Invitation to Bid

20150512 E.B. WILSON DOORS

Responses to an Invitation to Bid will be received by the Purchasing Supervisor, Sumner County Board of Education, 1500 Airport Road, Gallatin, TN 37066 for 20150512 E.B. WILSON DOORS until 9:00 a.m. CDT May 12, 2015. Bid responses will be opened at that time, taken under advisement and evaluated. Should you have any questions please contact Neil Miller – Carpentry Supervisor at neil.miller@sumnerschools.org. All proposals are subject to the Board of Education's conditions and specifications which are available from Vicky Currey, Purchasing Supervisor (615) 451-6560. All bids can be viewed on line at www.sumnerschools.org.

NOTICE TO RESPONDENTS

Responses to an Invitation to Bid will be received by the Purchasing Supervisor in the SUPPORT SERVICE FACILITY CONFERENCE ROOM, Sumner County Board of Education, 1500 Airport Road Gallatin, TN 37066. They will be received until 9:00 A.M. Local Time MAY 12, 2015 for 20150512 E.B. WILSON DOORS, at which time the responses will be opened, taken under advisement and evaluated. BIDS WILL BE POSTED ON www.sumnerschools.org

GENERAL REQUIREMENTS AND CONDITIONS

- 1. The Sumner County Board of Education reserves the right to accept or reject any and/or all responses in whole or in part, and to waive informalities therein.
- Any responses received after the scheduled closing time for the receipt for responses will not be considered.
- 3. If a mistake is discovered after the responses are received, only the Sumner County Board of Education may allow the respondent to withdraw the entire response.
- 4. Partial payments will not be approved unless justification for such payment can be shown. Terms will be net 30 days.
- 5. Payment will not be made until the said **20150512 E.B. WILSON DOORS** are inspected and approved as meeting all specifications by persons appointed by the Sumner County Board of Education.
- Responses submitted must be in a sealed envelope and marked on the outside as follows: RESPONSE: 20150512 E.B. WILSON DOORS DEADLINE: 9:00 A.M.; MAY 12, 2015
- 7. Facsimile responses will not be considered.
- 8. If a successful bidder violates any terms of their bid, the contract, school board policy or any law they may be disqualified from bidding for a period of two years for minor violations or longer for major violations. Bids from disqualified bidders will not be accepted during the period of disqualification.
- Prices quoted on the response (if any) are to be considered firm and binding until the said 20150512 E.B. WILSON DOORS are in the possession of the Sumner County Board of Education.
- 10. No purchase or contract is authorized or valid until the issuance of a Board Purchase Order in accordance with Board Policy. No Board Employee is authorized to purchase equipment, supplies or services prior to the issuance of such a Purchase Order.
- 11. Any deviation from these stated terms, specifications and conditions must be coordinated with and approved in writing by the Purchasing Supervisor, Vicky Currey (615) 451-6560.
- 12. All bids that exceed \$25,000 must have the Company Name, License Number, Expiration Date thereof and License Classification of Contractor listed on outside of sealed envelope. As required by State of Tennessee Code Annotated 62-6-119.
- 13. The awarded bidder will be required to post a performance and payment bond in the amount of 25% of the contract price if it exceeds \$100,000 as stated by State of Tennessee Code Annotated 12-4-201.
- 14. If the project cost in excess of \$25,000 a performance bond must be secured by the requesting party in an amount equal to the market improvement value.

20150512 E.B. WILSON DOORS

The Sumner County Board of Education, herein known as "School System", is soliciting bids to the purchase and installation of doors at the E.B. Wilson School. The bid will include materials and labor to complete the installation.

Jobsite: E.B. Wilson High School

695 East Main Street Gallatin, TN 37066

Contractor Obligations:

- Shall provide and obtain all necessary materials, equipment and labor.
- Shall provide and obtain all necessary permits with Local, County, etc. agencies as required by law.
- Shall schedule all necessary inspections with Local, County, etc. agencies as required by law.
- Shall strictly adhere to engineered drawings. The School System reserves the right to withhold
 partial or all payment until the work is completed to the specifications and satisfaction of the
 School System. Any work not completed to specifications will be the Contractor's sole
 responsibility and expense to redo.
- Shall provide Worker's Compensation Insurance as required by Tennessee State Law. The Contractor shall prove compliance with Public Chapter No. 587, T.C.A. 49-5-413(d), criminal background check, and provide a Drug Free Workplace Affidavit.
- Shall dispose of all generated waste materials in compliance with all Local, State and Federal guidelines, regulations, and requirements.
- Shall have properly trained and experienced staff to facilitate the specified services.

Scope of Work

The School System is updating E.B. Wilson High School to meet new requirements per the Fire Marshall code. The attached, stamped blueprint reflects the removal of existing windows to be replace with exterior doors to meet the new code. All specifications listed on the stamped blueprints are to be strictly followed. The vendor, at its' sole expense, will be responsible for any deviation from the stamped drawings. The School System shall not provide copies of the blueprints. It is the sole responsibility of the vendor to print the stamped blueprints.

A mandatory pre-bid meeting will be held, at the jobsite, on May 5, 2015 @ 10:00 a.m. The School System will have a single set of plans available at the jobsite for review. The vendor must come prepared to take any and all necessary field measurements. The vendor must provide their own equipment for measurements.

SUMNER COUNTY BOARD OF EDUCATION

Purchasing Department 1500 Airport Road Gallatin, TN 37066

COMPANY NAME		
ADDRESS		
TELEPHONE		
EMAIL	,	
AUTHORIZED COMPANY REPRESENTATIVE		SIGNATURE
AUTHORIZED COMPANY REPRESENTATIVE		PRINTED
DATE		
BID TITLE	20150512 E.B. WILSON DOORS	
DEADLINE	MAY 12, 2015 @ 9:00 A.M.	
BID AMOUNT	\$	
BID GOOD THRU		
NOTES:		

*I*1:18058 2015-02-19-02



STATE OF TENNESSEE
DEPARTMENT OF COMMERCE AND INSURANCE
STATE FIRE MARSHAL'S OFFICE
CODES ENFORCEMENT SECTION
500 James Robertson Parkway
Tenth Floor, Davy Crockett Tower
Nashville, Tennessee 37243-1162
PHONE: 615-741-7190 FAX: 615-253-3267

April 7, 2015

James Bailey Johnson + Bailey, P.C. 100 E. Vine Street, Suite 700 Murfreesboro, Tennessee 37130

RE: Approval of Plans TFM #18058 Project #2015-025-19-02 E.B. Wilson Building 685 E. Main Street Gallatin, Tennessee 37066

Sumner County

THESE PLANS AND SPECIFICATIONS
ARE REQUIRED TO BE KEPT ON THE
JOB SITE UNTIL A FINAL CERTIFICATE
OF OCCUPANCY OR PROJECT
COMPLETION FORM IS ISSUED BY
THIS OFFICE.

No alterations, deletions, additions or modifications of any kind are allowed to this approved set without written permission of this office.

TENNESSEE STATE FIRE MARSHAL'S OFFICE

Dear James Bailey:

The plans, specifications and/or addenda received by our office for the above referenced project have been reviewed for compliance with the minimum standards for fire prevention, fire protection, and building construction safety (Rule 0780-02-02-.01) as required by the 2006 International Building Code (excluding Chapters 11 and 27), 2006 International Mechanical Code, 2006 International Fire Code, the 2006 NFPA 101 Life Safety Code [Rule 0780-2-2-.01], 2008 NFPA 70 National Electrical Code [Rule 0780-02-01-.02], and the following standards for the enforcement of the Tennessee Public Building Accessibility Act -2010 ADA Standards for Accessible Design. Plans approval does not certify compliance with either the State or Federal Statute referenced above.

Plans are approved with the following Stipulation(s), Note(s), and Field Verification(s), if applicable. Please note that stipulations must be satisfied by contractual documents prior to a Certificate of Occupancy being issued by the Codes Enforcement Officer.

This approval does not relieve the designing architect or engineer, contractor, or owner of responsibility for correcting plans or construction found in noncompliance with applicable codes. [Rule 0780-2-3.05(5), statutory authority TCA 68-120-204(a)(1)].

We are sending you an approved set of plans which, under Rule 0780-2-3.05(4), are required to be kept at the job site. The approved plans shall be placed on the job site prior to the

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commencement of construction and shall be retained on the job site until a certificate of occupancy has been issued by the Division per Rule 0780-02-03-05. If these plans are not on the job site, a stop work order may result.

All field Change Orders must be submitted to this office for review and approval.

Requests for inspection should be directed to the Codes Enforcement Section at 615-741-7190. A Certificate of Occupancy (CO) is required prior to occupancy of this project. [Rule 0780-02-03-10(1), statutory authority TCA 68-120-102].

If you ha

hange of Use

E. B. Wilson Building

Business to Educational

umner County Board of Educ

Del R. Philips III, Ph.D. - Director of Schools

Andy Danlels, Chalrman Beth Cox, VIce-Chalrman Allce Bachman Tlm Brewer Davld A. Brown Patricla H. Brown

Jeff Cordell Dr. Nancy Glover Glen Gregory Tammy Hayes Ted Wlse

Johnson + Bailey Architects P.C.

Consultants: Entech Englneering, Inc.

Archltectural

H.V.A.C.

- MD.1 H.V.A.C. DEMO FLOOR PLAN
 M1.1 H.V.A.C. FLOOR PLAN
 M2.1 H.V.A.C. DETAILS & SPECIFICATIONS

Electrical

Edward Carr

Edward Carr

2015.04.07

15:09:34

-05'00'

- EXISTING/NEW FIRE ALARM FLOOR PLAN
- ELECTRICAL PANELBOARDS AND RISER DIAGRAM ELECTRICAL FIXTURE SCHEDULE/NOTES/LEGEND



100 East Vine St.

Change of Use **Business to Educational**

E.B.WILSON BUILDING

Sumner County Board of Education

FIRE STOPPING REQUIREMENT

employed on the job site may not



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2015-02-19-02 TFM:18058

TFM:18058 <u>2</u>015-02-19-02

APPLICABLE CODES (TENNESSEE FIRE MARSHAL'S OFFICE):

- 2006 EDITION - 2006 EDITION - 2006 EDITION - 2006 EDITION - 2008 EDITION N.F.P.A. 70 NATIONAL ELECTRICAL CODE N.F.P.A. 101 LIFE SAFETY CODE 2006 EDITION TENNESSEE PUBLIC BUILDING ACCESSIBILITY ACT, 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

STATE OF TENNESSEE, DEPARTMENT OF INSURANCE, DIVISION OF FIRE PREVENTION, TENNESSEE CHAPTER 0780-02-02 - JUNE 2010 REV.

APPLICABLE CODES (CITY OF GALLATIN):

INTERNATIONAL BUILDING CODE (I.B.C.) INTERNATIONAL FUEL GAS CODE INTERNATIONAL MECHANICAL CODE INTERNATIONAL PLUMBING CODE - 2009 EDITION - 2009 EDITION INTERNATIONAL PROPERTY MAINTENANCE CODE INTERNATIONAL FIRE CODE - 2009 EDITION - 2009 EDITION INTERNATIONAL ENERGY CONSERVATION CODE - 2008 EDITION

2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

BUILDING AREA:

FIRST FLOOR 10,798 SQ. FT. TOTAL GROSS AREA 10,798 SQ. FT.

TYPE OF CONSTRUCTION: I.B.C., TYPE V-B, UNPROTECTED, UNSPRINKLERED

NFPA TYPE III - 200

16,625 S.F.

1 STORY

8 DEG.F

OCCUPANCY CLASSIFICATION: I.B.C. = EDUCATIONAL (GROUP E)

NFPA = NEW EDUCATIONAL

MAXIMUM ALLOWABLE HEIGHT 55' 1 STORY PER I.B.C. TABLE 503 EDUCATIONAL OCCUPANCY

MAXIMUM ALLOWABLE AREA 9,500 S.F. PER I.B.C. TABLE 503 EDUCATIONAL OCCUPANCY

MAXIMUM ALLOWABLE AREA WITH AREA INCREASE PER I.B.C. SECTION 506.2, EQUATION 5-2

NUMBER OF STORIES

HEIGHT OF BUILDING 28'-0"

STRUCTURAL DESIGN LOADS: EXISTING STRUCTURE

SUMMER DESIGN TEMP.

PER I.B.C. TABLE GO1, TYPE V-B, UNPROTECTED, UNSPRINKLERED ARE AS FOLLOWS:

FIRE PROTECTION REQUIREMENTS:

RATING STRUCTURAL ELEMENTS: U.L. DESIGN NO. N/A EXTERIOR CMU BEARING WALLS N/A INTERIOR CMU BEARING WALLS N/A N/A INTERIOR CMU NON-BEARING WALLS

WINTER DESIGN TEMP.

*RATED CMU WALLS:

BASED ON MINIMUM EQUIVALENT THICKNESS(INCHES) PER I.B.C.
TABLE 721.3.2 "MINIMUM EQUIVALENT THICKNESS OF
BEARING OR NON-BEARING CONCRETE MASONRY WALLS"

CEILING ASSEMBLY ABOVE 1-HOUR RATED CMU WALLS AT STORAGE ROOM 108, WORK ROOMS 111 AND 117, AND JANITOR CLOSET 101, SHALL BE (2) LAYERS OF 5%", TYPE 'X' GYPSUM BOARD ATTACHED TO UNDERSIDE OF EXISTING WOOD TRUSS (OR 1 LAYER OF TYPE "C" ON

MAXIMUM TRAVEL DISTANCE PER N.F.P.A. 101 SECTION 14.2.6: 200 FET BETWEEN ANY POINT IN A ROOM AND AN EXIT

MAXIMUM DEAD END CORRIDOR DISTANCE PER I.B.C. 1017.3: 20 FT. MAXIMUM

MAXIMUM CORRIDOR WIDTH PER I.B.C. 1017.2(4) & N.F.P.A. 101 SECTION 14.2.3.2 NEW EDUCATIONAL: 6'-0" MINIMUM

NOTE: MOST STRINGENT CODE REQUIREMENTS ARE INDICATED

MATERIAL SYMBOLS SECTION INDICATIONS ELEVATION INDICATIONS EXTERIOR EXTERIOR INSULATION & FINISH SYSTEM EARTH INSULATION CRUSHED METAL STANDING STONE ROUGH (GRAVEL LOUVER FINISH ACOUSTICAL CEILING INSULATING GLASS BLOCK CONCRETE GLASS (LARGE SCALE) CEMENT SCR⊞N GROUT MESH GLASS STEL PLYWOOD (SMALL SCALE) INTERIOR PLYWOOD WALLBOARD (LARGE CERAMIC TILE CERAMIC INSULATION TILE GLASS

WALL LEGEND & NOTES: EXISTING C.M.U 1-HOUR FIRE WALL EXISTING CONCRETE MASONRY UNIT WALL EXISTING C.M.U./BRICK VENER EXTERIOR WALL

ARCHITECTURAL SYMBOLS LEGEND

WINDOW

- ELEVATION NUMBER

DETAIL

- SHEET NUMBER

SECTION

ARCHITECTURAL ABBREVIATIONS

AM.

0.A.I. 0.C. 0.D.

QΤ Q.Τ. R. R.а.н. ANGLE LAMINATE LAVATORY

MITTROR MANUFACTURTER MATERIAL

MARKERBOARD MILES PER HOUR MASONRY OPENING METAL

OUTS THE ATR INTAKE

ON CENTER OUTS DE DIAMETER

POUNDS PER SQUARE INCH

ROBE HOOK
ROUGH OFFNING

SOLARE FEET (OR STORE FRONT)

VINYL COMPOSITION TILE VERTICAL

VINYL BASE VENT TO ROOF

WITH WAL BOARD WAL BOARD WAL GUARD

AFR TOWE DISPUSER & DISPOSER

NUMBER

NATIONAL FIRE PROTECTION ASSOCIATION NOT IN CONTRACT

ACOUSTICAL THE CELLING

CENTER INE CONCRETE MASONRY UNIT CONCRETE MASONRY UNIT CONCRETE CONTINUOUS CARRETE CURTA IN ROD

COURSE CONCRETE - SEALED CERAMIC THE OR CURTAIN TRACK CERAMIC THE CHANNEL

AFRONECY HYLENE PROPYLENE DIENE MONOMER

TRIC WATER COOLER

THE EXTINGUISHER BRACKET
THE EXTINGUISHER CABINET
LATE EAD WOOD SCREW

HANDICAPPED EX HEAD MACHINE SCREW OLLOW METAL ORIZONTAL

HANDRALL
HEATING, VENTILATION, AIR CONDITIONING
INCHES
INSULATION OR INSULATING

THE THEATED

ACOUS.
ADJ.
A.F.F.
AGGR.
ALUM.
ANCHR.
APPROX.
ASSOC.

F.E.B. F.E.C. H.W.S.

HI CLG

G.I. GYP. GW G.W.

C .H.M.S .M. ORZ.

R. V.A.C.

ELEVATION

DOOR NUMBER

TFM:18058 <u>2</u>015-02-19-02___



City Center 100 East Vine St. Murtreesboro Tennessee 37|30 6T5 · 890 · 4560 Fax: 615 · 890 · 4564

Change of Use Business to Educational

E.B.WILSON BUILDING

Sumner County Board of Education

> DATE REVISION C NOTES: 0

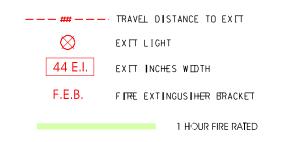


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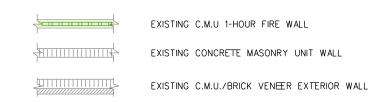
C.A.L.

