MUSIC ROOM ADDITION FOR

OUR LADY OF FATIMA

858 LOUISVILLE RD
ALCOA, TN

PLANS REVIEW DATA

CITY OF ALCOA GOVERNING CODES & GUIDELINES

2018 INTERNATIONAL BUILDING CODE
2018 INTERNATIONAL EXISTING BUILDING CODE
2018 INTERNATIONAL ENERGY CONSERVATION CODE
2018 INTERNATIONAL MECHANICAL CODE
2018 INTERNATIONAL PLUMBING CODE
2018 INTERNATIONAL FUEL GAS CODE
2018 INTERNATIONAL FIRE CODE
2017 NATIONAL ELECTRICAL CODE
2009 ICC / ANSI A117.1

STATEMENT OF INTENT

GEORGE ARMOUR EWART, ARCHITECT HAS, TO THE BEST OF ITS PROFESSIONAL EFFORTS, DESIGNED AND PRODUCED THESE DRAWINGS TO COMPLY WITH ALL LOCAL, STATE, AND FEDERAL CODES APPLICABLE TO THIS PROJECT ON THE DAY OF ISSUANCE, WITHOUT BEING SUBJECT TO JUDICIAL INTERPRETATION AND TO BEST OF OUR KNOWLEDGE, THESE DRAWINGS ARE ALSO IN COMPLIANCE WITH THE 2010 AMERICANS WITH DISABILITIES ACT(ADA) STANDARDS FOR ACCESSIBLE DESIGN.

OWNER

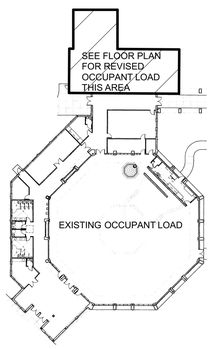
OUR LADY OF FATIMA

PROJECT ADDRESS

858 LOUISVILLE RD
ALCOA, TN 37701

OCCUPANCY CLASSIFICATION

IBC: GROUP A-3, ASSEMBLY



BUILDING CLASSIFICATION

TYPE V, UNPROTECTED, SPRINKLERED, ONE-STORY

STRUCTURAL FRAME

0

BEARING WALLS

EXTERIOR: 0
INTERIOR: 0

NON-BEARING WALLS & PARTITIONS

EXTERIOR: 0
INTERIOR: 0

FLOOR CONSTRUCTION

0

ROOF CONSTRUCTION

0

FLOOR AREA

NUMBER OF STORIES: 1 (3 MAX.)
MAX AREA ALLOWED: 24,000 S.F.
EXISTING AREA: 18,200 S.F.
NEW ADDITION AREA: 961 S.F.
NEW TOTAL AREA: 19,161 S.F.

ENERGY CONSERVATION:

1. THIS BUILDING HAS BEEN DESIGNED TO BE COMPLIANT WITH THE REQUIREMENTS OF CHAPTER 4 OF THE 2018 INTERNATIONAL ENERGY CONSERVATION CODE (CLIMATE ZONE 4)
2. ROOFS, WITH INSULATION ENTIRELY ABOVE DECK, ARE DESIGNED TO EXCEED R-30ci
3. ROOFS, WITH INSULATION IN ATTIC, ARE DESIGNED TO EXCEED R-38
4. METAL BUILDING ROOFS, ARE DESIGNED TO EXCEED R-19 + R-11 LS
5. MASS WALLS, ABOVE GRADE, ARE DESIGNED TO EXCEED R-9.5ci
6. METAL FRAMED WALLS, ABOVE GRADE, ARE DESIGNED TO EXCEED R-13 + R-7.5ci
7. METAL BUILDING WALLS, ABOVE GRADE, ARE DESIGNED TO EXCEED R-13 + R-13ci
8. WALLS, BELOW GRADE, ARE DESIGNED TO EXCEED R-7.5ci
9. THERE ARE NO FLOORS ABOVE OUTDOOR OR UNCONDITIONED SPACES.
10. SLAB-ON-GRADE UNHEATED FLOORS ARE DESIGNED TO EXCEED R-10 FOR 24" BELOW.
11. SWINGING DOORS ARE DESIGNED TO BE LESS THAN U - 0.61
12. VERTICAL FENESTRATION:
    FIXED FENESTRATION SHALL HAVE A U-FACTOR LESS THAN U - 0.38
    OPERABLE FENESTRATION SHALL HAVE A U-FACTOR LESS THAN U - 0.45
    ENTRANCE DOORS SHALL HAVE A U-FACTOR LESS THAN U - 0.77.SHGC SHALL BE:
    SEW (PF<0.2=0.36max) (0.2≤PF<0.5=0.43max) (PF≥0.5=0.58max)
    N (PF<0.2=0.48max) (0.2≤PF<0.5=0.53max) (PF≥0.5=0.58max)
13. SKYLIGHTS SHALL HAVE A U-FACTOR OF LESS THAN 0.50 AND A SHGC OF LESS THAN 0.40

ABBREVIATIONS

ACT	ACOUSTICAL TILE
AFF	ABOVE FINISH FLOOR
ALT	ALTERNATE
ALUM	ALUMINUM
BLKG	BLOCKING
BLDG.	BUILDING
CAB	CABINET
CT	CERAMIC TILE
C/C	CENTER TO CENTER
CCT	CUBICLE CURTAIN TRACK
C/L or CL	CENTER LINE
CG	CORNER GUARD
CLR	CLEAR
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE BLOCK MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
CPT	CARPET
DBL.	DOUBLE
DF	DRINKING FOUNTAIN
DFG	DOOR FRAME GUARD
DS	DOWNSPOUT
DT	DRAPERY TRACK
ECG	EXISTING CORNER GUARD
ELEV.	ELEVATION
EP	ELECTRICAL PANEL
EWC	ELECTRIC WATER COOLER
EXP. JT. or EJ	EXPANSION JOINT
EXIST or EX	EXISTING
FF.	FINISH FLOOR
FCU	FAN COIL UNIT
FIN	FINISH
FOB	FACE OF BRICK
FOM	FACE OF MASONRY
FOS	FACE OF STUD
F/F	FACE TO FACE
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FHC	FIRE HOSE CABINET
GALV.	GALVANIZED
GB	GRAB BAR
GC or GEN. CON	GENERAL CONTRACTOR
GFI	GROUND FAULT INTERRUPT
GP.	GUARD POST
GYP. BD.	GYPSUM BOARD
HC	HANDICAP
HPDL	HIGH PRESSURE DECORATIVE LAMINATE
INSUL.	INSULATION
INV.	INVERT (ELEVATION)
JT.	JOINT
MBL	MARBLE
MTL.	METAL
N/A	NOT APPLICABLE
NC	NONE COMBUSTIBLE
NIC	NOT IN CONTRACT
NOM	NOMINAL
OC	ON CENTER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OH or OPP HD	OPPOSITE HAND
OS/OS	OUTSIDE TO OUTSIDE
P. LAM or PL	PLASTIC LAMINATE
PART	PARTIAL
PLAST	PLASTER
PT	PAINT
PTD	PAPER TOWEL DISPENSER
PTME	PATCH TO MATCH EXISTING
PTN	PARTITION
REF.	REFRIGERATOR
REV	REVISION
SD	SOAP DISPENSER
SF or SQ. FT	SQUARE FEET
SQ. IN	SQUARE INCHES
SHV	SHEET VINYL
T&G	TONGUE AND GROOVE
TOS	TOP OF STEEL
TME	TO MATCH EXISTING
TWL	TOWEL BAR
TKBD	TACK BOARD
TPH	TOILET PAPER HOLDER
UNO	UNLESS NOTED OTHERWISE
V	VINYL
VCT	VINYL COMPOSITION TILE
VIF	VERIFY IN FIELD
WC	WALL COVERING OR WATER CLOSET
WD	WOOD
WG	WALL GUARD

DRAFTING CONVENTIONS

CONCRETE MASONRY (PLAN)
CONCRETE MASONRY (SECTION)
BRICK
CONCRETE
PRECAST CONCRETE
STONE
STEEL
GYPSUM BOARD
PLYWOOD OR COMPOSITE WOOD
RIGID BOARD INSULATION
BATT OR LOOSE INSULATION
FINISH WOOD
SOUND INSULATED PARTITION
1 HOUR RATED PARTITION
2 HOUR RATED PARTITION
SMOKE RESISTANT WALL
CENTERLINE / COLUMN LINE

GRAPHICS SYMBOLS

101 — DOOR NO. DESIGNATION
XX — REVISION MARKER
W1 — WINDOW DESIGNATION
1 / 1 — DETAIL OR SECTION NO. / SHEET DRAWN ON
1/X.XX — INTERIOR ELEVATION NO. / SHEET DRAWN ON
1 / 1 — SECTION NO. / SHEET DRAWN ON
1 / 1 — EXTERIOR ELEVATION / SHEET DRAWN ON
1 / 1 — ENLARGED AREA / SHEET DRAWN ON
1 — INTERIOR PARTITION TYPE

GENERAL NOTES:

1. CONTRACTOR SHALL VERIFY ALL ON-SITE DIMENSIONS. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL OBTAIN WRITTEN CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING WITH CONSTRUCTION.
2. DIMENSIONS ARE REFERENCED TO FACE OF NEW INTERIOR STUD WALLS, COLUMN CENTERLINES & TO THE FACE OF EXTERIOR WALLS UNLESS OTHERWISE INDICATED.
3. PROVIDE PRESSURE TREATED WOOD FOR CONCEALED MEMBERS IN CONTACT WITH MASONRY OR CONCRETE.
4. PROVIDE FIRE-RETARDANT TREATED WOOD BLOCKING IN WALLS TO SUPPORT EQUIPMENT, RAILINGS, ACCESSORIES, DRAPERY TRACKS, RECESSED ITEMS, ETC. AS REQD. HANDRAILS, GRAB BARS AND WALL MOUNTED TOILET FIXTURES SHALL BE INSTALLED TO WITHSTAND A MIN. VERT. OR HORIZ. FORCE OF 250 LBS.
5. MAINTAIN THE INTEGRITY OF RATED WALLS AT ELECTRICAL PANELS, FIRE EXTINGUISHER CABINETS & ALL RECESSED EQUIPMENT. FOR ALL RATED PARTITIONS, THE SURFACE AREA OF INDIVIDUAL METALLIC OUTLET OR SWITCH BOXES SHALL NOT EXCEED 16 SQUARE INCHES. THE AGGREGATE SURFACE AREA OF THE BOXES SHALL NOT EXCEED 100 SQUARE INCHES PER 100 SQUARE FEET. BOXES LOCATED ON OPPOSITE SIDES OF WALLS OR PARTITIONS SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF 24 INCHES MINIMUM.
6. ALL RATED PARTITIONS SHALL BE TIGHTLY SEALED TO THE UNDERSIDE OF DECK. INTEGRITY OF RATED PARTITIONS SHALL BE MAINTAINED AT CORNERS AND INTERSECTIONS OF OTHER PARTITION TYPES.
7. EACH PENETRATION IN RATED PARTITIONS FOR CONDUIT, PIPING OR OTHER ITEMS SHALL BE PROTECTED BY AN APPROVED UL-LISTED ASSEMBLY TO PROHIBIT THE PASSAGE OF FIRE AND SMOKE.
8. CONTRACTOR SHALL VERIFY AND COORDINATE ROUTING, PLACEMENT, SPACE & CLEARANCE REQUIREMENTS FOR MECHANICAL, ELECTRICAL, & OTHER TRADES - REFERENCE PLUMBING, MECHANICAL & ELECTRICAL DRAWINGS.
9. ALL PIPING ABOVE GRADE AND INSIDE THE BUILDING SHALL BE CONCEALED, EXCEPT MECHANICAL EQUIPMENT ROOMS. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES TO PROVIDE FURRING FOR PIPING INSTALLED IN FINISHED AREAS.
10. THE CONTRACTOR SHALL FURNISH ACCESS PANELS IN WALLS AND NON-ACCESSIBLE TYPE CEILINGS WHERE SERVICE AND ADJUSTMENT TO MECHANICAL, PLUMBING, AND ELECTRICAL ITEMS MAY BE REQUIRED. ACCESS PANELS SHALL HAVE A FIRE RATING EQUAL TO THAT OF THE SURFACE IN WHICH THEY OCCUR. LOCATION OF ACCESS PANELS SHALL BE APPROVED BY THE ARCHITECT PRIOR TO THE APPLICATION OF GYPSUM BOARD.
11. ALL CASEWORK DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO UNIT FABRICATION.
12. SEAL ALL PENETRATIONS IN THE EXTERIOR ENVELOPE AIR TIGHT AT BOTH THE INTERIOR (VAPOR RETARDER AND GYPSUM BOARD) AND EXTERIOR (SHEATHING AND AIR BARRIER) FACES.
13. UNLESS THIS PROJECT IS BEING BID, THE INTENT OF THESE DRAWINGS IS TO BE PART OF A "DESIGN BUILD" PROJECT. ALTHOUGH THE ARCHITECT HAS ATTEMPTED TO SHOW ALL CONSTRUCTION, THE ARCHITECT AND CONTRACTOR ARE TO COORDINATE ANY AREAS NOT NOTED ON THESE DRAWINGS. ANY ADDITIONAL INFORMATION REQUIRED WILL BE PROVIDED DURING CONSTRUCTION.

PROJECT NO.: 21074

DRAWING LOG

ISSUE DATE: 11 APRIL 2022

INDEX TO DRAWINGS

CONSULTANTS

CIVIL ENGINEER

STERLING ENGINEERING, INC.
1020 WILLAM BLOUNT DR.
MARYVILLE, TN 37802
(865) 984-3905

STRUCTURAL ENGINEER

BENDER & ASSOCIATES
110 FOREST CT.
KNOXVILLE, TN 37919
(865) 584-6532

MECHANICAL ENGINEER

ALBERT BEDINGER CONSULTING ENGINEERS
5641 MERCHANTS CENTER BLVD., SUITE A104
KNOXVILLE, TN 37912
(865) 637-8339

ELECTRICAL ENGINEER

VREELAND ENGINEERS
3107 SUTHERLAND AVE.
KNOXVILLE, TN 37919
(865) 637-4451

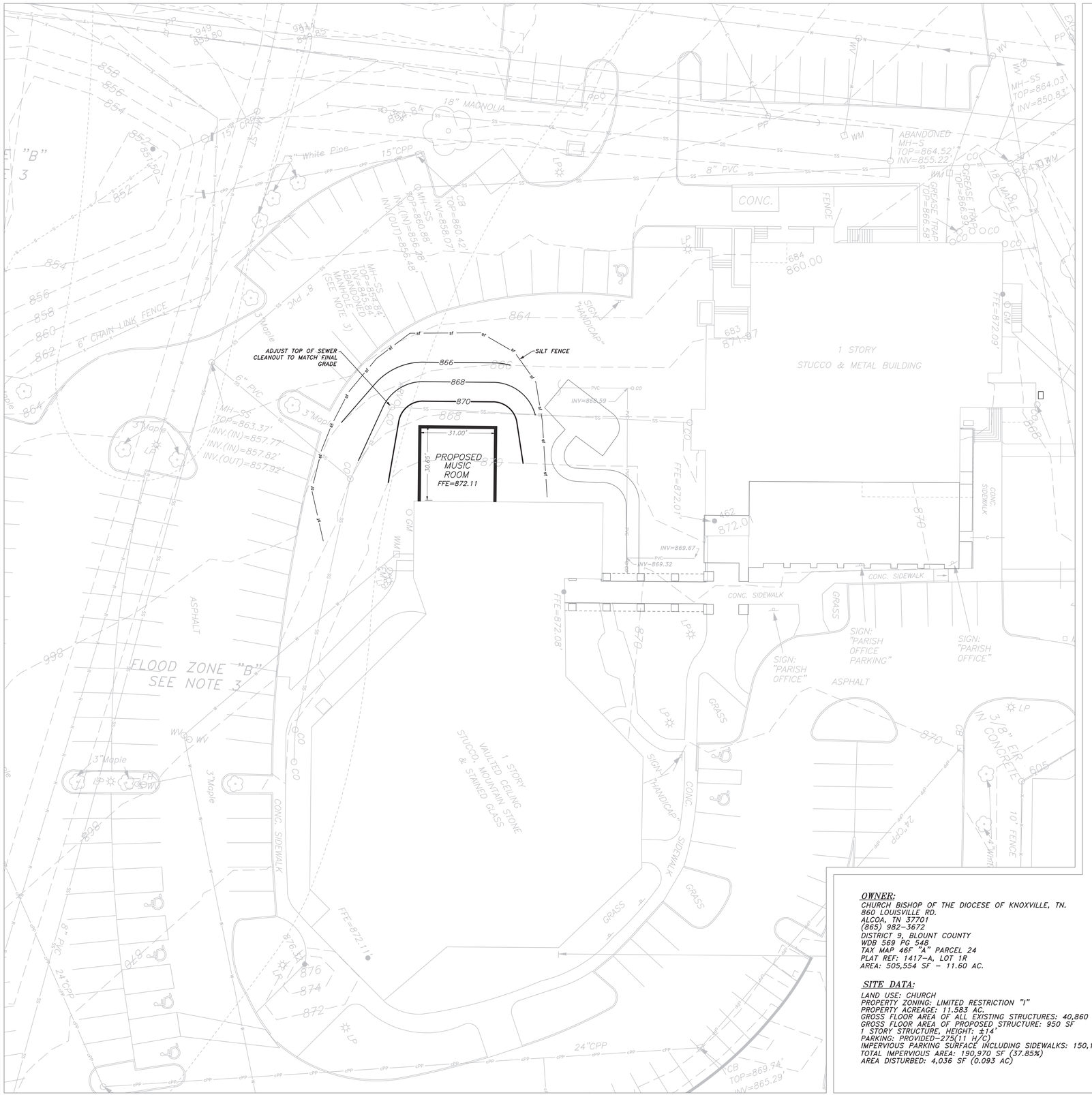
LOCATION MAP

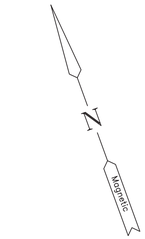
GEORGE ARMOUR EWART ARCHITECT
404 Bearden Park Circle
Knoxville, TN 37919
865.602.7771
Fax 865.602.7742
www.georgeewart.com

GEORGE A. EWART — REGISTERED ARCHITECT — STATE OF TENNESSEE — No. 23161
11 APRIL 2022

JOSEPH CONSTRUCTION

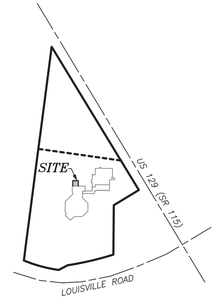
PROJECT NO.: 21074
ISSUE DATE: 11 APRIL 2022
SET #:





20' 10' 0 20' 40'

1" = 20'



LOCATION MAP
NOT TO SCALE

GENERAL SITE NOTES:

1. The Contractor shall install erosion control measures such as silt fencing and straw bale barriers as needed to prevent siltation of adjoining properties and existing drainage ways. Such devices shall be maintained until construction is complete and permanent vegetation is established.
2. All landscaping shall be done in accordance with the City of Alcoa Tree/Landscape Ordinance.
3. All signage must be approved by the C.O.A. Planning Department.
4. The Contractor shall notify the Engineer immediately if discrepancies or omissions are found or if clarifications are required on the plans.
5. Topographic survey and boundary information based on survey by Sterling Engineering dated 09/27/04. 2 foot Contour Interval shown.
6. Actual location of all underground utilities should be verified through Tennessee 1 Call (1-800-351-1111) or the utility provider prior to any excavation or construction.
7. The contractor shall follow the City of Alcoa Erosion & Sediment Control Ordinance 04-041.
8. Water service and electric service will be provided from existing lines. Coordinate with the City of Alcoa.
9. Erosion prevention and sediment control best management practices shall follow the approved plan details and the Tennessee Erosion and Sediment Control Handbook, latest edition.
10. Erosion prevention and sediment control and other measures for the control of other construction related wastes shall be in place and functional before a grading permit is issued.

BUILDING SETBACKS:

30' FROM FRONT PROPERTY LINES
10' FROM SIDE PROPERTY LINES
35' FROM REAR PROPERTY LINES

LEGEND:

EIR	EXISTING IRON ROD
EIP	EXISTING IRON PIPE
Ac.	ACRES
SF	SQUARE FEET
WDB	WARRANTY DEED BOOK
PG	PAGE
TYP	TYPICAL
R/W	RIGHT-OF-WAY
CB	CATCH BASIN
℄	CENTERLINE
CO	SEWER CLEANOUT
DRAIN	DRAIN
EB	ELECTRIC BOX
FH	FIRE HYDRANT
FM	FIRE MAIN CONNECTION
GM	GAS METER
GV	GAS VALVE
	HANDICAP PARKING
MB	MAIL BOX
MH	MANHOLE (EXISTING)
MH-E	MANHOLE (ELECTRIC)
MH-ST	MANHOLE (STORM SEWER)
LP	LIGHT POLE (LP)
MP	METAL POLE
PP	POWER POLE (PP)
TLP	TRAFFIC LIGHT POLE (TLP)
	SIGN (POST)
•999.99'	SPOT HEIGHT
SSO	SEWER STUB-OUT PIPE
	TEMPORARY BENCHMARK
TM	U/G TELEPHONE MONUMENT
	TREE
TSB	TRAFFIC SIGNAL BOX
WM	WATER METER
WV	WATER VALVE
	BOUNDARY LINE
	ROAD RIGHT-OF-WAY LINE
	EASEMENT LINE
	ROAD CENTERLINE
	EDGE OF ROAD
	EDGE OF GRAVEL/ROAD
	CONCRETE CURB
	PARKING/LANE STRIPES (EXISTING)
scP	SMOOTH-WALL PLASTIC PIPE (SCP)
cPP	CORRUGATED PLASTIC PIPE (CPP)
C	CORRUGATED METAL PIPE (CMP)
R	REINFORCED CONCRETE PIPE (RCP)
X	FENCE LINE
E	ELECTRIC LINE (OVERHEAD)
T	PHONE LINE
G	GAS LINE
W	WATER LINE (EXISTING)
SS	SEWER LINE (EXISTING)
	RETAINING/HEAD WALL
	FLOODWAY LINE
S	SWALE LINE
d	DITCH LINE
	LAKE/RIVER/CREEK LINE
	BUILDING CANOPY LINE
	RIP RAP LINE
	ROCK OUTCROP LINE
	EXISTING INTERMEDIATE CONTOUR
900	EXISTING INDEX CONTOUR
	PLAYGOUND AREA
	LANDSCAPE TIMBER
sf	SILT FENCE
PVC	PERIMETER BUILDING STORM LINE

OWNER:

CHURCH BISHOP OF THE DIOCESE OF KNOXVILLE, TN.
860 LOUISVILLE RD.
ALCOA, TN 37701
(865) 982-3672
DISTRICT 9, BLOUNT COUNTY
WDB 569 PG 548
TAX MAP 46F "A" PARCEL 24
PLAT REF: 1417-A, LOT 1R
AREA: 505,554 SF - 11.60 AC.

