TO PROVIDE COMPLETE COVERAGE.

Fire Protection Sprinkler System Specification Sheet

(Per §40-10-250)

Project Data

Project name: Blatt Natatorium Renovations – Swim Team Locker Rooms

Location in South Carolina: Address (street # & street name): 1300 Wheat Street — State project: ☐ Yes X No
City: Columbia — County: Richland — State project #: N/A

Water Supply Information
(flow test data must be less than 1 year old per §40-10-250(A)(1))

Date test conducted: 03/28/2014 — Static pressure (psi): 92 — Residual pressure (psi): 65 — Flow (gpm): 1505

Distances of test gauges relative to the base of the riser: Horizontal (ft): 75' — Vertical (elevation difference in ft): 10'

Source of water supply: ☐ Municipal dead-end X Municipal circulation ☐ Other: — Pipe Size (in.): 12"

Test data by/from: Name: Jason Shaw, P.E. — Title: Water Engineer
Organization: City of Columbia — Telephone #:803-545-3400

Fire pump: ☐ Yes X No — Pump Capacity (gpm): N/A — Churn Pressure (psi): N/A
☐ New ☐ Existing — Rated Pressure (psi): N/A — Pressure @ 150% flow (psi): N/A

On-site storage tank: ☐ Yes X No — ☐ New ☐ Existing — Tank capacity (gallons): N/A

NFPA Hazard Classification
(attach continuation page when necessary)

Area #	Class or Code Reference	Description of Hazard Protected (commodity description, storage height, and arrangement as applicable.)
1	Light Hazard	Team Room, Locker Rooms, Restrooms, Etc.
2	Ordinary Hazard – Group 1	Storage

Design Parameters
(attach continuation page when necessary)

Area #	System Type	Density (gpm/ft²) / Area (ft²) or Other (reference code section)	Inside Hose (gpm)	Outside Hose (gpm)
1	Wet	0.10/1500	0	100
2	Wet	0.15/1500	0	250

Seismic Design Data: S_S=0.419

Codes and Standards
(attach continuation page when necessary)

Applicable Codes, Standards & Editions (i.e. "2006 IBC", "2007 NFPA 13", etc.) **for the Scope of Work on the Sprinkler System**
International Building Codes – 2012 Edition
NFPA 13 – 2010 Edition

Scope of work (such as sprinkler system A.G. from 1'-0" A.F.F., U.G. from tap to 5'-0" outside, etc.) and notes (attach continuation page when necessary):
Above ground changes to the existing system to accommodate new walls and ceilings.

Specifier's Information

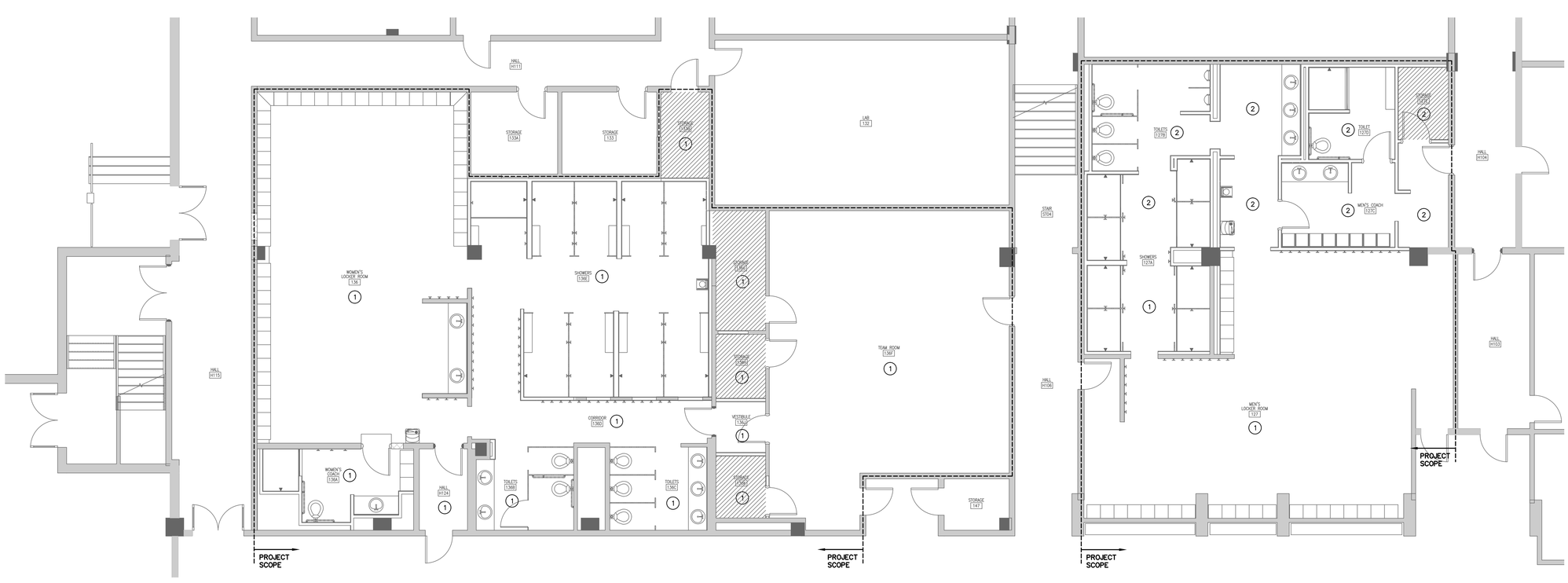
Name: Todd F. Swygert, P.E.
Engineering services provided through a firm: X Yes ☐ No
Firm name: Swygert and Associates, Ltd.
Address: Post Office Box 11686
City: Columbia
State: South Carolina Zip: 29211
Phone #: (803)791-9300 Fax #: (803)791-0830
E-mail: Todd@swygert-associates.com

SOUTH CAROLINA – SWYGERT AND ASSOCIATES, LTD. No. C00257 – CERTIFICATE OF AUTHORIZATION
Certificate of Authorization

SOUTH CAROLINA – REGISTERED PROFESSIONAL ENGINEER – No. 15574 – TODD F. SWYGERT
Professional Engineer's Seal

Revision No.: 0 — Page 1 of 1 — Signature: Todd F. Swygert — Date: 4/30/14

Form: Fire Sprinkler Specification Sheet
(Download latest @ http://www.llr.state.sc.us/fmarshal/index.asp?file=forms.htm)



N FP1.1 — FIRST FLOOR PLAN
SCALE: 3/16" = 1'-0"

Swygert & Associates
CONSULTING ENGINEERS
DBA Swygert & Assoc., Ltd.
Post Office Box 11686
Columbia, S.C. 29211
Telephone: (803) 791-9300
Facsimile: (803) 791-0830
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GARVINDESIGNGROUP
1209 Lincoln Street
P.O. Box 18
803.212.1032 p / 803.212.1074 f
Columbia, SC 29202

A/E SEAL — SOUTH CAROLINA — REGISTERED PROFESSIONAL ENGINEER — No. 15574 — TODD F. SWYGERT — 4-30-14

A/E SEAL — SOUTH CAROLINA — NOT VALID WITHOUT ORIGINAL SIGNATURE — SWYGERT AND ASSOCIATES, LTD. No. C00257 — CERTIFICATE OF AUTHORIZATION

