EAST HICKMAN HIGH SCHOOL
AGRICULTURAL/VOCATIONAL EDUCATION BUILDING

PROJECT 911 ADDRESS:
7709 TN-7
LYLES, TENNESSEE 37098
HICKMAN COUNTY, TENNESSEE

OWNER:
HICKMAN COUNTY SCHOOLS
CENTERVILLE, TENNESSEE

DESIGN TEAM:

ARCHITECTURAL:
LYLE COOK MARTIN ARCHITECTS
310 FRANKLIN ST
CLARKSVILLE, TENNESSEE 37040

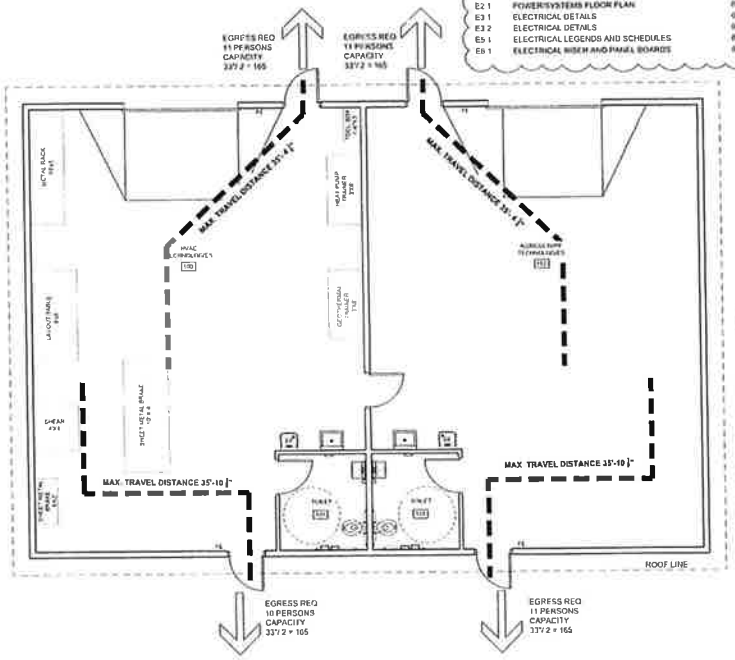
STRUCTURAL:
K&S STRUCTURAL ENGINEERS
P.O. BOX 3033/124 HILLCREST DR
CLARKSVILLE, TENNESSEE 37043

CIVIL:
SOUTHERN CONSULTING
1208 HIGHWAY 47 EAST
DICKSON, TENNESSEE 37055

MECHANICAL, ELECTRICAL, PLUMBING:
ENTECH ENGINEERING
2948 SIDCO DR
NASHVILLE, TENNESSEE 37204

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1 / A1.0 LIFE SAFETY PLAN
SCALE 3/16"=1'-0"

GENERAL NOTES:

1. Documentation of Existing Conditions: It is the responsibility of the Contractor to document existing conditions concerning existing damage that could be construed to have been caused by construction operations. This may be by methods of the Contractor's choosing, either video or digital photography. All conditions must be documented and filed with the Architect prior to construction.
2. Provide surface mounted bracketed fire extinguishers, indicated with "FE" on plan- 4 (four) total.

LEGEND OF ABBREVIATIONS:

APPROX	APPROXIMATE
REQ	REQUIRED
REF.	REFERENCE TO
CL	CENTER LINE
O.C.	ON CENTER
FE	FIRE EXTINGUISHER
MAX.	MAXIMUM
OPP. HAND	OPPOSITE HAND
TYP.	TYPICAL
SIM.	SIMILAR
GYP	GYPSUM
SF	SQUARE FOOT
GB	GYPSUM WALL BOARD
LVT	LUXURY VINYL TILE
PT	PAINT SYSTEM
RCB	RESILIENT (VINYL/RUBBER) COVE BASE

*NOTE ADDITIONAL INDIVIDUAL ABBREVIATIONS ARE LISTED PER DRAWING SHEET AND PER CONSULTANT DRAWINGS. FOR EXAMPLE, REFERENCE ABBREVIATIONS ON SHEET A3.0 FOR DOOR SCHEDULE, ROOM FINISH AND TOILET ACCESSORY ABBREVIATIONS, ETC.

CODE INFORMATION

PROJECT DESCRIPTION:
Structure includes wood-framed, single-story structure with wood truss roof system over slab on grade foundation. Contents include two classrooms with toilet rooms in each.

REGULATORY REQUIREMENTS:
The 2012 International Building Code and the 2012 Life Safety Code are the governing construction codes. The construction is Type - IIIB. The occupancy type shall be Educational. Accessibility is governed by the 2010 ADA.

APPLICABLE CODES AND REGULATIONS:
2012 International Building Code
(excluding Ch. 11 & Sec. 3411)
2012 International Energy Conservation Code
2012 International Mechanical Code
2017 National Electric Code, NFPA 70
2012 International Plumbing Code
2012 International Fire Code
2012 NFPA 101 Life Safety Code
2010 ADA Standards for Accessible Design

BUILDING DEPARTMENT:
Director: Robert Atkinson
114 N. Central Avenue, Suite 101
Centerville, Tennessee 37033

HICKMAN COUNTY FIRE DEPARTMENT:
Fire Chief: Kevin Baxter
7669 TN-7
Lyles, Tennessee 37098

IECC CLIMATE ZONE: 4A

OCCUPANCY TYPE: E-EDUCATION
OCCUPANCY FREQUENCY: 7:00 AM - 5:00 PM M-F

CONSTRUCTION TYPE: V-B NONPROTECTED, NONSPRINKLERED
OCCUPANCY SEPARATION: N *(PER IBC TABLE 508.4)*
MAXIMUM ALLOWABLE AREA: 9,500 SQ. FT.

ACTUAL BUILDING AREA:
GROUP E: 2,142 SQ. FT.
TOTAL BUILDING AREA 2,400 SQ. FT.

MAXIMUM ALLOWABLE OCCUPANCY:

EDUCATION-
VOCATIONAL ROOM 2,142 SQ.FT./50 NET= 43 OCCUPANTS
TOTAL MAXIMUM OCCUPANTS 43 OCCUPANTS

MAXIMUM ALLOWABLE HEIGHT: 40'-0" - GROUP-E - 1 STORIES *(TABLE 503 IBC)*

ACTUAL HEIGHT: 21'10-1/2" - 1 STORY

MAXIMUM ALLOWABLE EXIT TRAVEL DISTANCE: 200'-0" *(TABLE 1016.2 IBC)*

MINIMUM INSULATIVE VALUES:
(PER IECC TABLES C402.1.3, C402.1.4)

ROOF INSULATION	R-38
WALLS ABOVE GRADE	R-19
SLAB ON GRADE FLOOR	NR
ENTRANCE DOORS	U-0.37
GARAGE DOORS	U-0.31

LOADING:
See Structural Drawings for all loading criteria

FIRE RESISTANCE RATING
0 PER TABLE 601

FIRE SEPARATION DISTANCE:
- ASSUMED IMAGINARY LOT LINE BETWEEN BUILDINGS - TABLE 602
- FIRE SEPARATION DISTANCE FROM PROPOSED BUILDING TO ADJACENT EXISTING GREEN HOUSE BUILDING = 20'-6" (10'-3" CLEAR EACH SIDE OF IMAGINARY FSD LINE)
- PER TABLE 602 & SECTION 705.5 CONSTRUCTION TYPE VB FIRE SEPARATION DISTANCE = 10'-0" ≤ FIRE SEPARATION DISTANCE <30'-0" ACTUAL IMAGINARY FSD LINE= 10'-3" (RATING NOT REQUIRED)

WALL LEGEND

EXTERIOR WALL - 2x6 WOOD STUD FRAMING

INTERIOR STUD WALL (2X6 WOOD STUD FRAMING WITH 3 ½" SOUND BATT INSULATION AT CENTER WALL, 2X4 WOOD STUD FRAMING WITH 3 ½" SOUND BATT INSULATION AT TOILET ROOM WALLS & CEILING FRAMING)

LYLE·COOK·MARTIN
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EAST HICKMAN HIGH SCHOOL
AGRICULTURAL/VOCATIONAL
EDUCATION BUILDING
LYLES, TENNESSEE
TITLE SHEET & LIFE SAFETY PLAN

Project No:	1402.1
Issue Date:	07/18/2025
Drawn By:	CJC
Revision Date:	09.05.2025
Revision Date:	
Revision Date:	

T1.0

EAST HICKMAN HIGH SCHOOL AGRICULTURAL/VOCATIONAL EDUCATION BUILDING

HICKMAN COUNTY BOARD OF EDUCATION

911 ADDRESS 7700 TN-7 HIGHWAY

LYLES, HICKMAN COUNTY, TENNESSEE

September 05, 2025



PROPERTY INFORMATION

OWNER/DEVELOPER: HICKMAN COUNTY BOARD OF EDUCATION
931-729-3391
115 MURPHREE AVE
CENTERVILLE, TENNESSEE 37033

ENGINEER: Southern Consulting, Inc.
TRENT SMITH, PE
615.740.8777
TSMITH@SOUTHERN-TN.COM
1208 HIGHWAY 47E
DICKSON, TENNESSEE 37055

DATUM INFORMATION

STATE PLANE COORDINATE SYSTEM	TENNESSEE
VERTICAL DATUM	NAVD 88
GEODETIC DATUM	NAD 83
GEOID MODEL	GEOID 12A

FEDERAL FLOOD NOTE

THIS PROPERTY IS NOT LOCATED WITHIN THE 100 YEAR FLOODPLAIN AS DESIGNATED ON CURRENT FEDERAL EMERGENCY MANAGEMENT AGENCY MAP NO. 47081C0095D, EFFECTIVE DATE 7/16/2008

Sheet List Table	
Sheet Number	Sheet Title
C0.0	TITLE SHEET
C1.0	DEMOLOTION PLAN
C2.0	SITE & UTILITY PLAN
C3.0	GRADING PLAN
C4.0	DETAIL SHEET

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TRENT B. SMITH — STATE OF TENNESSEE

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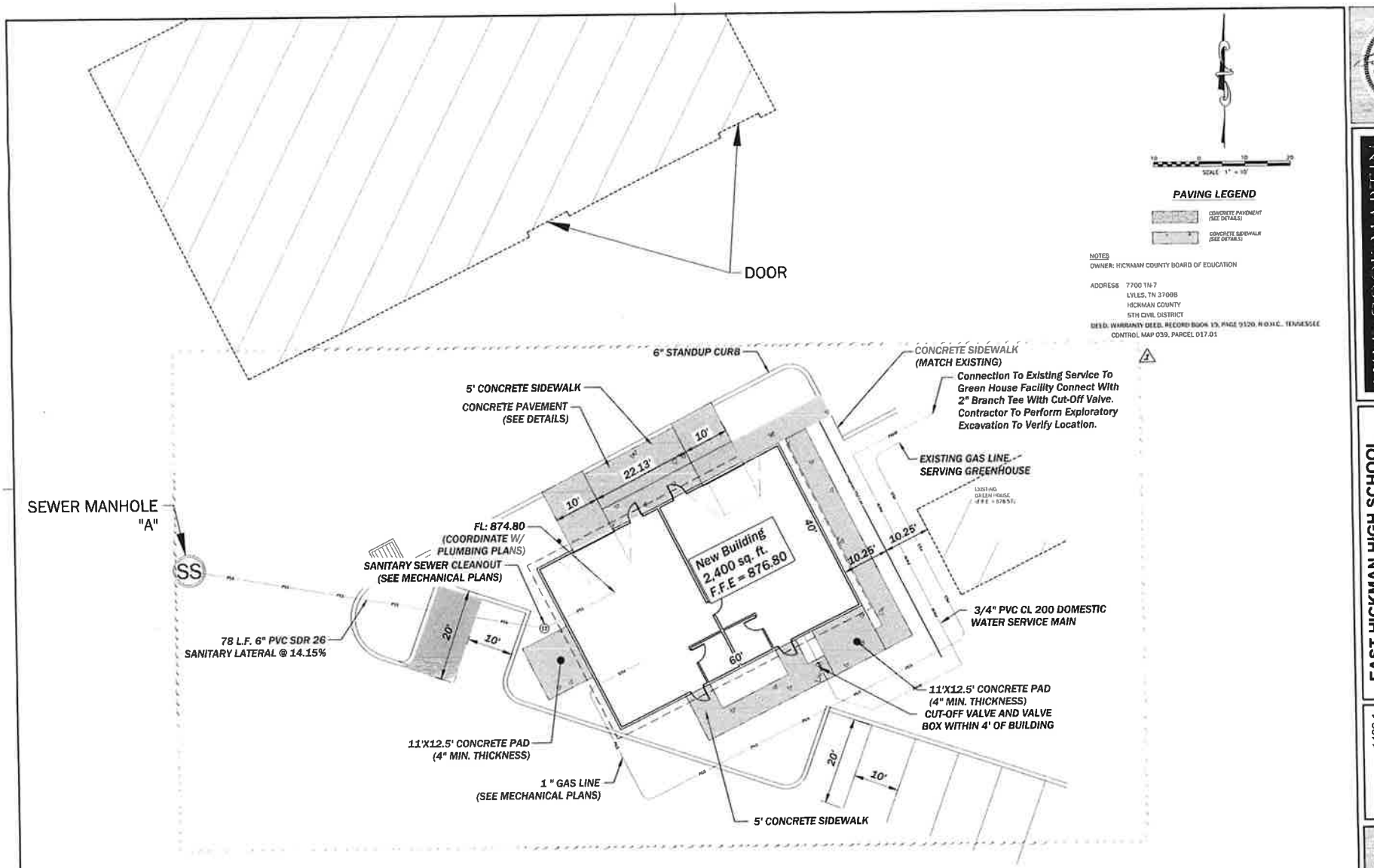
EAST HICKMAN HIGH SCHOOL
AGRICULTURAL/VOCATIONAL
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LYLES, TENNESSEE

TITLE SHEET

Project No.	1402.1
Issue Date:	07/18/2025
Drawn By:	DKW
Revision Date:	09/05/2025
Revision Date:	
Revision Date:	

C0.0

DEMOLITION NOTES:
1 THE CONTRACTOR SHALL NOTIFY THAT THIS SITE PLAN INTENDED TO PROVIDE AN OVERALL VIEW OF THE EXTENT OF DEMOLITION. IT DOES NOT NOT OR CONSTITUTE ALL ITEMS TO BE DEMOLISHED IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW THE PLANS AND PROJECT SITE AND DETERMINE ALL ITEMS TO BE DEMOLISHED FOR THE PROJECT TO BE COMPLETED AS INDICATED. NO CLAIMS SHALL BE CONSIDERED AFTER THE PROJECT BIDS RELATED TO THE DEMOLITION AREA.
2 DURING DEMOLITION, ANY EXISTING LANDSCAPING, FENCING, ETC. TO BE MAINTAINED SHALL BE PROTECTED AND IF DAMAGED OR REMOVED SHALL BE REPLACED WITH LIKE MATERIALS AS APPROVED BY THE OWNER'S REPRESENTATIVE. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
3 ALL DEMOLITION, CLEARING, AND GRUBBING SHALL BE REMOVED FROM THE PROJECT SITE
4 NO BURNING OF PERISHABLE MATERIAL WILL BE PERMITTED
DEMOLITION LEGEND
SITE DEMOLITION
EXISTING CURB & GUTTER DEMOLITION
APPROXIMATE LIMITS OF DISTURBANCE
SCALE: 1" = 10'
DOOR
SEWER MANHOLE "A"
SS
Southern Consulting
Engineering • Surveying • Planning
Engineering Services
Surveying Services
Tennessee Firm Certificate No. 3065
(615) 790-8777 (T) (615) 441-6776 (F)
EAST HICKMAN HIGH SCHOOL
AGRICULTURAL/VOCATIONAL
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DEMOLITION PLAN
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TROY B. SMITH
STATE OF TENNESSEE
REGISTERED
ARCHITECT
Project No 1402.1
Issue Date 07/18/2025
Drawn By DKW
Revision Date 09/05/2025
Revision Date
Revision Date
C1.0