SITE DATA:

LAND USE: CHURCH
PROPERTY ZONING: LIMITED RESTRICTION "I"
PROPERTY ACREAGE: 11.583 AC.
GROSS FLOOR AREA OF ALL EXISTING STRUCTURES: 40,860 SF
GROSS FLOOR AREA OF PROPOSED STRUCTURE: 950 SF
1 STORY STRUCTURE, HEIGHT: ±14'
PARKING: PROVIDED-275(11 H/C)
IMPERVIOUS PARKING SURFACE INCLUDING SIDEWALKS: 150,110 SF (29.75%)
TOTAL IMPERVIOUS AREA: 190,970 SF (37.85%)
AREA DISTURBED: 4,036 SF (0.093 AC)

SINCE 1979
STERLING
ENGINEERING, INC.
CIVIL ENGINEERING
ARCHITECTURE
LAND SURVEYING
LAND PLANNING
1020 WILLIAM BLOUNT DRIVE
MARYVILLE, TENNESSEE
37802-8401
P.O. BOX 4878
MARYVILLE, TENNESSEE
37802-4878
PHONE: VOL-984-3905
FAX: VOL-981-2815
www.sterling.us.com

ALCOA, TN

SITE PLAN FOR OUR LADY OF FATIMA CATHOLIC CHURCH

JOSEPH CONSTRUCTION

DATE	BY	REVISIONS

DERICK JONES
REGISTERED ENGINEER
AGRICULTURE
2-22-22
COMMERCE
No. 10643
STATE OF TENNESSEE

SHEET
CP1

DESIGNED:	SDJ
DRAWN:	SDJ
CHECKED:	
DATE:	2/16/22
SCALE:	1" = 20'
DRAWING:	3925G-CP1
PROJECT NO:	SEI#3925G

H:\3925\dwg\3925G-CP1.dwg, 2/22/2022 8:20:06 AM, sdjones, 1:1

DEMOLITION
1. Save all doors, frames, hardware, light fixtures, exit signs, mechanical diffusers and grills, a/v alarm and strobes, fire safety equipment and all other salvageable materials and equipment for possible reuse and relocation. Return all unused salvageable materials and equipment to the Owner unless noted otherwise.
2. Patch as required any damages to existing areas including columns, perimeter areas or existing-to-remain areas due to demolition and installation of work.
3. Contractor shall remove to the source, cap and flush off behind finish surfaces all projecting plumbing, floor electrical/telephone outlets and all other projecting items which are being abandoned. Fire ratings shall be maintained. Walls to be patched at locations of this work to be flush with existing wall.
4. Where full height gypsum board partitions are to be demolished, remove entire stud and all gyp. Bd. to structure above.
5. Contractor shall furnish a system of temporary power and lights throughout the space under construction and demolition as required.
6. Contractor to notify owner of any interruption of utilities to any building tenants.
7. Remove existing floor covering (including VCT, base and wall covering), patch slab and prepare floor as required to receive new finishes.
8. Contractor shall furnish all labor and materials as required to complete demolition and removal of all items indicated on these drawings.
9. Drawings may not represent all existing site conditions. Contractor is responsible for field verification of existing conditions prior to ordering any materials or proceeding with the work. Contractor to notify Architect of any discrepancies and/or questions and obtain required clarification prior to proceeding with work.
10. Contractor shall execute all work within the regulations of the Owner for demolition and removal of debris including overtime work required.
11. Clean all spaces and surfaces thoroughly upon completion of work, including removing dust, debris, oils, stains, fingerprints, and labels on exposed surfaces
12. All substrate surfaces are to be properly prepared to receive finish materials. Subcontractor is not to apply finishes until substrate surface is smooth, dry, and ready to receive materials as specified in manufacturer's instructions for installations or applications.
13. In all areas where demolition (removal of tiles, carpeting, partitions, etc.) causes unevenness in slab, the contractor shall patch to level the slab to receive new finished flooring.
14. Contractor is responsible for visiting site and verifying existing conditions to determine extent of demolition required to build out space per contract documents.

SITE PREPARATION
1. Verify grades of all existing utility lines; verify clearance of work with new grades prior to commencement of work.
2. Remove from site all obstructions interfering with new construction.

EARTHWORK
1. Extent of earthwork is indicated on drawings, and includes preparation of subgrades for building footings, crawl spaces, slabs on grade, walks, pavement, and granular fill for slabs.

TERMITE CONTROL
1. Provide soil treatment for termite control. The materials used to treat the soil shall be Prevai FT, Dragnet FT or Dursban TC, providing a 5-year written warranty.

ASPHALT PAVING, CONCRETE CURBS AND WALKS
1. See site drawings for details and specifications for all paving, curbs and walks.

SITE DRAINAGE SYSTEM
1. See site utility and/or plumbing drawings for storm drainage, or piping manholes, frames, corners, and catch basins.

LAWNS AND GRASSES
1. All soil within the project limits not covered by walks, roads, drives, parking, etc. should be planted to grass so as to provide a full strand of grass, including all maintenance, re-seeding, and additional work as required until such strand or grass is achieved.
2. Provide sod at all areas of lawn having 3:1 or greater slope, all swale drainage areas, or where noted on landscape plan or site plan.

TREES, SHRUBS, AND GROUND COVER
1. Provide trees, shrubs, etc. as noted on landscape plan, as per local zoning ordinance, and as per details.
2. Warranty trees, shrubs and plants for a period of one year from substantial completion.

BRICK AND BLOCK MASONRY
1. Face brick: provide an allowance of $350.00 per thousand bricks (brick only) to meet ASTM C-216, grade SW, color and finish to be selected by Architect. Brick sample must be approved by the Owner or Architect before ordering.
2. Concrete masonry units: Manufacturers standard units with nominal face dimensions of 16" long x 8" (15 5/8" x 7 5/8" actual).
3. Hollow load bearing: ASTM C 90 grade N.
4. Fire rated units shall be as required or noted on the drawings and shall comply with ASTM E 119, NFPA 251, and UL 263.

STRUCTURAL STEEL
1. See structural drawing and specifications for sizes, shapes, and locations.

COLD-FORMED METAL FRAMING
1. See Structural drawings and specifications for sizes and locations.

ROUGH CARPENTRY
1. Rough carpentry includes carpentry work not specified as part of other sections.
2. Lumber- moisture content: 19 percent maximum.
   a. General framing: standard or better grade.
   b. Furring and grounds: Minimum No. 2 common grade, pressure treated.
   c. Structural specifications for studs will rule over these specifications.
3. Exterior grade plywood: where edge or surface is exposed to weather: B-B ext-APA
4. Preservative Treatment:
   a. Items such as wood cants, nailers, curbs, blocking, stripping and other members in connection with roofing.
   b. Wood sleepers, blocking, furring and members in contact with masonry or concrete.

FINISH CARPENTRY
1. All custom woodwork shall comply with the applicable requirements of the AWI quality standards established by the Architectural Woodwork Institute, latest edition.

WATERPROOFING AND VAPOR BARRIER
1. Waterproofing materials
a. Self-adhering membrane waterproofing, .060" minimum thickness, or rubberized asphalt integrally bonded to polyethylene sheeting.
   b. Primers, sealants, mastics, and other materials necessary for a waterproof system shall be provided by the manufacturer.
2. Provide vapor barrier under all building slabs on grade: see drawings for thickness and material.

BATT INSULATION FOR SOUND AND TEMPERATURE
1. See drawings for location, extent, dimensions and related data for sound and temperature batt insulation.

EXTERIOR INSULATION AND FINISH SYSTEMS (E.I.F.S.) CLASS PB
1. Provide labor, materials, equipment, and services necessary to provide exterior insulation and finish system. System shall include integral mildew-resistant chemical.
2. Designation PB for class of exterior insulation and finish systems in this section is based on the classification developed by the Exterior Insulation Manufacturer's Association (EIMA).
3. Flame spread or insulation board and finish coats: 25 or less when tested individually per ASTM E84
4. Prevent the accumulation of water behind the EIF system, either by condensation or leakage through the wall construction.

Samples
Submit samples in form or manufactures standard color charts and small-scale samples indicating available texture choices. Submit sealant manufacturer's standard bead samples of actual products showing full range of colors.

Quality Assurance
Engage an experienced installer who has completed systems similar to this project.

Warranty
1. Provide a seven year standard labor and material warranty.
2. Manufacturers - STO, Dryvit, or W.R. Bonsal.
3. Provide insulation board in thickness and profiles as shown on the Architects drawings.

FLASHING AND SHEET METAL
1. Extent of each type of flashing and sheet metal work is indicated on drawings.
   a. Aluminum: ASTM B 209, alloy 5005, factory finish with Kynar 500 base coating; 0.50" thick. All sheet metal exposed to the exterior to be factory finish.
   b. Extruded Aluminum: Manufacturer's standard extrusions of size and profiles indicated; lengths not to exceed 12'. Provide 20-year warranty. 6063-T52, 0.08" minimum thickness for primary legs of extrusions, finish; super-cote I flouropolymer color, 20-year warranty.
      1) Fascia and wall caps: MW Systems "Snap-Lok" SIF Series I, Hickman "Econosnap II" or approved equal.
   c. Zinc-coated Steel: Commercial quality with 0.20% copper, mill phosphatized where indicated for painting, 0.0359" 20 gauge.
   d. Flexible (Thru-Wall) Flashing- copper/paper flashing: 302. Copper sheet laminated between 2 sheets of bituminous Impregnated Crepe Kraft paper or saturated fabric.

SEALANTS AND CAULKING
A. Provide sealing and caulking of joints as shown on the drawings, including backing fillers where required.
   1. Use caulking compound only on interior joints.
   2. Use sealant compound for all joints exposed to the weather.
   3. Submit manufacturer's material descriptions and instructions for each compound and filler along with standard color chart for approval.

STEEL DOORS AND FRAMES
Provide doors and frames complying with the Steel Door Institute.
1. Fire-rated assemblies
a. Whenever a fire-resistance classification is shown or scheduled for steel doors and frames, provide fire-rated investigated and tested as fire door assembly, complete with type of hardware to be used. Identify each fire door and frame with recognized testing lab labels, indicating fire rating.
   b. Shop applied primer suitable as a base for finished painting.
   c. Fabricate exterior doors and frames from galvanized steel.
   d. Prepare hollow metal units to receive finish hardware in accordance with final finish hardware schedule.
   e. Flush metal doors shall be of seamless construction, with face sheets formed of 1 sheet of steel. Doors shall be 1 3/4" thick unless noted otherwise. Provide counter-sunk flat Phillips head for exposed screws or bolts.
   f. Interior doors- minimum 18 gage faces.
g. Exterior doors- extra heavy duty, minimum 16 gauge faces with insulated core. Fabricated doors from galvanized steel, close top and bottom edges with a minimum 16 gage inverted steel channels.
2. Steel Frames
a. Provide metal frames of the type and styles, indicated on the drawings. Where metal frames are indicated for wood doors, provide frame gauge as specified for steel doors. 16 gauge.
   b. Provide metal frames for doors, transoms, side lights, borrowed lights, and other openings as shown on drawings, conceal all fastenings.
   c. Fabricate frames with mitered and welded corners.
   d. Exterior frames shall be galvanized steel.
   e. Stops to receive 2 silencers on strike jambs of single swing frames and 2 silencers on heads of double doors.
   f. No knock down frames will be accepted unless by prior approval.
   g. All metal doors and frames to be shop primed.

WOOD DOORS
1. Fire rated wood doors
a. Where fire-resistance classifications are scheduled, provide doors which comply with NFPA No. 80 standards for fire doors and windows and which have been tested and rated.
   b. Provide UL label on each door panel.
   c. Submit samples of wood to receive finish showing face and edge treatment.
   d. Warranty for solid core doors shall be in effect for the life of the insulation.
   e. Natural Birch (rotary cut) with factory-applied stain finish TBD, or match existing, unless noted elsewhere.
   f. Premium grade.
   g. Book match veneer across face of door.
   h. Provide exposed edges and other exposed solid wood components of the same species as face veneers.

ALUMINUM ENTRANCES AND STORE FRONTS
1. Provide sizes, shapes and profiles as shown for members of the system.
2. Provide thickness as shown and as necessary to comply with structural loading requirements.
3. Provide anodized aluminum or non-magnetic stainless steel of the type which will not cause electrolytic action or corrosion.
4. Glass and glazing as called for on drawings or glass and glazing specifications.
5. Finish as called for on the drawings installation of store front.
6. Comply with manufacturer's specifications and recommendations.

FINISH HARDWARE
1. See hardware noted on the drawings, if not noted, the following is a list intended to indicate the standard of quality and type of hardware required.
   a. Bolts: (Auto-Flush) Hager, Rockwood
   b. Butts: Hager, Stanley, McKinney
   c. Closers, overhead: Yale, Sargent, LCN
   d. Coordinators: Ives, Rockwood
   e. Lock and latch sets: Yale, Sargent, Schlage
   f. Push, pulls and kick plates: Hager, Rockwood
   g. Stops and bumpers: Hager, (Overhead) ABH, Rockwood
   h. Thresholds: National Guard, Pemko
   i. Weatherstrip: National Guard, Pemko
   j. Exit devices: Von Duprin or Sargent
2. Should the Contractor propose to furnish hardware other than specified, he shall submit for the Architect's approval a list of hardware to be substituted.
3. All locks shall be keyed in groups as directed by the Architect or Owner, and master keyed, provide two keys per lock and six master keys.

GLASS AND GLAZING
1. The required applications of glass and glazing include, but not limited to, the following:
   a. Exterior windows
   b. Exterior entrances
   c. Interior (miscellaneous)
2. Glass
   a. Clear tempered 1/4" thick.
   b. Mirrors: Polished plate glass, No. 1 quality, 1/4" thick.
   c. Insulated glass: 1" thick composed of two 1/4" thick panes with 1/2" air space, interior pane clear, exterior pane shall have a low-emissivity cooling, color selected by Architect. Provide tempered glass in insulated units where indicated on the drawings or where required by code.
   d. Float on plate glass, type 1, 1/4" thickness, clear, tempered where indicated or required.
   e. Fire rated wire glass: 1/4" thick.

Protection
1. Remove and replace glass which is broken, chipped, cracked or damaged in any way during the construction period, including natural causes, accidents and vandalism.

GYPSUM WALLBOARD SYSTEMS
Quality Assurance
1. Where gypsum drywall systems with fire-resistance ratings are indicated, provide materials and installations which are identical with those of applicable assemblies tested per ASTM E 119 by fire testing laboratories acceptable to authorities having jurisdiction.
   a. All materials shall be from a single manufacturer.

Materials
1. Gypsum wallboard: FS-SS-L-30D INT AMD 3 and ASTM C-36-78, tempered, beveled or radial-edge.
   a. Minimum thickness shall be 5/8" unless noted otherwise.
   b. Rated (type X) material, 5/8" minimum thickness required for rated partitions and assemblies.
   c. Water resistant backer board, ASTM C630 with tapered edge, 5/8" thick unless noted otherwise, 5/8" thick for type X, install at wet areas.
2. Sound insulation: As noted on drawings.
3. Gypsum sheathing: 5/8" thick board, ASTM C79; tongue and grooved long edges, moisture resistant gypsum core encased on both sides with water resistant surfaces.
4. Steel studs and runners
   a. Interior partitions- ASTM C646, 1 5/8", 3 5/8", 4" and 6" x 22 gauge, 16 O.C. unless noted otherwise.
   b. Exterior partitions- Size noted on drawings x 18 gauge 16" O.C. unless noted otherwise.
5. 7/8" and 1 1/2" cold rolled channels and 0.0179" minimum thickness, hat shaped.
6. Control joint- USG No. 093.

Installation
1. Install gypsum board in accord with manufacturers printed recommendations.
2. Rated walls shall extend from floor to underside of structure above, all penetrations to be fire caulked with UL rated materials.
3. Place control joints of either aluminum or plastic, control joints shall be at each side of door jambs, and not over 30' O.C.; install double studs at control joints.

ACOUSTICAL TILE CEILINGS
Quality Assurance
1. Acoustical material shall conform with the following minimum requirements: Flame spread ASTM E84-77a, AIMA, Class 1, FS-SS-118a, Class 25 (0-25).
2. Submittals
   a. Sample of each type of tile.
   b. Sample of suspension system.
3. Storage and installation
   a. The building shall be enclosed, the HVAC system operating with proper filters, the proper temperature and humidity conditions stabilized before, during, and after installation.

Suspension system and tile
1. Contractor shall provide samples for each tile and suspension proposed to the Architect for his approval before ordering.

FLOORING AND BASE
1. The Contractor shall submit samples of all floor and base as indicated in the Room Finish Schedule for the Architect's approval prior to ordering.

PAINTING
Summary:
1. Extent of painting work is indicated on drawings and schedules, as here in specified and shall include painting and finishing of interior and exterior exposed items and surfaces throughout project. Work includes field painting of exposed bare and covered piping and duct work, hangers, exposed steel and iron work, and primed metal surfaces of equipment installed under mechanical and electrical work.
2. Prior to beginning work, the Architect or Owner's designated representative will select colors from color chips provided by the painting contractor.

Paint Schedule
1. Provide the following paint systems for the various surfaces and/or areas as indicated:
Symbol indicates the following paint system:
   N-1 3 coats: 1 stain, 1 varnish gloss, 1 varnish stain
   N-2 3 coats: 1 sanding sealer, 1 varnish gloss, 1 varnish stain
   P-3 3 coats: 1 primer sealer, 1 alkyd flat enamel tinted, 1 alkyd flat enamel.
   P-4 3 coats: 1 exterior primer, 2 vinyl acrylic latex flat
   P-5 3 coats: 1 exterior primer, 2 acrylic latex
   P-6 3 coats: 1 exterior primer, 2 exterior gloss paint
   P-7 2 coats: 1 undercoat tinted, 1 semi-gloss enamel
   P-8 3 coats: 1 block filler, 2 latex flat enamel
   P-9 3 coats: 1 primer, 2 acrylic latex flat
   P-10 3 coats: 1 primer, 2 acrylic latex eggshell epoxy
   P-11 3 coats: 1 primer, 2 epoxy semi-gloss
   P-12 3 coats: 1 primer, 2 coats enamel
   P-13 3 coats: 1 latex wall primer, 2 water based

2. The following indicates the paint to be used on the listed surface and/or area:

Surface and/or area on exterior:	Symbol
Metal (omit primer if shop coated)	P-6
Masonry	P-4
Gypsum	P-5

Surface and/or area on interior	Symbol
Metal doors, cabinets (shop primed)	P-7
Wood doors	N-2
Hardwood trim	N-2
Softwood trim	N-1
Painted wood trim and millwork	P-2
Gypsum board walls and ceilings	P-3, P-9, P-10, & P-11
Metal and exposed steel (shop primed)	P-7
Masonry - exposed	P-8
Epoxy for toilet rooms and utility	P-12
Concrete	P-12

FIRE EXTINGUISHER AND FIRE EXTINGUISHER CABINETS
1. Submit manufacturer's technical data for all portable fire extinguishers and recessed fire extinguisher cabinets.
2. Fire extinguishers- multi-purpose dry chemical, 10 lb. capacity, enameled steel container with pressure-indicating gauge, for class A, B, and C fires, at locations shown on drawings.
3. Fire extinguisher cabinet, semi-recessed steel cabinet, with glass in door, size to contain the above noted fire extinguisher at locations shown on drawings.

NOTE: THESE SPECIFICATIONS ARE INTENDED TO PROVIDE GENERAL INFORMATION THAT MAY OR MAY NOT APPLY TO THIS PROJECT, AND SHALL BE SUPERCEDED BY SPECIFIC DETAILS AND NOTES PROVIDED IN THE OTHER CONSTRUCTION DOCUMENTS. IF A CONFLICT SHOULD ARISE, THE GENERAL CONTRACTOR AND/OR HIS SUB-CONTRACTORS SHALL NOTIFY THE ARCHITECT FOR A SPECIFIC INTERPRETATION OF THE CONSTRUCTION DOCUMENTS PRIOR TO PURCHASE OF MATERIALS, OR PERFORMANCE OF WORK.