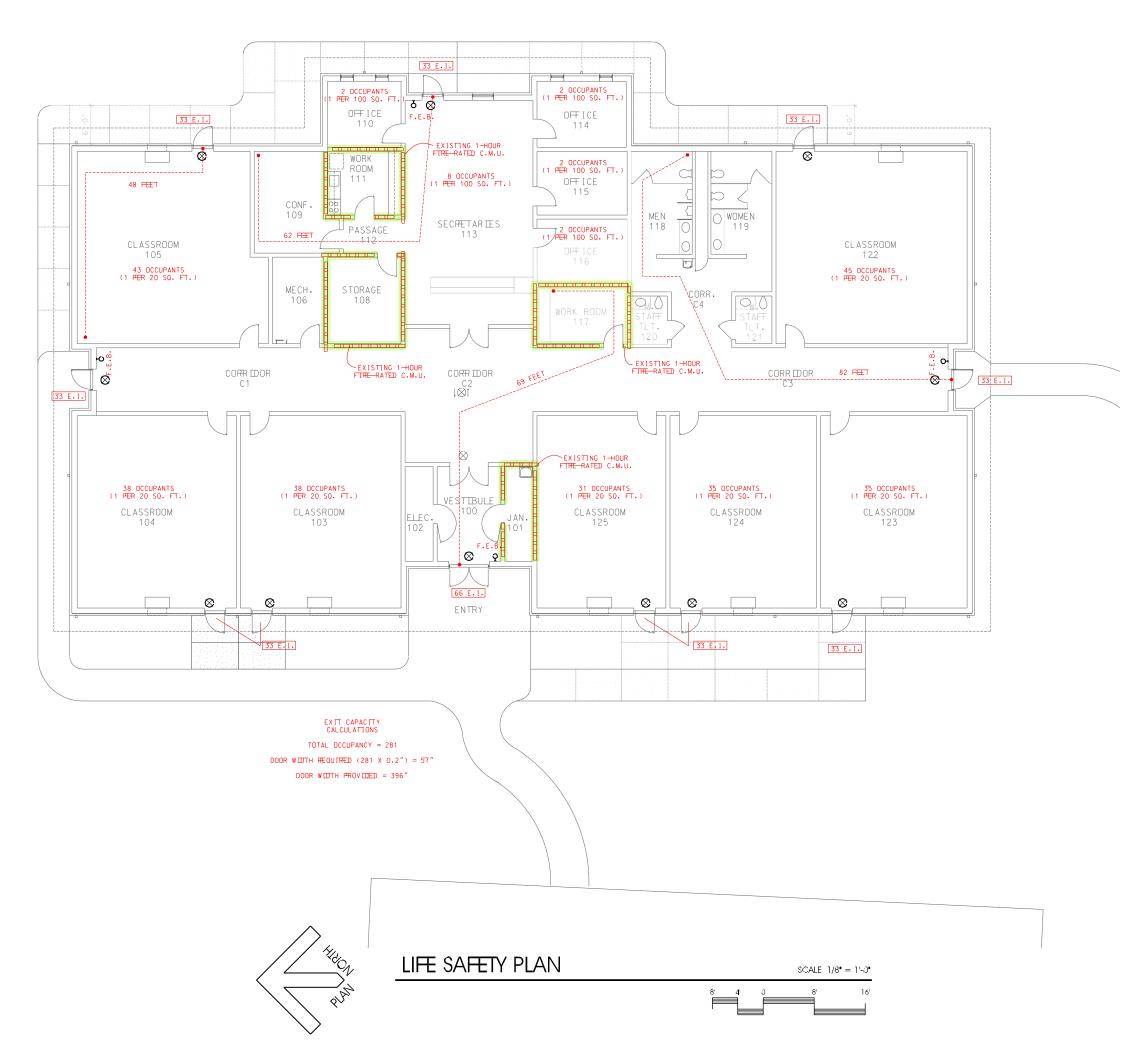
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WALL LEGEND & NOTES:







City Center IOO East Vine St. Martireesboro Tennessee 37130 615 · 890 · 4560 Fax: 615 · 890 · 4564

Change of Use Business to Educational

E.B.WILSON BUILDING

Sumner County Board of Education

REVISION DATE Site

NOTES:

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PROJECT NO. DATE DRAWN BY CHECKED BY

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TFM:18058 2015-02-19-02

City Center

100 East Vine St. Murireesboro Tennessee 37130 6T5 · 890 · 4560 Fax: 615 · 890 · 4564

Change of Use Business to Educational

E.B.WILSON BUILDING

Sumner County Board of Education

REVISION DATE

NOTES:

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PROJECT NO. DRAWN BY CHECKED BY

A2.1

GENERAL NOTES

- REPAIR EXISTING FLOORS, BASE, AND WALLS WHERE MECHANICAL AND ELECTRICAL ITEMS ARE REMOVED OR ADDED TO MATCH EXISTING
- 2. REPAIR EXISTING SURFACES DAMAGED DURING INSTALLATION OF NEW CONSTRUCTION TO MATCH ADJACENT EXISTING CONSTRUCTION.
- 3. REFER TO M/P/E DRAWINGS FOR REMOVAL AND DISPOSAL OF EXISTING M/P/E ITEMS AND INSTALLATION OF NEW ITEMS.

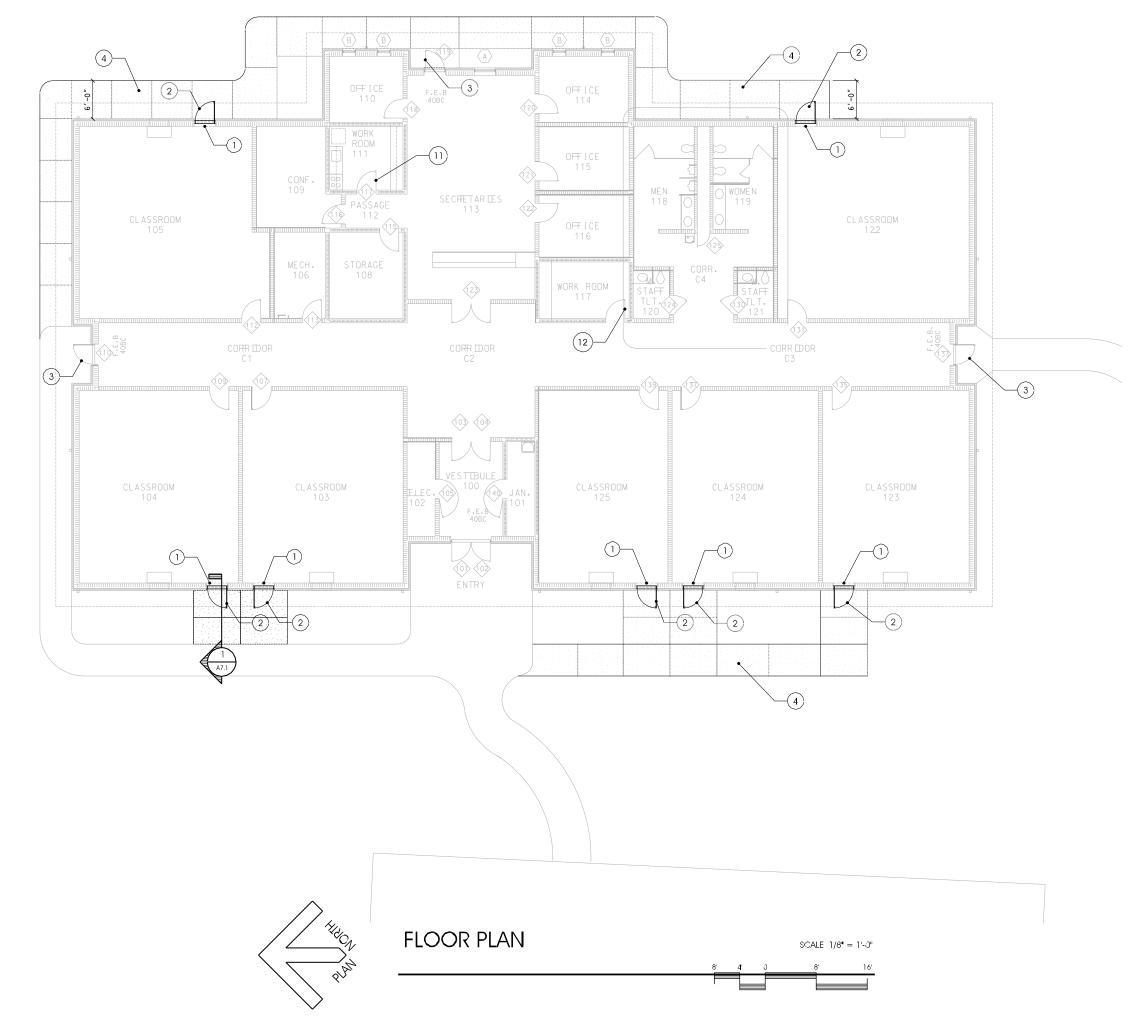
DEMOLITION/RENOVATION NOTES

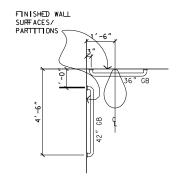
- 1 REMOVE AND DISPOSE OF EXISTING HOLLOW METAL WINDOW. INCLUDING ALL BRICK/CMU BELOW WINDOW TO ALLOW FOR INSTALLATION OF NEW DOOR. REMOVE AND DISPOSE OF PORTION OF C.M.U. AS REQUIRED FOR INSTALLATION OF NEW CONC. SIDEWALK.
- (2) INSTALL NEW 3'-0" X 7'-2" DK. BRONZE ANOD. ALUMINUM STOREFRONT ENTRANCE DOOR IN ALUMINUM STOREFRONT ENTRANCE FRAMING. DOOR SHALL BE WIDE STYLE WITH VERTICAL AND TOP RAILS OF 5" AND BOTTOM RAIL OF 10" WITH 5/8" INSULATED GLAZING IN TRIFAB 451 FRAMING SYSTEM AS MANUFACTURED BY KAWNEER. HARDWARE IS TO BE PROVIDED BY STOREFRONT MANUFACTURER AS FOLLOWS: 1 - CONTINUOUS HINGE
 - 1 LATCH PADDLE DEVICE
 - 1 CLOSER
 - 1 SET WEATHERSTRIPPING 1 - 1 THRESHOLD
- 3 REMOVE AND RETURN TO OWNER EXISTING LEVER HARDWARE TO DOORS 110, 119, AND 133. REPLACE WITH NEW HARDWARE BY VON DUPRIN (U.N.O.) AT EACH DOOR AS FOLLOWS:

 - 1 RIM EXIT DEVICE 99L-996L R&V 626 1 GLASS BEAD KIT 99GBK-R SP28
 - 1 RIM CYLINDER AS REQUIRED TO MATCH EXISTING KEY SYSTEM 1 STRIKE FILLER PLATE FS-260-PC (DON JO)
 - 1 COVER PLATE KIT 997 SP28
- (4) INSTALL NEW CONCRETE SIDEWALK TO MATCH EXISTING IN WIDTH AND RADIUS DIMENSIONS, UNLESS NOTED OTHERWISE.
- RELOCATE/RECONFIGURE EXISTING TOILET PARTITIONS AS REQUIRED TO MAINTAIN 18" FROM CENTER OF WATER CLOSET TO PARTITION.
- 6 PROVIDE AND INSTALL 36" GRAB BAR TO WALL AT BACK OF WATER CLOSET
- AT 36" ABOVE FINISHED FLOOR TO TOP OF GRIPPING SURFACE AT LOCATION RELIGIATE PABER PARSHALL BE ROBERS AS REQUIRE BOON SOFTE FINASH. MOUNTING HEIGHT DOES NOT EXCEED 48".
- (8) RELOCATE MIRRORS SO THAT BOTTOM OF REFLECTIVE SURFACE DOES NOT EXCEED 40" ABOVE FINISH FLOOR.
- 9 ROUT BOTTOM OF EXISTING APRON AT VANITY TO PROVIDE 2'-3" CLEAR
- (10) PROVIDE AND INSTALL PIPING INSULATION PRO-WRAP BY TRUEBRO AT ALL SINKS IN MEN AND WOMEN'S TOILETS.
- (1) REMOVE AND DISPOSE OF EXISTING DOOR, FRAME, AND HARDWARE. REPLACE
 - WITH NEW 45-MINUTE FIRE-RATED DOOR, FRAME, AND HARDWARE AS FOLLOWS: 3 EA. HINGES BB1279 4 1/2 X 4 1/2 626 BY HAGER
 - AU 5408LN 626 BY YALE 1 EA. CLOSER
 - 1461 REG/PA AL BY LCN 190S 10X2" LESS DOOR WIDTH BY HAGER 1 EA. KICKPLATE
 - AS REQUIRED BY HAGER 307D GREY BY HAGER 1 EA. STOP 3 EA. SILENCERS
- (12) REMOVE AND DISPOSE OF EXISTING DOOR AND HARDWARE. REPLACE WITH NEW 45-MINUTE FIRE-RATED DOOR AND HARDWARE AS FOLLOWS:
 - 3 EA. HINGES 1 EA. LOCKSET BB1279 4 1/2 X 4 1/2 626 BY HAGER
 - AU 5408LN 626 BY YALE 1461 REG/PA AL BY LCN
 - 190S 10X2" LESS DOOR WIDTH BY HAGER 1 EA. KICKPLATE
 - AS REQUIRED BY HAGER 3 EA. SILENCERS 307D GREY BY HAGER

WALL LEGEND & NOTES:

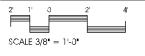
EXISTING C.M.U 1-HOUR FIRE WALL EXISTING CONCRETE MASONRY UNIT WALL EXISTING C.M.U./BRICK VENER EXTERIOR WALL

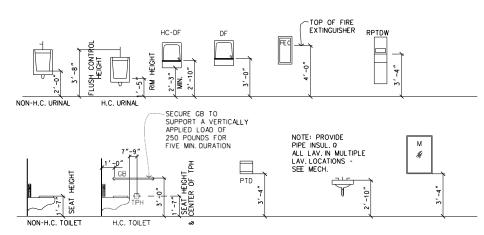




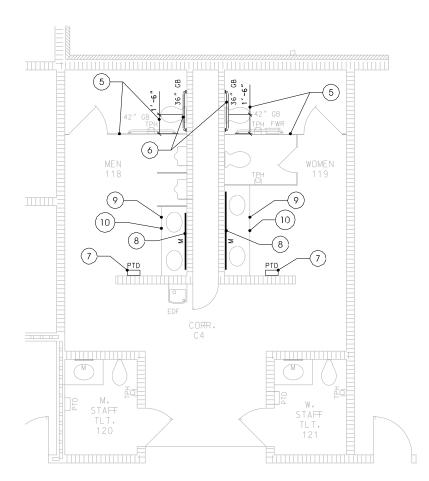


PLAN HC GRAB BARS

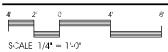




TYPICAL MOUNTING HEIGHTS -TOILET FIXTURES & DIV. 10 ACCESSORIES



LARGE SCALE FLOOR PLAN



TFM:18058 2015-02-19-02

GENERAL NOTES

- REPAIR EXISTING FLOORS, BASE, AND WALLS WHERE MECHANICAL AND ELECTRICAL ITEMS ARE REMOVED OR ADDED TO MATCH EXISTING CONSTRUCTION.
- REPAIR EXISTING SURFACES DAMAGED DURING INSTALLATION OF NEW CONSTRUCTION TO MATCH ADJACENT EXISTING CONSTRUCTION.
- REFER TO M/P/E DRAWINGS FOR REMOVAL AND DISPOSAL OF EXISTING M/P/E ITEMS AND INSTALLATION OF NEW ITEMS.

DEMOLITION/RENOVATION NOTES

- (1) REMOVE AND DISPOSE OF EXISTING HOLLOW METAL WINDOW, INCLUDING ALL BRICK/CMU BELOW WINDOW TO ALLOW FOR INSTALLATION OF NEW DOOR. REMOVE AND DISPOSE OF PORTION OF C.M.U. AS REQUIRED FOR INSTALLATION OF NEW CONC. SIDEWALK.
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 AND BOTTOM RAIL OF 10" WITH 5/8" INSULATED GLAZING IN TRIFAB 451
 FRAMING SYSTEM AS MANUFACTURED BY KAWNEER. HARDWARE IS TO BE PROVIDED BY STOREFRONT MANUFACTURER AS FOLLOWS: 1 - CONTINUOUS HINGE
 - 1 LATCH PADDLE DEVICE
 - 1 CLOSER
 - 1 SET WEATHERSTRIPPING 1 1 THRESHOLD
- REMOVE AND RETURN TO OWNER EXISTING LEVER HARDWARE TO DOORS 110, 119, AND 133. REPLACE WITH NEW HARDWARE BY VON DUPRIN
 - (U.N.O.) AT EACH DOOR AS FOLLOWS: 1 RIM EXIT DEVICE 99L-996L R&V 626

 - 1 GLASS BEAD KIT 99GBK-R SP28 1 RIM CYLINDER AS REQUIRED TO MATCH EXISTING KEY SYSTEM
 - 1 STRIKE FILLER PLATE FS-260-PC (DON JO)
 - 1 COVER PLATE KIT 997 SP28
- (4) INSTALL NEW CONCRETE SIDEWALK TO MATCH EXISTING IN WIDTH
- RELOCATE/RECONFIGURE EXISTING TOILET PARTITIONS AS REQUIRED TO MAINTAIN 18" FROM CENTER OF WATER CLOSET TO PARTITION.
- PROVIDE AND INSTALL 36" GRAB BAR TO WALL AT BACK OF WATER CLOSET AT 36" ABOVE FINISHED FLOOR TO TOP OF GRIPPING SURFACE AT LOCATION INDICATED. GRAB BAR SHALL BE BOBRICK MODEL # B6806, SATIN FINISH.
- RELOCATE PAPER TOWEL DISPENSERS AS REQUIRED TO INSURE THAT MOUNTING HEIGHT DOES NOT EXCEED 48".
- RELOCATE MIRRORS SO THAT BOTTOM OF REFLECTIVE SURFACE DOES NOT EXCEED 40" ABOVE FINISH FLOOR.
- ROUT BOTTOM OF EXISTING APRON AT VANITY TO PROVIDE 2'-3" CLEAR KNEE SPACE BELOW.
- PROVIDE AND INSTALL PIPING INSULATION PRO-WRAP BY TRUEBRO AT ALL
- SINKS IN MEN AND WOMEN'S TOILETS.
- REMOVE AND DISPOSE OF EXISTING DOOR, FRAME, AND HARDWARE. REPLACE WITH NEW 45-MINUTE FIRE-RATED DOOR, FRAME, AND HARDWARE AS FOLLOWS:
 - BB1279 4 1/2 X 4 1/2 626 BY HAGER AU 5408LN 626 BY YALE 3 EA. HINGES 1 EA. LOCKSET
 - 1461 REG/PA AL BY LCN 190S 10X2" LESS DOOR WIDTH BY HAGER 1 EA. CLOSER
 - 1 EA. KICKPLATE
 - 1 EA. STOP 3 EA. SILENCERS AS REQUIRED BY HAGER 307D GREY BY HAGER
- REMOVE AND DISPOSE OF EXISTING DOOR AND HARDWARE. REPLACE WITH
 - NEW 45-MINUTE FIRE-RATED DOOR AND HARDWARE AS FOLLOWS: BB1279 4 1/2 X 4 1/2 626 BY HAGER AU 5408LN 626 BY YALE 3 EA. HINGES
 - 1 EA. LOCKSET
 - 1 EA. CLOSER 1 EA. KICKPLATE 1461 REG/PA AL BY LCN 190S 10X2" LESS DOOR WIDTH BY HAGER
 - 1 EA. STOP 3 EA. SILENCERS AS REQUIRED BY HAGER 307D GREY BY HAGER



City Center 100 East Vine St. Murireesboro Tennessee 37130

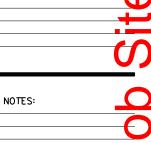
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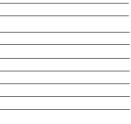
Change of Use Business to Educational

E.B.WILSON BUILDING

Sumner County Board of Education

REVISION DATE





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Change of Use Business to Educational

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C.A.L. J.H.B.

REFLECTED CEILING PLAN

TFM:18058 2015-02-19-02

RCP DEMOLITION NOTES

REMOVE AND DISPOSE OF EXISTING LAY-IN CEILING GRID AND PANELS.
INSTALL 2 LAYERS OF 5/8" TYPE "X" GYPSUM WALLBOARD TO THE UNDERSIDE OF THE WOOD TRUSSES (OR RESILIENT CHANNELS AND 1 LAYER OF
5/8" TYPE "C" GYPSUM WALLBOARD). INSTALL INSULATED FIRE-RATED
CEILING ACCESS PANEL MODEL IT SERIES 22X30 BY NYSTROM AT EXISTING
LADDER. REFER TO MPE DRAWINGS FOR REMOVAL OF MECHANICAL/

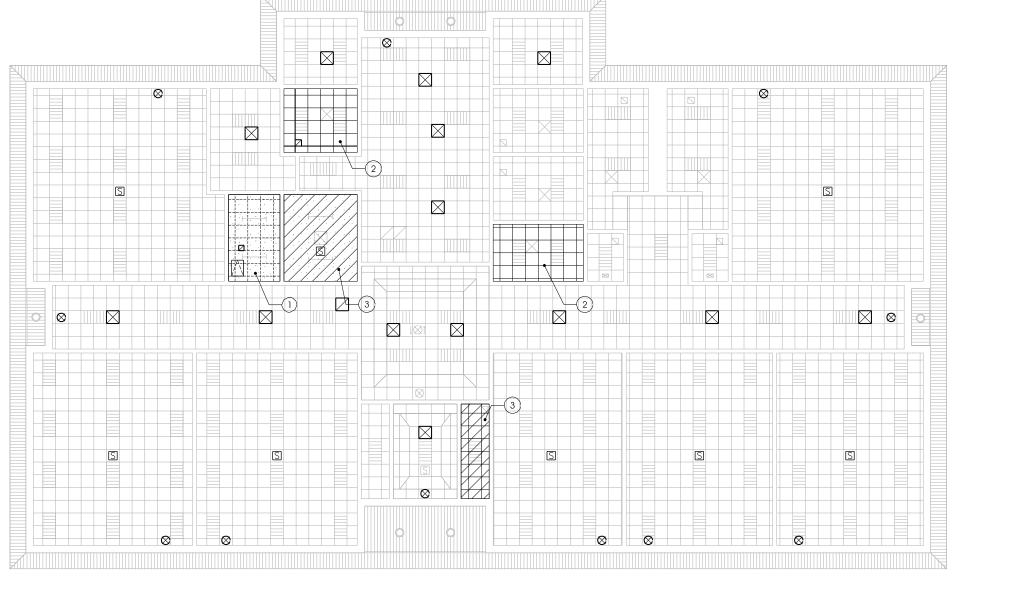
REMOVE AND DISPOSE OF EXISTING LAY-IN CEILING GRID AND PANELS.
INSTALL 2 LAYERS OF 5/8" TYPE "X" GYPSUM WALLBOARD TO THE UNDERSIDE OF THE WOOD TRUSSES (OR RESILIENT CHANNELS AND 1 LAYER OF

③ VERIFY THAT EXISTING GYPSUM WALLBOARD AT UNDERSIDE OF WOOD

5/8" TYPE "C" GYPSUM WALLBOARD). INSTALL NEW LAY-IN CEILING GRID AND PANELS.

