NEW ELEVATOR FOR
LOCUST FORK ELEMENTARY SCHOOL

BLOUNT COUNTY BOARD OF EDUCATION

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204 2ND AVENUE EAST
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ARCHITECT
- **LATHAN ASSOCIATES ARCHITECTS, P.C.**
300 CHASE PARK SOUTH, SUITE 200
HOOVER, ALABAMA 35244
205-988-9112
CONTACT: RYAN VERNON

ELECTRICAL ENGINEER
- **STEWART ENGINEERING**
P.O. BOX 2233
ANNISTON, ALABAMA 36202
256-237-0891

STRUCTURAL ENGINEER
- **STRUCTURAL DESIGN GROUP, INC.**
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BIRMINGHAM, AL 35226
205-824-5200

PLUMBING ENGINEER
- **WHORTON ENGINEERING, INC.**
P.O. BOX 5190
ANNISTON, ALABAMA 36205
256-820-9897

DRAWING INDEX - ELEVATOR PROJECT
(SET - 17 TOTAL SHEETS)

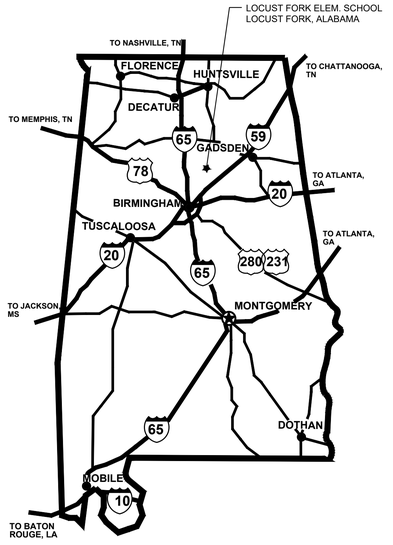
GENERAL DRAWINGS (2 SHEETS)
- T1 - TITLE AND INDEX
- LS1.0 - LIFE SAFETY PLAN

ARCHITECTURAL DRAWINGS (6 SHEETS)
- A1.1 - ARCHITECTURAL SITE PLAN
- A2.0 - DEMOLITION PLANS, ELEVATIONS AND PHOTOS
- A2.1 - FLOOR PLANS
- A3.1 - BUILDING ELEVATIONS AND BUILDING SECTIONS
- A3.2 - ELEVATOR SECTIONS
- A3.3 - ENLARGED DETAILS

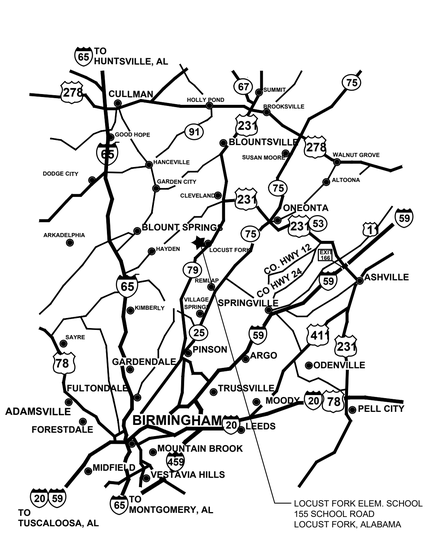
STRUCTURAL DRAWINGS (6 SHEETS)
- S1.0 - GENERAL NOTES
- S1.1 - GENERAL NOTES CONTINUED
- S1.2 - TYPICAL DETAILS
- S1.3 - TYPICAL DETAILS
- S2.1 - FOUNDATION UPPER FRAMING AND ROOF FRAMING PLAN
- S3.1 - SECTIONS AND DETAILS