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MUSIC ROOM ADDITION FOR
OUR LADY OF FATIMA
858 LOUISVILLE RD
ALCOA, TN

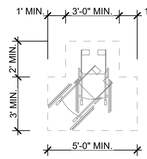
GEORGE A. EWART REGISTERED ARCHITECT ARCHITECTURE NO. 2316 STATE OF TENNESSEE
11 APRIL 2022

ARCHITECTURAL SPECIFICATIONS

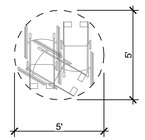
DATE: 11 APRIL 2022
PROJECT NO.: 21074
PROJECT MGR.: G. SLACK

AS

CLEAR FLOOR SPACE NOTES:
1. DOORS SHALL BE PERMITTED TO SWING INTO TURNING SPACES (304.4)
2. ONE FULL UNOBSTRUCTED SIDE OF THE CLEAR FLOOR SPACE MUST ADJOIN AN ACCESSIBLE ROUTE OR ANOTHER CLEAR FLOOR SPACE (305.6)
3. A CLEAR FLOOR SPACE IS REQUIRED AT ANY DEVICE WITH AN OPERABLE PART (309.2)



T-SHAPED SPACE
Ref. 304.3.2



CIRCULAR SPACE
Ref. 304.3.1

TURNING SPACE
Ref. Section 304

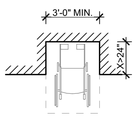


Fig. 305.7.1

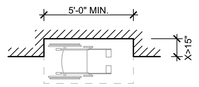
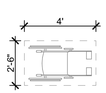
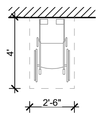


Fig. 305.7.2

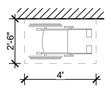
CLEAR FLOOR SPACE IN ALCOVES



CLEAR FLOOR SPACE
Fig. 305.3

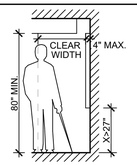


FORWARD APPROACH
Fig. 305.5 (a)

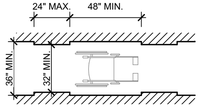


PARALLEL APPROACH
Fig. 305.5 (b)

MINIMUM CLEAR FLOOR SPACE
Ref. Sections 304 & 305



LIMITS OF PROTRUDING OBJECTS
Fig. 307.2



CLEAR WIDTHS
Fig. 403.5.1

NOTES:
1. PROTRUDING OBJECTS SHALL NOT REDUCE THE REQUIRED WIDTH OF AN ACCESSIBLE ROUTE (307.5)
2. PROTRUDING OBJECTS ON A CIRCULATION PATH SHALL COMPLY WITH SECTION 307 (204.1)
3. THE SLOPE OF A WALKING SURFACE ALONG AN ACCESSIBLE ROUTE SHALL NOT BE STEEPER THAN 1:20 AND CROSS SLOPES SHALL NOT EXCEED 1:48 (402)

PROTRUDING OBJECTS & ACCESSIBLE ROUTE
Ref. Sections 307 & 402

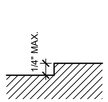


Fig. 303.2

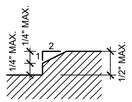


Fig. 303.3

CHANGES IN LEVEL

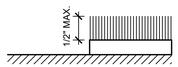
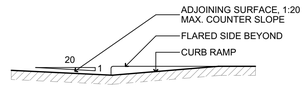


Fig. 302.2

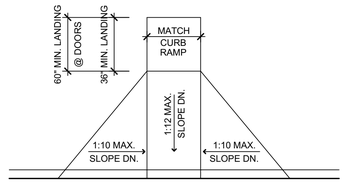
CARPET PILE THICKNESS

NOTE:
CHANGES IN LEVEL GREATER THAN 1/2" SHALL BE RAMPED, AND SHALL COMPLY WITH SECTIONS 405 OR 406 (303.4)

FLOOR SPACES
Ref. Sections 302 & 303



COUNTER SLOPE OF SURFACES ADJACENT TO CURB RAMPS
Fig. 406.2



PLAN
Ref. Figures 406.3 & 406.4

CURB RAMPS
Ref. Section 406

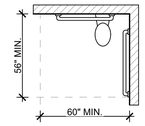
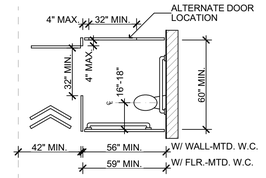
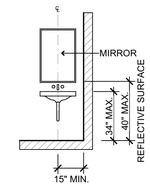


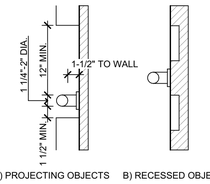
Fig. 604.3.1
CLEARANCE AT WATER CLOSETS



WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT
Ref. Section 604

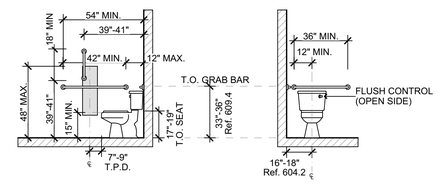


LAVATORY
Ref. Sections 603.3 & 606

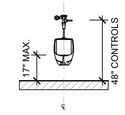


A) PROJECTING OBJECTS B) RECESSED OBJECTS

SPACING OF GRAB BARS
Fig. 609



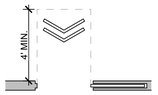
TOILET



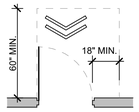
URINAL
Ref. Section 605

TOILET ROOM NOTES:
1. A TURNING SPACE PER SECTION 304 IS REQUIRED WITHIN A TOILET ROOM (603.2.1)
2. ONLY THE FOLLOWING OBJECTS ARE PERMITTED TO OVERLAP THE REQUIRED CLEARANCE: GRAB BARS, DISPENSERS, SANITARY NAPKIN DISPOSAL UNIT, COAT HOOKS, AND SHELVES (604.3.2)
3. FLUSH CONTROLS SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET (604.6)
4. URINALS SHALL HAVE A CLEAR FLOOR SPACE COMPLYING WITH 305 POSITIONED FOR FORWARD APPROACH AND CENTERED ON UNIT (605.3)
5. LAVATORIES SHALL HAVE A CLEAR FLOOR SPACE COMPLYING WITH 305 POSITIONED FOR FORWARD APPROACH AND CENTERED ON UNIT (606.2)
6. KNEE & TOE CLEARANCE COMPLYING WITH 306 SHALL BE PROVIDED (602.2)
7. EXPOSED WATER SUPPLY AND DRAIN PIPES SHALL BE INSULATED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES (606.5)
8. INSTALL GRAB BAR TO WITHSTAND NOT LESS THAN A 250 POUND FORCE APPLIED AT ANY POINT ON THE BAR (609.8)
9. URINALS SHALL BE 13-1/2" DEEP MINIMUM MEASURED FROM THE OUTER FACE OF THE URINAL RIM TO THE BACK OF THE FIXTURE. (605.2)

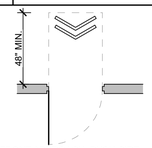
TOILET ROOM CLEARANCES & MOUNTING HEIGHTS
Ref. Chapter 6



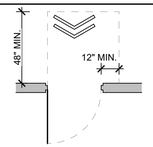
FRONT APPROACH



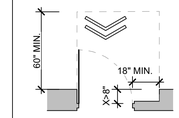
FRONT APPROACH, PULL SIDE



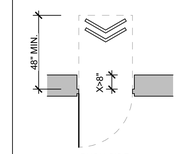
FRONT APPROACH, PUSH SIDE



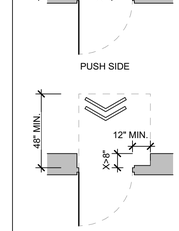
FRONT APPROACH, PUSH SIDE; DOOR W/ BOTH CLOSER & LATCH



PULL SIDE

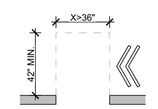


PUSH SIDE

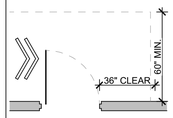


PUSH SIDE; DOOR W/ BOTH CLOSER & LATCH

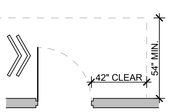
RECESSED DOORS & GATES
Fig. 404.2.3



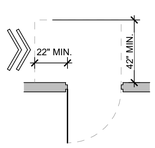
SIDE APPROACH



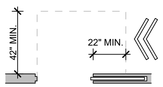
HINGE APPROACH, PULL SIDE



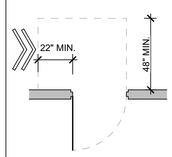
HINGE APPROACH, PULL SIDE



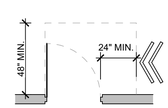
HINGE APPROACH, PUSH SIDE



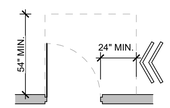
POCKET OR HINGE APPROACH



HINGE APPROACH, PUSH SIDE; DOOR W/ BOTH CLOSER & LATCH

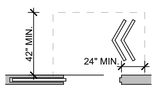


LATCH APPROACH, PULL SIDE



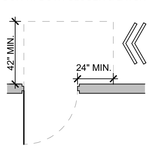
LATCH APPROACH, PULL SIDE; DOOR W/ CLOSER

MANUAL SWINGING DOORS & GATES
Fig. 404.2.4.1

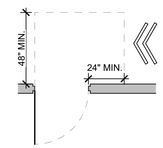


STOP OR LATCH APPROACH

DOORWAYS W/O DOORS, SLIDING DOORS, GATES, & FOLDING DOORS
Fig. 404.2.4.2



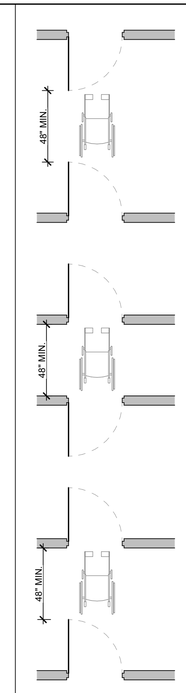
LATCH APPROACH, PUSH SIDE



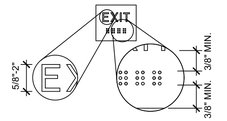
LATCH APPROACH, PUSH SIDE; DOOR W/ CLOSER

MANEUVERING CLEARANCE NOTES:
1. DOORS, DOORWAYS, & GATES PROVIDING USER PASSAGE SHALL COMPLY (206.5)
2. ADJUST DOOR CLOSERS SO THAT THE DOOR TAKES AT LEAST 5 SECONDS TO MOVE FROM 90 DEGREE OPEN POSITION TO 12 DEGREES FROM LATCH (404.2.8)
3. FIRE DOORS SHALL HAVE MINIMUM OPENING FORCE ALLOWABLE BY THE BUILDING AND FIRE CODES. OTHER INTERIOR DOORS, 5 POUNDS MAXIMUM (404.2.9)
4. MANEUVERING CLEARANCES ARE REQUIRED AT AUTOMATIC DOORS UNLESS DOOR OPERATION HAS STANDBY POWER (404.3.2)

MANEUVERING CLEARANCES
Ref. Section 404.2

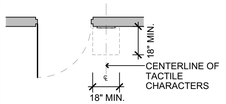


DOORS & GATES IN SERIES
Fig. 404.2.6



HEIGHT OF RAISED CHARACTERS
Fig. 703.2.5

POSITION OF BRAILLE
Fig. 703.3.2



LOCATION OF TACTILE SIGNS AT DOORS
Fig. 703.4.2

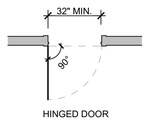
TACTILE CHARACTER HEIGHT ABOVE FLOOR
Fig. 703.4.1

TACTILE SIGN NOTES:
1. RAISED CHARACTERS SHALL COMPLY WITH 703.2 AND SHALL BE DUPLICATED IN BRAILLE COMPLYING WITH 703.3. RAISED CHARACTERS SHALL BE INSTALLED IN ACCORDANCE WITH 703.4 (703.2).
2. BRAILLE SHALL BE CONTRACTED (GRADE 2) AND SHALL COMPLY WITH 703.3 AND 703.4 (703.3).
3. BRAILLE SHALL BE POSITIONED BELOW THE CORRESPONDING TEXT. IF TEXT IS MULTI-LINED, BRAILLE SHALL BE PLACED BELOW THE ENTIRE TEXT (703.3.2).
4. PICTOGRAMS SHALL HAVE A FIELD HEIGHT OF 6 INCHES (150 MM) MINIMUM. CHARACTERS AND BRAILLE SHALL NOT BE LOCATED IN THE PICTOGRAM FIELD (703.6.1).
5. PICTOGRAMS AND THEIR FIELD SHALL HAVE A NON-GLARE FINISH. PICTOGRAMS SHALL CONTRAST WITH THEIR FIELD WITH EITHER A LIGHT PICTOGRAM ON A DARK FIELD OR A DARK PICTOGRAM ON A LIGHT FIELD (703.6.2).

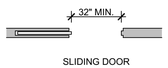
TACTILE SIGNS
Ref. Section 703

THIS DRAWING IS A REPRESENTATIVE SUMMARY OF THE REQUIREMENTS OF THE 2010 ADA STANDARDS THAT MAY BE APPLICABLE TO THE PROJECT. WHERE SPECIFIC DIMENSIONAL INFORMATION AND CLEARANCES ARE NOT NOTED ON THE DRAWINGS, CONSTRUCT TO THE CLEARANCES AND TOLERANCES SHOWN ON THIS SHEET. WHERE DRAWINGS SPECIFICALLY INDICATE DIFFERENT OR CONFLICTING INFORMATION TO THE STANDARDS DEPICTED ON THIS SHEET, CONSTRUCT USING THE MORE STRINGENT REQUIREMENT OR CONTACT THE ARCHITECT FOR RESOLUTION.

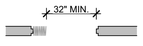
ACCESSIBLE GUIDELINES



HINGED DOOR



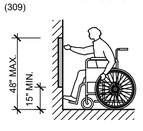
SLIDING DOOR



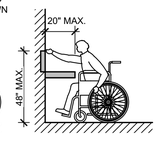
FOLDING DOOR

CLEAR WIDTH OF DOORWAYS
Fig. 404.4.3

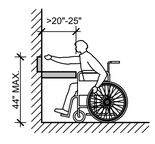
NOTE:
ANY OPERABLE PART OF ANY DEVICE SHALL BE INSTALLED WITHIN THE REACHES SHOWN (309)



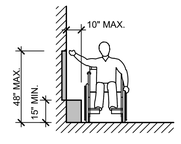
UNOBSTRUCTED FORWARD REACH
Fig. 308.2.1



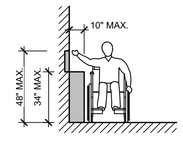
OBSTRUCTED HIGH FORWARD REACH
Fig. 308.2.2



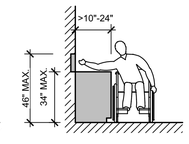
OBSTRUCTED HIGH FORWARD REACH
Fig. 308.2.2



UNOBSTRUCTED SIDE REACH
Fig. 308.3.1

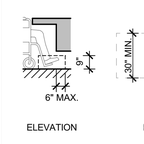


OBSTRUCTED HIGH SIDE REACH
Fig. 308.3.2

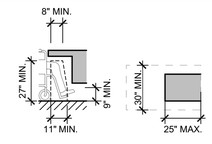


OBSTRUCTED HIGH SIDE REACH
Fig. 308.3.2

REACH RANGES
Ref. Section 308



ELEVATION PLAN
TOE CLEARANCES
Fig. 306.2



ELEVATION PLAN
KNEE CLEARANCES
Fig. 306.3

KNEE & TOE CLEARANCES
Ref. Section 306

GEORGE ARMOUR EWART ARCHITECT
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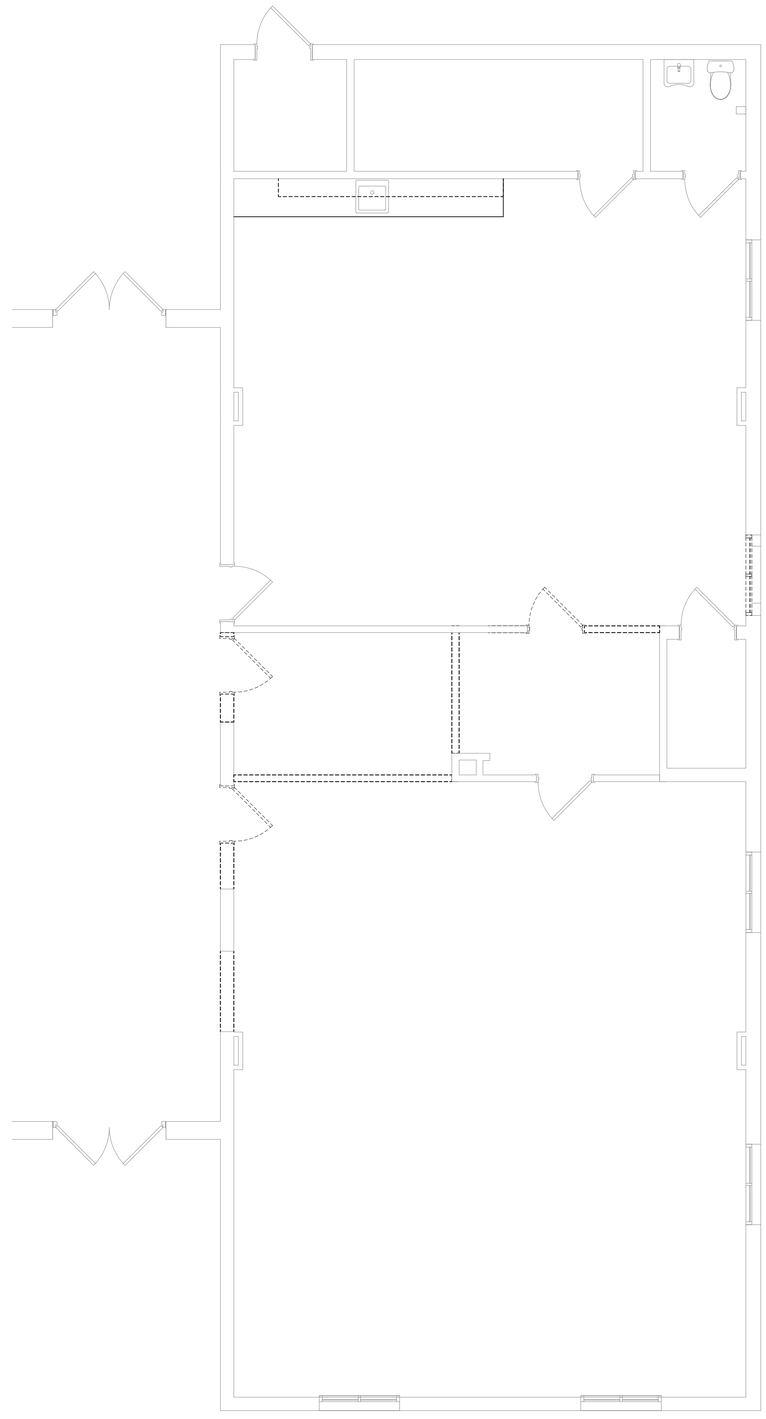
MUSIC ROOM ADDITION FOR
OUR LADY OF FATIMA
858 LOUISVILLE RD
ALCOA, TN

GEORGE A. EWART REGISTERED ARCHITECT ARCHITECTURE No. 231 STATE OF TENNESSEE
11 APRIL 2022

ACCESSIBLE DESIGN

DATE: 11 APRIL 2022
PROJECT NO.: 21074
PROJECT MGR.: G. SLACK

AD



DEMOLITION LEGEND

- EXISTING TO REMAIN
- EXISTING TO BE REMOVED
- EX. DOOR TO REMAIN
- EX. DOOR TO BE REMOVED

1 / A0.1 DEMOLITION PLAN

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

PLAN NORTH

GEORGE ARMOUR EWART ARCHITECT

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MUSIC ROOM ADDITION FOR
OUR LADY OF FATIMA
858 LOUISVILLE RD
ALCOA, TN