PROJECT TITLE
SWIM TEAM LOCKER ROOM RENOVATIONS
University of South Carolina
Solomon Blatt Physical Education Center
1300 Wheat Street
Columbia, SC 29208 USC
Project No. H27-Z158

REVISIONS NO.	NAME	DATE

DRAWN BY: DEM
CHECKED BY: TFS

DRAWING TITLE
FIRST FLOOR PLAN AND NOTES

PROJECT NO. U328.13
DATE 04.30.14
DRAWING NO. **FP1.1**

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ELECTRICAL SYMBOL LEGEND

- A / 12 — LIGHTING FIXTURES (SEE LIGHTING FIXTURE SCHEDULE) (LETTER DENOTES TYPE, NUMBER DENOTES CIRCUIT)
- LIGHTING FIXTURES WITH BATTERY BACKED CIRCUIT POWER
- EXIT SIGN, SINGLE OR DOUBLE FACED, CEILING OR WALL MOUNTED, BATTERY BACKED
- Sb — SINGLE POLE SWITCH, FLUSH MOUNTED IN WALL AT 48" AFF T.O.B. (LETTER DENOTES SWITCHLEG)
- S3 — THREE WAY SWITCH FLUSH MOUNTED IN WALL AT 48" AFF T.O.B.
- S — MULTI-LEVEL SWITCHING CONFIGURATION, FLUSH MOUNTED IN WALL AT 48" AFF T.O.B. (ONE SWITCH CONTROLS ALL INBOARD LAMPS; OTHER SWITCH CONTROLS ALL OUTBOARD LAMPS).
- SD — DIMMER SWITCH FLUSH MOUNTED IN WALL AT 48" AFF T.O.B.
- NIGHT LIGHT (NO LOCAL SWITCHING)
- DUAL-TECHNOLOGY OCCUPANCY SENSOR, UNLESS NOTED OTHERWISE (WATTSTOPPER# DT-200/BZ-50 OR APPROVED EQUAL), CEILING OR WALL MOUNTED CLOSE TO CEILING.
- 12 — 20 AMP DUPLEX RECEPTACLE, FLUSH MOUNTED IN WALL AT 48" AFF (NUMBER DENOTES CIRCUIT)
- GFI WP — 20 AMP DUPLEX RECEPTACLE, FLUSH MOUNTED IN WALL AT 42" AFF OR 6" ABOVE COUNTER BACKSPLASH (GFI = GROUND FAULT INTERRUPTER) (WP = WEATHERPROOF METALLIC "IN-USE" TYPE COVER)
- 20 AMP DOUBLE DUPLEX RECEPTACLE, FLUSH MOUNTED IN WALL AT 18" AFF UNLESS NOTED OTHERWISE.
- 20 AMP DUPLEX RECEPTACLE, FLUSH MOUNTED IN CEILING
- TP — TELEPOWER POLE – COORDINATE LOCATION WITH FURNITURE AND CEILING EQUIPMENT. PROVIDE CONNECTIONS TO FURNITURE. PROVIDE SEPARATE CHANNELS FOR POWER AND COMMUNICATIONS CONDUCTORS.
- VOICE/DATA J-BOX, FLUSH MOUNTED IN WALL AT 18" AFF UNLESS NOTED OTHERWISE. PROVIDE A 4" SQUARE x 2" DEEP STEEL BOX WITH SINGLE-GANG PLASTER RING BLANK PLASTIC/PHENOLIC WALLPLATE. PROVIDE ONE 1" EMT RACEWAY WITH PULL STRING FROM BOX TO SPACE ABOVE DROP CEILING. TURN A 90 DEGREE BEND IN RACEWAY ABOVE DROP CEILING AND TURN TOWARD CABLE TRAY. PROVIDE A PLASTIC BUSHING ON BOTH ENDS OF RACEWAY.
- VOICE/DATA J-BOX, FLUSH MOUNTED IN WALL AT 42" AFF OR 6" ABOVE COUNTER BACKSPLASH UNLESS NOTED OTHERWISE. PROVIDE A 4" SQUARE x 2" DEEP STEEL BOX WITH SINGLE-GANG PLASTER RING BLANK PLASTIC/PHENOLIC WALLPLATE. PROVIDE ONE 1" EMT RACEWAY WITH PULL STRING FROM BOX TO SPACE ABOVE DROP CEILING. TURN A 90 DEGREE BEND IN RACEWAY ABOVE DROP CEILING AND TURN TOWARD CABLE TRAY. PROVIDE A PLASTIC BUSHING ON BOTH ENDS OF RACEWAY.
- VOICE/DATA J-BOX, FLUSH MOUNTED IN CEILING OR ABOVE CEILING. PROVIDE A 4" SQUARE x 2" DEEP STEEL BOX WITH SINGLE-GANG PLASTER RING BLANK PLASTIC/PHENOLIC WALLPLATE. PROVIDE ONE 1" EMT RACEWAY WITH PULL STRING FROM BOX TO SPACE ABOVE DROP CEILING. TURN A 90 DEGREE BEND IN RACEWAY ABOVE DROP CEILING AND TURN TOWARD CABLE TRAY. PROVIDE A PLASTIC BUSHING ON BOTH ENDS OF RACEWAY.
- FLOOR BOX, MULTI-SERVICE, FLUSH MOUNTED IN FLOOR (STEEL CITY# AFM-6 OR APPROVED EQUAL). PROVIDE ONE 20 AMP DUPLEX RECEPTACLE IN BOX. PROVIDE TWO SEPARATE CONDUITS (ONE POWER AND ONE VOICE/DATA) TO BOX.
- JUNCTION BOX, FLUSH MOUNTED IN WALL AT 18" AFF UNLESS NOTED OTHERWISE (FUNCTION AS INDICATED ON PLAN)
- JUNCTION BOX, FLUSH MOUNTED IN CEILING OR MOUNTED ABOVE CEILING (FUNCTION AS INDICATED ON PLAN)
- JUNCTION BOX, FLUSH MOUNTED IN FLOOR (FUNCTION AS INDICATED ON PLAN)
- ELECTRICAL PANELBOARDS, SURFACE AND FLUSH MOUNTED RESPECTIVELY
- ELECTRICAL SAFETY DISCONNECT SWITCH. PROVIDE SWITCH WITH RATINGS AS INDICATED IN THE DISCONNECT SWITCH SCHEDULE SHOWN ON THIS SHEET. SURFACE MOUNT SWITCH ON WALL OR EQUIPMENT AT LOCATION WHERE SWITCH HAS PROPER CLEARANCE IN ACCORDANCE WITH NEC.
- WIRE/CONDUIT NOTATION (SEE SCHEDULE ON THIS SHEET)
- ELECTRICAL CONNECTION TO A MOTOR, OR TO MOTOR DRIVEN EQUIPMENT
- MOTOR RATED SNAP SWITCH IN NEMA 1 ENCLOSURE
- CONTROL STATION (FUNCTION AS INDICATED ON PLAN), FLUSH MOUNT IN WALL AT 48" AFF T.O.B.