PLUMBING DRAWINGS (1 SHEET)
- P1.1 - MAIN FLOOR PLUMBING PLAN

ELECTRICAL DRAWINGS (2 SHEETS)
- E1.1 - SCHEDULES, SYMBOLS, AND NOTES
- E2.1 - ELECTRICAL PLAN



AREA MAP
STATE OF ALABAMA



VICINITY MAP
BLOUNT COUNTY, ALABAMA

LATHAN ARCHITECTS

NEW ELEVATOR FOR
LOCUST FORK ELEMENTARY SCHOOL
155 School Road Locust Fork, AL 35097
BLOUNT COUNTY BOARD OF EDUCATION

STATE OF ALABAMA
No. 3365
RICK N. LATHAN
REGISTERED ARCHITECT

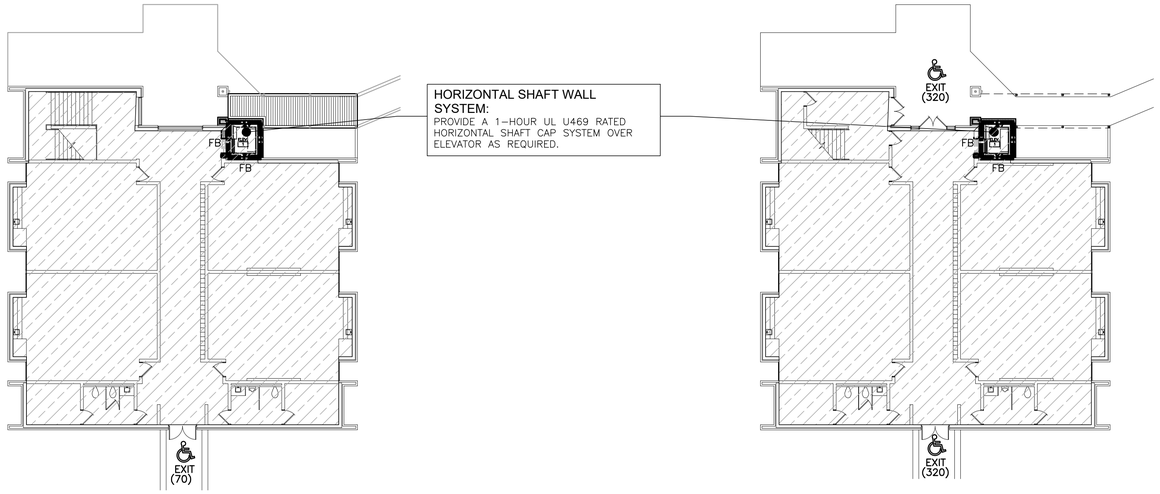
SHEET TITLE:
TITLE AND INDEX

PROJ. MGR.:	Ryan Vernon
DRAWN:	PPh
hdr	
DATE:	8-28-2024
REVISIONS	

JOB NO. 24-39

SHEET NO:
T1
1 OF 2

0 1" 2"



1 UPPER LEVEL LIFE SAFETY PLAN

1/16" = 1'-0"

2 MAIN LEVEL LIFE SAFETY PLAN

1/16" = 1'-0"

THE EGRESS CAPACITIES ARE UNCHANGED BY THE SCOPE OF THIS ADDITION

THE OCCUPANT LOAD IS UNCHANGED BY THE SCOPE OF THIS ADDITION

2021 INTERNATIONAL BUILDING CODE RESEARCH LOCUST FORK ELEMENTARY SCHOOL				
OCCUPANCY CLASSIFICATION:	GROUP E			
TYPE OF CONSTRUCTION :	TYPE IIB UNSPRINKLERED			
EXISTING MAIN LEVEL AREA	5,133 S.F.			
ADDITION AREA	73 S.F.			
EXISTING UPPER LEVEL AREA	5,133 S.F.			
TOTAL BUILDING AREA	10,339 S.F.			
TABLE 504.4 ALLOWABLE NUMBER OF STORIES:	ALLOWABLE STORIES: 3	ACTUAL STORIES: 2		
TABLE 506.2 ALLOWABLE AREA:	AREA FACTOR: NS	14,500 S.F.		
SECTION 506.3.3 FRONTAGE INCREASE :	FRONTAGE INCREASE NOT REQUIRED			
TABLE 601 AND 602 FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS:	CONSTRUCTION TYPE:	IIB		
	STRUCTURAL FRAME:	0		
	BEARING WALLS:	0		
	T. 602 EXTERIOR:	< 5'	1hr	
		≥ 5'< 10'	1hr	
		≥ 10'< 30'	0	
		≥ 30'	0	
	INTERIOR:	0		
	NONBEARING WALLS:			
	T. 602 EXTERIOR:	< 5'	1hr	
		≥ 5'< 10'	1hr	
		≥ 10'< 30'	0	
		≥ 30'	0	
	INTERIOR:	0		
	FLOOR CONSTRUCTION:	0		
	ROOF CONSTRUCTION:	0		
TABLE 1020.1 CORRIDOR FIRE-RESISTANCE RATING PARTITIONS AND OPENING PROTECTIVES	GROUP E UNSPRINKLERED	0		