TRUSSES CONSISTS OF 2 LAYERS OF 5/8" TYPE "X" GYPSUM WALLBOARD. IF NOT, ADD LAYER(S) AS INDICATED TO MEET FIRE RATING REQUIREMENTS

(2 LAYERS 5/8" TYPE "X" OR 1 LAYER 5/8" TYPE "C" ON RESILIENT CHANNELS). REMOVE AND DISPOSE OF EXISTING CEILING GRID AND PANELS AT LOCATION INDICATED AND REPLACE WITH NEW GRID AND PANELS.



REFLECT	ED CEILING PLAN LEGEND
\boxtimes	NEW SUPPLY AIR DIFFUSER
	NEW RETURN AIR GRILLE/EXHAUST
	EXISTING SUPPLY AIR DIFFUSER
	EXISTING RETURN AIR GRILLE/EXHAUST
S	NEW SMOKE DETECTOR
S	EXISTING SMOKE DETECTOR
	EXISTING LIGHT FIXTURES
\otimes	NEW CEILING MOUNTED EXIT LIGHT
\otimes	EXISTING CEILING MOUNTED EXIT LIGHT
	EXISTING 2 X 2 CEILING GRID AND PANELS
	NEW EXPOSED GYPSUM BOARD CEILING (EXISTING ACOUSTICAL LAY-IN REMOVED)
	EXISTING GYPSUM BOARD CEILING - ONE HOUR FIRE RATED, (2) LAYERS OF 5%" TYPE 'X' GYPSUM BOARD ATTACHED TO UNDERSIDE OF WOOD TRUSS (FIELD VERIFY)

TFM:18058 2015-02-19-02

TFM:18058 2015-02-19-02 Johnson +
Balley
Architects INSTALL NEW
ALUMINUM STORE
FRONT DOOR IN
EXISTING OPENING REMOVE EXISTING
HOLLOW METAL FRAMED
WINDOW NEW BRICK AT JAMBS TO MATCH EXISTING BRICK TO REMAIN City Center IOO East Vine St Martreesboro Tennessee 37130 615 · 890 · 4560 Fax: 615 · 890 · 4564 Change of Use Business to Educational E.B.WILSON EXISTING WINDOW/NEW DOOR ELEVATION 3 BUILDING A7.1 Sumner County Board of Education REVISION DATE Site Job NEW 3'-0" X 7'-2"
ALUMINUM STORE—
FRONT DOOR IN
ALUMINUM STORE—
FRONT FRAME NEW C.M.U. BULL NOSE JAMB BLOCK TOOTHED INTO EXISTING WALL A.D.A. WATER DAM THRESHOLD SET IN FULL BED SEALANT THIS DRAWING SHALL NOT BE REPRODUCED, PUBLISHED, OR USED IN ANY WAY WITHOUT THE WRITTEN PERMISSION OF THE ARCHITECT. 1/2" EXP. MATERIAL AT THIS LOCATION AND EXISTING WALL-REPAIR/REPLACE BASE AS REQUIRED BY INSTALL-ATION OF NEW DOOR. NEW CONC. WALK W/6 X 6 1.4 X 1.4 W.W.M. - SLOPE 1/4"/FOOT TO DRAIN REPAIR/REPLACE VCT AS REQUIRED BY INSTALLATION OF NEW DOOR NEW CRUSHED STONE NEW VAPOR BARRER PROJECT NO. DATE 02/18/15 DRAWN BY C.A.L. CHECKED BY J.H.B. WALL SECTION - RENOVATION A7.1 A7.1 SCALE 1" = 1'-0"

FEWORK/INSTALL
BRICK AT THESE
LOCATIONS TO
MATCH BRICK
PATTERN
AROUND WINDOW

SCALE 1/2" = 1'-0"

REMOVE CULTURED

- FEMOVE EXISTING FESILLENT BASE

2

A7.1

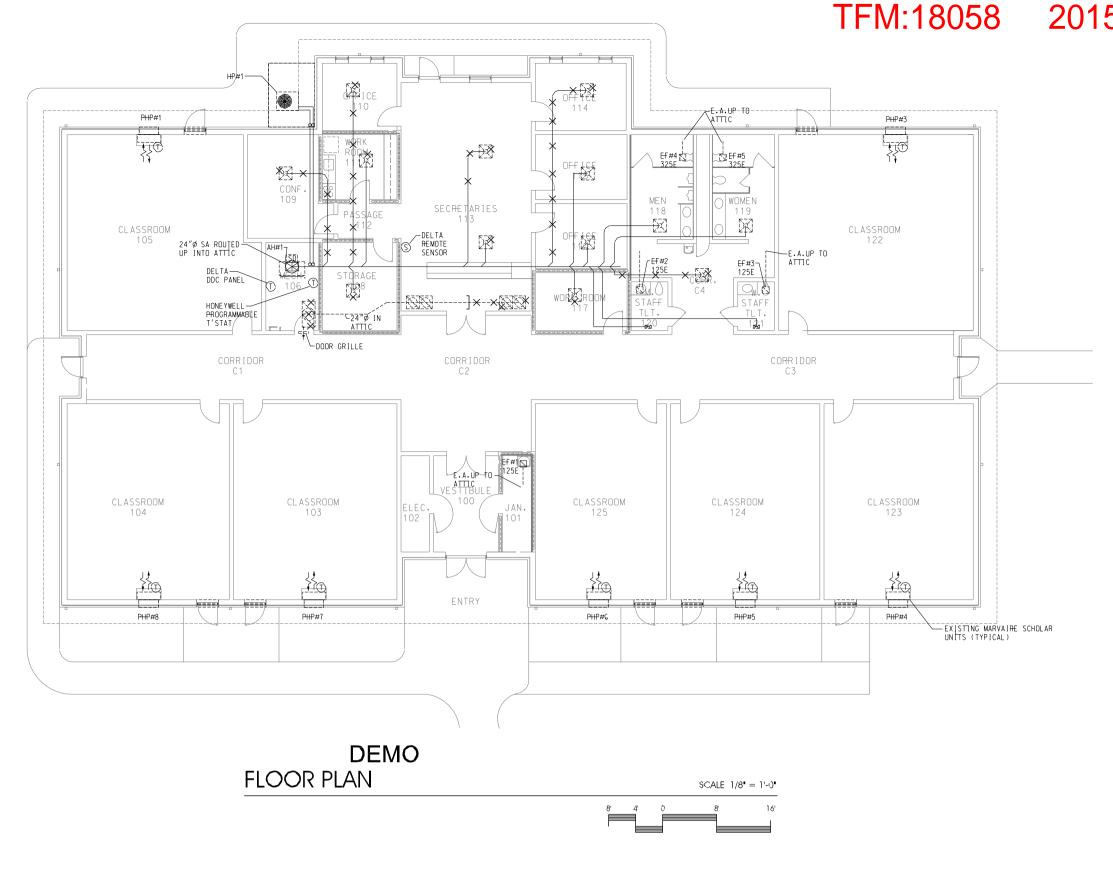
REMOVE EXISTING BRICK ROWLOCK SILL

FREMOVE EXISTING BRICK BELOW WINDOW

SCALE 1" = 1'-0"

WALL SECTION - DEMOLITION

GENERAL MECHANICAL LEGEND DESCRIPTION SUPPLY DUCTWORK RETURN DUCTWORK EXHAUST DUCTWORK OUTSIDE AIR DUCTWORK FIRE DAMPER COMBINATION FIRE & SMOKE DAMPER SUPPLY AIR DIFFUSER RETURN OR EXHAUST AIR REGISTER DAMPER ELECTRIC HEATER EXHAUST FAN UNDERCUT DOOR 3/4" MANUAL VOLUME DAMPER (M.V.D.) MOTORIZED VOLUME DAMPER SMOKE DETECTOR 8"O NECK SUPPLY AIR DIFFUSER @ 200 C.F.M. 8"X8" RETURN AIR REGISTER @ 150 C.F.M. 6"X6" EXHAUST AIR REGISTER @ 100 C.F.M. SPACE THERMOSTAT MOUNTING HEIGHT PER ADA (48" AFF) CONNECT TO EXISTING AT APPROX. THIS LOCATION SUPPLY DUCT THRU SLAB OR ROOF - SEE PLANS RETURN OR EXHAUST DUCT THRU SLAB OR ROOF - SEE PLANS



EXISTING C.M.U 1-HOUR FIRE WALL

EXISTING CONCRETE MASONRY UNIT WALL

E.B.WILSON



	PROJECT NO.	
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WALL LEGEND & NOTES.

H.V.A.C.

EXISTING EQUIPMENT TO REMAIN

EXISTING EQUIPMENT - RELOCATED SPACE HUMIDISTAT

MOTION DETECTOR & DIRECT. OF SENSOR (MTG. HT.PER MANF.) X X X X EXISTING DUCTWORK OR PIPING TO BE REMOVED

2015-0<u>2-19-02</u>

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ENTECH ENGINEERING INC.

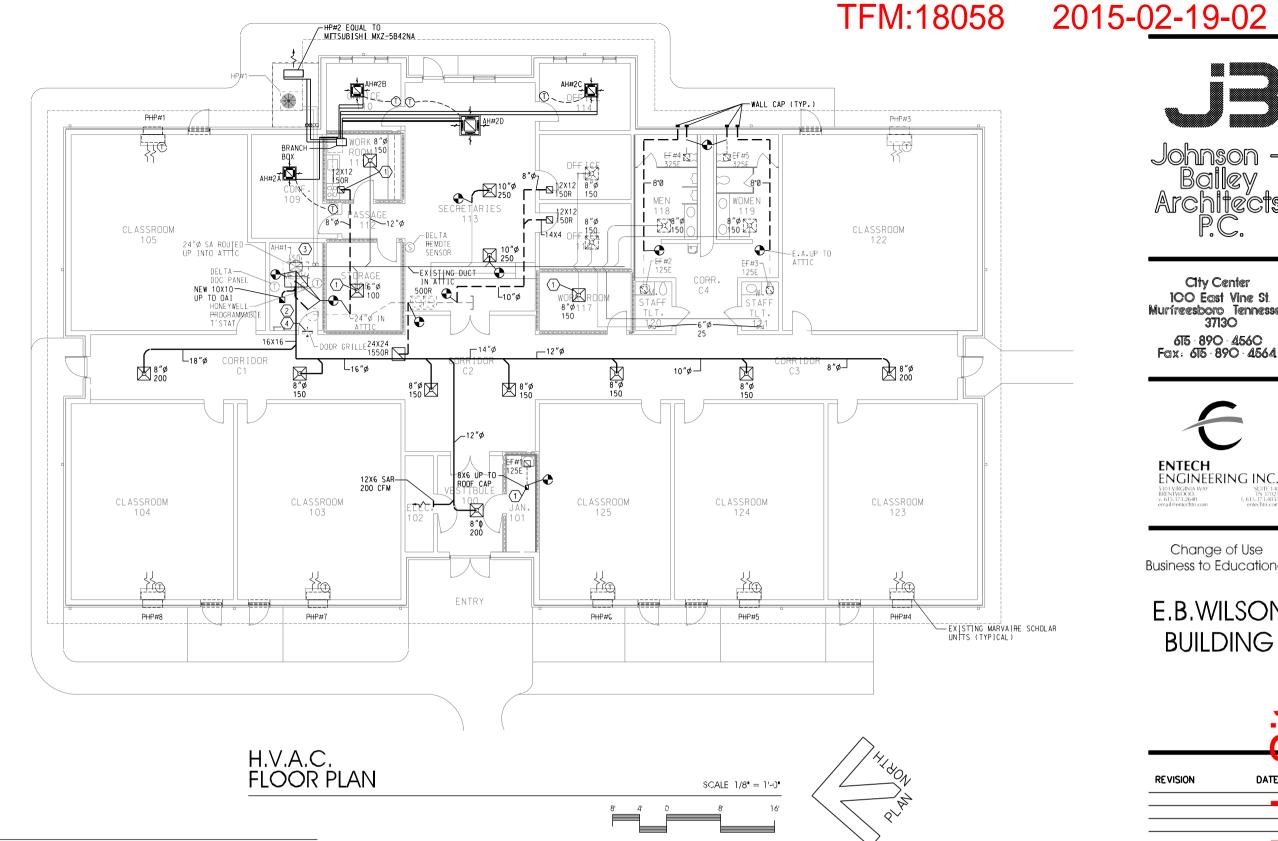
Change of Use Business to Educational

BUILDING

MXZ-8B48NA

1) ELECTRICAL FEEDER SHALL CONNECT TO THE HP UNIT & THEN TO THE AH'S PROVIDE CONDENSATE PUMP W/EACH A.H.
PROVIDE WITH BRANCH BOX (208/1/60 VOLTS)

HP29-090-3Y



GENERAL NOTES:

- A. COORDINATE DUCTWORK WITH ALL TRADES PRIOR TO FABRICATION. SUBMIT ANY MAJOR CHANGES IN DUCT ROUTING OR DUCT SIZING AS A SHOP DRAWING TO THE ARCHITECT/ENGINEER FOR REVIEW.
- B. COORDINATE CEILING AIR INLETS AND OUTLETS WITH REFLECTED CEILING PLAN. DO NOT LOCATE ANY AIR OUTLETS WITHIN 3 FEET OF CEILING SMOKE DETECTORS.
- C. MAINTAIN CLEARANCES FROM ELECTRICAL PANELS AS REQUIRED BY N.E.C.
- D. MAINTAIN CLEARANCES FOR SERVICE OF HVAC EQUIPMENT AS REQUIRED BY MANUFACTURER AND NEC 110.26. PROVIDE MECHANICAL ROOM SHOP DRAWINGS AS REQUIRED FOR COORDINATION.
- E. REFERENCE CONTROL SCHEMATICS & DUCTWORK DETAILS FOR MANUAL AND AUTOMATIC DAMPER LOCATIONS.
- F. PROVIDE CONDENSATE DRAINS FROM EACH NEW AIR HANDLER AND BRANCH BOX.
- G. CONFIRM PROPER SEALING OF ALL RATED WALL AND CEILING ASSEMBLIES WITH A PROPER U.L. LISTED ASSEMBLY. REWORK PENETRATIONS AS REQUIRED TO COMPLY. THIS APPLIES TO MECHANICAL AND PLUMBING PIPING PENETRATIONS.

- 1. NEW STEEL DIFFUSER & RADIATION FIRE DAMPER AT NEW DRYWALL CEILING PENETRATION.
- 2. NEW RETURN DUCT AND OUTSIDE AIR CONNECTED TO UNIT.
- 3. EXISTING DUCT SMOKE DETECTOR CONFIRM OPERATION AND INTERLOCK.
- 4. CAP BACK SIDE OF DOOR GRILLE WITH SHEET METAL, CAULK & FASTENERS.

WALL LEGEND & NOTES:

EXISTING	C.M.U 1-HOUR FIRE WALL
EXISTING	CONCRETE MASONRY UNIT WALL
EXISTING	C.M.U./BRICK VENER EXTERIOR WALL



EXISTING	C.M.U 1-HOUR FIRE WALL
EXISTING	CONCRETE MASONRY UNIT WALL
EVISTING	C M I I / PRICK VENETR EXTERIOR WALL

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615 - 890 - 456C

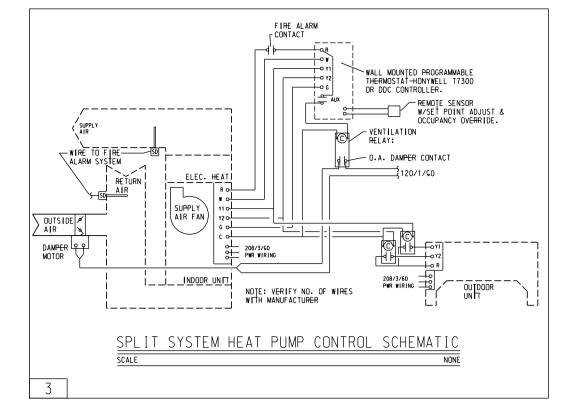
Fax: 615 890 4564

ENTECH ENGINEERING INC.

Change of Use Business to Educational

E.B.WILSON

BUILDING





PROJECT NO.

1.1 REGULATORY REQUIREMENTS

A. Conform to 2009 International Building Code, Mechancial Code and Plumbing Code.

1.2 TRANSPORTATION AND HANDLING

A. Transport and handle Products in accordance with manufacturer's instructions.

B. Promptly inspect shipments to ensure that Products comply with requirements, quantities are correct, and Products are undamaged C. Provide equipment and personnel to handle Products by methods to prevent soiling, disfigurement, or damage.

1.3 STORAGE AND PROTECTION

A. Store and protect Products in accordance with manufacturers' instructions, with seals and labels intact and legible.

B. Store sensitive Products in weather tight, climate controlled enclosures. C. For exterior storage of fabricated Products, place on sloped supports, above ground.

 $\ensuremath{\mathsf{D}}\xspace$. Provide bonded off-site storage and protection when site does not permit on-site storage or protection. PART 2 PRODUCTS

2.1 MECHANICAL IDENTIFICATION

A. Plastic Nameplates and Tags: Laminated three-layer plastic.

PART 3 EXECUTION

3.1 INSTALLATION

A. Install plastic nameplates with adhesive.

B. Install plastic tags with corrosion resistant metal chain.

3.2 TESTING. ADJUSTING. AND BALANCING

A. Report Forms: AABC National Standards for Total System Balance forms.

B. Air Handling Systems: Adjust to within plus or minus 5 percent for supply systems and plus or minus 10 percent for return and exhaust systems of design.

C. Air Outlets and Inlets: Adjust to within plus or minus 10 percent of design.

D. T.A.B. Contractor shall be AABC or NESB certified.

SECTION 15250 - MECHANICAL INSULATION

PART 1 GENERAL NOT USED

2.A. 6185s | NSU-ATTRNgid molded, noncombustible with vapor barrier jacket. B. Cellular Foam: ந்ன்ble. cellular elastomeric. molded or sheet.

