

Building Code Information

INTERNATIONAL BUILDING CODE		2006	
BUILDING CODE ITEM	CODE SECTION OR REFERENCE		PROPOSED STRUCTURE
OCCUPANCY CLASSIFICATION	CHAPTER 3		BUSINESS - B
CONSTRUCTION TYPE	CHAPTER 6		TYPE V-B - NOT SPRINKLED
BUILDING AREA (SQUARE FEET - PER FLOOR)	ACTUAL SF.	CHAPTER 5	
		FIRST FLOOR	11,541 SF.
		SECOND FLOOR	N/A
		(TOTAL)	11,541 SF.
	ALLOWED	TABLE 503	9,000 SF.
	FRONT, INCRS.	SEC. 506.2	6,525 SF. (12.5%)
	SPRINK. INCRS.	SEC. 506.3	NOT REQD
	TOTAL ALLOW.	SEC. 506.2	15,252 SF
BUILDING HEIGHT (FEET , INCHES)	ACTUAL	CHAPTER 5	18'
	ALLOWED	TABLE 503	40'
	INCREASE	SEC 504.1	NOT REQD
MAX. NUMBER OF BUILDING STORIES	ACTUAL	CHAPTER 5	1
	ALLOWED	TABLE 500	1
STRUCTURAL MEMBERS		CHAPTER 6	RATING REQUIREMENT OF ELEMENT
STRUCTURAL FRAME		TABLE 601	0
EXTERIOR BEARING WALLS		TABLE 601	0
INTERIOR BEARING WALLS		TABLE 601	0
INTERIOR NON-BEARING WALLS		TABLE 601	0
FLOOR / CEILING ASSEMBLY		TABLE 601	0
ROOF / CEILING ASSEMBLY		TABLE 601	0
FIRE RESISTANCE FOR EXTERIOR WALLS BASED ON SEPARATION DIST.		TABLE 602	TYPE IV-B GROUP B BETWEEN 10' AND 30' - 0 LESS THAN 5' - 1

Basic Review Information

1. SITE DEVELOPMENT

A. AREA OF SITE DEVELOPMENT
B. MUNICIPALITY AND/OR COUNTY OF PROJECT:
- 86.4 ACRES

CITY OF WALTERBORO / COLLETON COUNTY, S.C.
2. PRIMARY OCCUPANCY CLASSIFICATION:

SECONDARY OCCUPANCY CLASSIFICATION:
- BUSINESS

ASSEMBLY
3. BUILDING AREA OF DISTURBANCE:

1,063 S.F. ± 12%

Occupant Load

- PER 1004.12

1. GROUP B - BUSINESS - 100 S.F. GROSS PER OCCUPANT
1941 S.F. AT 100 S.F. GROSS = 19.41 OCCUPANTS

2. GROUP A-2 - ASSEMBLY - 50 S.F. GROSS PER OCCUPANT
291 S.F. AT 50 S.F. GROSS = 5.94 OCCUPANTS

3. GROUP ACCESSORY USE (STORAGE, MECH, RESTROOMS)
5,116 S.F. AT 300 S.F. GROSS = 19.25 OCCUPANTS

4. EDUCATIONAL - VOCATIONAL ROOMS
3,521 S.F. AT 50 S.F. NET = 10.54 OCCUPANTS

TOTAL OCCUPANTS = 119.14 OCCUPANTS

Travel Distance

PER 1016.1
EXIT TRAVEL DISTANCE 200'
MAXIMUM DISTANCE AT PROJECT 81'

Egress Widths

PER 1005.1
EGRESS WIDTH PER OCC. SERVED = 2 INCHES
EXIT WIDTH REQUIRED 119.14 x 2 = 23"
EXIT WIDTH PROVIDED 350"

Regulations, Codes and Standards

THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH ALL APPLICABLE CODES FOR ALL APPLICABLE TRADES AS REQUIRED WITHIN THE JURISDICTION THAT THE PROJECT IS TO BE BUILT, AT THE TIME OF ISSUANCE OF BUILDING PERMIT INCLUDING BUT NOT LIMITED TO:

1. INTERNATIONAL BUILDING CODE 2006

2. ANSI-A119A 2003 EDITION "SPECIFICATIONS FOR MAKING BUILDING FACILITIES ACCESSIBLE TO AND USEABLE BY THE PHYSICALLY HANDICAPPED

3. AMERICANS WITH DISABILITIES ACT (ADA) TITLE III, 1991

4. INTERNATIONAL MECHANICAL CODE, 2006 EDITION

5. INTERNATIONAL PLUMBING CODE, 2006 EDITION

6. NATIONAL ELECTRICAL CODE NFPA 70 2008 EDITION

7. INTERNATIONAL FIRE CODE, 2006 EDITION

8. COMPLY WITH ALL DHEC REQUIREMENTS

9. INTERNATIONAL ENERGY CONSERVATION CODE 2006

List of Abbreviations

AC	AIR CONDITIONING	DJ	DUMMY JOINT	GPH	GALLONS PER HOUR	MTL	MOUNTING	RPM	REVOLUTIONS PER MINUTE
ACT	ACOUSTICAL TILE	DN	DOWN	GPM	GALLONS PER MINUTE	MTL	METAL	SCH	SCHEDULE
ADJ	ADJUSTABLE	DR	DOOR	GYP BD	GYP BOARD	NA	NOT APPLICABLE	SC	SOLID CORE
AFB	ABOVE FINISH FLOOR	DTL	DETAIL	HB	HOBSE BIB	NIC	NOT IN CONTRACT	SCH	SCHEDULE
AHU	AIR HANDLING UNIT	DIW	DISHWASHER	HCB	HOLLOW CORE	NO	NUMBER	SQ/SG FT	SQUARE FOOT
ALT	ALTERNATE	DUG	DRAIN	HDR	HEADER	OA	OUTSIDE AIR	SHT	SHEET
ALUM	ALUMINUM	EA	EACH	HDWD	HARDWOOD	OC	ON CENTER	SHTG	SHEATHING
AMP/FA	AMPERE	EF	EXHAUST FAN	HDWR	HARDWARE	OD	OUTSIDE DIAMETER	SIM	SIMILAR
APPROX	APPROXIMATE	ELEC	ELECTRIC	HP	HEAT PUMP	OP	OPPOSITE	SPEC	SPECIFICATIONS
ARCH	ARCHITECT, ARCHITECTURAL	ELEV	ELEVATION	HT	HEIGHT	OSB	ORIENTED STRAND BOARD	ST	STEEL
BRG	BEARING	EQU	EQUAL	INT	INTERIOR	PART	PARTITION	SUSP	SUSPENDED
BTUN	BETWEEN	EQ SP	EQUAL SPACING	INV	INVERT	PLAS	PLASTIC	TD	TEMPERATURE
BOY/STM	BOTTOM	EQUIP	EQUIPMENT	IP	IRON PIPE/IN	PLF	POUNDS PER LINEAR FOOT	THD	THRESHOLD
BD	BOARD	EUC	ELECTRIC WATER COOLER	INSUL	INSULATION	PLYWD	PLYWOOD	THK	THICKNESS
BLDG	BUILDING	EXIST	EXISTING	JT	JOINT	PNT	PAINT	TOS	TOP OF SLAB
BRL	BUILDING RESTRICTION LINE	EXP	EXPOSED	KU	KILOWATT	PRE-FAB	PREVIOUSLY FABRICATED	TYP	TYPICAL
C/B	CIRCUIT BREAKER	EXP JTE/J	EXPANSION JOINT	LAM	LAMINATED	PSF	POUNDS PER SQUARE FOOT	V	VOLT
CD	CEILING DIFFUSER	EXT	EXTERIOR	LAV	LAVATORY	PSI	POUNDS PER SQUARE INCH	VCT	VINYL COMPOSITION TILE
CEM	CEMENT	FIN	FINISH	LLH	LONG LEG HORIZONTAL	PT	PRESSURE TREATED	VERT	VERTICAL
CER	CERAMIC	FLR	FLOOR	LLV	LONG LEG VERTICAL	QTR	QUARTER	VTR	VENT THROUGH ROOF
CFM	CUBIC FEET PER MINUTE	FOB	FACE OF BRICK	LTG	LIGHTING	QUAN	QUANTITY	VUC	VINYL WALL COVERING
CLR	CIRCUIT	FOB	FACE OF BRICK	M	MOTOR	R/RAID	RADIANT	VYL	VINYL
CJ	CONTROL JOINT	FOS	FACE OF STUD	MAX	MAXIMUM	RA	RETURN AIR	W	WITH
CLG	CEILING	RND	FOUNDATION	MC	MEDICINE CHEST	RCF	REINFORCED CONCRETE PIPE	W/O	WITHOUT
CMU	CONCRETE MASONRY UNIT	RFP	FIBERGLASS REINFORCED PANEL	MCH	MECHANICAL	REF	REFERENCE	UC	UNDER CLOSET
CO	CLEAN OUT	FT	FOOT/FEET	MIN	MINIMUM	REIN	REINFORCING	UP	UP
CONC	CONCRETE	FTG	FOOTING	MISC	MISCELLANEOUS	REQD	REQUIRED	UR	UNDER
CONT	CONTINUOUS	GA	GALVANIZED	MO	MAISONRY OPENING	RO	ROUGH OPENING	UHR	UNDER
CRAIL	CHAIR RAIL	GAL	GALVANIZED	MTD	MOUNTED				
CT	CERAMIC TILE	GALV	GALVANIZED						
CU	CONDENSING UNIT	GFC	GROUND FAULT INTERRUPT CIRCUIT						
DBL	DOUBLE	GRND	GROUND						
DIA	DIAMETER	GOVT	GOVERNMENT						

Index of Drawings

- T-1

TITLE, BUILDING CODE ANALYSIS, LIFE SAFETY PLAN, AND GENERAL INFORMATION SHEET
- A-1

EXISTING / DEMOLITION FLOOR PLAN AND NOTES
- A-2

RENOVATED FLOOR PLAN, SCHEDULES AND NOTES PHASE I
- A-3

RENOVATED FLOOR PLAN, SCHEDULES AND NOTES PHASE II
- P-1

PLUMBING DEMOLITION AND PHASE II PLAN
- M-1

MECHANICAL EXISTING / DEMOLITION PLAN
- M-2

MECHANICAL PHASE I & II PLAN
- M-3

MECHANICAL LEGEND, NOTES AND DETAILS
- E-1

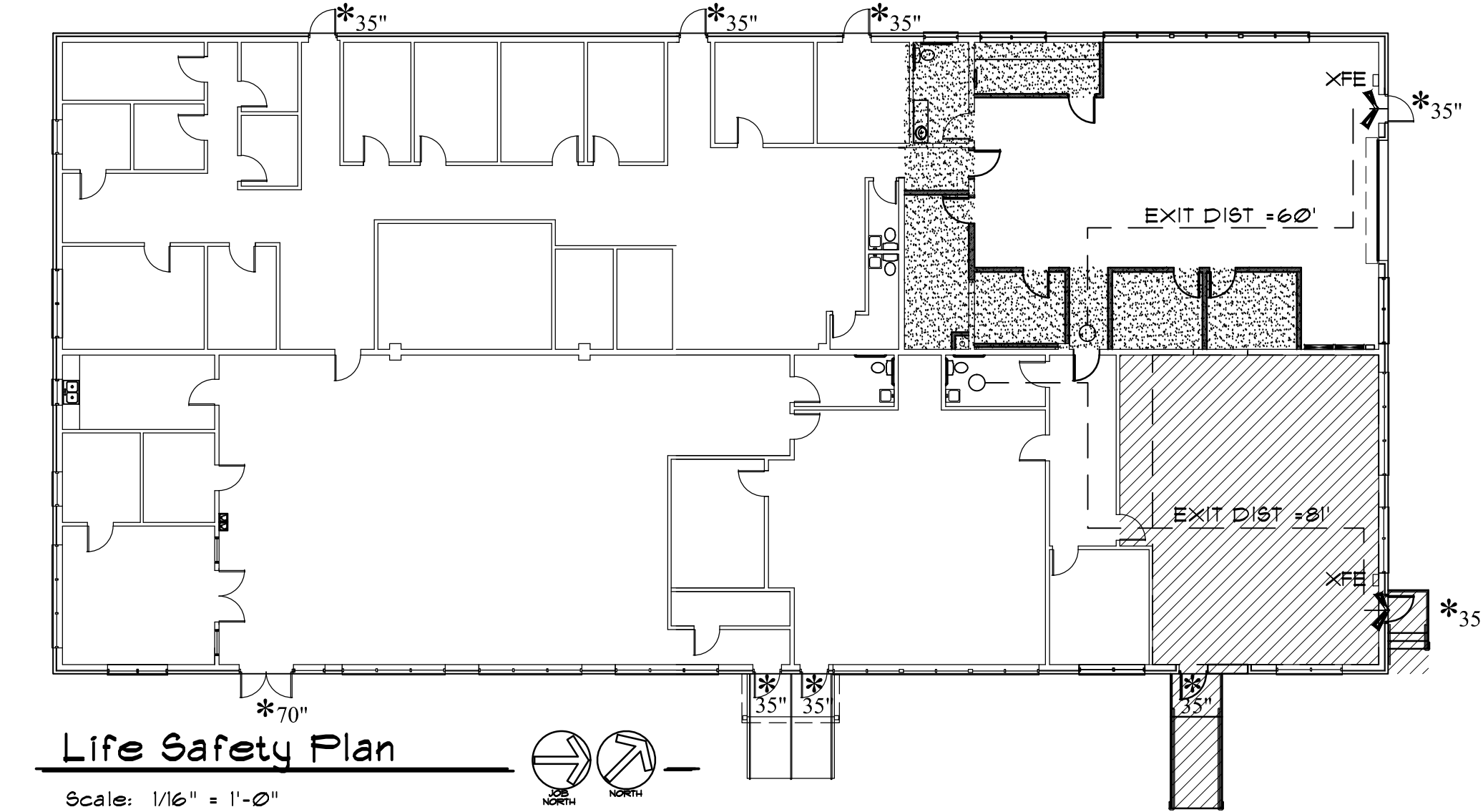
ELECTRICAL EXISTING / DEMOLITION PLAN
- E-2

ELECTRICAL PHASE I & II PLAN
- E-3

ELECTRICAL LEGEND, NOTES AND DETAILS

Project Design Team

ARCHITECT	MEP ENGINEER
C. M. DRAKEFORD JR., AIA DRAKEFORD ARCHITECTS 120 N. MAIN STREET SUMTER, SOUTH CAROLINA 29150 PHONE (803) 774-2000 FAX (803) 774-2003	ROBERT L. DALLERY, PE RAST DALLERY ENGINEERS, PC 1229 SHINE AVENUE MYRTLE BEACH, SOUTH CAROLINA 29577 PHONE (843) 232-0408 FAX (843) 232-0508



Occupancy Note:

CONSTRUCTION RENOVATIONS SHALL BE PERFORMED WHILE THE OWNER MAINTAINS OCCUPANCY OF BUILDING. THE CONTRACTOR IS REQUIRED TO IMPLEMENT APPROPRIATE SAFEGUARDS TO PROTECT OCCUPANTS AND THE EXISTING ADJACENT PROPERTIES DURING ALL PHASES OF THIS PROJECT AS MAY BE REQUIRED. CONSTRUCTION SHALL NOT OCCUR DURING EXAM WEEK (DECEMBER 8 - 15, 2012). SEE CONSTRUCTION PHASING PLAN NOTES.

Base Bid -Construction/Renovations

THE BASE BID SHALL CONSIST OF DEMOLITION WITHIN THE EXISTING CLASSROOM AS SHOWN ON SHEET A-1 AND RENOVATIONS OF THE CLASSROOM FACILITY PLUS EXTERIOR RENOVATIONS AND CONSTRUCTION AS SHOWN ON SHEET A-2.

Alternate No. 1 -Construction/Renovations

ALTERNATE NO. 1 SHALL CONSIST OF DEMOLITION WITHIN THE EXISTING WORK AREA AS SHOWN ON SHEET A-1 AND CONSTRUCTION OF OFFICES AND MODIFICATION OF EXISTING TOILET FACILITY AS SHOWN ON SHEET A-3.

Legend and Symbols

- INDICATES DIRECTION OF VIEW

NUMBER INDICATES BUILDING SECTION

SHEET WHERE DRAWN
- INDICATES DIRECTION OF VIEW

NUMBER INDICATES WALL SECTION

SHEET WHERE DRAWN
- INDICATES DIRECTION OF VIEW

NUMBER INDICATES ELEVATION

SHEET WHERE DRAWN
- NUMBER INDICATES SECTION, DETAIL, OR ELEVATION

SHEET WHERE DRAWN
- SPACE NUMBER

DOOR TYPE

DOOR NUMBER

WINDOW TYPE

WINDOW NUMBER

Job Sign Information

- PAINT COLOR SCHEDULE:

POST COLOR: BLACK

OWNER TEXT COLOR: BLACK

BACKGROUND COLOR: WHITE

BORDER COLOR: GARNET

LARGE TEXT: GARNET WITH BLACK OUTLINE

SMALL TEXT: BLACK
- ARCH. TEXT COLOR: BLACK

BACKGROUND COLOR: WHITE

LOGO: BLACK

LARGE TEXT: BLACK

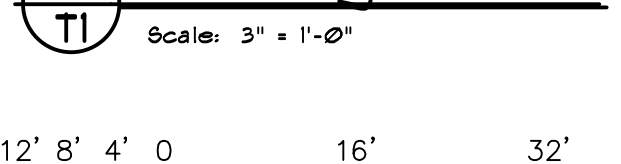
SMALL TEXT: BLACK
- GENERAL CONTRACTOR TEXT COLOR: BLACK

LOGO: AS PER GC INSTRUCTIONS

LARGE TEXT: AS PER GC INSTRUCTIONS

SMALL TEXT: AS PER GC INSTRUCTIONS

Job Sign Detail



Job Sign Elevation - Typ.

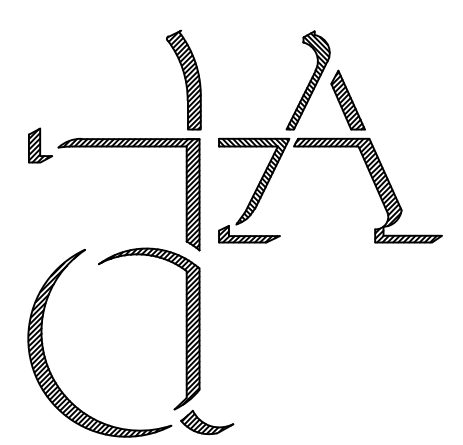
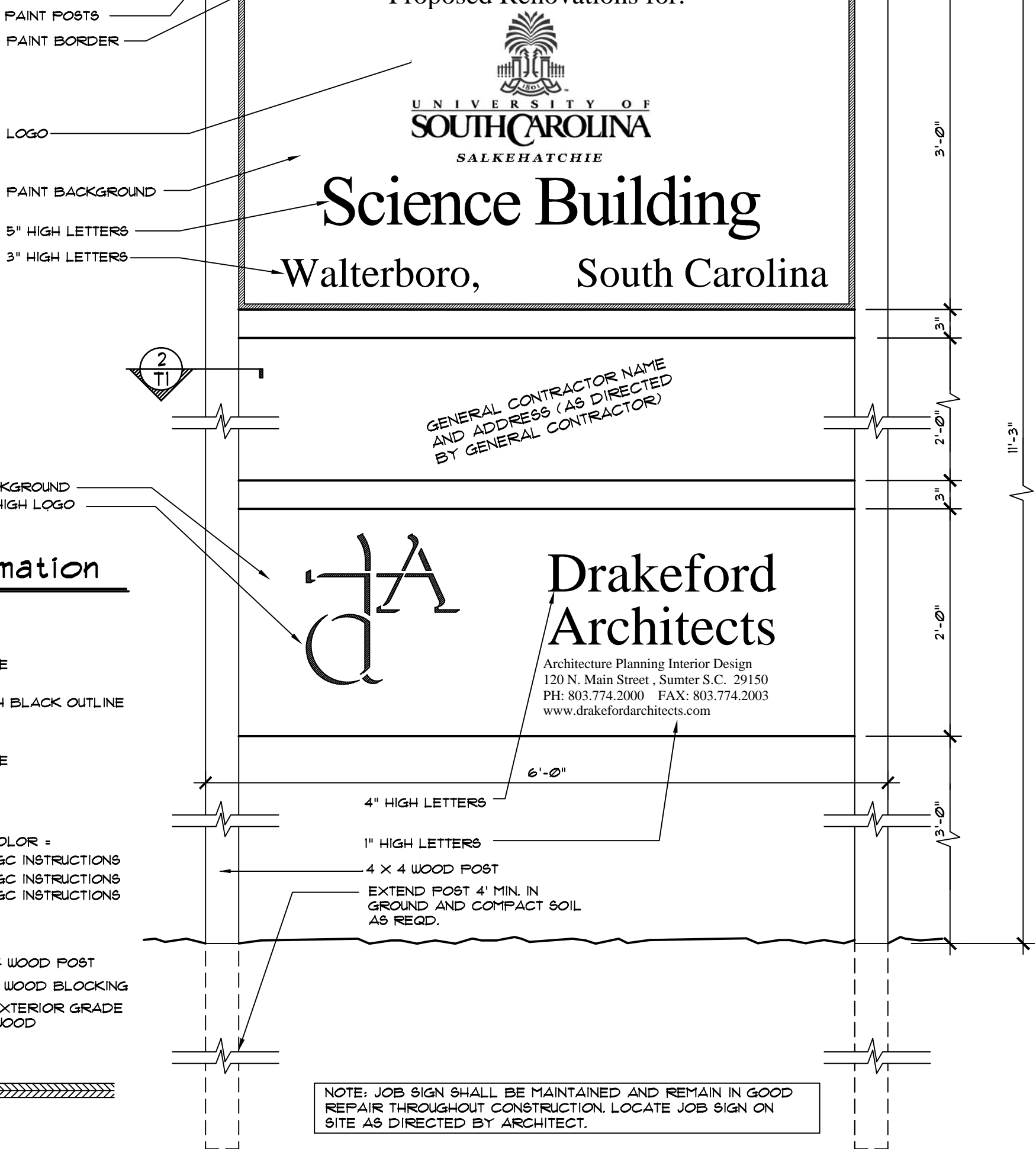
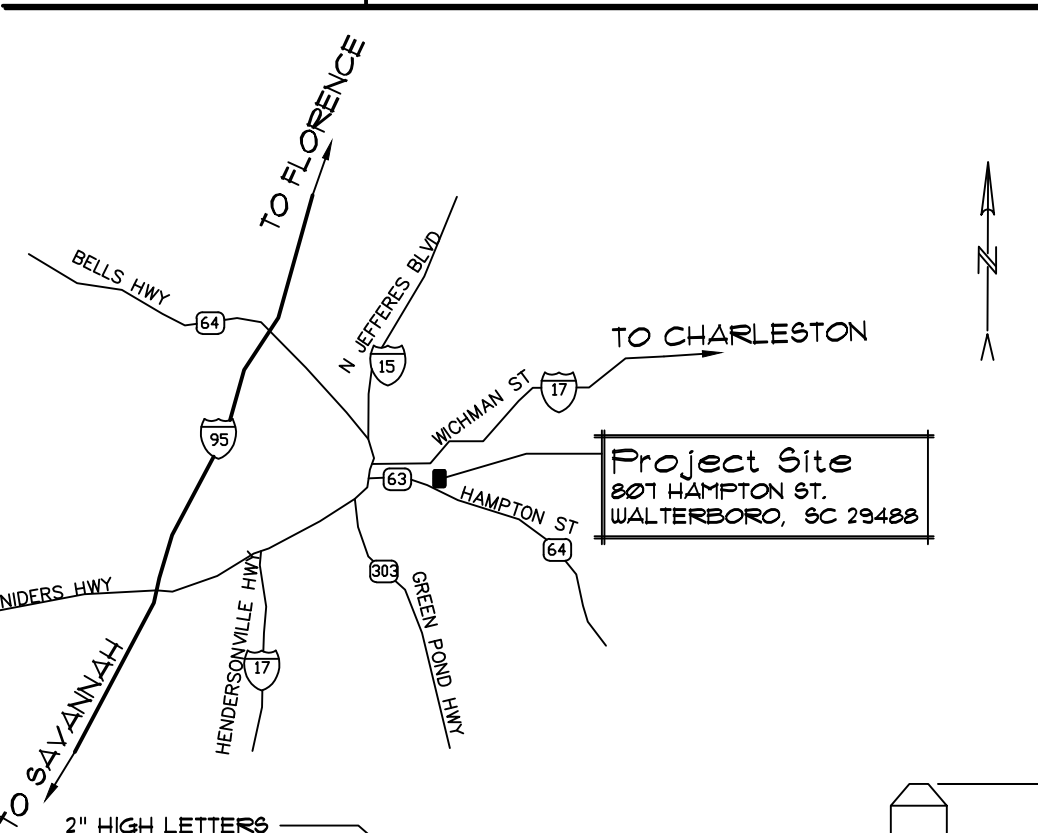


Proposed Building Renovations for:
University of South Carolina
East Campus
Science Building

Walterboro,

South Carolina

Location Map



Drakeford Architects

120 North Main Street
Sumter, SC 29150 803 774-2000

Date June 06, 2012

Revisions



Proposed
Renovations for:



East Campus at Walterboro

Science Bldg.