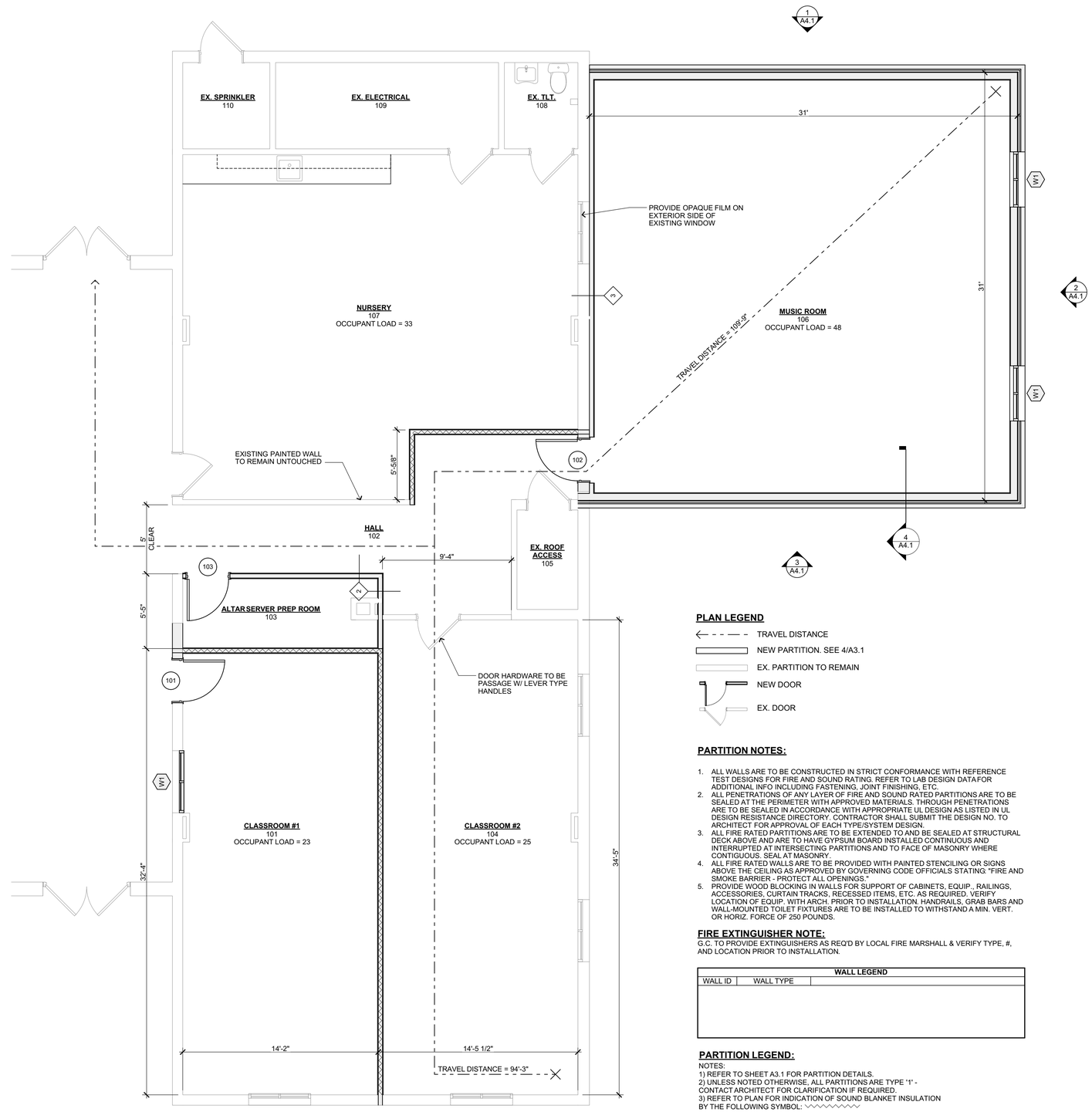
GEORGE A. EWART
REGISTERED ARCHITECT
NO. 23161
STATE OF TENNESSEE

11 APRIL 2022

DEMOLITION PLAN

DATE: 11 APRIL 2022
PROJECT NO.: 21074
PROJECT MGR.: G. SLACK

A0.1



PLAN LEGEND

- TRAVEL DISTANCE
- NEW PARTITION. SEE 4/A3.1
- EX. PARTITION TO REMAIN
- NEW DOOR
- EX. DOOR

PARTITION NOTES:

1. ALL WALLS ARE TO BE CONSTRUCTED IN STRICT CONFORMANCE WITH REFERENCE TEST DESIGNS FOR FIRE AND SOUND RATING. REFER TO LAB DESIGN DATA FOR ADDITIONAL INFO INCLUDING FASTENING, JOINT FINISHING, ETC.
2. ALL PENETRATIONS OF ANY LAYER OF FIRE AND SOUND RATED PARTITIONS ARE TO BE SEALED AT THE PERIMETER WITH APPROVED MATERIALS. THROUGH PENETRATIONS ARE TO BE SEALED IN ACCORDANCE WITH APPROPRIATE UL DESIGN AS LISTED IN UL DESIGN RESISTANCE DIRECTORY. CONTRACTOR SHALL SUBMIT THE DESIGN NO. TO ARCHITECT FOR APPROVAL OF EACH TYPE/SYSTEM DESIGN.
3. ALL FIRE RATED PARTITIONS ARE TO BE EXTENDED TO AND BE SEALED AT STRUCTURAL DECK ABOVE AND ARE TO HAVE GYPSUM BOARD INSTALLED CONTINUOUS AND INTERRUPTED AT INTERSECTING PARTITIONS AND TO FACE OF MASONRY WHERE CONTIGUOUS. SEAL AT MASONRY.
4. ALL FIRE RATED WALLS ARE TO BE PROVIDED WITH PAINTED STENCILING OR SIGNS ABOVE THE CEILING AS APPROVED BY GOVERNING CODE OFFICIALS STATING: "FIRE AND SMOKE BARRIER - PROTECT ALL OPENINGS."
5. PROVIDE WOOD BLOCKING IN WALLS FOR SUPPORT OF CABINETS, EQUIP., RAILINGS, ACCESSORIES, CURTAIN TRACKS, RECESSED ITEMS, ETC. AS REQUIRED. VERIFY LOCATION OF EQUIP. WITH ARCH. PRIOR TO INSTALLATION. HANDRAILS, GRAB BARS AND WALL-MOUNTED TOILET FIXTURES ARE TO BE INSTALLED TO WITHSTAND A MIN. VERT. OR HORIZ. FORCE OF 250 POUNDS.

FIRE EXTINGUISHER NOTE:

G.C. TO PROVIDE EXTINGUISHERS AS REQ'D BY LOCAL FIRE MARSHALL & VERIFY TYPE, #, AND LOCATION PRIOR TO INSTALLATION.

WALL LEGEND		
WALL ID	WALL TYPE	

PARTITION LEGEND:

NOTES:
1) REFER TO SHEET A3.1 FOR PARTITION DETAILS.
2) UNLESS NOTED OTHERWISE, ALL PARTITIONS ARE TYPE '1' - CONTACT ARCHITECT FOR CLARIFICATION IF REQUIRED.
3) REFER TO PLAN FOR INDICATION OF SOUND BLANKET INSULATION BY THE FOLLOWING SYMBOL:

1 / A1.1 FLOOR PLAN

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

PLAN NORTH

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MUSIC ROOM ADDITION FOR
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ALCOA, TN

GEORGE A. EWART REGISTERED ARCHITECT NO. 23161 STATE OF TENNESSEE

11 APRIL 2022

FLOOR PLAN

DATE: 11 APRIL 2022
PROJECT NO.: 21074
PROJECT MGR.: G. SLACK

A1.1

FINISH SCHEDULE

NO.	ROOM NAME	FLOOR	BASE	WALLS	CEILING	REMARKS
101	CLASSROOM #1	VCT	VINYL	PAINT	ACT	-
102	HALL	VCT	VINYL	PAINT	ACT	-
103	ALTAR SERVER PREP ROOM	VCT	VINYL	PAINT	ACT	-
104	CLASSROOM #2	VCT	VINYL	PAINT	ACT	-
105	EX. ROOF ACCESS	VCT	VINYL	PAINT	ACT	-
106	MUSIC ROOM	VCT	VINYL	PAINT	ACT	-
107	NURSERY	VCT	VINYL	PAINT	ACT	-
108	EX. TLT.	VCT	VINYL	PAINT	ACT	-
109	EX. ELECTRICAL	VCT	VINYL	PAINT	ACT	-
110	EX. SPRINKLER	VCT	VINYL	PAINT	ACT	-

FINISH NOTES:

1. ALL INTERIOR FINISHES SHALL COMPLY WITH CHAPTER 8 OF THE INTERNATIONAL BLDG. CODE, 2018 EDITION.
2. ALL FINISHES TO BE VERIFIED WITH OWNER PRIOR TO INSTALLATION.
3. SEE REFLECTED CEILING PLAN, SHEET A9.1 FOR GYP. BD. SOFFIT AREAS AND HEADERS, AND ALL CEILING HEIGHTS.
4. PREPARE ALL FLOOR SURFACES AS REQ'D TO RECEIVE FLOORING MATERIAL - PATCH AND LEVEL ALL OPENINGS, DEPRESSIONS, ROUGHNESS, ETC.
5. PROVIDE NECESSARY TRANSITIONS FOR ALL FLOORING CHANGES. VERIFY COLOR & SELECTION WITH ARCHITECT.
6. USE MANUFACTURER ADHESIVE TO MAINTAIN MANUFACTURER WARRANTY.
7. PATCH ALL FINISHES WHERE DISTURBED BY THE WORK OF ANY SUB CONTRACTOR.
8. INTERIOR WALL FINISH, CEILING FINISHES SHALL BE CLASS 'A', FLOORING SHALL BE CLASS 1.
9. REFER TO ARCH. SPECIFICATIONS SHEET AS FOR ALL OTHER INFORMATION.
10. PAINT FINISH FOR WALLS TO BE EGGSHELL. RESTROOMS, HOOD & ANTE ROOM TO BE EPOXY FINISH.
11. TRIM PAINT TO BE SEMI-GLOSS FINISH AND MATCH COLOR TO WALL BASE. VERIFY WITH ARCHITECT.
12. DOOR STAIN TO BE VERIFIED WITH ARCHITECT.
13. PROVIDE SUBMITTALS FOR REVIEW FOR FLOORING, BASE AND WALL FINISHES, CAPS & TRIMS.
14. PROVIDE PAINT SAMPLES IN FIELD. VERIFY FINAL COLORS PRIOR W/ DESIGNER.
15. VERIFY ALL DIMENSIONS IN FIELD.
16. VCT FLOORING TO MATCH EXISTING.

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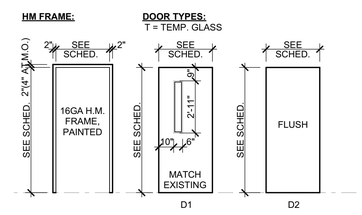
DOOR SCHEDULE

MARK	SIZE			FIRE	TYPE	MAT'L	FRAME			HDWR SET	REMARKS
	W	H	T				MAT'L	HEAD	JAMB		
101	3'	7'	1 3/4"	Unrated	D1	SC WOOD	HM	-	-	PASS.	REUSE EXISTING DOOR
102	3'	7'	1 3/4"	Unrated	D1	SC WOOD	HM	-	-	PASS.	MATCH EXISTING DOORS
103	3'	7'	1 3/4"	Unrated	D2	SC WOOD	HM	H1	J1	STORAGE	MATCH EXISTING DOORS

DOOR NOTES:

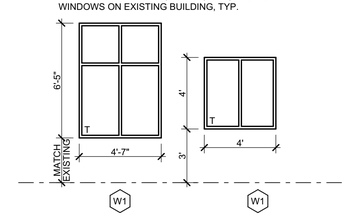
1. CAULK BOTH SIDES OF ALL DOOR FRAMES.
2. PROVIDE DBL. STUDS AND BASE ANCHORS AT ALL JAMBS, TYP.
3. HARDWARE ON DOORS SHALL BE LEVER TYPE FOR HANDICAP ACCESSIBILITY
4. CONTRACTOR SHALL VERIFY ALL HARDWARE SETS W/ OWNER PRIOR TO INSTALLATION.
5. THRESHOLDS AT ALL EXT. DOORS SHALL BE MAX. 1/2" HIGH.
6. REFER TO SHEET AS FOR OTHER REQUIREMENTS AND SPECIFICATIONS.
7. PROVIDE COAT HANGERS ON DOORS IN TOILETS.



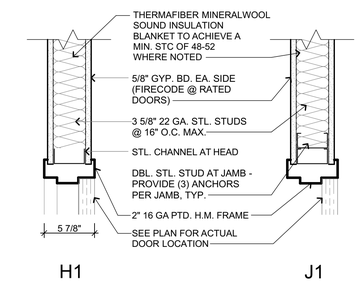
1 A3.1 DOOR AND FRAME TYPES
SCALE: 1/4" = 1'-0"

WINDOW TYPES:
T=TEMP. GLASS

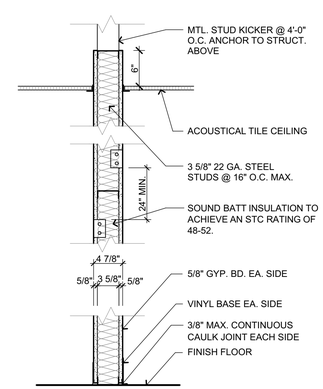
MATCH WINDOW STYLE, COLOR, SIZE, ETC. TO WINDOWS ON EXISTING BUILDING, TYP.



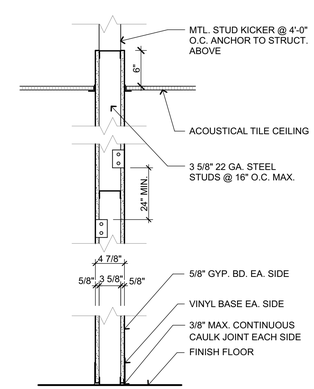
2 A3.1 WINDOW TYPES
SCALE: 1/4" = 1'-0"



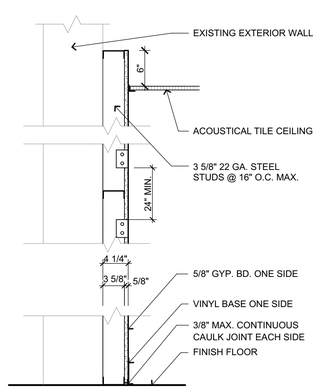
3 A3.1 HEAD AND JAMB DETAILS
SCALE: 1 1/2"= 1'-0"



1 3 5/8" STL STUD PART. W/ SOUND BATT THRU ACT
1":1'-0"



2 3 5/8" STL STUD PART. THRU ACT
1":1'-0"



2 3 5/8" STL STUD FURRING AT EX. WALL
1":1'-0"

4 A3.1 PARTITION TYPES
SCALE: 1" = 1'-0"

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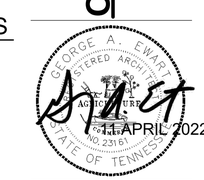
ALCOA, TN

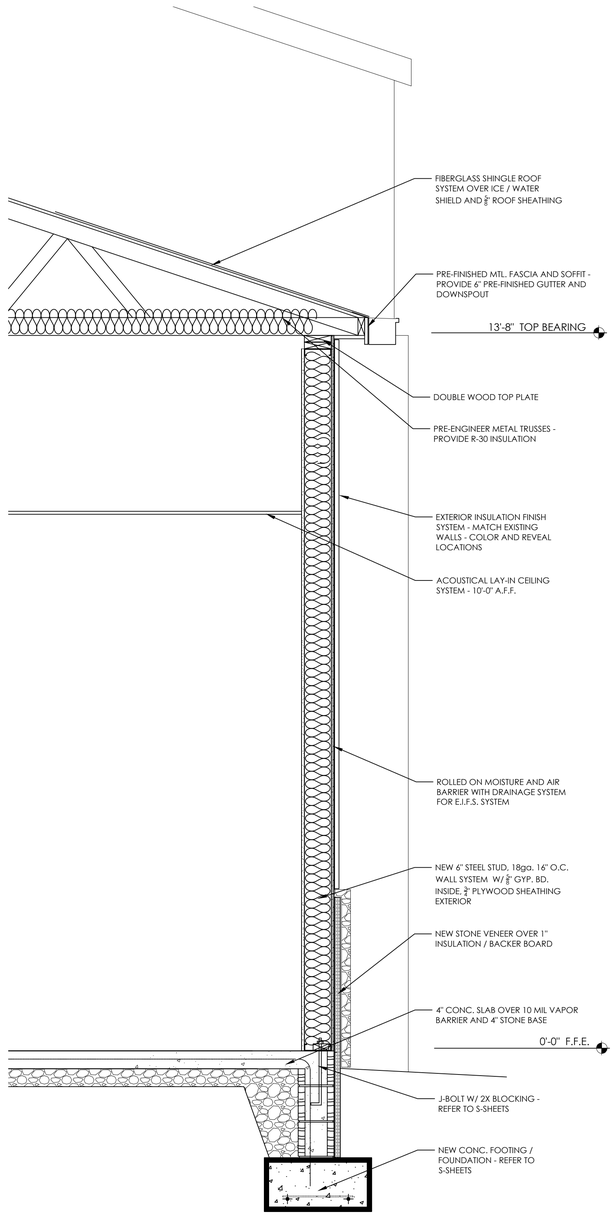


11 APRIL 2022

SCHEDULES & DETAILS

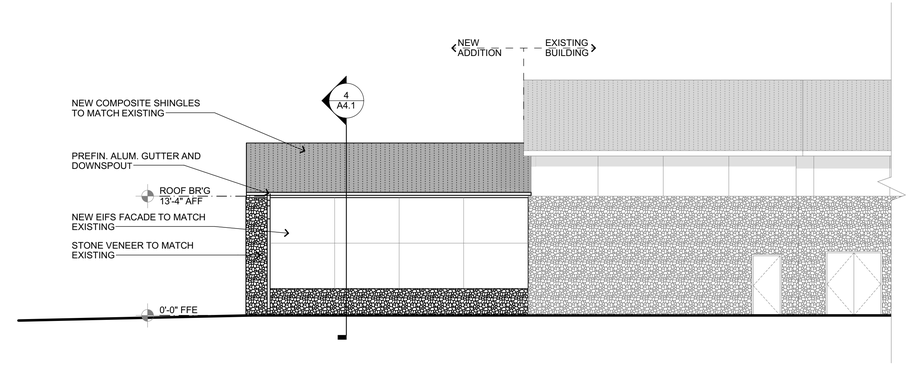
DATE: 11 APRIL 2022
PROJECT NO.: 21074
PROJECT MGR.: G. SLACK

A3.1



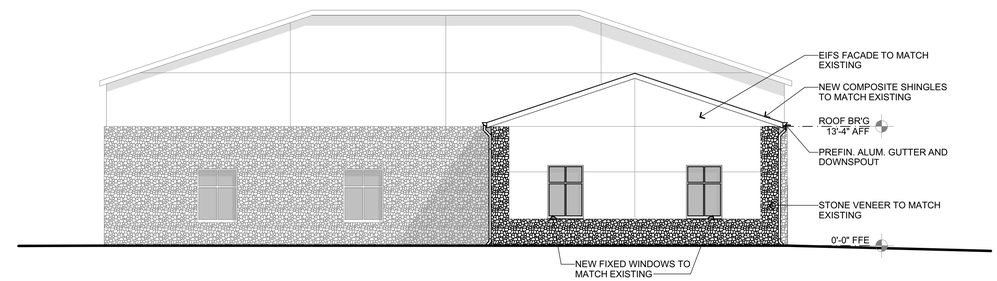
4 A4.1 WALL SECTION

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



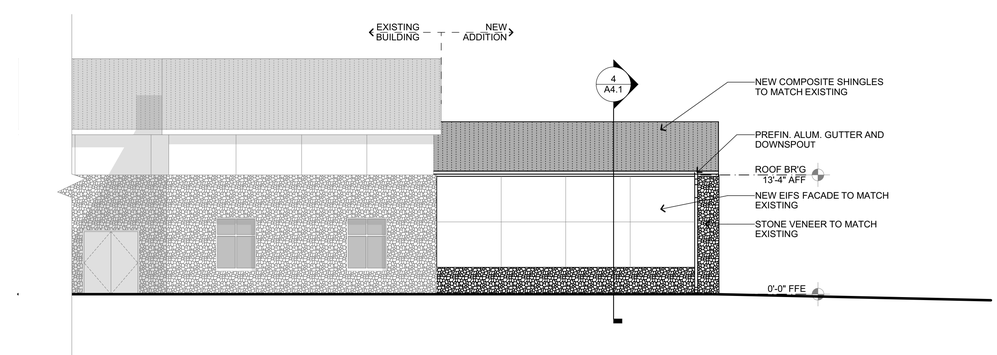
1 A4.1 NORTH ELEVATION

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



2 A4.1 EAST ELEVATION

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



3 A4.1 SOUTH ELEVATION

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

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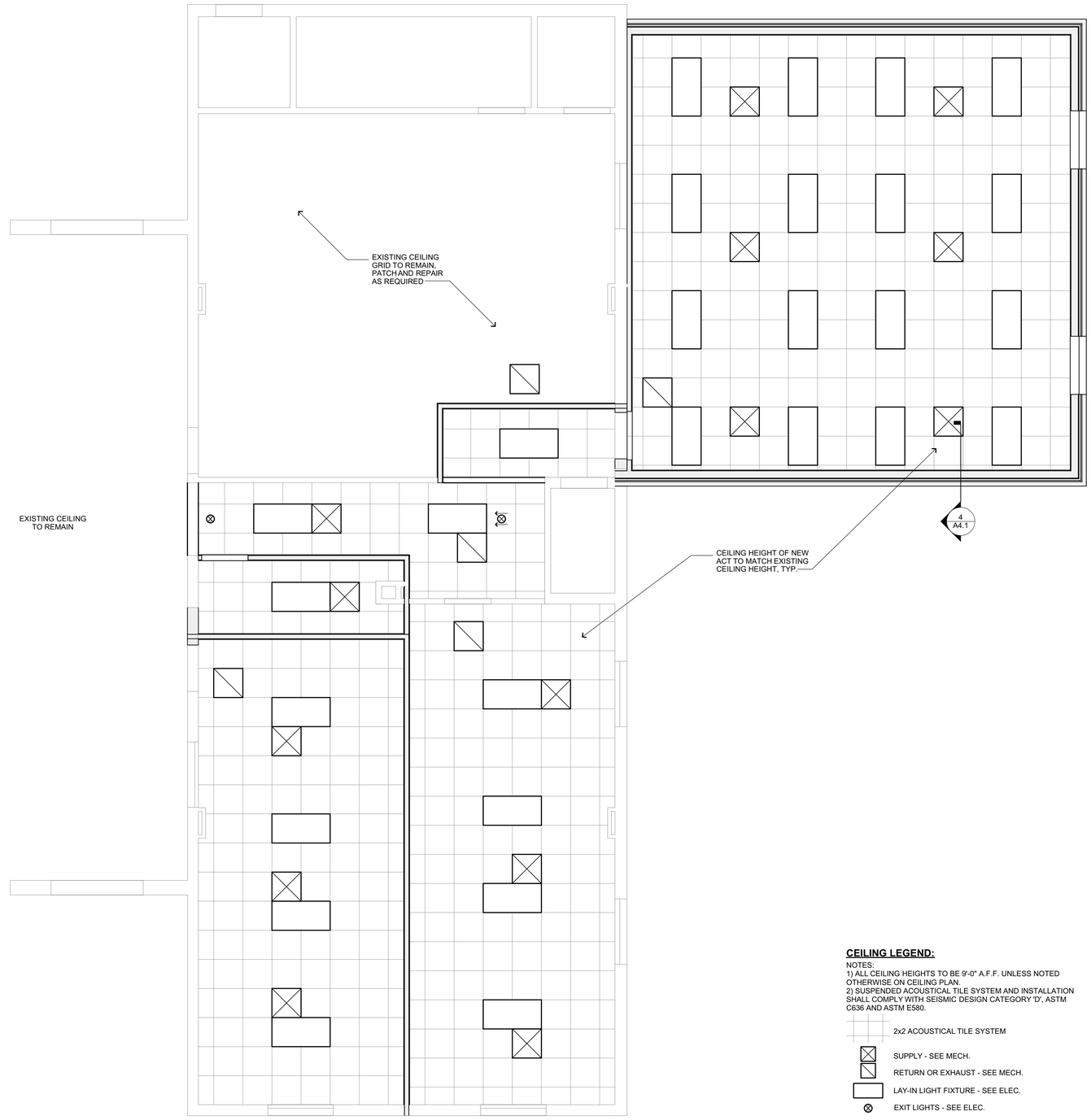
MUSIC ROOM ADDITION FOR
OUR LADY OF FATIMA
858 LOUISVILLE RD
ALCOA, TN

EXTERIOR ELEVATIONS & WALL SECTION

DATE: 11 APRIL 2022
PROJECT NO.: 21074
PROJECT MGR.: G. SLACK

A4.1



CEILING LEGEND:

NOTES:
1) ALL CEILING HEIGHTS TO BE 9'-0" A.F.F. UNLESS NOTED OTHERWISE ON CEILING PLAN.
2) SUSPENDED ACOUSTICAL TILE SYSTEM AND INSTALLATION SHALL COMPLY WITH SEISMIC DESIGN CATEGORY 'D', ASTM C636 AND ASTM E580.