C. Jackets
1. PVC Plastic: pne piece molded type fitting covers.

2.2 DUCTWORK INSULATION

A. Flexible Glass Fiber: Flexible, noncombustible blanket with vapor barrier jacket.

3.1 INSTALLATION

A. Piping Insulation
Provide cold pipes with vapor barrier jackets. Insulate complete system.
Provide cold pipes with standard jackets. Bevel that seal ends of insulation at equipment, flanges, and unions.
Interior exposed pibing - carvas jacket and fitting covers.
Exterior piping - aluminum jacket and fitting covers.
Exterior Ductwork Insulation
Provide cold ductwork with vapor barrier jacket. Seal vapor barrier penetrations with vapor barrier adhesive.
Interior exposed ductwork, rigid duct board, finish with canvas jacket sized for finish pointing.
Exterior ductwork, rigid duct board, finish with aluminum jacket.

3.2 SCHEDULES

Pipe Size Thickness Inch Inch A. Piping Insulation Glass Fiber or Cellular Foam Insulation
 Domestic Cold Mater
 Domestic Not Water
 Floor Drains above grade on q|| sizes q|| sizes d|| sizes

Cellular Foam Insulation Refrigerant Suction Piping (Inside) all sizes Refrigerant Suction Piping (Outside) all sizes

Thickness Finish Inch B. Ductwork Insulation FSK

 Flexible Glass Fiber
 Exhaust Ducts Within 10 ft
 of Exterior Openings
 Supply Ducts
 Return Ducts
 Exterior Supply & Return Ducts 1-1/2" FSK FSK FSK

SECTION 15880 - AIR DISTRIBUTION PART 1 GENERAL

NOT USED PART 2 PRODUCTS

2.1 DUCTWORK

Materials
 Steel Ducts: Galvanized steel sheet. lock-forming quality.
 Flexible Ducts: Fabric supported by helically wound spring steel wire or flat steel bands.

Metal Ductwork

1. Fabricate and support in accordance with SMACNA HVAC Duct

B. Construction Standards - Metal and Flexible.

2. Construct i's bends, and elbows with radius of 1-1/2 times width of duct on center line or brovide turning vanes.

3. Increase duct sizes gradually, not exceeding 30 degrees divergence and 45 degrees convergence.

2.2 DUCT ACCESSORIES

A. Volume Control Dampers
1. Fabrication: SMACNA HVAC Duct Construction Standards - Metal and Flex ble.
2. Splitter ampers: Same gage as duct to 24 inches size and two gages nearly er for larger sizes. Provide for duct sizes to 12 x 30 inch.
3. Englished to the control of th

B. Backdraft Dampers: Fabricate multi-blade parallel action gravity balanced backdraft dampers of galvanized steel or extruded aluminum, with center bivoted biddes inked together.

C. Flexible Duct Connections: UL listed fire-retardant neoprene coated woven glass fiber fabric to NFPA 90A- approximately 3 inches wide crimped into metal edging sthip.

D. Duct Access Doors
1. Fabricate in accordance with SMACNA HVAC Duct Construction
Standards - Metal and Flex bie.
2. Access doors smaller than 12 inches sauare may be secured with sash locks. Access doors with sheet metal screw fasteners are not acceptable.

2.3 AIR OUTLETS & INLETS

A. Ceiling Diffusers: MetalAire 5600-6. Rectangular stamped or spun-multi-core type diffuser to discharge air in 360 degree pattern, with sectorizing baffles where indicated radial opposed blade damber: baked ename: off-white finish.

B. Registers/Grilles: MetalAire CC5D. Fixed grilles of 1/2 x 1/2 x 1/2 inch louvers: with factory off-white finish.

PART 3 EXECUTION

3.1 INSTALLATION

A. Provide backdraft dampers on discharge of exhaust fans.

B. Connect diffusers to low pressure ducts with 5 feet maximum length of flexible duct.

Provide flexible connections immediately adjacent to equipment in ducts associated with fans and motorized equipment.

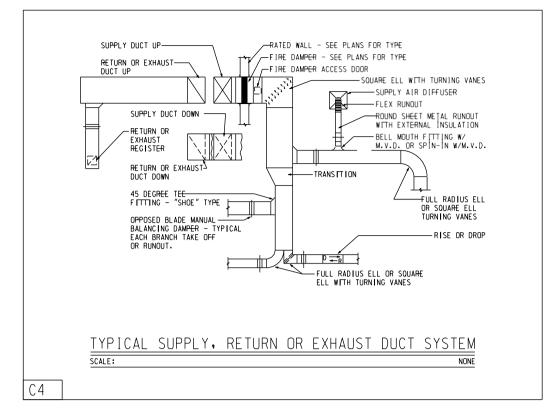
D. Provide duct access doors for inspection and cleaning before and after filters. coils, fdns. dutomatic dampers at fire dampers, and elsewhere as indicated.

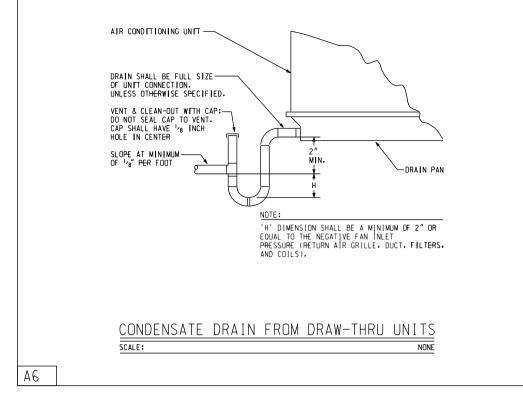
E. Check location of air outlets and iplets and make necessary adjustments in position to conform with architectural features, symmetry, and lighting arrangement.

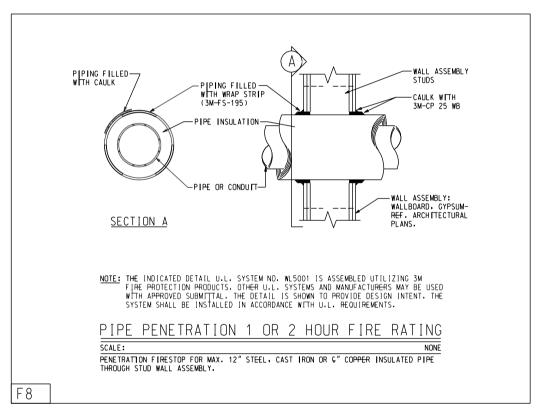
F. Provide balancing dampers on duct take-off to all diffusers, and grilles and registers.

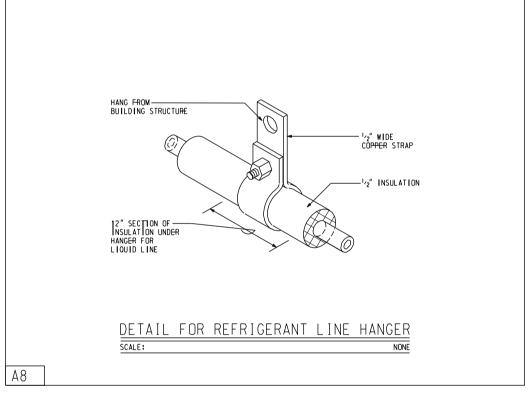
C. Paint ductwork visible behind air outlets and inlets matte black.

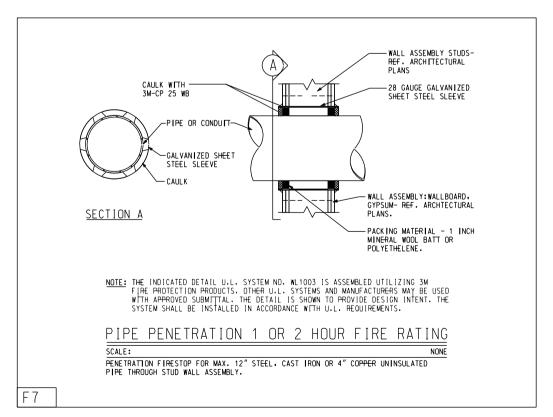
H. Seal qll ductwork longitudinal and transverse segms and connections with sealant listed and labeled in accordance with UL181A or UL181B. Duct connections to flanges of air distribution systems shall be sealed and mechanically fastened.

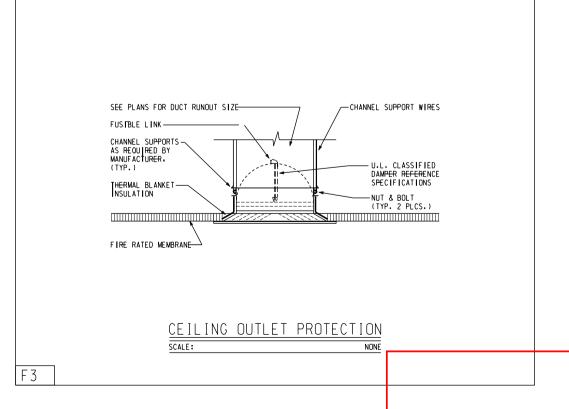














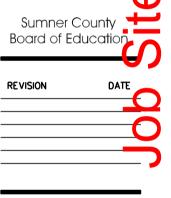
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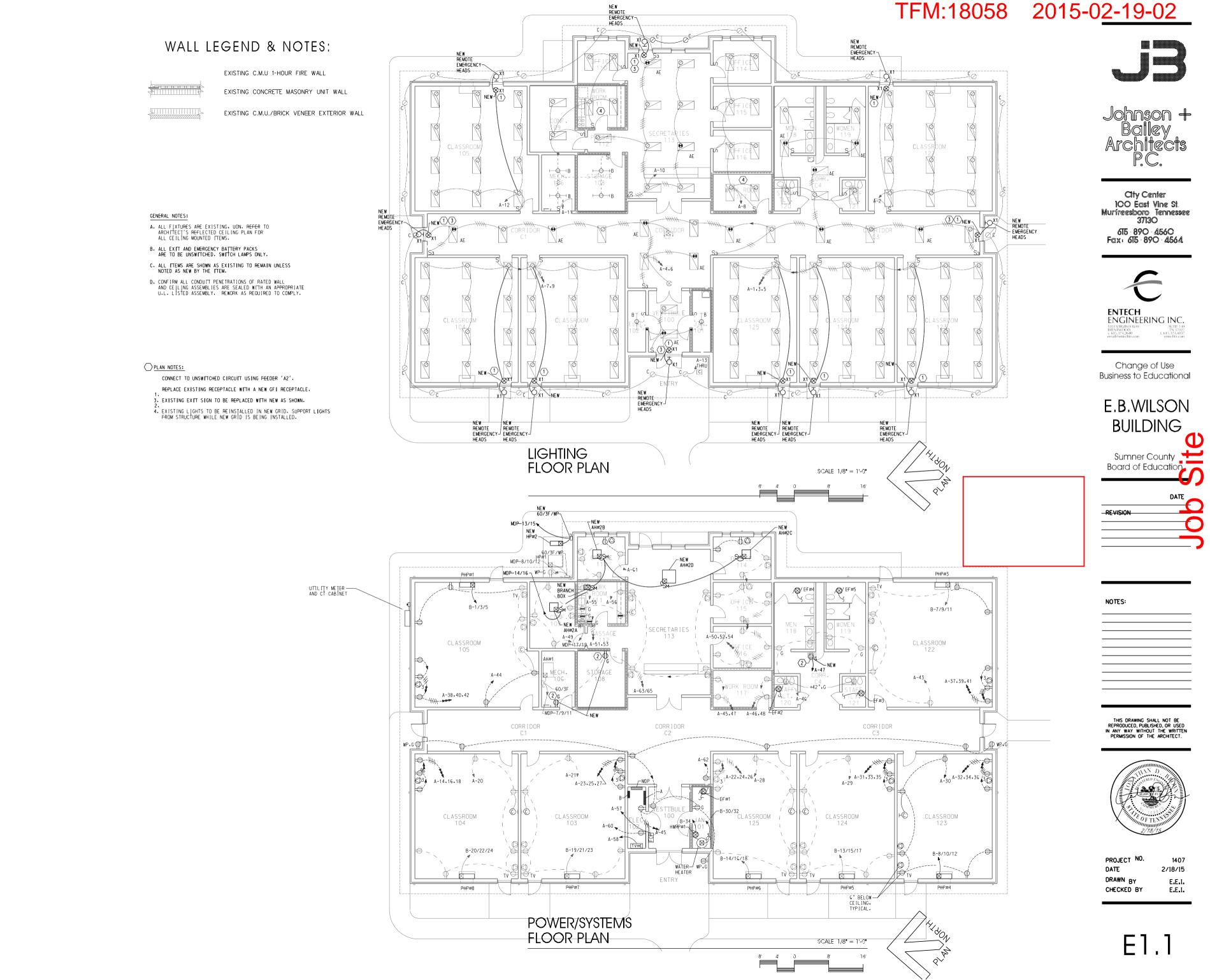
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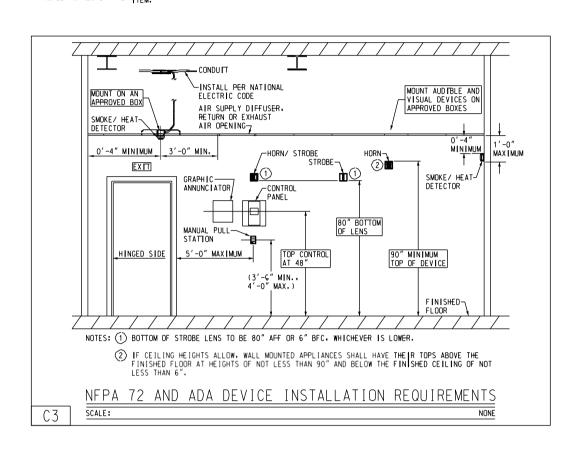


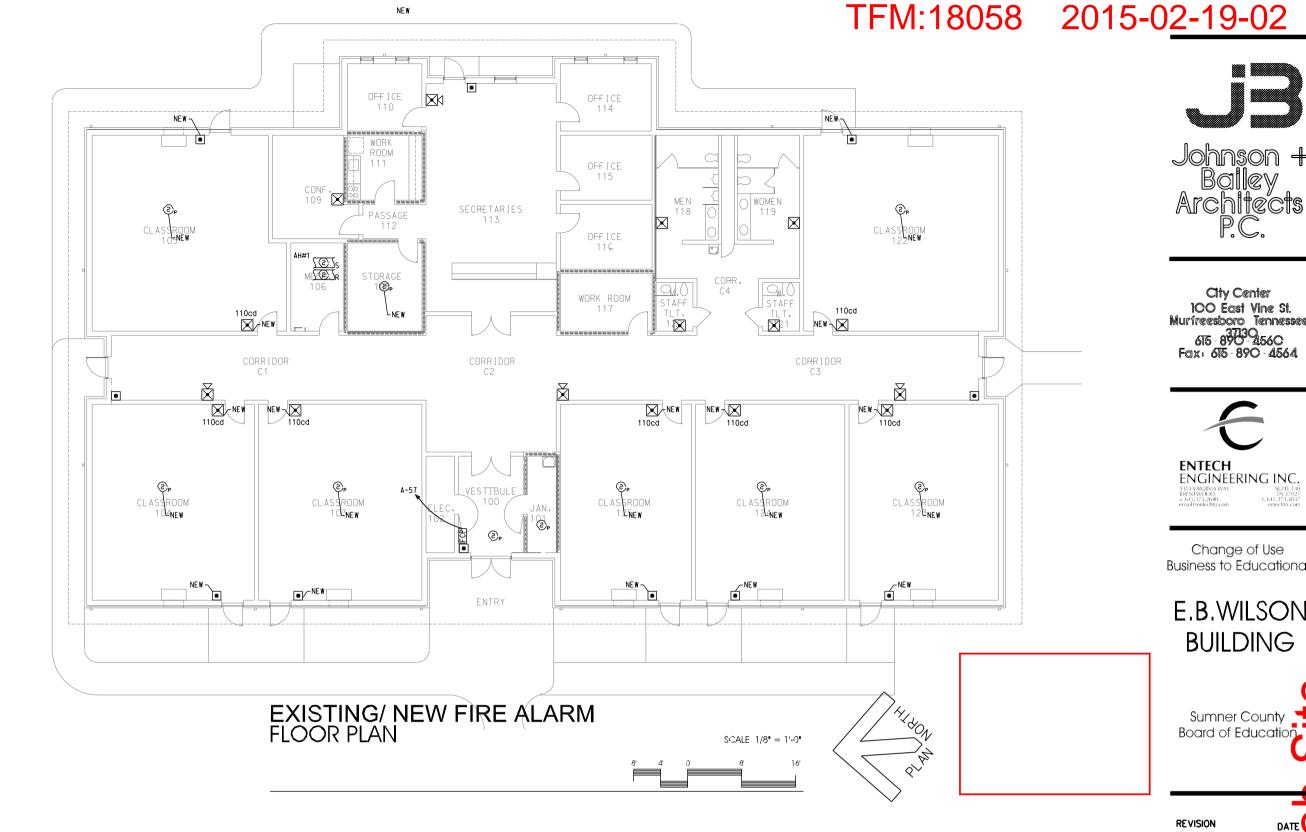
NEW

TFM:18058 2015-02-19-02

FIRE ALARM GENERAL NOTES:

- A. ALL REQUIRED DOCUMENTATION REGARDING THE DESIGN OF FIRE PROTECTION. ALARM AND COMMUNICATION SYSTEMS AND THE PROCEDURES FOR MAINTENANCE. INSPECTION AND TESTING OF THE FIRE DETECTION. ALARM AND COMMUNICATION SYSTEMS SHALL BE MAINTAINED AT AN APPROVED. SECURED LOCATION FOR THE LIFE OF THE SYSTEM.
- B. FIRE ALARM CONTRACTOR MUST BE CERTIFIED IN ACCORDANCE WITH THE TENNESSEE ALARM CONTRACTORS LICENSING ACT OF 1991. TCA TITLE 62. CHAPTER 32.
- C. ALL AUDIBLE NOTIFICATION DEVICES ARE TO HAVE A 87db RATING AT 10 FEET. REFER TO SPECIFICATION SECTION 16721.
- D. THE FIRE ALARM CONTROL PANEL CIRCUIT DISCONNECTING MEANS SHALL HAVE A RED MARKING AND SHALL BE ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL AND SHALL BE IDENTIFIED AS 'FIRE ALARM CIRCUIT' THE LOCATION OF THE CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL UNIT. PROVIDE 'LOCK-ON' DEVICE FOR BREAKER(S) SERVING FIRE ALARM CONTROL UNITS.
- E. ALL TTEMS ARE SHOWN AS EXISTING TO REMAIN UNLESS NOTED AS NEW BY THE TTEM.