807 Hampton Street
Walterboro, S.C.

Project No.

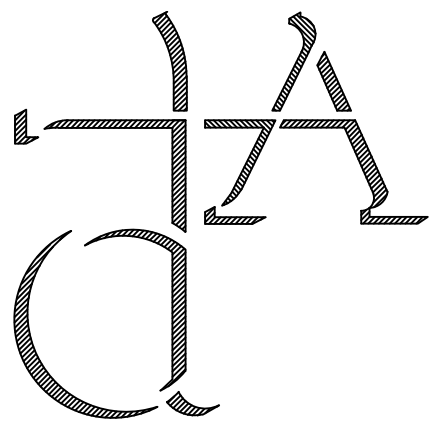
Title, Building Code
Analysis, Life Safety
Plan and General
Information Sheet

Scale: As Shown



File No. USCWS_TITLE2.dwg

Sheet T-1 of 1



Drakeford Architects

120 North Main Street
Sumter, SC 29150 803 774-2000

Date June 06, 2012

Revisions



Proposed
Renovations for:



East Campus at Walterboro

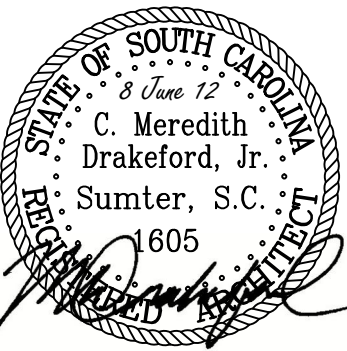
Science Bldg.

807 Hampton Street
Walterboro, S.C.

Project No.

Existing / Demolition
Floor Plan and Notes

Scale: 1/8" = 1'-0"



File No. USCWS-FP01.dwg

Sheet A-1 of 3

Legend

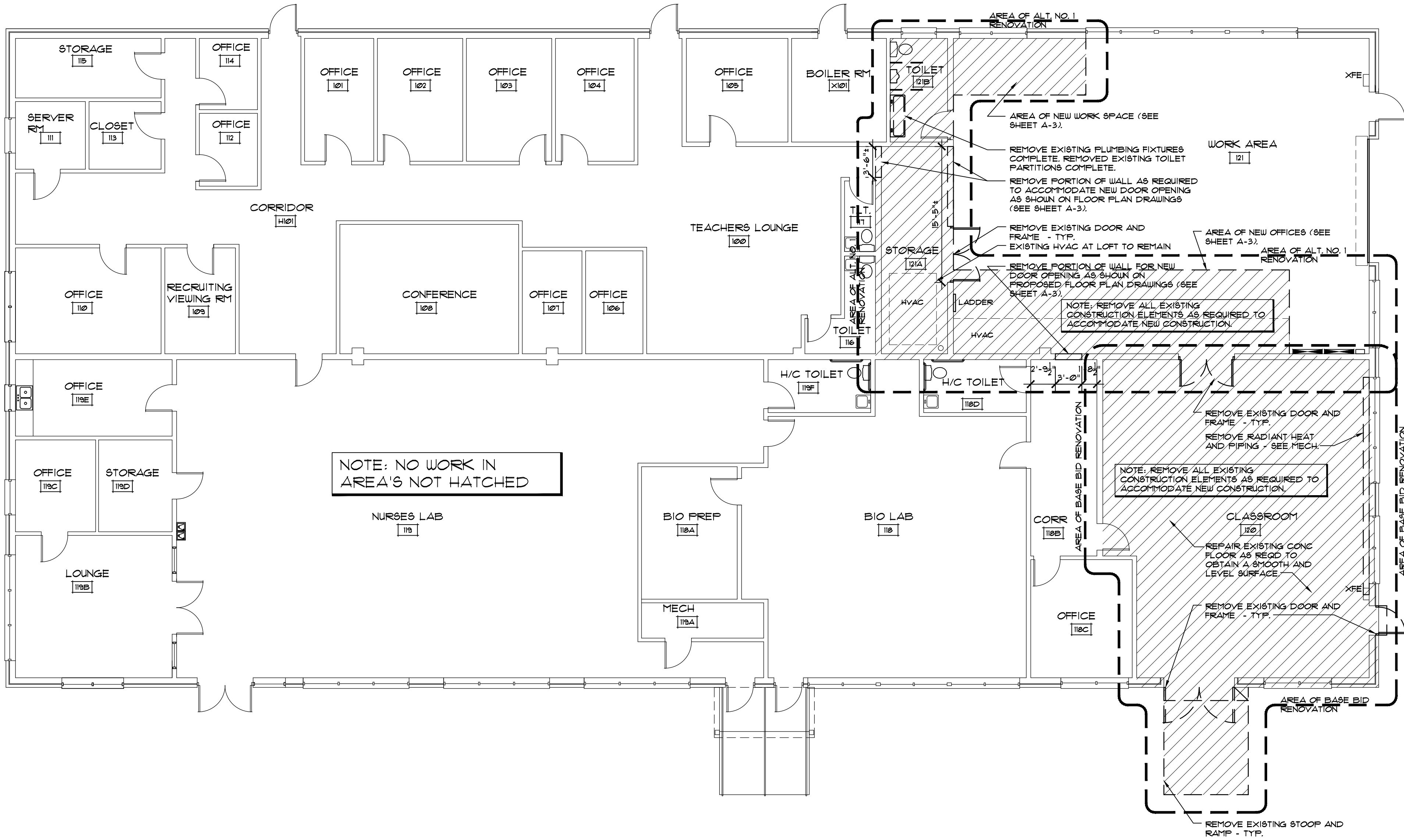
- BASE BID - BLDG AREA TO BE RENOVATED
- ALTERNATE NO. 1 - BLDG AREA TO BE RENOVATED
- EXISTING AREA OF DEMOLITION

General Demolition Notes

- GC SHALL REMOVE ALL EXISTING CONSTRUCTION ELEMENTS AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION.
- FIELD VERIFY ALL DEMOLITION INSTRUCTIONS AND SCHEDULES AND COORDINATE WITH ARCHITECT PRIOR TO BEGINNING WORK.
- OWNER SHALL REMOVE ALL PORTABLE EQUIPMENT AND FURNISHINGS FROM AREAS OF RENOVATION PRIOR TO BEGINNING CONSTRUCTION.
- SEE ALSO ENGINEERS DRAWINGS FOR REMOVAL AND / OR RELOCATION OF ELECTRICAL FIXTURES AND OUTLETS, MECHANICAL EQUIPMENT, DIFFUSERS AND DUCTWORK, PLUMBING FIXTURES AND LINES, ETC.
- ANY REMAINING EXISTING SURFACES, CABINETS, EQUIPMENT, ETC. WHICH ARE DAMAGED BY DEMOLITION SHALL BE REPLACED AND/OR REPAINTED BY CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- REPAIR EXISTING WALLS TO MATCH EXISTING ADJACENT CONST. FINISHES (SEE DEMO/RENOV NOTES AND FINISH SCHEDULE).
- SEE SPACE AND FINISH SCHEDULE ON SHEETS A-2 AND A-3.

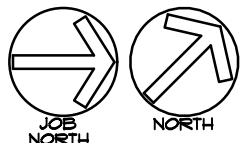
General Notes

- OCCUPANCY NOTE:**
CONSTRUCTION RENOVATIONS SHALL BE PERFORMED WHILE THE OWNER MAINTAINS OCCUPANCY OF BUILDING. THE CONTRACTOR IS REQUIRED TO IMPLEMENT APPROPRIATE SAFEGUARDS TO PROTECT OCCUPANTS AND THE EXISTING ADJACENT PROPERTIES. SEE CONSTRUCTION LEGEND AND SPECIFICATIONS.
- RENOVATION NOTE:**
PREPARATION OF THESE CONSTRUCTION DRAWINGS IS BASED ON FIELD INVESTIGATIONS OF AS-BUILT CONDITIONS AS CONDUCTED BY THE ARCHITECT AND ENGINEERS. AS A RESULT, REASONABLE ASSUMPTIONS WERE MADE WITH RESPECT TO CONCEALED OR OTHERWISE INACCESSIBLE PORTIONS OF THE EXISTING CONSTRUCTION AND ITS SYSTEMS. AS SUCH, VARIED GRAPHIC DEPICTION OF THE WORK TO BE PERFORMED ARE CONCEPTUAL IN NATURE AND WILL BE SUBJECT TO ADJUSTMENTS IN THE FIELD. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING DIMENSIONS, SLOPES, CONNECTION TO EXISTING SERVICES AND OTHER UNITS OF MEASURE AS IT PERTAINS TO THE EXECUTION OF NEW WORK, AND TO IDENTIFY DISCREPANCIES, PRIOR TO BIDDING, AND REPORT INFORMATION TO THE ARCHITECT AND OWNER FOR REVIEW AND ADJUSTMENTS AS MAY BE NEEDED.
- CONSTRUCTION LEGEND:**
THE LEGEND DIAGRAMS AND NOTES AS SHOWN ON T-1 ARE RECOMMENDATIONS INTENDED TO PROVIDE A CONCEPTUAL PLAN FOR ALLOWING CONSTRUCTION TO PROCEED IN A SAFE MANNER FOR OCCUPANTS. THE CONTRACTOR SHALL CONSIDER THE SAFETY OF THE STUDENTS AND SCHOOL FACULTY AS HIS MOST IMPORTANT RESPONSIBILITY FOR THIS PROJECT.



Existing / Demolition Floor Plan

Scale: 1/8" = 1'-0"



1/8" = 1'-0" 8' 4' 0 8' 16'

Door Schedule - Exterior

MARK	A	
SIZE	3'-0" x 1'-0" x 1 3/4"	
TYPE	STL. DR. INSUL. SING. SWING	
MFG.	STEELCRAFT, CECO, OR APPROVED EQUAL	
FRAME	HOLLOW METAL	
MFG.	STEELCRAFT, CECO, OR APPROVED EQUAL	
RATING	NONE	
LITE	NONE	
NOTES	NONE	

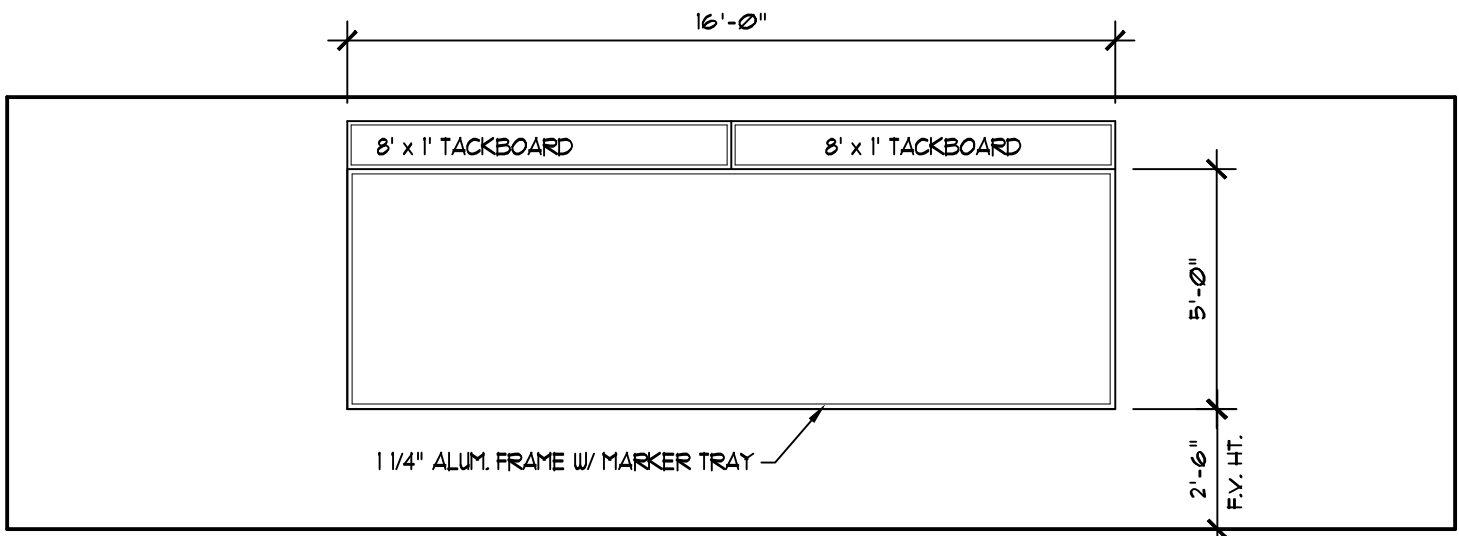
Door Schedule - Interior

MARK	B	
SIZE	3'-0" x 1'-0" x 1 3/4"	
TYPE	HOLLOW METAL DR. FLUSH PANEL, SING. SWING	
MFG.	STEELCRAFT, CECO, OR APPROVED EQUAL	
FRAME	HOLLOW METAL	
MFG.	STEELCRAFT, CECO, OR APPROVED EQUAL	
RATING	NONE	
LITE	6" x 26" TEMPERED	
NOTES	NONE	

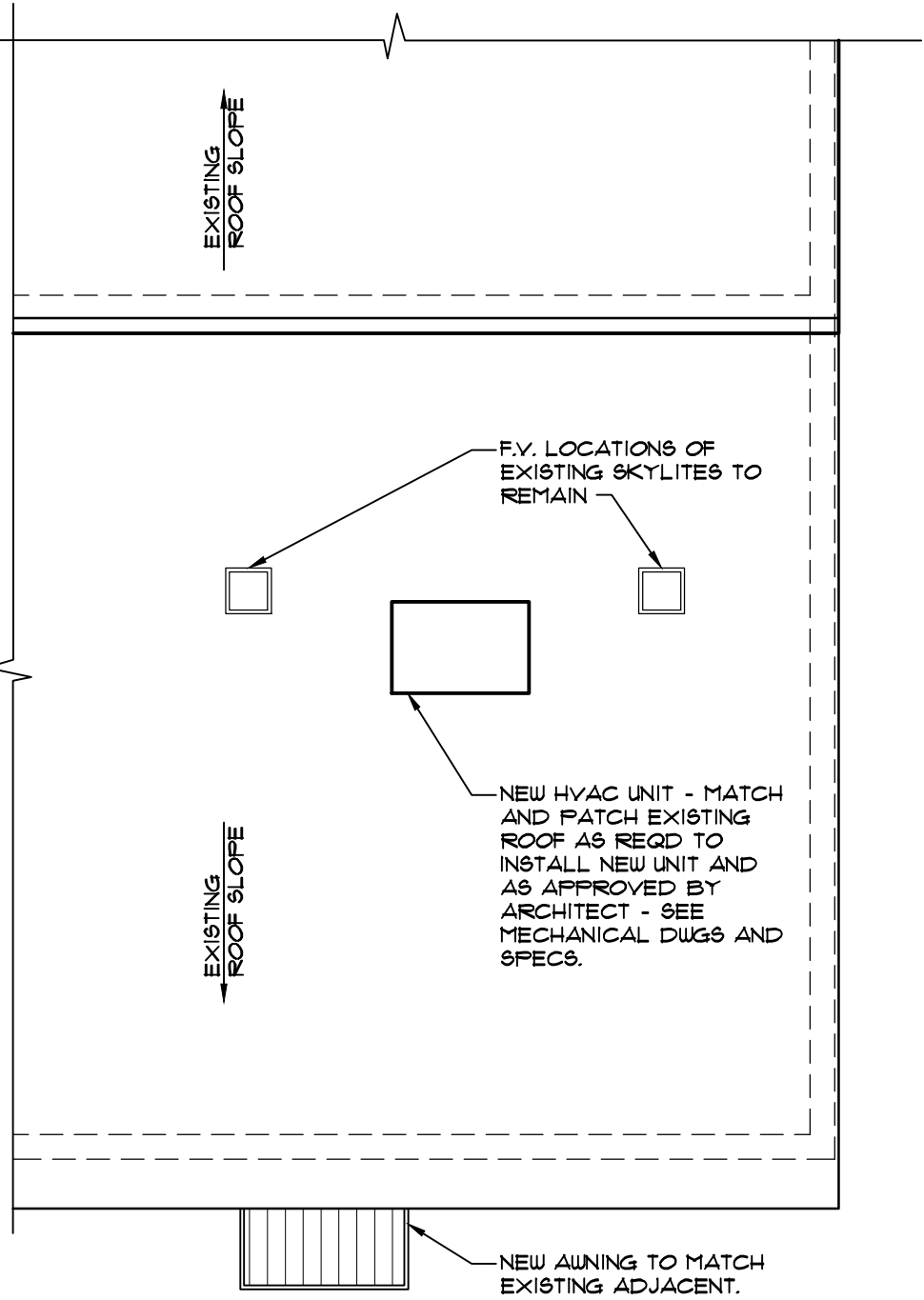
MARK	C	
SIZE	3'-0" x 1'-0" x 1 3/4"	
TYPE	HOLLOW METAL DR. FLUSH PANEL, SING. SWING	
MFG.	STEELCRAFT, CECO, OR APPROVED EQUAL	
FRAME	HOLLOW METAL	
MFG.	STEELCRAFT, CECO, OR APPROVED EQUAL	
RATING	NONE	
LITE	NONE	
NOTES	NONE	

Door Schedule Notes

- REFER TO FLOOR PLAN FOR DOOR WIDTHS. ALL DOORS TO BE 3'-0" WIDE UNLESS OTHERWISE NOTED (FIELD VERIFY). REFER TO 'DOOR TYPES' FOR HEIGHT OF DOOR.
- ALL DOORS ARE 1 3/4" THICK, UNO. REFER TO 'DOOR TYPES' FOR ADD. INFO.
- ALL GLAZING AT DOORS TO BE TEMPERED (VERIFY SAFETY REQUIREMENTS AT SIDELIGHTS). ALL GLAZING AT EXTERIOR DOORS TO BE INSULATED.
- EXTERIOR DOORS TO BE INSULATED METAL (STEEL OR ALUMINUM), UNLESS NOTED OTHERWISE. FINISH TO BE SELECTED BY ARCHITECT (SEE SPECS.)
- DOOR HARDWARE INCLUDING KEYING AND CLOSERS TO BE REVIEWED AND APPROVED BY ARCH.
- PROVIDE ADA COMPATIBLE ALUMINUM THRESHOLDS AT EXTERIOR DOORS.
- GC TO VERIFY ROUGH FRAMING OPENINGS WITH DOOR FRAME SUPPLIER.
- VERIFY ALL HOLLOW METAL FRAME THROAT WIDTH WITH PLAN LOCATIONS.