- 2x2 ACOUSTICAL TILE SYSTEM
- SUPPLY - SEE MECH.
- RETURN OR EXHAUST - SEE MECH.
- LAY-IN LIGHT FIXTURE - SEE ELEC.
- EXIT LIGHTS - SEE ELEC.

1 / A9.1 CEILING PLAN

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

PLAN NORTH

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MUSIC ROOM ADDITION FOR
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858 LOUISVILLE RD
ALCOA, TN

GEORGE A. EWART
REGISTERED ARCHITECT
ARCHITECTURE
NO. 23161
STATE OF TENNESSEE

11 APRIL 2022

CEILING PLAN

DATE: 11 APRIL 2022
PROJECT NO.: 21074
PROJECT MGR.: G. SLACK

A9.1

STEEL STUD WALL NOTES

1. All steel stud sizes and designations indicated on drawings are based on information from Steel Stud Manufacturer's Association product technical information. All material to meet or exceed properties as noted in technical catalog. Submit shop drawings including all sizes to be used,details, connections, stiffeners, parapet designs, etc. Shop drawings to be stamped by Tennessee registered engineer. Provide stamped calculations for lintels, wind resistance connections, cantilevered parapets and all necessary items required for steel stud portion of project. All indicated sizes and guages are minimums. Substitutions will be considered only with proper engineering documentation.
2. Contractor to furnish all studs, runner tracks, lintels, clips, deflection track, bridging, and other accessories required to complete the steel stud wall portion of the project.
3. All lintels in walls to bear on a minimum of (1) jack stud at each end and (2) at interior bearing points. Where lintel is continuous over two or more spans, provide web stiffeners over interior bearing points.
4. Provide double jamb studs on each side of openings with additional lateral bracing as required for lateral support of all walls.
5. Studs are to be engineered such that lateral deflection is less than L/600 when backing masonry, L/360 with all other finishes, unless noted otherwise.
6. Provide necessary bracing and anchorage into foundations to resist wind and seismic loads. Connection of runner track to foundation / floor system to be made with "Hilti" DX fastener type "W10-30-27 P10" at each stud (16" o.c. maximum).
7. All lintels, beams, and headers to be constructed of "unpunched" sections.
8. See steel stud wall framing elevations for typical suggested framing details. Steel stud supplier's engineer to furnish detailing for review on shop drawings.
9. Where non load-bearing curtain walls terminate at the bottom flange of a steel beam, provide connection at top of stud wall to allow for deflection of beam such as "deep leg slip track" or "verticlip" connection. Total design deflection of beam to be based on "beam span"/300.
10. Where nailers are required at top of bearing walls, connect nailer to top runner track with "Hilti" Kwik-Pro self-drilling screws 10-16 x 3-15/16" FWH #4 wings Kwik-Cote at 16" o.c. Provide 16 gauge steel strap over nailer (lap 12" to sides of studs) at 48" o.c. Attach strap to stud with (2) #10 screws each side. See section .
11. Unless noted otherwise, provide a bearing stud directly under each truss bearing locations. Provide triple stud under all "girder truss" bearing locations.
12. All runner track to be same depth and gauge as bearing wall studs.
13. All bearing studs to be cut square and bear tightly to top and bottom runner track. No gaps between bearing studs and runner tracks are to be allowed.
14. Minimum stud sizes are to be as follows:

    Bearing Walls

Max. Wall Height	Stud Size and Spacing
12'-0"	600S162-43 at 16" o.c.

Max. Wall Height (Exterior)	Stud Size and Spacing
12'-0"	600S162-43 at 16" o.c.

15. Where parapet walls extend from top of a steel beam, provide diagonal bracing to roof system or struts per steel notes.

CONCRETE, MASONRY, & RELATED NOTES

1. Concrete strength to be as follows:
   a. Concrete walls, beam and structural slabs-f'c=4,000 psi @ 28 days
   b. Footings----------f'c=4,000 psi @ 28 days
   c. Slabs on grade & concrete toppings----f'c=4,000 psi @ 28 days
   d. Masonry block core fill (size of aggregate to be pea gravel)
   ------f'c=3,000 psi @ 28 days
   Refer to note #3 for testing of concrete and specifications for submittal of mix design.
2. Concrete exposed to weather to be air-entrained (6% max.- 4.5% min.).
3. Concrete and reinforcing steel to be as per ACI 318 and ACI 301. (Contractor to have copies of these documents at job site during construction.) Sampling and testing of concrete to be in accordance with ACI 301 by independent testing agency at contractor's expense. Contractor to take special precautions for hot and cold weather concreting as indicated in ACI 301.
4. Reinforcing steel to be A 615-60.
5. Provide shop drawings of reinforcing steel prior to fabrication of same. Refer to specifications for submittal process. Submittal to include elevations of all reinforced walls. Drawings to be original documents, not a reproduction of contract drawings. Reinforcing steel shop drawings will be reviewed for general conformance to the contract documents. Contractor is to verify quantities and dimensions of all materials ordered from suppliers. Any overage or shortage of material is the responsibility of the contractor. Shop drawings are intended to be used as a supplement to and in conjunction with the contract/design drawings. Review of shop drawings does not relieve the contractor of responsibility for correctness of details and quantities and dimensions.
6. Footings are designed for a maximum soil bearing capacity of 2000 psf. Architect to be contacted if poor soil conditions are encountered. See "Soils Note"
7. The following concrete cover shall be provided for reinforcement:
   a. Concrete members cast against and permanently exposed to earth.....3"
   b. Concrete members exposed to earth or weather:
      #6 through #18 bars.....2"
      #5 bar and smaller.....1-1/2"
   c. Concrete members not exposed to weather or in contact with ground:
      Slabs, walls, joists:
      #11 bars and smaller.....3/4"
      Primary reinforcement, ties, stirrups, spirals...1 1/2"
8. The following reinforcement to be provided unless noted or detailed otherwise:
   a. Provide 2'-8" x 2'-8" corner bars in corners of all footings, reinforced walls, bond beams, etc. Provide same bar size and number or spacing as continuous horizontal reinforcement.
   b. Provide "Z" bars in all footing steps. Refer to section 1/S1.1 and concrete note #3.
   c. Unless detailed otherwise, all concrete walls to be reinforced with #5 at 8" o.c. each way, each face. If not indicated, walls to be 12" thick.
   d. All reinforced masonry walls which retain fill to be 12" retaining wall block reinforced with #5 bar each cell (vert.) unless noted otherwise.
   e. Provide clean out openings at base of all vertically reinforced cells.
   f. Provide rebar positioners at 1/3 points of wall height for placement as indicated in details. Tie all vertical reinforcement to dowels out of footing prior to placing concrete.
9. Step footings as required by soft soil, plumbing, finished grades, pits, exterior to interior footing intersections, etc. Contractor to field coordinate. Refer to section 1/S1.1.
10. All footings at areas to receive plumbing to be a minimum of 16" below finished floor. Coordinate with plumbing drawings.
11. Unless noted otherwise on plans, provide a 2'-0" x 12" continuous concrete footing under all walls which extend to grade. Provide a type 'A' footing under all columns which extend to grade.
12. All concrete slabs on grade to be 4" thick with 6 x 6 W1.4 - W1.4 w.w.f. on 4" crushed stone base, unless noted otherwise. See architectural drawings for any depressed areas, vapor barrier, sloped areas, etc.
13. Unless noted or detailed otherwise, all reinforcing steel to be lapped a minimum of a class B tension splice.

NOTES ON REINFORCED MASONRY

A.) MATERIALS

1. All reinforced masonry shall conform to provisions of TMS 402/602, "Building Code Requirements and Specification for Masonry Structures."
2. Grout shall be pea gravel concrete with a slump of 9 to 11 inches and f'c-3,000 PSI at 28 days.
3. Mortar shall be type 'M' below grade and type 'M' or type 'S' above grade as per ASTM, C270.
4. Provide vertical control joints in block/brick at 20'-0" o.c. (max.) as per "ACI". Coordinate locations with architectural drawings.

B.) CONSTRUCTION

Requirements for construction shall be as follows:

1. All reinforced hollow unit masonry shall be built to preserve the unobstructed vertical continuity of the cells to be filled. Walls and cross webs forming such cells to be filled shall be full-bedded in mortar to prevent leakage of grout. All heads (or end) joints shall be solidly filled with mortar for a distance in from the face of the wall or unit not less than the thickness of the longitudinal face shells. Bond shall be provided by lapping units in successive vertical courses (running bond).
2. Vertical cells to be filled shall have vertical alignment sufficient to maintain a clear, unobstructed continuous vertical cell measuring not less than 4 x 4.
3. Clean out openings shall be provided at the bottom of all cells to be filled at each pour of grout where such grout pour is in excess of 4'-0" in height. Any overhanging mortar or other obstruction or debris shall be removed from the insides of such cell walls. The clean outs shall be sealed before grouting, after inspection.
4. Vertical reinforcements shall be held in position at top and bottom and at intervals not exceeding 192 diameters of the reinforcement.
5. All cells containing reinforcement shall be filled solidly with grout. Grout shall be poured in lifts of 8'-0" maximum height. All grout shall be consolidated at time of pouring by puddling or vibrating and then reconsolidated by again puddling later, before plasticity is lost. When total grout pour exceeds 8'-0" in height the grout shall be placed in 4'-0" lifts and special inspection during grouting shall be required.

C.) COLD WEATHER CONSTRUCTION:

No masonry shall be laid when the temperature of the outside air is below 40 degrees F, unless approved methods are used during construction to prevent damage to the masonry. Such methods shall include protection of the masonry for a period of at least 48 hours where masonry cement or Type I portland cement is used in the mortar and grout and for a period of at least 24 hours where Type III portland cement is used. Materials to be used and materials to be built upon shall be free from ice or snow.

NOTE OF COORDINATION

The intent of the structural drawings is to show the framing and foundation systems schematically. These drawings must be coordinated with the existing building, architectural, mechanical, electrical, plumbing, and site drawings, along with actual site and soil conditions encountered to determine actual relationships. The drawings are not intended to be shop drawings or to be used for determining layout, wall sizes, dimensions, equipment sizes, or other items which are dependent upon other disciplines.

SOILS NOTE

Structural engineer has not received a geotechnical report regarding soil bearing pressure and any proof rolling or undercutting, backfilling requirements, etc., if required. Footings have been sized based on 2,000 psf soil bearing value as directed by architect and / or owner. Contractor to verify soils conditions with geotechnical engineer prior to construction.

GENERAL NOTES

1. The general contractor shall verify all dimensions and site conditions before starting work. The Architect shall be notified of any discrepancy.
2. The intent of these drawings is that all material and workmanship shall conform to the 2018 International Building Code, ACI, AISC, AWS, and all other applicable codes governing work indicated on drawings, latest adopted edition.
3. The design adequacy and safety of erection bracing, shoring, etc., is the sole responsibility of the Contractor. Walls which support joists, rafters, etc., and are laterally supported by same shall be braced until all construction is completed.
4. The Contractor shall coordinate the architectural, mechanical, and electrical drawings with the structural drawings.
5. Contractor to verify all wall locations, thicknesses, and dimensions with architectural drawing.
6. Although walls shown on structural drawings in general match the architectural drawings, the contractor is to verify that all walls which may not match have similar framing members as shown for similar spans shown in other locations.
7. The general contractor shall coordinate the placement of footings, columns, slabs, walls, shafts, etc., with all sub-contractors involved.
8. Contractor to coordinate top of footing elevation with plumbing, mechanical, electrical, site conditions, etc.
9. Note that existing conditions which are shown on the drawings are taken from previous architectural/engineering drawings. All dimensions and other conditions which affect the alignment, heights, etc. shall be field verified prior to fabrication.
10. The intent of these drawings is to be part of a "Design-Build" project. Although engineer has attempted to show construction, engineer and contractor are to coordinate any areas not noted on structural drawings. Any additional information required will be provided during construction.
11. The general contractor/construction manager shall review all shop drawings/submittals and note all items which deviate from the requirement of the construction documents. No substitutions or deviations will be allowed unless noted and reviewed by design team.
12. The general contractor to coordinate size, weight, bearing conditions, count, and locations of the mechanical units prior to shop drawing submittal/review. Contractor/supplier to supply shims, connectors, isolators, etc. as for installation of mechanical units.
13. Design loads are as follows:
    Dead load = ... weight of materials as shown.
    Roof live load =. . . . 20 psf
    Floor live load = . . . 100 psf
    Wind load = ... 115 mph
    Snow Load = ... 10 psf

LIGHT GAUGE STEEL TRUSS NOTES

1. All steel trusses to be designed and manufactured by a truss supplier.
2. All recommendations as to bracing, quality control, and design to be as per specifications and applicable codes.
3. Trusses to be designed by a registered engineer in the state of Tennessee.
4. Provide shop drawings with stress diagrams and/or calculations with seal of designing engineer.
5. Shop drawings to include plan showing layout, details of trusses, bracing, and any other information required to complete truss portion of project. Drawings to be original documents, not a reproduction of contract drawings. Shop drawings cannot be reviewed without layout plan and engineer's seal.
6. Review all drawings including mechanical, electrical, plumbing, architectural, etc., to ascertain loads from equipment, opening for ducts, etc., and provide modifications to trusses if required to support same.
7. Provide special designed trusses for hips, valleys, concentrated loads from partitions, headers, etc.
8. At areas where trusses require headers to adjacent trusses, provide headers as determined by acceptable engineering design.
9. Unless noted or shown otherwise, design trusses for the following loads (Also see note #7):
   Roof Trusses:
   a. Live load top chord = 20 psf
   b. Dead load top chord = 13 psf
   c. Dead load bottom chord = 12 psf
   d. Wind load = 115 mph
   e. Seismic load = See "Seismic Design Data"
10. Truss layout as shown on plans is schematic and may be modified with approval of architect/engineer.
11. Although web layout may be shown on plans it is the responsibility of the truss designer to accept, approve, or modify as required for design purposes.
12. Maximum spacing of trusses shall be 24" o.c..
13. Contractor and supplier to provide all labor and materials to complete truss portion of project.
14. No qualifying statements or exceptions to plans or notes to be allowed.
15. Connect steel trusses to beams as per manufacturer's specifications (see note #4). All anchors to be installed as per manufacturer's specifications.
16. Trusses to be designed such that they apply no horizontal loads to support members.

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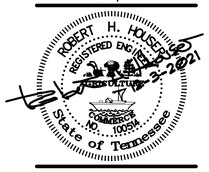
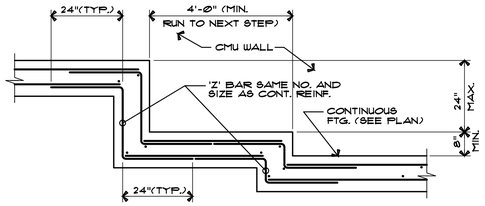


STRUCTURAL NOTES

DATE:	3 DEC. 2021
PROJECT NO.:	21074
PROJECT MGR.:	RHH

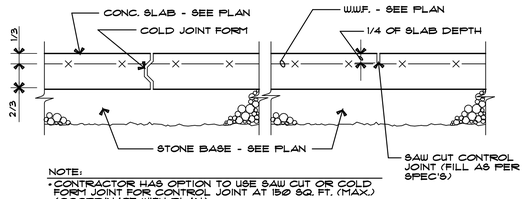
S1.0

CONSTRUCTION DOCUMENTS 12/3/21



1 / S1.1 ELEV. OF FOOTING STEP

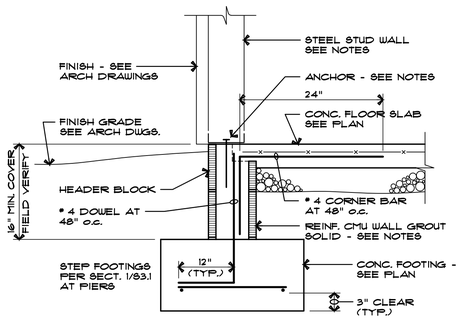
SCALE: 1/2"=1'-0"



NOTE:
- CONTRACTOR HAS OPTION TO USE SAW CUT OR COLD FORM JOINT FOR CONTROL JOINT AT 150 SQ. FT. (MAX.) (COORDINATE WITH PLAN)
- ALL SAW CUT JOINTS TO BE "WET CUT" (IMMEDIATELY FOLLOWING FINISHING PROCEDURES)

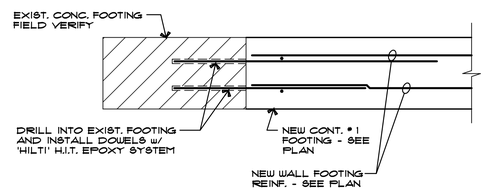
2 / S1.1 DETAIL OF CONTRACTION JOINT

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



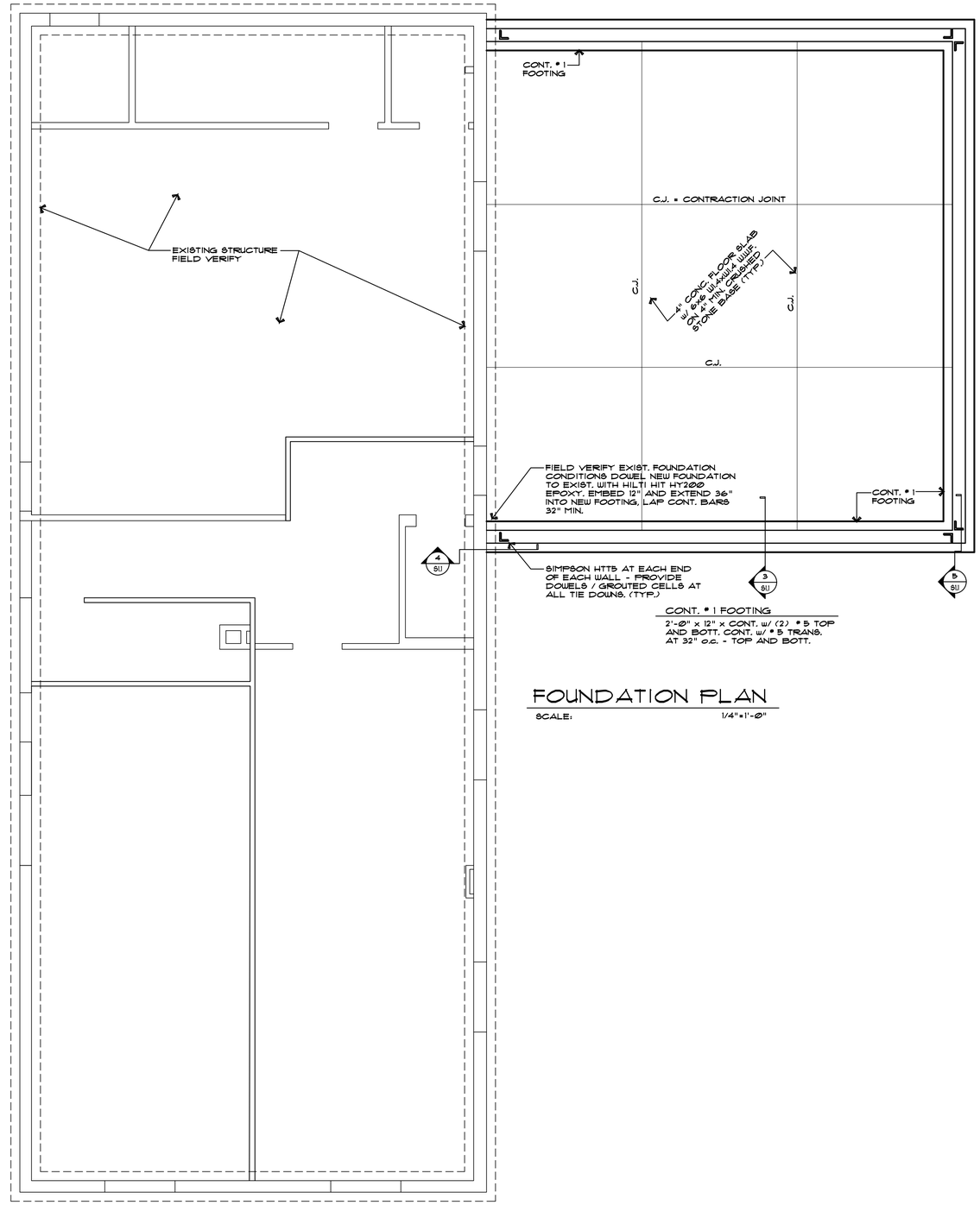
3 / S1.1 SECT. AT EXTERIOR FOOTING

SCALE: 1"=1'-0"



4 / S1.1 SECT. AT EXIST. / NEW FOOTING

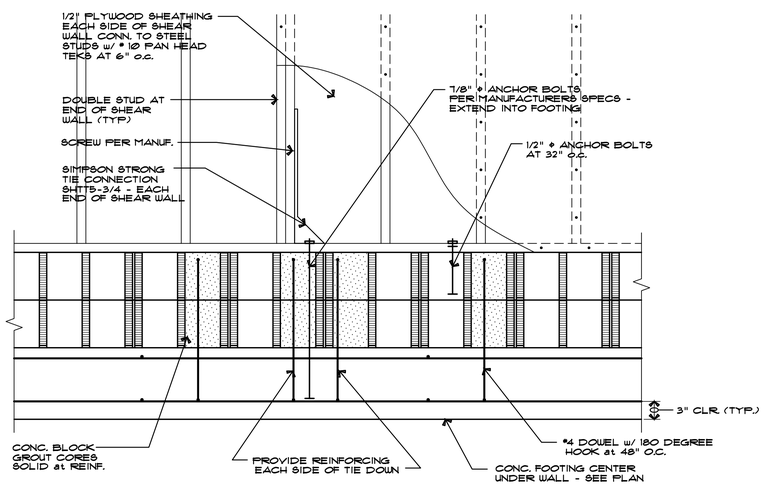
SCALE: 1"=1'-0"



CONT. #1 FOOTING
2'-0" x 12" x CONT. w/ (2) #5 TOP AND BOTT. CONT. w/ #5 TRANS. AT 32" o.c. - TOP AND BOTT.