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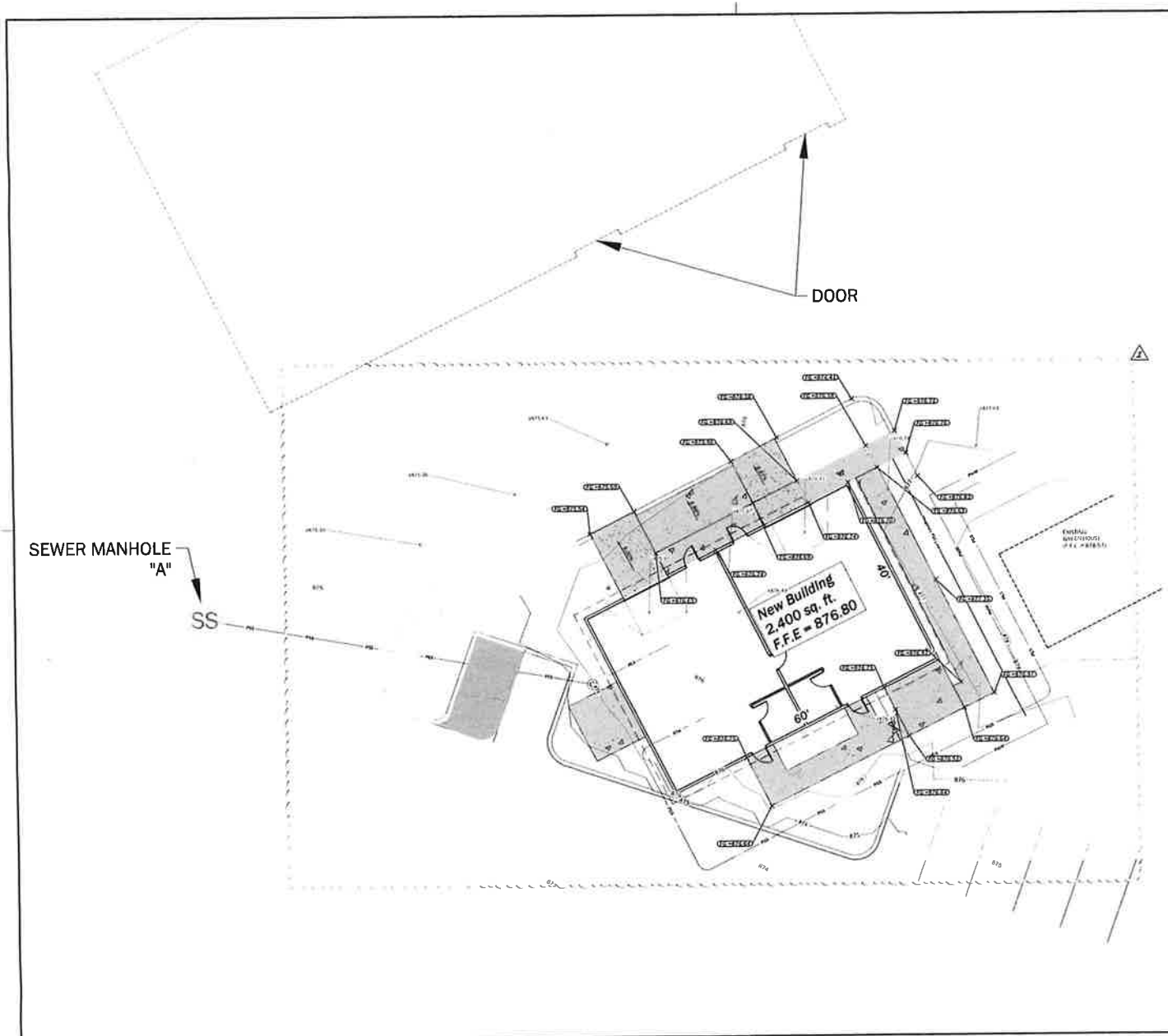
EAST HICKMAN HIGH SCHOOL
AGRICULTURAL/VOCATIONAL EDUCATION BUILDING
LYLES, TENNESSEE

SITE & UTILITY PLAN

Project No	1402.1
Issue Date	07/18/2025
Drawn By	DKW
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Revision Date	

C2.0

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TRENT B. SMITH
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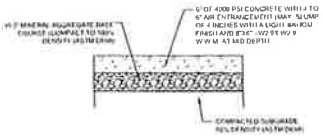
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LYLES, TENNESSEE

GRADING PLAN

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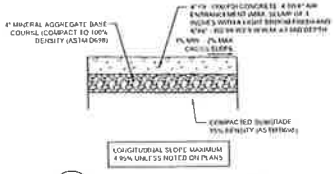
C3.0

THESE DETAILS ARE SUBJECT TO CHANGE ACCORDING TO CONDITIONS ON THE SITE AND RECOMMENDATIONS OF THE SOILS REPORT. ALL DISCREPANCIES ARE TO BE REPORTED IMMEDIATELY TO THE GEOTECHNICAL ENGINEER

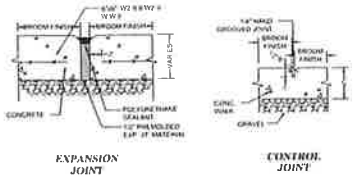


1 C4.0 **CONCRETE PAVEMENT SECTION**
NOT TO SCALE

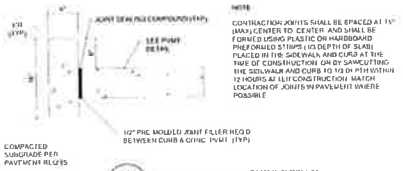
THESE DETAILS ARE SUBJECT TO CHANGE ACCORDING TO CONDITIONS ON THE SITE AND RECOMMENDATIONS OF THE SOILS REPORT. ALL DISCREPANCIES ARE TO BE REPORTED IMMEDIATELY TO THE GEOTECHNICAL ENGINEER



2 C4.0 **CONCRETE SIDEWALK SECTION**
NOT TO SCALE



3 C4.0 **SIDEWALK JOINTS**
NOT TO SCALE



4 C4.0 **6"X16" STAND UP CURB DETAIL**

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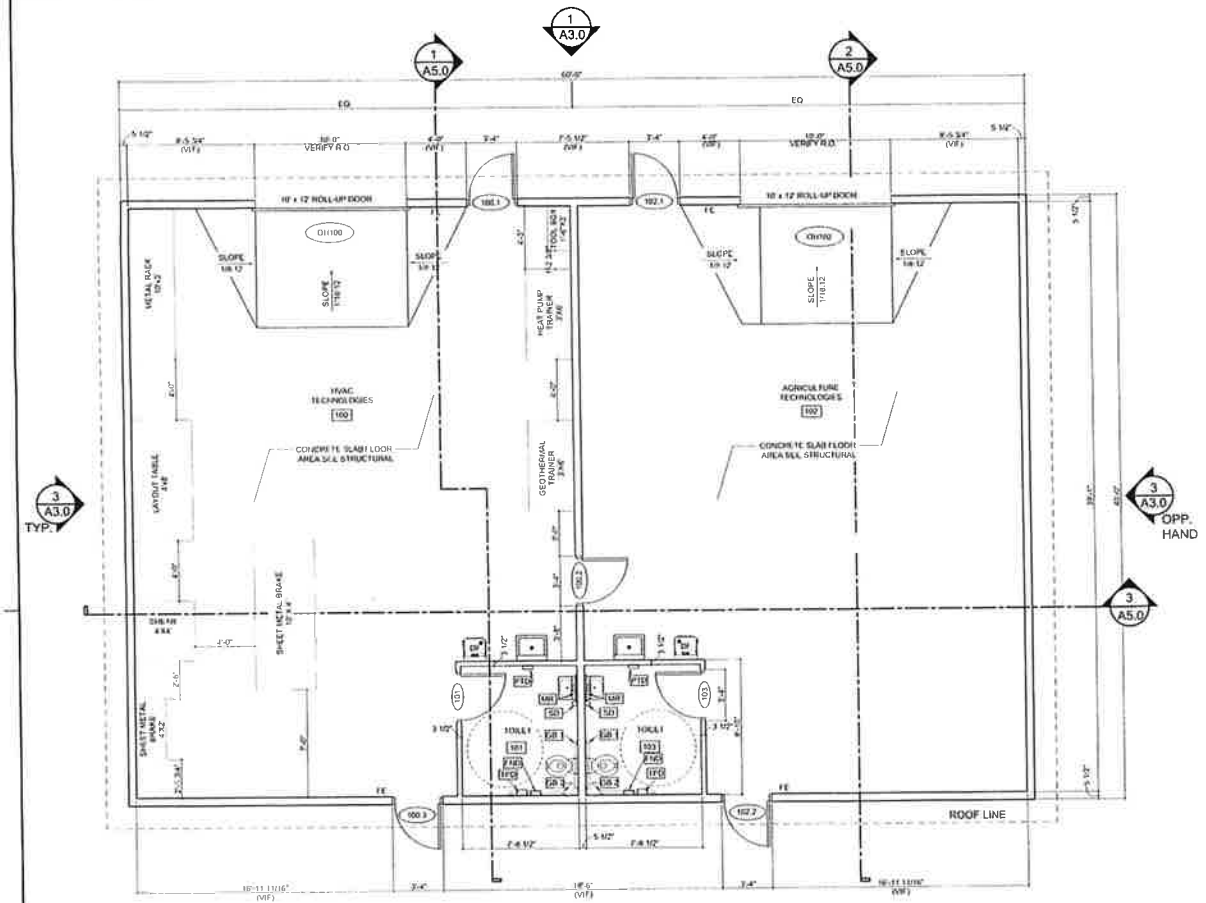
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DETAIL SHEET

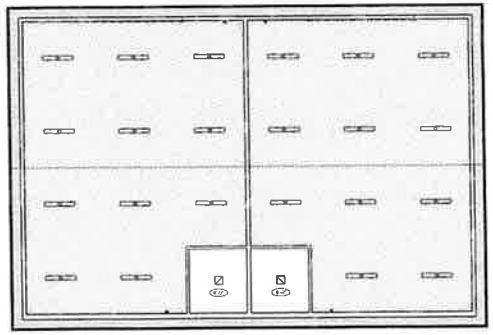
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C4.0
SHEET NO.



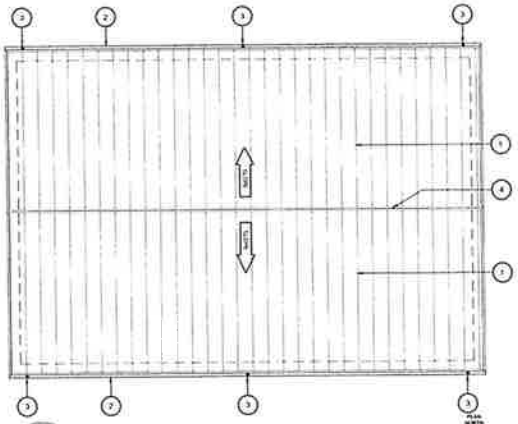
1 A2.0 FLOOR PLAN

SCALE 1/4"=1'-0"



2 A2.0 REFLECTED CEILING PLAN

SCALE 1/8"=1'-0"



3 A2.0 ROOF PLAN

SCALE 1/8"=1'-0"

GENERAL NOTES

1. FOR TOILET ACCESSORIES AND MOUNTING HEIGHTS REF. A3.0
2. UTILITY SINK TO BE IN EACH TECHNOLOGY SPACE. ALLOW FOR 1'-4" CLEARANCE FROM WALL TO ℄ OF FIXTURE AND A MINIMUM OF 2'-0" BETWEEN OUTSIDE EDGE OF WATER COOLER AND OUTSIDE EDGE OF FIXTURE.

WALL LEGEND

EXTERIOR WALL - 2x6 WOOD STUD FRAMING

INTERIOR STUD WALL (2X6 WOOD STUD FRAMING WITH 3 ½" SOUND BATT INSULATION AT CENTER WALL, 2X4 WOOD STUD FRAMING WITH 3 ½" SOUND BATT INSULATION AT TOILET ROOM WALLS & CEILING FRAMING)

CEILING LEGEND

PAINTED PLYWOOD CEILING

EXPOSED CEILING

CORRUGATED METAL SOFFIT

LINEAR SURFACE MOUNTED LIGHT FIXTURE

SURFACE MOUNTED LIGHT FIXTURE

EMERGENCY EGRESS WALL MOUNTED LIGHT FIXTURE

KEY NOTES TO ROOF PLAN

1. STANDING SEAM METAL ROOF SYSTEM, COLOR TO BE GALVALUME
2. PRE-FINISHED CONTINUOUS METAL GUTTER
3. PRE-FINISHED METAL DOWNSPOUTS
4. METAL RIDGE CAP TO MATCH ROOF PANEL WITH CLOSURE PANELS

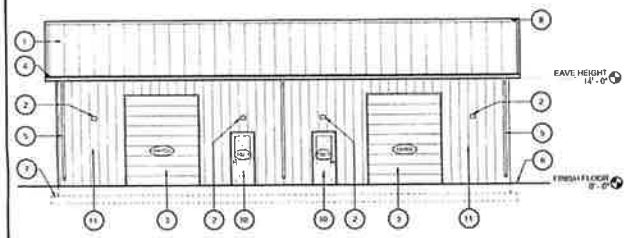
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FLOOR PLAN, REFLECTED CEILING & ROOF PLAN

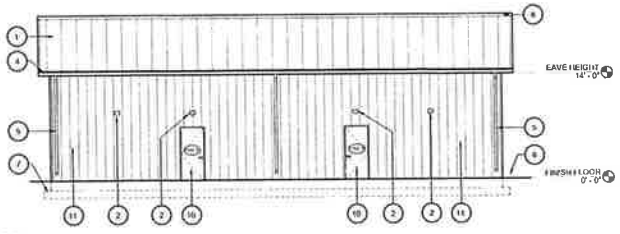
Project No	1402.1
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Revision Date	

A2.0



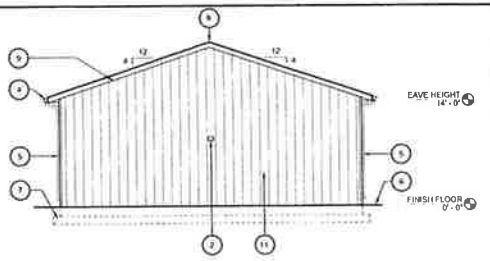
1 A3.0 BUILDING ELEVATION

SCALE 1/8"=1'-0"



2 A3.0 BUILDING ELEVATION

SCALE 1/8"=1'-0"



3 A3.0 BUILDING ELEVATION

END WALL, TYP.

SCALE 1/8"=1'-0"

KEY NOTES TO EXTERIOR ELEVATIONS

1. PRE-FINISHED STANDING SEAM METAL ROOFING SYSTEM
2. EXTERIOR LIGHT FIXTURE - 9'-0" AFF. REF. ELECTRICAL
3. PREFINISHED INSULATING ROLL UP DOOR SYSTEM
4. PREFINISHED METAL GUTTER OVER PREFINISHED METAL FASCIA - RAKE TRIM SIMILAR
5. 5" x 4" PRE-FINISHED METAL DOWNSPOUT.
6. CONCRETE SIDEWALK &/OR GRADE.
7. BELOW GRADE FOUNDATION SYSTEM
8. PRE-FINISHED METAL RIDGE CAP
9. PRE-FINISHED BREAK METAL FASCIA
10. PAINTED EXTERIOR METAL DOOR & FRAME
11. PREFINISHED METAL SIDING SYSTEM OVER COMMERCIAL GRADE AIR AND MOISTURE BARRIER (WRAP) OVER ½" PLYWOOD SHEATHING PROVIDE SYSTEM COMPATIBLE PREFINISHED METAL FLASHING AT BOTTOM OF METAL PANEL SYSTEM

DOOR SCHEDULE

DOOR NO	DOOR SIZE	MAT.	TYPE	GLASS	FRAME MAT.	FRAME TYPE	DETAILS JAMB	DETAILS HEAD	DETAILS SILL	FIRE RATING	HARDWARE SET	REMARKS	DOOR NO
100.1	3'-0" X 7'-0"	HM	B	IG/TEMP	HM	F2	6/A3.0	7/A3.0	-	-	2		100.1
100.2	3'-0" X 7'-0"	HM	A	-	HM	F2	4/A3.0	4/A3.0 SIM.	-	-	4		100.2
100.3	3'-0" X 7'-0"	HM	A	-	HM	F2	6/A3.0	7/A3.0	-	-	1		100.3
DH100	10' x 12' ROLL-UP	STL	C	-	STL	-	-	-	-	-	-		DH100
101	3'-0" X 7'-0"	HM	A	-	HM	F2	5/A3.0	5/A3.0 SIM.	-	-	3		101
102.1	3'-0" X 7'-0"	HM	B	IG/TEMP	HM	F2	6/A3.0	7/A3.0	-	-	2		102.1
102.2	3'-0" X 7'-0"	HM	A	-	HM	F2	6/A3.0	7/A3.0	-	-	1		102.2
DH102	10' x 12' ROLL-UP	STL	C	-	STL	-	-	-	-	-	-		DH102
103	3'-0" X 7'-0"	HM	A	-	HM	F2	5/A3.0	5/A3.0 SIM.	-	-	3		103

DOOR SCHEDULE ABBREVIATIONS

HM	HOLLOW METAL
TEMP	TEMPERED
STL	STEEL
IG/TEMP	INSULATING GLASS/TEMPERED

DOOR SCHEDULE GENERAL NOTES

A. ALL EXTERIOR HOLLOW METAL DOORS AND FRAMES SHALL BE PAINT GRIP GALVANIZED FROM MANUFACTURER PRIOR TO PAINTING.

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLR MAT.	BASE TYPE	WALLS NORTH MAT	WALLS NORTH FIN	WALLS SOUTH MAT	WALLS SOUTH FIN	WALLS EAST MAT	WALLS EAST FIN	WALLS WEST MAT	WALLS WEST FIN	CEILING MAT	CEILING FIN	CEILING HGT.	NOTES	ROOM NO.
100	HVAC TECHNOLOGIES	SC	RCB	PLWD - SS	PT-2	PLWD - SS	PT-2	PT-2	PT-2	PLWD - SS	PT-2	EXP	PT-1	VAR	1	100
101	TOILET	SC	RCB	SS	PT-2	SS	PT-2	PT-2	PT-2	SS	PT-2	PLWD	PT-2	8'-0"	1	101
102	AGRICULTURE TECHNOLOGIES	SC	RCB	PLWD - SS	PT-2	PLWD - SS	PT-2	PLWD - SS	PT-2	PLWD - SS	PT-2	EXP	PT-1	VAR	1	102
103	TOILET	SC	RCB	SS	PT-2	SS	PT-2	PT-2	PT-2	SS	PT-2	PLWD	PT-2	8'-0"	1	103

FINISH SCHEDULE ABBREVIATIONS

SC	SEALED CONCRETE	P1	PAINT
RCB	RUBBER COVE BASE	PT-1	WHITE INTUMESCENT COATING, OVER SPRAY FOAM INSULATION, APPLIED AS A FINISHED SURFACE
PLWD	PLYWOOD	PT-2	LATEX PAINT, COLOR TO BE COORDINATED WITH OWNER & ARCHITECT
SS	'SMART SIDE' PANELS OR EQUAL		
EXP	EXPOSED		