3 Wall Board Elevation
A2 Scale: 1/4" = 1'-0"



2 Partial Roof Plan - CONSTRUCTION AREA
A2 Scale: 1/8" = 1'-0"

Interior Space and Finish Schedule

SF. NO.	INTERIOR SPACE	BASE	FLOOR	WALL - MTL / FIN	CEILING	CLG. HT.	REMARKS
120	CLASSROOM	UD-FTD	VCT	CMU / GYP BD - FTD	EXPOSED - FTD	EXISTING	NO WORK IN EXISTING SPACES (120-121, 121)
121	EXISTING WORK AREA	DND.	DND.	EXIST CMU/CMU - FTD	DND.	DND.	MATCH AND PATCH @ DOOR INFILL

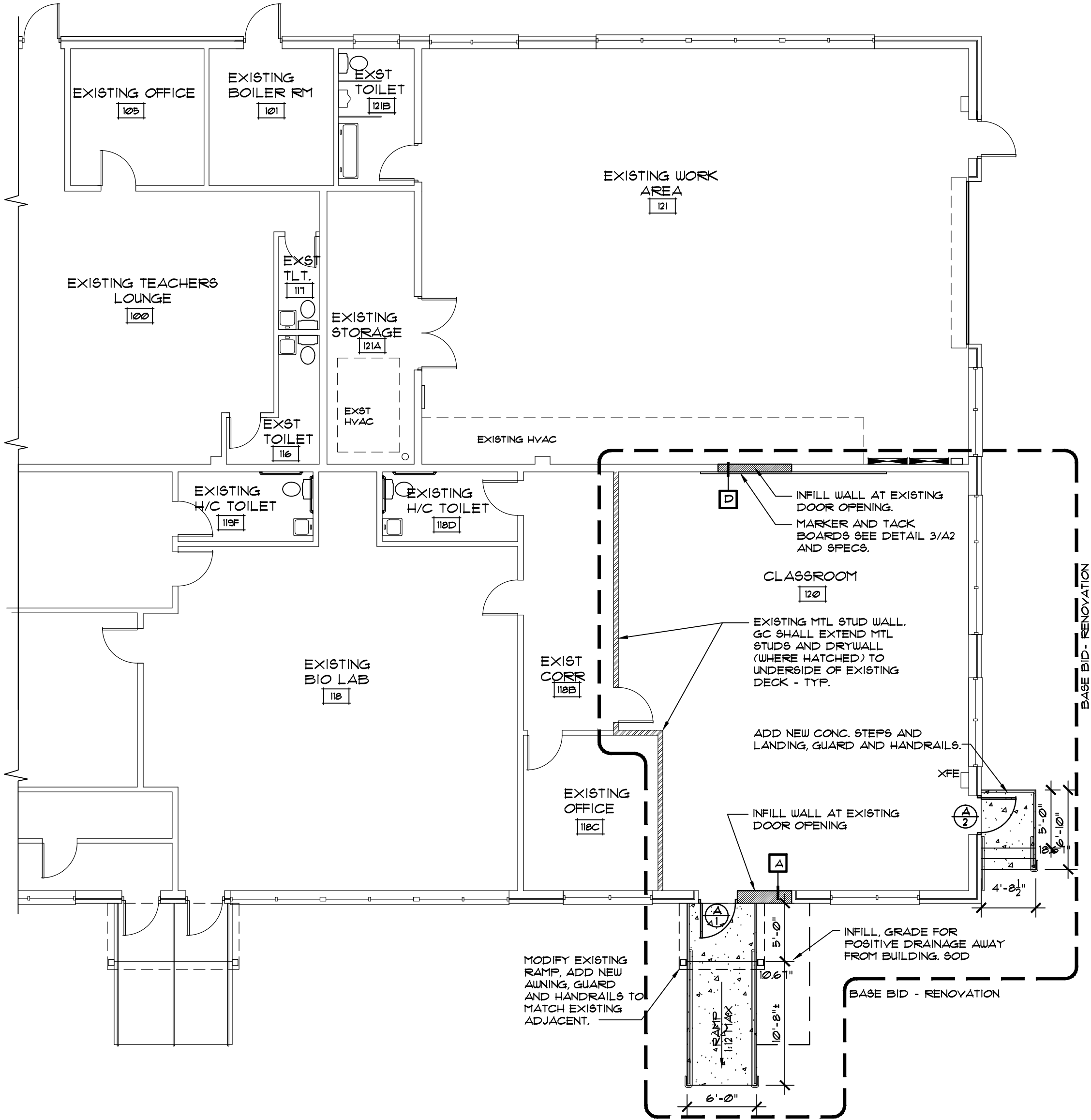
ABBREVIATIONS: CS=CONCRETE SEALED FIN=FINISH GYP BD=GYPSPUM BOARD LVP=LUXURY VINYL PLANK MTL=MATERIAL
FLYUD=PLYWOOD FTD - PAINTED 8MTH=8\"/>

Wall Type Schedule:

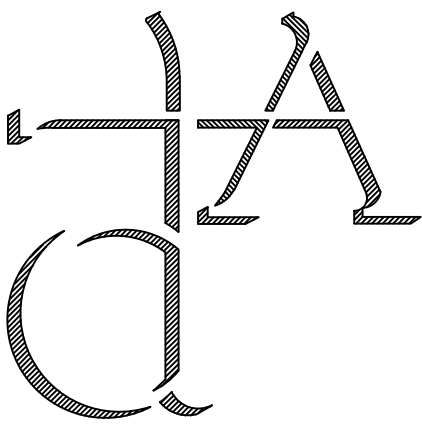
- A CMU "TOOTHED-IN" INFILL MATCH AND ALIGN WITH EXPOSED EXISTING ADJACENT CONSTRUCTION. 5/8" DENS-GLASS EXTERIOR SHEATHING 3/4" INSULATION BRICK VENEER TO MATCH EXISTING ADJACENT BRICK
- B 4" (20 GA) METAL STUD @ 16" O.C. 1 LAYER OF 5/8" GYPSPUM BOARD EACH SIDE W/ 3 1/2" (R-11) SOUND BATT INSULATION
- C 4" (20 GA) METAL STUD WALL - 20 GAUGE 1 LAYER OF 5/8" GYPSPUM BOARD WORK AREA SIDE 1 LAYER OF 3/4" SHEATHING INTERIOR ROOM SIDE NOTE: EXTEND EVERY OTHER STUD TO UNDERSIDE OF EXISTING ROOF DECK
- D CMU "TOOTHED-IN" INFILL MATCH AND ALIGN WITH EXPOSED EXISTING ADJACENT CONSTRUCTION.

Floor Plan Notes:

- SEE THIS SHEET FOR DOOR SCHEDULE.
- TYPICAL INTERIOR WALLS SHALL BE 4" (20 GA) METAL STUDS - SEE WALL TYPE SCHEDULE. WALLS ADJACENT TO EXST CONST. SHALL BE PATCHED TO MATCH EXISTING ADJ CONST.
- TYPICAL EXTERIOR WALLS SHALL BE 4" METAL STUDS @ 16" O.C. W/ 3 1/2" (R-15) SOUND BATT INSULATION - SEE WALL TYPE SCHEDULE.
- ALL NEW INTERIOR WALLS IN SHALL HAVE 3 1/2" (R-11) SOUND BATT INSULATION.
- TYPICAL DIMENSION LINES ARE SHOWN FROM CENTERLINE OF INTERIOR PARTITIONS AND EXTERIOR FACE OF BRICK - SEE TYPICAL WALL SECTION.



1 Renovated Floor Plan - Base Bid
A2 Scale: 1/8" = 1'-0"



Drakeford Architects

120 North Main Street
Sumter, SC 29150 803 774-2000

Date June 06, 2012

Revisions



Proposed
Renovations for:



East Campus at Walterboro

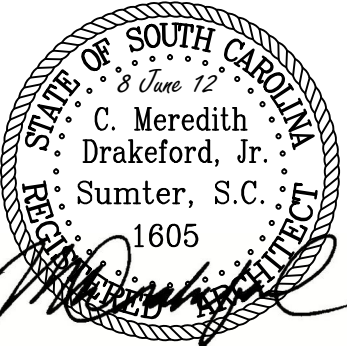
Science Bldg.

807 Hampton Street
Walterboro, S.C.

Project No.

Renovated Floor Plan
Schedules and Notes
BASE BID

Scale: 1/8" = 1'-0"



File No. USCWS-FP01.dwg

Sheet A-2 of 3

Door Schedule - Exterior

MARK	A	
SIZE	3'-0" x 7'-0" x 1 3/4"	1'-0"
TYPE	STL. DR. INSL. SING. SWING	
FRG.	STEELCRAFT, CECO, OR APPROVED EQUAL	
FRAME	HOLLOW METAL	
FRG.	STEELCRAFT, CECO, OR APPROVED EQUAL	
RATING	NONE	
LITE	NONE	
NOTES	NONE	

Door Schedule - Interior

MARK	B	
SIZE	3'-0" x 7'-0" x 1 3/4"	1'-0"
TYPE	HOLLOW METAL DR. FLUSH PANEL, SING. SWING	
FRG.	STEELCRAFT, CECO, OR APPROVED EQUAL	
FRAME	HOLLOW METAL	
FRG.	STEELCRAFT, CECO, OR APPROVED EQUAL	
RATING	NONE	
LITE	6" x 26" TEMPERED	
NOTES	NONE	

MARK	C	
SIZE	3'-0" x 7'-0" x 1 3/4"	1'-0"
TYPE	HOLLOW METAL DR. FLUSH PANEL, SING. SWING	
FRG.	STEELCRAFT, CECO, OR APPROVED EQUAL	
FRAME	HOLLOW METAL	
FRG.	STEELCRAFT, CECO, OR APPROVED EQUAL	
RATING	NONE	
LITE	NONE	
NOTES	NONE	

Door Schedule Notes

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2. ALL DOORS ARE 1 3/4" THICK, UNO. REFER TO "DOOR TYPES" FOR ADD. INFO.
3. ALL GLAZING AT DOORS TO BE TEMPERED (VERIFY SAFETY REQUIREMENTS AT SIDELIGHTS). ALL GLAZING AT EXTERIOR DOORS TO BE INSULATED.
5. EXTERIOR DOORS TO BE INSULATED METAL (STEEL OR ALUMINUM), UNLESS NOTED OTHERWISE. FINISH TO BE SELECTED BY ARCHITECT (SEE SPECS.)
6. DOOR HARDWARE INCLUDING KEYING AND CLOSERS TO BE REVIEWED AND APPROVED BY ARCH.
7. PROVIDE ADA COMPATIBLE ALUMINUM THRESHOLDS AT EXTERIOR DOORS.
8. GC TO VERIFY ROUGH FRAMING OPENINGS WITH DOOR FRAME SUPPLIER.
9. VERIFY ALL HOLLOW METAL FRAME THROAT WIDTH WITH PLAN LOCATIONS.

Interior Space and Finish Schedule

SP. NO.	INTERIOR SPACE	BASE	FLOOR	WALL - MTL / FIN	CEILING	CLG. HT.	REMARKS
001	OFFICE	VTL	CPT	EXST CMU / GYP BD - PTD	ACT	9'-0"	
002	OFFICE	VTL	CPT	EXST CMU / GYP BD - PTD	ACT	9'-0"	
003	CORRIDOR	VTL	CS	EXST CMU / GYP BD - PTD	EXPOSED	EXISTING	
004	OFFICE	VTL	CPT	EXST CMU / GYP BD - PTD	ACT	9'-0"	
005	OFFICE	VTL	CPT	EXST CMU / GYP BD - PTD	GWB	existing	
006	CORRIDOR	VTL	CS	EXST CMU / GYP BD - PTD	EXPOSED	EXISTING	
007	WORK AREA	VTL	CS	EXST CMU / GYP BD - PTD	EXPOSED	EXISTING	
100-119F				NO WORK			
121				SEE BASE BID			
121B	TOILET	CT	CT	EXST CMU - PTD	EXPOSED	EXISTING	

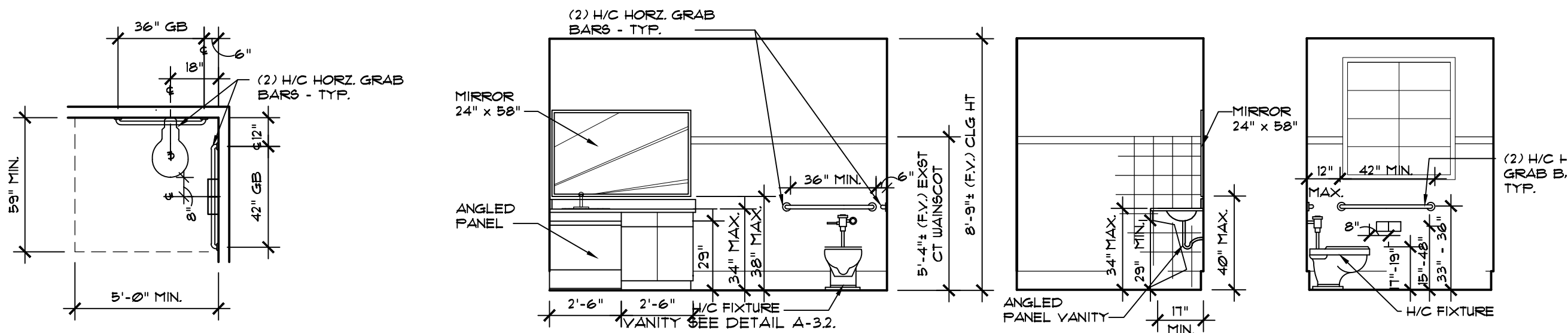
ABBREVIATIONS: ACT=ACCOUSTICAL CEILING TILES CPT=CARPET CS=CONCRETE SEALED CT=CERAMIC TILE FIN=FINISH
GYP BD=GYPSTUM BOARD LVP=LUXURY VNTL PLANK MTL=MATERIAL FLYUD=FLYWOOD
PTD = PAINTED SMTH=SMOOTH STD=STAINED VTL=VNTL WD=WOOD

Wall Type Schedule:

- A CMU "TOOTHED-IN" INFILL MATCH AND ALIGN WITH EXPOSED EXISTING ADJACENT CONSTRUCTION. 5/8" DENS-GLASS EXTERIOR SHEATHING 3/4" INSULATION BRICK VENEER TO MATCH EXISTING ADJACENT BRICK
- B 4" (20 GA) METAL STUD @ 16" O.C. 1 LAYER OF 5/8" GYPSTUM BOARD EACH SIDE W/ 3 1/2" (R-11) SOUND BATT INSULATION
- C 4" (20 GA) METAL STUD WALL - 20 GAUGE 1 LAYER OF 5/8" GYPSTUM BOARD WORK AREA SIDE 1 LAYER OF 3/4" SHEATHING INTERIOR ROOM SIDE NOTE: EXTEND EVERY OTHER STUD TO UNDERSIDE OF EXISTING ROOF DECK
- D CMU "TOOTHED-IN" INFILL MATCH AND ALIGN WITH EXPOSED EXISTING ADJACENT CONSTRUCTION.
- E 4" (20 GA) METAL STUD @ 16" O.C. 1 LAYER OF 5/8" GYPSTUM BOARD EXPOSED SIDE W/ 3 1/2" (R-11) SOUND BATT INSULATION

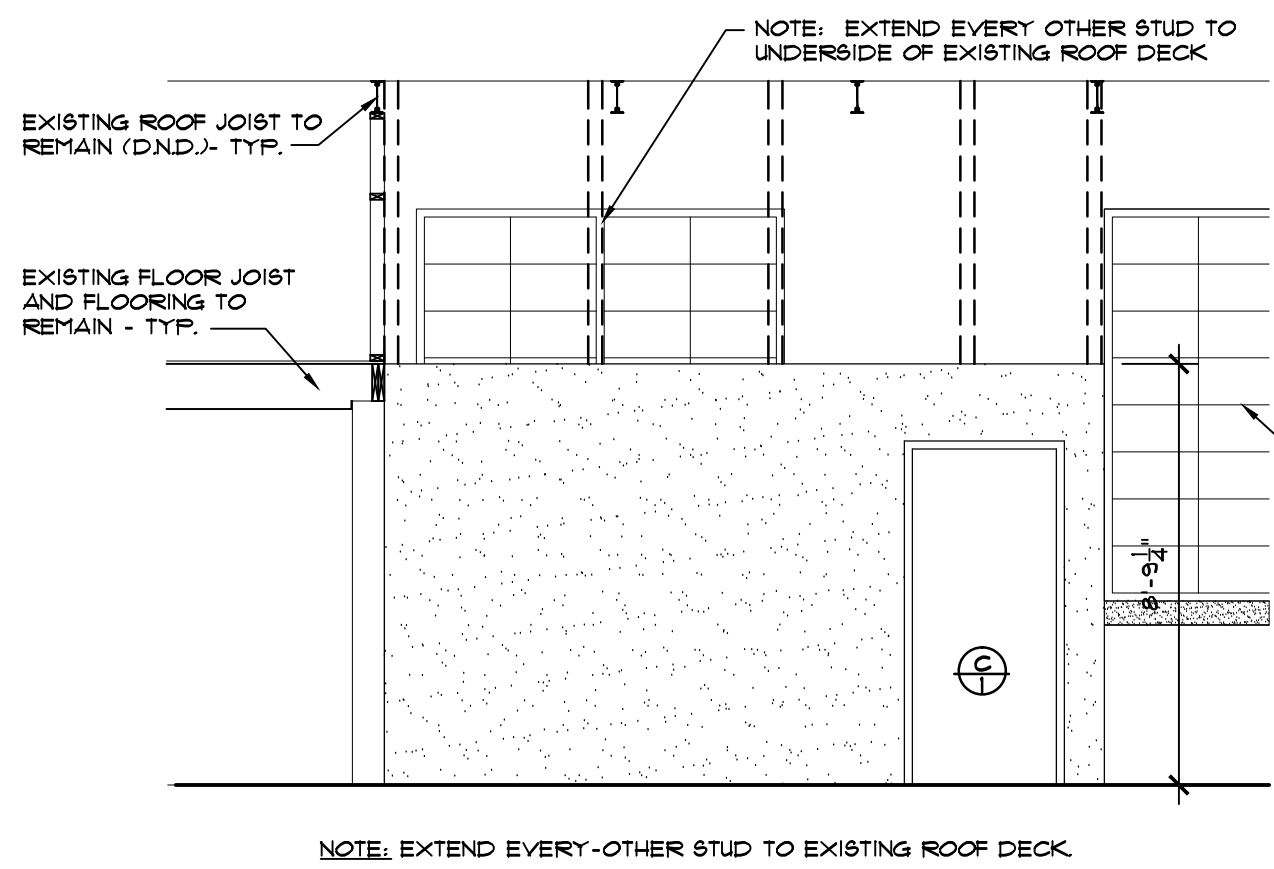
Floor Plan Notes:

- 01. SEE THIS SHEET FOR DOOR SCHEDULE.
- 02. TYPICAL INTERIOR WALLS SHALL BE 4" (20 GA) METAL STUDS - SEE WALL TYPE SCHEDULE. WALLS ADJACENT TO EXST CONST. SHALL BE PATCHED TO MATCH EXISTING ADJ CONST.
- 03. TYPICAL EXTERIOR WALLS SHALL BE 4" METAL STUDS @ 16" O.C. W/ 3 1/2" (R-19) SOUND BATT INSULATION - SEE WALL TYPE SCHEDULE.
- 04. ALL NEW INTERIOR WALLS IN SHALL HAVE 3 1/2" (R-11) SOUND BATT INSULATION.
- 05. TYPICAL DIMENSION LINES ARE SHOWN FROM CENTERLINE OF INTERIOR PARTITIONS AND EXTERIOR FACE OF BRICK - SEE TYPICAL WALL SECTION.

