



P.O. BOX 1026  
CROSSVILLE, TN 38557  
PH. 931-484-7541  
www.uplanddesigngroup.com

# SWEETWATER HIGH SCHOOL FLOOR STRUCTURE

LOCATION: 414 S HIGH ST, SWEETWATER, TN 37874

## CODE REVIEW DATA

EXISTING CONSTRUCTION TYPE: TYPE IIB, UNPROTECTED, UNRAISED  
OCCUPANCY TYPE: IBC 2012 - GROUP F  
BUILDING AREA: EXISTING 1,208 SF - NO NEW SQUARE FOOTAGE BEING ADDED BY THIS RENOVATION  
ALLOWABLE NUMBER OF STORES: 1  
NUMBER OF STORES: 1  
ACTUAL HEIGHT: EXISTING

## REGULATORY REQUIREMENTS

LISTED BELOW ARE THE REGULATORY REQUIREMENTS THAT APPLY TO THIS PROJECT, REFER TO SECTION 01 41 14 REGULATORY REQUIREMENTS. THIS LIST IS PROVIDED AS A CONVENIENCE TO THE CONTRACTOR AND IS NOT TO BE CONSIDERED ALL INCLUSIVE OF CODES AND REGULATIONS THAT MAY APPLY. THE CONTRACTOR SHALL COMPLY WITH ALL PERTINENT CODES, STANDARDS, REGULATIONS AND LAWS.

(A) INTERNATIONAL BUILDING CODE (IBC), 2012 EDITION, PUBLISHED BY THE INTERNATIONAL CODE COUNCIL (ICC), EXCEPT FOR:  
1. CHAPTER 11 ACCESSIBILITY; AND  
2. CHAPTER 34, SECTION 3411 ACCESSIBILITY FOR EXISTING BUILDINGS;

(B) THE INTERNATIONAL FUEL GAS CODE (IFGC), 2012 EDITION, PUBLISHED BY THE INTERNATIONAL CODE COUNCIL (ICC);

(C) THE INTERNATIONAL MECHANICAL CODE (IMC), 2012 EDITION, PUBLISHED BY THE INTERNATIONAL CODE COUNCIL (ICC);

(D) THE INTERNATIONAL PLUMBING CODE (IPC), 2012 EDITION, PUBLISHED BY THE INTERNATIONAL CODE COUNCIL (ICC);

(E) THE INTERNATIONAL PROPERTY MAINTENANCE CODE (IPMC), 2012 EDITION, PUBLISHED BY THE INTERNATIONAL CODE COUNCIL (ICC);

(F) THE INTERNATIONAL FIRE CODE (IFC), 2012 EDITION, PUBLISHED BY THE INTERNATIONAL CODE COUNCIL (ICC);

(G) THE INTERNATIONAL ENERGY CONSERVATION CODE (IECC), 2012 EDITION, PUBLISHED BY THE INTERNATIONAL CODE COUNCIL (ICC), EXCEPT THAT THE PROVISIONS OF THE INTERNATIONAL ENERGY CONSERVATION CODE, 2009 EDITION, SHALL APPLY TO THE FOLLOWING OCCUPANCY CLASSIFICATIONS AS DEFINED BY THE INTERNATIONAL BUILDING CODE (IBC), 2012 EDITION:  
1. MODERATE-HAZARD FACTORY INDUSTRIAL, GROUP F-1;  
2. LOW-HAZARD FACTORY INDUSTRIAL, GROUP F-2;  
3. MODERATE-HAZARD STORAGE, GROUP S-1; AND  
4. LOW-HAZARD STORAGE, GROUP S-2;

(H) THE INTERNATIONAL EXISTING BUILDING CODE (IEBC), 2012 EDITION, PUBLISHED BY THE INTERNATIONAL CODE COUNCIL (ICC);

(I) FOR STATE BUILDINGS, EDUCATIONAL OCCUPANCIES AND ANY OTHER OCCUPANCY REQUIRING AN INSPECTION BY THE STATE FIRE MARSHAL FOR INITIAL LICENSURE, NFPA 101 LIFE SAFETY CODE, 2012 EDITION, PUBLISHED BY THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA);

(J) NO PROVISION OF THE PRECEDING CITED PUBLICATIONS SHALL BE ADOPTED THAT CONFLICTS WITH:  
1. THE INSTALLATION AND SERVICE STANDARDS OF PORTABLE FIRE EXTINGUISHERS AND FIXED FIRE EXTINGUISHER SYSTEMS IN TENN. COMP. R. & REGS. 0780-02-14-.02;  
2. THE STANDARDS FOR ENGAGING IN THE LIQUEFIED PETROLEUM GAS BUSINESS IN TENN. COMP. R. & REGS. 0780-02-17-.02.

(K) NATIONAL ELECTRIC CODE, NFPA 70, 2017 EDITION, PUBLISHED BY THE NATIONAL FIRE PROTECTION ASSOCIATION.

(L) TENNESSEE PUBLIC BUILDING ACCESSIBILITY ACT 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

## LIST OF ABBREVIATIONS

A.B.	ANCHOR BOLT	JST. BRG.	JOIST BEARING
AC.	ACOUSTIC	AL.O.	MASONRY OPENING
AC. MTL.	ACOUSTIC METAL	MAS.	MASONRY
A.F.F.	ABOVE FINISH FLOOR	MATL.	MATERIAL
ALUM.	ALUMINUM	MAX.	MAXIMUM
BD.	BOARD	MECH.	MECHANICAL
BLDG.	BUILDING	MFR.	MANUFACTURER
BLK.	BLOCK	MIN.	MINIMUM
BM.	BEAM	MTL.	METAL
BOTT.	BOTTOM	NOT IN CONTRACT	NOT IN CONTRACT
C.I.P.	CAST-IN-PLACE	MATL.	MATERIAL
CLG.	CEILING	NO.	NUMBER
CLG. OPNG.	CEILING OPENING	NTS	NOT TO SCALE
COL.	COLUMN	O.C.	ON CENTER
CONC.	CONCRETE	O.D.	OUTSIDE DIAMETER
CONT.	CONTINUOUS	OPP. HD.	OPPOSITE HAND
CONSTR.	CONSTRUCTION	P.T.	PRESSURE TREATED
CRS.	COURSE	P.C.	PRE-CAST
DR.	DOOR	PLAM.	PLASTIC LAMINATE
DS.	DOWNSPOLT	PLYWD.	PLYWOOD
DWG.	DRAWING	RD.	ROAD
EA.	EACH	REINFD.	REINFORCED
ELECT.	ELECTRICAL	REINFC.	REINFORCING
EQ.	EQUAL	REQD.	REQUIRED
E.W.	EACH WAY	RM.	ROOM
E.W.C.	ELECTRIC WATER COOLER	S.B.	SPLASH BLOCK
EXH.	EXHAUST	SCHED.	SCHEDULE
EXIST.	EXISTING	SHT.	SHEET
EXP. JNT.	EXPANSION JOINT	SIM.	SIMILAR
EXP. MTL.	EXPANDED METAL	SP.	SPACE
EXT.	EXTERIOR	STL.	STEEL
F.D.	FLOOR DRAIN	STOR.	STORAGE
F.F.	FINISH FLOOR	STRUCT.	STRUCTURAL
F.E.	FIRE EXTINGUISHER	T.O.M.	TOP OF MASONRY
FEC.	FIRE EXTINGUISHER CABINET	T.O.S.	TOP OF STEEL
FIN. SCHED.	FINISH SCHEDULE	THK.	THICKNESS
FIN. FLR.	FINISH FLOOR	TRS.	TRUSS
F.F.E.	FINISH FLOOR ELEVATION	TYP.	TYPICAL
FT.	FOOT	U.N.O.	UNLESS NOTED OTHERWISE
FTG.	FOOTING	VERT.	VERTICAL
FDN.	FOUNDATION	VTR.	VENT-THRU-ROOF
GA.	GAGE	W/O.	WITHOUT
GA.V.	GALVANIZED	WO.	WOOD
GR.	GRADE	WDW.	WINDOW
GYP. BD.	GYPSPUM BD.	WWW.	WOVEN WIRE MESH
HC.	HANDICAP		
H.M.	HOLLOW METAL		
HGT.	HEIGHT		
HORIZ.	HORIZONTAL		
INSUL.	INSULATION		
INT.	INTERIOR		
JAN. CLO.	JANITOR CLOSET		
JNT.	JNT.		