- F — FIRE ALARM MANUAL PULL STATION, SEMI-FLUSH MOUNT IN WALL AT 48" AFF T.O.B.
- V 60cd — FIRE ALARM VISIBLE-ONLY (STROBE) INDICATING DEVICE, SEMI-FLUSH MOUNTED IN CEILING (NUMBER INDICATES MINIMUM CANDELA RATING)
- HV 30cd — FIRE ALARM VISIBLE-ONLY (STROBE) INDICATING DEVICE, SEMI-FLUSH MOUNTED IN WALL AT 80" AFF (NUMBER INDICATES MINIMUM CANDELA RATING)
- 15cd — FIRE ALARM HORN/STROBE INDICATING DEVICE, SEMI-FLUSH MOUNTED IN CEILING (NUMBER INDICATES MINIMUM CANDELA RATING)
- FH 15cd WP — FIRE ALARM HORN/STROBE INDICATING DEVICE, (SPEAKER TYPE), SEMI-FLUSH MOUNTED IN WALL AT 80" AFF (WP = WEATHERPROOF RATED) (NUMBER INDICATES MINIMUM CANDELA RATING)
- PHOTOELECTRIC SPOT-TYPE SMOKE DETECTOR. SEMI-FLUSH MOUNT DETECTOR IN CEILING.
- PHOTOELECTRIC SPOT-TYPE SMOKE DETECTOR. WALL MOUNTED IN ELEVATOR PIT.
- 135 DEGREE SPOT-TYPE HEAT DETECTOR, FIXED TEMPERATURE. SEMI-FLUSH MOUNT DETECTOR IN CEILING.
- 135 DEGREE SPOT-TYPE HEAT DETECTOR, FIXED TEMPERATURE, WALL MOUNTED IN ELEVATOR PIT.
- DUCT TYPE SMOKE DETECTOR.
- DUCT DETECTOR TEST STATION, WALL MOUNTED 54" AFF.
- SPRINKLER SYSTEM FLOW SWITCH.
- SPRINKLER VALVE TAMPER SWITCH.
- SPRINKLER SYSTEM PRESSURE SWITCH.
- AIU — ADDRESSABLE INTERFACE UNIT, CONTROL OR MONITOR TYPE AS APPLICABLE, MOUNT IN NEMA 1 ENCLOSURE.
- PIV — POST-INDICATING VALVE.
- CONTROL PANELS (SYSTEM AS INDICATED), SURFACE AND FLUSH MOUNTED RESPECTIVELY.
- SECURITY CAMERA JUNCTION BOX
- ELECTRIC DOOR STRIKE
- R — CARD READER JUNCTION BOX, 4" SQUARE, SEMI-FLUSH MOUNTED IN WALL AT 48" T.O.B. UNLESS NOTED OTHERWISE. PROVIDE 3/4" CONDUIT FROM BOX TO ABOVE CEILING WITH 90° BEND & SINGLE GANG PLASTER RING
- K — SECURITY SYSTEM KEYPAD JUNCTION BOX, 4" SQUARE, SEMI-FLUSH MOUNTED IN WALL AT 48" T.O.B. UNLESS NOTED OTHERWISE. PROVIDE 3/4" CONDUIT FROM BOX TO ABOVE CEILING WITH 90° BEND & SINGLE GANG PLASTER RING
- EDH — ELECTRONIC DOOR HOLDER, FLOOR MOUNTED
- HEDH — ELECTRONIC DOOR HOLDER, WALL MOUNTED
- CATV — CATV OUTLET, FLUSH MOUNTED IN CEILING UNLESS NOTED OTHERWISE.
- HCATV — CATV OUTLET, FLUSH MOUNTED IN WALL AT 18" AFF UNLESS NOTED OTHERWISE.
- SP — SPEAKER JUNCTION BOX, SEMI-FLUSH MOUNTED IN CEILING UNLESS NOTED OTHERWISE.
- HSP — SPEAKER JUNCTION BOX, SEMI-FLUSH MOUNTED IN WALL AT 80" AFF UNLESS NOTED OTHERWISE.
- M — SECURITY SYSTEM MOTION DETECTOR JUNCTION BOX, SEMI-FLUSH MOUNTED IN CEILING. UNLESS NOTED OTHERWISE.
- HM — SECURITY SYSTEM MOTION DETECTOR JUNCTION BOX, SEMI-FLUSH MOUNTED IN WALL AT 80" AFF.
- 1 — LIGHTING CONTROL SCHEM MARK, SEE SCHEDULE
- LIGHT LINE REPRESENTS EXISTING DEVICE, FIXTURE, OR EQUIPMENT TO REMAIN IN PLACE.
- DASHED LINE REPRESENTS EXISTING DEVICE, FIXTURE, OR EQUIPMENT TO BE REMOVED. SEE DEMOLITION/RENOVATION NOTATION SCHEDULE FOR DETAILED INFORMATION.

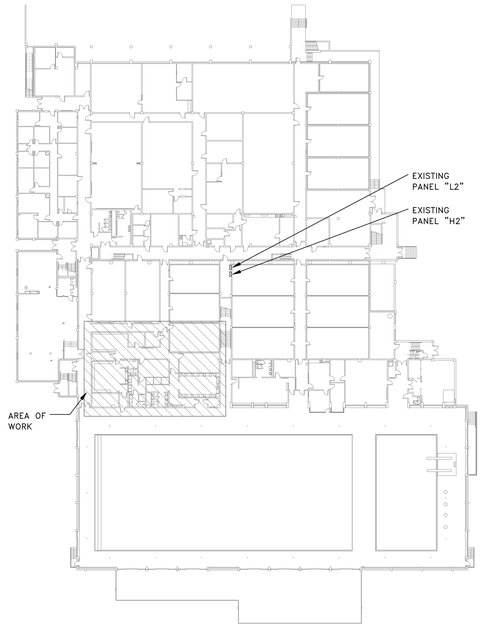
MOUNTING HEIGHTS INDICATED IN THIS LEGEND SHALL BE TO CENTERLINE OF DEVICE BOX. ALL SWITCHES AND PULL STATIONS SHALL BE INSTALLED TO BE 48" AFF TO TOP OF BOX UNLESS NOTED OTHERWISE.