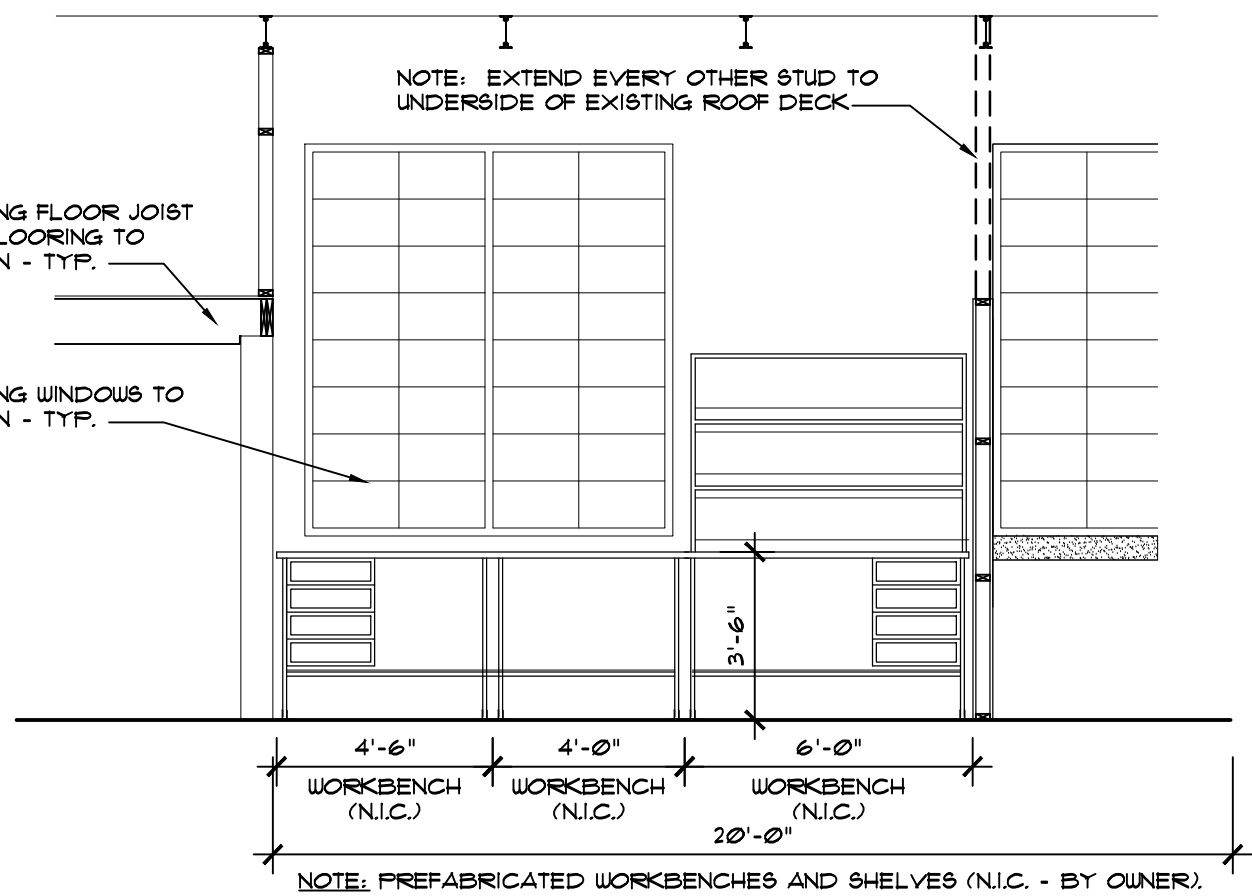


5 Typical ADA Toilet
Scale: 1/4" = 1'-0"

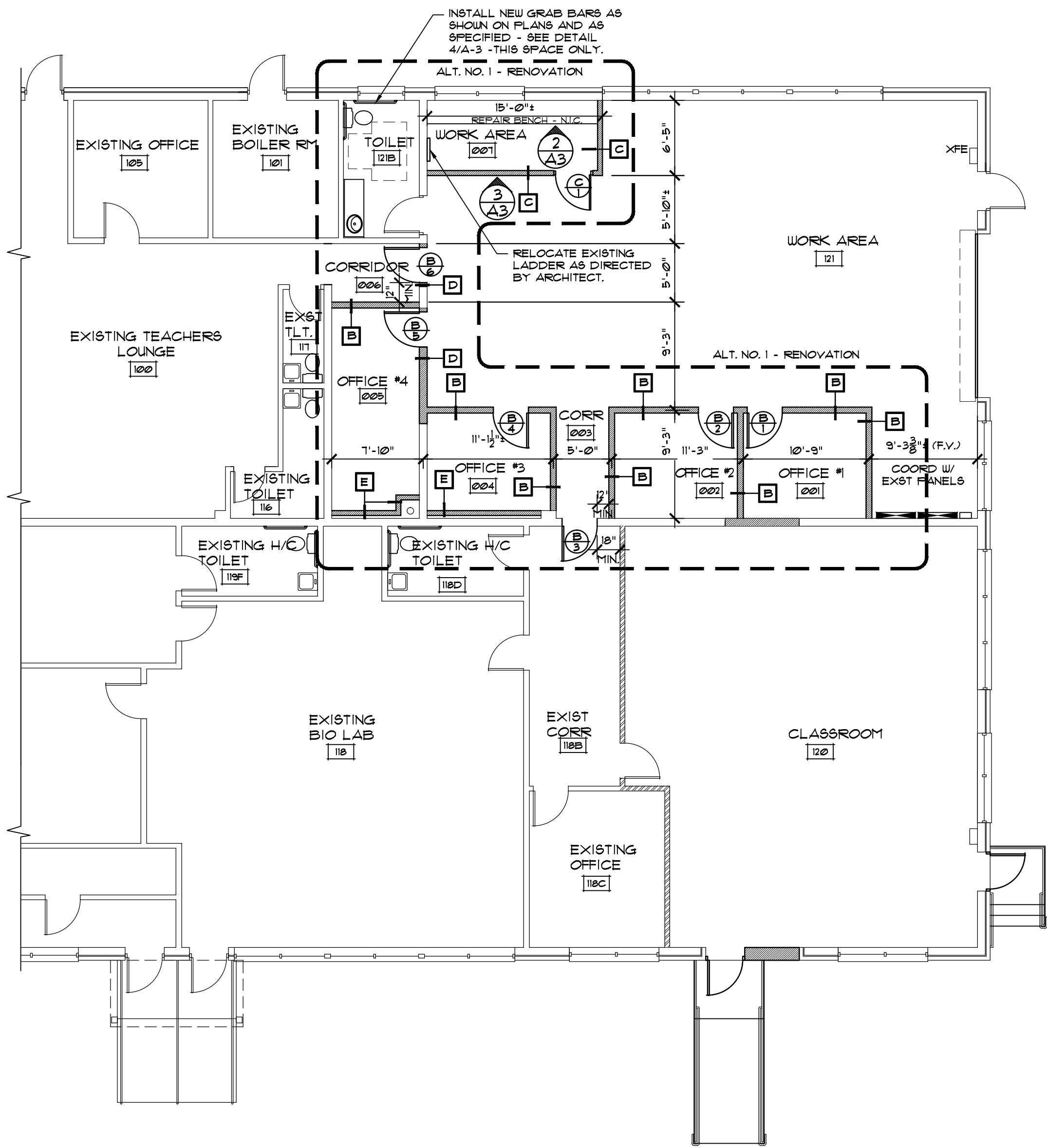
4 Typical - H/C Toilet Room
Scale: 1/4" = 1'-0"



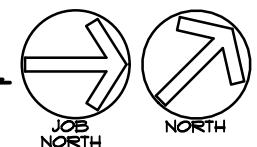
3 Work Area Enclosure
Scale: 1/4" = 1'-0"



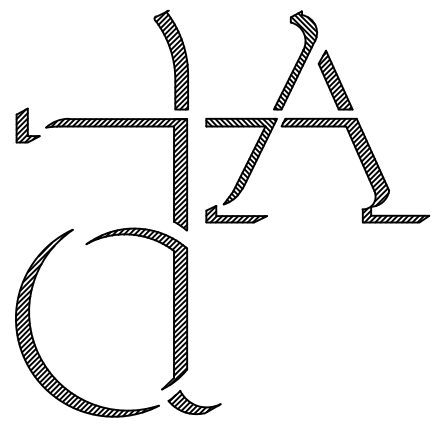
2 Work Area Enclosure
Scale: 1/4" = 1'-0"



1 Renovated Floor Plan - Alt. No. 1
Scale: 1/8" = 1'-0"



1/8"=1'-0" 8' 4' 0 8' 16'



Drakeford Architects

120 North Main Street
Sumter, SC 29150 803 774-2000

Date June 06, 2012

Revisions



Proposed
Renovations for:



East Campus at Walterboro

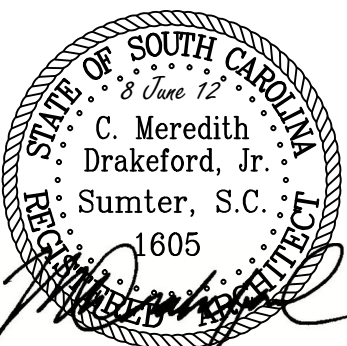
Science Bldg.

807 Hampton Street
Walterboro, S.C.

Project No.

Renovated Floor Plan,
Schedules and Notes
ALTERNATE NO. 1

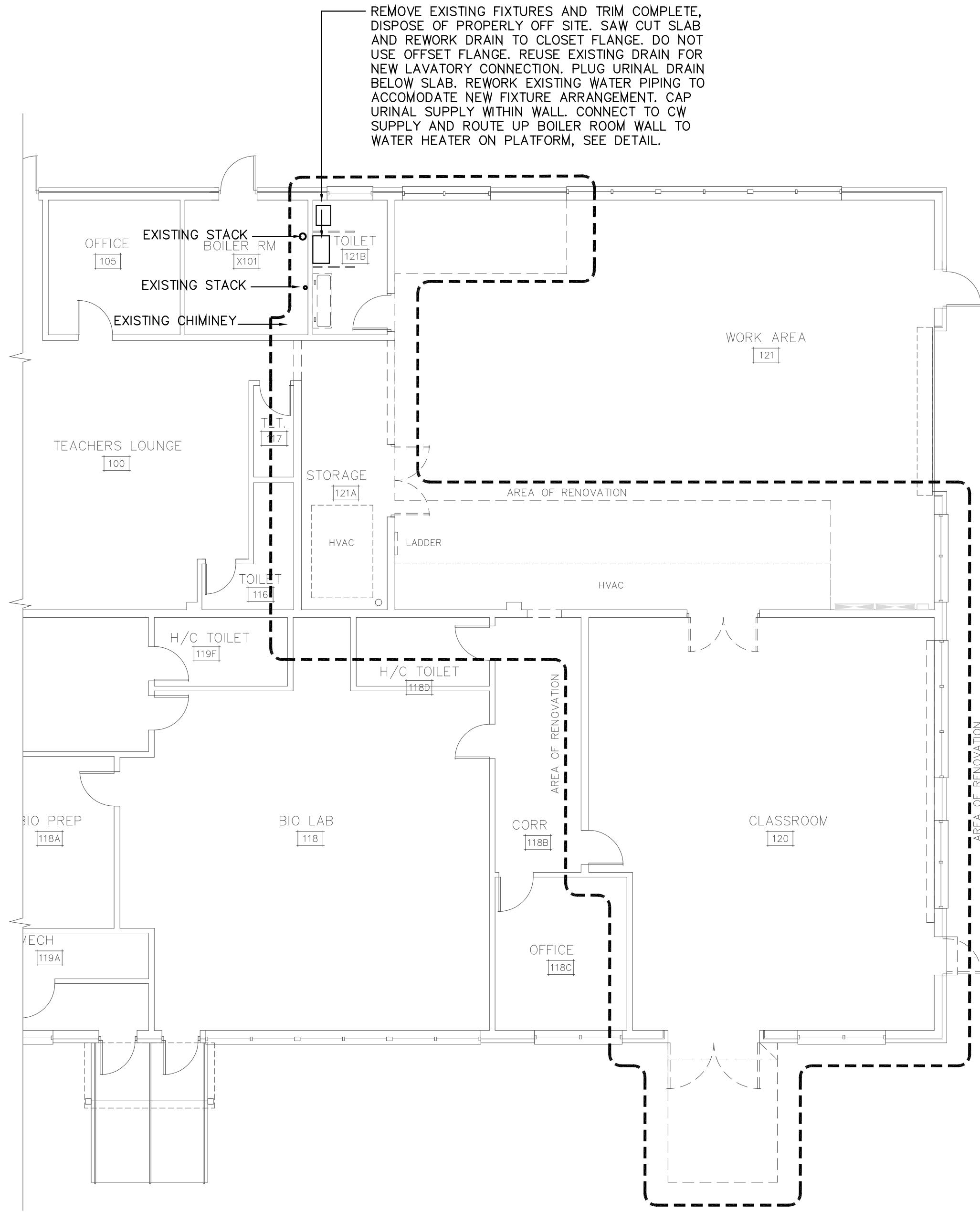
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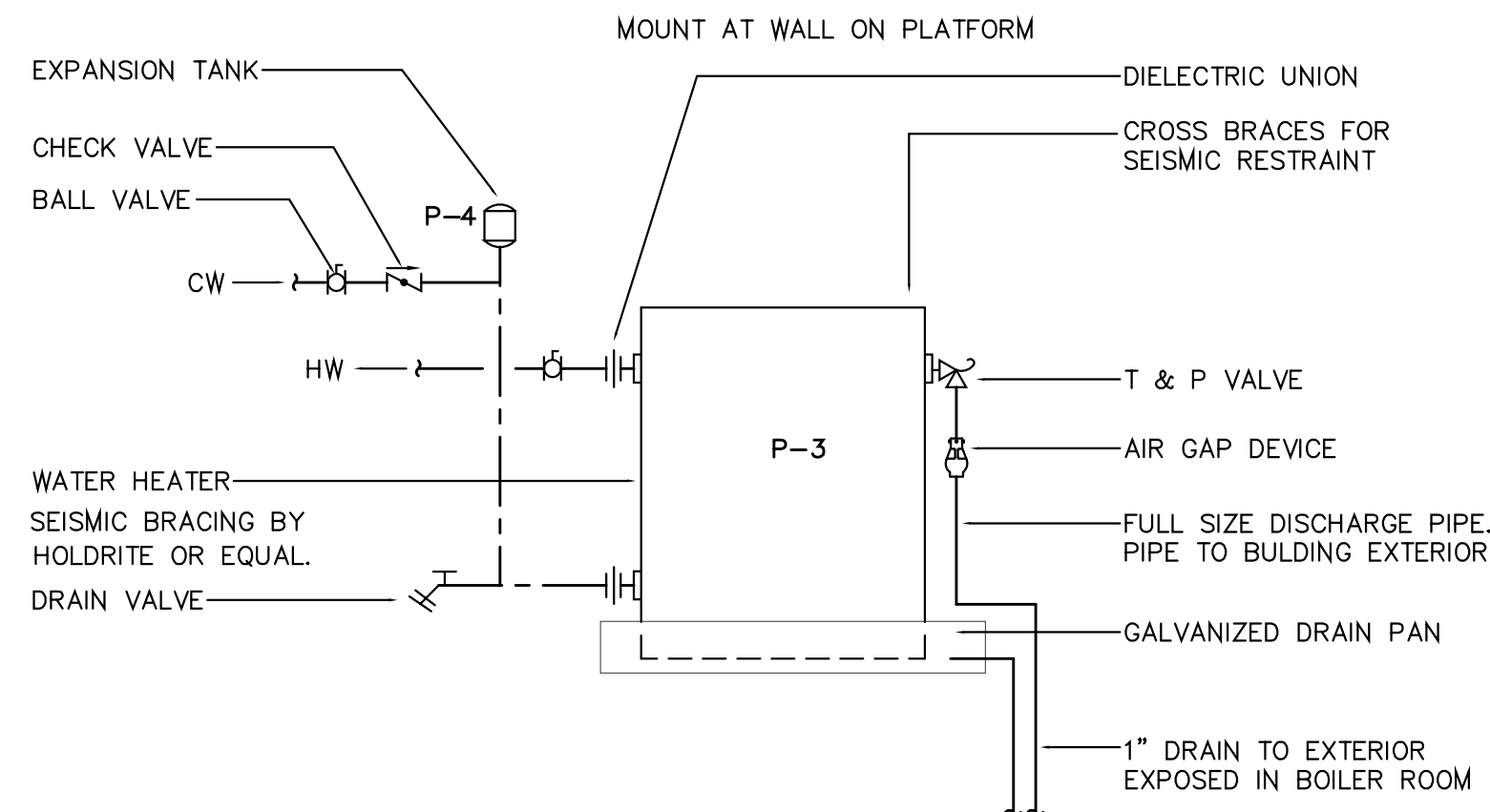
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Sheet A-3 of 3

Rast Dallery Engineers, PC 2: \Projects_2012\12028 USC Walterboro Science Building\51.0200 Drawings - Engineering\12028 plumbing.dwg Aug 08, 2012 - 12:59pm



1 Existing/Demolition Plumbing Plan
Scale: 1/8" = 1'-0"
NORTH NORTH



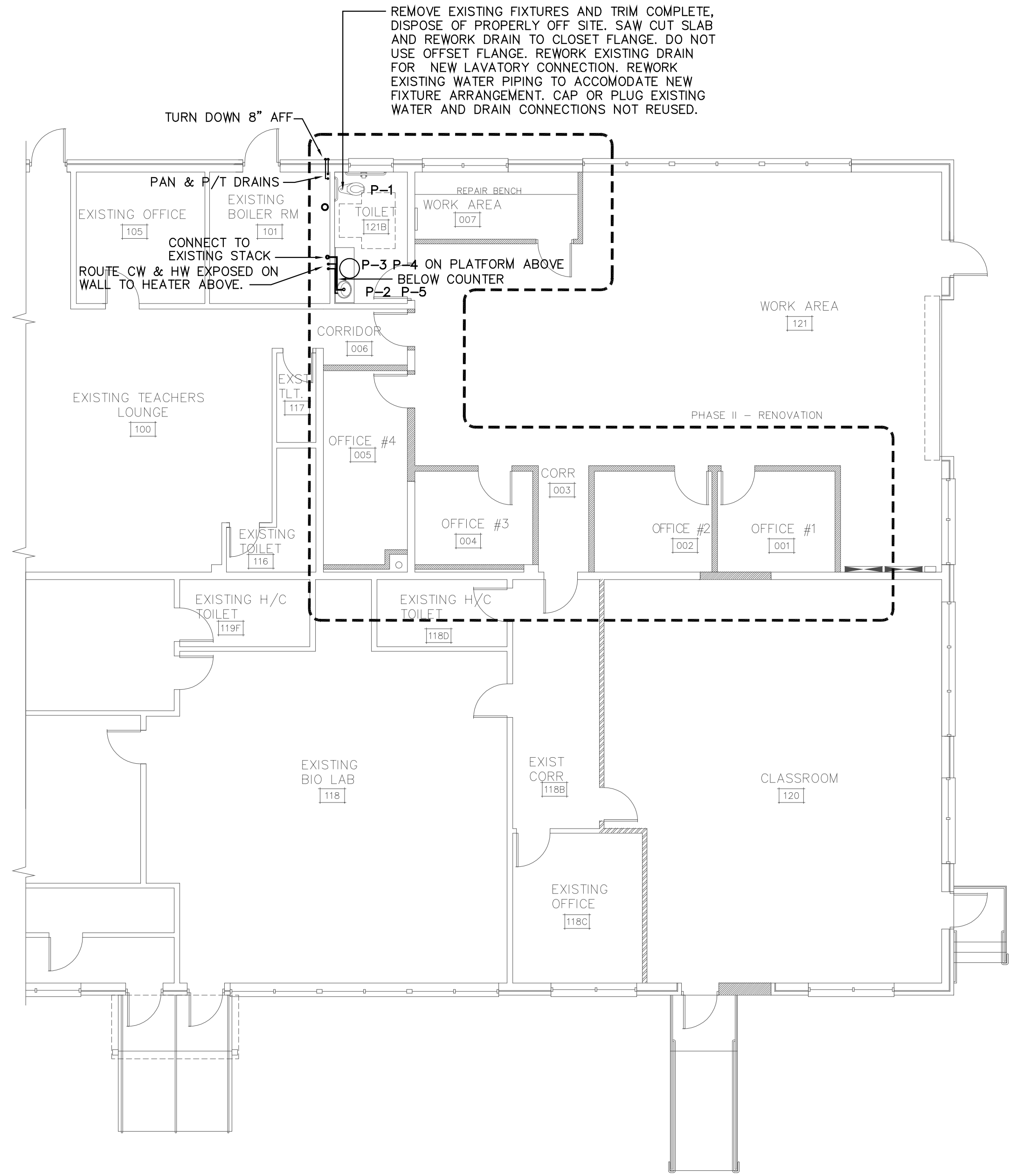
ELECTRIC WATER HEATER
NOT TO SCALE

NOTE TO BIDDERS/CONTRACTOR:

THE PLUMBING DRAWINGS ARE A SCHEMATIC 2D REPRESENTATION OF A 3D SYSTEM. ALL FIELD CONDITIONS MAY NOT BE EVIDENT AT THE TIME OF ISSUANCE OF THIS DOCUMENT. SOME TURNS, ELEVATION CHANGES, FITTINGS ETC. WILL HAVE TO BE CHANGED OR MODIFIED IN THE FIELD TO MEET THE CONDITIONS PRESENT AT THE TIME OF CONSTRUCTION. COORDINATE WITH ALL TRADES AS WELL AS ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL VISIT SITE AND CONFIRM ALL EXISTING CONDITIONS.

RENOVATION/ADDITION NOTE:

PREPARATION OF THESE CONSTRUCTION DRAWINGS IS BASED ON FIELD INVESTIGATIONS OF AS-BUILT CONDITIONS AS CONDUCTED BY THE ARCHITECT AND RAST DALLERY ENGINEERS, P.C. AS A RESULT, REASONABLE ASSUMPTIONS WERE MADE WITH RESPECT TO CONCEALED OR OTHERWISE INACCESSIBLE PORTIONS OF THE EXISTING CONSTRUCTION AND ITS SYSTEMS. AS SUCH, VARIED GRAPHIC DEPICTION OF THE WORK TO BE PERFORMED ARE CONCEPTUAL IN NATURE AND WILL BE SUBJECT TO ADJUSTMENTS IN THE FIELD. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING DIMENSIONS, SLOPES, CONNECTION TO EXISTING SERVICES AND OTHER UNITS OF MEASURE AS IT PERTAINS TO THE EXECUTION OF NEW WORK, AND TO IDENTIFY DISCREPANCIES AND REPORT INFORMATION TO THE ARCHITECT AND OWNER FOR REVIEW AND ADJUSTMENTS.



2 Renovated Plumbing Plan - Phase II
Scale: 1/8" = 1'-0"
NORTH NORTH

SCHEDULE OF PLUMBING FIXTURES & SPECIALTY EQUIPMENT

MARK	DESCRIPTION	COMPONENTS TO BE PROVIDED BY PLBG. CONTR.	PROTOTYPE		FIXTURE CONNECTION SIZES					REMARKS
			BASIC FIXTURE	TRIM & ACCESSORIES	DRAIN WASTE	VENT	H.W.	C.W.	OTHER	
P-1	WATER CLOSET FLOOR MTD. FLUSH VALVE VITREOUS CHINA	COMPLETE UNIT WITH ALL TRIM & ACCESSORIES	AMERICAN STANDARD "MADERA" 17" HIGH 3043.102 ELONGATED BOWL W/ SIPHON JET ACTION	PROVIDE "CHURCH" #9500-SSC SOLID PLASTIC SEAT W/ INTEGRAL BUMPERS & SELF-SUSTAINING S.S. HINGES, EXPOSED FLUSH VALVE - SLOAN OPTIMA G2 #8111 SENSOR TYPE, AND BOLT CAPS	4"	-	-	1"	-	CAULK AT WALL W/ WHITE SILICONE SEALANT MOUNT FLUSH HANDLE ON SIDE OF APPROACH
P-2	LAVATORY COUNTER-TOP VITREOUS CHINA		AMERICAN STANDARD "AQUALYN" 0476.028 20"x 17" WITH 4" CENTERS	SYMMONS "SYMMETRIX" S-20-0 SINGLE LEVER FAUCET W/ #SG7 GRID DRAIN, #LA-10-CF SUPPLIES, #TA-140-CF 17 GA. P-TRAP, TRUEBRO #105-W INSULATION KIT.	2"	2"	1/2"	1/2"	=	PROVIDE G.C. W/ TEMPLATE FOR COUNTER CUT-OUT, INSTALL W/ SEALANT UNDER RIM AS PER MFG. RECOMMEND.
P-3	ELECTRIC WATER HEATER - MTD. ABOVE TOILET CEILING		STATE "SELECT" PV-10-10MS-K MIDGET 10 GAL. CAPACITY 1650W ELEMENT @ 120 V.	DIRECT IMMERSION ELEMENTS, TEMP. CONTROL WITH OVERHEAT PROTECTION & A.S.M.E. T & P RELIEF VALVE. PROVIDE DRAIN PAN UNDER HEATER.	-	-	3/4"	3/4"	FULL SIZE DISCH. LINE	SEE WATER HEATER SCHEMATIC THIS SHEET FOR MOUNTING INSTRUCTIONS.
P-4	EXPANSION TANK		AMTROL #ST-05 EXPANSION TANK	INSTALL PER MFR'S INSTRUCTIONS	-	-	-	3/4"	-	VERIFY EXACT MOUNTING LOCATION AT SITE MOUNT ON WALL BRACKET.
P-5	MIXING VALVE		"SYMMONS" #6-210-CK	INSTALL UNDER EACH LAVATORY	-	-	3/8"	3/8"	-	PROVIDE RIGID SUPPORT FROM PIPING.