WALL LEGEND & NOTES



EXISTING C.M.U 1-HOUR FIRE WALL EXISTING C.M.U./BRICK VENER EXTERIOR WALL EXISTING CONCRETE MASONRY UNIT WALL

	FIRE ALARM SYSTEM LEGEND	
SYMBOL	DESCRIPTION	MTG. HGT.
•	FIRE ALARM MANUAL PULL STATION	
⊕ _{R/F}	FIRE ALARM CEILING MOUNTED HEAT DETECTOR	
® _₽	FIRE ALARM CEILING MOUNTED SMOKE DETECTOR	
[3]	FIRE ALARM DUCT MOUNTED SMOKE DETECTOR	
$\boxtimes \lozenge$	FIRE ALARM FLASHING LIGHT/HORN	
\boxtimes	FIRE ALARM FLASHING LIGHT	
FCP	FIRE ALARM CONTROL PANEL	
FSA	FIRE ALARM ANNUNCIATOR PANEL	
Î	FIRE ALARM DOOR HOLDER	
⊱& -\$	FIRE ALARM FLOW DETECTOR/SWITCH	
≻ ₽≺	FIRE ALARM TAMPER DETECTOR/SWITCH	
⊱ . № — \$	FIRE ALARM POST INDICATOR VALVE	
(R)	FIRE ALARM REMOTE INDICATOR LIGHT & TEST SWITCH - CEILING MOUNTED	

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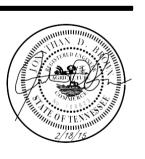
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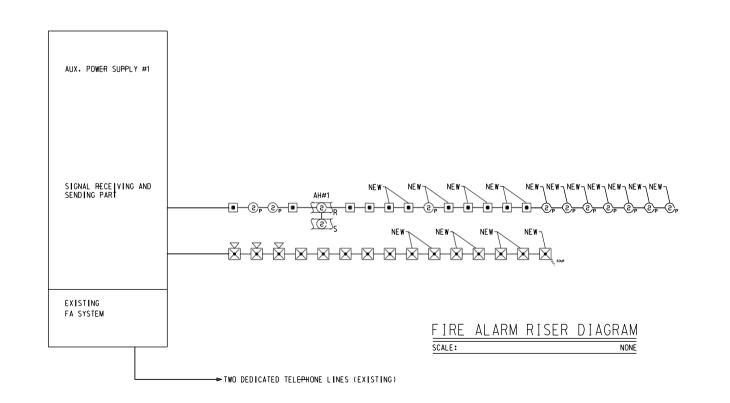


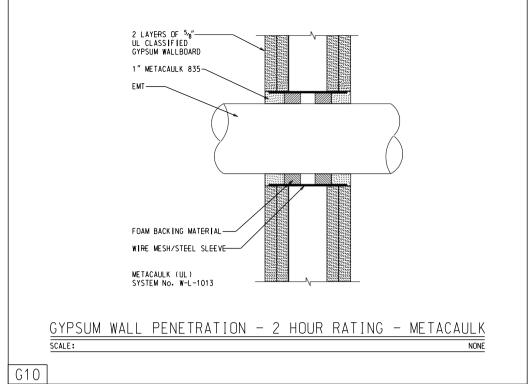
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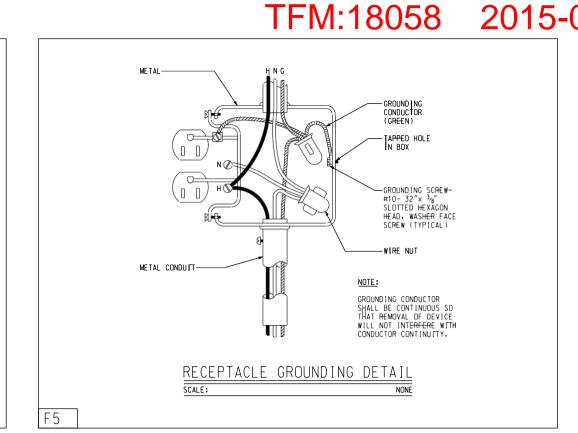
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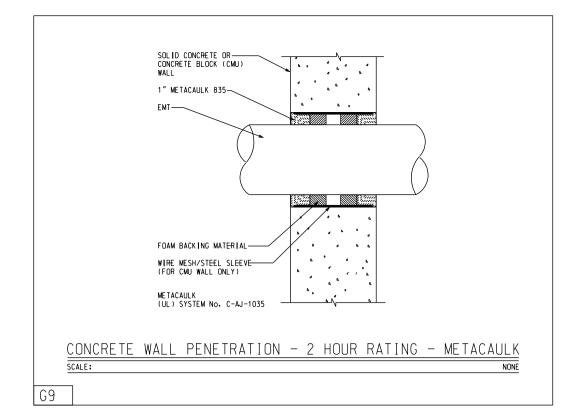


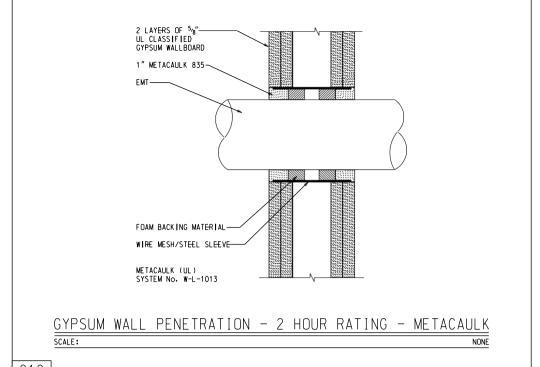
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FEEDER No. 02

NO. AMPSIPLS.

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C2 45 3

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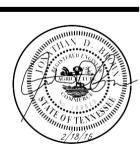
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2015-02-19-02

MOUNTING: SURFACE AMPS S.I.C.: 65000 SERVICE: UTILITY TRANS.
MAINS: 800A MCB SECTIONS: 2 TYPE: I-LINE PANEL: MDP FEEDER No. T4 VOLTAGE: 120/208V 3P.4W AMPSIPLS. FDR NO. SERVES 200 3 M2 PANEL A 02 400 3 23.4¢ 5 — 51.56 ¢ 28.10

4.¢6 7 8.1¢ — 8 3.50 HP#1

4.¢6 9 — 8.1¢ — 10 3.50 50 3 C2 AH#1 D2 G0 3
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 100 3 0.00 21 — 0.00 — 22 0.00 0.00 23 — 0.00 24 0.00 0.00 25 0.00 — 26 0.00 SPACE ONLY SPARE 100 3 SPARE 20 1 0.00 27 — 0.00 — 28 0.00 SPACE ONLY 20 1 0.00 29 — 0.00 30 0.00 SPACE ONLY
0.00 31 0.00 — 32 0.00 SPACE ONLY
0.00 33 — 0.00 — 34 0.00 SPACE ONLY 20 1 SPACE ONLY 20 1 20 1 SPACE ONLY 20 1 20 1 SPACE ONLY 0.00 35 - 0.00 36 0.00 SPACE ONLY 20 1 20 1 SPACE ONLY 0.00 37 0.00 — — 38 0.00 TVSS B2 30 3 20 1 SPACE ONLY 0.00 39 — 0.00 — 40 0.00 20 1 SPACE ONLY 0.00 41 — 0.00 42 0.00 * NEW-CHANGE OUT EXISTING 20A/2P BREAKER TOTALS: 68.57 64.06 63.88 TO NEW 50A/2P BREAKER TO MATCH EXISTING

TOTAL: 196.51

MANUFACTURER/AIC RATING.

L	_ U	AD SUM	IVIARI		
PANEL: MDP	PANEL: MDP - 208 VOLTS. 3 PHASE				
LOAD TYPE		CONNECTED K.W.	DEMAND FACTOR	DEMAND K.W.	PHASE AMPS
LIGHTING		18.64	1.00	18.64	51.74
RECEPTACLES		58.72	_	34.36	95.37
HE ATING		111.65	1.00	111.65	309.91
COOL ING		0.00	0.00	0.00	0.00
WATER HEATERS		5.50	1.00	5.50	15.27
MISC.		2.00	1.00	2.00	5.55
TOTAL		196.51	_	172.15	477.84
MINIMUM FEEDER AMPS :	= 1.2	25 X 477.8	4 = 59	7.30	

VUL	I AUE :	1207	200V 3F 4W	MAINS: 2	ZUUA M	AL U	SECT TUN	13: 2						
AMPS	IPLS.	FDR NO.	SERVES	CKT. K.W.	POLE NO.	A	PHASE KI	W C	POLE NO.	CKT. K.W.	SERVES	FDR NO.	AMPS	PLS
20	1	A2	LGTS-CLRM 123	1.68	1	3.36			2	1.68	LGTS-CLRM 122	A2	20	1
20	1	A2	LGTS-CLRM 124	1.68	3	_	3.50	_	4	1.82	LGTS-CORRIDOR C3.TLTS	A2	20	1
20	1	A2	LGTS-CLRM 125	1.12	5	_	_	2.94	6	1.82	LGTS-CORRIDOR C1.C2, VEST	A2	20	1
20	1	A2	LGTS-CLRM 104	1.68	7	2.80	_	_	8	1.12	LGTS-OFF ICES. VENDING	A2	20	1
20	1	A2	LGTS-CLRM 103	1.68	9	_	2.94	_	10	1.26	LGTS-SECRETARIES	A2	20	1
20	1	A2	LGTS-OFFICE.CONF.STOR.	1.12	11	_	_	2.80	12	1.68	LGTS-CLRM 105	A2	20	1
20	1	A2	LGTS-ENTRANCES	1.17	13	1.50	_	_	14	1.20	RECEPT-CLRM 104	A2	20	1
20	1		SPARE	0.00	15	_	1.20	_	16	1.20	RECEPT-CLRM 104	A2	20	1
20	1		SPARE	0.00	17	_	_	1.20	18	1.20	RECEPT-CLRM 104	A2	20	1
20	1		SPARE	0.00	19	1.08	_	_	20	1.08	RECEPT-CLRM 104	A2	20	1
20	1	A2	RECEPT-CLRM 103	1.08	21	_	2.28	_	22	1.20	RECEPT-CLRM 125	A2	20	1
20	1	A2	RECEPT-CLRM 103	1.20	23	_	_	2.40	24	1.20	RECEPT-CLRM 125	A2	20	1
20	1	A2	RECEPT-CLRM 103	1.20	25	2.40	_	_	26	1.20	RECEPT-CLRM 125	A2	20	1
20	1	A2	RECEPT-CLRM 103	1.20	27	_	2.28	_	28	1.08	RECEPT-CLRM 125	A2	20	1
20	1	A2	RECEPT-CLRM 124	1.08	29	_	_	2.16	30	1.08	RECEPT-CLRM 123	A2	20	1
20	1	A2	RECEPT-CLRM 124	1.20	31	2.40	_	_	32	1.20	RECEPT-CLRM 123	A2	20	1
20	1	A2	RECEPT-CLRM 124	1.20	33	_	2.40	_	34	1.20	RECEPT-CLRM 123	A2	20	1
20	1	A2	RECEPT-CLRM 124	1.20	35	_	_	2.40	36	1.20	RECEPT-CLRM 123	A2	20	1
20	1	A2	RECEPT-CLRM 122	1.20	37	2.40	_	_	38	1.20	RECEPT-CLRM 105	A2	20	1
20	1	A2	RECEPT-CLRM 122	1.20	39	_	2.40	_	40	1.20	RECEPT-CLRM 105	A2	20	1
20	1	A2	RECEPT-CLRM 122	1.20	41	_	_	2.40	42	1.20	RECEPT-CLRM 105	A2	20	1
20	1	A2	RECEPT-CLRM 122	1.08	43	2.16	_	_	44	1.08	RECEPT-CLRM 105	A2	20	1
20	1	A2	VEND I NG	1.00	45	_	2.00	_	46	1.00	VEND I NG	A2	20	1
20	1	A2	VEND I NG	1.00	47	_	_	2.00	48	1.00	VEND I NG	A2	20	1
20	1	A2	RECEPT-CONFERENCE	1.08	49	2.16	_	_	50	1.08	RECEPT-OFFICE 114	A2	20	1
20	1	A2	RECEPT-WORK ROOM	1.08	51	_	2.16	_	52	1.08	RECEPT-OFFICE 115	A2	20	1
20	1	A2	MICRWAVE	1.00	53	_	_	2.08	54	1.08	RECEPT-OFFICE 116	A2	20	1
20	1	A2	REFRIGERATOR	1.00	55	2.00	_	_	56	1.00	COPIER	A2	20	1
20	1	A2	FIRE ALARM PANEL	1.00	57	_	2.00	_	58	1.00	TVHE	A2	20	1
20	1		SPARE	1.00	59	_	_	2.00	60	1.00	ПВ	A2	20	1
20	1	A2	RECEPT-OFFICE 110	1.08	Ç 1	1.08	_	_	62	1.00	EDP	A2	20	1
20	1	A2	RECEPT-SECRETARIES	1.08	6 3	_	1.08	_	64	0.00	SPARE		20	1
20	1	A2	RECEPT-SECRETARIES	1.08	Ģ 5	_	_	1.08	66	0.00	SPARE		20	1
20	1		SPARE	0.00	6 7	0.00	_	_	68	0.00	SPARE		20	1
20	1		SPARE	0.00	€9		0.00		70	0.00	SPARE		20	1
20	1		SPARE	0.00	71			0.00	72	0.00	SPARE		20	1
20	1		SPACE ONLY	0.00	73	0.00			74	0.00	SPACE ONLY		20	1
20	1		SPACE ONLY	0.00	75	_	0.00	_	7€	0.00	SPACE ONLY		20	1
20	1		SPACE ONLY	0.00	77	_	_	0.00	78	0.00	SPACE ONLY		20	1
20	1		SPACE ONLY	0.00	79	0.00	_	_	80	0.00	TVSS	В2	30	3
20	1		SPACE ONLY	0.00	81	_	0.00	_	82	0.00				
		-		-	-				_	_	t	\leftarrow	-	-

PANELBOARD SCHEDULES

MAINS: 200A MLO SECTIONS: 2

MOUNTING: SURFACE AMPS S.I.C.: G5000 SERVICE: PANEL MDP

PANEL: A

VOLTAGE: 120/208V 3P.4W

TYPE: NOOD

SPACE ONLY

* NEW-SEE GENERAL NOTE 'D' ON SHEET E1.2. TOTALS: 23.34 24.24 23.46 PROVIDE LOCK-ON DEVICE FOR FIRE ALARM PANEL BREAKER. TOTAL: 71.04

ELECT. ROOM ___'T4' FEEDER UTIL TY ME LER MDP 4X8 TTB

RISER DIAGRAM NO SCALE

RISER NOTES:

1. TO UTILITY RISER
UTILITY CO. POLE. COORDINATE LOCATION WITH

45 3 C2 PHP#1

VOLTAGE: 120/208V 3P.4W

TYPE: NOOD

PANEL: B

20 1

20 1

20 1

SPARE

SPARE

SPARE

FEEDER No. M2

 MAINS: 400A ML0
 SECTIONS: 1

 CKT. NO.
 POLE A B C NO.
 CKT. K.W. NO.
 SERVES

 3.83
 1
 3.83
 —
 2
 0.00
 SPARE

 3.83
 3
 —
 3.83
 —
 4
 0.00
 —

 3.83
 7
 7.66
 —
 8
 3.83
 PHP#4

 3.83
 9
 —
 7.66
 —
 10
 3.83
 PHP#4

 3.83
 11
 —
 7.66
 —
 12
 3.83
 PHP#C

 3.83
 13
 6.73
 —
 14
 2.90
 PHP#C

 3.83
 17
 —
 6.73
 —
 16
 2.90

 3.83
 17
 —
 6.73
 18
 2.90

 3.83
 17
 —
 6.73
 18
 2.90

 3.83
 21
 —
 7.66
 —
 20
 3.83
 PHP#8

 3.83
 21
 —
 7.66
 —
 <td AMPSIPLS. FDR NO. SERVES 45 3 C2 PHP#3

MAINS: 400A MLO SECTIONS: 1

C2 45 3 20 1 SPARE 20 1 SPARE
 0.00
 29
 —
 2.45
 30
 2.25
 WATER HEATER

 0.00
 31
 2.25
 —
 32
 2.25

 0.00
 33
 —
 1.00
 —
 34
 1.00
 HWRP#1
 SPARE B1 30 2 SPARE SPARE A2 20 1 0.00 35 - 0.00 36 0.00 SPACE ONLY SPARE 20 1 20 1

0.00 37 0.00 — — 38 0.00 SPACE ONLY

0.00 39 — 0.00 — 40 0.00 SPACE ONLY

0.00 41 — 0.00 42 0.00 SPACE ONLY

MOUNTING: SURFACE AMPS S.I.C.: \$5000 SERVICE: PANEL MDP

TOTALS: 28.13 26.88 28.10 TOTAL: 83.11

BRANCH CIRCUIT AND FEEDER LEGEND FEEDER NO. CONDUIT AND WIRE '/2" - 2 #12 & 1 #12 GND. A2 3/4" - 3 #12 & 1 #12 GND. 3/4" - 2 #10 & 1 #10 GND. B1 3/4" - 3 #10 & 1 #10 GND. B2 1" - 3 #8 & 1 #10 GND. C2 D1 1" - 2 #6 & 1 #10 GND. D2 1" - 3 #6 & 1 #10 GND. 21/2" - 4 #3/0 & 1 #6 GND. $3^{1}/_{2}$ " - 4 #500MCM & 1 #3 GND.

2 PARALLEL 31/2" - 4 #500MCM

EXISTING

2. 1-3"C. TO UTILITY RISER POLE FOR CABLE TV. COORDINATE 1WATE.CABLETTO.TY RISER WITH TELEPHONE CO.

TFM:18058

3. POLE FOR TELEPHONE, COORDINATE

		LIGHTING FIX	1		AMPS	T		
TYPE	MANUF ACTURER	CATALOG NUMBER	VOLT			MOUNT] NG	REMARKS	
Α	COLUMBT A	ST824-432G-FSA12.125-EB8-120	120	4	32W T8	RECESSED	2X4 LAY-IN	
	ME TALUX							
	L IGHTOL IER							
AE	COLUMBT A	ST824-432G-FSA12.125-EB-120-EM WITH BODINE B50	120	4	32W T8	RECESSED	2X4 LAY-IN WITH BATTERY PACK	
	METALUX							
	L IGHTOL IER							
В	COLUMB 1 A	CS4-232-EB-CSWG4	120	2	32W T8	SURF ACE	4' STRIP	
	METALUX							
	L I GHTOL I ER							
С	PRESCOL ITE	CFTG32EB-STF602-BG	120	1	42W TRT	RECESSED	PL DOWNLIGHT	
	HALO							
	CALCUL ITE							
Х1	DUAL LITE	EVC-U-R-W-D4-O-EVO-D-B	120	-	LED'S	SURF ACE	EXIT WITH EMERG. REMOTE HEADS/BATTERY	
	SURE-LITES							
	L I GHTOL I ER							
8	DUAL LITE	SESRWE	120	-	INCL.	SURF ACE	LED EXIT	
	SURE-LITES							
	LIGHTOLIER							

NOTE: ALL BALLASTS MUST BE ADVANCE. MOTOROLA OR GENERAL ELETRIC * NEW *** EXISTING

GENERAL NOTES AND SPECIFICATIONS

- A. GUARANTEE ALL MATERIALS AND WORKMANSHIP FOR ONE YEAR FROM DATE OF ACCEPTANCE.
- B. COMPLY WITH THE NEC 2011, STATE, AND LOCAL CODES.
- C. USE ONLY COPPER CONDUCTORS AS NOTED. MINIMUM SIZE #12 AWG. USE TYPE THHN, UON. ALL CIRCUITS SHALL BE COLOR CODED.
- D. USE MINIMUM '&" CONDUIT. USE '&" MINIMUM GALVANIZED COATED WITH ASPHALTUM OR SCHEDULE 40 PVC IN CONCRETE BELOW GRADE. FOR PVC. TRANSITION TO RIGID BEFORE EMERGING FROM BELOW. USE EMT WHERE CONCEALED IN WALLS AND CEILINGS. USE RIGID IN SLAB AND UNDERGROUND.
- E. USE STAINLESS STEEL DEVICE COVER PLATES, UON.
- F. ALL ELECTRICAL EQUIPMENT SHALL BE UL LISTED. COMMERCIAL GRADE.
- G. USE HUBBELL WIRING DEVICES AS FOLLOWS:

SWITCHES - 15 AMP. #|201-|, |202-|, |203-| SWITCHES - 20 AMP. #|221-|, |222-|, |223-|, |224-| SWITCHES - MOTOR STARTERS, USE SOUARE D CLASS 2510 RECEPTACLES - 15 AMP. #5252-|, 5262-| FOR GENERAL PURPOSES. RECEPTACLES - 20 AMP. \$G63H-| FOR SAFETY TYPE. RECEPTACLES - GFCI. GF5262-| (15A), GF5362-| (20A).