FOUNDATION PLAN

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



5 / S3 ELEVATION of SHEAR PANEL

SCALE: 1"=1'-0"

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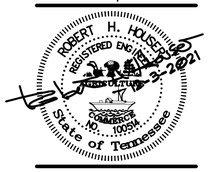
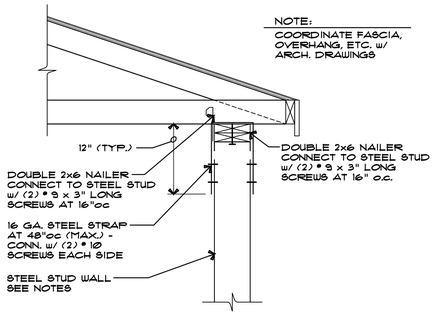


FOUNDATION PLAN
STRUCTURAL DETAILS

DATE: 3 DEC. 2021
PROJECT NO.: 21074
PROJECT MGR.: RHH

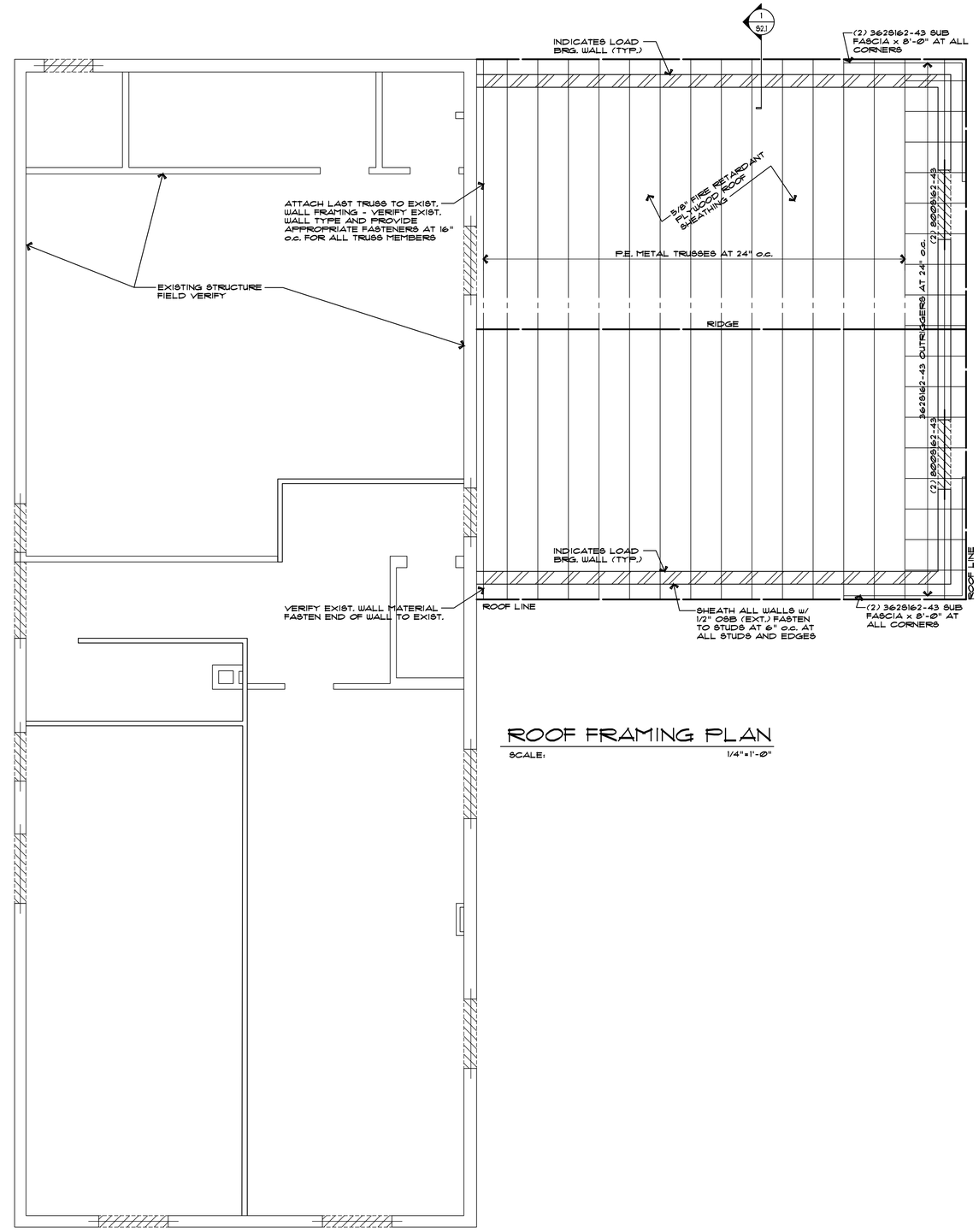
S1.1

CONSTRUCTION DOCUMENTS 12/3/21



1 / S2.1 SECT at TRUSS BEARING

SCALE: 1"=1'-0"



ROOF FRAMING PLAN

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

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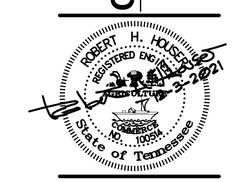


ROOF FRAMING PLAN
STRUCTURAL DETAILS

DATE: 3 DEC. 2021
PROJECT NO.: 21074
PROJECT MGR.: RHH

S2.1

CONSTRUCTION DOCUMENTS 12/3/21

FIRE PROTECTION SPECIFICATIONS

1. FURNISH ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, AND PERFORM ALL WORK AND SERVICES NECESSARY FOR OR INCIDENTAL TO THE MODIFICATION OF THE EXISTING SPRINKLER SYSTEM. ALL MATERIAL SHALL BE NEW, UNUSED, AND OF FIRST CLASS CONSTRUCTION, DESIGNED AND GUARANTEED TO PERFORM THE SERVICE REQUIRED. ALL WORK SHALL BE PERFORMED BY A LICENSED SPRINKLER CONTRACTOR.

2. THE FIRE PROTECTION / FIRE DETECTION AND ALARM SYSTEMS SHALL USE UL LISTED MATERIALS AND EQUIPMENT, AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND NFPA 13.

3. THE OCCUPANCY CLASSIFICATION IS LIGHT HAZARD.

4. ALL INTERIOR PIPING ABOVE GROUND SHALL BE SCHEDULE 40 OR SCHEDULE 10 BLACK STEEL PIPE WITH 175 POUND C.I. OR VICTAULIC COUPLINGS, 2 INCHES AND LARGER. CONNECTIONS AROUND VALVES AND SERVICE CONNECTIONS MAY BE 175 POUND FLANGED. GROOVED END FITTINGS SHALL BE SHORT-PATTERN WITH FLOW EQUAL TO STANDARD PATTERN FITTINGS, VICTAULIC "FIRELOCK" OR VICTAULIC INSTALLATION READY FITTINGS. FITTINGS 2" AND LESS SHALL BE 175 POUND C.I. GROOVED JOINT COUPLINGS SHALL CONSIST OF TWO DUCTILE IRON HOUSING SEGMENTS, PRESSURE RESPONSIVE ELASTOMER GASKET AND ASTM A-449 ZINC-ELECTROPLATED STEEL BOLTS AND NUTS.

5. IN LIEU OF THREADED 1" STEEL PIPING SYSTEMS, THE VICTAULIC FIRELOCK IGS SYSTEM WITH IR FITTINGS AND COUPLINGS FOR NPS 1 (DN 25) SCHEDULE 10 AND SCHEDULE 40 CARBON STEEL PIPE MAY BE USED.

6. ALL SPRINKLER HEADS SHALL BE THE QUICK RESPONSE TYPE BE UL LISTED. ALL SPRINKLER HEADS SHALL BE OF TYPE AND OPERATING TEMPERATURE AS REQUIRED BY SPECIFIC LOCATIONS OF INSTALLATION. VICTAULIC FIRELOCK STYLE V9 COUPLING MAY BE USED TO JOIN ½", ¾" AND 1" SPRINKLERS.

7. ALL SPRINKLER HEADS LOCATED IN HORIZONTAL, FLAT CEILINGS IN FINISHED SPACES SHALL BE RECESSED, CHROME PENDANT TYPE HEADS. TWO PIECE ESCUTCHEONS SHALL BE USED.

8. FLEXIBLE HOSE CONNECTIONS TO SPRINKLER HEADS MAY BE USED BUT SHALL BE EQUAL TO VICTAULIC AH2 HOSE WITH AB2/AH2CC BRACKET. IN LIEU OF RIGID CONNECTIONS TO DRY SPRINKLER HEADS, A VICTAULIC VICFLEX™ DRY SPRINKLER, MODEL VS1, MAY BE USED. THE SPRINKLER SHALL PROVIDE A VERTICAL OR HORIZONTAL FLEXIBLE CONNECTION WITH A BEND RADIUS TO 2", AND ALLOW FOR UP TO 4 BENDS. VACTAULIC AB6 BRACKET MAY BE USED.

9. COORDINATE LOCATION OF ALL SPRINKLER HEADS WITH ARCHITECTURAL REFLECTED CEILING PLAN. HEADS SHALL BE CENTERED IN CEILING TILES. PROVIDE ADDITIONAL HEADS AS REQUIRED TO MAINTAIN SPRINKLER COVERAGE.

10. THE SPRINKLER SYSTEM SHALL COMPLY WITH ALL CODES, REQUIREMENTS, REGULATIONS AND PROVISIONS OF THE LAW OF THE STATE OF TENNESSEE AND NFPA.

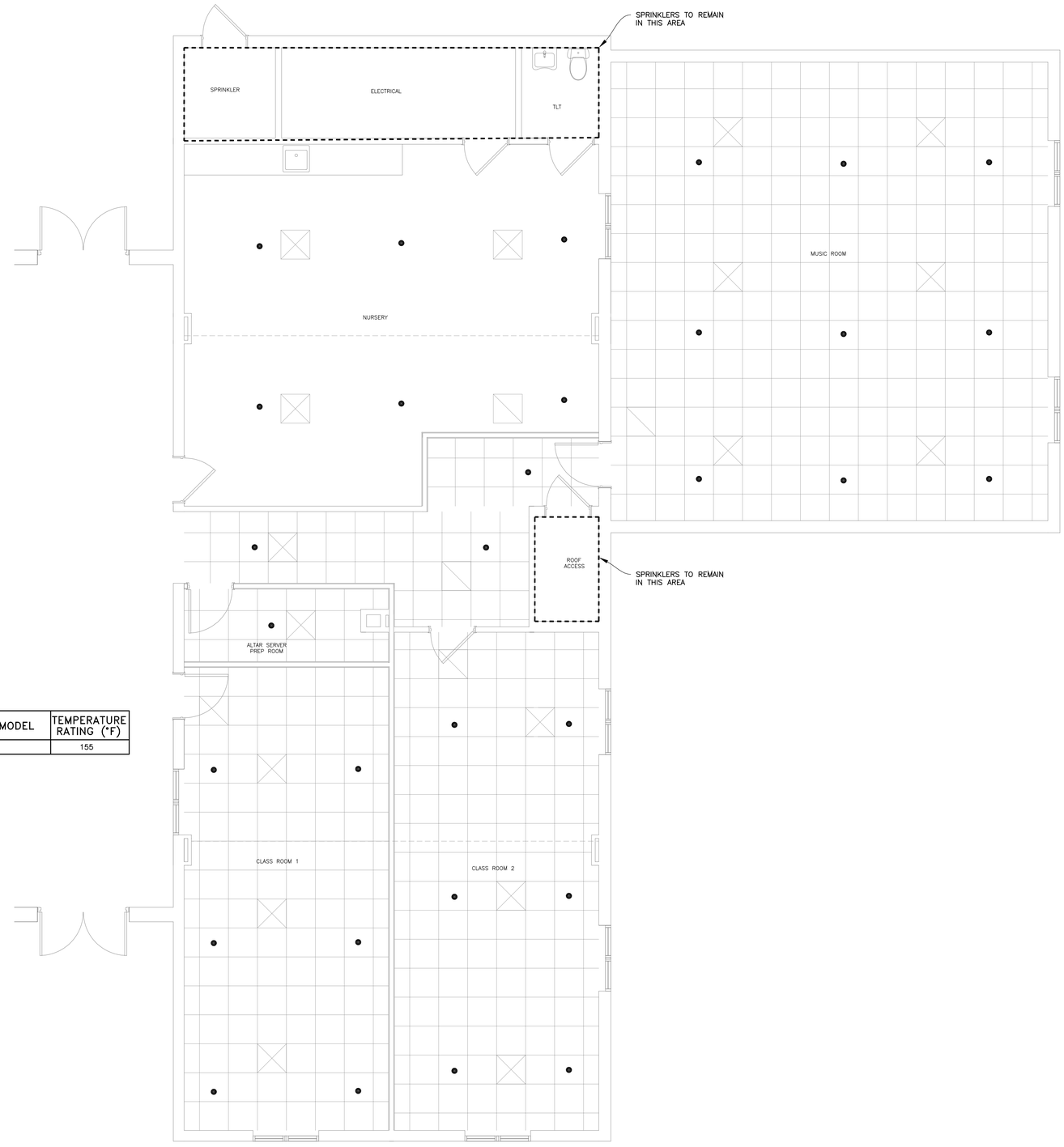
11. SPARE HEADS OF EVERY TYPE USED ON THE PROJECT SHALL BE INCLUDED IN THE SPARE HEAD CABINET. A SPRINKLER WRENCH SPECIFICALLY ADAPTED TO REMOVAL AND REPLACEMENT OF EVERY TYPE OF HEAD USED ON THE PROJECT SHALL BE INCLUDED IN THE SPARE HEAD CABINET.

12. WORK INCLUDED HEREIN SHALL INCLUDE ALL TESTS AND INSPECTIONS (IF REQUIRED) BY THE INSPECTING AGENCIES AND ANY PERMITS OR INSPECTION FEES CONNECTED THEREWITH. FOLLOWING ALL TESTING, THE SYSTEM SHALL BE RETURNED TO A FUNCTIONAL AND OPERATIONAL CONDITION AT NO EXTRA COST TO THE OWNER. AFTER APPROVAL, THE CONTRACTOR SHALL OBTAIN THE APPROVAL CERTIFICATES (IF REQUIRED) AND DELIVER THEM TO THE ARCHITECT.

13. THESE DRAWINGS ARE FOR CONCEPT ONLY, THEY ARE NOT INTENDED TO BE USED FOR TAKE-OFF, ACTUAL HEAD NUMBERS OR ACTUAL DESIGN USE. THE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A COMPLETE WORKING SYSTEM COMPLETE WITH ALL WORKING PARTS IN ACCORDANCE WITH ALL APPLICABLE CODES. PROVIDE ANY ADDITIONAL HEADS REQUIRED DUE TO BLIND OR SHADED AREAS AT NO ADDITIONAL COST.

SPRINKLER LEGEND

SYMBOL	GENERAL DESCRIPTION	K FACTOR	TYPE	VICTAULIC MODEL	TEMPERATURE RATING (°F)
●	RECESSED PENDENT	5.6	QUICK RESPONSE	V2708	155



TRUE NORTH

FLOOR PLAN – FIRE PROTECTION

1/4"=1'-0"

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STEVEN DANIEL SMITH
REGISTERED ENGINEER
AGRICULTURE
03/02/22
NO. 116221
STATE OF TENNESSEE

FLOOR PLAN - FIRE PROTECTION

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DATE: 03 DEC 2021
PROJECT NO.: 21074
PROJECT MGR.: G. SLACK

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HVAC SPECIFICATIONS

1. FURNISH ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO INSTALL A COMPLETE HEATING AND COOLING SYSTEM AS INDICATED AND SPECIFIED ON THE DRAWINGS.
2. WORK SHALL COMPLY WITH IMC, NFPA, ALL APPLICABLE LAWS, ORDINANCES & CODES OF THE STATE OF TENNESSEE, LOCAL AUTHORITIES HAVING JURISDICTION AND WITH APPLICABLE RULES & REGULATIONS.
3. OBTAIN ALL PERMITS & INSPECTIONS REQUIRED FOR THE COMPLETION OF THE WORK & PAY ALL FEES & COSTS IN CONNECTION THEREWITH.
4. THE MECHANICAL DRAWINGS ARE GENERALLY DIAGRAMMATIC AND UNLESS SPECIFICALLY DIMENSIONED, THE LOCATIONS OF DUCTWORK AND EQUIPMENT AND THE ROUTING OF DUCTWORK IS APPROXIMATE ONLY AND SHALL NOT BE SCALED FROM THE MECHANICAL DRAWINGS.
5. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
6. SUBMIT TO THE ARCHITECT FOR APPROVAL, 10 DAYS AFTER RECEIPT OF NOTICE TO PROCEED WITH THE WORK, A COMPLETE LIST OF MATERIALS, EQUIPMENT AND ACCESSORIES PROPOSED FOR USE, INCLUDING COMPLETE DESCRIPTIONS AND SPECIFICATIONS OF ANY PROPOSED SUBSTITUTIONS, MANUFACTURER'S SHOP DRAWINGS, ROUGHING-IN DRAWINGS, AND ANY OTHER INFORMATION REQUIRED FOR THE PROPER INSTALLATION OF THE WORK. SUBMITTALS SHALL BE IN PDF FORMAT (NO PAPER COPIES).
7. ALL DUCTWORK SHALL BE GALVANIZED STEEL FABRICATED ACCORDING TO SMACNA DETAILS. DUCTS SHALL BE SIZE INDICATED ON DRAWINGS (NET INSIDE DIMENSIONS), RIGIDLY BRACED, ADEQUATELY SUPPORTED & SECURELY FASTENED IN PLACE.
8. FLEXIBLE DUCT FOR INSULATED SYSTEMS SHALL BE THERMAFLEX M-KF, OR EQUAL, PRE-INSULATED DUCT WITH A MINIMUM R-VALUE OF 6.0. FLEXIBLE DUCT FOR NON-INSULATED DUCT SYSTEMS SHALL BE THERMAFLEX S-LD, OR EQUAL. ALL FLEXIBLE DUCT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. DUCT RUNS SHALL BE AS STRAIGHT AS POSSIBLE AND LIMITED TO MAXIMUM OF 5 FEET IN LENGTH.
9. INSULATE ALL SHEET METAL SUPPLY AIR DUCTWORK WITH 2.2" THICK OWENS-CORNING ASW DUCTWRAP. THOROUGHLY TAPE ALL JOINTS AND SEAMS.
10. LINE ALL DUCTWORK (IN ADDITION TO DUCTWRAP) WITH 1" THICK OWENS-CORNING FIBERGLASS DUCT LINER WHERE INDICATED ON THE DRAWINGS.
11. GRILLES AND CEILING OUTLETS SHALL BE PRICE, OR EQUAL, STEEL CONSTRUCTION WITH ELECTRO-DEPOSITION PAINTED FINISH, SIZE SHOWN ON THE DRAWINGS AND SCHEDULED AS FOLLOWS.

    CD CEILING DIFFUSER, PRICE MODEL SMD-3P SQUARE NECK, LOUVERED FACE DIFFUSER, LAY-IN TYPE, 4-WAY BLOW WITH RECTANGULAR OPPOSED BLADE DAMPER. FURNISH WITH SQUARE-TO-ROUND ADAPTER WHERE ROUND DUCT IS INDICATED ON DRAWINGS.