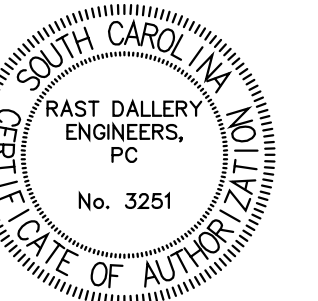
Drakeford Architects

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JOB #12028

Date JUNE 6, 2012

Revisions



Proposed
Renovations for:



East Campus at Walterboro

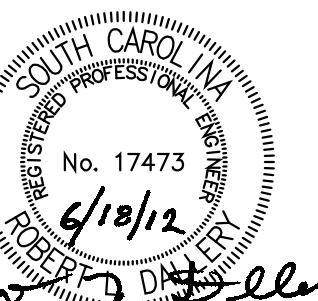
Science Bldg.

807 Hampton Street
Walterboro, S.C.

Project No.

PLUMBING
DEMOLITION
AND PHASE II
PLAN

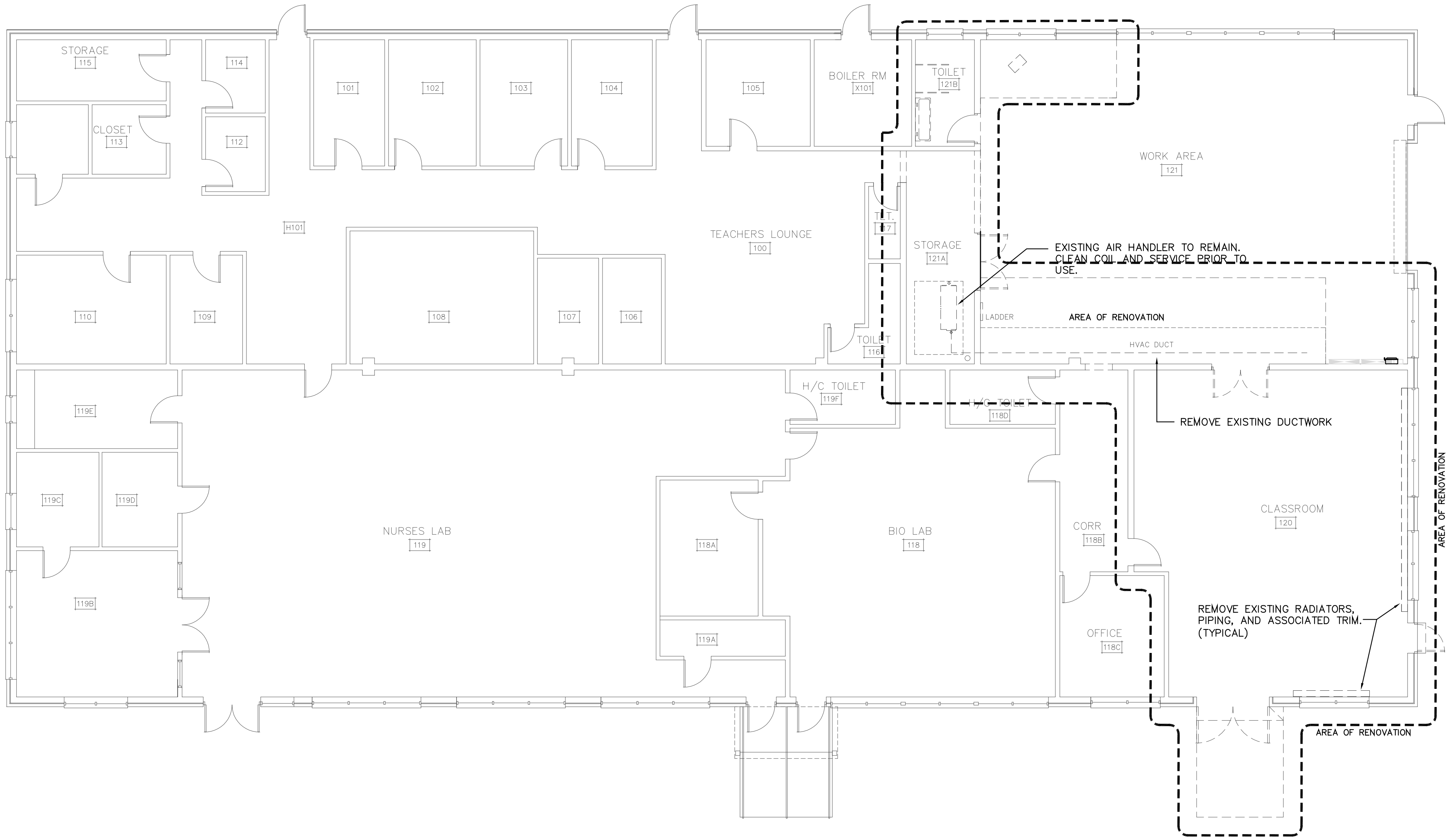
Scale: 1/8"=1'0"



File No. 12028 plumbing.dwg

Sheet **P-1** of 1

Rast Dallery Engineers, PC 2: \Projects_2012\12028 USC Walterboro Science Building\51.0200 Drawings - Engineering\12028 Mech..dwg Aug 08, 2012 - 12:55pm

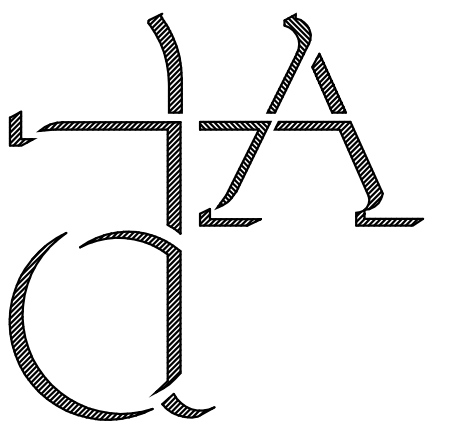
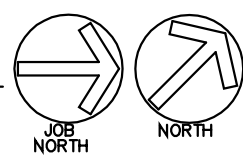


GENERAL DEMOLITION NOTES:

1. DEMOLISH/REMOVE ALL EXISTING UNUSED HVAC EQUIPMENT, INCLUDING AIR HANDLERS, UNIT HEATERS, HOT WATER (HEATING) SYSTEM PIPING, NATURAL GAS PIPING, MAKE UP WATER PIPING, PIPE SUPPORTS /HANGERS, VALVES, INSULATION AND MISCELLANEOUS APPURTENANCES COMPLETE, WITHOUT EXCEPTION.
2. DISCONNECTIONS OR INTERRUPTION OF UTILITY SERVICES SHALL BE APPROVED BY THE OWNER. CONTRACTOR SHALL COORDINATE WITH OWNER PRIOR TO STARTING CONSTRUCTION IN ANY AREA.
3. CONTRACTOR SHALL PROPERLY AND LEGALLY DISPOSE OF ALL DEMOLISHED MATERIALS AT NO ADDITIONAL EXPENSE TO OWNER. CONTRACTOR SHALL INCUR COST OF ANY FEE ASSOCIATED WITH DEMOLITION.
4. ALL DEMOLISHED/REMOVED PIPING SHALL BE CUT-OFF AND CAPPED FLUSH WITH FLOOR/WALL/CEILING PENETRATIONS UNLESS NOTED OTHERWISE.
5. ITEMS WHICH ARE TO REMAIN OR SALVAGED AND ARE DAMAGED DURING PERFORMANCE OF WORK SHALL BE REPAIRED TO THEIR ORIGINAL CONDITION OR REPLACED WITH NEW.

1 Existing/Demolition Mechanical Plan

Scale: 1/8" = 1'-0"



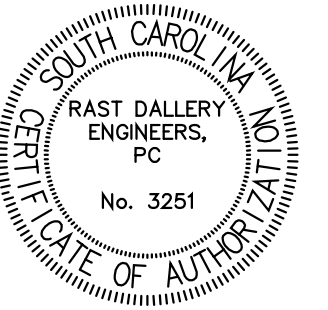
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JOB #12028

Date JUNE 6, 2012

Revisions



Proposed
Renovations for:



East Campus at Walterboro

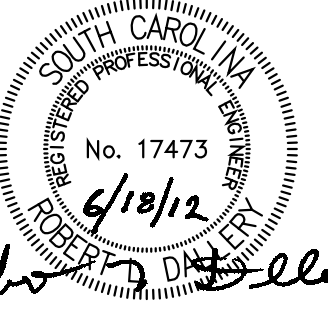
Science Bldg.

807 Hampton Street
Walterboro, S.C.

Project No.

MECHANICAL
EXISTING/DEMO
PLAN

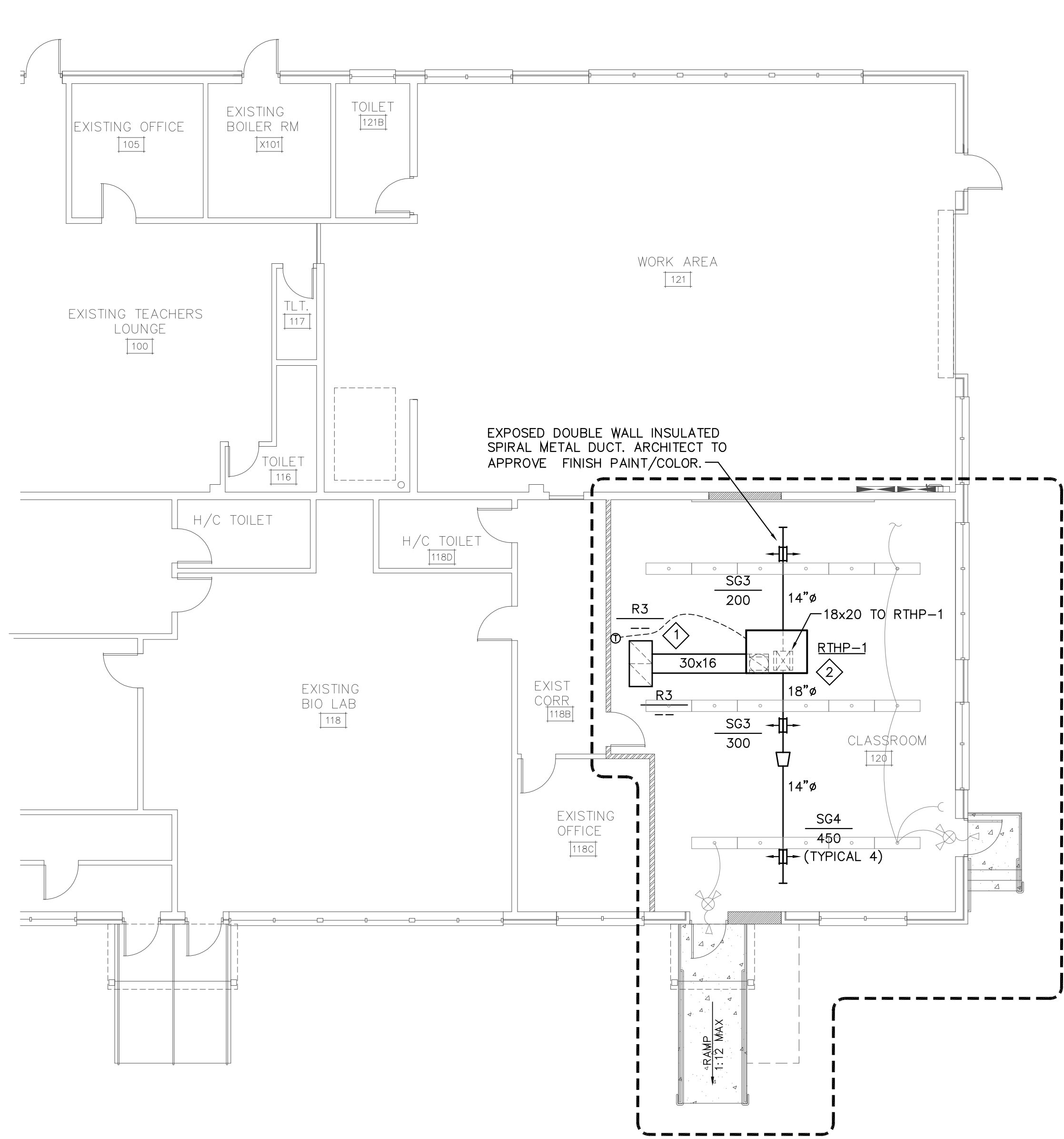
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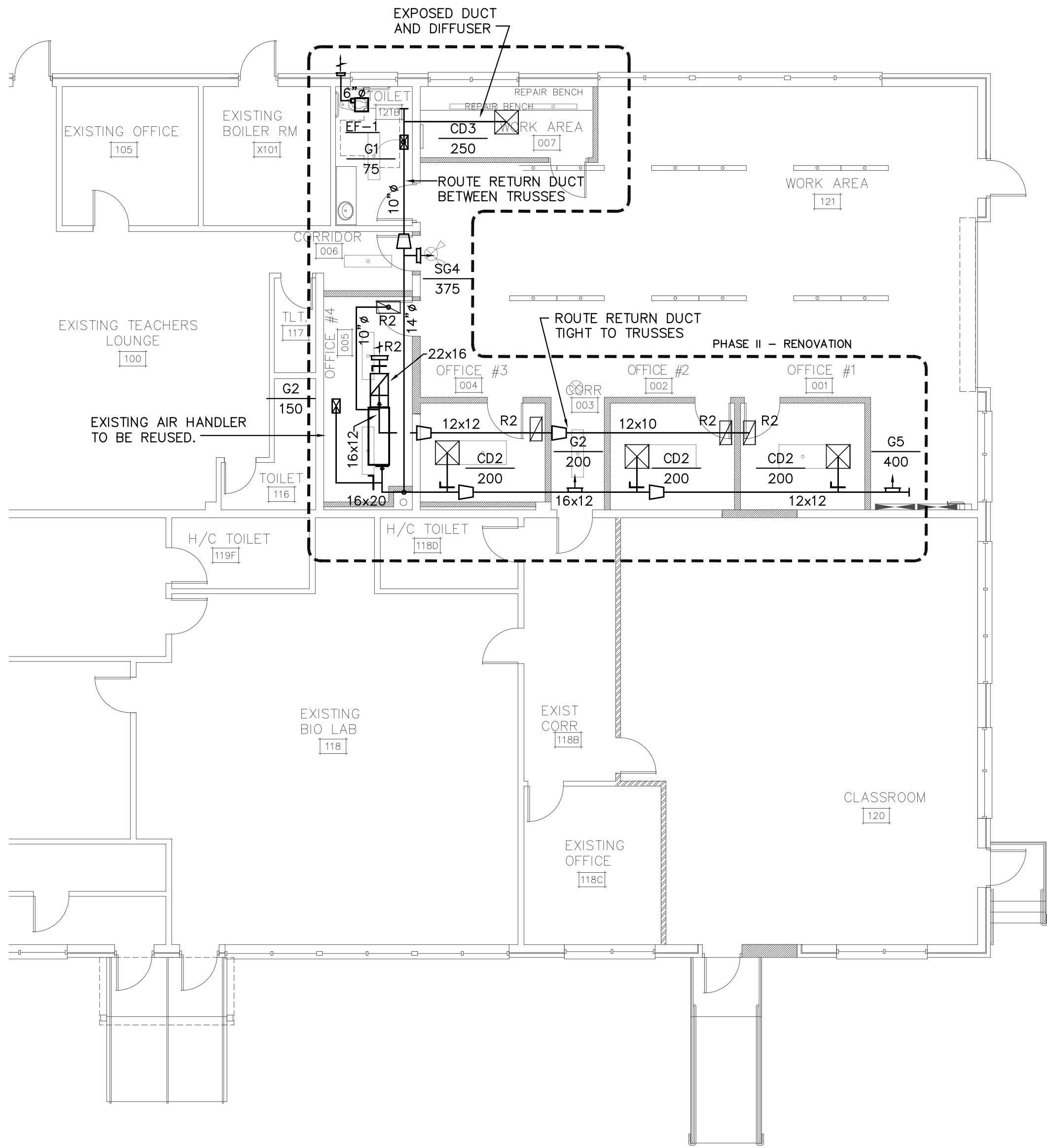
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Sheet **M-1** of 3

Rast Dallery Engineers, PC Z:\Projects_2012\12028 USC Walterboro Science Building\51.0200 Drawings - Engineering\12028 Mech..dwg Aug 08, 2012 -- 12:55pm



1
E2 Renovated Mechanical Plan - Phase I
Scale: 1/8" = 1'-0"



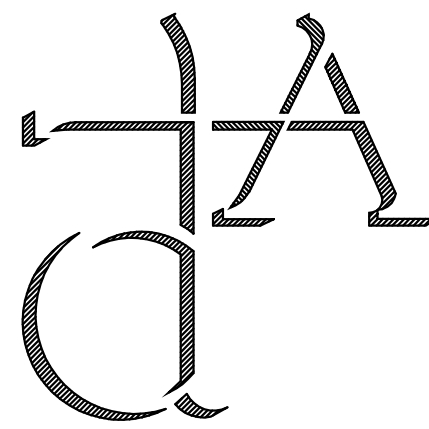
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E2 Renovated Mechanical Plan - Phase II
Scale: 1/8" = 1'-0"

GENERAL NOTES:

1. REFER TO SHEET M3 FOR SCHEDULES, NOTES, AND DETAILS.
2. REFER TO ARCHITECTURAL DRAWINGS TO DETERMINE FIRE RATED WALLS/CEILINGS/ASSEMBLIES AND SMOKE BARRIERS. FIRE/SMOKE/RADIATION DAMPERS WILL BE REQUIRED, AS APPLICABLE PER THE INTERNATIONAL BUILDING CODE/INTERNATIONAL MECHANICAL CODE.

KEYED NOTES (THIS SHEET):

- 1 FABRICATE RETURN BOX TO FIT OVER RETURN GRILLES. ROUTE DUCT FROM SIDE OF BOX TO RTHP.
- 2 PROVIDE "RAWAL DEVICES" APR CONTROL ON SYSTEM. COORDINATE SIZING AND INSTALLATION WITH MR. TONY PORTER, EPTING DISTRIBUTORS, PHONE NUMBER 843-601-2023.



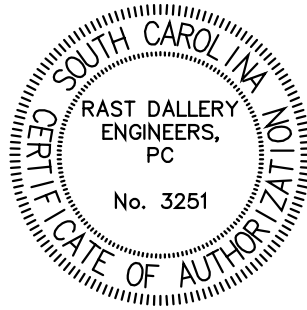
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Date JUNE 6, 2012

Revisions



Proposed
Renovations for:



East Campus at Walterboro

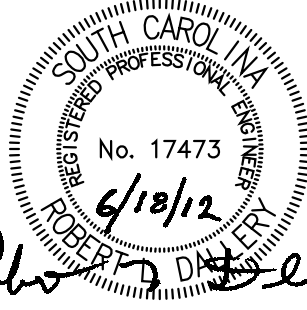
Science Bldg.

807 Hampton Street
Walterboro, S.C.

Project No.