- H. ALL WIRING MUST BE IN CONDUIT.
- EQUIPMENT OUTSIDE MUST BE WEATHERPROOF. USE HEAVY DUTY DISCONNECT SWITCHES.
- J. CONDUIT OUTSIDE MUST BE GALVANIZED STEEL OR PVC. AS NOTED
- K. USE 6' MAXIMUM LENGTH OF FLEXTBLE CONDUIT TO FIXTURES.
- L. REMOVE TEMPORARY WIRING UPON COMPLETION OF WORK. REMOVE UNUSED EXISTING WIRING UPON COMPLETION OF WORK.
- M. USE BUSS TYPE LPS OR LPN FUSES FOR MOTORS AND EQUIPMENT. USE BUSS TYPE KTS OR KTN FUSES FOR PANEL AND TRANSFORMER FEEDERS.
- N. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL UTILITIES. MECHANICAL EQUIPMENT AND EQUIPMENT FURNISHED BY OWNER PRIOR TO ROUGH-IN.
- O. USE "PATE" PIPE SEALS FOR CONDUIT THROUGH ROOF. USE SEALTITE FLEXIBLE CONDUIT FOR EXTERIOR EQUIPMENT. USE'X" SEALTITE FLEXIBLE CONDUIT FOR VIBRATING EQUIPMENT.
- P. PANELBOARDS ARE EXISTING CUTLER HAMMER, UON. THE ELECTRICAL CONTRACTOR IS TO MATCH EXISTING FOR ANY NEW BREAKERS REQUIRED.
- O. DO NOT INSTALL MORE CONDUCTORS IN A BRANCH CIRCUIT HOMERUN THAN SHOWN.
- R. ALL WORK SHALL BE COORDINATED WITH OWNER'S REPRESENTATIVE.
- S. INSTALL CONTROL WIRING IN MINIMUM ½" CONDUIT FOR ALL HVAC UNITS TO THERMOSTATS AND ROOFTOP UNITS, ETC. SEE MECHANICAL CONTROL AND MANUFACTURER'S DRAWINGS.
- T. USE SEALTTTE FLEXIBLE CONDUIT FOR EXTERIOR EQUIPMENT.
- U. FLUDRESCENT LAMP EMERGENCY POWER SUPPLY SHALL BE ONE LAMP
 AS SCHEDULED ON THE PLANS PROVIDING 1100-1400 LUMENS, MINIMUM.
 THE BATTERY SHALL BE A NICKEL CADMIUM TYPE. RATED FOR A TEN
 YEAR LIFE. INCLUDE TEST SWITCH AND AC ON INDICATOR LIGHT.
 INSTALLED TO BE OPERABLE AND VISIBLE FROM THE OUTSIDE OF AN
 ASSEMBLED LUMINAIRE.

TFM:18058 2015-02-19-02

SYMBOL	DESCRIPTION	MTG. HGT.						
0	CEILING OUTLET, SURFACE FIXTURE							
0	CEILING OUTLET, RECESSED FIXTURE							
0	CEILING OUTLET, RECESSED FIXTURE W/BATTERY BACK UP							
Q	BRACKET OUTLET							
	RECESSED FLUORESCENT LIGHTING FIXTURE							
	FLUORESCENT STRIP LIGHT FIXTURE							
<u></u>	AREA OR STREET LIGHTING FIXTURE							
⊗	EXIT LIGHT, ARROWS AS SHOWN, ON LIFE SAFETY CIRCUIT							
S	SINGLE POLE SWITCH	48" AFF						
Sз	THREE-WAY SWITCH	48" AFF						
\Leftrightarrow	DUPLEX GROUNDING RECEPTACLE	18" AFF						
€	DUPLEX GROUNDING RECEPTACLE (MOUNTED ABOVE COUNTER)	ABC						
#	DOUBLE DUPLEX GROUNDING RECEPTACLE	18" AFF						
т∨⊖	RECEPTACLE FOR TELEVISION	6"BLW CLG						
①	JUNCTION OR PULL BOX							
N	MOTOR, E.F. DENOTES EXHAUST FAN							
Sm	MANUAL MOTOR STARTER OR RELAY CONTROL							
\boxtimes	MAGNETIC MOTOR STARTER OR TERMINAL CONNECTION							
6	SAFETY SWITCH, WP INDICATES NEMA 3R, FUSED, U.O.N.							
	LIGHTING OR POWER PANEL							
7////	MAIN OR SUB-DISTRIBUTION PANEL							
TC	TIME CLOCK - SEE SPECS							
С	CONTACTOR - SEE SPECS							
æ	PHOTO-ELECTRIC SWITCH - AIM NORTHEAST, SEE SPECS							
	CONDUIT. CONCEALED IN CEILING OR WALL							
	CONDUIT. CONCEALED IN SLAB OR BELOW FLOOR/GRADE							
	CONDUIT, EXPOSED							
o	CONDUIT, TURNING UP							
—о	CONDUIT. TURNING UP							
WP	WEATHERPROOF							
G	GROUND FAULT CURRENT INTERRUPTING							
AF-F	ABOVE FINISHED FLOOR							
UON	UNLESS OTHERWISE NOTED							
GC	GENERAL CONTRACTOR							
MC	MECHANICAL CONTRACTOR							
EC	ELECTRICAL CONTRACTOR							
EDF	ELECTRIC DRINKING FOUNTAIN							
A.C.U.	AIR CONDITIONING UNIT							
FB0	FURNISHED BY OTHERS							
ΤΤВ	TELEPHONE TERMINAL BOARD							
TVSS	TRANSIENT VOLTAGE SURGE PROTECTOR							
O	MULTI USE OUTLET FOR VOICE, DATA, VIDEO (1"C. TO ABOVE CEILING)	18" AFF						
⊕	MULTI USE OUTLET FOR VOICE, DATA, VIDEO ABOVE COUNTER (1"C.TO ABOVE CEILING)	ABC						
TVHE	TELEVISION HEAD-END EQUIPMENT							
<u> </u>	SPEAKER, CEILING MOUNTED							
©	CLOCK OUTLET, WALL MOUNTED	€'-8" AFH						
₽ R	RANGE OUTLET	8" AFF						

		BRANCH CIRCUITING LEGEND
	A-1	ONE 1-POLE CKT HOMERUN TO PANEL A
 =>	A-1.3	TWO 1-POLE CKT HOMERUNS TO PANEL A
	A-1.3.5	THREE 1—POLE CKT HOMERUNS TO PANEL A
→	A-1/3	ONE 2-POLE CKT HOMERUN TO PANEL A
	A-1/3.2/4	TWO 2-POLE CKT HOMERUNS TO PANEL A
	A-1/3/5	ONE 3-POLE CKT HOMERUN TO PANEL A
NOTE: ALL	MUL∏-WIRE 8	BRANCH CIRCUITS TO COMPLY WITH 2008 NEC 210.4

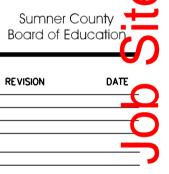


City Center 100 East Vine St Murireesboro Tennessee 37130 615 - 890 - 4560 Fax: 615 - 890 - 4564



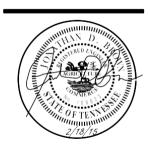
Change of Use Business to Educational

E.B.WILSON BUILDING



NOTES:			

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PROJECT NO. DATE CHECKED BY

E4.1

E.B.WILSON BUILDING

(1) Sumner County Board of Education Board of Education

NOTES:

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E4.2

16721

ALARM SYSTEM

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Fire alarm control and annunciator panels.

B. Manual fire alarm stations.

C. Automatic smoke and heat detectors.

D. Fire alarm signaling appliances. E. Auxiliary fire alarm equipment.

REFERENCES

A. NFPA 70 - National Electrical Code.

B. NFPA 72 - Installation, Maintenance, and Use of Protective Signaling Systems.

C. NFPA 101 - Life Safety Code.

D. Americans with Disabilities Act (ADA).

E. ASME/ANS| A17.1 - Safety Code for Elevators and Escalators.

1.3 SYSTEM DESCRIPTION

A. Fire A arm System: NFPA 72, manual and automatic local fire a arm system (intelligent and addressable analog) with connections to a central system, as required by the local authority. System shall be designated as a certificated system based on NFPA 72 and U.L.

1.4 SUBMITTALS

A. Submit under provisions of Division 1.

B. Shop Drawings: Provide annunciator layout and system wiring diagram showing each device and wiring connection required. Provide nominal 11 x 17 inch CADD generated building map indicating devices and connections. Map to be in aluminum frame with plexiglass cover, color per Division 9.

C. Product Data: Provide electrical characteristics and connection requirements.

Test Reports: Indicate satisfactory completion of required tests and inspections, including detector sensitivity and all requirements of the regulatory agencies. Provide reports per NFPA 72. Furnish U.L. certificated system

report using a Listed alarm service company. E. Manufacturer's Installation Instructions: Indicate application conditions and limitations of use stipulated by Product testing agency. Include instructions for storage and indiing, protection, examination, preparation, installation, and starting

F. Submit Power Supply and Battery sizing calculations.
G. A certification report, signed by the Listed alarm service company shall be submitted at the final inspection listing each smoke detector and the test method used to obtain the manufacturer's calibrated sensitivity. Testing shall be accomplished in accordance with NFPA-72 and U.L.

1.5 PROJECT RECORD DOCUMENTS

B. Record actual locations of initiating devices, signaling appliances, epd-of-line applies uponer PSGYD Fiess control with the batteries, power source panel/breaker. DACT, and voice evacuation panels.

OPERATION AND MAINTENANCE DATA

A. Submit ynder provisions of Division 1. A one-year maintenance contract and a year end U.L. inspection certification report are required. The maintenance contractor shall be a Listed alarm service company.

Operation Data: Operating instructions.

1.6
C. Maintenance Data: Maintenance and repair procedures.

1.7 QUALIFICATIONS

A. Manufacturer: Company specializing in manufacturing the products specified in this section with minimum three (3) years documented experience, and with service facilities within 100 miles of Project.

A. Furnish service and maintenance of fire alarm system for one (1) year from Date of Substantial Completion. Use only a Listed alarm service company.

a year end U.L. inspection certification report.

EXTRA MATERIALS

Provide ten (10) manual station break-glass rods.

1.8 MAINTENANCE SERVICE

Provide three (3) of each type of automatic smoke detector without base

B. Provide

MANUF ACTURERS

Add new devices to match existing system. A. Furnish under provisions of Division 1.

2.2 FIRE ALARM AND SMOKE DETECTION CONTROL PANEL

Control Panel: Modular construction with surface wall-mounted enclosure. C. Provide six (6) keys of each type.

1.9

trouble mode.

D. Initiating Device Circuits: Supervised zone module with alarm and trouble
A. EndanthgonSimptexre0004.of single ground or open condition places circuit in trouble mode but does not disable that circuit from initiating an alarm.

B. Power supply: Adequate to serve control panel modules, remote detectors, remote annunciators, door holders, smoke dampers, relays, and alarm signaling devices for shell building and future tenants. Include pottery-operated emergency power supply with capacity for operating system in standby mode for 24 hours followed by alarm mode for 5 minutes. Add batteries as required. D. Initiating Device Circuits: Supervised zone module with alarm and trouble indication; occurrence of single ground or open condition places circuit in trouble mode but does not disable that circuit from initiating an alarm.

E. Indicating Appliance Circuits: Supervised march time signal module, sufficient for signal devices connected to system; occurrence of single ground or open condition places circuit in trouble mode but does not disable that circuit from signaling an alarm.

F. Remote Station Signal Transmitter: Electrically supervised digital alarm communicator transmitter, capable of transmitting alarm and trouble signals over telephone lines to central station receiver. Locate the remote station signal transmitter in the fire alarm panel. Annunciate trouble signal at the control panel and at the remote annunciator. Equal to Silent Knight 5104 and listed compatible with the control panel.

Auxiliary Relays: Provide sufficient SPDT auxiliary relay contacts for each detection zone to provide accessory functions specified. All normally open and hormally closed contacts shall perform in the fail safe mode. Reference Division 15 control diagrams for fire alarm connections and HVAC unit shutdown requirements.

H. Provide TROUBLE ACKNOWLEDGE, DRILL, and ALARM SILENCE switch.

Trouble Sequence of Operation: System or circuit trouble places system in rouble mode, which causes the following system operations:
 Visual and audible trouble alarm indicated by zone at fire alarm control

Visua and audible trouble alarm indicated at remote annunciator panel.

Trouble signal transmitted to central station.

Manua acknowledge function at fire alarm control panel silences audible trouble alarm: visual alarm is displayed until initiating failure or circuit trouble is cleared.

J. Alarm Sequence of Operation: Actuation of initiating device places circuit in alarm mode, which causes the following system operations:

Sound and display local fire alarm signaling devices with march time signal. Synchronize strobes in the same area.

Iransmit zone-coded signal to central station.

Indicate location of alarm zone and device on fire alarm control panel and on remote groups; into panel.

Transmit signal to release door locking system.

K. Alarm Reset: System remains in alarm mode until manually reset with D-key-accessible reset function; system resets only if initiating circuits are out of

alarm mode. L. Lamp Test: Manual lamp test function causes alarm indication at each zone at fire alarm control panel and at annunciator panel.

M. Drill Sequence of Operation: Manual drill function causes alarm mode operation as described above.

N. Zoning: Each addressable device is considered a zone.

Surge Protection: Provide type required by regulatory agency. Verify D. protection for power input and each input from exterior devices, including telephone lines used by the DACT.

2.3 INITIATING DEVICES

degrees F addressable.

C. Ceiling Mounted Smoke Detector: NFPA 72, photoelectric addressable type with adjustable sensitivity, plug-in base, auxiliary relay contact, integral thermal element rated 135 degrees F (57 degrees C), and visual indication of detector actuation, suitable for mounting on 4 inch (102 mm) outlet box. Provide two-wire detector with common power supply and signal circuits.

E. Water flow and Tamper Switches: By Division 15. | nstall addressable adapter D. ՄᲛᲚᲡᲘᲠᲐᲗᲛᲖᲜᲜᲛᲮᲠᲐᲓᲛᲚᲮᲜᲓᲥᲛᲬᲥᲚᲘᲡᲥᲚᲓᲔᲥᲐᲚᲔᲮᲛᲓᲬᲛᲐᲛᲮᲛᲡ chᲛᲧᲛᲦᲥᲛᲓᲛᲓᲬᲜᲓᲬᲔᲓᲜ ᲠᲬᲬᲠᲓᲐ

F. RERGALLABETERS THE CONTROL OF THE

A. Alarm Lights: ADA and NFPA 72, strobe lamp and flasher with red lettered "FIRE" on white housing.

Remote Annunciator: Provide supervised remote annunciator including aydible and visual indication of fire alarm by zone, and audible and visual indication of system trouble. Install in flush wall-mounted enclosure.

Fire Evacuation Speakers: UL Standard 464.8 inch recessed ceiling mounted
B. ฟาตุกๆช่างๆงให้เพื่อต่ากุษใช้งาดอดี Minth รู้เก็อาที่มีเรียกที่มีอุทิกประกอบได้ตามกับกุญ 8 รัฐษาศ์ 10 feet. ชิดทำตุลกาสติวเล็วกลังอุปอกที่มีที่สามารถใช้ เก็บอาที่มีสามารถใช้ เก็บอาที่มีสามารถใช้ เก็บอาที่มีคือ เก็บอาที เอาที่สามารถใช้ การและ พระการณ์ เก็บอาที่มีสามารถใช้ เก็บอาที่มีสามารถใช้ เก็บอาที่มีสามารถใช้ เก็บอาที่มีคือ เก็บอาที่มีสามารถใช้ เก็บอาที่มีคือ เก็บอาที่มีก็นที่มีคือ เก็บอาที่มีคือ เก็บอาที่มีคือ เก็บอาที่มีคือ เก็บอาที่มีคือ เก็บอาที่มีคือ เก็บอาที่มีคือ เก็บอาที่มีคือ เก็บอาที่มี้คือ เก็บอาที่มีคือ เก็บอาที่มีคือ เก็บอาที่มีคือ เก็บอาที่มีคือ เก็บอาที่มีคือ เก็บอาที่มีคือ เก็บอาที่มีคือ เก็บอาที่มีคือ เก็บ

A. Door Holders: Magnetic door holder with integral diodes to reduce buzzing. C. Coil voltage: Match system.

D. Voice Evacuation Control Panels: U.L. Stapdard 464, digital voice messaging. 60 seconds minimum, interfaced with telephone paging, automatic battery backup, microphone input and diagnostic meters.

D. Provide "lock-on" device for breaker(s) serving fire alarm control units.

PAR ₹ · 3. EXECUTION

3.1 INSTALLATION

2.5A. MOSTO NARPROBLACIOS on accordance with manufacturer's instructions.

B. Instal manual station with operating handle 48 inches above floor, to centerline.
Instal audible and visual signal devices 7 feet 4 inches above floor, to centerline.

B. Door Release/Closer: Combination closer and holder hardware to match requirements of Division 8. Voltage to match system.

C. Install addressable adapter modules for sprinkler, system switches, hood suppression switch and each HVAC unit for shutdown as per Division 15 control drawings. Provide "total building" shutdown or "per zone" shutdown as required by local authority.

Use #12 AWG solid minimum size conquetors for signal circuits and #16 AWG Fiaplid minimum size conductors for detection data circuits. Increase conductor size as required to compensate for excessive voltage drop. Install all wiring in conduit. Use fire a arm cable approved by NEC Article 760 with cable integrity (CI) rating. For exterior lipes serving addressable adapter modules, use shielded cable in conduit. The installation method shall conform with Class B wiring. No other wiring shall share raceways or be bundled with fire alarm wiring.

D. Flashing strobe lights shall be wired separately from audible signal devices.

Strobe lights shall be wired in such a way that when the alarm signal is silenced, the strobe light shall continue to flash. The strobe shall flash until the alarm condition responsible for the system initiation has been corrected or

E. Mount end-of-line device in separate box flush in ceiling adjacent to last device in circuit. Provide engraved label on plate.

F. Mount outlet box for electric door holder to withstand 80 pounds pulling force.

G. Make conduit and wiring connections to door release devices, sprinkler flow switches, sprinkler valve tamper switches, fire suppression system control panels, duct and ceiling smoke detectors. HVAC unit controls and telephone lines for central station reporting.

H. Automatic Detector Installation: Conform to NFPA 72.

I. Install a separate voice evacuation panel for each assembly area noted.

J. Provide ceiling mounted smoke detector for each control unit, auxiliary power supply, voice panel, remote DACT or other fire alarm control unit.

K. Additional fire alarm devices are to be added to fire alarm system for future tenant buildouts.

3.2 FIELD QUALITY CONTROL

A. Test in accordance with NFPA 72 and local fire department requirements. See paragraphs 1.7 and 1.8, this Section.

3.3 MANUFACTURER'S FIELD SERVICES

A. Prepare and start systems under direct supervision of the manufacturer's

Include services of manufacturer's technician to supervise installation, adjustments, final connections, and system testing.

C. \$\$Goordinate signal requirements by the DACT with Owner's central station \$\$provider. Verify provider is Listed monitoring company and obtain a copy of their certification for on-site display.

D. Verify two (2) separate telephone service carriers will be used for dialing.

FIRE WIRE

3.4
A. Provide fire alarm circuit conductors with insulation color coded as follows, or using colored tape at each conductor termination and in each junction box.

B. Power Branch Circuit Conductors: Black, red, white.

D. United toringowhere bump Cyt cliid te Baldokownied.

E. Signal Device Circuit: Blue (positive), white (negative).

G. Central Station Trip Circuit: Orange, orange.
F. Door Release: Gray, gray. H. Central Station Fire Alarm Loop: Black, white.

3.5 DEMONSTRATION

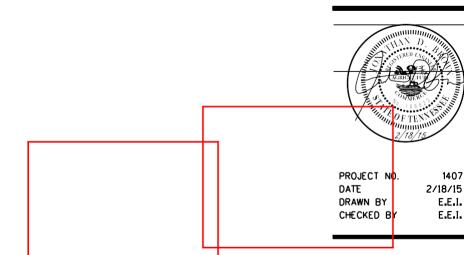
С.