GENERAL NOTES

1. EXISTING BRANCH CIRCUITS LISTED WERE TAKEN FROM AS-BUILT DOCUMENTS AND HAVE NOT BEEN FIELD VERIFIED. CONTRACTOR SHALL FIELD VERIFY SOURCE OF BRANCH CIRCUITS PRIOR TO WORK.
2. ALL CIRCUITS SHALL BE 2#12, 1#12 GND. IN 3/4"C. UNLESS NOTED OTHERWISE.
3. COMMUNICATIONS, SECURITY CAMERAS, AND ACCESS CONTROL SYSTEM RACEWAYS SHALL BE ROUTED FROM DEVICE LOCATIONS TO CONSOLIDATION JUNCTION BOX. SEE PLANS FOR DETAILS.
4. ALL WORK SHALL COMPLY WITH NFPA70.2011 (NATIONAL ELECTRIC CODE).
5. ELECTRICAL LAYOUT DRAWINGS ARE DIGRAMMATIC. COORDINATE ALL WORK WITH ARCHITECTURAL, CIVIL, STRUCTURAL, AND MECHANICAL CONTRACT DOCUMENTS.
6. INSTALL THE ELECTRICAL SYSTEM WITHOUT INTERFERING WITH DUCTS, PIPES, STRUCTURAL STEEL, OR OTHER SYSTEMS.
7. LOCATE LIGHTING FIXTURES SYMMETRICALLY IN THE PROPER RELATION TO FINISHED AREAS, EXCEPT WHERE DIMENSIONED ON DRAWINGS OR LOCATED ON REFLECTED CEILING PLANS.
8. PROVIDE TWO #12 STEEL, SLACK CABLES TO STRUCTURE FROM EACH FIXTURE MOUNTED IN A GRID CEILING.
9. MOUNT GROUPED DEVICES IN A SINGLE CONTINUOUS MULTI-GANG BOX.
10. EMT FITTINGS SHALL BE OF THE COMPRESSION TYPE. SET SCREW OR INDENTOR TYPE FITTINGS SHALL NOT BE USED.
11. OUTLETS WHICH OCCUR ON OPPOSITE SIDES OF A COMMON WALL SHALL BE OFFSET A MINIMUM OF 12 INCHES.
12. WALL PENETRATIONS FOR RACEWAYS SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR. PROVIDE FIRESTOPPING AROUND RACEWAYS PENETRATING RATED WALLS PER ARCHITECTURAL DRAWINGS. PROVIDE DRAFTSTOP SEAL AT NON-RATED WALLS.

ELECTRICAL ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIU	ADDRESSABLE INTERFACE UNIT
AL	ALUMINUM
BEC	BY ELECTRICAL CONTRACTOR
BGC	BY GENERAL CONTRACTOR
BOF	BOTTOM OF FIXTURE
C	CONDUIT
CU	COPPER
DACT	DIGITAL ALARM COMMUNICATOR TRANSMITTER
FAA	FIRE ALARM ANNUNCIATOR
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
GFI	GROUND FAULT INTERRUPTER
IG	ISOLATED GROUND
J-BOX	JUNCTION BOX
MB	MAIN BREAKER
MD	MOTOR DAMPER
MH	MOUNTING HEIGHT
MLO	MAIN LUGS ONLY
NCE	NOT CONCRETE ENCASED
NEC	NATIONAL ELECTRICAL CODE
NF	NON-FUSIBLE
NIC	NOT IN CONTRACT
PIV	POST INDICATING VALVE
SD	SMOKE DAMPER
SW	SWITCH
TOB	TOP OF BOX
TOF	TOP OF FIXTURE
UC	UNDERCOUNTER
WP	WEATHERPROOF



1 / E0.1 KEYPLAN
SCALE: NOT TO SCALE

LIGHTING FIXTURE SCHEDULE

Symbol	Type Mark	Description	Manufacturer	Model	Optical Element	Mounting	Voltage	Lamps
	A	2'x2' FLUORESCENT GRID TROFFER, WET LISTED	LITHONIA	WRT G317 A12125V MVOLT GEB10IS	.125 ACRYLIC LENS	GRID	277 V	3 – 17W T8 / 841
	AE	2'x2' FLUORESCENT GRID TROFFER, 2 LAMPS, BATT. PACK INCLUDED, WET LISTED	LITHONIA	WRT G317 A12125V MVOLT GEB10IS EL14DW	.125 ACRYLIC LENS	GRID	277 V	3 – 17W T8 / 841
	B	1'x4' SURFACE MOUNTED FLUORESCENT FIXTURE	LITHONIA	LB 232 MVOLT GEB10IS	ACRYLIC LENS	CEILING	277 V	2 – 32W T8 / 841
	C	WET LISTED LED DOWNLIGHT	LITHONIA	DOM6 LED 600L 40K DL61	GLASS LENS	CEILING	277 V	LED (15.6W, 500 LUMENS, 840)
	CE	WET LISTED LED DOWNLIGHT	LITHONIA	DOM6 LED 600L 40K DL61 ELRB722	GLASS LENS	CEILING	277 V	LED (15.6W, 500 LUMENS, 840)
	D	FLUORESCENT PERIMETER SYSTEM FIXTURE	FOCAL POINT	FW3 NS 1T8 1C 277 E RC SS WH *LENGTH*	NONE	RECESSED	277 V	1 – 32W T8 / 841
	F	SMALL STRUCTURAL TRUSS SYSTEM – LINEAR FLUORESCENT FIXTURE WITH NATATORIUM FINISH	SPI LIGHTING	LFL 1454	–	SUSPENDED TO 9'-6" AFF	277 V	4 – 54WT5HO / 841
	F2	DIRECTIONAL FLOOD LIGHT SUPPORTED FROM LIGHTRUSS SYSTEM	CONTECH LIGHTING	8051 VT M 4 N-S WITH PIPE CLAMP	–	TIED TO LIGHTRUSS SYSTEM	277 V	LED (14W, 1000 LUMENS, 840)
	FE	SAME AS TYPE "F" EXCEPT WITH INTEGRAL 1400-LUMEN BATTERY PACK.	SPI LIGHTING	LFL 1454 EMI	–	SUSPENDED TO 9'-6" AFF	277 V	4 – 54WT5HO / 841
	G4	4' WET-LISTED VANITY FIXTURE	AXIS LIGHTING	WBW S 4 T5 2 AP 277 ERS 1	SATIN LENS	WALL MOUNT ABOVE VANITY	277 V	2 – 28W T5 / 840
	G6	6' WET-LISTED VANITY FIXTURE	AXIS LIGHTING	WBW S 6 T5 2 AP 277 ERS 1	SATIN LENS	WALL MOUNT ABOVE VANITY	0 V	4 – 21W T5 / 840
	G8	8' WET-LISTED VANITY FIXTURE	AXIS LIGHTING	WBW S 8 T5 2 AP 277 ERS 1	SATIN LENS	WALL MOUNT ABOVE VANITY	0 V	4 – 28W T5 / 840
	H	4' HORIZONTAL WALL MOUNT FIXTURE WITH NATATORIUM FINISH	SPI LIGHTING	SFWZ 1 F28 120 4' SBC 004	SATIN LENS	WALL MOUNT ABOVE VANITY	277 V	1 – 28W T5 / 840
	X	LED EXIT SIGN WITH NiCad BATT., RED LETTERS AND WHITE CANOPY, 1 FACE	LITHONIA	LQM S W 3 R 120/277 ELN	NONE	AS SHOWN	277 V	L.E.D. INCLUDED