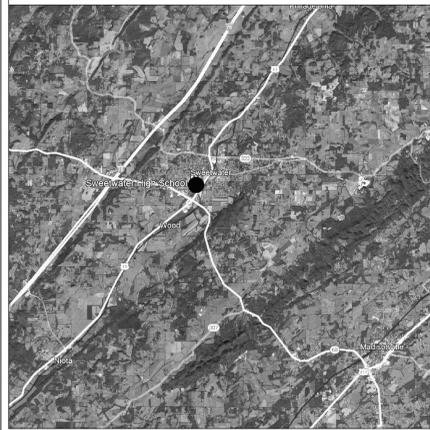
## SUMMARY OF WORK

THIS PROJECT IS ADDING STRUCTURAL REINFORCEMENTS TO THE LOWER AND UPPER LEVEL FLOORS OF THE ENTRY VESTIBULE, AND CLASSROOM 224 AND 228. ALSO, RELOCATION OF HVAC TRUNKS AND SPRINKLER SYSTEMS WHERE REQUIRED.

## INDEX TO DRAWINGS

COVER SHEET  
ARCHITECTURAL  
A1.1 FLOOR PLANS  
STRUCTURAL  
S1.1 FOUNDATION & FLOOR FRAMING PLANS  
S2.1 FOUNDATION & FLOOR FRAMING DETAILS  
S3.1 FOUNDATION & FLOOR FRAMING DETAILS

## VICINITY MAP



## LOCATION MAP

SWEETWATER HIGH SCHOOL  
414 S HIGH ST.  
SWEETWATER, TN 37874

## MATERIAL HATCHING LEGEND

	EARTH
	CRUSHED STONE
	CONCRETE (SECTION)
	CONCRETE BLOCK (PLAN AND SECTION)
	CONCRETE (PLAN)
	BRICK (SECTION)
	WOOD-FINISHED
	WOOD-ROUGH
	RIGID INSULATION
	BATT INSULATION
	STEEL
	GYPSPUM BOARD

## DRAWING SYMBOL LEGEND

	WALL SECTION, DETAIL		KEYNOTE
	ENLARGED DETAIL, PLAN DETAIL ENLARGED PLAN		WINDOW TYPE
	INTERIOR ELEVATION		ACCESSORIES
	DOOR NUMBER		GLASS TYPE
	SPACE NUMBER		

## REVISION PER CHANGE ORDERS AND SUPPLEMENTAL INSTRUCTIONS

TYPE (CO / SI)	DATE	DESCRIPTION OF WORK	TYPE (CO / SI)	DATE	DESCRIPTION OF WORK

## RESPONDING FIRE DEPARTMENT

JOHN ANDERSON, CHIEF  
FIRE & RESCUE  
CITY OF SWEETWATER TENNESSEE  
P.O. BOX 267  
SWEETWATER, TN 37874  
(423) 337-6724

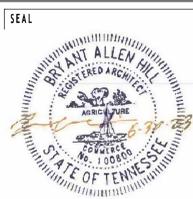
## LOCAL BUILDING INSPECTOR

ROB BURRIS, CODES ENFORCEMENT OFFICER  
PLANNING DEVELOPMENT AND TOURISM  
CITY OF SWEETWATER TENNESSEE  
P.O. BOX 267  
SWEETWATER, TN 37874  
(423) 337-9676

## DESIGN TEAM

ARCHITECT  
UPLAND DESIGN GROUP, INC.  
P.O. BOX 1026  
CROSSVILLE, TN 38557  
PHONE: 931-484-7541  
FAX: 931-484-2351

STRUCTURAL ENGINEER  
ENGINEERING SUPPORT SERVICES  
P.O. BOX 4034  
ONEIDA, TN 37841  
PHONE: 423-663-7400



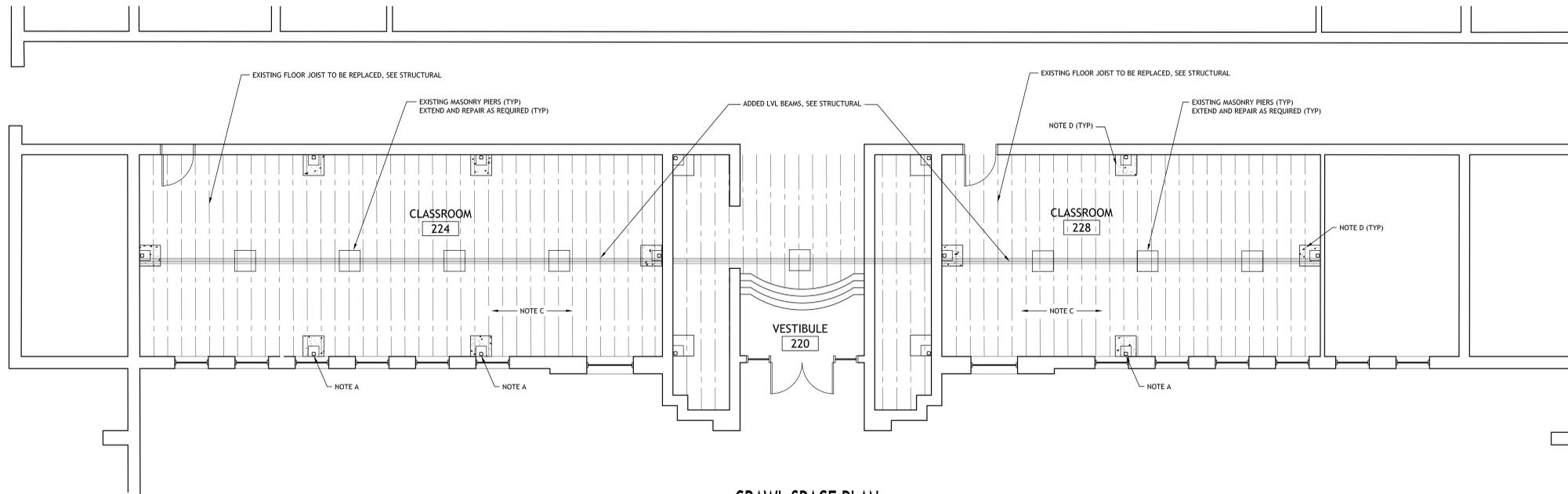
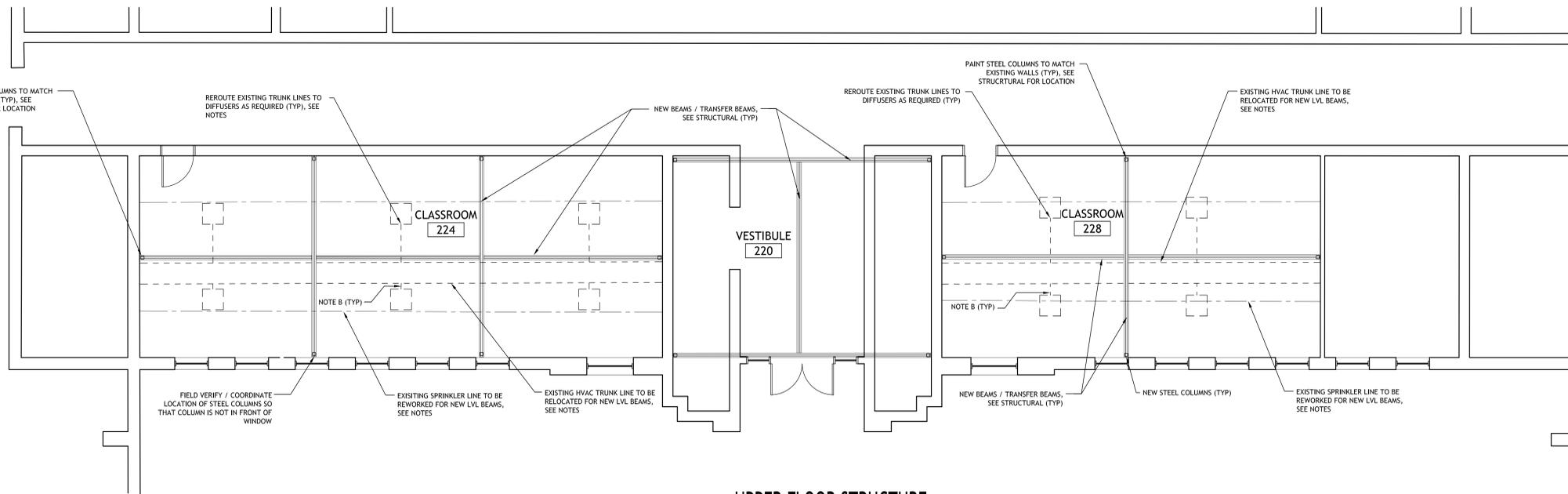
SEAL