FINISH SCHEDULE NOTES

1. CLEAN ALL CONCRETE FLOORS THOROUGHLY & APPLY ASHFORD FORMULA FOR CONCRETE DENSIFICATION SYSTEM OR EQUAL. FOLLOW ASHFORD'S INSTRUCTION FOR PROPER INSTALLATION WITH SYSTEMS APPLICABLE CLEANSERS, PREP, ETC

TOILET ACCESSORIES

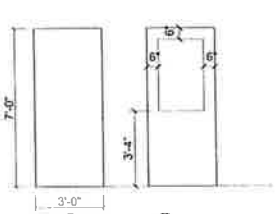
DESIGN	TYPE/STYLE	MODEL NO.	MOUNTING HEIGHT	REMARKS
TPD	OFCI			OWNER FURNISHED, OWNER INSTALLED
GB1	1 1/2" DIA. 42" C/C. CFCI	BOBRICK B-6806 x 42"	36" HIGH TO L OF GRAB BAR, 1'-6" OFF OF BACK WALL OF STALL.	PROVIDE BLOCKING AND INSTALLATION TO SUPPORT 250 LB LOAD APPLIED AT ANY POINT IN ANY DIRECTION
GB2	1 1/2" DIA. 36" C/C. CFCI	BOBRICK B-6806 x 36"	36" HIGH TO L OF GRAB BAR, 6" OFF OF SIDE WALL ADJACENT TO TOILET.	PROVIDE BLOCKING AND INSTALLATION TO SUPPORT 250 LB LOAD APPLIED AT ANY POINT IN ANY DIRECTION
PTD	OFCI			OWNER FURNISHED, OWNER INSTALLED
SD	OFCI			OWNER FURNISHED, OWNER INSTALLED
FND	CFCI	BOBRICK B-270	28" TO TOP OF SINT, 8" FROM FRONT OF TOILET TO CENTER OF DISPENSER, OPPOSITE OF TPD.	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
MIR	CFCI	BOBRICK B-165 2436	40" AFF TO BOTTOM OF ACCESSORY	24" X 36" SURFACE MOUNT CONTRACTOR FURNISHED, CONTRACTOR INSTALLED

TOILET ABBREVIATIONS

FND	FEMININE NAPKIN DISPOSAL
GB	HANDICAPPED GRAB BARS
OFOI	OWNER FURNISHED OWNER INSTALLED
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
PTD	PAPER TOWEL DISPENSER
TPD	TOILET PAPER DISPENSER
SD	SOAP DISPENSER
MIR	MIRROR

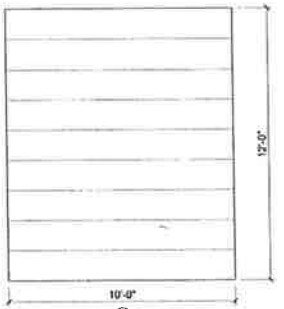


F2
HM.



A HM - FLUSH

B HM - HALF GLASS



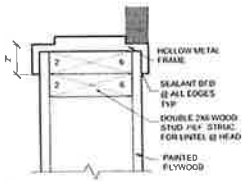
C STL (INSULATING SECTIONAL ROLL-UP DOOR SYSTEM) (PRE-FINISHED MODEL FACE PANEL AT INTERIOR AND EXTERIOR SURFACES)

FRAMES:

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

DOORS:

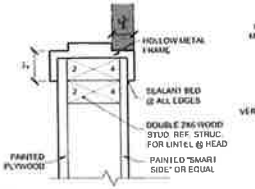
SCALE: 3/8" = 1'-0"



4 A3.0 JAMB DETAIL

HEAD SIM.

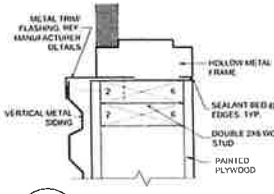
SCALE 3"=1'-0"



5 A3.0 JAMB DETAIL

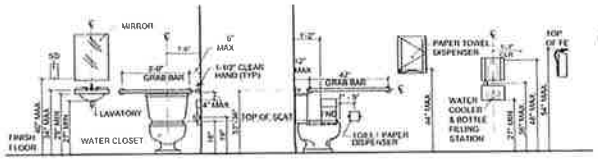
HEAD SIM.

SCALE 3"=1'-0"



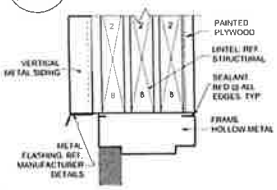
6 A3.0 HEAD/JAMB DETAIL

SCALE 3"=1'-0"



TYPICAL HANDICAP DETAILS & MOUNTING HEIGHTS

SCALE 3/8"=1'-0"



7 A3.0 HEAD DETAIL

SCALE 3"=1'-0"

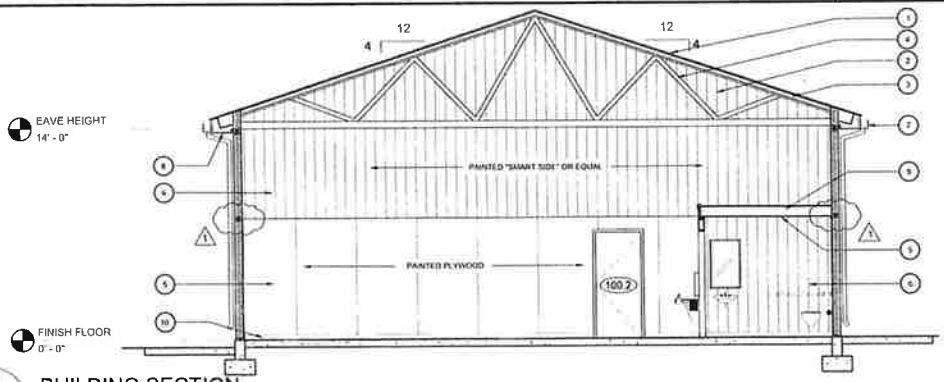
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LYLES, TENNESSEE

ELEVATIONS & SCHEDULES

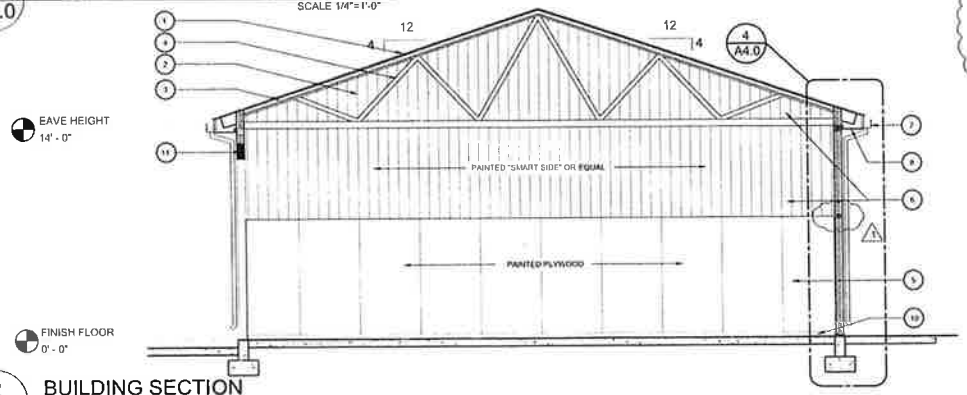
Project No.	1402.1
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A3.0



1 A4.0 BUILDING SECTION

SCALE 1/4"=1'-0"



2 A4.0 BUILDING SECTION

SCALE 1/4"=1'-0"



3 A4.0 BUILDING SECTION

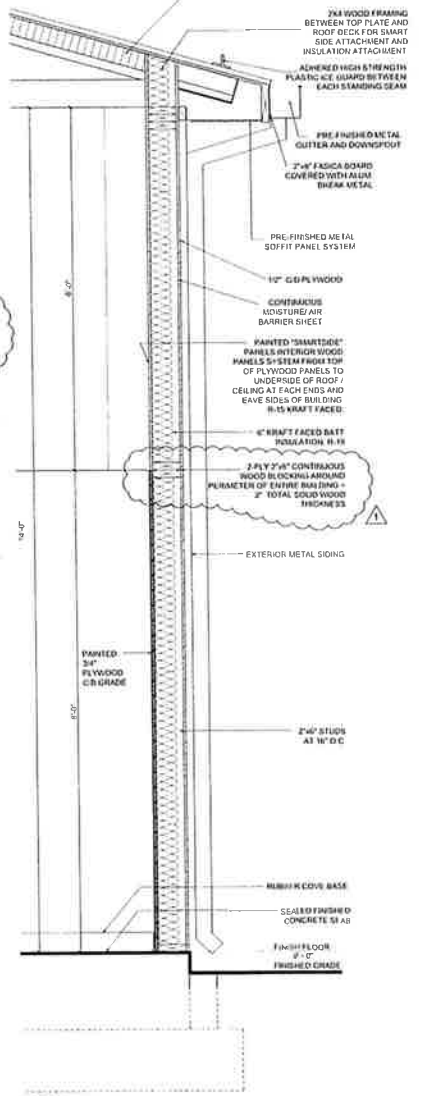
SCALE 1/4"=1'-0"

KEY NOTES TO BUILDING SECTIONS

1. PRE-FINISHED STANDING SEAM METAL ROOFING SYSTEM
2. INSULATED END WALLS FROM FLOOR TO UNDERSIDE OF ROOF DECK - EA SIDE
3. MIN R-38 CLOSED CELL SPRAY FOAM INSULATION WITH INTUMESCENT COATING APPLIED AS A FINISH MATERIAL OVER SPRAY FOAM
4. WOODEN TRUSS SYSTEM REF STRUCTURAL
5. PAINTED PLYWOOD REF FINISH SCHEDULE
6. PAINTED "SMART SIDE" PANELS REF FINISH SCHEDULE
7. PRE-FINISHED METAL GUTTER & DOWNSPOUT
8. CORRUGATED METAL SOFFIT
9. 2X8 CEILING JOISTS @ 16" O.C. TYP REF STRUCTURAL
10. 4" RUBBER COVE BASE
11. LINTEL REF STRUCTURAL
12. 2X6 WOOD FRAMED WALL WITH 3 1/2" SOUND BATT INSULATION IN ENTIRE WALL FROM SLAB TO ROOF DECK

NOTES TO FLOOR SLAB INSULATION

INSTALL MIN. 2" THICK, CONTINUOUS EXTRUDED FOAM PERIMETER SLAB INSULATION AT ENTIRE EDGE OF SLAB &/OR FOUNDATION. PLACE VERTICAL INSULATION BOARD AT INSIDE FACE OF ALL FOUNDATION WALLS BELOW SLAB AND EXTEND A MIN. 3'-0" HORIZONTALLY UNDER FLOOR SLAB ALL AROUND BUILDING



4 A4.0 WALL SECTION

SCALE 1"=1'-0"

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LYLES, TENNESSEE
BUILDING SECTIONS

Project No	1402.1
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Drawn By	CJC
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Revision Date	
Revision Date	

A4.0

GENERAL NOTES

A. DESIGN LOADS AND CODE INFORMATION:

1. THE GENERAL CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS BEFORE STARTING WORK.

2. THE STRUCTURE IS DESIGNED BASED ON THE 2012 INTERNATIONAL BUILDING CODE. ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE INTERNATIONAL BUILDING CODE, 2012 EDITION, AND ITS REFERENCED CODES AND STANDARDS.

3. THE DESIGN, ADEQUACY, AND SAFETY OF ERECTION BRACING, TEMPORARY SUPPORTS, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

4. DESIGN LIVE LOADS
   20 PSF ROOF LIVE LOAD (REDUCTIONS ALLOWED FOR TRIBUTARY AREA)
   20 PSF CEILING LIVE LOAD

5. SNOW LOADS
   GROUND SNOW LOAD, Pg = 10.0 PSF
   ROOF SNOW LOAD, Pf = 7.7 PSF
   EXPOSURE FACTOR, Ce = 1.0
   IMPORTANCE FACTOR, I = 1.0
   THERMAL FACTOR, Ct = 1.1

6. WIND DATA
   115 MPH WIND LOAD PER ASCE 7-10 FOR BUILDINGS
   UNDER 60 FEET IN TOTAL HEIGHT
   RISK CATEGORY II
   EXPOSURE CATEGORY = C
   VELOCITY PRESSURE, qh = 15.4 PSF

7. SEISMIC DATA
   IMPORTANCE FACTOR, I = 1.0
   SEISMIC RISK CATEGORY II
   SPECTRAL RESPONSE ACCELERATION, Ss = 0.378
   SPECTRAL RESPONSE ACCELERATION, S1 = 0.169
   SITE CLASS D (ASSUMED)
   SPECTRAL RESPONSE COEFFICIENT, SDS = 0.378
   SPECTRAL RESPONSE COEFFICIENT, SD1 = 0.239
   DESIGN CATEGORY D
   BASIC FORCE RESISTING SYSTEM -
   LIGHT FRAME SHEAR PANEL OF WOOD R=6.5, Cd=4.0

   ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE

8. ALL HANDRAILS AND GUARDRAILS SHALL BE DESIGNED FOR THE BASE MINIMUM REQUIRED LIVE UNIFORM AND CONCENTRATED LOADS AS SPECIFIED BY THE BUILDING CODE.

9. CONTRACTOR SHALL SUPPLY ALL LABOR, MATERIALS, EQUIPMENT, AND SERVICES REQUIRED TO FURNISH A COMPLETE JOB AND EXECUTE ALL ITEMS SHOWN OR INDICATED ON THESE DRAWINGS.

10. STRUCTURAL TESTS AND SPECIAL INSPECTIONS SHALL BE PERFORMED PER SECTION 1704 OF THE INTERNATIONAL BUILDING CODE, 2012 EDITION.

B. FOUNDATION NOTES:

1. **A GEOTECHNICAL REPORT HAS NOT BEEN SUPPLIED TO THE STRUCTURAL ENGINEER. FOUNDATIONS ARE DESIGNED ON THE ASSUMPTIONS STATED IN THE FOLLOWING NOTES. ALL ASSUMPTIONS SHALL BE VERIFIED BY A GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION.**

2. PROOF-ROLL THE SITE UNDER OBSERVATION OF GEOTECHNICAL ENGINEER BEFORE PLACEMENT OF ANY STRUCTURAL FILL AND PRIOR TO FOUNDATION CONSTRUCTION. ANY SOFT OR UNSUITABLE MATERIALS REVEALED, AS DICTATED BY THE GEOTECHNICAL ENGINEER, SHALL BE REMOVED AND REPLACED WITH COMPACTED FILL. ADDITIONAL SUBGRADE STABILIZATION REQUIREMENTS, IF NEEDED, WILL BE DETERMINED AT THE TIME OF SITE PREPARATION AND DICTATED BY THE GEOTECHNICAL ENGINEER.

3. DESIGN OF FOUNDATIONS IS BASED ON AN ALLOWABLE BEARING PRESSURE OF 2,500 PSF. DESIGN PRESSURES SHALL BE CONFIRMED IN THE FIELD BY A GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF CONCRETE.

4. AFTER OPENING, FOOTINGS SHOULD BE INSPECTED AND CONCRETE PLACED AS SOON AS POSSIBLE TO AVOID EXPOSURE OF THE FOOTING BOTTOMS TO WETTING AND DRYING. IF EXCAVATIONS ARE LEFT OPEN FOR MORE THAN ONE DAY, THEY SHOULD BE PROTECTED TO REDUCE EVAPORATION OR ENTRY OF SOIL MOISTURE.

C. CONCRETE NOTES:

1. NORMAL WEIGHT CONCRETE SHALL CONFORM TO THE FOLLOWING

STRUCTURAL MEMBER	MIN. COMPRESSIVE STRENGTH AT 28 DAYS	TOTAL AIR	MAXIMUM W/C RATIO	SLUMP (IN.)
SLAB-ON-GRADE	3500 PSI	N/A	0.55	4

   SEE CIVIL DRAWINGS FOR EXTERIOR EXPOSED CONCRETE.

2. ALL REINFORCING STEEL TO BE DEFORMED BARS ASTM A615 GRADE 60. WELDED WIRE FABRIC TO BE ASTM A185.

3. MINIMUM BAR LAP SPLICE TO BE 40 BAR DIAMETERS UNLESS NOTED OTHERWISE.

4. CONCRETE COVER
   SLABS-ON-GRADE - 1-1/2" FROM TOP OF SLAB TO WWF
   FOOTINGS - 3"

5. ALL CONCRETE WORK SHALL CONFORM TO THE FOLLOWING (LATEST EDITION)
   ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"
   ACI 302 "GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION"
   ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"
   CRSI "MANUAL OF STANDARD PRACTICE"

6. ALL FORMWORK SHALL COMPLY WITH ACI 347.

7. ALL CONCRETE SHALL BE READY-MIXED CONFORMING TO ASTM C94.

8. CONCRETE PRODUCTS SHALL CONSIST OF THE FOLLOWING
   PORTLAND CEMENT COMPLYING WITH ASTM C150
   AGGREGATES COMPLYING WITH ASTM C33
   POTABLE WATER
   WATER-REDUCING ADMIXTURE COMPLYING WITH ASTM C494, TYPE A OR D
   HIGH RANGE WATER-REDUCING ADMIXTURE COMPLYING WITH ASTM 494, TYPE F
   AIR ENTRAINING ADMIXTURE COMPLYING WITH ASTM C260
   ACCELERATOR ADMIXTURE COMPLYING WITH ASTM C494, TYPE C OR E
   FLY ASH (LIMIT CONTENT TO 20% TOTAL WEIGHT OF CEMENT PLUS FLY ASH)
   (ADMIXTURES CONTAINING MORE THAN 0.1% CALCIUM CHLORIDE ARE NOT ALLOWED)

9. IN HOT WEATHER, COMPLY WITH ACI 305.

10. IN COLD WEATHER, COMPLY WITH ACI 306.

11. PROVIDE TROWEL FINISH FOR INTERIOR SLABS AND BROOM FINISH FOR EXTERIOR SLABS, UNLESS NOTED OTHERWISE.

12. PROVIDE CORNER BARS AT JUNCTION OF ALL STRIP FOOTINGS.

13. REINFORCING BARS EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.

14. REINFORCING BARS SHALL NOT BE WELDED OR HEATED IN THE FIELD WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.

15. ALL REINFORCING SHALL BE PROPERLY SECURED IN PLACE BEFORE CONCRETE PLACEMENT. PLACEMENT OF BARS INTO FRESH OR SET CONCRETE WILL NOT BE ALLOWED.