MECHANICAL
PHASE I&II
PLAN

Scale: 1/8"=1'0"



File No. 12028 Mech..dwg

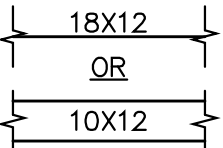
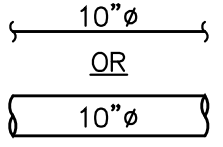

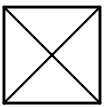
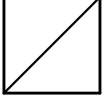
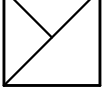

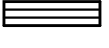





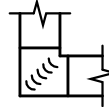








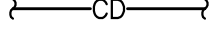






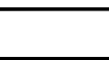

Sheet **M-2** of 3

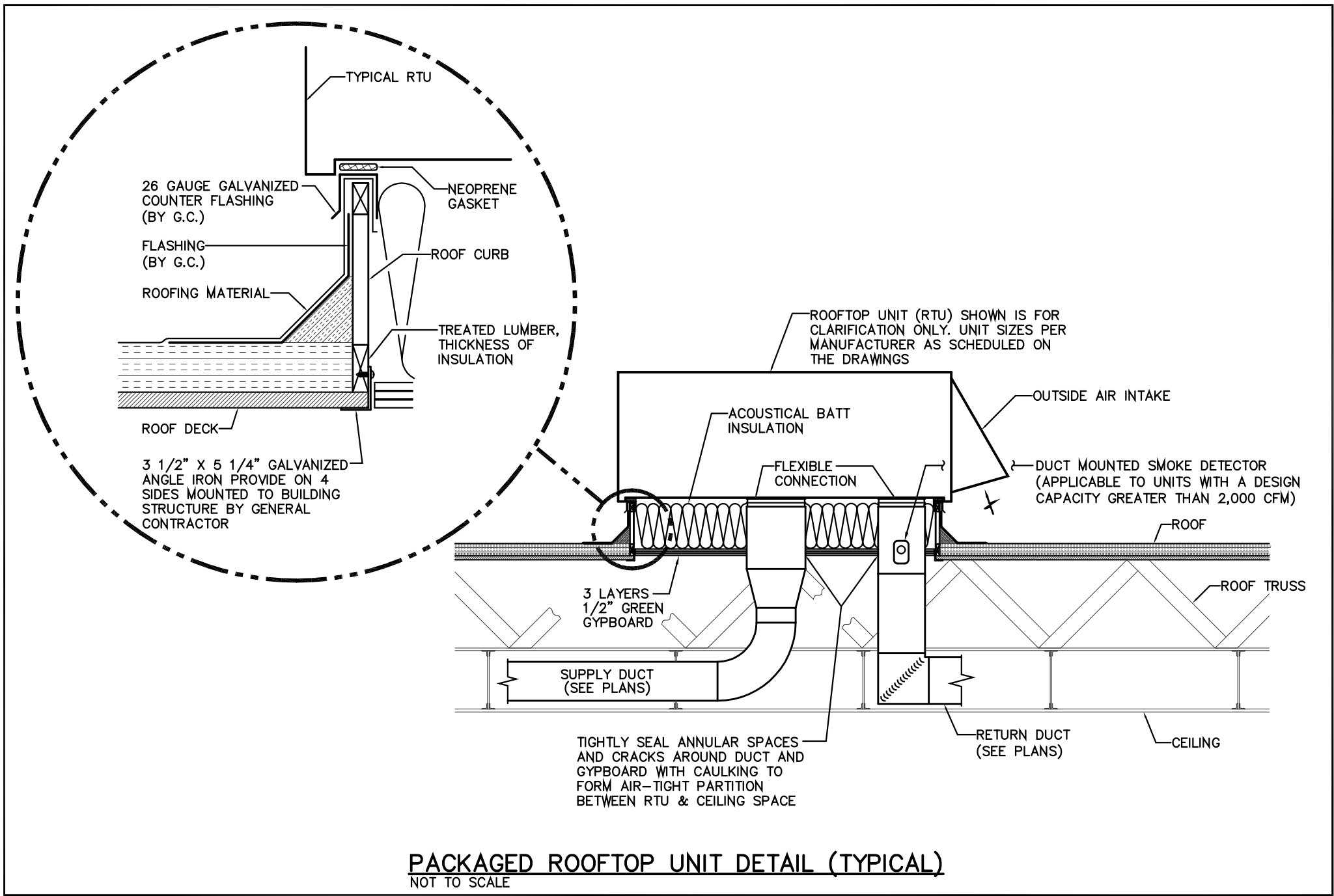
DIFFUSER, REGISTER, AND LOUVER SCHEDULE							
MARK	DESCRIPTION	SERVICE	CFM	STAT. PRESS.	NECK SIZE	MANUFACTURER & MODEL NO.	ACCESSORIES
CD1	CEILING DIFFUSER	SUPPLY	0-100	.056	6"ø	METAL*AIRE 5800A AL (12"x12" or 24"x24" FACE)	1,3,5
CD2	CEILING DIFFUSER	SUPPLY	101-245	.074	8"ø	METAL*AIRE 5800A AL (24"x24" FACE)	1,3,5
CD3	CEILING DIFFUSER	SUPPLY	246-380	.084	10"ø	METAL*AIRE 5800A AL (24"x24" FACE)	1,3,5
CD4	CEILING DIFFUSER	SUPPLY	381-550	.098	12"ø	METAL*AIRE 5800A AL (24"x24" FACE)	1,3,5
R1	RETURN GRILLE	RETURN	601-2000	----	---	METAL*AIRE CC15-1 (24"x24" FACE)	3
R2	RETURN GRILLE	RETURN	< 600	----	---	METAL*AIRE CC15-1 (24"x12" FACE)	3
R3	RETURN GRILLE	RETURN	0-1600	----	---	METAL*AIRE CC5F (24"x24" FACE)	2
SG1	SPIRAL DUCT GRILLE	SUPPLY	0-100	.016	12"x4"	METAL*AIRE 4004P	4,7,8
SG2	SPIRAL DUCT GRILLE	SUPPLY	101-245	.017	16"x6"	METAL*AIRE 4004P	4,7,8
SG3	SPIRAL DUCT GRILLE	SUPPLY	246-380	.02	18"x8"	METAL*AIRE 4004P	4,7,8
SG4	SPIRAL DUCT GRILLE	SUPPLY	400-800	.02	24"x12"	METAL*AIRE 4004P	4,7,8
G1	CEILING/SIDEWALL GRILLE	SUPPLY	0-100	.016	10"x4"	METAL*AIRE 4004	2,4
G2	CEILING/SIDEWALL GRILLE	SUPPLY	101-245	.025	10"x8"	METAL*AIRE 4004	2,4,8
G3	CEILING/SIDEWALL GRILLE	SUPPLY	246-380	.02	16"x8"	METAL*AIRE 4004	2,4
G4	CEILING/SIDEWALL GRILLE	SUPPLY	300-400	.02	24"x6"	METAL*AIRE 4004	2,4
G5	CEILING/SIDEWALL GRILLE	SUPPLY	401-600	.19	30"x8"	METAL*AIRE 4004	2,4
ACCESSORIES:							
1. NECK DAMPER							
2. SURFACE MOUNT							
3. LAY-IN							
4. PROVIDE OPPOSED BLADE DAMPER (FACE OPERATED)							
5. BRANCH DUCT TO BE DIFFUSER NECK SIZE UNLESS NOTED OTHERWISE							
6. INSECT SCREEN							
7. END CAP AND GASKET SEAL							
8. CONFIRM/COORDINATE COLOR WITH ARCHITECT PRIOR TO ORDERING.							
NOTES:							
1. DIFFUSERS SHALL BE 4-WAY THROW UNLESS OTHERWISE INDICATED BY FLOW ARROWS (→)							
2. ARCHITECT TO APPROVE/CONFIRM COLOR OF DIFFUSERS/REGISTERS/GRILLES.							

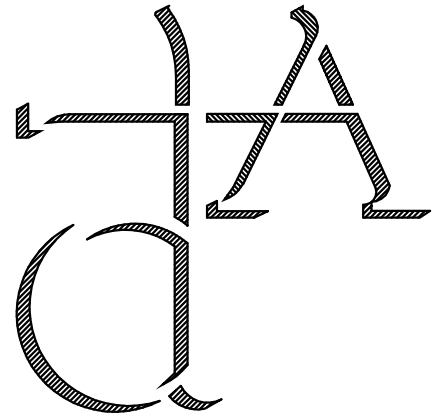
FAN SCHEDULE									
MARK	MAKE/MODEL	DESCRIPTION	TYPE	CFM	RPM	ESP	HP (WATTS)	VOLTS/PH.	ACCESSORIES
EF-1	COOK GC-124	CEILING MOUNTED CENTRIFUGAL	EXHAUST	75	1100	0.25	(64)	115/1	1,2,3,5
1. BACKDRAFT DAMPER									
2. DISCONNECT SWITCH									
3. DELUXE ALUMINUM GRILLE									
4. FAN SPEED CONTROLLER									
5. ALUMINUM WALL CAP WITH DAMPER									

PACKAGED ROOFTOP HEAT PUMP SCHEDULE											
MARK	CFM	O.A. CFM	EXT. S.P. (IN.)	COOLING CAP. (MBH) *		EER	HEATING CAP. (MBH)	AUXILIARY HEAT (KW @ 240V/3ø)	VOLTS/PH.	MANUFACTURER & MODEL NO.	REQUIRED FEATURES/OPTIONS
				TOTAL	SENSIBLE						
RTHP-1	2400	300	0.5	77.0	60.1	11.3	68.0	9.0	240/3	TRANE WSC072	1,2,3,5,6,7,8,10,11
* ARI CONDITIONS											
REQUIRED FEATURES/OPTIONS											
1. FACTORY ROOF CURB.											
2. MOTORIZED 0-50% MAN. OUTSIDE AIR DAMPER.											
3. HINGED ACCESS PANELS.											
4. SEACOAST COATED COILS W/HAIL GUARD.											
5. THRU BASE ELECTRICAL CONNECTION.											
6. SINGLE POINT ELECTRICAL ENTRY.											
7. CONVENIENCE OUTLET.											
8. HIGH PRESSURE CONTROL, FROSTAT & CRANKCASE HEATER.											
9. RETURN AIR SMOKE DETECTOR.											
10. AUTO CHANGEOVER DIGITAL THERMOSTAT.											
11. PROVIDE "RAWAL DEVICES" APR CONTROL.											

GENERAL NOTES/MATERIALS AND INSTALLATION:	
1. THE WORK UNDER THIS DIVISION INCLUDES THE INSTALLATION OF COMPLETE MECHANICAL SYSTEMS CONSISTING OF, BUT NOT LIMITED TO HEATING AND AIR CONDITIONING.	
2. FURNISH AND INSTALL COMPLETE YEAR-ROUND HEATING AND AIR CONDITIONING SYSTEMS AS SHOWN ON THE DRAWINGS, FINISHED IN ALL RESPECTS READY FOR USE.	
3. DO NOT SCALE PLANS. ROUGH FROM ARCHITECTURAL AND EQUIPMENT MANUFACTURER'S DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS.	
4. THE CONTRACTOR SHALL VISIT THE JOB SITE AND VERIFY ALL CONDITIONS AFFECTING THIS WORK, PRIOR TO SUBMITTING HIS PROPOSAL/SIGNING A CONTRACT.	
5. ALL WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES AND ORDINANCES. THE CONTRACTOR SHALL APPLY FOR ALL REQUIRED PERMITS, INSPECTIONS, ETC. ALL WORK SHALL COMPLY WITH THE 2006 INTERNATIONAL MECHANICAL CODE (IMC).	
6. ALL DUCTWORK SHALL BE GALVANIZED STEEL. DUCT SHALL BE FABRICATED, ASSEMBLED AND MOUNTED ACCORDING TO SMACNA GUIDELINES. SUPPLY AND RETURN SHALL BE WRAPPED WITH 3"-3/4 lb DENSITY FIBERGLASS BLANKET INSULATION AND FACTORY APPLIED VAPOR BARRIER. DUCT DIMENSIONS ARE CLEAR INSIDE DIMENSIONS. SEAL ALL TAPED INSULATION JOINTS WITH MASTIC. FIELD VERIFY ALL CONDITIONS AFFECTING DUCT ROUTING PRIOR TO FABRICATION OF DUCTWORK. PROVIDE FLEXIBLE CONNECTIONS AT ALL RETURN AND SUPPLY DUCT CONNECTIONS TO AIR HANDLERS.	
7. NOT USED.	
8. FLEXIBLE ROUND DUCTS SHALL BE FACTORY PRE-INSULATED WITH AN R-8 RATED FIBERGLASS INSULATION BLANKET AND VAPOR BARRIER OF ALUMINUM METALIZED POLYESTER SHEATHING LAMINATED TO A REINFORCING GLASS MESH. ROUND DUCT TAKE-OFFS SHALL BE SPIN-IN TYPE WITH INTEGRAL VOLUME DAMPER. BRANCH DUCTS SHALL BE RIGID METAL TO WITHIN 5 FEET OF REGISTER. FINAL 5 FEET SHALL BE FLEX DUCT.	
9. ALL DUCTWORK MATERIALS, INCLUDING CEMENTS AND VAPOR BARRIER SHALL CONFORM TO THE REQUIREMENTS OF UL 181 STANDARDS FOR CLASS 1 AIR DUCT MATERIAL, NFPA-90A AND SMACNA FGDCS.	
10. PROVIDE TURNING VANES IN ALL RECTANGULAR DUCT ELBOWS.	
11. PROVIDE VOLUME DAMPERS WHERE INDICATED AND AT ALL BRANCH TAKE-OFFS TO FACILITATE PROPER BALANCE.	
12. THE SYSTEM SHALL BE PROPERLY TESTED, ADJUSTED AND BALANCED. PROVIDE A LETTER TO THE OWNER STATING THE AIR DELIVERY AT EACH OUTLET IS WITHIN 10% OF THAT SPECIFIED ON THE DRAWING.	
13. PROVIDE ALL FILTER FRAMES WITH NEW DISPOSABLE FILTERS AT THE COMPLETION OF THE PROJECT.	
14. PROVIDE WALL SLEEVES OR METAL THIMBLES AT LEAST 3/8" LARGER THAN THE O.D. OF ALL O.D. PIPING PENETRATING CONCRETE OR MASONRY WALLS, CEILINGS, OR FLOORS. SEAL AROUND PENETRATIONS WITH MATERIALS APPROVED BY THE ARCHITECT. SEAL AROUND SLEEVES IN EXTERIOR CONCRETE OR MASONRY WALLS WITH GROUT.	
15. ALL ROOF PENETRATIONS SHALL BE FLASHED BY A LICENSED ROOFER AT NO ADDITIONAL EXPENSE TO OWNER.	
16. THE CONTRACTOR SHALL WARRANTY ALL NEW EQUIPMENT, MATERIALS AND LABOR FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE OR FIRST BENEFICIAL USE BY THE OWNER, WHICHEVER COMES FIRST. COMPRESSORS SHALL BE WARRANTED FOR 5 YEARS.	
17. DUCT ROUTING IS DIAGRAMMATIC IN NATURE AND DOES NOT REPRESENT ALL REQUIRED TURNS AND FITTINGS TO ROUTE DUCT AS SHOWN. FIELD VERIFY ALL CONDITIONS AFFECTING DUCT ROUTING PRIOR TO FABRICATION OF DUCT.	
18. SIZE REFRIGERANT PIPING PER HEAT PUMP MANUFACTURER'S RECOMMENDATION FOR DISTANCE AND LIFT BETWEEN AIR HANDLER AND HEAT PUMP. INCLUDE ANY EQUIPMENT OR PIPE ACCESSORIES RECOMMENDED BY MANUFACTURER. THIS INCLUDES, BUT IS NOT LIMITED TO, SUCTION LINE ACCUMULATORS, HEAD PRESSURE CONTROLS, TXVS, ORIFICE CHANGE, CRANKCASE HEATER, PIPE MATERIAL, AND TIME DELAY RELAY.	
19. SEAL PERIMETER OF EXHAUST AND MAKE-UP AIR VENTS WITH PAINTABLE WEATHERPROOF SEALANT.	
20. RESTROOM EXHAUST FANS SHALL BE INTERLOCKED WITH THE LIGHTS BY ELECTRICAL CONTRACTOR, UNLESS SPECIFIED OTHERWISE ON THE ELECTRICAL DRAWINGS.	
21. PIPE PRIMARY CONDENSATE TO LOCATION SHOWN. CONDENSATE PIPE SHALL BE SCHEDULE 40 PVC. PROVIDE P-TRAP WITH CLEAN-OUT AND SLOPE TO DRAIN. INSULATE ENTIRE DRAIN LINE WITH 1/2" ARMAFLEX INSULATION.	
22. MECHANICAL EQUIPMENT ACCESS, CATWALKS AND GUARD RAILS PROVIDED BY GENERAL CONTRACTOR.	
23. COORDINATE EXACT LOCATION OF CEILING GRILLES AND DIFFUSERS WITH LIGHTING AND OTHER TRADES. WHERE DIFFUSER OR GRILLE INTERFERES WITH LIGHTING, LOCATE GRILLE OR DIFFUSER IN NEAREST OPEN TILE TO LOCATION SHOWN.	
24. SMOKE ALARM SHUTDOWN: MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL DUCT MOUNTED SMOKE DETECTORS IN THE RETURN PLENUM OF EACH AIR HANDLER EXCEEDING 2000 CFM NOMINAL CAPACITY. CONTRACTOR SHALL WIRE AIR HANDLERS TO SHUT DOWN IN THE EVENT OF SMOKE DETECTION.	
25. PROVIDE SEISMIC PROTECTION OF DUCT, AIR HANDLERS, AND OUTDOOR EQUIPMENT PER SECTION 301.16 OF THE IMC.	
26. ALL EXHAUST DUCTS SHALL BE RIGID GALVANIZED STEEL AND INSULATED FOR ENTIRE RUN. INSULATE PER NOTE 6..	
27. HEAT PUMPS/CONDENSING UNITS SHALL BE MOUNTED ON CONCRETE PADS 4" MINIMUM ABOVE FINISHED GRADE.	
28. PROVIDE AUXILIARY DRAIN PANS WITH FLOAT SWITCH AND/OR OVERFLOW PIPE. PIPE AS ACCEPTABLE BY LOCAL BUILDING OFFICIALS FOR AIR HANDLERS.	
29. TEMPORARY CLOSURE SHALL BE PROVIDED AT ENDS OF DUCTS WHICH ARE NOT CONNECTED TO EQUIPMENT OR AIR DEVICES AT THE TIME OF INSTALLATION. PROVIDE TEMPORARY CLOSURE OF POLYETHYLENE FILM OR SIMILAR COVERING TO PREVENT DUST AND DEBRIS FROM ENTERING DUCTWORK. DUCTWORK THAT IS AWAITING INSTALLATION SHALL BE COVERED WITH THE SAME TEMPORARY CLOSURE.	
30. EQUIPMENT INSTALLED OR AWAITING INSTALLATION SHALL BE PROTECTED FROM THE ELEMENTS AS WELL AS DAMAGE, DUST, DEBRIS, ETC. EQUIPMENT SHALL NOT BE USED PRIOR TO FINAL ACCEPTANCE WITHOUT PRIOR WRITTEN APPROVAL FROM THE OWNER.	

LEGEND	
	RECTANGULAR DUCT ROUTING WITH CLEAR INSIDE WIDTH X HEIGHT DIMENSIONS NOTED IN INCHES.
	RIGID ROUND BRANCH DUCT WITH NOMINAL DIAMETER NOTED IN INCHES.
	FLEXIBLE DUCT ROUTING WITH NOMINAL DIAMETER NOTED IN INCHES.
	CEILING DIFFUSER
	CEILING RETURN GRILLE
	CEILING MOUNTED EXHAUST GRILLE
	CEILING MOUNTED GRILLE OR REGISTER
	CEILING MOUNTED LINEAR SLOT REGISTER/DIFFUSER
	WALL MOUNTED SUPPLY OR EXHAUST LOUVER/REGISTER
	DUCT TRANSITION (SQUARE TO ROUND)
	DUCT TRANSITION
	ZONE DAMPER
	MANUAL DUCT DAMPER
	TURNING VANES
	THERMOSTAT, MOUNT 48" ABOVE FINISHED FLOOR
	TEMPERATURE SENSOR, MOUNT 48" ABOVE FINISHED FLOOR
	HUMIDITY SENSOR, MOUNT 48" ABOVE FINISHED FLOOR
	U.L. LISTED DUCT MOUNTED SMOKE DETECTOR. WIRE TO SHUT DOWN AIR HANDLER UPON DETECTION OF SMOKE.
	GRILLE, REGISTER, LOUVER AND DIFFUSER MARK WITH ASSOCIATED SCHEDULE ITEM AND BALANCED CFM NOTED.
	FIRE DAMPER. (REFER TO ARCHITECTURAL PLAN FOR ASSEMBLY RATINGS).
	SMOKE DAMPER. (REFER TO ARCHITECTURAL PLAN FOR ASSEMBLY RATINGS).
	FIRE/SMOKE DAMPER. (REFER TO ARCHITECTURAL PLAN FOR ASSEMBLY RATINGS).
	CONDENSATE DRAIN PIPING
	OUTSIDE AIR
	CHILLED WATER SUPPLY PIPING
	CHILLED WATER RETURN PIPING
	HEATING WATER SUPPLY PIPING
	HEATING WATER RETURN PIPING
	PREFRABRICATED CONDENSATE SPLASH BLOCK
	TURNING VANES IN DUCT FITTING
	EXISTING
RENOVATION/ADDITION NOTE:	
PREPARATION OF THESE CONSTRUCTION DRAWINGS IS BASED ON FIELD INVESTIGATIONS OF AS-BUILT CONDITIONS AS CONDUCTED BY THE ARCHITECT AND RAST DALLERY ENGINEERS, P.C. AS A RESULT, REASONABLE ASSUMPTIONS WERE MADE WITH RESPECT TO CONCEALED OR OTHERWISE INACCESSIBLE PORTIONS OF THE EXISTING CONSTRUCTION AND ITS SYSTEMS. AS SUCH, VARIED GRAPHIC DEPICTION OF THE WORK TO BE PERFORMED ARE CONCEPTUAL IN NATURE AND WILL BE SUBJECT TO ADJUSTMENTS IN THE FIELD. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING DIMENSIONS, SLOPES, CONNECTION TO EXISTING SERVICES AND OTHER UNITS OF MEASURE AS IT PERTAINS TO THE EXECUTION OF NEW WORK, AND TO IDENTIFY DISCREPANCIES AND REPORT INFORMATION TO THE ARCHITECT AND OWNER FOR REVIEW AND ADJUSTMENTS.	
NOTE TO BIDDERS/CONTRACTORS:	
THE DRAWINGS ARE A SCHEMATIC 2D REPRESENTATION OF A 3D SYSTEM. ALL FIELD CONDITIONS MAY NOT BE EVIDENT AT THE TIME OF ISSUANCE OF THIS DRAWING. SOME TURNS, ELEVATION CHANGES, DUCTWORK FITTINGS, ETC. WILL HAVE TO BE FABRICATED, CHANGED OR MODIFIED IN THE FIELD TO MEET THE CONDITIONS PRESENT AT THE TIME OF CONSTRUCTION. COORDINATE WITH ALL TRADES AS WELL AS ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL OBTAIN A SET OF ARCHITECTURAL DRAWINGS FOR COORDINATION PRIOR TO SUBMITTING A BID.	





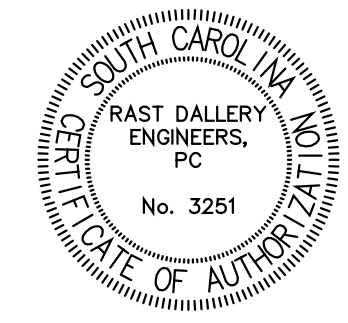
Drakeford Architects

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JOB #12028

Date JUNE 6, 2012

Revisions



Proposed Renovations for:



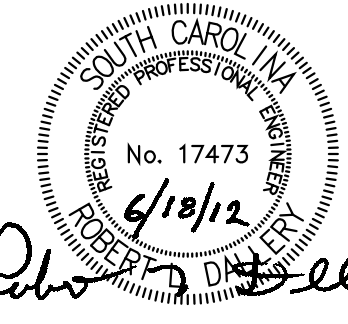
East Campus at Walterboro

Science Bldg.
807 Hampton Street
Walterboro, S.C.

Project No.

MECHANICAL
LEGEND, NOTES
AND DETAILS

Scale: 1/8"=1'0"



Rast Dallery

File No. 12028 Mech.dwg

Sheet **M-3** of 3



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Date JUNE 6, 2012

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East Campus at Walterboro

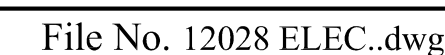
Science Bldg.