GENERAL LIGHTING NOTES

1. VOLTAGE DIFFERS BASED ON EACH PARTICULAR SCHOOL. CONTRACTOR SHALL FIELD VERIFY SOURCE OF EXISTING LIGHTING BRANCH CIRCUITS IN SCOPE OF WORK AND DETERMINE VOLTAGE REQUIRED BASED ON FINDINGS.
2. LIGHTING FIXTURE MANUFACTURERS LISTED ARE BASIS OF DESIGN. PRIOR APPROVED EQUAL IS DEFINED TO BE A MANUFACTURER CAPABLE OF PROVIDING A FIXTURE EQUAL TO THE BASIS OF DESIGN. PRIOR APPROVED EQUAL MANUFACTURERS ARE AS LISTED BELOW:
   - 2.1. TYPE A, AE, B: HE WILLIAMS, COLUMBIA, DAY-BRITE, METALUX.
   - 2.2. TYPE C: JUNO, PRESCOLITE, LIGHTOLIER, PORTFOLIO.
   - 2.3. TYPE D: PINNACLE, PRUDENTIAL, LIGHTOLIER, NEO-RAY
   - 2.4. TYPE G: PINNACLE
3. LOCATE LIGHTING FIXTURES SYMMETRICALLY IN THE PROPER RELATION TO FINISHED AREAS, EXCEPT WHERE DIMENSIONED ON DRAWINGS OR LOCATED ON REFLECTED CEILING PLANS. COORDINATE LIGHTING FIXTURE LOCATIONS WITH EQUIPMENT IN EQUIPMENT ROOMS. NOTIFY A/E OF CONFLICTS PRIOR TO ANY ROUGH-IN INSTALLATION.
4. LIGHTING FIXTURE CATALOG NUMBERS ARE INDICATIVE OF THE STYLE OF THE FIXTURE REQUIRED. CONTRACTOR SHALL PROVIDE FIXTURES WITH THE PROPER TRIM, VOLTAGE, AND OPTIONS NECESSARY FOR INSTALLATION.
5. PROVIDE TWO #12 STEEL, SLACK CABLES TO STRUCTURE FROM EACH FIXTURE MOUNTED IN A GRID CEILING.
6. WHERE *LENGTH* IS INDICATED IN THE SCHEDULE, THE CONTRACTOR SHALL PROVIDE FIXTURE LENGTHS AS REQUIRED TO EXTEND THE ENTIRE LENGTH OF THE WALL SHOWN ON THE LIGHTING PLANS. UTILIZE THE MOST COST EFFECTIVE COMBINATION OF LENGTHS TO ACHIEVE TOTAL LENGTH.
7. FOR TYPES "F", "FE", "FB" PROVIDE ALL COMPONENTS NECESSARY TO PROVIDE A COMPLETE TRUSS SYSTEM AS SHOWN ON DRAWINGS. SUBMIT SHOP DRAWINGS FOR ENTIRE TRUSS SYSTEM FOR ARCHITECTURAL AND ENGINEERING REVIEW. COORDINATE MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLTION.

DISCONNECT SWITCH SCHEDULE

ID	AMPS	POLES	VOLTAGE	NEMA ENCLOSURE
1	30	2	208V	1
2	30	2	208V	3R
3	30	3	208V	1
4	30	3	208V	3R
5	60	3	208V	1
6	60	3	208V	3R
7	100	3	208V	1
8	100	3	208V	3R
9	200	3	208V	1
10	200	3	208V	3R
11	30	3	480V	1
12	30	3	480V	3R
13	60	3	480V	1
14	60	3	480V	3R
15	100	3	480V	1
16	100	3	480V	3R
17	200	3	480V	1
18	200	3	480V	3R
19	400	3	480V	1
20	400	3	480V	3R

ALL SWITCHES SHALL BE GENERAL DUTY TYPE, FUSIBLE UNLESS NOTED WITH "NF" (NON-FUSIBLE)

M – DENOTES DISCONNECT SWITCH INTEGRAL WITH MECHANICAL EQUIPMENT.

ELEVATOR EQUIPMENT ROOM DISCONNECTS SHALL HAVE AUXILIARY CONTACT WITH TWO WIRE CONTROL CIRCUIT TO ELEVATOR UNIT.

WIRE/CONDUIT SCHEDULE

ID	WIRE	CONDUIT
1	2#12, 1#12 GND.	3/4"
2	3#12, 1#12 GND.	3/4"
3	4#12, 1#12 GND.	3/4"
4	2#10, 1#10 GND.	3/4"
5	3#10, 1#10 GND.	3/4"
6	4#10, 1#10 GND.	3/4"
7	2#8, 1#10 GND.	3/4"
8	3#8, 1#10 GND	1"
9	4#8, 1#10 GND.	1"
10	3#6, 1#8 GND.	1"
11	4#6, 1#8 GND.	1-1/4"
12	3#4, 1#8 GND.	1-1/4"
13	4#4, 1#8 GND.	1-1/4"
14	3#3, 1#8 GND.	1-1/4"
15	4#3, 1#8 GND.	1-1/2"
16	3#2, 1#6 GND.	1-1/2"
17	4#2, 1#6 GND.	1-1/2"
18	3#1, 1#6 GND.	1-1/2"
19	4#1, 1#6 GND.	2"
20	3 #1/0, 1#6 GND.	2"
21	4 #1/0, 1#6 GND.	2"
22	3 #2/0, 1#6 GND.	2"
23	4 #2/0, 1#6 GND.	2"
24	3 #3/0, 1#6 GND.	2"
25	4 #3/0, 1#6 GND.	2-1/2"
26	3 #4/0, 1#4 GND.	2-1/2"
27	4 #4/0, 1#4 GND.	2-1/2"
28	3-250KCMil, 1#4 GND.	2-1/2"
29	4-250KCMil, 1#4 GND.	3"
30	3-350KCMil, 1#3 GND.	3"
31	4-350KCMil, 1#3 GND.	3"
32	3-500KCMil, 1#3 GND.	3"
33	4-500KCMil, 1#3 GND.	4"
34	3-600KCMil, 1#2 GND.	3-1/2"
35	4-600KCMil, 1#2 GND.	4"
36	3-750KCMil, 1#2 GND.	4"
37	4-750KCMil, 1#2 GND.	5"

ALL OTHER CIRCUITS SHALL BE 2#12, 1#12 GND., 3/4"C., UNLESS NOTED.

DEMOLITION/RENOVATION NOTATION

- E — EXISTING FIXTURE OR DEVICE TO REMAIN IN PLACE. REPLACE ANY BROKEN DEVICES OR PLATES; COLOR TO MATCH EXISTING.
- R — EXISTING FIXTURE OR DEVICE TO BE REMOVED BY THE ELECTRICAL CONTRACTOR. MAINTAIN CONTINUITY OF REMAINING PORTIONS OF BRANCH CIRCUIT.
- RE — EXISTING DEVICE TO BE REMOVED BY THE ELECTRICAL CONTRACTOR. EXISTING CIRCUIT SHALL BE RETAINED. PROVIDE NEW DEVICE AS SHOWN ON RENOVATION PLANS.
- RR — EXISTING FIXTURE TO BE RELOCATED BY THE ELECTRICAL CONTRACTOR TO NEW LOCATION SHOWN ON RENOVATION PLAN.
- RN — RELOCATED FIXTURE (NEW LOCATION)

ELECTRICAL DRAWING INDEX

GA21404

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SOUTH CAROLINA BELKA ENGINEERING ASSOC. INC. No. C00953 CERTIFICATE OF AUTHORIZATION — AE SEAL

SOUTH CAROLINA PROFESSIONAL ENGINEER 9-30-15 No. 26181 JAMES L. AREHEART — AE SEAL

PROJECT TITLE: BLATT NATATORIUM RENOVATIONS
University of South Carolina
Columbia, SC 29201

100% BID SET

REVISIONS — NO. / NAME / DATE

DRAWN BY: JJS
CHECKED BY: JLA

DRAWING TITLE: ELECTRICAL SYMBOL LEGEND & SCHEDULES

PROJECT NO. L0305.13
DATE 04.23.14

DRAWING NO. E0.1

1 FIRST FLOOR LIGHTING DEMOLITION PLAN

E1.1 SCALE: 1/4" = 1'-0"

LIGHTING DEMOLITION NOTES

1 AS-BUILT DRAWINGS INDICATE THE EXISTING LIGHTING IN THE MEN'S LOCKER ROOM IS SERVED FROM BRANCH CIRCUIT H2-3. CONTRACTOR SHALL FIELD VERIFY SOURCE PRIOR TO WORK.