16. SAWN CONTROL JOINTS IN SLAB-ON-GRADE SHALL BE CUT IN ACCORDANCE WITH ACI 302.1R. JOINTS SHALL BE CUT WITHIN 12 HOURS OF SLAB PLACEMENT.

17. REINFORCING STEEL PLACEMENT DRAWINGS (SHOP DRAWINGS) SHALL BE SUBMITTED FOR REVIEW PRIOR TO PLACEMENT OF REINFORCEMENT IN THE FIELD. THESE DRAWINGS SHALL CONFORM TO THE REQUIREMENTS OF ACI 315 "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT," PART B (RESPONSIBILITIES OF THE DETAILER).

18. WELDED WIRE FABRIC SHALL BE SUPPLIED IN SHEETS. ROLLS ARE NOT ALLOWED.

D. WOOD FRAMING AND ROUGH CARPENTRY NOTES:

1. FRAMING MEMBERS SHALL BE NO. 2 GRADE SOUTHERN PINE WITH 19% MAXIMUM MOISTURE CONTENT. OTHER SPECIES OF EQUAL STRENGTH MAY BE USED WITH PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.

2. NO. 2 SPRUCE-PINE-FIR (SPF) STUDS MAY BE USED AT WALL FRAMING, UNLESS NOTED OTHERWISE.

3. BLOCKING SHALL BE PROVIDED FOR ALL WALLS AT MID-HEIGHT BETWEEN SUPPORT POINTS.

4. FRAMING SHALL BE SPACED AT 16" O.C. UNLESS NOTED OTHERWISE ON THESE DRAWINGS.

5. SHEATHING SHALL MEET APA PERFORMANCE STANDARDS AND STRESS RATING.

6. ATTACHMENT OF WOOD FRAMING MEMBERS SHALL BE IN CONFORMANCE WITH THESE DRAWINGS AND THE INTERNATIONAL BUILDING CODE, 2012 EDITION, CHAPTER 23, WHICHEVER IS MORE STRINGENT.

7. LVL BEAMS SHALL BE EQUAL TO THOSE PROVIDED BY BOISE CASCADE. PROVIDE VERSA-LAM 2.0 3100 MINIMUM STRENGTH LVL BEAMS.

8. ALL CONNECTORS AND FASTENERS MUST BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATION. INCORRECT FASTENER QUANTITY, SIZE, TYPE, MATERIAL, OR FINISH MAY RESULT IN FAILURE OF CONNECTION.

9. UNLESS NOTED OTHERWISE, 8d, 10d, 12d, AND 16d SPECIFIES COMMON NAILS.

10. PROVIDE CORROSION INHIBITIVE CONNECTOR AND FASTENER COATINGS AND/OR MATERIALS FOR PRESSURE-TREATED LUMBER BASED ON PUBLISHED INDUSTRY STANDARDS FOR TYPE OF PRESERVATIVE TREATMENT USED. SUBMIT DOCUMENTATION REGARDING PRODUCTS SELECTED AND PRESERVATIVE TYPES UTILIZED.

E. PREFABRICATED WOOD TRUSS NOTES:

1. PREFABRICATED WOOD TRUSSES SHALL COMPLY WITH THE TRUSS PLATE INSTITUTE RECOMMENDATIONS. PREFABRICATED WOOD TRUSS SUPPLIER'S ENGINEER IS THE DELEGATED ENGINEER RESPONSIBLE FOR DESIGN OF THE ROOF TRUSSES TO MEET THE DESIGN LOADS STATED HEREIN AND CONFORM TO THE ANSI / AF&PA NDS CODE AND ALL STATE AND LOCAL CODES. WOOD TRUSS SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY THE ENGINEER, REGISTERED IN THE STATE OF TENNESSEE, WHO PREPARED THEM.

2. TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING LOADS
   10 PSF TOP CHORD DEAD LOAD
   20 PSF TOP CHORD LIVE LOAD
   10 PSF BOTTOM CHORD DEAD LOAD
   TRUSS SELF-WEIGHT
   WIND UPLIFT IN ACCORDANCE WITH ASCE 7-10 BUILDING CODE. USE 5 PSF TOP CHORD DEAD LOAD AND 3 PSF BOTTOM CHORD DEAD LOAD AS RESISTANCE TO WIND UPLIFT.

3. WOOD TRUSS SHOP DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO TRUSS FABRICATION AND ERECTION.

4. ANY FRAMING REQUIRED FOR SUPPORT OF EQUIPMENT OR ROOF OPENINGS SHALL BE DESIGNED AND PROVIDED BY TRUSS SUPPLIER'S ENGINEER.

5. PROVIDE TEMPORARY BRACING AS REQUIRED TO MAINTAIN TRUSSES PLUMB, PARALLEL AND IN LOCATION INDICATED, UNTIL PERMANENT BRACING IS INSTALLED.

6. INSTALL PERMANENT BRACING AND RELATED COMPONENTS TO ENABLE TRUSSES TO MAINTAIN DESIGN SPACING, WITHSTAND LIVE AND DEAD LOADS INCLUDING LATERAL LOADS, AND TO COMPLY WITH OTHER INDICATED REQUIREMENTS, AS DICTATED BY THE TRUSS SUPPLIER'S ENGINEER.

7. ERECT AND BRACE WOOD TRUSSES IN COMPLIANCE WITH TRUSS PLATE INSTITUTE RECOMMENDATIONS.

8. ANCHOR TRUSSES SECURELY AT ALL BEARING POINTS AS REQUIRED TO WITHSTAND LIVE AND DEAD LOADS, WIND UPLIFT, AND LATERAL LOADS.

9. SPACE TRUSSES A MAXIMUM OF 2 FEET ON CENTER. SMALLER SPACINGS AS REQUIRED BY TRUSS DESIGN ARE ACCEPTABLE.

LINTEL SCHEDULE

WALL TYPE	LINTEL SIZE - OPENINGS UP TO 6'-4" WIDE, U.N.O.
2x6 STUDS	(3) 2 x 8 w/(2)7/16" OSB FLITCH PLATES
2x4 STUDS	(2) 2 x 8 w/7/16" OSB FLITCH PLATE

MARK	LINTEL SIZE - FOR MARKED LOCATIONS
L1	(3) 1 3/4 x 11 7/8 LVL w/1/4" PLYWOOD FLITCH PLATE

NOTES:
A) ALL LINTELS SHOWN IN NOMINAL SIZES.
B) LINTELS MUST BE PROVIDED FOR MECHANICAL AS WELL AS ARCHITECTURAL OPENINGS.

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K&S PROJECT NO. 2025-102
Engineering, PLLC

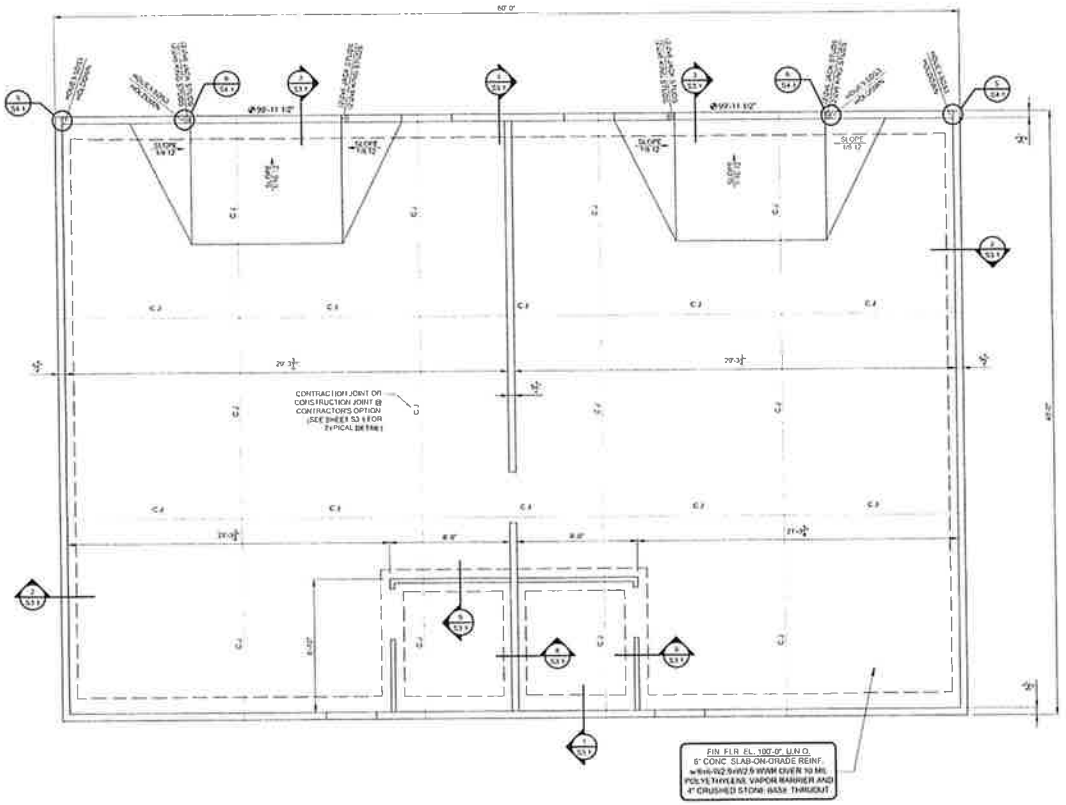
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GENERAL NOTES & SCHEDULE

Project No.	1402.1
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Drawn By	BKS
Revision Date	
Revision Date	
Revision Date	

SHEET NO. S1.0



PLAN NORTH

FOUNDATION PLAN

SCALE 1/4" = 1'-0"

NOTES
1. SEE SHEET S1.0 FOR GENERAL NOTES & SCHEDULES
2. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND DETAILS NOT SHOWN
3. U.N.O. - UNLESS NOTED OTHERWISE
4. FINISH FLOOR ELEVATION 100'-0" IS A REFERENCE ELEVATION ONLY. SEE SITE PLAN FOR ACTUAL ELEVATION
5. F.V. - FIELD VERIFY
6. SEE SHEET S3.1 FOR TYPICAL FOUNDATION DETAILS
7. USE DOUBLE STUDS AT ALL WINDOWS, DOOR JAMBS, END OF WALLS AND AT LINTEL BEARING LOCATIONS U.N.O.

K&S Engineering, PLLC
KSE PROJECT NO. 2025-162

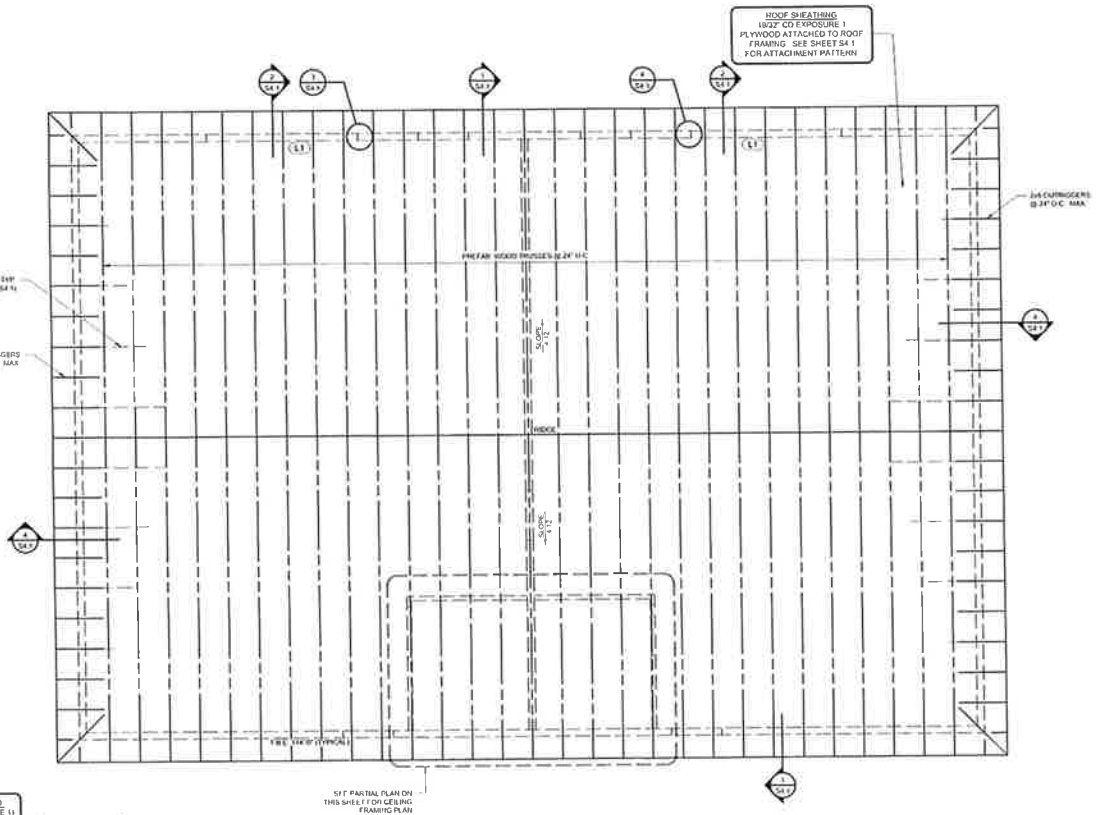
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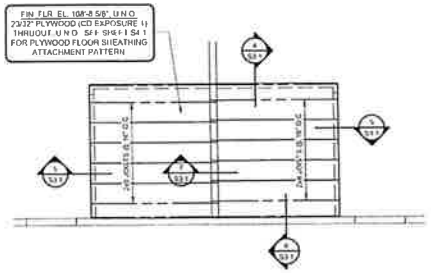
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FOUNDATION PLAN

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SHEET NO. S1.1





PLAN NORTH

PARTIAL PLAN - CEILING FRAMING PLAN

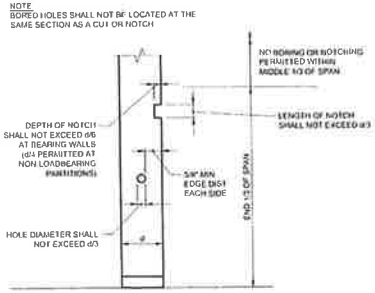
SCALE 1/4" = 1'-0"

PLAN NORTH

ROOF FRAMING PLAN

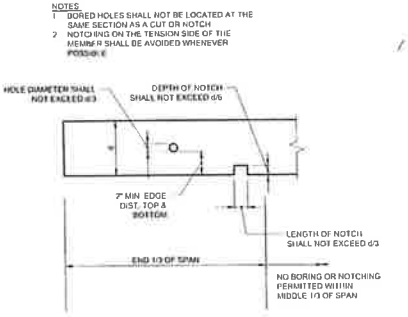
SCALE 1/4" = 1'-0"

NOTES:
1. SEE SHEET S1.0 FOR GENERAL NOTES & SCHEDULES
2. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND DETAILS NOT SHOWN
3. F.B.E. - TRUSS BEARING ELEVATION
4. U.N.O. - UNLESS NOTED OTHERWISE
5. ELEVATIONS SHOWN ARE RELATIVE TO FINISH FLOOR ELEVATION OF 100'-0" BELOW
6. TRUSS SUPPLIER SHALL DESIGN ROOF TRUSSES FOR ULT WIND UPLIFT IN GENERAL NOTES ON SHEET S1.0
7. USE DOUBLE STUDS AT ALL WINDOWS, DOOR JAMBS, END OF WALLS, AND AT LINTEL BEARING LOCATIONS U.N.O.