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REVISIONS


JOB NO. 2340  
ISSUE DATE 06/30/23  
SHEET TITLE COVER SHEET  
DRAWN ASB  
SHEET NO. CVR  
REVIEW BAH

Sweetwater High School Structural Repair  
Sweetwater, Monroe County, Tennessee  
OWNER Monroe County Schools  
LOCATION Sweetwater, Tennessee

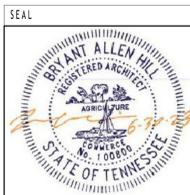
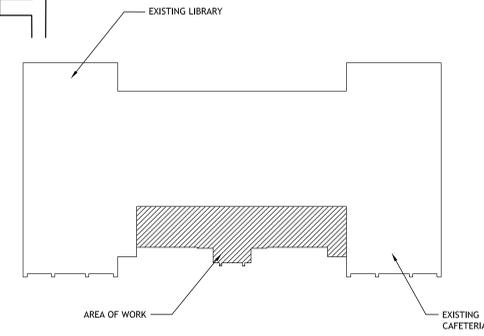


**GENERAL NOTES**

- PROJECT SCOPE IS TO REPLACE EXISTING LOWER FLOOR WOOD FLOOR STRUCTURE OVER CRAWL SPACE, AND REINFORCE UPPER FLOOR WITH BEAM / TRANSFER BEAMS SUPPORTED BY NEW TS COLUMNS.
- THIS WORK IS LIMITED TO THE FRONT PORTION OF THE ORIGINAL BUILDING, IN THE VICINITY OF THE TOWER.
- WORK IS TO BE COMPLETED IN TWO PHASES:
  - PHASE ONE INCLUDES WORK IN FLOOR / CRAWL SPACE OF CLASSROOM 228, AND THE FLOOR STRUCTURE OF THE CLASSROOM ABOVE. AS NO DEMOLITION WORK IS TO BE ANTICIPATED IN THE CLASSROOM ABOVE, IT IS ANTICIPATED THAT THE UPPER FLOOR CAN CONTINUE IN USE FOR THE DURATION OF CONSTRUCTION.
  - PHASE TWO INCLUDES WORK IN FLOOR / CRAWL SPACE OF CLASSROOM 224, AND THE FLOOR STRUCTURE OF THE CLASSROOM ABOVE. AS NO DEMOLITION WORK IS TO BE ANTICIPATED IN THE CLASSROOM ABOVE, IT IS ANTICIPATED THAT THE UPPER FLOOR CAN CONTINUE IN USE FOR THE DURATION OF CONSTRUCTION.
  - THE AREA OF VESTIBULE 220 CAN BE INCLUDED IN WORK OF PHASE 1, PHASE 2, OR AS A SEPARATE PHASE, AT CONTRACTORS OPINION.
- IN CLASSROOMS 224 AND 228, CONTRACTOR IS TO:
  - COMPLETELY REMOVE EXISTING FLOORING, SUBFLOORING, AND FLOOR STRUCTURE
  - INSTALL COLUMNS AND COLUMN FOOTINGS AS DETAILED ON DRAWINGS. PAINT MATERIALS SUCH AS COLUMNS THAT WILL BE EXPOSED IN THE FINISHED WORK.
  - REPLACE FLOOR STRUCTURE, SUBFLOORING, FINISH FLOORING, AND WALL BASE WITH NEW.
- AT THE UPPER FLOOR STRUCTURE ABOVE VESTIBULE 220, CLASSROOM 224, AND CONTRACTOR IS TO:
  - REMOVE CEILING TILE AND DISCARD
  - AT CONTRACTORS OPTION, CEILING GRID MAY REMAIN AND BE REWORKED AS REQUIRED TO ACCOMPLISH OTHER WORK, OR BE REPLACED.
  - INSTALL TEMPORARY JACKS TO REMOVE AS MUCH DEFLECTION OF THE EXISTING FLOOR STRUCTURE AS POSSIBLE.
  - INSTALL BEAMS ONTO PREVIOUSLY INSTALLED COLUMNS
  - INSTALL NEW CEILING TILE INTO NEW OR REPAIRED CEILING GRID
- CONTRACTOR IS RESPONSIBLE FOR MODIFICATION OF EXISTING DUCTWORK, SPRINKLER SYSTEM, AND ELECTRICAL / LOW VOLTAGE SYSTEMS AS REQUIRED TO ACCOMPLISH THIS WORK. MINOR RELOCATION OF LIGHTING AND DIFFUSERS IS ACCEPTABLE IF REQUIRED TO COORDINATE WITH THE NEW STRUCTURAL WORK.
- CONTRACTOR IS TO PAINT ALL NEW MATERIALS EXPOSED TO VIEW IN THE FINISHED WORK. AT COMPLETION OF OTHER WORK, CONTRACTOR IS TO PAINT SPACES 220, 224, AND 228.
- NO WORK IS TO BE DONE DURING PERIODS OF STANDARDIZED TESTING.
- ARCHITECT HAS IDENTIFIED SOME MAJOR FEATURES THAT WILL REQUIRE MODIFICATION / RELOCATION TO ACCOMMODATE THE NEW STRUCTURAL WORK. BUT CONTRACTOR IS RESPONSIBLE FOR DETERMINING FULL EXTENT OF COLLATERAL WORK REQUIRED TO ACCOMPLISH THE NEW WORK CALLED FOR BY THESE DOCUMENTS.
- ADJUST PLACEMENT OF NEW WORK TO BEST FIT EXISTING BUILDING CONDITIONS.