    CR CEILING RETURN, PRICE MODEL 80D-TB EGG CRATE RETURN GRILLE, LAY-IN TYPE, 1/2" CUBES WITH OPPOSED BLADE DAMPER. FURNISH WITH SQUARE-TO-ROUND ADAPTER WHERE ROUND DUCT IS INDICATED ON DRAWINGS.
12. ELECTRIC DUCT HEATERS SHALL BE THE OPEN COIL TYPE, U.L. LISTED, FURNISHED WITH MAGNETIC CONTRACTORS, BRANCH CIRCUIT FUSING, CONTROL TRANSFORMER, DOOR INTERLOCK DISCONNECT, THERMAL PROTECTION DEVICES, AIR FLOW SWITCH AND OVER TEMPERATURE CONTROL. THE HEATERS SHALL BE THE INSERT TYPE WITH A HINGED, BARS SHALL BE OF ALUMINIZED STEEL. ELEMENT WIRE OF 80% NICKEL AND 20% CHROMIUM SHALL BE STRUNG ON HEATER WITH A STRETCH RATIO OF NOT LESS THAN 2:1.
13. WHEN THE INSTALLATION IS COMPLETE, IT SHALL BE RUN & ADJUSTED BY THE CONTRACTOR. ANY EXCESSIVE NOISE OR VIBRATION SHALL BE CORRECTED.
14. SUBMIT WRITTEN AIR BALANCE REPORT TO THE ARCHITECT A MINIMUM OF 10 DAYS PRIOR TO THE FINAL INSPECTION. THE AIR BALANCE CONTRACTOR SHALL BE AABC OR NEBB CERTIFIED.
15. THE CONTRACTOR SHALL INSTRUCT THE OWNER IN THE OPERATION OF EQUIPMENT & PROVIDE THE OWNER WITH A COMPLETE SET OF OPERATING INSTRUCTIONS FOR EQUIPMENT INSTALLED UNDER HIS CONTRACT.
16. THE WORK SHALL BE GUARANTEED AGAINST ALL DEFECTIVE MATERIALS & EQUIPMENT FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE. THE CONTRACTOR SHALL MAKE ALL NECESSARY CORRECTIONS WITHOUT COST TO THE OWNER.

ROOFTOP UNIT (RTU) SCHEDULE

MARK	AIR SYSTEM				COOLING CAPACITY		NATURAL GAS HEATING CAPACITY		HOT GAS REHEAT	SINGLE ZONE VAV	EER	MCA	MOCP	VOLTAGE & PHASE	UNIT WEIGHT (LBS)	SMOKE DETECTOR		NOMINAL TONNAGE	TRANE MODEL
	TOTAL CFM	MIN. O.A. CFM	MINIMUM FAN HP	EXT. STATIC (INCHES W.G.)	SENSIBLE (MBH)	TOTAL (MBH)	MBH IN	MBH OUT								RETURN	SUPPLY		
4	4000	450	2.75	0.75	88.0	113.9	200	160	NO	YES	11.2	49.0	60.0	208/3	1300	YES	YES	10.0	YSC120H3

NOTES:

(1) VERIFY VOLTAGE BEFORE ORDERING EQUIPMENT

(2) COOLING RATINGS FOR 95°F AMBIENT; 67°WB & 80°DB E.A.T.

(3) SMOKE DETECTORS SHALL BE FURNISHED ELECTRICAL CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR. DETECTORS SHALL MEET ALL REQUIREMENTS OF THE INTERNATIONAL MECHANICAL CODE SECTION 606.

(4) WEIGHT INCLUDES ACCESSORIES; 200 LBS WAS ALLOWED FOR THE CURB ADAPTOR

(5) UNIT SHALL BE FURNISHED WITH MICROPROCESSOR CONTROLS, TWO COMPRESSORS, LOW AMBIENT COOLING TO 0°F, ROOF CURB, 100% ECONOMIZER AND POWERED EXHAUST

(6) UNIT SHALL BE FURNISHED WITH A 7-DAY PROGRAMMABLE THERMOSTAT & CO_2 SENSOR FOR DEMAND-CONTROLLED VENTILATION; O.A. DAMPER OPENS ONLY DURING OCCUPIED PERIODS

(7) UNITS SHALL BE FURNISHED WITH SINGLE ZONE VAV CONTROLLER

(8) PROVIDE CURB ADAPTOR AS REQUIRED

DUCT HEATER (DH) SCHEDULE

MARK	CFM	DUCT SIZE (WIDTH x HEIGHT)	WATTS	STEPS	VOLTS/ PHASE	MFGR & MODEL NO.
1	740	12x12	2500	1	208-1	MARKEL SERIES HF
2	840	12x12	2500	1	208-1	MARKEL SERIES HF

NOTES:

(1) VERIFY VOLTAGE BEFORE ORDERING EQUIPMENT

(2) PROVIDE WALL MOUNTED THERMOSTAT

(3) UNITS SHALL BE FURNISHED AND INSTALLED WITH DIFFERENTIAL PRESSURE FAN INTERLOCK AND DISCONNECT

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SCHEDULES & SPECIFICATIONS

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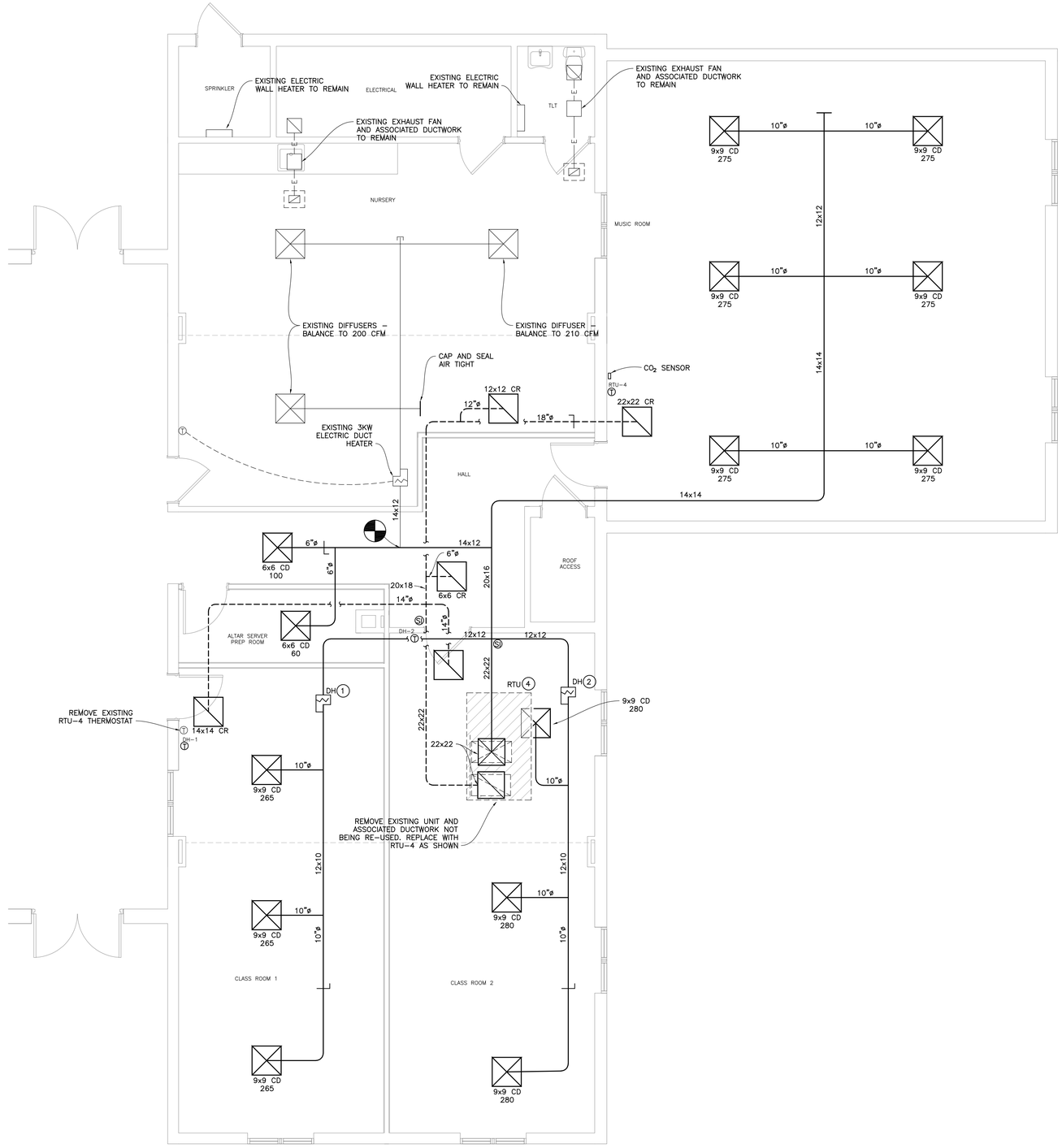
DUCT LEGEND

- SUPPLY DUCT
- EXISTING SUPPLY DUCT
- RETURN DUCT
- EXHAUST
- EXISTING EXHAUST
- BUTTERFLY DAMPER
- 90° ELBOW WITH TURNING VANES (USE LONG RADIUS ELBOW IF ROUND DUCT)
- STICK ON FITTING WITH DAMPER FOR ALL ROUND TAKE-OFFS (21x10, 22x10, 6"ø, 21x10, 22x10)
- 45° TAKE-OFF (21x10, 22x10, 6x6)
- ROUND TO ROUND STICK ON FITTING WITH DAMPER (8"ø, 6"ø, 6"ø)
- SUPPLY
- RETURN OR EXHAUST
- INDICATES 1" THICK DUCT LINER FROM THIS POINT BACK TO AIR UNIT
- THERMOSTAT – HIGHEST OPERATING PART SHALL BE 48" A.F.F.
- EXISTING THERMOSTAT
- ELECTRIC DUCT HEATER
- EXISTING ELECTRIC DUCT HEATER
- INDICATES CONNECTION OF NEW DUCTWORK TO EXISTING

GENERAL NOTES:

1. EXISTING DUCT AND DIFFUSERS MAY BE RE-USED IF SAME/EQUIVALENT SIZE OR LARGER. REMOVE UN-USED DUCT.



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FLOOR PLAN – HVAC

1/4"=1'-0"

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GENERAL WIRING NOTES:

1. EACH LIGHTING FIXTURE SHALL BE STRUCTURALLY SUPPORTED; DO NOT USE CONDUIT FOR SUPPORT OF EITHER FIXTURES OR BOXES.
2. USE FLEXIBLE METAL CONDUIT (GREENFIELD) OR MC CABLE IN INDIVIDUAL LENGTHS NOT EXCEEDING 6'–0" FOR FINAL FOR CONNECTION OF LAY–IN FIXTURES.
3. THROUGH WIRING OF LIGHTING FIXTURES SHALL NOT BE PERMITTED UNLESS NOTED OTHERWISE..
4. EACH LIGHTING FIXTURE SHALL HAVE ITS OWN BOX UNLESS OTHERWISE ILLUSTRATED.
5. UNLESS NOTED OTHERWISE, ALL OVERHEAD WIRING INSIDE BUILDING SHALL BE IN METALLIC RACEWAY. EXPOSED WIRING ON EXTERIOR OF BUILDING SHALL BE GALVANIZED RIGID STEEL. ELSEWHERE, ALL OVERHEAD WIRING INSIDE BUILDING SHALL BE RUN IN ELECTRIC–METALLIC TUBING (EMT). CONDUIT IN MEDICAL FACILITIES SHALL BE RIGID STEEL.
6. SCHEDULE 40 PVC CONDUIT SHALL BE PERMITTED FOR UNDERSLAB WIRING. UTILIZE RIGID STEEL "ELBOWS" WHERE CONDUIT TURNS UP THROUGH FLOOR SLAB.
7. ALL CONDUCTORS SHALL BE COPPER, "THHN/THWN" INSULATED. COLOR CODE ALL CONDUCTORS. MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG, WITH LARGER SIZES PROVIDED WHERE SPECIFICALLY NOTED ON PLANS OR WHERE REQUIRED TO MEET NEX VOLTAGE DROP REQUIREMENTS. REFER TO VOLTAGE DROP TABLE FOR ADDITIONAL INFORMATION.
8. PROVIDE A SEPARATE CODE–SIZE EQUIPMENT GROUNDING CONDUCTOR IN ALL WIRING RUNS.
9. ALL CONDUIT SHALL BE CONCEALED, UNLESS SPECIFIC APPROVAL IS GIVEN BY ARCHITECT FOR EXPOSED WIRING. EXCEPTIONS SHALL INCLUDE ELECTRICAL AND MECHANICAL EQUIPMENT ROOMS.
10. DO NOT COMBINE "HOMERUNS" TOGETHER IN A SINGLE CONDUIT UNLESS DIRECTED OTHERWISE.
11. CONDUIT SHALL BE PROPERLY SUPPORTED USING STRAPS AND CLAMPS. TIE WIRES WILL NOT BE APPROVED.
12. UTILIZE MINIMUM BOX DEPTH OF 2–1/8", UNLESS DIRECTED OTHERWISE. ALL BOXES SHALL BE 4" SQUARE UNLESS SPECIFIC PERMISSION IS GIVEN FOR USE OF SINGLE–GANG BOXES PROVIDE SINGLE–GANG DEVICE RINGS WHERE ONLY ONE DEVICE IS ILLUSTRATED.

CONDUCTOR SIZE TABLE

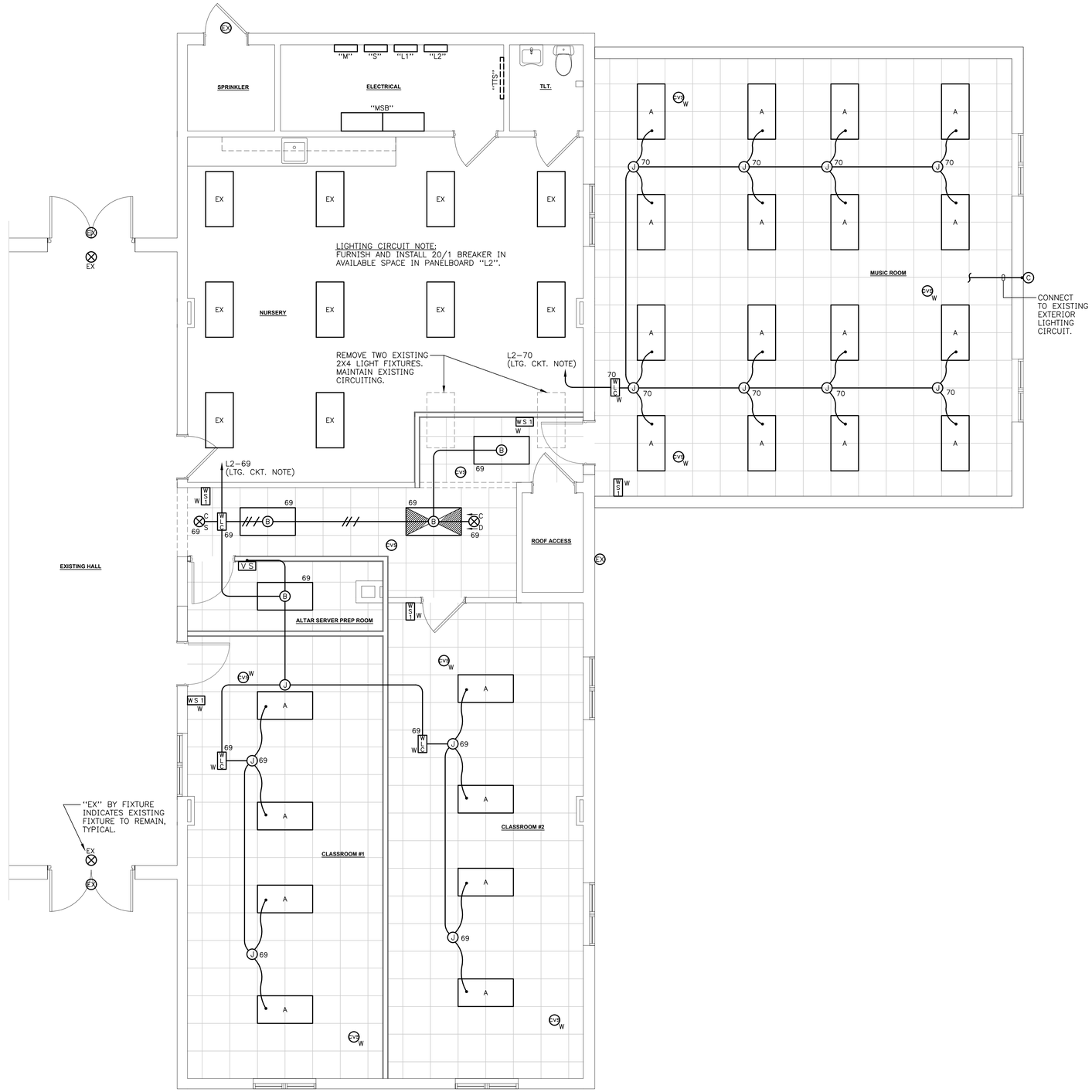
FOR 20 AMP BRANCH CIRCUITS, THE FOLLOWING ARE THE MAXIMUM ONE–WAY DISTANCES ALLOWED:

CONDUCTOR SIZE	120V	208V/1ø	208V/3ø	277V	480V/3ø
NO. 12	80'	140'	225'	180'	550'
NO. 10	125'	215'	425'	225'	–
NO. 8	195'	340'	665'	435'	–

TABLE IS BASED ON 3% VOLTAGE DROP ON 12.0 F.L.A., 0.85 POWER FACTOR. USE LARGER SIZES IF SPECIFICALLY NOTED ON PLANS.

VOLTAGE DROP CALCULATION NOTES:

1. REFER TO CONDUCTOR SIZE TABLE FOR WIRE SIZING REQUIREMENTS FOR 20 AMPERE BRANCH CIRCUITS.
2. FOR ALL OTHER FEEDER AND BRANCH CIRCUIT WIRING SHOWN ON DRAWINGS, WIRE SIZING HAS BEEN SPECIFIED TO MEET VOLTAGE DROP REQUIREMENTS AS SET FORTH IN NFPA 70 (NEC) AND IECC C405.9.



FLOOR PLAN – LIGHTING

SCALE: 1/4" = 1'–0"

0' 2' 4' 8'

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MUSIC ROOM ADDITION FOR
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HAROLD E. DAMRON REGISTERED ENGINEER AGRICULTURE NO. 022989 STATE OF TENNESSEE
12-3-21

FLOOR PLAN - LIGHTING

DATE: 03 DEC 2021
PROJECT NO.: 21074
PROJECT MGR.: G. SLACK

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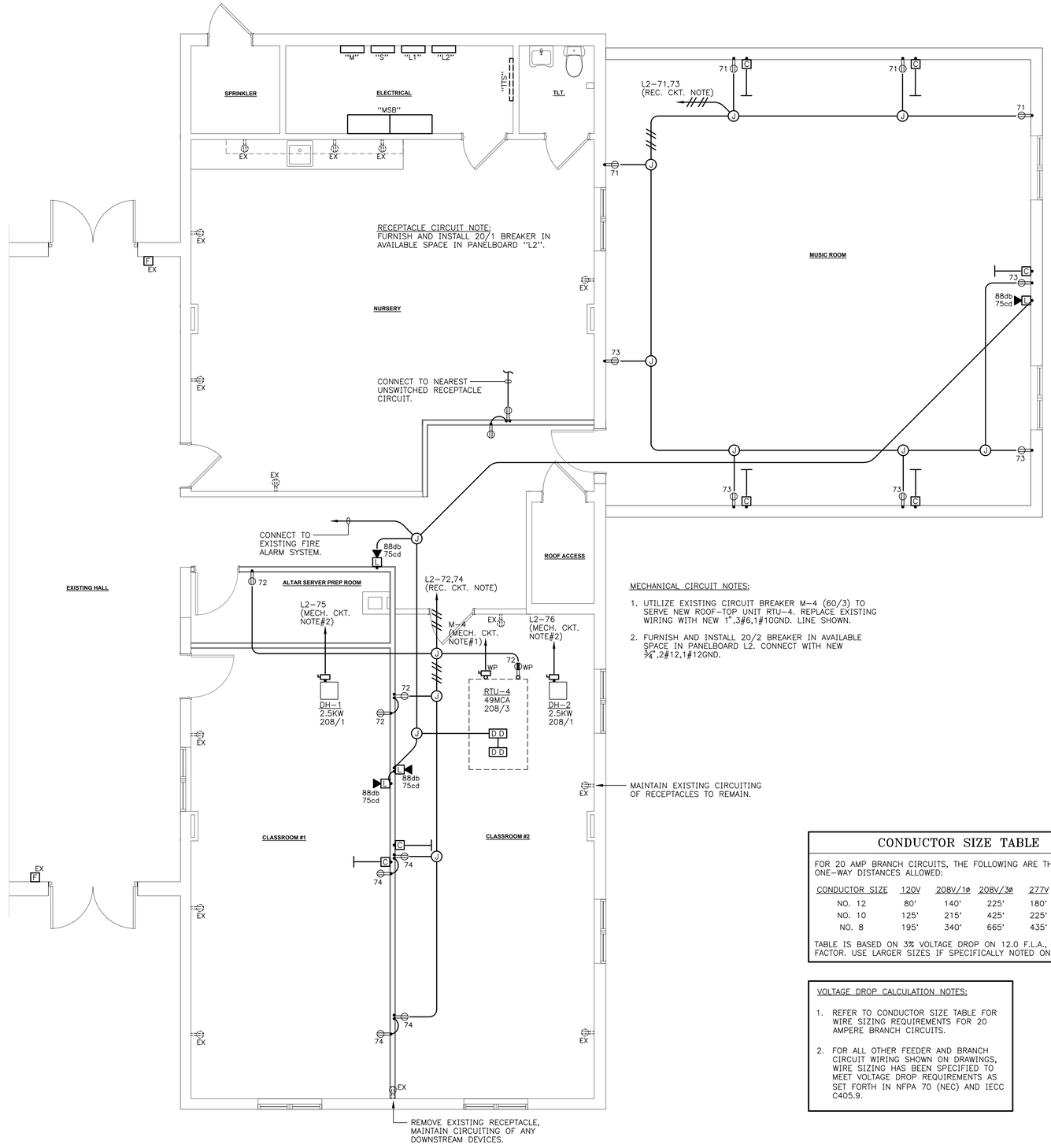

MECHANICAL CIRCUIT NOTES:

1. UTILIZE EXISTING CIRCUIT BREAKER M-4 (60/3) TO SERVE NEW ROOF-TOP UNIT RTU-4. REPLACE EXISTING WIRING WITH NEW 1",3#6,1#10GND. LINE SHOWN.
2. FURNISH AND INSTALL 20/2 BREAKER IN AVAILABLE SPACE IN PANELBOARD L2. CONNECT WITH NEW ¾",2#12,1#12GND.