2 AS-BUILT DRAWINGS INDICATE THE EXISTING LIGHTING IN THE RACQUETBALL COURT IS SERVED FROM BRANCH CIRCUIT H2-15. CONTRACTOR SHALL FIELD VERIFY SOURCE PRIOR TO WORK. DISCONNECT EXISTING LIGHTING FIXTURES AND REMOVE ASSOCIATED LAMPS. ABANDON FIXTURES IN PLACE. DISCONNECT AND REMOVE ALL ASSOCIATED LIGHT SWITCHES. PROVIDE BLANK COVER PLATES WHERE SWITCHES ARE REMOVED.

3 AS-BUILT DRAWINGS INDICATE THE EXISTING LIGHTING IN THE WOMEN'S LOCKER ROOM AND TEAM ROOM IS SERVED FROM BRANCH CIRCUIT H2-4. CONTRACTOR SHALL FIELD VERIFY SOURCE PRIOR TO WORK.

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University of South Carolina
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100% BID SET

REVISIONS

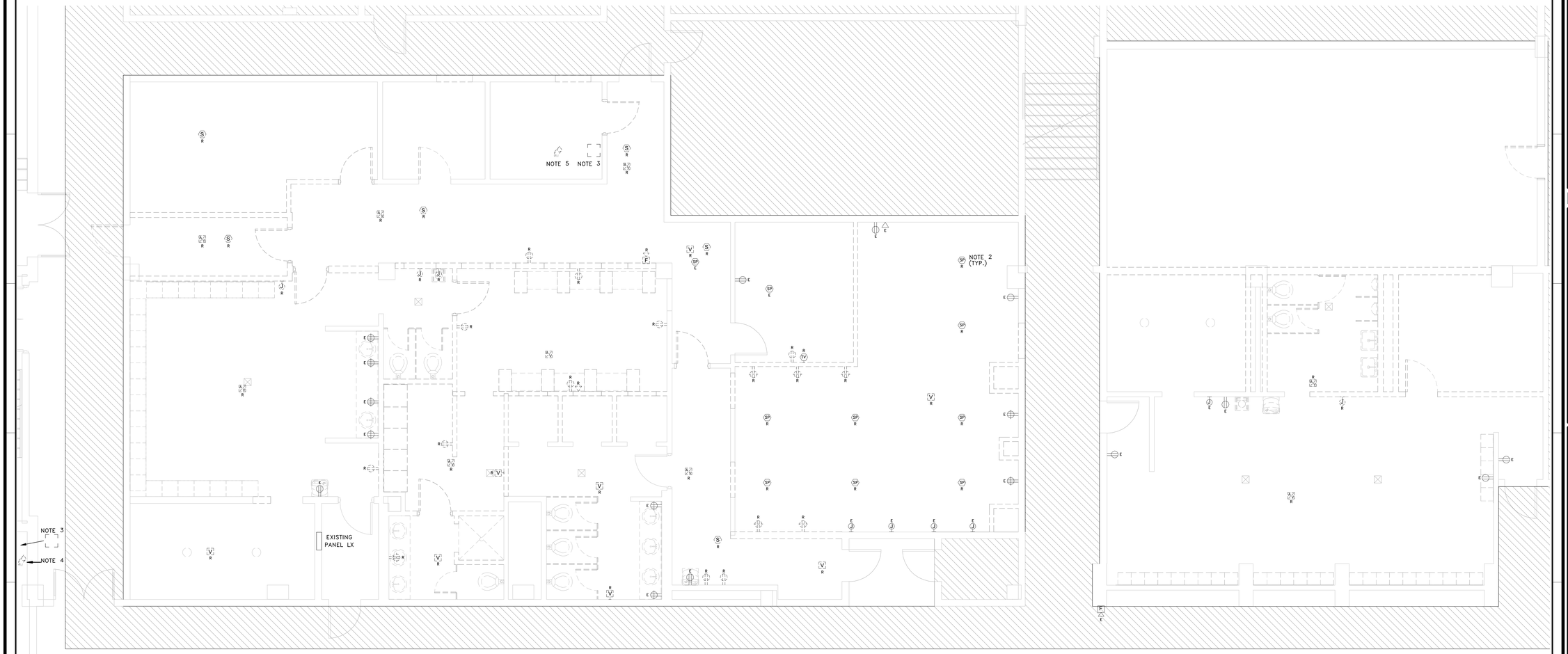
NO.	NAME	DATE

DRAWN BY: JJS
CHECKED BY: JLA

DRAWING TITLE
LIGHTING DEMOLITION PLAN

PROJECT NO. LG08.13
DATE 04.23.14

DRAWING NO.
E1.1



1 FIRST FLOOR POWER/SYSTEMS DEMOLITION PLAN

E1.2 SCALE: 1/4" = 1'-0"

POWER/SYSTEMS DEMOLITION NOTES

1 FIELD VERIFY SOURCE OF ALL BRANCH CIRCUITS PRIOR TO WORK.

2 SPEAKERS DESIGNATED FOR REMOVAL SHALL BE TURNED OVER TO OWNER.

3 ELECTRICAL CONTRACTOR SHALL DISCONNECT FEEDERS FOR THIS SPLIT SYSTEM. DEMOLISH BRANCH CIRCUITS IN THEIR ENTIRETY. LABEL BREAKER IN PANEL H9 AS SPARE. BREAKER IN PANEL L9 SHALL BE REPLACED IN RENOVATION PHASE.

4 ELECTRICAL CONTRACTOR SHALL DISCONNECT FEEDER FOR THIS EXHAUST FAN. MAINTAIN CONTINUITY OF REMAINING BRANCH CIRCUIT.

5 ELECTRICAL CONTRACTOR SHALL DISCONNECT FEEDER FOR CP-1. CIRCUIT SHALL BE EXTENDED IN RENOVATION PHASE TO FEED NEW EXHAUST FAN.