807 Hampton Street
Walterboro, S.C.

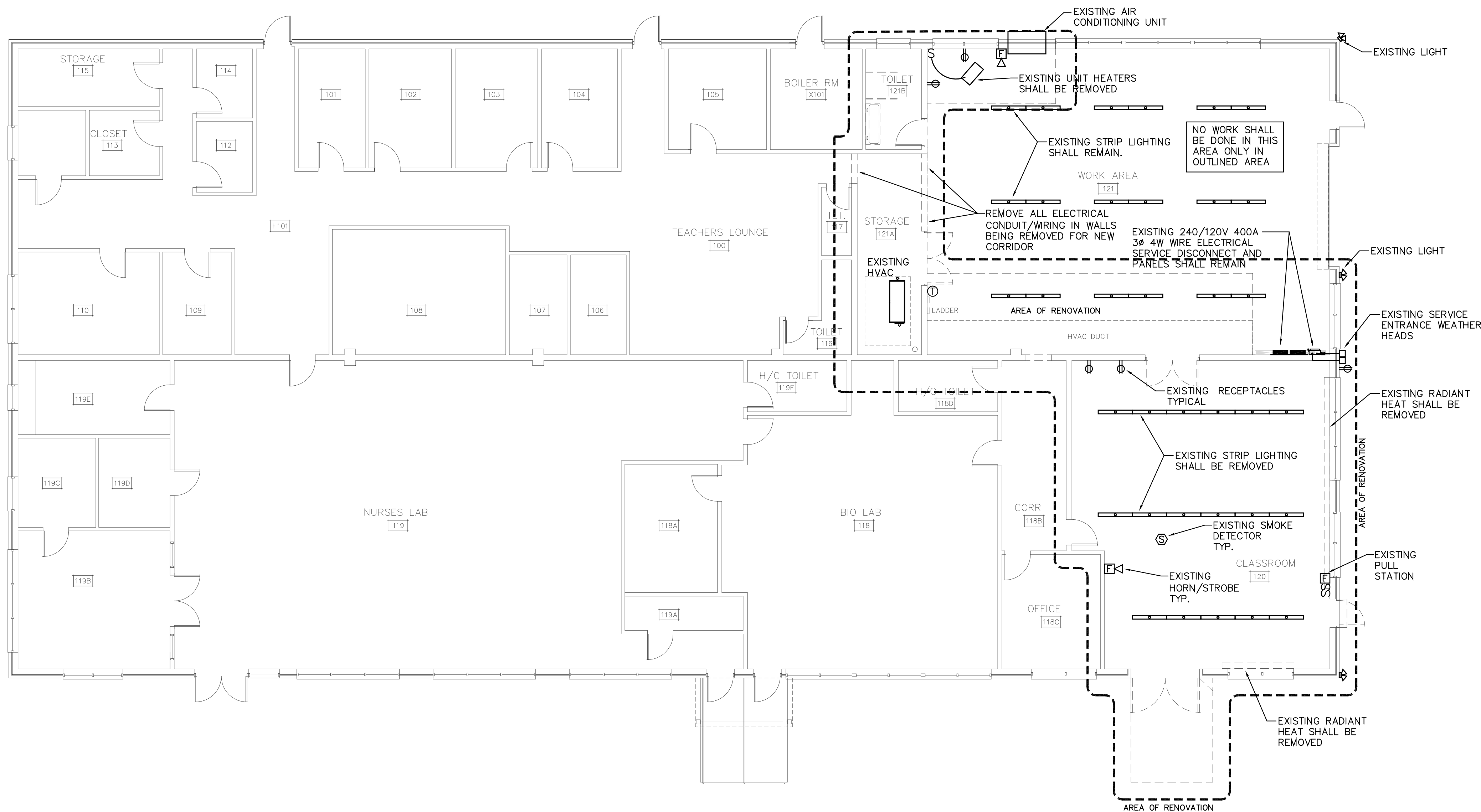
Project No.

ELECTRICAL
EXISTING/DEMO
PLAN

Scale: 1/8"=1'0"



Sheet **E-1** of 3



NOTE TO BIDDERS/CONTRACTOR:

THE ELECTRICAL DRAWINGS ARE A SCHEMATIC 2D REPRESENTATION OF A 3D SYSTEM. ALL FIELD CONDITIONS MAY NOT BE EVIDENT AT THE TIME OF ISSUANCE OF THIS DOCUMENT. SOME TURNS, ELEVATION CHANGES, WIRING DEVICES, FITTINGS ETC. WILL HAVE TO BE CHANGED OR MODIFIED IN THE FIELD TO MEET THE CONDITIONS PRESENT AT THE TIME OF CONSTRUCTION. COORDINATE WITH ALL TRADES AS WELL AS ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL VISIT SITE AND CONFIRM ALL EXISTING CONDITIONS.

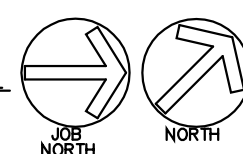
RENOVATION/ADDITION NOTE:

PREPARATION OF THESE CONSTRUCTION DRAWINGS IS BASED ON FIELD INVESTIGATIONS OF AS-BUILT CONDITIONS AS CONDUCTED BY THE ARCHITECT AND RAST DALLERY ENGINEERS, P.C. AS A RESULT, REASONABLE ASSUMPTIONS WERE MADE WITH RESPECT TO CONCEALED OR OTHERWISE INACCESSIBLE PORTIONS OF THE EXISTING CONSTRUCTION AND STRUCTURE. VARIOUS TYPES OF DEFECTS AND DAMAGE TO BE PERFORMED ARE CONCEPTUAL IN NATURE AND WILL BE SUBJECT TO ADJUSTMENTS IN THE FIELD. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING DIMENSIONS, SLOPES, CONNECTION TO EXISTING SERVICES AND OTHER UNITS OF MEASURE. IT IS CERTAIN TO THE EXECUTION OF THESE DRAWINGS AND IDEAS, INTERPRETATION AND INFORMATION TO THE ARCHITECT, AND OWNED FOR REVIEW AND ADJUSTMENTS.

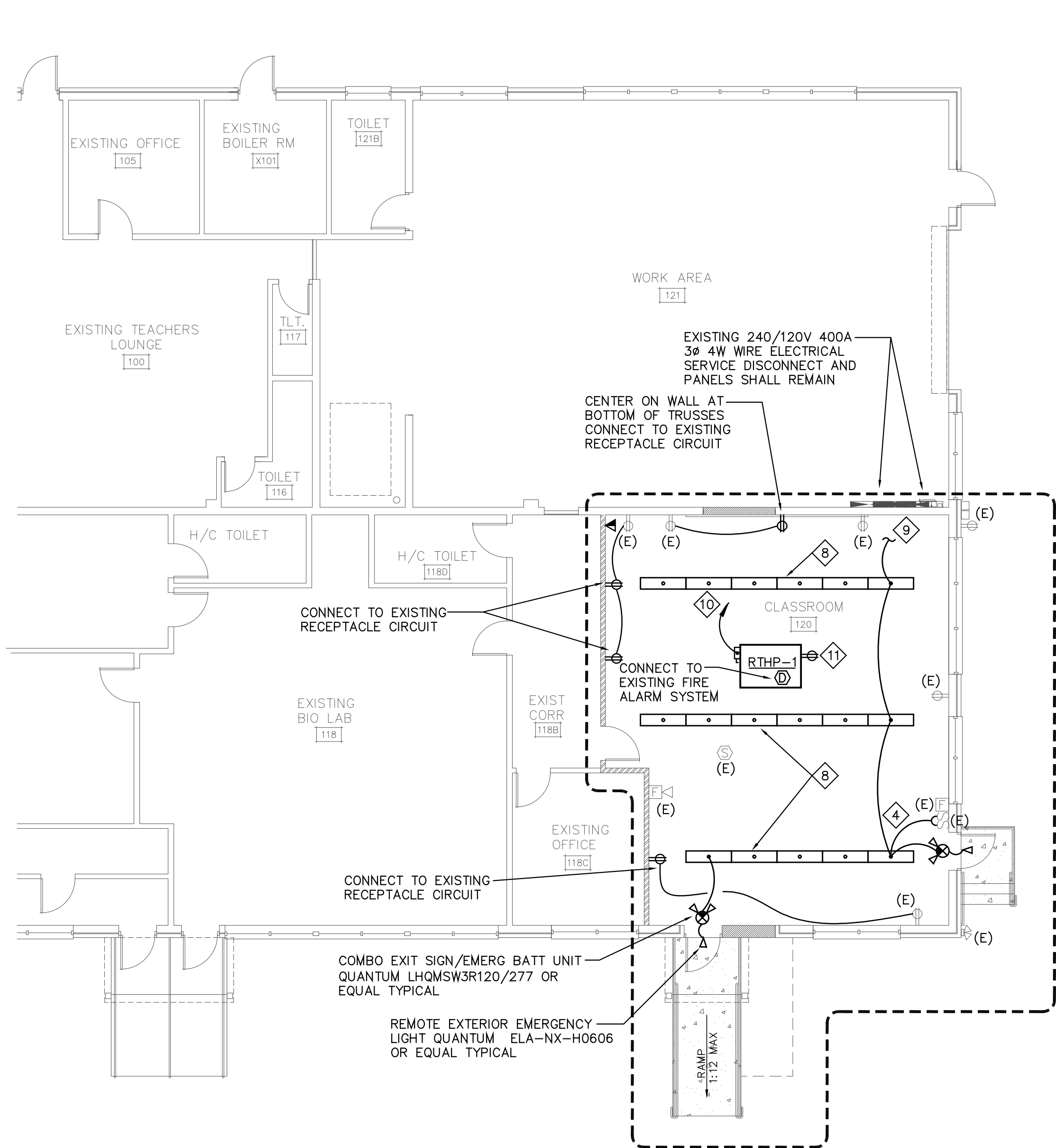
NOTES:

1. EXISTING FIRE ALARM SYSTEM, HORN/STOBES, PULL STATIONS COMPONENTS ETC. SHALL REMAIN AS-IS.

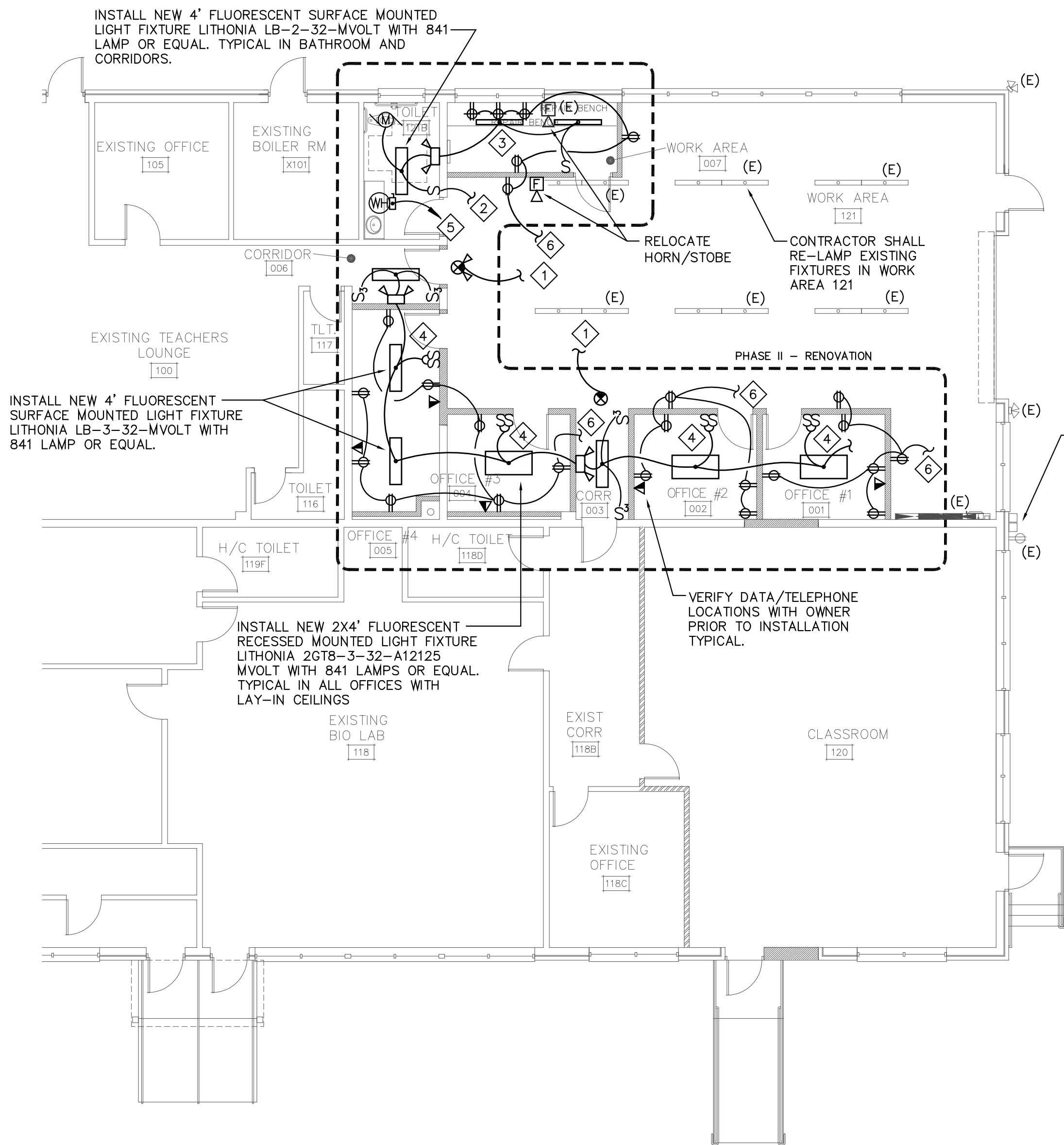
1 Existing/Demolition Elec. Plan
E1 Scale: 1/8" = 1'-0"



Rast Dallery Engineers, PC 2: \Projects_2012\12028 USC Walterboro Science Building\51.0200 Drawings - Engineering\12028 ELEC.dwg Aug 08, 2012 - 12:54pm



1
E2 Renovated Elec Plan - Phase I
Scale: 1/8" = 1'-0"



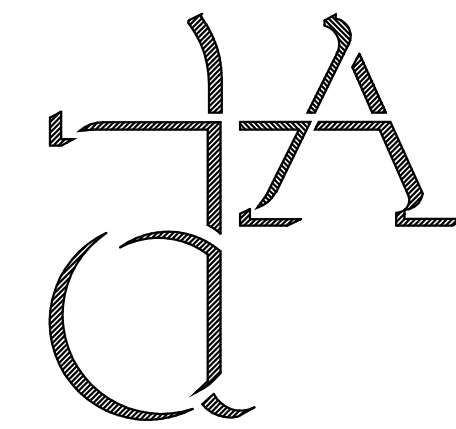
1
E2 Renovated Elac. Plan - Phase II
Scale: 1/8" = 1'-0"

NOTES (THIS SHEET):

1. PROVIDE ALL REQUIRED LABELS ON PANELS FOR HIGH-LEG IDENTIFICATION AS DESCRIBED IN NEC ARTICLE 408(F).

KEYED NOTES (THIS SHEET):

1. INSTALL NEW EXIT/EMERGENCY LIGHTS. CONNECT LIGHTS TO THE EXISTING UNSWITCHED LIGHTING CIRCUIT SERVING THE AREA.
2. RECONNECT TO EXISTING LIGHTING CIRCUIT SERVING BATHROOM.
3. LOCATE 4' FLUORESCENT LIGHT FIXTURE WITH WIRE GUARD OVER WORK BENCH COORDINATE MOUNTING HEIGHT WITH OWNER PRIOR TO INSTALLATION.
4. SWITCH INNER AND OUTER LAMPS ON SEPARATE SWITCHES
5. CONTRACTOR SHALL PROVIDE AND INSTALL A 20 AMP 1-POLE CIRCUIT BREAKER FOR NEW WATER HEATER FROM A SPARE SPACE IN THE EXISTING ELECTRICAL PANELS. ROUTE CONDUIT/CABLE WITH (2)#12, #12 GRD. DO NOT CONNECT 120V LOADS TO THE HIGH LEG OF THE 240/120V DELTA SYSTEM
6. CONTRACTOR SHALL PROVIDE AND INSTALL A 20 AMP 1-POLE CIRCUIT BREAKER FOR NEW RECEPTACLE CIRCUITS FROM A SPARE SPACE IN THE EXISTING ELECTRICAL PANELS. ROUTE CONDUIT/CABLE WITH (2)#12, #12 GRD. DO NOT CONNECT 120V LOADS TO THE HIGH LEG OF THE 240/120V DELTA SYSTEM
7. CONTRACTOR SHALL PROVIDE AND INSTALL A 20 AMP 1-POLE CIRCUIT BREAKER FOR NEW LIGHTING CIRCUIT FROM A SPARE SPACE IN THE EXISTING ELECTRICAL PANELS. ROUTE CONDUIT/CABLE WITH (2)#12, #12 GRD. DO NOT CONNECT 120V LOADS TO THE HIGH LEG OF THE 240/120V DELTA SYSTEM
8. CONTRACTOR SHALL PROVIDE AND INSTALL NEW 4' PENDENT LIGHT FIXTURES MATCHING THE ONES IN THE FACILITY. CONTRACTOR SHALL COORDINATE MOUNTING HEIGHT, LOCATIONS ETC. PRIOR TO INSTALLATION CONNECT TO EXISTING CIRCUIT.
9. RECONNECT NEW LIGHT FIXTURES TO THE EXISTING LIGHTING CIRCUIT SERVING THE AREA. CONNECT TO EXISTING SWITCHES.
10. CONTRACTOR SHALL PROVIDE AND INSTALL A 70 AMP 3-POLE CIRCUIT BREAKER FOR ROOF TOP UNIT RTHP-1 FROM A SPARE SPACE IN THE EXISTING ELECTRICAL PANELS. ROUTE CONDUIT/CABLE WITH 3-#4, #8 GRD.
11. CONNECT UNIT CONVIENCE OUTLET TO NEAREST EXISTING RECEPTACLE OUTLET CIRCUIT ON ROOF.



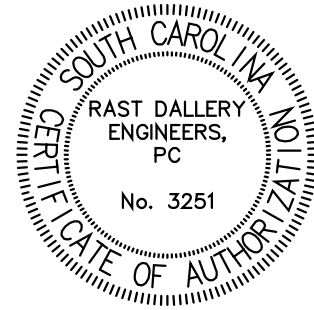
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JOB #12028

Date JUNE 6, 2012

Revisions



Proposed
Renovations for:



East Campus at Walterboro

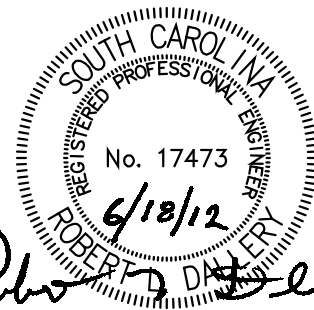
Science Bldg.

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Project No.