**SPECIFIC NOTES**

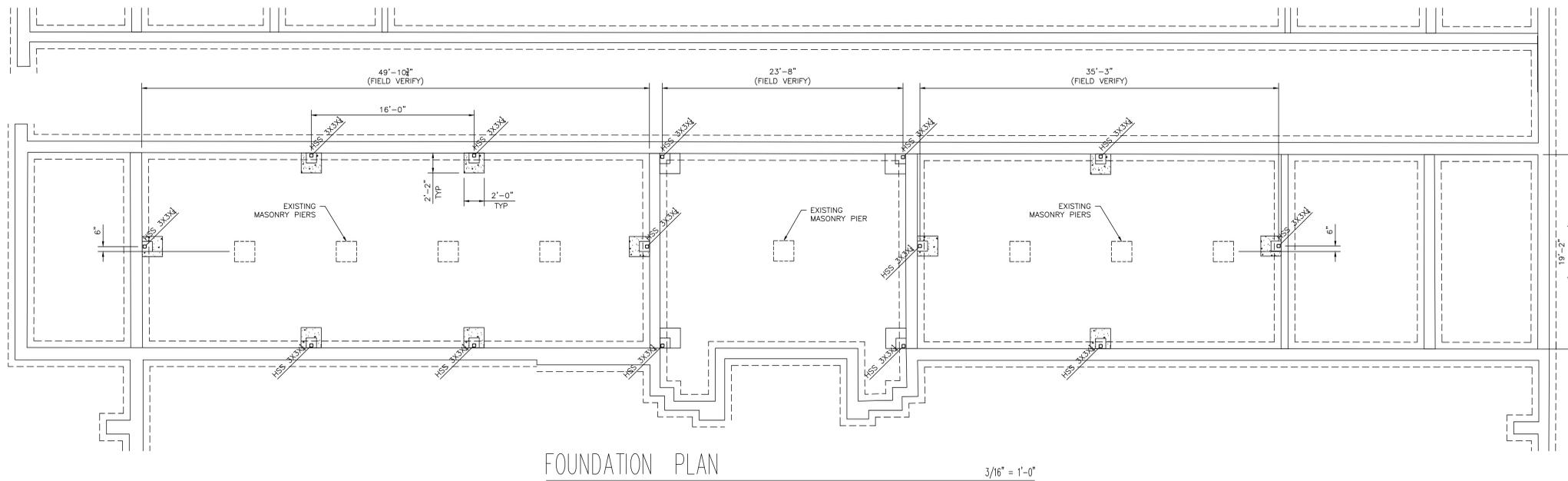
- SPECIFIC NOTES
- COORDINATE EXACT LOCATION OF COLUMNS WITH WINDOW PLACEMENT
  - CHANGE LOCATION OF SUPPLY DUCT TAKE-OFF AS REQUIRED FOR INSTALLATION OF NEW BEAMS.
  - INSTALL VAPOR BARRIER (SEE SECTION 072600) AND SEAL VAPOR / AIR TIGHT.
  - COORDINATE PLACEMENT OF NEW COLUMN FOOTINGS / PIERS (SEE STRUCTURAL)



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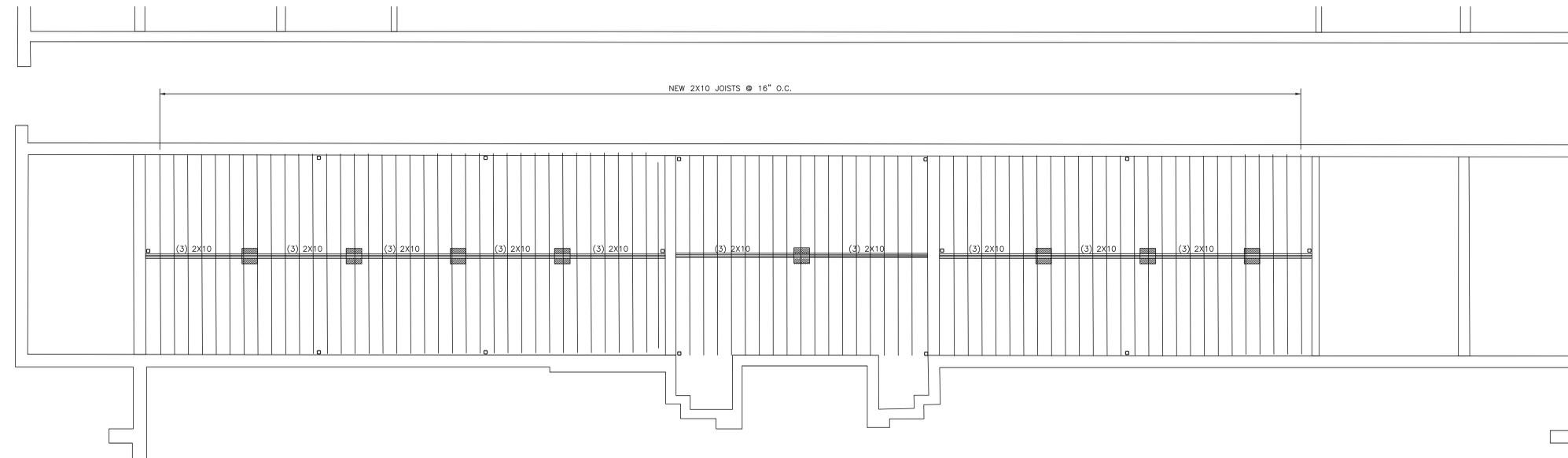
**REVISIONS**


JOB NO.	2340
ISSUE DATE	06/30/23
SHEET TITLE	FLOOR PLANS
DRAWN	ASB
REVIEW	BAH
SHEET NO.	A1.1



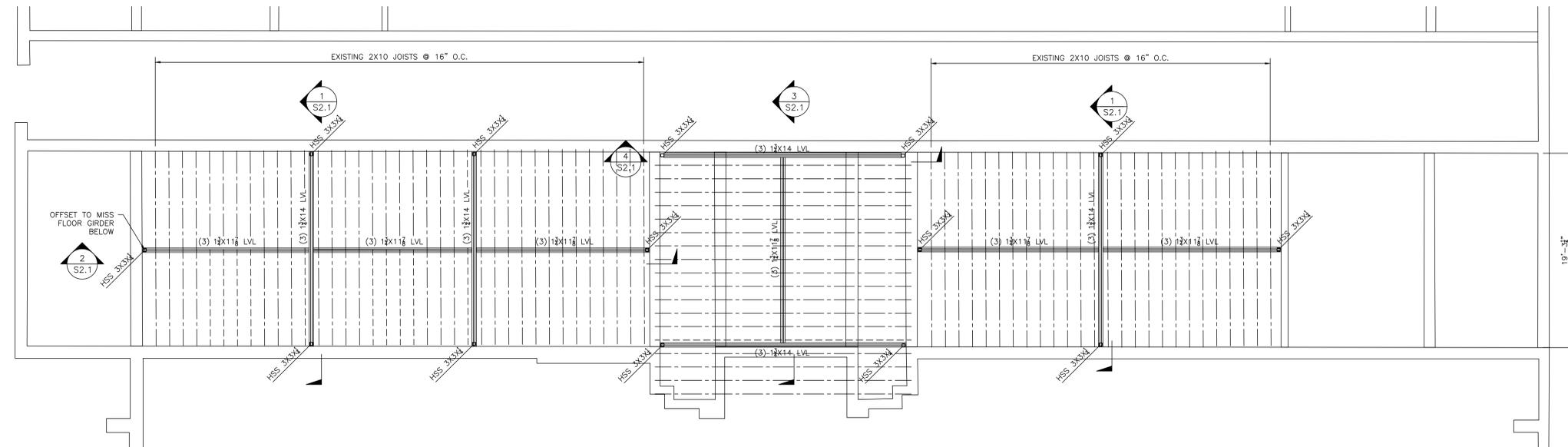
FOUNDATION PLAN

3/16" = 1'-0"



FLOOR REPLACEMENT PLAN

3/16" = 1'-0"



FLOOR REINFORCEMENT PLAN

3/16" = 1'-0"