A. Provide systems demonstratjon under provisions of Divisjon 1 and (all local, state, and federal) regulatory agencies having jurisdiction. Fire alarm service company must be present at all such demonstrations.

J. Junction and pull boxes: Red label B. Demonstrate normal and abnormal modes of operation, and required

At the beginning of each demonstration, furnish all required documentation and equipment required for testing the system to the regulatory agency present at

END OF SECTION



Л:18058 2015-02-19-

ADDENDUM NO. 1

DATE:

March 16, 2015

PROJECT:

Change of Use - Business to Educational

E.B. Wilson Building

Sumner County Board of Education

J+B No. 1407

ARCHITECT:

Johnson + Bailey Architects, P.C.

City Center, Suite 700 100 East Vine Street Murfreesboro, TN. 37130

The following Addendum adds to, corrects, or supersedes Contract Documents dated February 18, 2015, and is as follows:

CHANGES TO THE DRAWINGS

DRAWING A2.1

REFERENCE: DEMOLITION/RENOVATION NOTES

ADD: Note 13. Verify that all existing walls are tight to new or existing firerated gypsum board at underside of trusses at the following locations:

Jan. 101, Storage 108, Work Room 111, and Work Room 117.

DRAWING A4.1

REFERENCE: REFLECTED CEILING PLAN

ADD: New Ceiling Mounted Emergency Light Fixture to Secretary 113 side of

Door 123.

DRAWING E1.1

REFERENCE: LIGHTING FLOOR PLAN

ADD: Emergency lighting to Electrical Room 102, Mechanical Room 106, and

Passage 112 as indicated by Revision #1 dated 3/13/2015.

ADD: Exit sign to Secretary 113 side of Door 123 as indicated by Revision #1

dated 3/13/2015.

REFERENCE: POWER/SYSTEMS FLOOR PLAN

CHANGE: Receptacles in Men 118 and Women 119 to GFI receptacles as

indicated by Revision #1 dated 3/13/2015.

DRAWING E1.2

REFERENCE: EXISTING/NEW FIRE ALARM FLOOR PLAN

ADD: Smoke detectors to Work Room 111, Work Room 117, and Electrical

Room 102 as indicated by Revision #1 dated 3/13/2015.



CIFICATI PANCY OR PROJEC **COMPLETION FORM IS ISSUED**

TENNESSEE STATE FIRE N

No alterations, deletions, additions modifications of any kind are allowed t approved set without writter penniss of this office









VI:18058 2015-02-19-02

*I*1:18058 2015-02-19-02

ADDENDUM NO. 1 E.B. Wilson Building Sumner County Board of Education J+B No. 1407 March 16, 2015 Page 2

ADD:

Audible Notification Devices Dba ratings as indicated by Revision #1

dated 3/13/2015.

ADD:

Visible Notification Devices Candela ratings as indicated by Revision #1

dated 3/13/2015.

ADD:

A Fire Alarm annunciator panel to Secretaries 113 as indicated by

Revision #1 dated 3/13/2015.

DRAWING E4.1

REFERENCE: LIGHTING FIXTURE SCHEDULE and GENERAL ELECTRICAL

LEGEND

ADD:

Emergency lighting fixtures as indicated by Revision #1 dated

3/13/2015.

- END OF ADDENDUM -

THESE PLANS AND SPECIFICATIONS
ARE REQUIRED TO BE KEPT ON THE
JOB SITE UNTIL A FINAL CERTIFICATE
OF OCCUPANCY OR PROJECT
COMPLETION FORM IS ISSUED BY
THIS OFFICE.

No alterations, deletions, additions or modifications of any kind are allowed to this approved set without written permission of this office.

TENNESSEE STATE FIRE MARSHAL'S OFFICE



VI:18058 2015-02-19-02

CONTRACTOR SHALL INSURE THAT HIS OPERATIONS ARE CARRIED OUT IN COMPLIANCE WITH APPLICABLE STATE, LOCAL, AND FEDERAL CODES, STATUTES, AND REGULATIONS CONCERNING TECTION OF LIVES AND PROPERTY.

OR SHALL FURNISH, INSTALL AND MAINTAIN ALL NECESSARY WARNING DEVICES 100 OF THE WORK AND SAFETY OF WORKERS AND OTHERS INCLUDING BARRICADES, IS, AND LIGHTS DURING THE EVENING AND NIGHT.

GRADING NOTES:

TOPO SURVEY INFORMATION TAKEN FROM SURVEY PERFORMED BY DARNALL & ASSOC., LLC GALLATIN, TN. [PHONE 615-206-6942]

2. THE PURPOSE OF THIS PLAN IS TO ESTABLISH MINIMUM EROSION AND SEDIMENT CONTROL MEASURES. THIS PLAN IS NOT ENTEND TO COVER EACH AND EVERY DETAIL THOUGHOUT ALL EXCAVATION ACTIVITIES, POSITIVE DRAINAGE SHALL BE MAINTAINED AND SURFACE DRAINAGE PROVIDED GENERALLY IN THE DIRECTION OF EXISTING TOPOGRAPHY OF PROPOSED GRADING PLAN.

5. WORK SHALL PROGRESS IN SUCH A MANNER AS TO ALLOW EXISTING VEGETATION TO REMAIN AS LONG AS POSSIBLE, CONSISTENT WITH SCOPE OF WORK.

6. EXPOSED AREAS SHALL BE STABILIZED BY ESTABLISHING VEGETATIVE OR OTHER COVER TO PREVENT BARE AREAS FROM EROSION. IMMEDIATELY AFTER CONSTRUCTION, ALL AREAS SHALL PERMANENTLY PROTECTED BY ESTABLISHING A SUITABLE COVER.

ALL AREA DRAINS, CATCH BASINS, AND HEADWALLS SHALL BE PROTECTED FROM SILT BY STAKED STRAW BALES OR SILT FENCING BEING MAINTAINED AROUND ALL EDGES UNTIL A GOOD STAND OF GRASS COVERS AREAS DRAINING TO STRUCTURES.

GREEN (NAG) S 150 EROSION CONTROL BLANKET (ECB) OR EQUAL.

SPECIAL NOTES

1. CONTRACTOR SHALL VERIFY THAT THE EXACT LOCATION OF THE REAR FOOTING OF PROPOSED BUILDING IS NOT ON TOP OF EXISTING GEOTHERMAL WELLS PRIOR TO ANY FOOTING

PLANNING AND ENGINEERING NOTES

1. A REVIEW OF F.E.M.A. FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NO. 47165C0318D, EFFECTIVE DATE NOVEMBER 21, 2002, SHOWS NONE OF THIS PROPERTY TO BE WITHIN THE 100 YEAR FLOOD PLAIN.

- 3. NO SIGN IS PROPOSED FOR THIS SITE OR THIS PART OF THE SITE.
- 4. NO LIGHTING IS PROPOSED FOR THIS SITE OR THIS PART OF THE SITE.
- 6. THIS SITE SHALL COMPLY WITH ALL APPLICABLE CROSS-CONNECTION CONTROL REGULATIONS
- 7. NO RECORDED P.U.D.E.'S FOR THIS SITE.

CLEANOUT DETAIL

8. PROJECT SHALL COMPLY WITH ALL APPLICABLE CROSS-CONNECTION CONTROL REGULATION.

PROPERTY OWNER SUMMER COUNTY BOARD OF EDUCATION 695 EAST MAIN STREET GALLATIN, TENNESSEE 37066 CONTACT PERSON: TIM WILLIAMS TELEPHONE NUMBER: 604-7015

FAX NUMBER: 452-0348

■ ZONING: R-10 ■ SETBACKS; FRONT: 25' REAR: 15' SIDE: 10'

- TAX MAP NUMBER: 113M, GROUP E, PARCEL 028.00
 DEED BOOK: 185, PAGE 421
 PROPOSED USE: ADULT NIGHT CLASSES
 PROPOSED BUILDING MATERIALS: BRICK

HART ST SITE 25 HARTSVILLE PIKE REGIONAL MED. CTR.

THESE PLANS AND SPECIFICATIONS

ARE REQUIRED TO BE KEPT ON THE

JOB SITE UNTIL A FINAL CERTIFICATE

OF OCCUPANCY OR PROJECT

COMPLETION FORM IS ISSUED BY

THIS OFFICE.

GRAPHIC SCALE

(IN FEET)

LOCATION MAP

City Center 100 East Vine St. Murfreesboro Tennessee 37130 615 - 890 - 4560 Fax: 615 · 890 · 4564

WAAL & ASSOCIATES, INC. CONSULTING ENGINEERS 106-C WEST HILL DRIVE LEBANON, TENNESSEE PH:(615)443-0424; FAX: (615)443-0423 E-MAIL: PTDEWAAL@BELLSOUTH.NET

ADULT NNESSEE STATE FIRE MARSHAL'S OFFICE EDUCATION

Sumner County Board of Education

BUILDING

REVISIONS DATE

NOTES

THIS DRAWING SHALL NOT BE

EPRODUCED, PUBLISHED, OR USE:

N ANY WAY WITHOUT THE WRITTE

PERMISSION OF THE ARCHITECT.

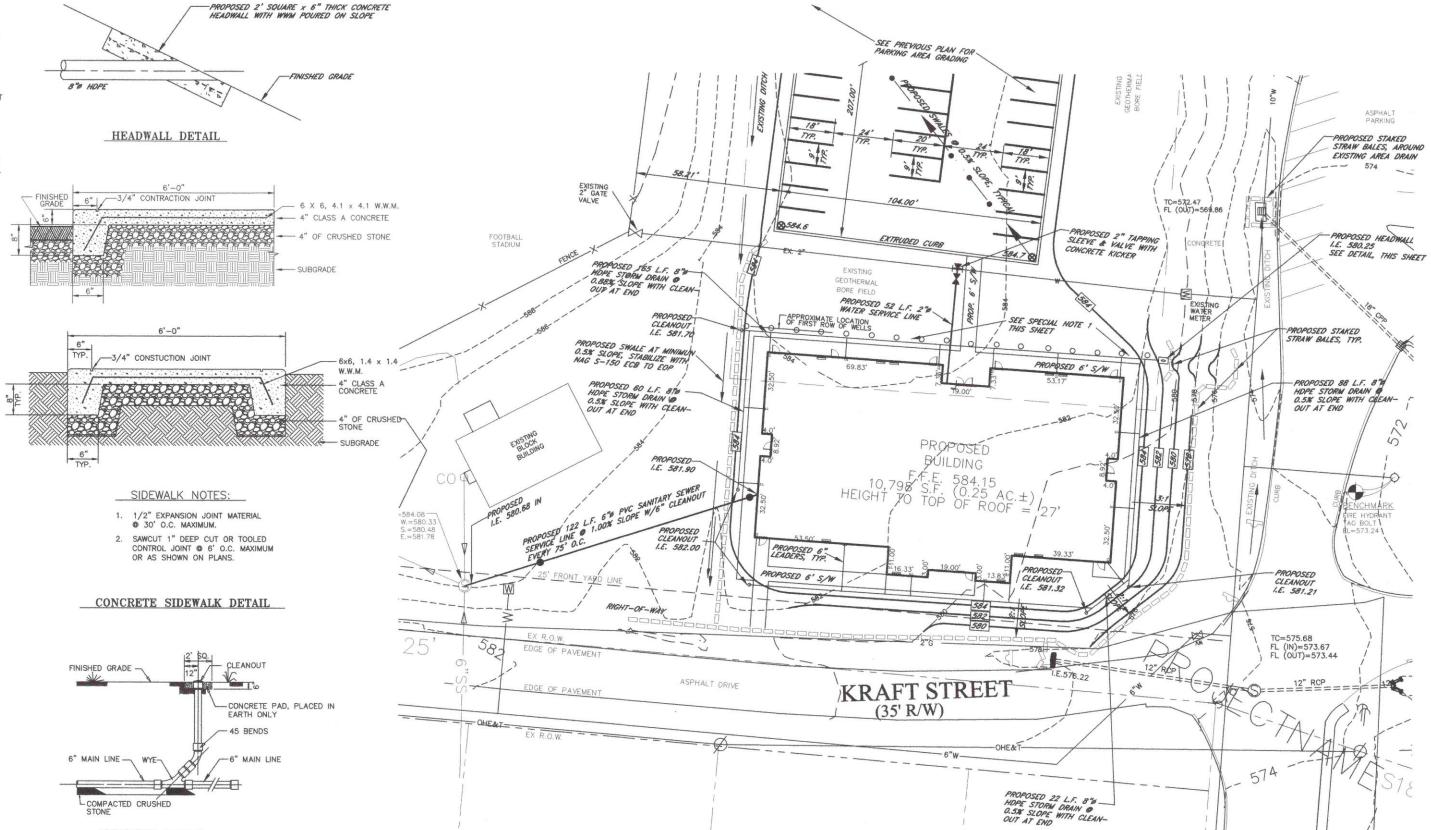


PROJECT NO. DATE DRAWN BY SCALE

08-05-04 P. Thacker 1" = 20'

SITE PLAN NOTES AND DETAILS

 \sim



5. CONTRACTOR SHALL DISPOSE OF ANY EXCESS SUITABLE MATERIAL NOT USED, ONSITE AT A LOCATION DETERMENED BY THE OWNER'S REPRESENTATIVE. AT THE OWNER'S OPTION ONLY, THE CONTRACTOR MAY BE REQUIRED TO REMOVE SOME MATERIALS OFFSITE AND DISPOSE AT HIS OWN EXPENSE. ALL UNSUITABLE MATERIAL SHALL BE PROPERLY DISPOSED OF OFFSITE.

7. NO GEOTECHNICAL INFORMATION WAS FURNISHED TO ENGINEER.

EROSION CONTROL NOTES:

 ALL WORK ON THIS SITE PERTAINING TO EXCAVATION, GRADING, AND DRAINAGE SHALL BE IN ACCORDANCE WITH THIS PLAN AND THE APPLICABLE PROVISIONS OF THE SOLUTHER AND THE APPLICABLE PROVISIONS OF THE SOUTHERN BUILDING CODES.

4. PROVISIONS SHALL BE MAINTAINED THROUGHOUT THIS PROJECT TO PREVENT ANY SEDIMENT FROM WASHING.

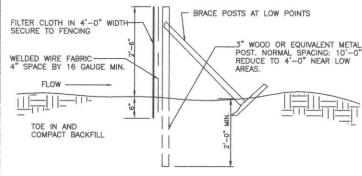
7. ALL STRAW BALES OR SILT FENCING SHALL BE STAKED AND PLACED PRIOR TO ANY CONSTRUCTION. CONTRACTOR SHALL IMMEDIATELY REPLACE ANY BALES OF FENCING THAT ARE WASHED OUT AND CLEAN UP ANY SILTATION THAT RESULTS FROM HIS WORK.

8. ALL RIPRAP SHALL BE 8" (EIGHT INCH) DIAMETER OR AS NOTED.

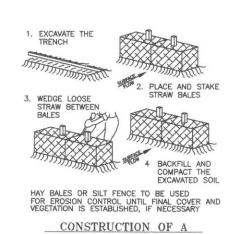
9. STAKED STRAW BALES SHALL BE USED AT ANY TEMPORARY STOCKPILIES OF MATERIALS TO PREVENT SILTATION OF AREAS OUTSIDE PROPERTY AS NEEDED.

11. ALL SWALES SHOWN IN GRASS AREAS SHALL BE STABILIZED WITH NORTH AMERICAN

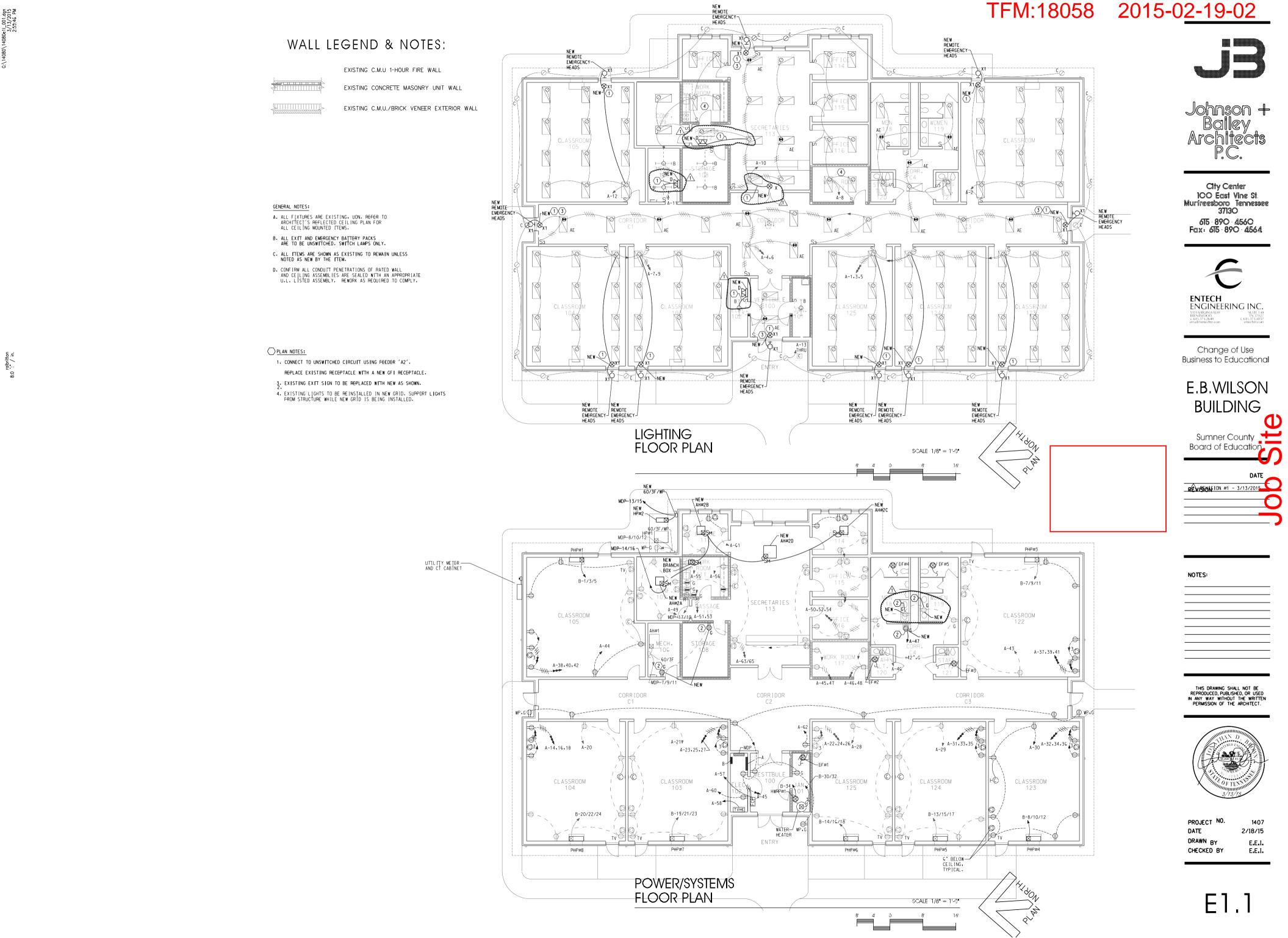
12. CONTRACTOR SHALL REMOVE ALL SEDIMENT AND EROSION CONTROLS UPON COMPLETION OF THIS PROJECT AND AFTER THE AREAS ABOVE THOSE MEASURES HAVE BEEN ADEQUATELY STABILIZED.