OCCUPANCY LEGEND
E
GROUP E

LIFE SAFETY NOTES	
FEC FIRE EXTINGUISHER AND CABINET (PROVIDE FIRE RATED CABINETS IN RATED WALLS.)	
FE FIRE EXTINGUISHER	ACCESSIBLE
FE(K) K-TYPE FIRE EXTINGUISHER	EXIT EXIT
	(320) EXIT CAPACITY
EXTEND AND KEY ALL RATED WALLS TO SHAFT WALL SYSTEM, AND/OR BOTTOM OF ROOF ASSEMBLY	
STENCIL LABEL ALL RATED WALLS & DRAFT STOPS ABOVE CEILING EACH SIDE @ 20'-0" O.C. MAX.	
ALL RATED DOORS AND FRAMES TO BE LABELED WITH EMBOSSED LABELS INDICATING RATING IN MINUTES	
COORDINATE W/ ELECTRICAL & MECHANICAL AND PROVIDE CONCRETE EQUIPMENT PAD AS REQUIRED	
HE – HORIZONTAL EXIT	
FB – FIRE BARRIER	
FP – FIRE PARTITION	
FW – FIRE WALL	
SM – SMOKE PARTITION	

DOOR/WINDOW RATING LEGEND	
(20) 20 MINUTE DOOR AND FRAME	(60) 60 MINUTE DOOR AND FRAME
(45) 45 MINUTE DOOR AND FRAME	(90) 90 MINUTE DOOR AND FRAME
(60) 60 MINUTE DOOR AND FRAME	(180) 180 MINUTE DOOR AND FRAME

WALL TYPE LEGEND	
	1 HR WALL
	2 HR WALL
	3 HR WALL
S–S–S–S–S–S–S–S–S–S–S–S–	SMOKE WALL
D–D–D–D–D–D–D–D–D–D–D–D	DRAFT STOP WALL

LATHAN ARCHITECTS

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155 School Road Locust Fork, AL 35097