CONDUCTOR SIZE TABLE

FOR 20 AMP BRANCH CIRCUITS, THE FOLLOWING ARE THE MAXIMUM ONE-WAY DISTANCES ALLOWED:

CONDUCTOR SIZE	120V	208V/1ø	208V/3ø	277V	480V/3ø
NO. 12	80'	140'	225'	180'	550'
NO. 10	125'	215'	425'	225'	–
NO. 8	195'	340'	665'	435'	–

TABLE IS BASED ON 3% VOLTAGE DROP ON 12.0 F.L.A., 0.85 POWER FACTOR. USE LARGER SIZES IF SPECIFICALLY NOTED ON PLANS.

VOLTAGE DROP CALCULATION NOTES:

1. REFER TO CONDUCTOR SIZE TABLE FOR WIRE SIZING REQUIREMENTS FOR 20 AMPERE BRANCH CIRCUITS.
2. FOR ALL OTHER FEEDER AND BRANCH CIRCUIT WIRING SHOWN ON DRAWINGS, WIRE SIZING HAS BEEN SPECIFIED TO MEET VOLTAGE DROP REQUIREMENTS AS SET FORTH IN NFPA 70 (NEC) AND IECC C405.9.

FLOOR PLAN – POWER AND COMMUNICATIONS

SCALE: ¼"=1'-0"

0' 2' 4' 8'

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FLOOR PLAN -POWER AND COMMUNICATIONS

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E1.2

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ELECTRICAL SPECIFICATIONS

1. SCOPE: FURNISH PLANT, LABOR, MATERIAL, SERVICES, AND EQUIPMENT NECESSARY FOR AND REASONABLY INCIDENTAL TO THE INSTALLATION OF ELECTRICAL FACILITIES SHOWN ON THE DRAWINGS AND CALLED FOR HEREINAFTER.

2. CODES AND PERMITS: SECURE NECESSARY PERMITS, PAY NECESSARY FEES, CONFORM TO ALL APPLICABLE LOCAL, STATE, AND NATIONAL CODES.

3. POWER SERVICE: POWER SERVICE FOR THE RENOVATED AREA SHALL BE TAKEN FROM EXISTING POWER DISTRIBUTION SYSTEM AS INDICATED ON DRAWINGS.

4. 600-VOLT WIRING: EXPOSED WIRING ON THE EXTERIOR OF THE BUILDING SHALL BE INSTALLED IN GALVANIZED RIGID STEEL CONDUIT. UNDERGROUND CONDUIT SHALL BE RUN IN SCHEDULE 40 PVC RACEWAY WITH GALVANIZED RIGID STEEL ELBOWS UTILIZED WHERE CONDUIT TURNS UP THROUGH CONCRETE FLOOR SLAB. INSIDE THE BUILDING, OVERHEAD WIRING SHALL BE INSTALLED IN ELECTRIC-METALLIC TUBING (EMT). ALL CONDUCTORS SHALL BE COPPER WITH "THHN/THWN" INSULATION. CONDUCTORS SHALL BE COLOR CODED IN CONNECTION WITH NATIONAL ELECTRICAL CODE REQUIREMENTS. SOLID CONDUCTORS SHALL BE UTILIZED FOR #10 AND #12 AWG WIRING AND STRANDED CONDUCTORS SHALL BE UTILIZED FOR WIRING LARGER THAN #10 AWG. ALL WIRING SHALL BE RUN IN A NEAT AND WORKMANLIKE MANNER, PARALLEL OR PERPENDICULAR TO BUILDING STRUCTURAL ELEMENTS WHERE CONDUIT IS INSTALLED.

5. WORK AT EXISTING PANELBOARDS: NEW CIRCUITS REQUIRED FOR WORK IN RENOVATION AREA SHALL BE TAKEN FROM EXISTING PANELBOARDS AS NOTED ON DRAWINGS. EXISTING SPACE AND SPARE CIRCUIT BREAKERS AS AVAILABLE IN EXISTING PANELBOARDS TO SERVE NEW CIRCUITS INDICATED. CONTRACTOR SHALL PROVIDE MODIFICATIONS TO EXISTING PANELBOARD CIRCUIT DIRECTORIES AS REQUIRED TO REFLECT CHANGES MADE AS PART OF THIS RENOVATION PROJECT. ALL CHANGES TO CIRCUIT DIRECTORIES SHALL BE TYPEWRITTEN. HANDWRITTEN MODIFICATIONS TO EXISTING DIRECTORIES SHALL NOT BE PERMITTED.

6. SAFETY SWITCHES: FURNISH AND INSTALL HEAVY-DUTY FUSIBLE SAFETY SWITCHES WHERE INDICATED ON DRAWINGS FOR HVAC EQUIPMENT, WATER HEATERS, FOOD SERVICE EQUIPMENT, COOLERS, ETC., AND OTHERWISE AS REQUIRED BY CODE. SAFETY SWITCHES SHALL BE HORSEPOWER RATED, QUICK-MAKE, QUICK-BREAK, WITH ARC SHIELDS WITH ENCLOSED CONSTRUCTION. SAFETY SWITCHES LOCATED OUTSIDE SHALL BE HOUSED IN NEMA 3R ENCLOSURES. INSIDE THE BUILDING, UTILIZE NEMA 1 ENCLOSURES FOR SAFETY SWITCHES. PROVIDE FUSING IN EACH SAFETY SWITCH IN ACCORDANCE WITH UNIT NAMEPLATE DATA. COORDINATE MOUNTING LOCATIONS OF ALL SAFETY SWITCHES WITH INSTALLER OF EQUIPMENT (I.E., HVAC, COOLERS, ETC.) PRIOR TO COMMENCING ROUGH-IN.

7. LIGHTING FIXTURES: FURNISH AND INSTALL LIGHTING FIXTURES WHERE NOTED ON DRAWINGS. REFER TO DRAWINGS AND LIGHTING FIXTURE SCHEDULE FOR REQUIREMENTS. CONFIRM CEILING ARRANGEMENT WITH GENERAL CONTRACTOR PRIOR TO ORDERING LIGHTING FIXTURES.

8. WIRING DEVICES: FURNISH AND INSTALL WIRING DEVICES INCLUDING WALL SWITCHES, DUPLEX PLUG RECEPTACLES, GFCI DUPLEX PLUG RECEPTACLES, ETC., AS INDICATED ON DRAWINGS. ALL WIRING DEVICES WILL BE TAMPER RESISTANT TYPE UNLESS NOT REQUIRED BY CODE WITH MINIMUM RATING OF 20-AMPERES FOR THE VOLTAGE SERVICE SUPPLIED. PROVIDE SPECIAL PURPOSE RECEPTACLES WHERE INDICATED ON DRAWINGS. DEVICE COLOR SHALL BE AS DIRECTED BY GC. COVERPLATES SHALL BE STAINLESS STEEL UNLESS DIRECTED TO BE SMOOTH NYLON PLASTIC BY GC.

9. COMMUNICATIONS RACEWAY FACILITY: FURNISH AND INSTALL A SYSTEM OF EMPTY CONDUIT AND BOXES FOR TELECOMMUNICATIONS WIRING. TYPICAL COMMUNICATIONS OUTLET SHALL CONSIST OF A 4-11/16" SQUARE BOX WITH AN EMPTY 1" CONDUIT STUBBED OUT FROM OUTLET BOX TO ACCESSIBLE CEILING LOCATION. PROVIDE PLASTIC BUSHING ON END OF EACH CONDUIT STUB-OUT LOCATION. CAREFULLY COORDINATE CONDUIT INSTALLATION LOCATION AND CONDUIT/BOX ROUGH-IN LOCATIONS PRIOR TO INSTALLATION. PROVIDE SUITABLE PULL RING/PULL ROPE IN ALL EMPTY CONDUITS.

10. MANUAL MOTOR STARTERS: FURNISH AND INSTALL MANUAL MOTOR STARTERS FOR 120-VOLT FRACTIONAL HORSEPOWER EXHAUST FANS AS SHOWN ON DRAWINGS. EACH MANUAL MOTOR STARTER SHALL BE SIMILAR AND EQUAL TO SQUARE D COMPANY 2510 SERIES, CATALOG NO. FF-1P.

11. EXIT SIGNS/EMERGENCY LIGHTING: FURNISH AND INSTALL COMBINATION EXIT SIGN/TWIN-HEAD EMERGENCY LIGHTING UNITS WHERE INDICATED ON DRAWINGS. UNITS SHALL BE LED TYPE WITH THERMOPLASTIC CARBONATE WHITE HOUSING WITH RED LETTERS. EACH UNIT SHALL BE EQUIPPED WITH A NICKEL CADMIUM STANDBY BATTERY BACKUP. UNITS SHALL BE LITHONIA QUANTUM SERIES OR EQUAL.

12. FIRE ALARM SYSTEM EXPANSION: EXPAND THE EXISTING BUILDING FIRE ALARM SYSTEM INTO RENOVATION AREA. ALL NEW DEVICES SHALL BE COMPATIBLE WITH EXISTING SYSTEM. PROVIDE NEW ALARM INITIATION DEVICES, ALARM NOTIFICATION DEVICES, ETC. CONTRACTOR SHALL INCLUDE IN BID PRICE ALL REQUIRED UPGRADES TO EXISTING FIRE ALARM CONTROL EQUIPMENT THAT ARE NEEDED TO INCORPORATE NEW DEVICES AND WIRING INTO SYSTEM. THIS SHALL INCLUDE, BUT NOT LIMITED TO, ADDITIONAL POWER SUPPLIES, BATTERY UPGRADES, CONTROL MODULES, MONITOR MODULES, RELAYS, NAC PANELS, ETC. CONTRACTOR SHALL ALSO INCLUDE ALL MATERIAL, LABOR, RE-PROGRAMMING, ETC., THAT IS NEEDED TO FULLY SYNCHRONIZE VISUAL STROBE OPERATION THROUGHOUT RENOVATION AREA, AS WELL AS WITH EXISTING VISUAL STROBES THAT ARE IN THE SAME FIELD OF VIEW OF ANY NEW WORK. PROVIDE NEW FIRE ALARM SYSTEM WIRING FOR RENOVATION AREA IN ACCORDANCE WITH RECOMMENDATION OF THE AUTHORIZED SERVICE REPRESENTATIVE OF THE EXISTING FIRE ALARM SYSTEM IN THE BUILDING. TEST SYSTEM AT CONCLUSION OF JOB. PROVIDE TEST REPORT TO ARCHITECT AS PART OF PROJECT CLOSEOUT.

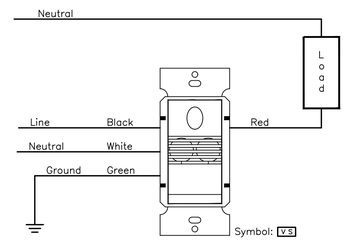
13. GROUNDING: PROVIDE A CODE-SIZED EQUIPMENT GROUNDING CONDUCTOR IN ALL NEW BRANCH CIRCUIT WIRING RUNS. GROUND EQUIPMENT AND LIGHTING FIXTURES IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE REQUIREMENTS.

14. GUARANTY: GUARANTEE ALL WORK TO BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR AFTER DATE OF FINAL ACCEPTANCE OF JOB.

LIGHTING FIXTURE SCHEDULE

DESIGNATION	ILLUMINATION: WATTS	ILLUMINATION: DELIVERED LUMENS	ILLUMINATION: COLOR TEMPERATURE (°K)	ILLUMINATION: MINIMUM CRI	MOUNTING: CEILING: PENDANT STEM LENGTH	MOUNTING: CEILING: SURFACE	MOUNTING: CEILING: RECESSED	MOUNTING: WALL: HEIGHT ABOVE FINISHED FLOOR OR GRADE	DESCRIPTION: SHIELDING, TYPE MATERIALS, FINISH, MOUNTING	MANUFACTURER'S PRODUCT ITEM: COMPANY	MANUFACTURER'S PRODUCT ITEM: CATALOG NO.	✱EQUAL PRODUCT PERMITTED: YES	✱EQUAL PRODUCT PERMITTED: NO	REMARKS
A	24.9	3469	3500	80	–		•		2X4 LENSED TROFFER, 0-10V DIMMING	H.E. WILLIAMS	50-G-S24-L33-8-35-S-AF12125-DIM	•		
B	24.9	3469	3500	80	–		•		2X4 LENSED TROFFER	H.E. WILLIAMS	50-G-S24-L33-8-35-S-AF12125-DRV	•		
C	25	2000	5000	70	–	•			WALL PACK	H.E. WILLIAMS	WPTZS-L20/750	•		
EX									EXISTING 2X4 OR EXTERIOR WALL MOUNTED LIGHT FIXTURE TO REMAIN					

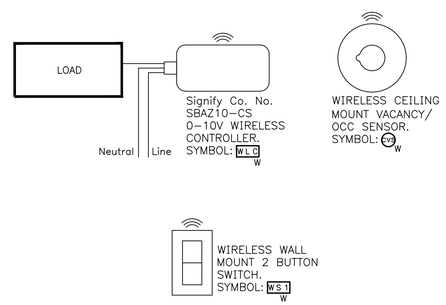
✱ UNLESS NOTED, EQUAL PRODUCT TO THAT SPECIFIED WILL BE ACCEPTED. THE DESIGN PROFESSIONAL SHALL HAVE SOLE JUDGEMENT CONCERNING EQUIVALENCY OF SUBSTITUTION.



Single Switch Manual On
Wattstopper Co. No. CS-50 IN TOILETS
Wattstopper Co. No. CU-250 ALL OTHER

WALL MOUNTED VACANCY SENSOR DETAIL

NO SCALE



WIRELESS LIGHTING CONTROL DETAIL

NO SCALE

L E G E N D

SYMBOL	DESCRIPTION
a (B) 2	LED LIGHTING FIXTURE; "B" REFERS TO DESIGNATION IN THE LIGHTING FIXTURE SCHEDULE; "a" REFERS TO SWITCH CONTROL; AND "2" REFERS TO CIRCUIT NUMBER.
	LED LIGHTING FIXTURE WITH BUILT-IN EMERGENCY BATTERY PACK TO PROVIDE LIGHTING UPON LOSS OF NORMAL POWER. PROVIDE SEPARATE UNSWITCHED ENERGIZED CONDUCTOR TO BATTERY PACK IN ORDER TO ALLOW NORMAL SWITCHING OF LIGHTING FIXTURES WITHOUT DISCHARGING BATTERY PACK.
W S C P D	EXIT SIGN, "W" INDICATES WALL MOUNTING, "C" INDICATES CEILING MOUNTING, "S" INDICATES SINGLE FACE, "D" INDICATES DOUBLE FACE, "P" INDICATES PENDANT MOUNTED. PROVIDE DIRECTIONAL ARROWS ON EXIT SIGNS AS INDICATED ON PLANS. "WG" BY DEVICE INDICATES WIRE GUARD TO BE PROVIDED. UNIT EQUIPPED WITH BATTERY BACK-UP.
W S C P D	EXIT SIGN WITH BUILT-IN TWIN HEAD EMERGENCY LIGHT, "W" INDICATES WALL MOUNTING, "C" INDICATES CEILING MOUNTING, "S" INDICATES SINGLE FACE, "D" INDICATES DOUBLE FACE, "P" INDICATES PENDANT MOUNTED. PROVIDE DIRECTIONAL ARROWS ON EXIT SIGNS AS INDICATED ON PLANS. "WG" BY DEVICE INDICATES WIRE GUARD TO BE PROVIDED. UNIT EQUIPPED WITH BATTERY BACK-UP.
	DUPLEX PLUG RECEPTACLE; 120-VOLTS; 20-AMPERES; MOUNT 3" ABOVE BACKSPLASH AT WORK COUNTERS AND LAVATORIES AND +18" AFF ELSEWHERE UNLESS NOTED TO A DIFFERENT HEIGHT. TAMPER RESISTANT, UNLESS NOT REQUIRED BY CODE.
	DUPLEX PLUG RECEPTACLE, 120-VOLTS, 20-AMPERES, SHADED CENTER INDICATES EQUIPPED WITH BUILT-IN GROUND FAULT CIRCUIT INTERRUPTER, MOUNT 3" ABOVE BACKSPLASH AT WORK COUNTERS/LAVATORIES AND +18" AFF ELSEWHERE UNLESS NOTED TO A DIFFERENT HEIGHT. PROVIDE WEATHER RESISTANT DEVICE AND WEATHERPROOF "EXTRA DUTY WHILE IN USE" COVER WHERE LOCATED OUTDOORS. TAMPER RESISTANT, UNLESS NOT REQUIRED BY CODE.
A-1,3,5	CONDUIT AND CONDUCTORS EXTENDED TO PANELBOARD A, CIRCUITS 1, 3, AND 5. CROSS LINES INDICATE #12 AWG PHASE AND NEUTRAL CONDUCTORS WHERE MORE THAN TWO. SINGLE CIRCUIT BRANCH CIRCUIT WIRING RUNS SHOWN WITHOUT CROSS LINES SHALL BE PROVIDED WITH 2#12, 1#12G. EACH 20 AMPERE BRANCH CIRCUIT SHALL BE PROVIDED WITH SEPARATE NEUTRAL CONDUCTOR. SHARING OF NEUTRAL CONDUCTORS SHALL NOT BE PERMITTED. PROVIDE EQUIPMENT GROUNDING CONDUCTOR IN EACH CONDUIT RUN.
	CONDUIT IN THE FLOOR CONSTRUCTION OR UNDERGROUND SHOWN TURNING UP.
	CONDUIT IN THE WALL OR CEILING CONSTRUCTION SHOWN TURNING DOWN.
J	JUNCTION BOX, SIZE AND USE AS REQUIRED; COVERPLATE SHALL OVERLAP THE BOX EDGE BY 1/2" WHERE RECESSED IN WALL WITH CONCEALED WIRING.
F	FUSED DISCONNECT SWITCH, HEAVY DUTY "HP" RATED, PROVIDE NEMA 3R ENCLOSURE OUTDOORS.
FL	WALL MOUNTED FIRE ALARM COMBINATION SPEAKER/STROBE UNIT, CANDELA AND DBA RATING AS NOTED ON DRAWINGS. PROVIDE BACKBOX SUCH THAT BOTTOM OF STROBE LENS IS 81" ABOVE FINISHED FLOOR, COORDINATE BACKBOX TYPE AND EXACT MOUNTING HEIGHT WITH FIRE ALARM EQUIPMENT SUPPLIER. "WG" BY HORN/STROBE INDICATES CONTRACTOR TO PROVIDE WIRE GUARD.
DD	FIRE ALARM DUCT SMOKE DETECTOR, FURNISHED BY ELECTRICAL, INSTALLED DUCTWORK BY MECHANICAL, CONNECTED TO FIRE ALARM SYSTEM BY ELECTRICAL, CONNECT TO SHUT UNIT DOWN UPON ALARM. FURNISH AND INSTALL "LED" REMOTE STATUS INDICATOR, FIELD VERIFY LOCATION.
C	DATA/VOICE OUTLET, PROVIDE 4 11/16" SQUARE BOX WITH SINGLE-GANG DEVICE RING AND BLANK COVERPLATE. EXTEND EMPTY 1" CONDUIT FROM OUTLET BOX TO POINT ABOVE ACCESSIBLE LAY-IN CEILING AND TERMINATE WITH BUSHING. LOCATE OUTLET BOX 3" ABOVE BACKSPLASH AT WORK COUNTERS AND +18" AFF ELSEWHERE UNLESS NOTED TO A DIFFERENT HEIGHT ON DRAWINGS. "W" BY DEVICE INDICATES DEVICE TO BE DEDICATED FOR WIRELESS ACCESS POINT USE.
VS	LIGHTING CONTROL WALL MOUNTED VACANCY SENSOR, HARD WIRED. SEE DETAILS AT LEFT THIS DRAWING.
WS1 W	LIGHTING CONTROL WALL MOUNTED TWO-BUTTON SWITCH, WIRELESS. SEE DETAILS AT LEFT THIS DRAWING.
WLC W	LIGHTING WIRELESS CONTROLLER, 0-10V DIMMING. SEE DETAILS AT LEFT THIS DRAWING.
CVS W	LIGHTING WIRELESS CEILING MOUNTED VACANCY SENSOR. SEE DETAILS AT LEFT THIS DRAWING.

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MUSIC ROOM ADDITION FOR
OUR LADY OF FATIMA
858 LOUISVILLE RD
ALCOA, TN

LEGEND, SCHEDULE, DETAILS

DATE: 03 DEC 2021
PROJECT NO.: 21074
PROJECT MGR.: G. SLACK

E2.1

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