STRUCTURAL NOTES

- A. GENERAL**
1. THE STRUCTURE IS DESIGNATED IN ACCORDANCE WITH THE 2012 INTERNATIONAL BUILDING CODE.
  2. THE DESIGN LOADS ARE AS FOLLOWS:  
 FLOOR DEAD LOAD .....10 PSF  
 FLOOR LIVE LOAD .....40 PSF
- B. FOUNDATIONS**
1. BOTTOM OF FOOTINGS TO BEAR ON SOIL CAPABLE OF SAFELY SUPPORTING 2,500 PSF.
  2. BOTTOM OF FOOTINGS SHALL BEAR ON UNDISTURBED VIRGIN SOIL, OR CONTROLLED COMPACTED FILL CAPABLE OF SAFELY SUPPORTING THE SPECIFIED ALLOWABLE SOIL BEARING PRESSURE.
- C. CONCRETE**
1. CONCRETE IN THE FOLLOWING AREAS SHALL HAVE NATURAL AND FINE AGGREGATE AND NORMAL WEIGHT COARSE AGGREGATE CONFORMING TO ASTM C33, TYPE 1/1 PORTLAND CEMENT CONFORMING TO ASTM C150, AND SHALL HAVE THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH (f'<sub>c</sub>) AT 28 DAYS:  
 FOOTINGS.....3000 PSI
  2. ALL CONCRETE SHALL BE MADE IN ACCORDANCE WITH APPROVED DESIGN MIXES AS REQUIRED FOR THE JOB, SEE SPECIFICATIONS.
  3. CONCRETE SLUMP SHALL BE 3 - 5 INCHES. CONCRETE THAT ARRIVES AT THE JOBSITE WITH A SLUMP GREATER THAN 5 3/4" SHALL BE REJECTED. CONCRETE WITH A SLUMP LESS THAN 2 3/4" SHALL HAVE AN APPROVED SUPER-PLASTICIZER ADDED SUCH THAT THE MINIMUM 2 3/4" SLUMP MAY BE ACHIEVED. THE ADDITION OF WATER AT THE JOBSITE FOR THE PURPOSE OF INCREASING SLUMP IS PROHIBITED IF THE DESIGN W/C RATIO WILL BE EXCEEDED.
  4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING ANCHOR BOLTS, CLIPS, INSERTS, CONNECTION PLATES, SLEEVES, SLOTS, AND OTHER REQUIRED ITEMS IN ACCORDANCE WITH THE CONTRACT DRAWINGS, AND IN COOPERATION WITH OTHER TRADES PRIOR TO PLACING THE CONCRETE.
- D. CONCRETE REINFORCEMENT**
1. CONCRETE REINFORCEMENT BARS SHALL CONFORM TO ASTM A615, GRADE 60. REINFORCEMENT DESIGNATED AS CONTINUOUS SHALL LAP 36 BAR DIAMETERS AT SPICES, UNLESS NOTED OTHERWISE.
  2. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. FABRIC SHALL BE FURNISHED IN FLAT SHEETS, LAP ONE FULL MESH.
  3. ALL CONCRETE REINFORCEMENT BARS AND WWF SHALL BE ACCURATELY AND SECURELY TIED AND ANCHORED IN PLACE TO PREVENT DISLOCATION DURING CONCRETE PLACEMENT OPERATION.
- E. PLYWOOD**
1. PLYWOOD PANELS SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AMERICAN PLYWOOD ASSOCIATION (APA) AND THE LATEST EDITION OF THE PLYWOOD DESIGN SPECIFICATION (AND SUPPLEMENTS).
  2. PLYWOOD PANELS SHALL BE STAMPED WITH THE TRADEMARK OF THE APA AND SHALL MEET THE REQUIREMENTS OF THE LATEST EDITION OF THE U.S. PRODUCT STANDARD PS 1 FOR THE CONSTRUCTION AND INDUSTRIAL PLYWOOD (OR THE APA PRP-108 PERFORMANCE STANDARDS AND POLICIES FOR STRUCTURAL USE PANELS).
- J. STRUCTURAL LUMBER**
1. STRUCTURAL LUMBER SHALL CONFORM TO THE MOST CURRENT APPLICABLE SPECIFICATIONS OF THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION.
  2. ALL 2X STRUCTURAL LUMBER SHALL BE A MINIMUM OF NO. 2 SOUTHERN YELLOW PINE.
  3. ALL WOOD TRUSS MEMEBERS SHALL BE FABRICATED FROM KILN DRIED SOUTHERN PINE STRESS GRADE LUMBER OR EQUAL.
  4. METAL CONNECTORS USED TO SUPPORT PRESSURE-TREATED WOOD MEMBERS SHALL HAVE A ZINC COATING CONFORMING TO THE REQUIREMENTS OF A G185 COATING (1.85 OZ./FT<sup>2</sup>). THIS CONFORMS TO THE SIMPSON TYPE ZMAX FINISH. ALL FASTENERS USED WITH THESE CONNECTORS SHALL CONFORM TO THE EQUIVALENT G185 COATING.
  5. ALTERNATE CONNECTION DETAILS MAY BE USED IF SUCH DETAILS ARE SUBMITTED TO THE ENGINEER AND ARCHITECT FOR REVIEW AND APPROVAL. HOWEVER, THE ENGINEER SHALL BE THE SOLE JUDGE OF ACCEPTANCE AND THE CONTRACTOR'S BID SHALL ANTICIPATE THE USE OF THOSE SPECIFIED DETAILS SHOWN ON THE DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF SUCH ALTERNATIVE DETAILS THAT HE PROPOSES.
  6. ENGINEERED STRUCTURAL WOOD PRODUCTS (I.E. PSL, LVL) SHALL HAVE THE STRUCTURAL PROPERTIES:  

	PSL	LVL
• FLEXURAL STRESS (FB)	2,900 PSI	2,600 PSI
• MODULAR OF ELASTICITY(E)	2,000 PSI	1,900 PSI
• FC PERPENDICULAR	650 PSI	750 PSI
• FV	200 PSI	285 PSI
  9. ALL CONNECTIONS SHALL COMPLY WITH 2012 IBC 2018 FASTENING SCHEDULE. SEE DRAWINGS. DETAILS IN DRAWINGS WITH MORE EXTENSIVE CONNECTIONS SHALL GOVERN OVER THOSE SHOWN IN TABLE.
  10. FOR ALL WOOD MEMBERS THAT FRAME INTO OTHER MEMBERS AND WHERE NOT SPECIFICALLY DETAILED OR SPECIFIED IN THE DRAWINGS, USE AN APPROPRIATE SIMPSON STRONG TIE HANGER.
- G. STRUCTURAL STEEL**
1. STRUCTURAL STEEL WIDE-FLANGE AND S SHAPES SHALL CONFORM TO ASTM A992, MINIMUM STRENGTH OF 50 KSI, UNLESS OTHERWISE NOTED.
  2. STRUCTURAL STEEL ANGLES, CHANNELS, AND PLATES SHALL CONFORM TO ASTM A36, GRADE 36 UNLESS OTHERWISE NOTED.
  3. STRUCTURAL STEEL TUBING SHALL CONFORM TO ASTM A500, GRADE B, F<sub>y</sub> = 42 KSI.
  3. STRUCTURAL STEEL TUBING SHALL CONFORM TO ASTM A500, GRADE B, F<sub>y</sub> = 42 KSI.
  4. STRUCTURAL STEEL PIPE SHALL CONFORM TO ASTM A53, TYPE 3 OR S, GRADE B, F<sub>y</sub> = 35 KSI.
  5. BOLTS FOR CONNECTING STRUCTURAL STEEL SHALL BE 3/4" DIAMETER, CONFORMING TO ASTM A325-N, U.O.N.
  6. ANCHOR BOLTS SHALL BE HEADED AND CONFORM TO ASTM F1554 GRADE 36.
  8. FABRICATION AND ERECTION OF ALL STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE LATEST AISC SPECIFICATIONS.
  9. ANY CONNECTION NOT DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED AND DETAILED BY THE STRUCTURAL STEEL FABRICATOR. THE CONNECTIONS FOR HOLLOW STRUCTURAL SECTIONS SHALL BE DESIGNED IN ACCORDANCE WITH THE AISC HOLLOW STRUCTURAL SECTIONS CONNECTION MANUAL, LATEST EDITION.
  10. WELDING SHALL CONFORM TO THE AMERICAN WELDING SOCIETY STANDARD D1.1. ELECTRODES FOR SHOP AND FIELD WELDS SHALL CONFORM TO THE AWS A5.1 OR AWS 5.5, CLASS E70XX, LOW HYDROGEN, UNLESS NOTED OTHERWISE. ONLY WELDERS WHO HAVE BEEN QUALIFIED BY TESTS AS PRESCRIBED IN THE REFERENCE STANDARDS TO PERFORM THIS TYPE OF WORK REQUIRED SHALL MAKE THE WELDS.
  11. SPLICING OF STRUCTURAL STEEL MEMEBERS WHERE NOT DETAILED ON THE CONTRACT DOCUMENTS IS PROHIBITED WITHOUT THE PRIOR APPROVAL OF THE STRUCTURAL ENGINEER AS TO THE LOCATION, TYPE OF SPLICE, AND CONNECTION TO BE MADE.
  12. INTERIOR STRUCTURAL STEEL SHALL RECEIVE A SHOP PRIMER AND FIELD TOP COAT OF PAINT PER PROJECT SPECIFICATIONS.