TYP. **DETAIL**

STUD NOTCHING & BORING LIMITS



TYP. **DETAIL**

JOIST NOTCHING & BORING LIMITS

LEGEND:

(L1) LINTEL MARK (1/S1.0 TYPICAL (SEE SHEET S1.0 FOR LINTEL SCHEDULE)

K&S Structural Engineers — K&S PROJECT NO. 2025-102 — K&S Engineering, PLLC

TODD WALDEN CLAYTON — LICENSED PROFESSIONAL ENGINEER — 7.18.25 — STATE OF TENNESSEE

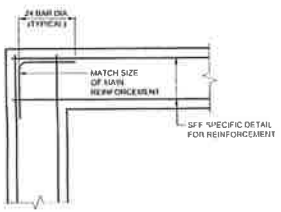
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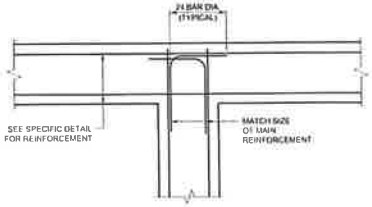
ROOF FRAMING PLAN

Project No	1402.1
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Drawn By	BKS
Revision Date	
Revision Date	
Revision Date	

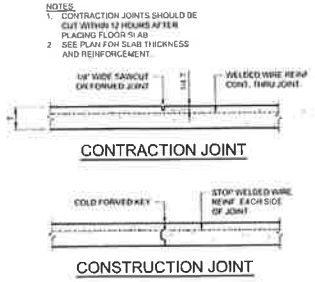
S2.1



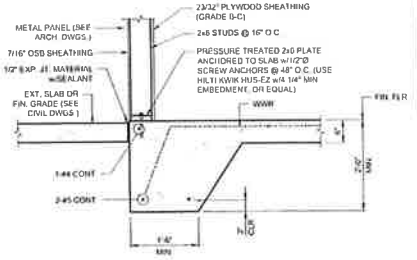
TYP. DETAIL
FOOTING CORNER REINFORCEMENT
NOT TO SCALE



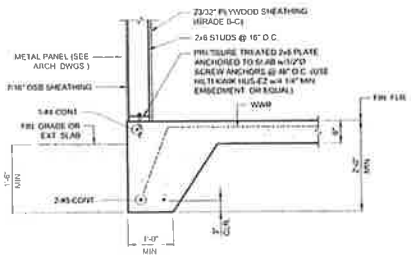
TYP. DETAIL
FOOTING JUNCTION REINFORCEMENT
NOT TO SCALE



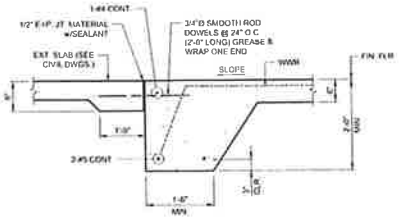
TYP. DETAIL
SLAB JOINTS
NOT TO SCALE



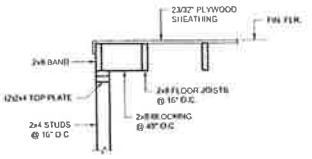
1 DETAIL
TURNDOWN SLAB
SCALE: 3/4"=1'-0"



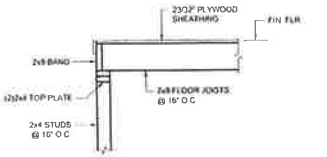
2 DETAIL
TURNDOWN SLAB
SCALE: 3/4"=1'-0"



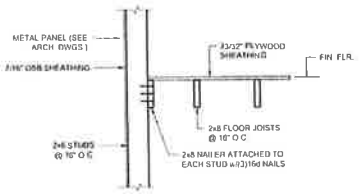
3 DETAIL
TURNDOWN SLAB AT OPENING
SCALE: 3/4"=1'-0"



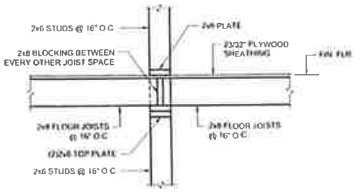
4 DETAIL
JOISTS PARALLEL TO STUD WALL
SCALE: 3/4"=1'-0"



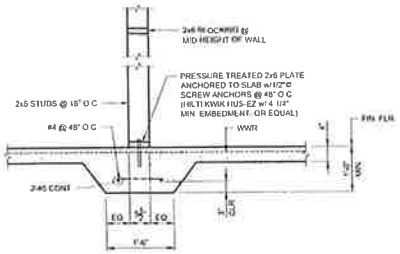
5 DETAIL
JOISTS BEARING AT STUD WALL
SCALE: 3/4"=1'-0"



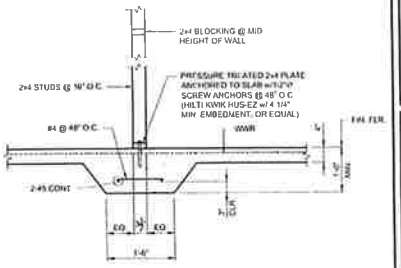
6 DETAIL
JOISTS PARALLEL TO EXTERIOR WALL
SCALE: 3/4"=1'-0"



7 DETAIL
JOISTS BEARING AT INTERIOR WALL
SCALE: 3/4"=1'-0"



8 DETAIL
THICKENED SLAB AT 2x6 STUD WALL
SCALE: 3/4"=1'-0"



9 DETAIL
THICKENED SLAB @ 2x4 STUD WALL
SCALE: 3/4"=1'-0"

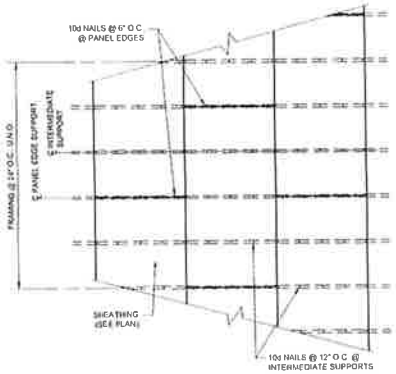
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K&S PROJECT NO. 2025-102
K&S Engineering, PLLC

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FOUNDATION DETAILS

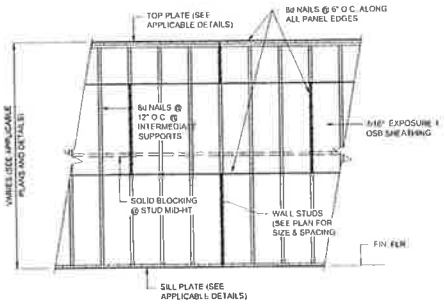
Project No	1402.1
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Drawn By	BKS
Revision Date	
Revision Date	
Revision Date	

SHEET NO
S3.1



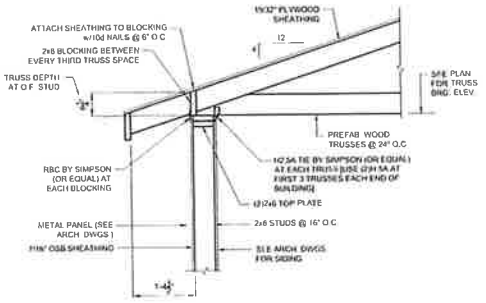
TYP. **DETAIL** NOT TO SCALE

ROOF/CEILING SHEATHING ATTACHMENT



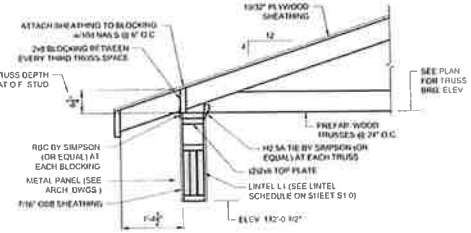
TYP. **DETAIL** NOT TO SCALE

WALL SHEATHING ATTACHMENT PATTERN



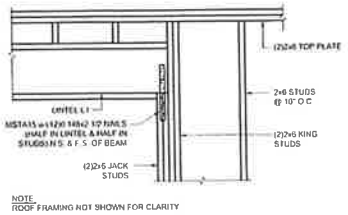
1 **DETAIL** SCALE: 3/4"=1'-0"

TRUSS BEARING AT STUD WALL



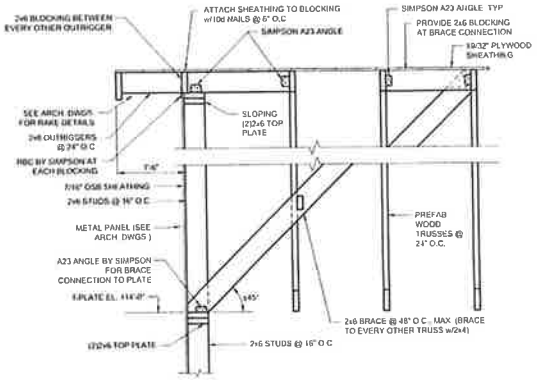
2 **DETAIL** SCALE: 3/4"=1'-0"

TRUSS BEARING AT LINTEL L1



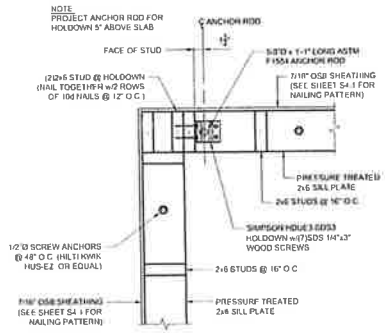
3 **DETAIL** SCALE: 3/4"=1'-0"

LINTEL BEARING AT JAMB STUDS



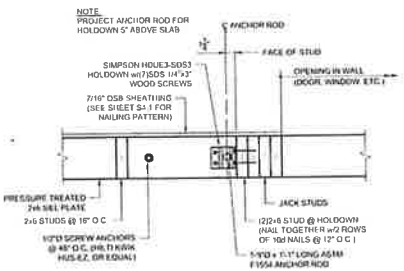
4 **DETAIL** SCALE: 3/4"=1'-0"

GABLE END WALL FRAMING



5 **DETAIL** SCALE: 1 1/2"=1'-0"

HOLDOWN @ CORNER



6 **DETAIL** SCALE: 1 1/2"=1'-0"

HOLDOWN @ EDGE OF OPENING

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FRAMING DETAILS

Project No.	1402.1
Issue Date	7.18.2025
Drawn By	BKS
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Revision Date	
Revision Date	

S4.1

SHEET NO.

INTERNATIONAL ENERGY CODE SPECS

A. EQUIPMENT SHALL COMPLY WITH REQUIREMENTS OF THE APPLICABLE ENERGY CODE 2012 INTERNATIONAL ENERGY CONSERVATION CODE
FOLLOWING IS A LIST OF ITEMS THAT SHALL BE INCLUDED.
1. EQUIPMENT SHALL MEET OR EXCEED THE MINIMUM EFFICIENCY REQUIREMENTS IDENTIFIED ABOVE.
2. AIR ECONOMIZERS ON EQUIPMENT GREATER THAN 54,000 BTUH (COOLING) WITH FAULT DETECTION DIAGNOSTICS SYSTEM

B. SYSTEM COMPONENTS SHALL COMPLY WITH REQUIREMENTS OF THE APPLICABLE ENERGY CODE
1. CONTROLS SHALL INCLUDE OPTIMUM START CONTROLS AND 5°F DEADBAND.
2. DUCT AND PLENUM CONSTRUCTION, SEALING AND INSULATION COMPLY WITH REQUIREMENTS OF THE APPLICABLE ENERGY CODE.
3. AIR INLETS AND OUTLETS SHALL INCLUDE MEANS FOR AIR BALANCING.
4. EACH ZONE SHALL BE EQUIPPED WITH SETBACK CONTROLS USING AUTOMATIC TIME CLOCK OR PROGRAMMABLE CONTROL SYSTEM.
5. CONTROLS SHALL HAVE THE CAPABILITY TO SET BACK DOWN TO 55°F OR UP TO 85°F, 7-DAY TIME CLOCK & 2-HOUR OCCUPANT OVERRIDE.

C. POST CONSTRUCTION REQUIREMENTS.
1. FURNISH HVAC AS-BUILT DRAWINGS SUBMITTED WITH IN 90 DAYS OF SYSTEM ACCEPTANCE.
2. FURNISH O&M MANUALS TO OWNER FOR HVAC SYSTEMS WITHIN 90 DAYS OF SYSTEM ACCEPTANCE.
3. FURNISH AN AIR SYSTEMS HVAC BALANCE REPORT.

PACKAGED AC UNIT SCHEDULE

UNIT DESIGNATION	AC#1	AC#2
TYPE	GAS PACK - HOR	GAS PACK - HOR
SERVICE	CR#1	CR#2
ACCESSORIES	---	---
O.A. DAMPER - ECON. OR 2-POS.	(1)	(1)
CURB	NO. PAD MOUNTED	NO. PAD MOUNTED
FILTERS	2". 30%/MERV 8. T.A.	2". 30%/MERV 8. T.A.
HUMIDITY CONTROL	YES-H.G.R.	YES-H.G.R.
SUPPLY FAN	---	---
TOTAL C.F.M.	2,000	2,000
O.A. MINIMUM	600	600
EXTERNAL S.P.	0.75	0.75
H.P.	3.0	3.0
VOLTAGE	460/1/60	460/1/60
HEATING COIL	SS	SS
FUEL	NATURAL GAS 2-STAGE	NATURAL GAS 2-STAGE
HEATING CAP. INPUT - MBH	150.0	150.0
HEATING CAP. OUTPUT - MBH	121.5	121.5
E.A.D.B./L.A.D.B.	50.6/106.6	50.6/106.6
COOLING COIL	---	---
TOT/SENS CAP. (MBH)	62.4/48.3	62.4/48.3
E.A.D.B./E.A.W.B.	80/67	80/67
CONDENSING SECTION	---	---
COMP. F.L.A.	7.9	7.9
COND.FANS F.L.A.	0.7	0.7
UNIT M.C.A./M.O.C.P.	16.0/20	16.0/20
VOLTAGE	460/3/60	460/3/60
O.A.D.B.	95°F	95°F
MIN. S.E.E.R.	16.4	16.4
MANUFACTURER	TRANE	TRANE
MODEL #	YHR-060	YHR-060
WEIGHT (lbs) (UNIT + CURB)	1,000	1,000
DIMENSIONS (L X W X H)	88"X53"X51"	88"X53"X51"

(1) ECONOMIZER: DUAL ENTHALPY CONTROL, FAULT DETECTION & DIAGNOSIS, BAROMETRIC RELIEF

GENERAL MECHANICAL LEGEND

SYMBOL	DESCRIPTION
	SUPPLY DUCTWORK
	RETURN DUCTWORK
	EXHAUST DUCTWORK
	OUTSIDE AIR DUCTWORK
F	FIRE DAMPER
	COMBINATION FIRE & SMOKE DAMPER
	SUPPLY AIR DIFFUSER
	RETURN OR EXHAUST AIR REGISTER
	DAMPER
	ROUND DUCTWORK OR FLUE UP THRU ROOF OR SLAB
	SUPPLY DUCT THRU SLAB OR ROOF - SEE PLANS
	RETURN OR EXHAUST DUCT THRU SLAB OR ROOF - SEE PLANS
	UNDERCUT DOOR 3/4"
	DOOR GRILLE - SEE PLANS FOR SIZE
	MANUAL VOLUME DAMPER (M.V.D.)
	MOTORIZED VOLUME DAMPER
S.D.	SMOKE DETECTOR
8"Ø 200	8"Ø NECK SUPPLY AIR DIFFUSER @ 200 C.F.M.
8"x8" 150	8"x8" RETURN AIR REGISTER @ 150 C.F.M.
6"x6" 100	6"x6" EXHAUST AIR REGISTER @ 100 C.F.M.
T	SPACE THERMOSTAT MOUNTING HEIGHT PER ADA (48" AFF)
H	SPACE HUMIDISTAT
S	WALL SWITCH FOR CONTROL; MOUNTING HEIGHT PER ADA
	ELECTRIC DUCT HEATER
	COIL - SEE PLANS FOR TYPE
	ROOM A.C. UNIT
E.W.H.	ELECTRIC WALL HEATER
	ELECTRIC UNIT HEATER - CEILING MOUNTED
U.C.S.	UNIT CONNECTION SIZE
F.V.S.	FIELD VERIFY SIZE
U.O.N.	UNLESS OTHERWISE NOTED

FAN SCHEDULE

UNIT DESIGNATION	EF#1A & 2A	EF#1B & 2B
TYPE	CENTRIFUGAL CEILING	CENTRIFUGAL CEILING
SERVICE	RESTROOMS	SHOPS
C.F.M.	50	550
STATIC PRESSURE	0.375	0.375
SONES	2.5	2.0
POWER (AMPS)	50 WATTS	0.5 HP
VOLTAGE	120-1-60	120-1-60
ACCESSORIES	---	---
DAMPER TYPE	BACKDRAFT	BACKDRAFT
SCREEN TYPE	---	---
MOTOR WITH INTERNAL OVERLOAD	YES	ECM
S.S.S. CONTROLLER	YES	---
WALL/ROOF CAP:	LOUVER-SEE PLANS	LOUVER-SEE PLANS
MANUFACTURER	COOK	COOK
MODEL #	GC-166	GCVF-900

EF#1A & 2A: CONTROL WITH LIGHTS
EF#1B & 2B: INTERLOCK W/AC UNIT

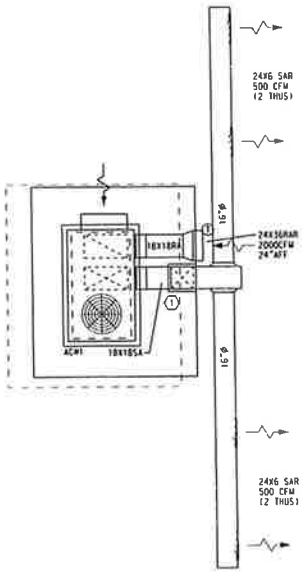
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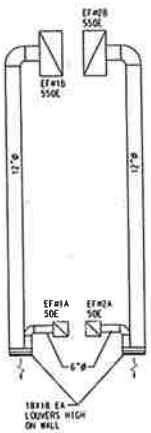
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LYLES, TENNESSEE

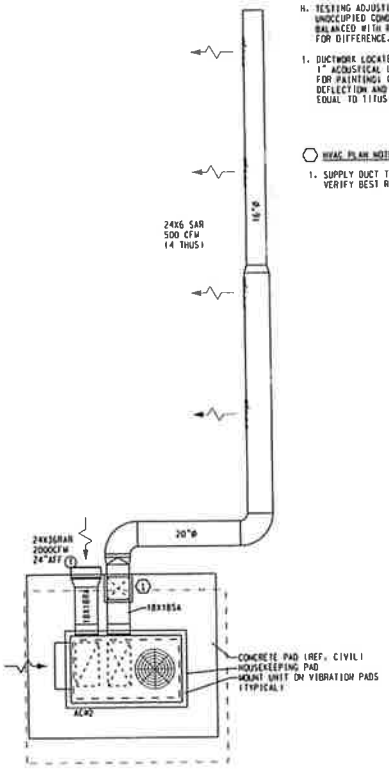
HVAC
LEGENDS AND SCHEDULES

Project No: 1402.1
Issue Date: 07/18/2025
Drawn By: E.E.I.
Revision Date:
Revision Date:
Revision Date:

M1.1
SHEET NO







H.V.A.C.
FLOOR PLAN
SCALE: 1/4" = 1'-0"

ENTECH ENGINEERING

GENERAL HVAC NOTES:

A. THE INTENT OF THE SPECIFICATION AND THE DRAWINGS IS TO PROVIDE A COMPLETE AND FULLY OPERATIONAL SYSTEM. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL LABOR, MATERIAL AND INSTALL ALL EQUIPMENT AND MATERIALS NECESSARY TO COMPLETE THE WORK.