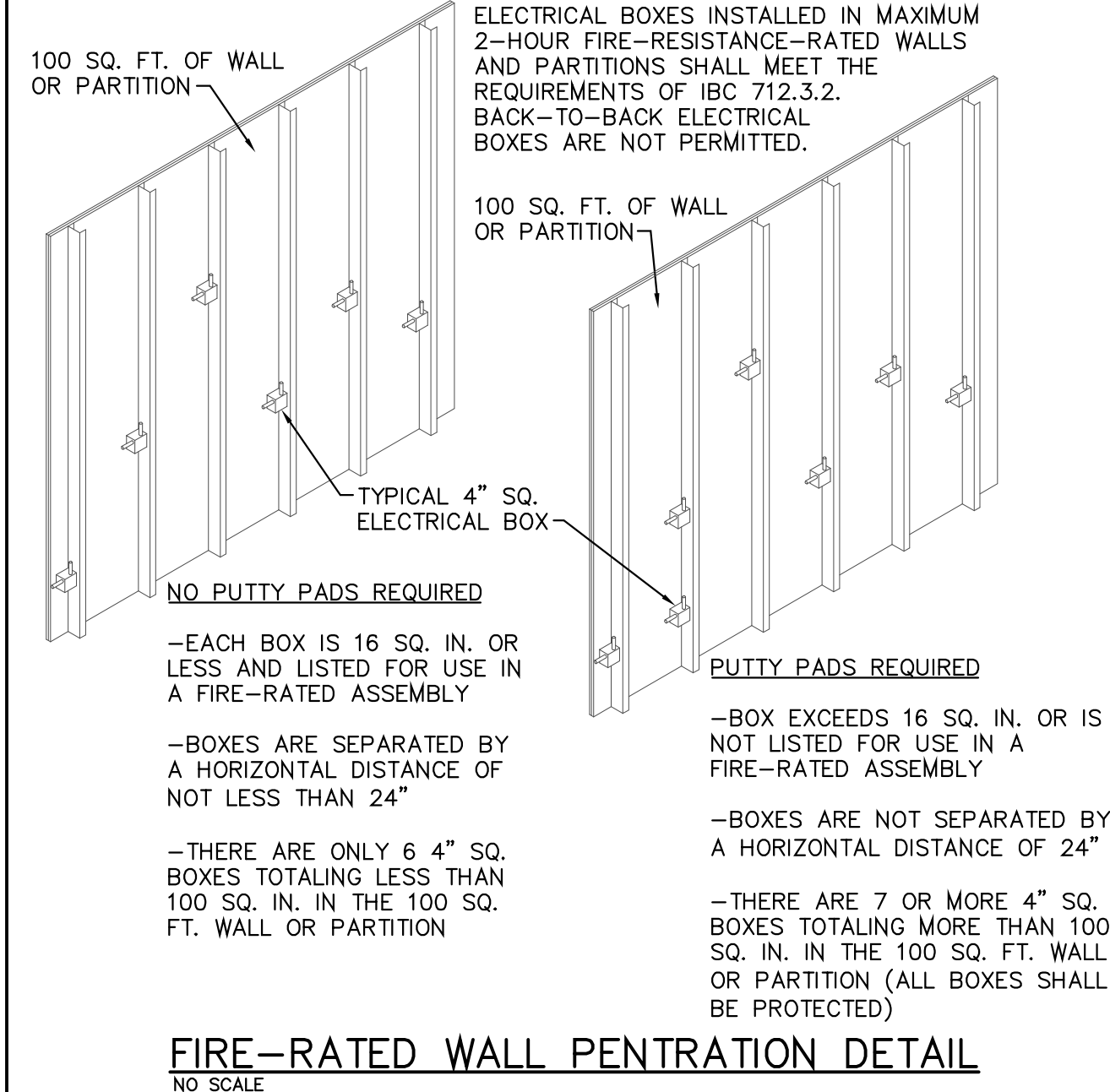
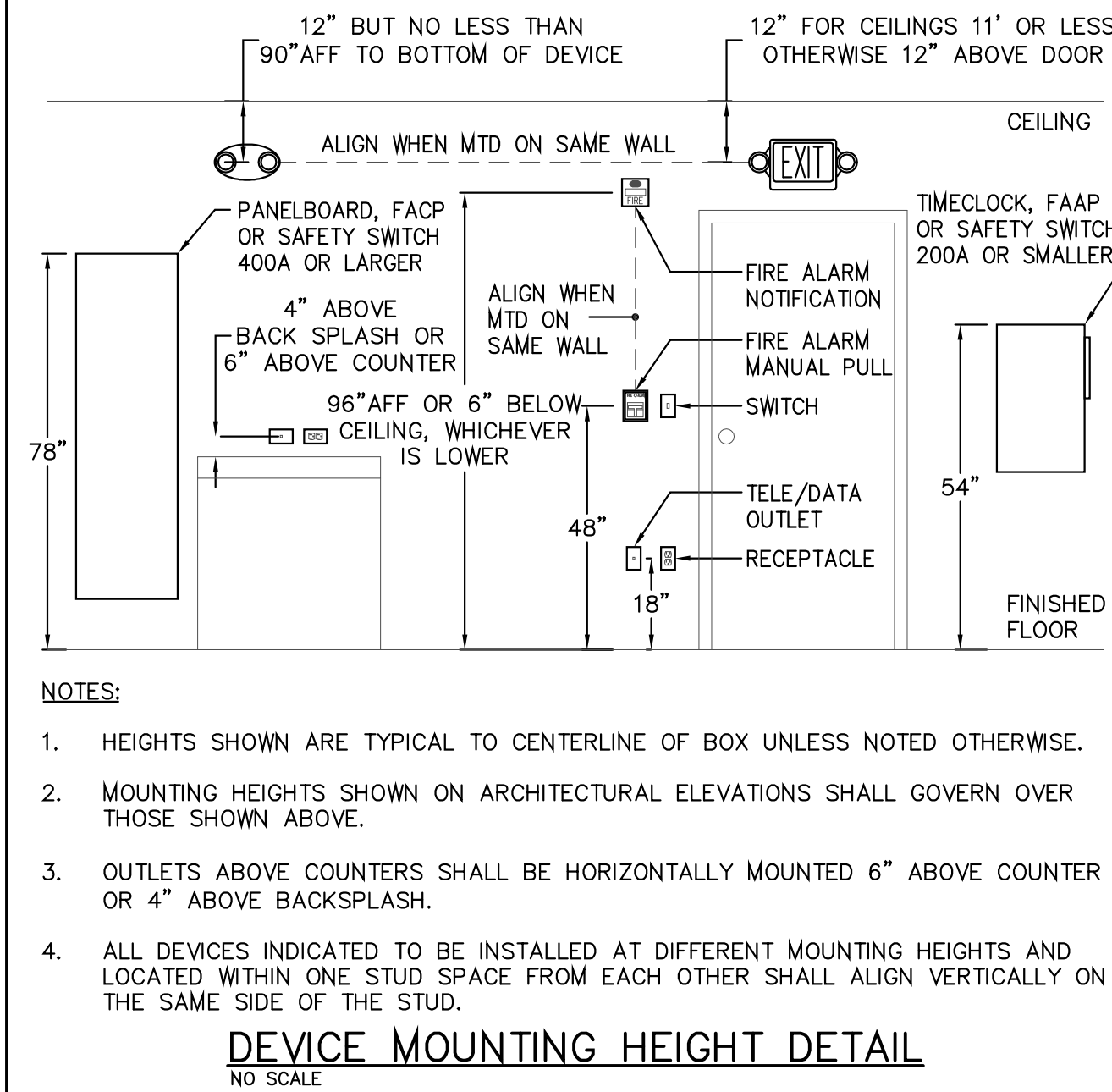
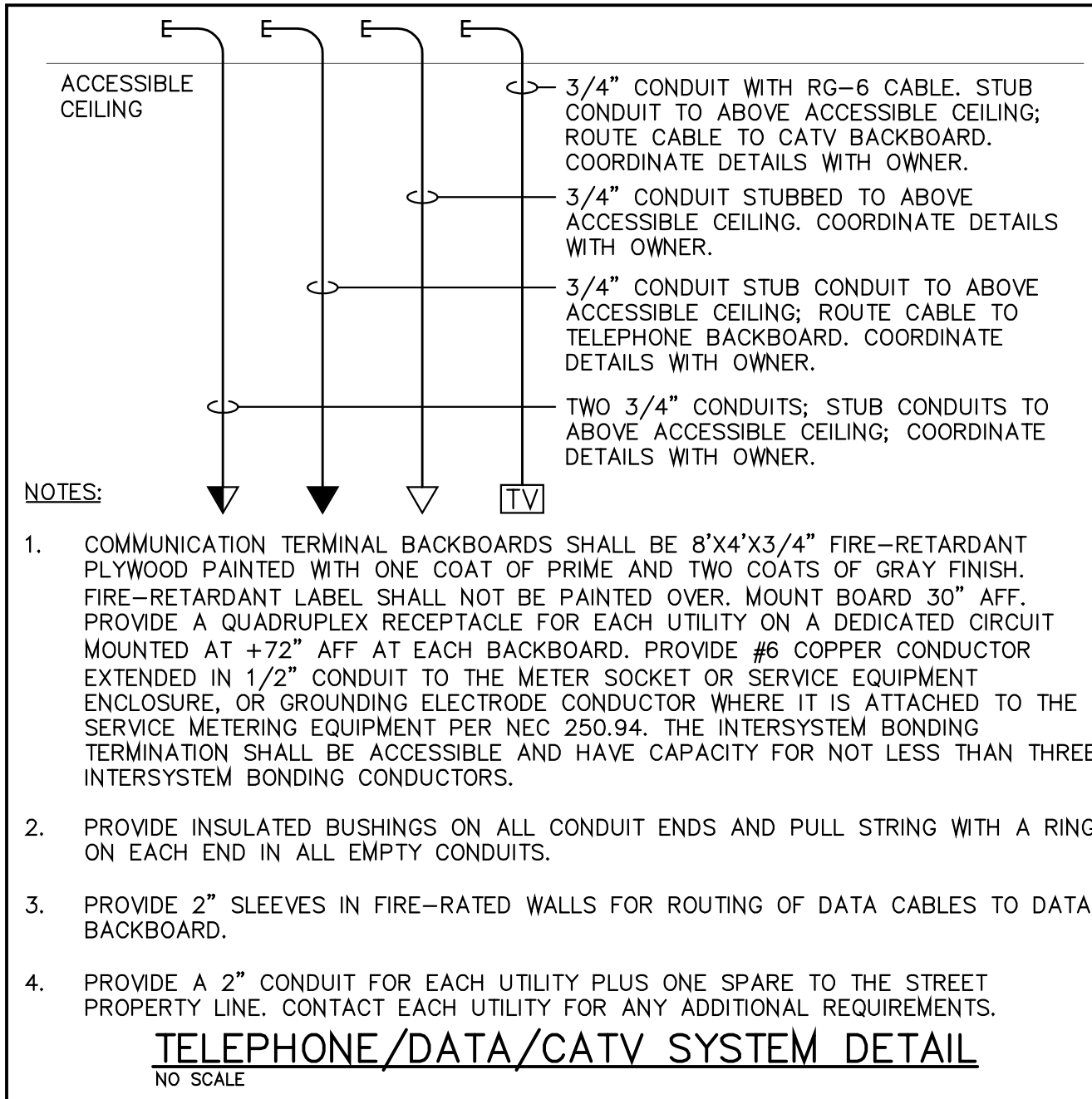
ELECTRICAL
PHASE I&II
PLAN

Scale: 1/8"=1'0"



File No. 12028 ELEC.dwg

Sheet **E-2** of 3



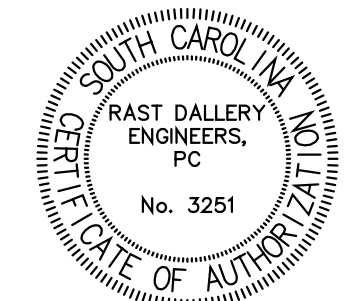
- ELECTRICAL MATERIALS & INSTALLATION:**
- FURNISH AND INSTALL ALL NECESSARY MATERIALS, TOOLS AND LABOR FOR A COMPLETE AND FULLY OPERABLE WIRING SYSTEM AS INDICATED OR REASONABLY IMPLIED. ALL OUTLETS SHALL BE FULLY CONNECTED TO SOURCES OF CURRENT SUPPLY AND LEFT READY FOR USE. UNLESS OTHERWISE INDICATED, ALL MATERIALS SHALL BE NEW, FREE OF DEFECTS AND BE UL LISTED AND LABELED FOR THEIR INTENDED PURPOSE AND SHALL BE ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.
 - ALL WORK SHALL BE IN ACCORDANCE WITH THE N.E.C., LOCAL CODES AND ORDINANCES AND THE REQUIREMENTS OF THE UTILITY COMPANY. LOCAL CODES SHALL GOVERN IN THE EVENT OF A CONFLICT.
 - CONTRACTOR SHALL APPLY FOR AND PAY FOR ALL REQUIRED PERMITS, INSPECTIONS, LICENSES, ETC. REQUIRED IN CONNECTION WITH THIS WORK.
 - ALL CONDUCTORS SHALL BE 75-DEGREE COPPER (THWN-THHN) INSTALLED IN METAL CONDUITS, RIGID OR EMT WITH COMPRESSION FITTINGS OR TYPES MC OR AC CABLES WHERE ALLOWED BY PREVAILING CODES, EXCEPT FOR PANEL HOMERUNS.
 - ALL PANEL HOMERUN CONDUCTORS SHALL BE INSTALLED IN METAL CONDUITS, RIGID, OR EMT WITH COMPRESSION FITTINGS. HOMERUNS SHALL BE THREE (3) CIRCUITS WHEREVER POSSIBLE, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
 - CONDUITS RUN UNDER FLOOR SLAB MAY BE SCHEDULE 40 PVC WITH RIGID METALLIC 90'S WHEN TURNED UP THROUGH SLAB.
 - UNLESS OTHERWISE INDICATED, ALL CONDUIT AND CONDUCTORS SHALL BE INSTALLED CONCEALED AND OUTLETS SHALL BE FLUSH MOUNTED IN WALLS OR CEILINGS. OUTLET BOXES SHALL BE SIZED AND INSTALLED PER THE N.E.C.
 - LUMINARIES SHALL BE COMPLETE WITH LAMPS, BALLASTS AND ALL NECESSARY MOUNTING HARDWARE AND ACCESSORIES.
 - PROVIDE A COPPER EQUIPMENT GROUNDING CONDUCTOR IN ALL BRANCH CIRCUIT AND FEEDER CONDUITS, SIZED PER N.E.C. TABLE 250.122. BOND ALL ELECTRICAL EQUIPMENT, OUTLET BOXES, GROUNDING TYPE RECEPTACLES, ETC., IN ACCORDANCE WITH N.E.C. ARTICLE 250.
 - CONTRACTOR SHALL PROVIDE ALL POWER WIRING AND CONNECTIONS TO MECHANICAL EQUIPMENT.
 - CONTRACTOR SHALL WARRANTY ALL NEW EQUIPMENT, MATERIALS AND LABOR FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE OR FIRST BENEFICIAL USE BY THE OWNER, WHICHEVER COMES FIRST.
 - CONTRACTOR SHALL VISIT THE SITE TO DETERMINE AND COORDINATE THE EXACT SCOPE OF WORK. NO CREDIT WILL BE GIVEN FOR WORK REQUIRED TO ACHIEVE THE END RESULT AS INDICATED BY THE CONTRACT DOCUMENTS.
 - CONTRACTOR SHALL BE RESPONSIBLE TO REQUEST CLARIFICATION OF ITEMS IN QUESTION ON THE ELECTRICAL DRAWINGS ASSOCIATED WITH THIS PROJECT PRIOR TO BID. NO CREDIT WILL BE GIVEN FOR ITEMS THAT ARE LOGICALLY REQUIRED, BUT NOT DETAILED.
 - DO NOT DIMENSION FROM THESE DRAWINGS. SEE ARCHITECTURAL DRAWINGS OR OWNER FOR EXACT LOCATIONS OF DEVICES AND LUMINARIES. DETAILS ON THESE DRAWINGS ARE FOR WIRING INFORMATION ONLY.
 - PANEL AND DISCONNECT SWITCH LOCATIONS ARE DIAGRAMMATIC AND SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS TO SUIT EQUIPMENT AND SPACE. DISCONNECT SWITCHES SHALL BE WITHIN SIGHT OF THE EQUIPMENT THEY SERVE AND MOUNTED AT 6'-3", MAXIMUM, TO TOP OF CABINET. MAINTAIN N.E.C. WORK SPACE REQUIREMENTS FROM WALLS, CEILINGS AND OTHER ELECTRICAL AND NON-ELECTRICAL EQUIPMENT APPURTENANCES, ETC.
 - COORDINATE LUMINARIES LOCATIONS WITH MECHANICAL PIPING, DUCTWORK, ETC. TO AVOID CONFLICTS.
 - CONTRACTOR SHALL PROVIDE FIRE CAULKING, OR OTHER APPROVED FIRESTOPPING METHOD, ON EACH SIDE OF ALL FIRE RATED PARTITIONS.
 - CONTRACTOR SHALL VERIFY HEATING VENTILATING AND AIR CONDITIONING (HVAC) POWER CONDUCTORS AND CIRCUIT BREAKER SIZING WITH THE HVAC CONTRACTOR PRIOR TO ROUGH-IN AND PLACING FINAL ORDER FOR ELECTRICAL SWITCHGEAR.
 - CONTRACTOR SHALL MEET INSTALLATION CRITERIA FOR SEISMIC REQUIREMENTS IN PROJECT LOCATION.

ELECTRICAL LEGEND (Not all symbols listed below are used on these drawings)					
SYMBOL		DESCRIPTION	SYMBOL		DESCRIPTION
POWER / GENERAL					
		FEEDER OR BRANCH CIRCUIT CONDUIT CONCEALED IN WALLS OR CEILING. DASHED LINETYPE DENOTES UNDER FLOOR SLAB OR BELOW GRADE. ARROW DENOTES HOME RUN TO PANEL.	LIGHTING		
		ELECTRIC EXHAUST FAN OR OTHER MOTOR-OPERATED MECHANICAL EQUIPMENT. CONNECT ELECTRICALLY COMPLETE.			
		COMBINATION ELECTRIC EXHAUST FAN AND LIGHT. CONNECT ELECTRICALLY COMPLETE.			
		MANUAL SWITCH, SINGLE POLE, AC SWITCH, 20A-125/277V. HORSEPOWER RATED FOR MOTOR LOADS.			
		ENCLOSED SAFETY SWITCH, GENERAL DUTY, NEMA 1 (NEMA 3R - OUTDOOR) ENCLOSURE, UON, IF INDICATED, PROVIDE FUSES SIZED PER NEC AND EQUIPMENT NAMEPLATE. FOR ELEVATORS, PROVIDE (1) NO & (1) NC DRY CONTACTS.			
		MOTOR STARTER, NEMA SIZE AND TYPE PER NEC AND EQUIPMENT NAMEPLATE.			
		PUSH BUTTON.			
		JUNCTION BOX, WALL OR CEILING MOUNTED, OR EQUIPMENT JUNCTION BOX, WITH COVER. MINIMUM SIZE: 4"x4"x1-1/2". SIZE PER NEC.			
		JUNCTION BOX, FLOOR MOUNTED, WITH COVERPLATE. MINIMUM SIZE: 4"x4"x1-1/2". SIZE PER NEC.			
		DUPLEX RECEPTACLE, GROUNDING TYPE, NEMA 5-20R. 'GFI' DENOTES INTEGRAL GROUND FAULT INTERRUPTER, 'WP' DENOTES WHILE-IN-USE WEATHERPROOF COVER.			
		DUPLEX RECEPTACLE, MOUNTED ABOVE COUNTER OR WALL HUNG LAVATORY.			
		DUPLEX RECEPTACLE, CEILING MOUNTED.			
		DOUBLE DUPLEX RECEPTACLE WITH QUADRUPLX PLATE.			
		DUPLEX RECEPTACLE, FLOOR MOUNTED. STEEL CITY 640 SERIES. P64-CP CARPET FLANGE AND P64-DS DEVICE COVERPLATE. GANG BOXES WITH COMMON FLANGE WHERE APPLICABLE.			
		DOUBLE DUPLEX RECEPTACLE, FLOOR MOUNTED.			
		MULTISERVICE FLOOR BOX. WIREMOLD RFB SERIES WITH BRASS FLANGED COVER WITH INSERT AREA FOR CARPET OR TILE CUTOUT AND DEVICE COVERPLATES. NUMBER DENOTES QUANTITY OF COMPARTMENTS.			
		DUPLEX RECEPTACLE, GFI TYPE, MOUNTED BEHIND ELECTRIC WATER COOLER ENCLOSURE. COORDINATE ROUGH-IN HEIGHT.			
		DUPLEX RECEPTACLE, SPLIT WIRED FOR TWO CIRCUIT OPERATION. SWITCHED RECEPTACLE ON TOP.			
		SPECIAL OUTLET, NEMA SIZE AS INDICATED ON DRAWING OR EQUIPMENT NAMEPLATE.			
		DRYER OUTLET, NEMA 6-30R, MOUNT AT +48" AFF TO CENTER OF BOX.			
		RANGE OUTLET, NEMA 6-50R, MOUNT AT +18" AFF TO CENTER OF BOX.			
		CEILING FAN, SEE FIXTURE SCHEDULE. CONNECT ELECTRICALLY COMPLETE.			
		ELECTRICAL PANELBOARD. SEE SCHEDULE AND RISER DIAGRAM.			
		SURGE PROTECTION DEVICE, CLASS C3, UL LISTED, 120,000A MIN. PER MODE. INCLUDE DISCONNECT AND OCP SIZE PER EQUIPMENT NAMEPLATE.			
TELEPHONE / DATA			FIRE ALARM		
		TERMINAL BACKBOARD. SIZE AS SHOWN ON DWGS. 'TTB' DENOTES TELEPHONE, 'DTB' DENOTES DATA, 'CTB' DENOTES CABLE TELEVISION. SEE DETAIL.			
		TELEPHONE OUTLET WITH COVERPLATE. CROSSHATCH DENOTES OUTLET MOUNTED ABOVE COUNTER. SEE DETAIL.			
		DATA OUTLET. CROSSHATCH DENOTES OUTLET MOUNTED ABOVE COUNTER. SEE DETAIL.			
		COMBINATION TELEPHONE/DATA OUTLET. CROSSHATCH DENOTES OUTLET MOUNTED ABOVE COUNTER. SEE DETAIL.			
		DATA OUTLET, CEILING MOUNTED.			
		TELEPHONE OUTLET, FLOOR MOUNTED. STEEL CITY 640 SERIES WITH P64-CP CARPET FLANGE AND P64-GFD DEVICE COVERPLATE. MIN. 1" KO'S.			
		TELEPHONE OUTLET FOR DATA, FLOOR MOUNTED.			
		TELEPHONE OUTLET FOR COMBINATION TELEPHONE/DATA, FLOOR MOUNTED.			
AUDIO / VISUAL EQUIPMENT					
		CABLE TELEVISION OUTLET WITH COVER PLATE, WALL MOUNT AT 18" AFF TO CENTER OF BOX UON. SEE DETAIL.			
		PUBLIC ADDRESS OR SOUND SYSTEM EQUIPMENT.			
		SPEAKER OUTLET, CEILING MOUNTED WITH BAFFLE, BACK BOX AND MOUNTING ACCESSORIES. PROVIDE 1/2"C. WITH SPEAKER CABLE TO SOUND EQUIPMENT.			
		MICROPHONE OUTLET JACK. 'F' DENOTES FLOOR MOUNTED.			
		INTERCOM OUTLET.			
		VOLUME CONTROL OUTLET.			
		CAMERA OUTLET. 'WP' DENOTES WEATHERPROOF JUNCTION BOX.			
		CARD READER. 'WP' DENOTES WEATHERPROOF JUNCTION BOX.			
		DOOR CONTACT.			
ABBREVIATIONS					
A	AMPERES	EM	EMERGENCY	MCB	MAIN CIRCUIT BREAKER
AC	ABOVE COUNTER	EP	EXPOSITION PROOF	(RL)	RELOCATED
AFF	ABOVE FINISHED FLOOR	EPO	EMERGENCY POWER OFF	MIN	MINIMUM
AFG	ABOVE FINISHED GRADE	EW	ELECTRIC WATER COOLER	MLO	MAIN LUGS ONLY
ATS	AUTOMATIC TRANSFER SWITCH	FA	FIRE ALARM	MTS	MANUAL TRANSFER SWITCH
BFG	BELOW FINISHED GRADE	G, GND	GROUND	NC	NORMALLY CLOSED
C	CONDUIT	GAP	GENERATOR ANNUNCIATOR PANEL	NIC	NOT IN CONTRACT
CATV	CABLE TELEVISION	GFI	GROUND FAULT INTERRUPTING	(N)	NEW
CB	CIRCUIT BREAKER	IG	ISOLATED GROUND	NO	NORMALLY OPEN
CCTV	CLOSED CIRCUIT TELEVISION	KO	KNOCK OUT	NTS	NOT TO SCALE
(E)	EXISTING	MAX	MAXIMUM	OC	ON CENTER
				PB	PULL BOX
					T, XFMR
					TRANSFORMER

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Date JUNE 6, 2012

Revisions



Proposed Renovations for:



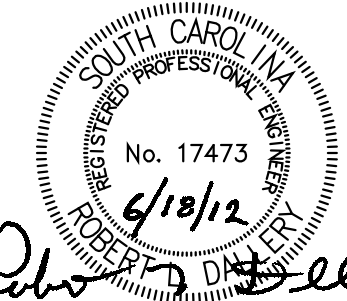
East Campus at Walterboro

Science Bldg.
807 Hampton Street
Walterboro, S.C.

Project No.

**ELECTRICAL
LEGEND, NOTES
AND DETAILS**

Scale: 1/8"=1'0"



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