**Upland Design Group**  
 P.O. BOX 1026  
 CROSSVILLE, TN 38557  
 Ph. 931-484-7541  
 www.uplanddesigngroup.com

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**ENGINEERING SUPPORT SERVICES**  
 THE ROCK IS OUR SUPPORT

P.O. BOX 18163      P.O. BOX 4834  
 ASHEVILLE, NC 28814      ONEDA, TN 37841  
 Ph. 828-484-9979      Ph. 423-663-7400

LOCATION  
**Sweetwater, Tennessee**

OWNER  
**Monroe County Schools**

**Sweetwater High School Structural Repair**  
**Sweetwater, Monroe County, Tennessee**

SEAL

KENNETH D. M...  
 REGISTERED PROFESSIONAL ENGINEER  
 STATE OF TENNESSEE  
 No. 1036

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REVISIONS

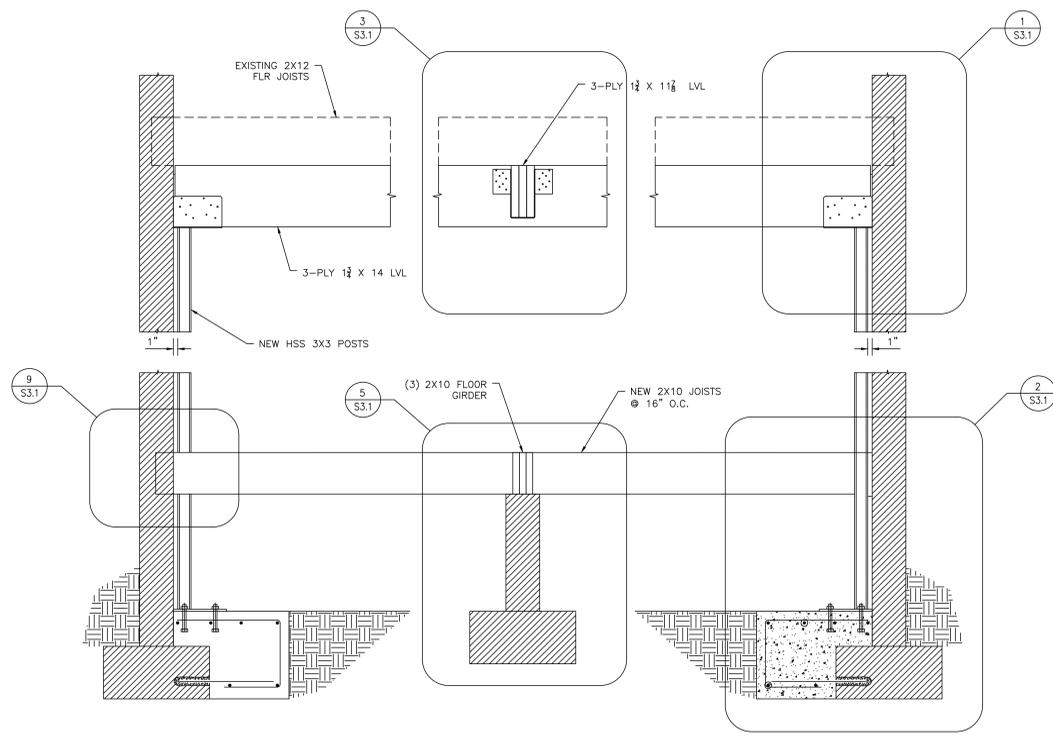

JOB NO. **2340**

ISSUE DATE **06/30/23**

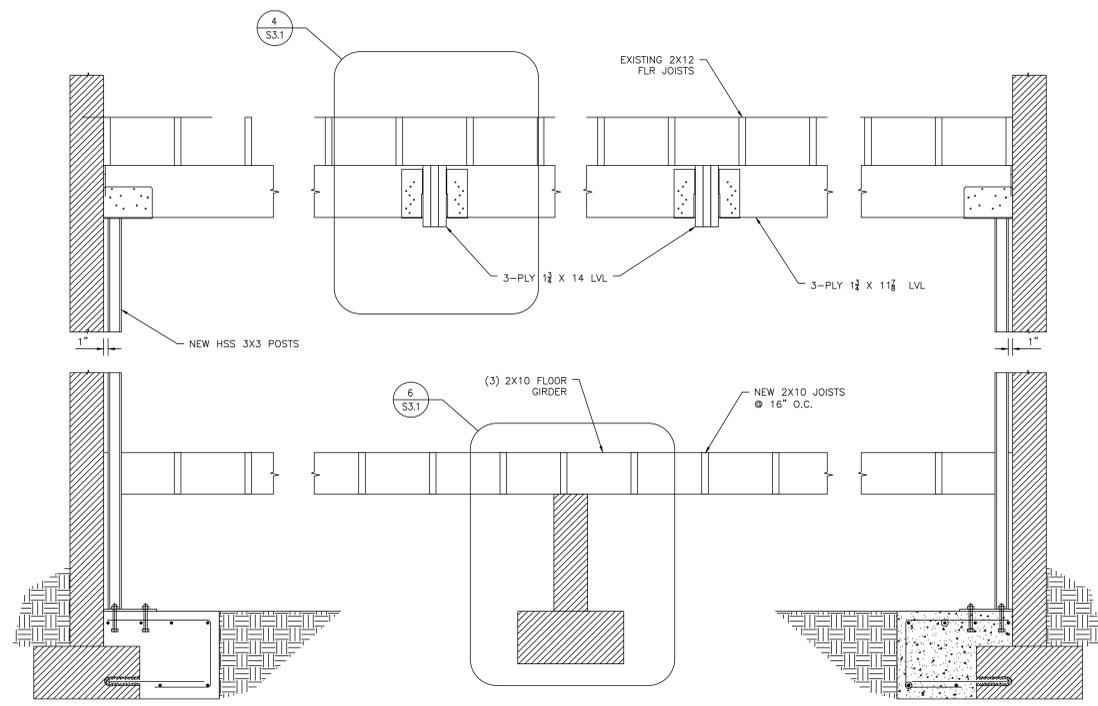
SHEET TITLE  
**FOUNDATION & FLOOR FRAMING PLANS**