B. COORDINATE DUCTWORK WITH ALL TRADES AND FIELD CONDITIONS PRIOR TO FABRICATION. SUBMIT ANY MAJOR CHANGES IN DUCT ROUTING OR DUCT SIZING AS A SHOP DRAWING TO THE ARCHITECT/ENGINEER FOR REVIEW.

C. COORDINATE CEILING AIR INLETS AND OUTLETS WITH REFLECTED CEILING PLAN. DO NOT LOCATE ANY AIR OUTLETS WITHIN 3 FEET OF CEILING SMOKE DETECTORS.

D. MAINTAIN CLEARANCES FROM ELECTRICAL PANELS AS REQUIRED BY N.E.C.

E. MAINTAIN CLEARANCES FOR SERVICE OF HVAC EQUIPMENT AS REQUIRED BY MANUFACTURER AND NEC 110.26. PROVIDE MECHANICAL ROOM SHOP DRAWINGS AS REQUIRED FOR COORDINATION.

F. REFERENCE CONTROL SCHEMATICS & DUCTWORK DETAILS FOR MANUAL AND AUTOMATIC DAMPER LOCATIONS.

G. REFERENCE ARCHITECTURAL ELEVATIONS FOR LOCATIONS OF LOUVERS AND WALL CAPS.

H. TESTING ADJUSTING & BALANCING OF AIR SHALL INITIALLY BE ACCOMPLISHED AT UNOCCUPIED CONDITIONS AS INDICATED ON THE DRAWINGS AND THEN THE OUTSIDE AIR BALANCED WITH RETURN AIR INLETS REBALANCED PROPORTIONALLY LOWER TO ACCOUNT FOR DIFFERENCE.

1. DUCTWORK LOCATED IN SPACES WITH NO CEILING/EXPOSED STRUCTURE, SHALL HAVE: 1" ACOUSTICAL LINER WITH ANTI-MICROBIAL COATING; PAINT GRIP EXTERIOR FINISH FOR PAINTING; GRILLES SHALL BE SPIRAL DUCT MOUNTED GRILLE WITH DOUBLE DEFLECTION AND DAMPER/EXTRACTOR. LONG FRONT BLADES. MAX. NC = 25 EQUAL TO TITUS 300FL.

HVAC PLAN NOTES:

1. SUPPLY DUCT TURNED UP WALL AND INTO BUILDING HIGH JUST BELOW STRUCTURE - FIELD VERIFY BEST ROUTING. SEE DETAIL FOR EXTERIOR DUCT INSULATION DETAIL.

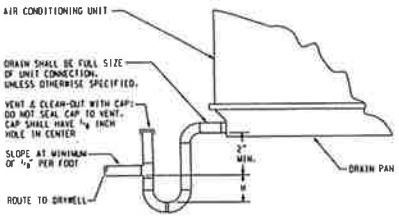
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H.V.A.C.
FLOOR PLAN

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M2.1
SHEET NO.

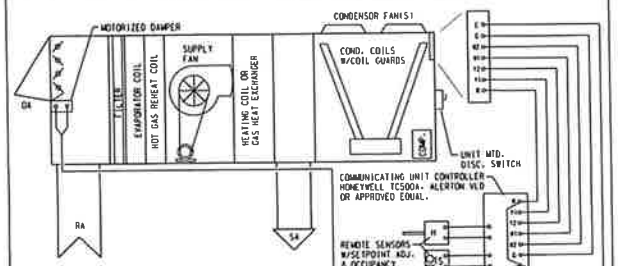


NOTE:
"H" DIMENSION SHALL BE A MINIMUM OF 2" OR EQUAL TO THE NEGATIVE FAN INLET PRESSURE (RETURN AIR GRILLE, DUCT, FILTERS, AND COILS).

CONDENSATE DRAIN FROM DRAW-THRU UNITS

SCALE: NONE

A6



SEQUENCE OF OPERATION:
1. OCCUPIED MODE: FAN ON & O.A. OPEN
2. UNOCCUPIED MODE: FAN CYCLES & O.A. CLOSED
3. T'STAT SHALL HAVE A 5°F DEADBAND.

NOTES:
1. VERIFY NO. OF WIRES WITH MANUFACTURER.
2. ROUTE CONTROL WIRE IN CONDUIT PER SECTION 260519, EXCEPT ABOVE ACCESSIBLE LAY-IN CLGS.

PACKAGED AC UNIT CONTROL SCHEMATIC

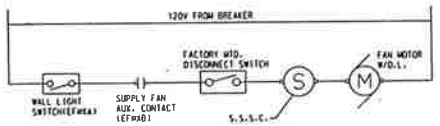
NO SCALE

FOR MULTIPLE CONTROLLERS, LABEL EACH CONTROLLER W/UNIT # AND PROVIDE FRAMED, COLOR CODED ZONE PLAN INDICATING AREAS SERVED BY EACH T'STAT

TYPICAL FOR UNITS: AC#1 & 2

C3

ENTECH ENGINEERING

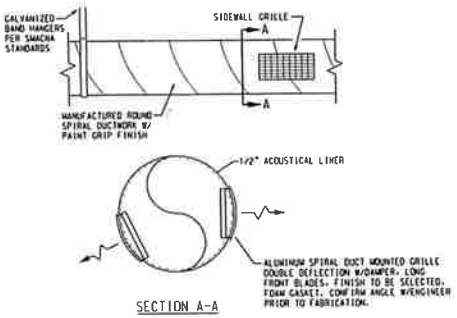


EXHAUST FAN CONTROL

SCALE: NONE

TYPICAL FOR UNITS: EF#1A & 1B AND 2A & 2B

F2

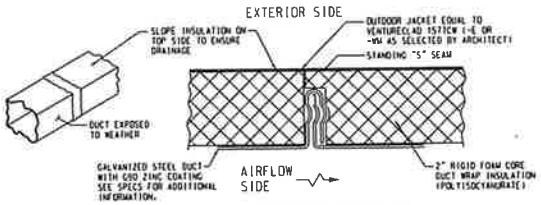


SECTION A-A

EXPOSED ROUND DUCT/DIFFUSER

SCALE: NONE

C10

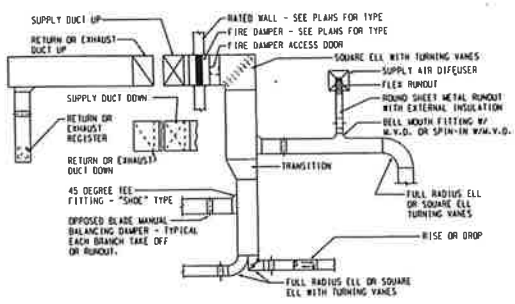


NOTE: ALL DUCTWORK EXPOSED TO WEATHER TO BE INSTALLED THUS:
1. USE 1" STANDING "S" SEAMS ON EXTERIOR SIDE OF DUCT. (TOP & BOTTOM) & USE DRIVE STRIPS ON OUTSIDE OF DUCT. (SIDES ONLY)
2. FLANGED DUCTWORK MAY BE USED AS AN ALTERNATIVE OR AS REQUIRED BY SMACNA STANDARDS.
3. LONGITUDINAL JOINTS FOR DUCT CONSTRUCTION TO BE ON BOTTOM AND WATER TIGHT.
4. APPLY 2" RIGID FOAM CORE DUCT BOARD WITH VAPOR BARRIER TAPE. TOP SIDE SHALL BE SLOPED TO ENSURE DRAINAGE.
5. APPLY OUTDOOR JACKET ON BOTTOM FIRST, THEN SIDES, THEN TOP TO ENSURE WATER TIGHT SEAL.
6. COORDINATE FLASHING AT EXTERIOR WALL WITH ARCHITECTURAL DETAILS.
7. SEE SPECIFICATIONS AND MANUFACTURERS' INSTALLATION RECOMMENDATIONS FOR ADDITIONAL INFORMATION.

DUCTS EXPOSED TO WEATHER

SCALE: NONE

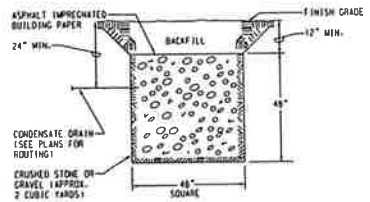
C15



TYPICAL SUPPLY, RETURN OR EXHAUST DUCT SYSTEM

SCALE: NONE

C4



CONDENSATE DRYWELL DETAIL

SCALE: NONE

A9

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HVAC DETAILS

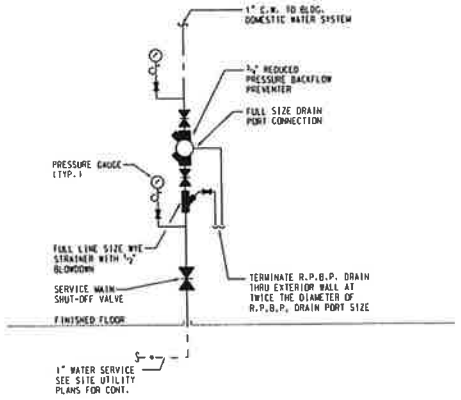
Project No.	1402.1
Issue Date	07/18/2025
Drawn By:	E.E.I.
Revision Date	
Revision Date	
Revision Date	

M3.1
SHEET NO.

REDUCED PRESSURE BACKFLOW PREVENTER SCHEDULE

DESIGNATION	QUANTITY	SERVING	G.P.M.	P.D. (osig)	MANUFACTURER	MODEL NUMBER	REMARKS
RPBP-1	1	DOM WATER	20	13	WATTS	LF909-QT-S	3/4" SIZE

NOTE:
1. PROVIDE 90DEL ELBOW FITTING.
2. ALL PIPING TO BE RIGIDLY SUPPORTED.



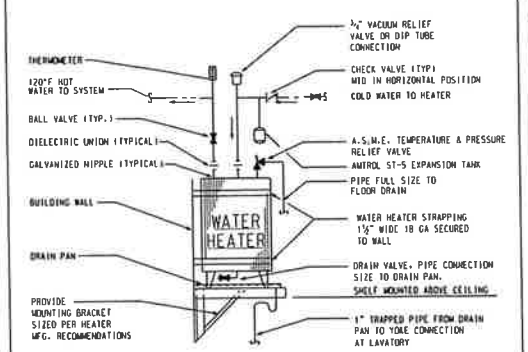
R.P.B.P. No. 1
REDUCED PRESSURE BACKFLOW PREVENTER DETAIL
SCALE: NONE

NOTE: R.P.B.P. MANUFACTURER AND INSTALLATION SHALL BE AS APPROVED BY LOCAL & STATE AUTHORITIES.

1

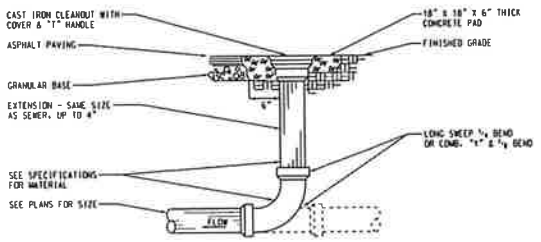
ELECTRIC WATER HEATER SCHEDULE

DESIGNATION	K.W.	VOLTAGE	NO. OF ELEMENTS	TEMP. RISE	RECOVERY G.P.H.	STORAGE CAP. (GAL.)	TANK DIA.	TANK HEIGHT	MANUFACTURER	MODEL NUMBER
WH-1	3	208/1/60	1	100°	12	10	16"	19"	LOCHINVAR	JER-10 SJG



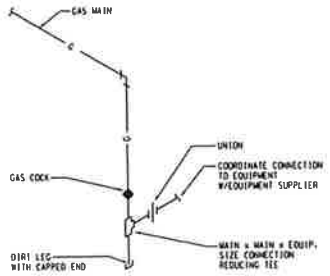
ELECTRIC WATER HEATER DETAIL-SHELF MOUNTED
SCALE: NONE

2



EXTERIOR CLEANOUT DETAIL
SCALE: NONE

3



TYPICAL GAS CONNECTION DETAIL
SCALE: NONE

4

PLUMBING LEGEND

SYMBOL	DESCRIPTION	ABBREVIATIONS
	COLD WATER (UNDERGROUND/UNDERSLAB)	
	COLD WATER	C.W.
	HOT WATER	H.W.
SS	SANITARY SEWER (UNDERGROUND)	
V	VENT	V
V.T.R.	VENT THROUGH THE ROOF	V.T.R.
C.O.	CLEAN-OUT	C.O.
P1	FIXTURE IDENTIFICATION (SEE SPECIFICATIONS)	
	VALVES (SEE SPECIFICATIONS FOR TYPE)	
	REDUCED PRESSURE BACKFLOW PREVENTER	R.P.B.P.
G	NATURAL GAS	G
	GAS VALVE (PLUG COCK)	
	PRESSURE REDUCING VALVE	P.R.V.

FIXTURE CONNECTION SCHEDULE

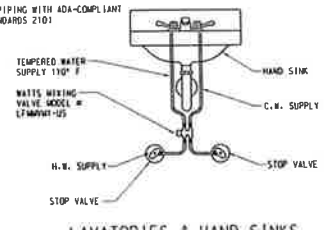
P-#	DESCRIPTION	C.W. (IN.)	H.W. (IN.)	WASTE (IN.)	VENT (IN.)
P1	H'CAP. WATER CLOSET (TANK TYPE - FLOOR MOUNTED) AMERICAN STANDARD 2156A.004 1.6 G.P.F. VITREOUS CHINA H'CAP. WATER CLOSET W/ELONGATED BOWL. CHURCH 9500SSCT OPEN FRONT ELONGATED SEAT. MCGUIRE 173 SUPPLY/STOP	½	---	4	2
P2	LAVATORY (WALL HUNG) AMERICAN STANDARD 0355.012 LAVATORY SYMMONS S-20-O SINGLE LEVEL FAUCET MCGUIRE 155WC OFF-SET GRID STRAINER W/TAIL PIECE MCGUIRE 8872 17 GA. CAST BRASS P-TRAP MCGUIRE LF170LK SUPPLY/STOP ZURN Z1231EZ LAVATORY CARRIER PROVIDE PRE-MOLDED INSULATION ON P-TRAP AND SUPPLY/STOP	½	½	1¼	1¼
P3	WATER COOLER (SINGLE, WALL HUNG W/BOTTLE FILLER) OASIS PG8SBF STAINLESS STEEL COOLER W/BOTTLE FILLING STATION AND FILTER MCGUIRE 8872 17 GA. CAST BRASS P-TRAP MCGUIRE 170LK SUPPLY/STOP INSTALL AT ADA ACCESSIBLE HEIGHT	½	---	1½	1½
P4	UTILITY SINK (FLOOR MOUNTED W/SS LEGS) MUSTEE 19F 24 X 23 X 23-1/2 W/93.600 CHROME FINISH, 4" CENTERS, 7" SWING FAUCET MCGUIRE FLHST06LK5B SUPPLY/STOP MCGUIRE TL15004017 TAILPIECE MCGUIRE 8872 17 GA. CAST BRASS P-TRAP PROVIDE PRE-MOLDED INSULATION ON P-TRAP AND SUPPLY/STOP	½	½	1½	1½
P5	ZURN Z-1321-CXL EXPOSED, NON-FREEZE ANTI-SIPHON, AUTOMATIC DRAINING WALL HYDRANT	¾	---	---	---

NOTE:
1. PROVIDE WATTS LFMMV1-US THERMOSTATIC MIXING VALVE AT EACH HAND WASH LAVATORY OR SINK.

GAS CONNECTION SCHEDULE

ITEM (GX)	DESCRIPTION	REMARKS	DEMAND LOAD
G1	AC#1	150 C.F.H.	SEE THIS SHEET FOR TYPICAL GAS CONNECTION DETAIL GAS PIPE SIZING BASED ON 200 FT. LONGEST RUN WITH A 7-11" W.C. DELIVERY PRESSURE
G2	AC#2	150 C.F.H.	