EXISTING

Branch Panel: LX

Location: HALL H124 **Volts:** 120/208 Single **A.I.C. Rating:** 10,000
Supply From: EXISTING PANEL "L2" **Phases:** 1 **Mains Type:** MCB
Mounting: Recessed **Wires:** 3 **Mains Rating:** 60 A
Enclosure: Type 1 **MCB Rating:** 60 A

Notes:

CKT	Circuit Description	Wire ID	Trip	Poles	A		B		Poles	Trip	Wire ID	Circuit Description	CKT
1	SUITMATE - WOMEN'S		0 A	1	0.0 kVA	0.0 kVA			1	0 A		HAIR / HAND DRYER	2
3	SUITMATE - MEN'S		0 A	1			0.0 kVA	0.0 kVA	1	0 A		VANITY LIGHTING	4
5	WATER FOUNTAIN		0 A	1	0.0 kVA	0.0 kVA			1	0 A		VANITY RECPS.	6
7	EXHAUST FAN		0 A	1			0.0 kVA	0.0 kVA	1	0 A		VANITY RECPS.	8
9	MAIN CIRCUIT BREAKER		0 A	2	0.0 kVA	0.0 kVA			1	0 A		Spare	10
11							0.0 kVA	0.0 kVA	1	0 A		Spare	12
				Total Load:	0.0 kVA		0.0 kVA						
				Total Amps:	0 A		0 A						

Legend:

Panel Totals
Total Conn. Load: 0 VA

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100% BID SET

REVISIONS

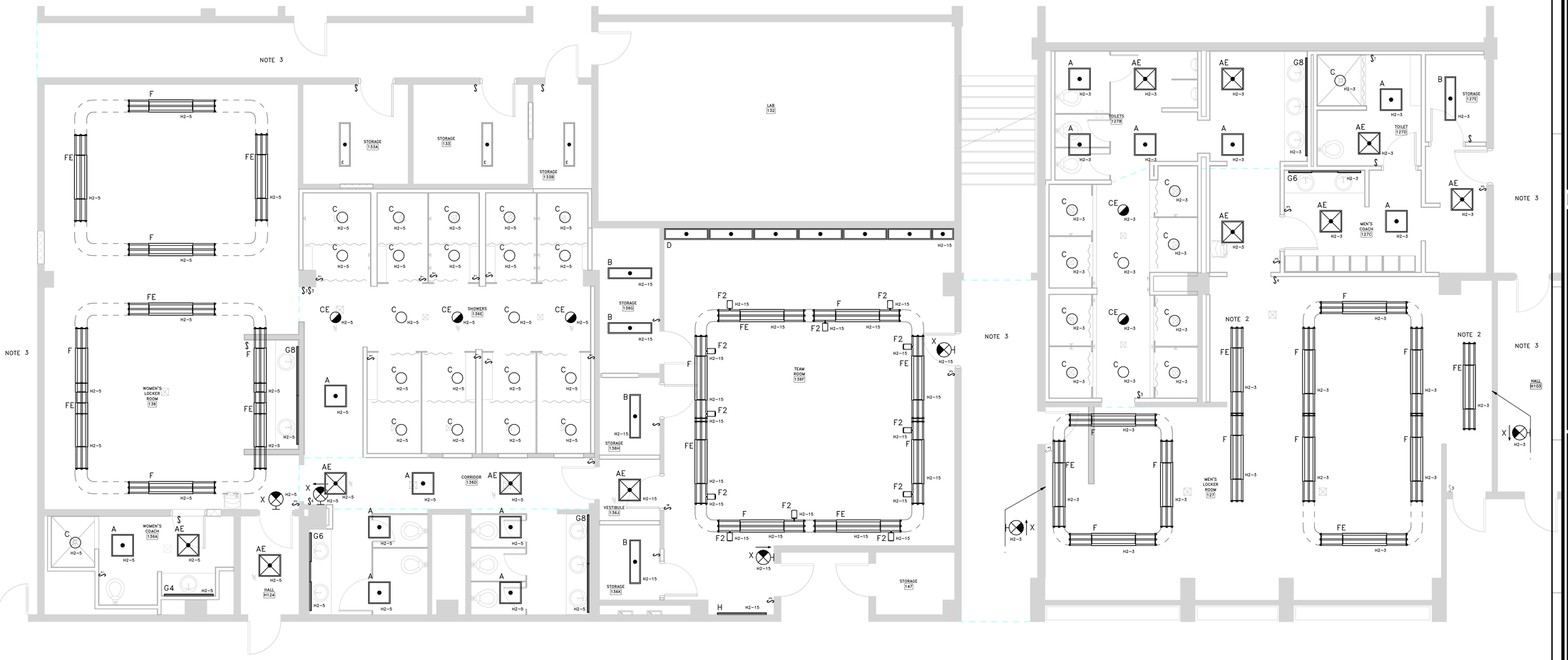
NO.	NAME	DATE

DRAWN BY: JJS CHECKED BY: JLA

DRAWING TITLE: POWER/SYSTEMS DEMOLITION PLAN

PROJECT NO. LD28.13 DATE 04.23.14

DRAWING NO. E1.2



1 FIRST FLOOR LIGHTING RENOVATION PLAN

E2.1 SCALE: 1/4" = 1'-0"

LIGHTING RENOVATION NOTES

1. INTENT IS FOR EXISTING LIGHTING BRANCH CIRCUIT IN EACH SPACE TO BE USED FOR NEW LIGHTING SYSTEMS. FIELD VERIFY SOURCE OF EACH BRANCH CIRCUIT PRIOR TO WORK.
2. INVERT TYPE "F" FIXTURES REFERENCED TO THIS NOTE SUCH THAT FIXTURES' LENS ARE DOWN. ALL OTHER TYPE "F" FIXTURES SHALL BE ORIENTED FOR INDIRECT TYPE LIGHTING.
3. CEILING IN THIS AREA SHALL BE REMOVED TO ACCOMODATE DIVISION 23 WORK. PROTECT ALL EXISTING LIGHTING FIXTURES, FIRE ALARM DEVICES, AND ANY OTHER ELECTRICAL SYSTEMS FROM DAMAGE DURING WORK. TEMPORARILY DISCONNECT AND REMOVE EXISTING LIGHTING FIXTURES AND OTHER CEILING MOUNTED EQUIPMENT DURING MECHANICAL WORK AND RE-INSTALL ONCE DUCT WORK IS COMPLETE.