SILT FENCE DETAIL



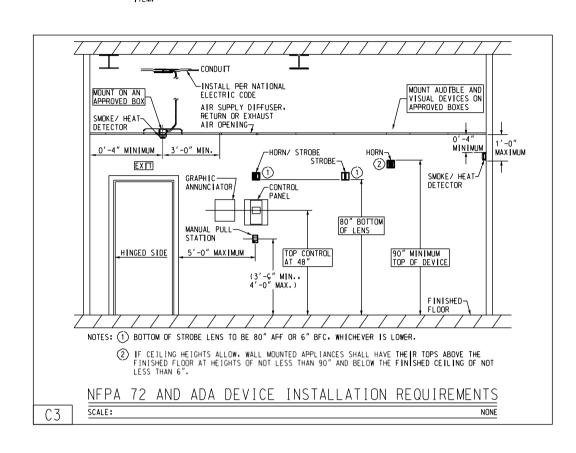
STRAW BALES BARRIER

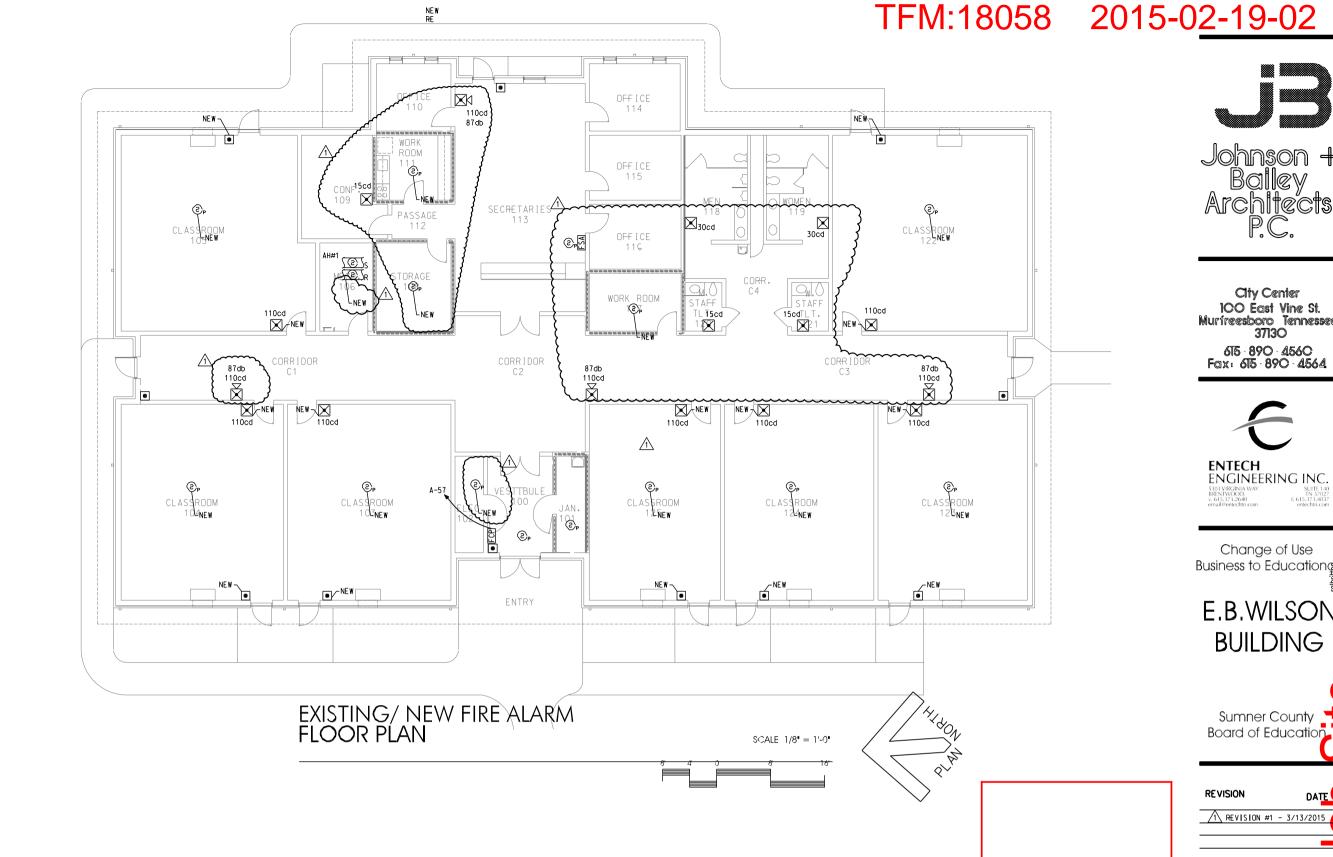


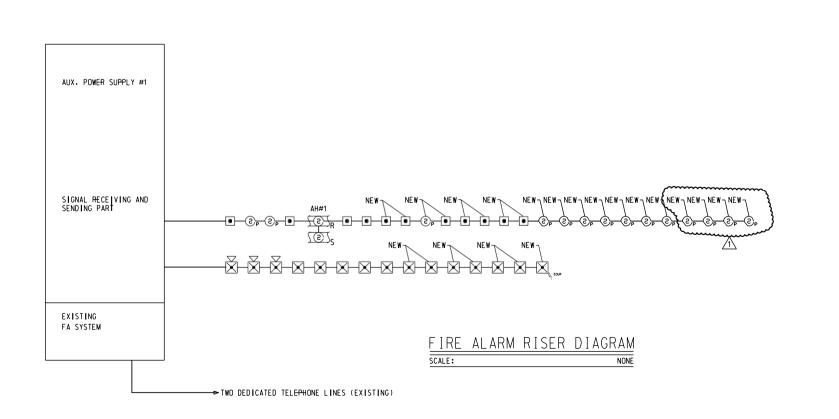
NEW RE TFM:18058 2015-02-19-02

FIRE ALARM GENERAL NOTES:

- A. ALL REQUIRED DOCUMENTATION REGARDING THE DESIGN OF FIRE PROTECTION, ALARM AND COMMUNICATION SYSTEMS AND THE PROCEDURES FOR MAINTENANCE. INSPECTION AND TESTING OF THE FIRE DETECTION, ALARM AND COMMUNICATION SYSTEMS SHALL BE MAINTAINED AT AN APPROVED, SECURED LOCATION FOR THE LIFE OF THE SYSTEM.
- B. FIRE ALARM CONTRACTOR MUST BE CERTIFIED IN ACCORDANCE WITH THE TENNESSEE ALARM CONTRACTORS LICENSING ACT OF 1991. TCA TITLE 62. CHAPTER 32.
- C. ALL AUDIBLE NOTIFICATION DEVICES ARE TO HAVE A 87db RATING AT 10 FEET. REFER TO SPECIFICATION SECTION 16721.
- D. THE FIRE ALARM CONTROL PANEL CIRCUIT DISCONNECTING MEANS SHALL HAVE A RED MARKING AND SHALL BE ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL AND SHALL BE IDENTIFIED AS 'FIRE ALARM CIRCUIT' THE LOCATION OF THE CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL UNIT. PROVIDE 'LOCK-ON' DEVICE FOR BREAKER(S) SERVING FIRE ALARM CONTROL UNITS.
- E. ALL TTEMS ARE SHOWN AS EXISTING TO REMAIN UNLESS NOTED AS NEW BY THE TTEM.







	FIRE ALARM SYSTEM LEGEND						
SYMBOL	DESCRIPTION	MTG. HGT.					
•	FIRE ALARM MANUAL PULL STATION						
⊕ _{R/F}	FIRE ALARM CEILING MOUNTED HEAT DETECTOR						
② _P	FIRE ALARM CEILING MOUNTED SMOKE DETECTOR						
[O]	FIRE ALARM DUCT MOUNTED SMOKE DETECTOR						
$\boxtimes \lozenge$	FIRE ALARM FLASHING LIGHT/HORN						
\boxtimes	FIRE ALARM FLASHING LIGHT						
FCP	FIRE ALARM CONTROL PANEL						
FSA	FIRE ALARM ANNUNCIATOR PANEL						
Ŷ	FIRE ALARM DOOR HOLDER						
⊱ &–\$	FIRE ALARM FLOW DETECTOR/SWITCH						
<u> </u>	FIRE ALARM TAMPER DETECTOR/SWITCH						
⊱.№ –5	FIRE ALARM POST INDICATOR VALVE						
(R)	FIRE ALARM REMOTE INDICATOR LIGHT & TEST SWITCH - CEILING MOUNTED						

WALL LEGEND & NOTES

EXISTING C.M.U 1-HOUR FIRE WALL

EXISTING CONCRETE MASONRY UNIT WALL EXISTING C.M.U./BRICK VENEER EXTERIOR WALL



City Center 100 East Vine St. Murireesboro Tennessee 37130 615 - 890 - 4560 Fax: 615 - 890 - 4564



Change of Use Business to Educationals

E.B.WILSON[®] BUILDING



DATE REVISION 1 REVISION #1 - 3/13/2015

NOTES:

THIS DRAWING SHALL NOT BE REPRODUCED, PUBLISHED, OR USED IN ANY WAY WITHOUT THE WRITTEN PERMISSION OF THE ARCHITECT.



PROJECT NO. DATE

DRAWN BY CHECKED BY

2/18/15

E.E.I.

E1²

	TYPE	MANUF ACTURER	CATALOG NUMBER	VOL T	L OTY	AMPS TYPE	MOUNTING	REMARKS
**	Α	COLUMBTA	ST824-432G-FSA12.125-EB8-120	120	4	32W T8	RECESSED	2X4 LAY-IN
		METALUX						
		L IGHTOL IER						
**	AE	COLUMBTA	ST824-432G-FSA12.125-EB-120-EM WITH BODINE B50	120	4	32W T8	RECESSED	2X4 LAY-IN WITH BATTERY PACK
		METALUX						
		L IGHTOL IER						
**	В	COLUMBI A	CS4-232-EB-CSWG4	120	2	32W T8	SURF ACE	4' STRIP
		METALUX						
		L IGHTOL IER						
**	С	PRESCOL ITE	CFTG32EB-STF602-BG	120	1	42W TRT	RECESSED	PL DOWNLIGHT
		HALO						
		CALCUL ITE						
*	\bigcap	DUAL LITE	EV-2-I	120	\sim	INCL.	SURF ACE	LED EXIT
		SURE—L ITES						
		L IGHTOL IER						
*	х	DUAL LITE	SE-S-R-W-E-I	120	-	INCL.	SURF ACE	LED EXIT
		SURE—L ITES						
.		L IGHTOL IER						
*	X1	DUAL LITE	EVC-U-R-W-D4-O-EVO-D-B	120	<u> </u>	LED'S	SURF ACE	EXIT WITH EMERG. REMOTE HEADS/BATTERY
		SURE—LITTES						
		L IGHTOL IER						
**	8	DUAL LITE	SESRWE	120	-	INCL.	SURF ACE	LED EXIT
		SURE—LITTES						
		LIGHTOLIER						

NOTE: ALL BALLASTS MUST BE ADVANCE, MOTOROLA OR GENERAL ELETRIC * NEW ** EXISTING

GENERAL NOTES AND SPECIFICATIONS

- A. GUARANTEE ALL MATERIALS AND WORKMANSHIP FOR ONE YEAR FROM DATE OF ACCEPTANCE.
 - B. COMPLY WITH THE NEC 2011, STATE, AND LOCAL CODES.
 - C. USE ONLY COPPER CONDUCTORS AS NOTED. MINIMUM SIZE #12 AWG. USE TYPE THHN, UON. ALL CIRCUITS SHALL BE COLOR CODED.
- D. USE MINIMUM ½" CONDUIT. USE ¾" MINIMUM GALVANIZED COATED WITH ASPHALTUM OR SCHEDULE 40 PVC IN CONCRETE BELOW GRADE. FOR PVC. TRANSITION TO RIGID BEFORE EMERGING FROM BELOW. USE EMT WHERE CONCEALED IN WALLS AND CEILINGS. USE RIGID IN SLAB AND UNDERGROUND.

 E. USE STAINLESS STEEL DEVICE COVER PLATES, UON.
- F. ALL ELECTRICAL EQUIPMENT SHALL BE UL LISTED, COMMERCIAL GRADE.
- G. USE HUBBELL WIRING DEVICES AS FOLLOWS:

SWITCHES - 15 AMP, #|20|-|, |202-|, |203-| SWITCHES - 20 AMP, #|22|-|, |222-|, |223-|, |224-| SWITCHES - MOTOR STARTERS, USE SOUARE D CLASS 2510 RECEPTACLES - 15 AMP, #5252-|, 5262-| FOR GENERAL PURPOSES. RECEPTACLES - 20 AMP, SG63H-| FOR SAFETY TYPE. RECEPTACLES - GFC!, GF5262-| (|5A), GF5362-| (20A). ALL WIRING MUST BE IN CONDUIT.

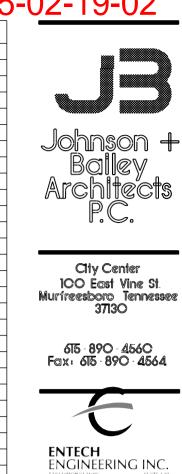
- EOUIPMENT OUTSIDE MUST BE WEATHERPROOF. USE HEAVY DUTY DISCONNECT SWITCHES.
- J. CONDUIT OUTSIDE MUST BE GALVANIZED STEEL OR PVC. AS NOTED
- K. USE 6' MAXIMUM LENGTH OF FLEXTBLE CONDUIT TO FIXTURES. M. USE BUSS TYPE LPS OR LPN FUSES FOR MOTORS AND EQUIPMENT. L. UREIMONUSS ትርሕሃትቤ ለክፕና ሀባት (ከተህት እንደመደብ ተስላዩቤ ጋልካጭ ጋዥና እና PDMONTE GUNLOSEMOS EXISTING WIRING UPON COMPLETION OF WORK.
- O. USE "PATE" PIPE SEALS FOR CONDUIT THROUGH ROOF. USE SEALTITE

 N. ELEXIBLE CONDUIT FOR EXTERIOR FOULPMENT, USE ME SEALTITE
 EDST FRENT ON DESCRIPTION OF THE STANDARD SEALTING FOR THE SEALTING FOR THE STANDARD SEALTING FOR THE SEALT
- O. DO NOT INSTALL MORE CONDUCTORS IN A BRANCH CIRCUIT HOMERUN THAN SHOWN.
 P. PANELBOARDS ARE EXISTING CUTLER HAMMER, UON. THE ELECTRICAL CONTRACTOR
 R. AGLIWORATGHAEKIBEINOORD#NAWEDNW#TBROWNERSSR#DD#RSDWTATIVE.
- S. INSTALL CONTROL WIRING IN MINIMUM ½" CONDUTT FOR ALL HVAC UNITS TO THERMOSTATS AND ROOFTOP UNITS, ETC. SEE MECHANICAL CONTROL AND MANUFACTURER'S DRAWINGS.
- T. USE SEALTITE FLEXIBLE CONDUIT FOR EXTERIOR EQUIPMENT.
- U. FLUORESCENT LAMP EMERGENCY POWER SUPPLY SHALL BE ONE LAMP
 AS SCHEDULED ON THE PLANS PROVIDING 1100-1400 LUMENS, MINIMUM.
 THE BATTERY SHALL BE A NICKEL CADMIUM TYPE. RATED FOR A TEN
 YEAR LIFE. INCLUDE TEST SWITCH AND AC ON INDICATOR LIGHT,
 INSTALLED TO BE OPERABLE AND VISIBLE FROM THE OUTSIDE OF AN
 ASSEMBLED LUMINAIRE.

TFM:18058

2015-02-19-02

SYMBOL DESCRIPTION	MTG. HGT.
C CEILING OUTLET, SURFACE FIXTURE	
CEILING OUTLET, RECESSED FIXTURE	
CEILING OUTLET, RECESSED FIXTURE W/BATTERY BACK UP	
CH BRACKET OUTLET	
RECESSED FLUORESCENT LIGHTING FIXTURE	
FLUORESCENT STRIP LIGHT FIXTURE	
AREA OR STREET LIGHTING FIXTURE	
⊗ EXIT LIGHT, ARROWS AS SHOWN, ON LIFE SAFETY CIRCUIT	
S SINGLE POLE SWITCH	48" AFF
S ₃ THREE—WAY SWITCH	48" AFF
DUPLEX GROUNDING RECEPTACLE	18" AFF
DUPLEX GROUNDING RECEPTACLE (MOUNTED ABOVE COUNTER)	ABC
DOUBLE DUPLEX GROUNDING RECEPTACLE	18" AFF
TV RECEPTACLE FOR TELEVISION	6"BLW CLG
① JUNCTION OR PULL BOX	
MOTOR, E.F. DENOTES EXHAUST FAN	
SM MANUAL MOTOR STARTER OR RELAY CONTROL	
MAGNETIC MOTOR STARTER OR TERMINAL CONNECTION	
SAFETY SWITCH, WP INDICATES NEMA 3R, FUSED, U.O.N.	
LIGHTING OR POWER PANEL	
MAIN OR SUB-DISTRIBUTION PANEL	
TC TIME CLOCK - SEE SPECS	
C CONTACTOR - SEE SPECS	
PHOTO-ELECTRIC SWITCH - AIM NORTHEAST, SEE SPECS	
CONDUIT, CONCEALED IN SLAB OR BELOW FLOOR/GRADE	
CONDUIT. EXPOSED	
CONDUIT, TURNING UP	
WP WEATHERPROOF	
G GROUND FAULT CURRENT INTERRUPTING	
AFF ABOVE FINISHED FLOOR	
UON UNLESS OTHERWISE NOTED	
GC GENERAL CONTRACTOR	
MC MECHANICAL CONTRACTOR	
EC ELECTRICAL CONTRACTOR	
EDF ELECTRIC DRINKING FOUNTAIN	
A.C.U. AIR CONDITIONING UNIT	
FBO FURNISHED BY OTHERS	
TTB TELEPHONE TERMINAL BOARD	
TVSS TRANSIENT VOLTAGE SURGE PROTECTOR	
MULTI USE OUTLET FOR VOICE, DATA, VIDEO (1"C. TO ABOV	CEILING) 18" AFF
MULTI USE OUTLET FOR VOICE, DATA, VIDEO ABOVE COUNTER	(1"C.TO ABOVE CEILING) ABC
TVHE TELEVISION HEAD—END EQUIPMENT	
S SPEAKER, CEILING MOUNTED	
CLOCK OUTLET, WALL MOUNTED	¢'-8" AFF
⇒R RANGE OUTLET	8" AFF
EMERGENCY LIGHT WALL MOUNTED AT 7'-6" AFF, UON	·····





Change of Use

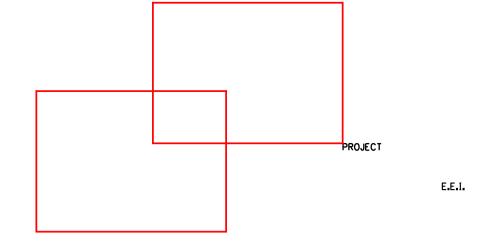
Rusiness to Educational

1 REVISION #1 - 3/13/2015 NOTES:

		BRANCH CIRCUITING LEGEND
→	A-1	ONE 1-POLE CKT HOMERUN TO PANEL A
	A-1.3	TWO 1-POLE CKT HOMERUNS TO PANEL A
-	A-1.3.5	THREE 1-POLE CKT HOMERUNS TO PANEL A
→	A-1/3	ONE 2-POLE CKT HOMERUN TO PANEL A
	A-1/3.2/4	TWO 2-POLE CKT HOMERUNS TO PANEL A
	A-1/3/5	ONE 3-POLE CKT HOMERUN TO PANEL A
NOTE: ALL	MUL∏-WIRE 8	BRANCH CIRCUITS TO COMPLY WITH 2008 NEC 210.4



CHECKED BY



E4.1