NOTE:
1. PROVIDE CHECK VALVES ON WATER SUPPLIES AT ALL HAND SINKS AND LAVATORIES.
2. INSULATE EXPOSED PIPING WITH ADA-COMPLIANT MATERIAL (ADA STANDARDS 210)



LAVATORIES & HAND SINKS
SCALE: NONE

5

ENTECH ENGINEERING

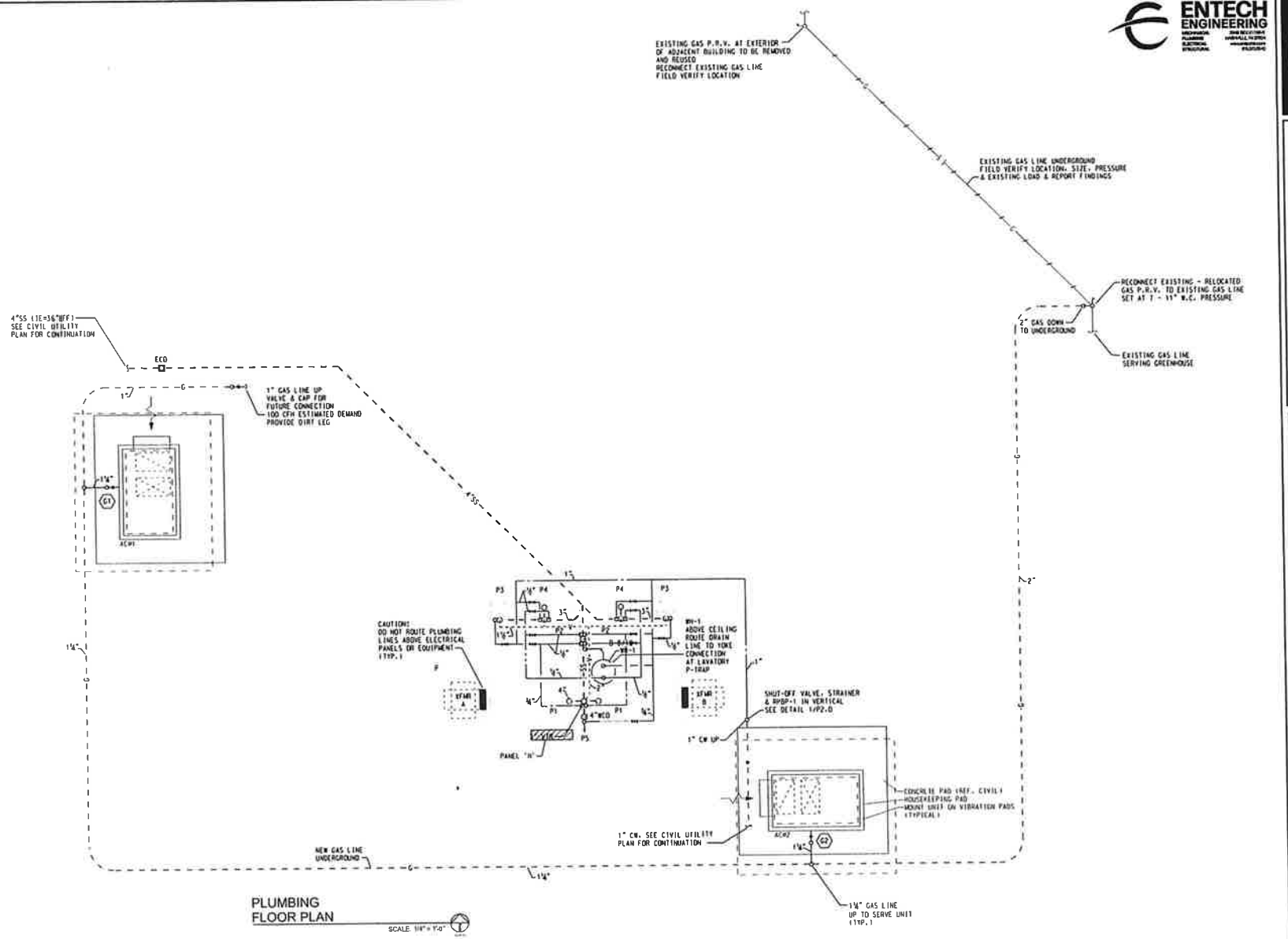
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PLUMBING LEGENDS, SCHEDULES AND DETAILS

Project No.	1402.1
Issue Date	07/18/2025
Drawn By:	E.E.I.
Research Date	
Revision Date	
Revision Date	

P2.0
SHEET #



PLUMBING
FLOOR PLAN

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

ENTECH ENGINEERING

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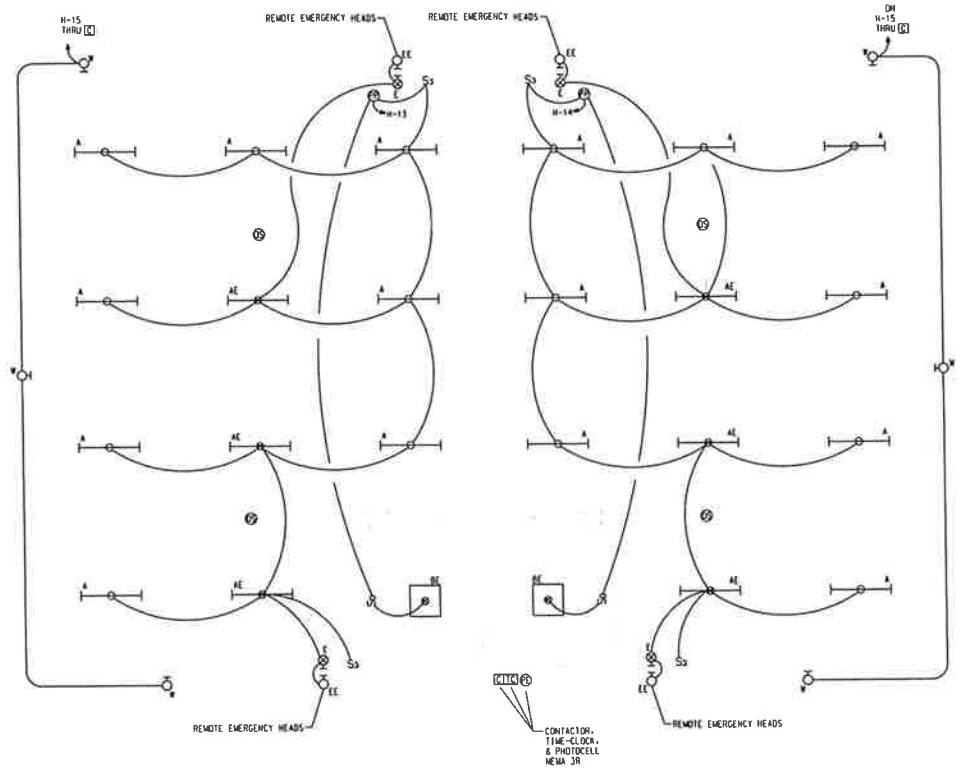
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PLUMBING
FLOOR PLAN

Project No.	1402.1
Issue Date	07/18/2025
Drawn By	E.E.I.
Revision Date	
Revision Date	
Revision Date	

P2.1
SHEET NO.

ENTECH
ENGINEERING
ELECTRICAL
FLOOR PLAN
SCALE: 1" = 40'-0"
FIBER CONDUIT DOWN & OUT TO NEW VOCATIONAL BUILDING. PROVIDE (2) 2" CONDUITS FOR FIBER & ANALOG CABLE TO NEW VOCATIONAL BUILDING.
E0.1
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EDUCATION BUILDING
LYLES, TENNESSEE
ELECTRICAL
FLOOR PLAN
Project No 1402.1
Issue Date 07/18/2025
Drawn By E.E.L.
Revision Date 09.05.2025
Revision Date
Revision Date
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LIGHTING
FLOOR PLAN

SCALE 1/4" = 1'-0"

GENERAL NOTES:

A. ALL EXIT AND EMERGENCY BATTERIES TO BE CONNECTED TO AN UNSWITCHED LEG OF THE LIGHTING CIRCUIT.

B. COORDINATE ALL MOUNTING HEIGHTS WITH ARCHITECTURAL ELEVATIONS.

C. ALL EXTERIOR LIGHTS ROUTED THROUGH THE LIGHTING CONTACTOR TO BE CONTROLLED WITH THE PHOTOCELL INTIATED TIMECLOCK. AIM PHOTOCELL TO THE NORTH EAST.

ENTECH ENGINEERING

ROBERT ALLEN ALBRITTON
STATE OF TENNESSEE

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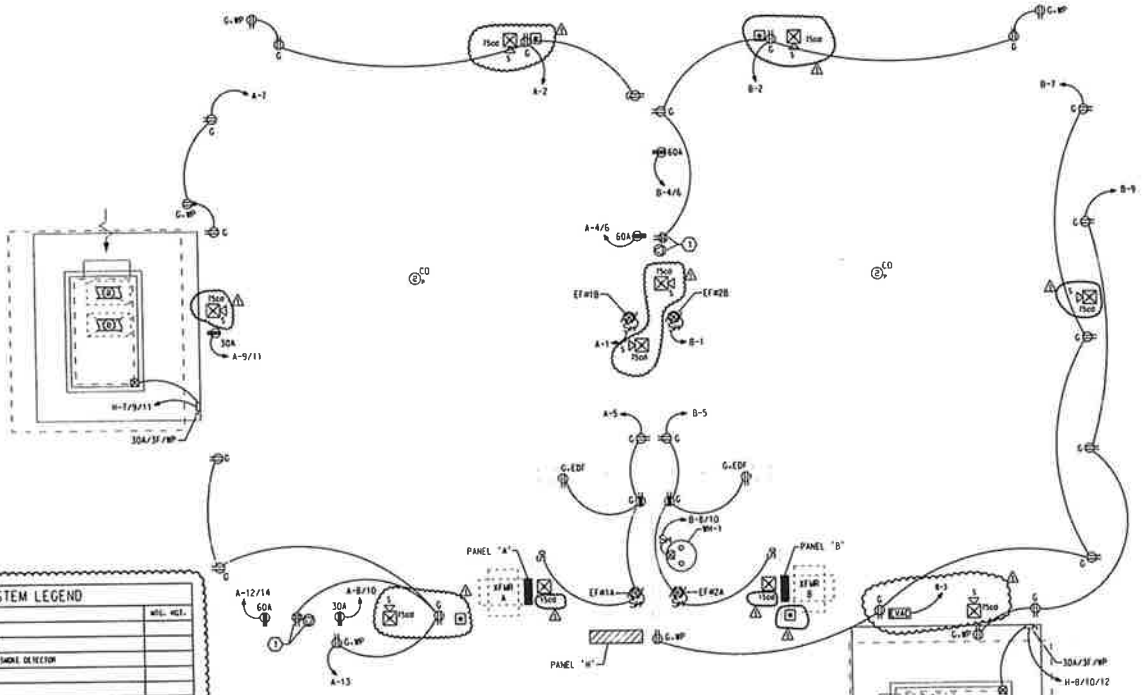
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LIGHTING
FLOOR PLAN

Project No:	1402.1
Issue Date:	07/18/2025
Drawn By:	E.E.I.
Revision Date:	
Revision Date:	
Revision Date:	

E1.1
SHEET NO.

ENTECH ENGINEERING



FIRE ALARM SYSTEM LEGEND

SYMBOL	DESCRIPTION	MOD. MOT.
	FIRE ALARM MANUAL PULL STATION	
	FIRE ALARM CEILING MOUNTED HEAT DETECTOR	
	FIRE ALARM CEILING MOUNTED PHOTOELECTRIC SMOKE DETECTOR	
	FIRE ALARM DUCT MOUNTED SMOKE DETECTOR	
	FIRE ALARM FLASHING LIGHT/HORN	
	FIRE ALARM FLASHING LIGHT	
	FIRE ALARM SPEAKER/STROBE	
	FIRE ALARM CONTROL PANEL - TOP CONTROL AT 5'	
	FIRE ALARM ANNUNCIATOR PANEL - TOP CONTROL AT 5'	
	FIRE ALARM DOOR HOLDER	
	FIRE ALARM FLOW DETECTOR/SWITCH	
	FIRE ALARM TAMPER DETECTOR/SWITCH	
	FIRE ALARM POST INDICATOR VALVE	
	FIRE ALARM CEILING PHOTOELECTRIC SMOKE DETECTOR WITH AUX. CONTACTOR FOR ELEVATOR RECALL	
	ELEVATOR ALARM "DO NOT USE ELEVATOR" - SEE SPECS.	
	FIRE ALARM VOICE EVACUATION CONTROL PANEL	
	FIRE ALARM VOICE EVACUATION AMP	

POWER/SYSTEMS
FLOOR PLAN

SCALE 1/4" = 1'-0"

GENERAL FIRE ALARM 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 8Tdb 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. COORDINATE INSTALLATION OF DUCT SMOKE DETECTORS WITH MECHANICAL.

GENERAL NOTES:

A. ALL 125-110V/1PH 15-20A RECEPTACLE CIRCUITS TO BE FITTED WITH GFCI PROTECTION.

B. ALL RECEPTACLES TO BE TAMPER-PROOF TYPE.

PLAN NOTES:

1. COORDINATE EXACT LOCATION WITH TEACHER DESK LOCATION WITH OWNER/ARCHITECT.

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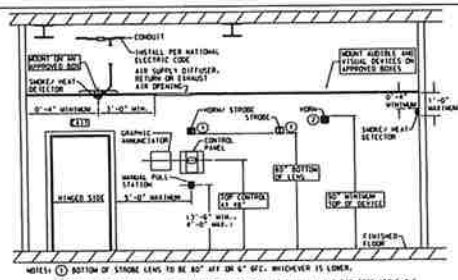
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POWER/SYSTEMS
FLOOR PLAN

Project No.	1402.1
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E2.1
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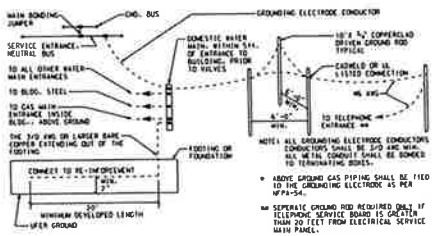


NOTES: ① BOTTOM OF STROBE LENS TO BE 80" AFF OR 6" BEL.- WHICHEVER IS LOWER.

② IF CEILING HEIGHTS ALLOW, WALL MOUNTED APPLIANCES SHALL HAVE THEIR TOPS ABOVE THE FINISHED FLOOR AT HEIGHTS OF NOT LESS THAN 90" AND BELOW THE FINISHED CEILING OF NOT LESS THAN 6".

NFPA 72 AND ADA DEVICE INSTALLATION REQUIREMENTS

C3 SCALE: NONE



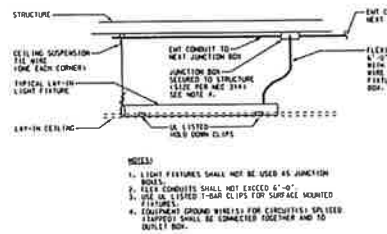
NOTES: ALL GROUNDING ELECTRODE CONDUCTORS CONDUCTORS SHALL BE 3/0 AWG MIN. ALL METAL CONDUIT SHALL BE BONDED TO TERMINATING BOXES.

* ABOVE GROUND GAS PIPING SHALL BE TIED TO THE GROUNDING ELECTRODE AS PER NFPA-54.

** SEPERATE GROUND ROD REQUIRED ONLY IF TELEPHONE SERVICE BOARD IS GREATER THAN 20 FEET FROM ELECTRICAL SERVICE MAIN PANEL.

SERVICE ENTRANCE GROUNDING

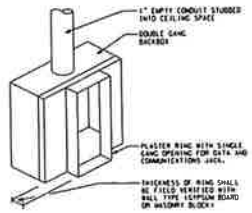
C1 SCALE: NONE



NOTES:
1. LIGHT FIXTURES SHALL NOT BE USED AS JUNCTION BOXES.
2. FLEX CONDUITS SHALL NOT EXCEED 6'-0".
3. USE UL LISTED T-BAR CLIPS FOR SURFACE MOUNTED FIXTURES.
4. EQUIPMENT GROUND WIRE(S) FOR CIRCUIT(S) SPLICED TOGETHER SHALL BE CONNECTED TOGETHER AND TO OUTLET BOX.

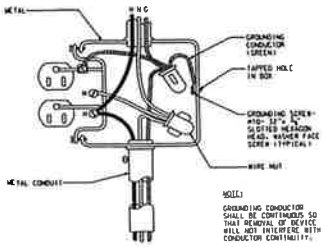
TYPICAL LAY-IN FIXTURE INSTALLATION

B5 SCALE: NONE



DATA & COMMUNICATIONS OUTLET DETAIL

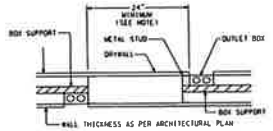
G11 SCALE: NONE



NOTE: GROUNDING CONDUCTOR SHALL BE CONTINUOUS SO THAT REMOVAL OF DEVICE WILL NOT INTERFERE WITH CONDUCTOR CONTINUITY.

RECEPTACLE GROUNDING DETAIL

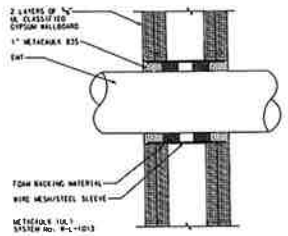
F5 SCALE: NONE



NOTE: THE MINIMUM SHOWN MAY BE REDUCED (IF APPROVED BY LOCAL AUTHORITY) WHEN "WALL OPENING PROTECTIVE MATERIALS" (CLIPS) ARE INSTALLED IN ACCORDANCE WITH THEIR CLASSIFICATION REQUIREMENTS. WHEN USED, UL CLASSIFIED MOLDABLE PUTTY PADS MUST BE USED ON BOTH BOXES.