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A/E SEAL: SOUTH CAROLINA PROFESSIONAL ENGINEER 7-20-11 No. 26181 JASON L. AREHEART

100% BID SET

PROJECT TITLE: BLATT NATATORIUM RENOVATIONS
University of South Carolina
Columbia, SC 29201

REVISIONS

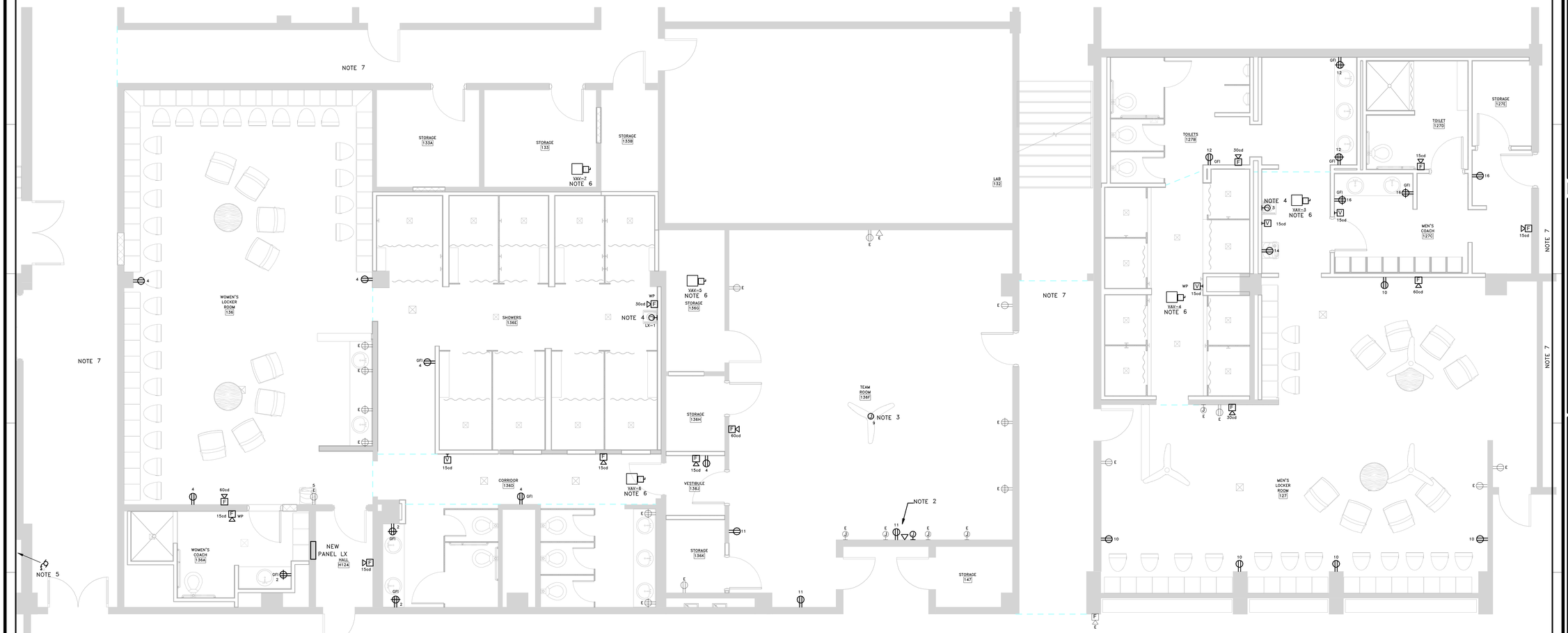
NO.	NAME	DATE

DRAWN BY: JJS
CHECKED BY: JLA

DRAWING TITLE: LIGHTING RENOVATION PLAN

PROJECT NO. 1205.13
DATE 04.23.14

DRAWING NO. E2.1



1 FIRST FLOOR POWER/SYSTEMS RENOVATION PLAN

E2.2 SCALE: 1/4" = 1'–0"

POWER/SYSTEMS RENOVATION NOTES

1 ALL ELECTRICAL EQUIPMENT AND DEVICES ON THIS SHEET SHALL BE FED FROM PANEL "LX" WITH CIRCUIT NUMBERS AS INDICATED.

2 PROVIDE DUPLEX RECEPTACLE, DATA JUNCTION BOX, AND A/V JUNCTION BOX SURFACE MOUNTED ON WALL CONCEALED BY TV. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH–IN.

3 PROVIDE ELECTRICAL CONNECTION TO CEILING FAN (FURNISHED AND INSTALLED BY DIVISION 23). PROVIDE CONTROL WIRING AND MAKE ALL REQUIRED CONNECTIONS.

4 PROVIDE HARDWIRED CONNECTION TO EXISTING RELOCATED SUITMATE EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.

5 EXTEND CIRCUIT THAT PREVIOIUSLY FED CP–1 TO NEW EXHAUST FAN LOCATION.

6 CONTRACTOR SHALL PROVIDE TWO 20 AMP SINGLE POLE BREAKERS IN THE PLACE OF THE 20 AMP TWO POLE BREAKER WHICH PREVIOUSLY FED AH–1. LABEL ONE BREAKER AS A SPARE. THE OTHER BREAKER SHALL FEED NEW VAVS.

7 CEILING IN THIS AREA SHALL BE REMOVED TO ACCOMODATE DIVISION 23 WORK. PROTECT ALL EXISTING LIGHTING FIXTURES, FIRE ALARM DEVICES, AND ANY OTHER ELECTRICAL SYSTEMS FROM DAMAGE DURING WORK. TEMPORARILY DISCONNECT AND REMOVE EXISTING LIGHTING FIXTURES AND OTHER CEILING MOUNTED EQUIPMENT DURING MECHANICAL WORK AND RE–INSTALL ONCE DUCT WORK IS COMPLETE.

NEW

Branch Panel: LX

Location: HALL H124 **Volts:** 120/208 Single **A.I.C. Rating:** 10,000
Supply From: EXISTING PANEL "L2" **Phases:** 1 **Mains Type:** MCB
Mounting: Recessed **Wires:** 3 **Mains Rating:** 60 A
Enclosure: Type 1 **MCB Rating:** 60 A

Notes:
* - CIRCUIT NUMBER(S) 14 SHALL BE GFCI BREAKER TYPE.

CKT	Circuit Description	Wire ID	Trip	Poles	A		B		Poles	Trip	Wire ID	Circuit Description	CKT
1	SUITMATE - WOMEN'S		20 A	1	1.4 kVA	0.6 kVA			1	20 A		RECPS. - WOMEN'S	2
3	SUITMATE - MEN'S		20 A	1			1.4 kVA	1.2 kVA	1	20 A		RECPS. - WOMEN'S	4
5	WATER FOUNTAIN		20 A	1	0.2 kVA	0.4 kVA			1	20 A		VANITY RECPS. - WOMEN'S	6
7	EXHAUST FAN		20 A	1			0.0 kVA	0.4 kVA	1	20 A		VANITY RECPS. - WOMEN'S	8
9	CEILING FAN		20 A	1	1.0 kVA	1.0 kVA			1	20 A		RECPS. - MEN'S	10
11	RECPS. / TV		20 A	1			0.6 kVA	0.6 kVA	1	20 A		VANITY RECPS. - MEN'S	12
13	Spare		20 A	1	0.0 kVA	0.2 kVA			1	20 A		EWC - GFI BREAKER *	14
15	Spare		20 A	1			0.0 kVA	0.6 kVA	1	20 A		VANITY RECPS. - MEN'S COACH	16
17	Spare		20 A	1	0.0 kVA	0.0 kVA			1	20 A		Spare	18
				Total Load:	4.8 kVA		4.8 kVA						
				Total Amps:	46 A		46 A						

Legend:

Panel Totals	
Total Conn. Load:	9600 VA

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PROJECT TITLE
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100% BID SET

REVISIONS

NO.	NAME	DATE

DRAWN BY: JJS
CHECKED BY: JLA

DRAWING TITLE
POWER/SYSTEMS RENOVATION PLAN

PROJECT NO. L028.13
DATE 04.23.14

DRAWING NO. E2.2