DRAWN SHEET NO.  
**KDM S1.1**

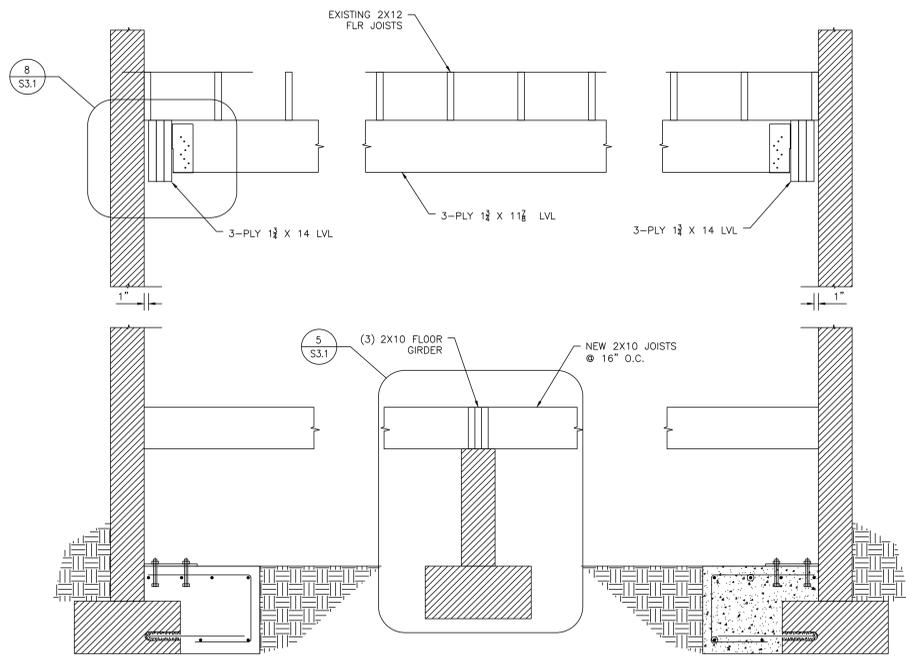
REVIEW  
**KDM**



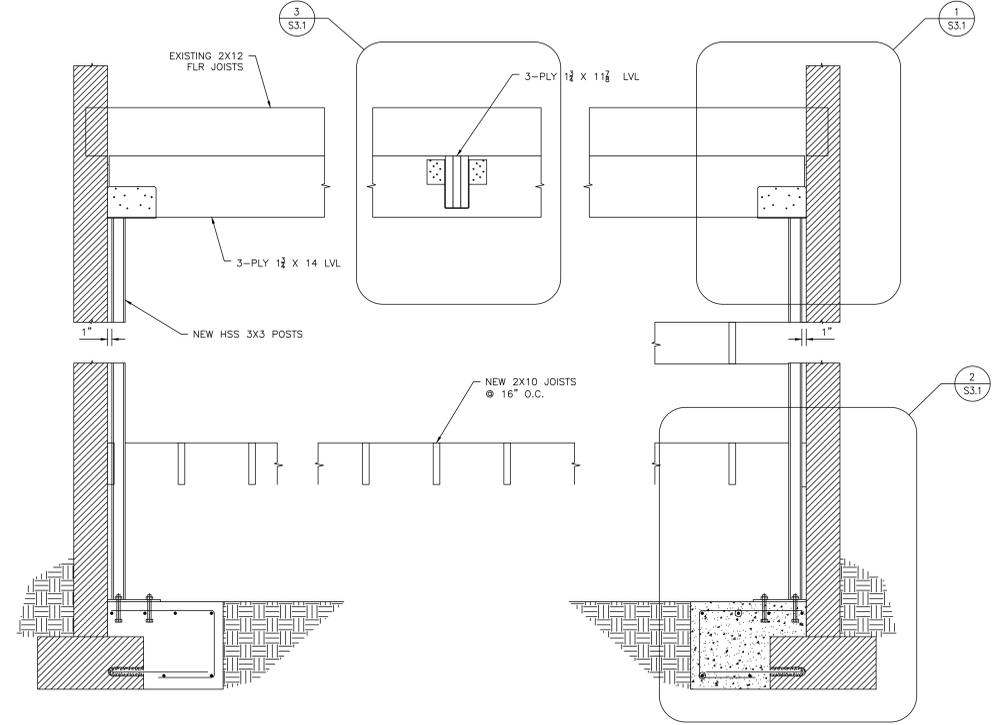
1 SECTION  
S2.1 SCALE: 3/4" = 1'-0"



2 SECTION  
S2.1 SCALE: 3/4" = 1'-0"



3 SECTION  
S2.1 SCALE: 3/4" = 1'-0"



4 SECTION  
S2.1 SCALE: 3/4" = 1'-0"

**Upland Design Group**  
 P.O. BOX 1026  
 CROSSVILLE, TN 38557  
 Ph. 931.484.7541  
 www.uplanddesigngroup.com

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 Ph. 828.484.9979 Ph. 423.663.7400

**Sweetwater High School Structural Repair**  
 Sweetwater, Monroe County, Tennessee

LOCATION  
Sweetwater, Tennessee

OWNER  
Monroe County Schools

SEAL

**KENNETH D. M...**  
 REGISTERED PROFESSIONAL ENGINEER  
 STATE OF TENNESSEE  
 LICENSE NO. 1036

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**REVISIONS**  
 REV1-REVISED ROOF FRAMING PLAN

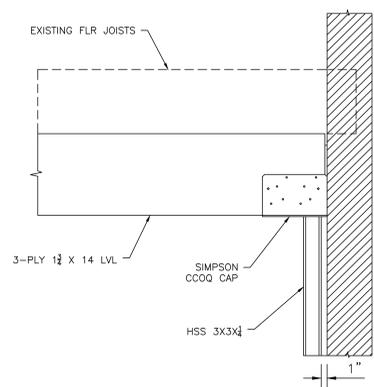
JOB NO. **2340**

ISSUE DATE **06/30/23**

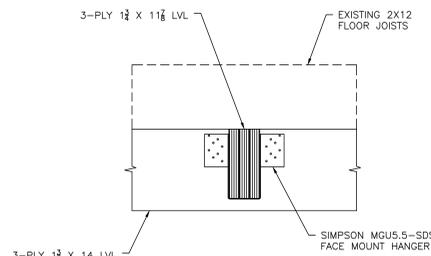
SHEET TITLE  
**FOUNDATION & FLOOR FRAMING DETAILS**

DRAWN SHEET NO.  
KDM **S2.1**

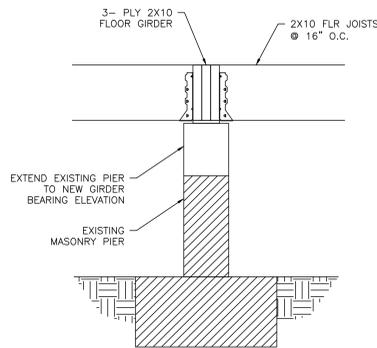
REVIEW  
KDM



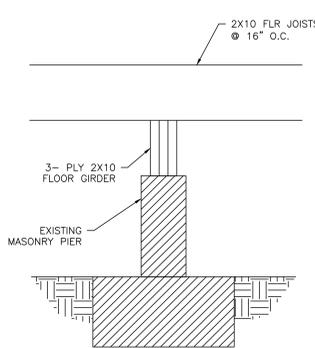
1 DETAIL  
S3.1 SCALE: 1" = 1'-0"