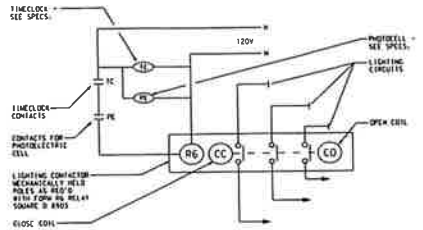
RECEPTACLE SEPARATION IN WALLS

F2 SCALE: NONE



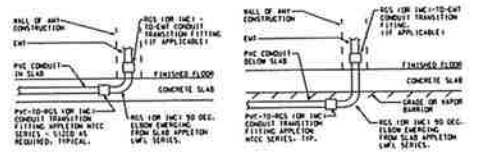
GYPSUM WALL PENETRATION - 2 HOUR RATING - METACAULK

G10 SCALE: NONE



MECHANICALLY HELD OUTSIDE LIGHTING CONTROL

J8 SCALE: NONE



CONDUIT TRANSITION: PVC-TO-RGS IN SLAB

G7 SCALE: NONE

CONDUIT TRANSITION: PVC-TO-RGS BELOW SLAB

SCALE: NONE

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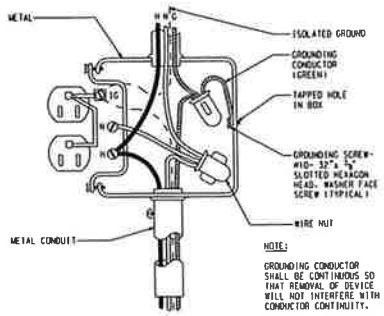
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ELECTRICAL DETAILS

Project No:	1402.1
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Drawn By:	E.E.I.
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Revision Date:	

E3.1
SHEET NO

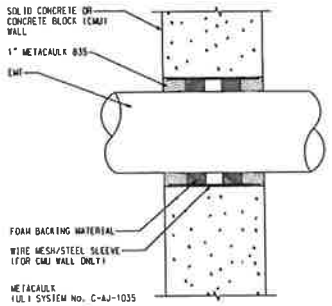
ENTECH ENGINEERING



ISOLATED GROUND RECEPTACLE INSTALLATION

SCALE: NONE

F7

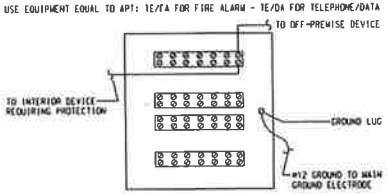


CONCRETE WALL PENETRATION - 2 HOUR RATING - METACAULK

SCALE: NONE

C9

USE EQUIPMENT EQUAL TO APT: TE/TA FOR FIRE ALARM - TE/DA FOR TELEPHONE/DATA



NOTES: 1. MOUNT DEVICE APPROXIMATELY 10' AWAY FROM FIRE ALARM PANEL OR TELEPHONE EQUIPMENT.

2. TERMINATE OFF-PREMISE CONDUCTORS ON INPUT SIDE OF DEVICE.

3. CONNECT OUTPUT SIDE OF DEVICE TO EQUIPMENT REQUIRING PROTECTION.

4. CONNECT THE GROUND LUG TO BUILDING GROUND WITH 3#12 COPPER WIRE.

TVSS INSTALLATION WIRING DIAGRAM
INCOMING DATA AND FIRE LINES

SCALE: NONE

J9

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EAST HICKMAN HIGH SCHOOL
AGRICULTURAL/VOCATIONAL EDUCATION BUILDING
LYLES, TENNESSEE

ELECTRICAL DETAILS

Project No.	1402.1
Issue Date	07/18/2025
Drawn By	E.E.I.
Revision Dates	
Revision Dates	
Revision Dates	

E3.2
SHEET NO.

ENTECH ENGINEERING

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG NUMBER	VOLT	LAMPS QTY	LAMPS TYPE	MOUNTING	REMARKS
A	COLUMBIA	MPS4-40HL-CW-EDU	120/277	--	37.6W LED	SURFACE	4' LINEAR STRIP
AE	COLUMBIA	MPS4-40HL-CW-EDU-ELL14	120/277	--	37.6W LED	SURFACE	4' LINEAR STRIP W/ EM BATTERY
BE	COLUMBIA	LCAT22-S-40L044SM-EDU-ELL14	120/277	--	29.7W LED	SURFACE	2X2 W/ EM BATTERY
W	EXD	PRL-C-LS-4K	120/277	--	35W LED	SURFACE	WALLPACK
E	COMPASS	CCRGRC	120/277	--	--	UNV	EXIT SIGN
EE	COMPASS	CORD	120/277	--	--	UNV	REMOTE HEADS

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 MULTI-WIRE BRANCH CIRCUITS TO COMPLY WITH 2017 NEC 210.4

GENERAL ELECTRICAL LEGEND

SYMBOL	DESCRIPTION	MTG. HGT.
○	CEILING OUTLET, SURFACE FIXTURE	
⊛	CEILING OUTLET, SURFACE FIXTURE w/BATTERY BACK UP	
⊘	CEILING OUTLET, RECESSED FIXTURE	
⊛	CEILING OUTLET, RECESSED FIXTURE w/BATTERY BACK UP	
○H	BRACKET OUTLET	
	SURFACE FLUORESCENT LIGHTING FIXTURE	
	RECESSED FLUORESCENT LIGHTING FIXTURE	
	FLUORESCENT STRIP LIGHT FIXTURE	
⊗	EXIT LIGHT, ARROWS AS SHOWN, ON LIFE SAFETY CIRCUIT	
⊠	EMERGENCY LIGHT WALL MOUNTED AT 7'-6" AFF, UON	
S	SINGLE POLE SWITCH	48" AFF
S3	THREE-WAY SWITCH	48" AFF
S4	FOUR-WAY SWITCH	48" AFF
SD	DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH	48" AFF
⊖	DUPLEX GROUNDING RECEPTACLE	18" AFF
⊖	DUPLEX GROUNDING RECEPTACLE	ABC
⊙	FLOOR RECEPTACLE	
⊕	DOUBLE DUPLEX GROUNDING RECEPTACLE	18" AFF
J	JUNCTION OR PULL BOX	
	MOTOR. C.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	
PE	PHOTO-ELECTRIC SWITCH - AIM NORTHEAST. SEE SPECS	
T	THERMOSTAT, SEE MECHANICAL	
	CONDUIT, CONCEALED IN CEILING OR WALL	
	CONDUIT, CONCEALED IN SLAB OR BELOW FLOOR/GRADE	
	CONDUIT, EXPOSED	
	CONDUIT, TURNING UP	
	CONDUIT, TURNING DOWN	
—EP—	CONDUIT, ELECTRICAL PRIMARY	
—ES—	CONDUIT, ELECTRICAL SECONDARY	
WP	WEATHERPROOF	
G	GROUND FAULT CURRENT INTERRUPTING	
AFF	ABOVE FINISHED FLOOR	
ABC	ABOVE COUNTER	
UC	UNDERCOUNTER	
UON	UNLESS OTHERWISE NOTED	
GC	GENERAL CONTRACTOR	
MC	MECHANICAL CONTRACTOR	
EC	ELECTRICAL CONTRACTOR	
EDF	ELECTRIC DRINKING FOUNTAIN	
WH	WATER HEATER	
RTU	ROOF TOP UNIT	
TTB	TELEPHONE TERMINAL BOARD	
	MULTI USE OUTLET FOR VOICE, DATA, VIDEO (1"C. TO ABOVE CEILING)	18" AFF
OS	CEILING MOUNTED, DUAL TECHNOLOGY OCCUPANCY SENSOR	
PP	POWER PACK	
	AREA OR STREET LIGHTING FIXTURE	

△

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ELECTRICAL
LEGENDS AND SCHEDULES

Project No:	1402.1
Issue Date:	07/18/2025
Drawn By:	E.E.I.
Revision Date:	△ 09.05.2025
Revision Date:	
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E5.1
SHEET NO.

PANEL H	TYPE NLINE	MOUNTING _SURFACE	AMPS SIC 42000	FDR NO OR
VOLTAGE 277/480V 3P 4W		MAINS 400 AMP MCB	SECTIONS 1	SERVICE FROM MDP

FUSE/BKR AMPS	PLS	FDR NO	SERVES	CKT KW	POLE NO	PHASE KW A	PHASE KW B	PHASE KW C	POLE NO	CKT KW	SERVES	FDR NO	FUSE/BKR AMPS	PLS
110	3	G2	XFMR A	2 44	1	6 74	–	–	2	4 30	XFMR B	G2	110	3
				8 22	3	–	16 32	–	4	8 10				
				7 93	5	–	–	13 52	6	5 59				
20	3	A3	AC#1	4 43	7	8 86	–	–	8	4 43	AC#2	A3	20	3
				4 43	9	–	8 86	–	10	4 43				
				4 43	11	–	–	8 86	12	4 43				
20	1	A2	LIGHTING SIDE 1	1 20	13	2 40	–	–	14	1 20	LIGHTING SIDE 2	A2	20	1
20	1	A2	EXTERIOR LIGHTING	1 00	15	–	1 00	–	16	0 00	SPARE		20	1
20	1		SPARE	0 00	17	–	–	0 00	18	0 00	SPARE		20	1
20	1		SPARE	0 00	19	0 00	–	–	20	0 00	SPARE		20	1
20	1		SPARE	0 00	21	–	0 00	–	22	0 00	SPACE		20	1
20	1		SPARE	0 00	23	–	–	0 00	24	0 00	SPACE		20	1
20	1		SPACE ONLY	0 00	25	0 00	–	–	26	0 00	SPD	B3	30	3
20	1		SPACE ONLY	0 00	27	–	0 00	–	28	0 00				
20	1		SPACE ONLY	0 00	29	–	–	0 00	30	0 00				
			TOTALS			18 00	26 18	22 30						
			TOTAL	96 58										

PANEL B	TYPE NOOD	MOUNTING _SURFACE	AMPS SIC 10000	FDR NO N5
VOLTAGE 120/208V 3P 4W		MAINS 225 AMP MCB	SECTIONS 1	SERVICE FROM XFMR B

FUSE/BKR AMPS	PLS	FDR NO	SERVES	CKT KW	POLE NO	PHASE KW A	PHASE KW B	PHASE KW C	POLE NO	CKT KW	SERVES	FDR NO	FUSE/BKR AMPS	PLS
20	1	A2	EF#2B	1 18	1	1 90	–	–	2	0 72	REC - BY DOOR	A2	20	1
20	1	A2	FIRE ALARM EVAC	1 20	3	–	3 66	–	4	4 68	60A RECEPT	D1	60	2
20	1	A2	EDF EF#2A RECEPTS	0 91	5	–	–	5 58	6	4 68				
20	1	A2	REC - EAST	0 90	7	2 40	–	–	8	1 50	WH-1	A2	20	2
20	1	A2	REC - EAST	0 72	9	–	2 22	–	10	1 50				
20	1		SPARE	0 00	11	–	–	0 00	12	0 00	SPARE		20	1
20	1		SPARE	0 00	13	0 00	–	–	14	0 00	SPD	B3	30	3
20	1		SPARE	0 00	15	–	0 00	–	16	0 00				
20	1		SPARE	0 00	17	–	–	0 00	18	0 00				
20	1		SPARE	0 00	19	0 00	–	–	20	0 00	SPACE ONLY		20	1
20	1		SPARE	0 00	21	–	0 00	–	22	0 00	SPACE ONLY		20	1
20	1		SPARE	0 00	23	–	–	0 00	24	0 00	SPACE ONLY		20	1
20	1		SPACE ONLY	0 00	25	0 00	–	–	26	0 00	SPACE ONLY		20	1
20	1		SPACE ONLY	0 00	27	–	0 00	–	28	0 00	SPACE ONLY		20	1
20	1		SPACE ONLY	0 00	29	–	–	0 00	30	0 00	SPACE ONLY		20	1
20	1		SPACE ONLY	0 00	31	0 00	–	–	32	0 00	SPACE ONLY		20	1
20	1		SPACE ONLY	0 00	33	–	0 00	–	34	0 00	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	SPACE ONLY		20	1
20	1		SPACE ONLY	0 00	39	–	0 00	–	40	0 00	SPACE ONLY		20	1
20	1		SPACE ONLY	0 00	41	–	–	0 00	42	0 00	SPACE ONLY		20	1
			TOTALS			4 30	8 10	5 58						
			TOTAL	17 99										

PANEL A	TYPE NOOD	MOUNTING _SURFACE	AMPS SIC 10000	FDR NO N5
VOLTAGE 120/208V 3P 4W		MAINS 225 AMP MCB	SECTIONS 1	SERVICE FROM XFMR A

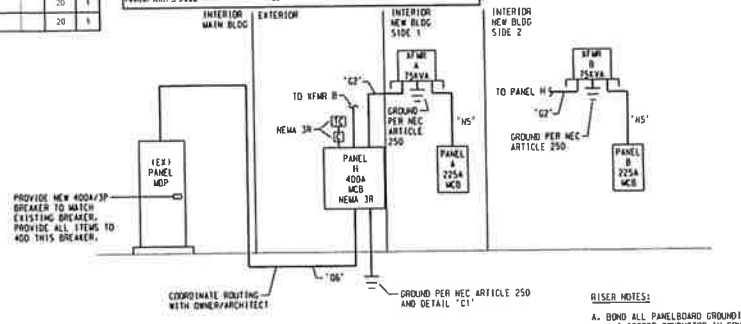
FUSE/BKR AMPS	PLS	FDR NO	SERVES	CKT KW	POLE NO	PHASE KW A	PHASE KW B	PHASE KW C	POLE NO	CKT KW	SERVES	FDR NO	FUSE/BKR AMPS	PLS
20	1	A2	EF#1B	1 18	1	1 90	–	–	2	0 72	REC - BY DOOR	A2	20	1
20	1		SPARE	1 20	3	–	5 66	–	4	4 68	60A RECEPT	D1	60	2
20	1	A2	EDF EF#1A RECEPTS	0 91	5	–	–	5 58	6	4 68				
20	1	A2	REC - WEST	0 54	7	0 54	–	–	8	0 00	SPARE		20	1
30	2	B1	30A REC	2 34	9	–	2 34	–	10	0 00	SPARE		20	1
				2 34	11	–	–	2 34	12	0 00	SPARE		20	1
20	1		SPARE	0 00	13	0 00	–	–	14	0 00	SPD	B3	30	3
20	1		SPARE	0 00	15	–	0 00	–	16	0 00				
20	1		SPARE	0 00	17	–	–	0 00	18	0 00				
20	1		SPACE ONLY	0 00	19	0 00	–	–	20	0 00	SPACE ONLY		20	1
20	1		SPACE ONLY	0 00	21	–	0 00	–	22	0 00	SPACE ONLY		20	1
20	1		SPACE ONLY	0 00	23	–	–	0 00	24	0 00	SPACE ONLY		20	1
20	1		SPACE ONLY	0 00	25	0 00	–	–	26	0 00	SPACE ONLY		20	1
20	1		SPACE ONLY	0 00	27	–	0 00	–	28	0 00	SPACE ONLY		20	1
20	1		SPACE ONLY	0 00	29	–	–	0 00	30	0 00	SPACE ONLY		20	1
20	1		SPACE ONLY	0 00	31	0 00	–	–	32	0 00	SPACE ONLY		20	1
20	1		SPACE ONLY	0 00	33	–	0 00	–	34	0 00	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	SPACE ONLY		20	1
20	1		SPACE ONLY	0 00	39	–	0 00	–	40	0 00	SPACE ONLY		20	1
20	1		SPACE ONLY	0 00	41	–	–	0 00	42	0 00	SPACE ONLY		20	1
			TOTALS			2 44	8 22	7 93						
			TOTAL	18 59										

LOAD SUMMARY			
Panel H	Volts 480		Phase 3

Load Type	Connected KW	Demand Factor	Demand KW	Phase AMPS
LIGHTING	3 40	1 00	3 40	4 09
RECEPTACLES	27 00	—	18 50	22 25
MISC	6 58	1 00	6 58	7 91
HEATING	0 00	1 00	0 00	0 00
COOLING	26 58	1 00	26 58	31 97
KITCHEN EQUIP	0 00	1 00	0 00	0 00
MEDICAL EQUIP	0 00	1 00	0 00	0 00
MOTORS	0 00	1 00	0 00	0 00
ELEVATORS	0 00	1 00	0 00	0 00
WATER HEATERS	3 00	1 00	3 00	3 61
SPARE CAPACITY	0 00	1 00	0 00	0 00
Total	68 56	—	58 06	69 84
Minimum feeder AMPS	1 25	X	69 84	87 29
Feeder AMPS used	400			

BRANCH CIRCUIT AND FEEDER LEGEND

FEEDER NO.	CONDUIT AND WIRE
A2	½" - 2 #12 & 1 #12 GND.
A3	¾" - 3 #12 & 1 #12 GND.
B1	¾" - 2 #10 & 1 #10 GND.
B3	¾" - 4 #10 & 1 #10 GND.
D1	1" - 2 #6 & 1 #10 GND.
N5	2½" - 4 #4/0 & 1 #2 GND.
G2	1¼" - 3 #2 & 1 #6 GND.
06	4" - 4 #600MCM & 1 #3 GND.



277/480 VOLT,3 PHASE,4 WIRE
ELECTRICAL RISER DIAGRAM

SCALE: NONE

RISER NOTES:

A. BOND ALL PANELBOARD GROUNDING BUSSES TOGETHER WITH MINIMUM #10 AWG COPPER CONDUCTOR IN CONDUIT IN ACCORDANCE WITH NEC 517.14

B. TRANSFORMERS SHALL BE GROUNDED IN ACCORDANCE WITH NEC ARTICAL 250 AND DETAIL C4.

C. EXISTING EQUIPMENT IS DENOTED WITH '(EX)'.

ENTECH ENGINEERING

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ELECTRICAL RISER AND PANELBOARDS

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