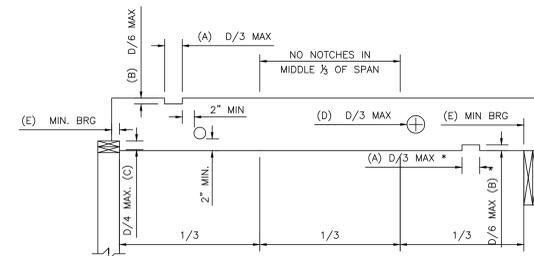
3 SECTION  
S3.1 SCALE: 1" = 1'-0"



5 SECTION  
S3.1 SCALE: 1" = 1'-0"



6 SECTION  
S3.1 SCALE: 1" = 1'-0"

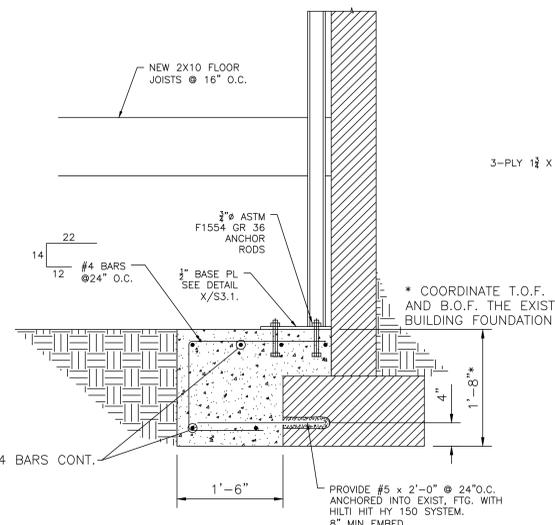


JOIST HOLES & NOTCHES

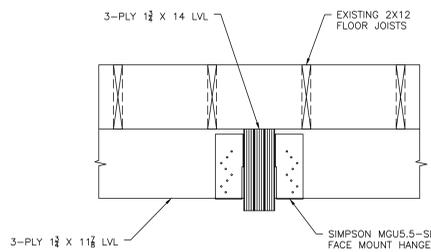
JOIST SIZE	(A) MAXIMUM NOTCH LENGTH	(B) MAXIMUM NOTCH DEPTH	(C) MAXIMUM END NOTCH DEPTH	(D) MAXIMUM HOLE DEPTH	(E) MINIMUM BEARING LENGTH
2X6	1-1/8"	3/8"	1-3/8"	1-1/8"	1-1/2" 3"
2X8	2-3/8"	1-3/8"	1-1/2"	2-3/8"	1-1/2" 3"
2X10	3-3/8"	1-1/2"	2-3/8"	3-1/8"	1-1/2" 3"
2X12	3-3/4"	1-1/2"	2-1/8"	3-3/4"	1-1/2" 3"

NOTE: 1. MINIMUM BEARING: 1-1/2" ON WOOD OR STEEL; 3" BEARING ON MASONRY.

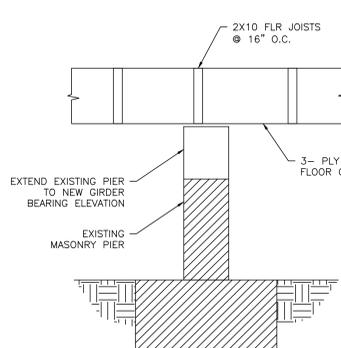
7 JOIST NOTCH DETAIL  
S3.1 SCALE: NTS



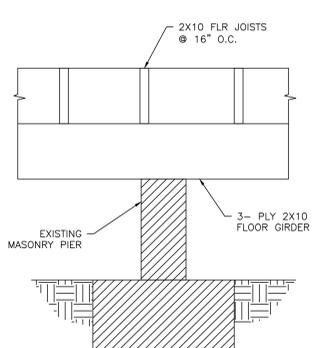
2 DETAIL  
S3.1 SCALE: 1" = 1'-0"



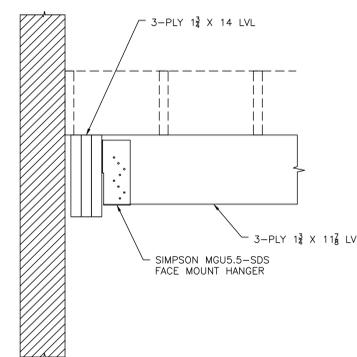
4 SECTION  
S3.1 SCALE: 1" = 1'-0"



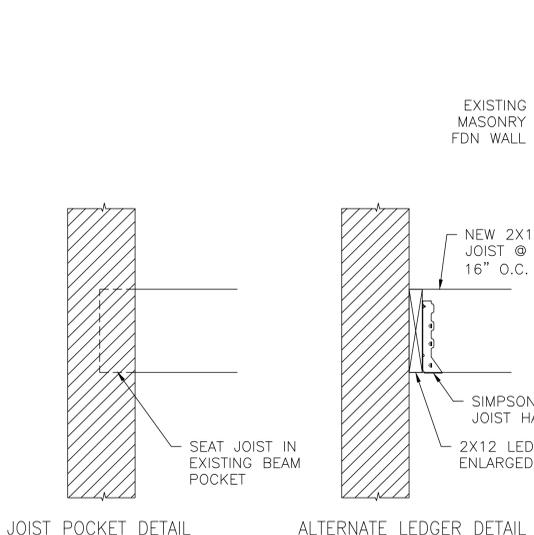
5 SECTION  
S3.1 SCALE: 1" = 1'-0"



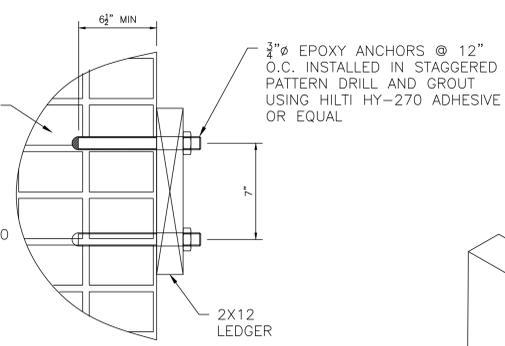
6 SECTION  
S3.1 SCALE: 1" = 1'-0"



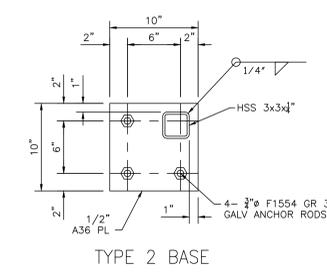
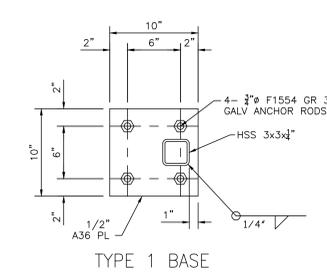
8 SECTION  
S3.1 SCALE: 1" = 1'-0"



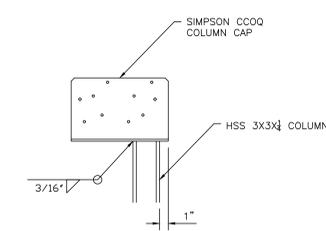
9 DETAIL  
S3.1 SCALE: 1 1/2" = 1'-0"



10 MULTI-PLY LVL DETAIL  
S3.1 SCALE: 1 1/2" = 1'-0"



11 HSS BASE PLATE DETAILS  
S3.1 SCALE: 1 1/2" = 1'-0"



12 HSS CAP DETAIL  
S3.1 SCALE: 1 1/2" = 1'-0"

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REVISIONS  
 REV1-REVISED ROOF FRAMING PLAN

JOB NO. **2340**

ISSUE DATE **06/30/23**

SHEET TITLE  
**FOUNDATION & FLOOR FRAMING DETAILS**

DRAWN SHEET NO.  
KDM

REVIEW  
KDM

**S3.1**