BLOUNT COUNTY BOARD OF EDUCATION

STATE OF ALABAMA
No. 3365
RICK N. LATHAN
REGISTERED ARCHITECT

SHEET TITLE:
LIFE SAFETY PLAN

PROJ. MGR.: Ryan Vernon
DRAWN: hdr
DATE: 8-28-2024
REVISIONS

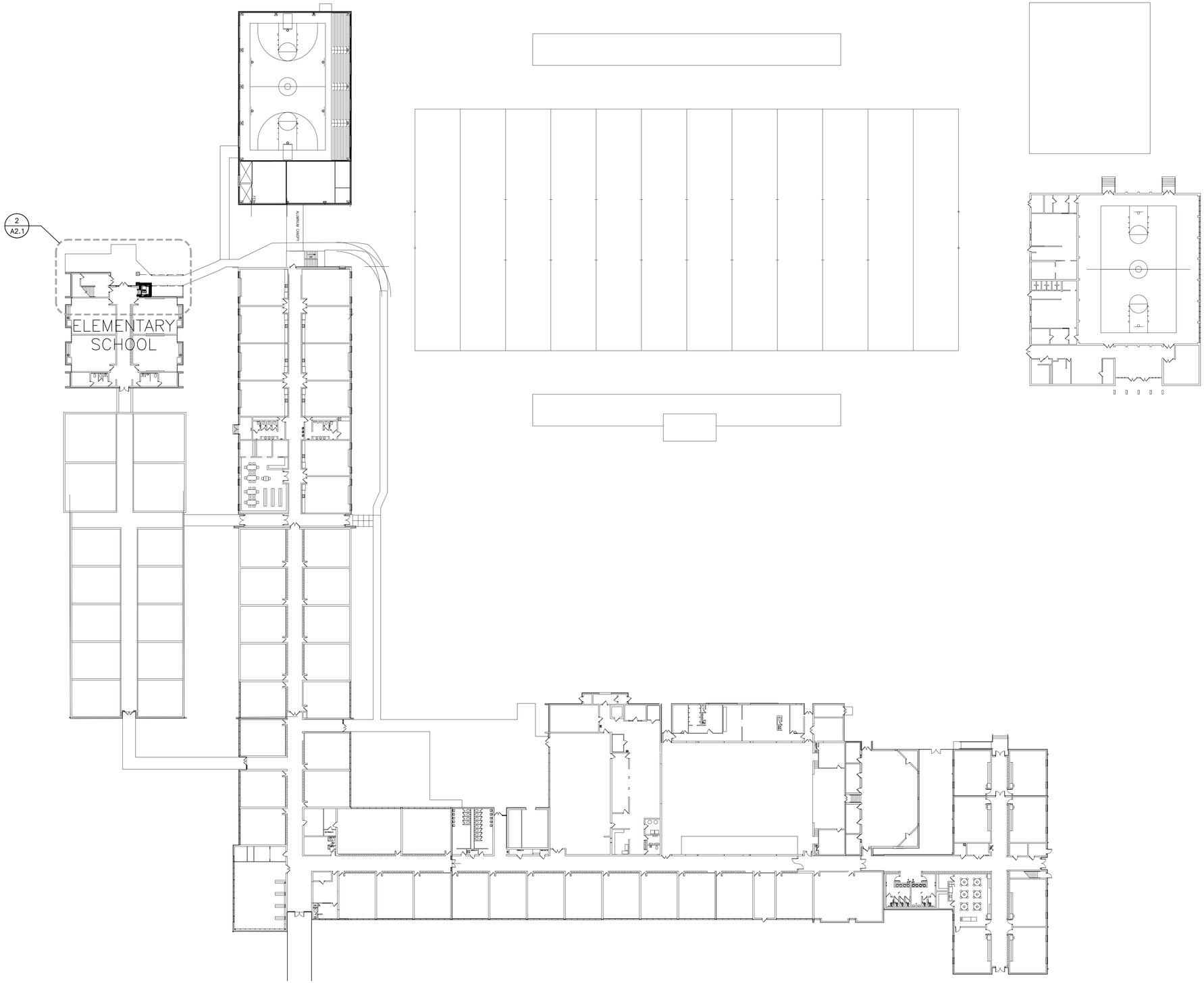
JOB NO. 24-39

SHEET NO:

LS1.0

2 OF 2

0 1" 2"



1 ARCHITECTURAL SITE PLAN

1/32" = 1'-0"

LATHAN
ARCHITECTS

NEW ELEVATOR FOR
LOCUST FORK ELEMENTARY SCHOOL

155 School Road Locust Fork, AL 35097

BLOUNT COUNTY BOARD OF EDUCATION

STATE OF ALABAMA
No. 3365
RICK N. LATHAN
REGISTERED ARCHITECT

SHEET TITLE:
ARCHITECTURAL SITE PLAN

PROJ. MGR.:	Ryan Vernon
DRAWN:	PPh
hdr	
DATE:	8-28-2024
REVISIONS	

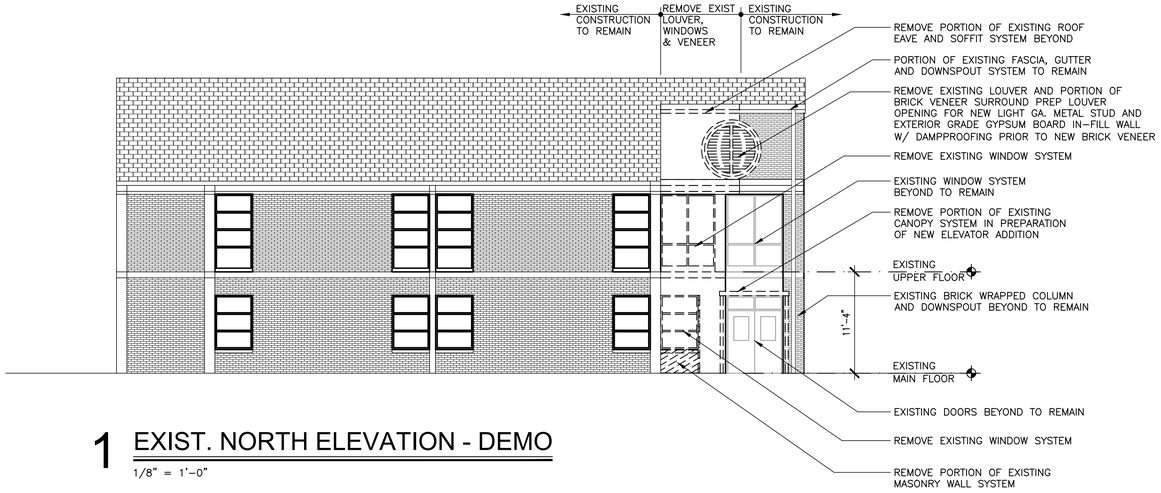
JOB NO. 24-39

SHEET NO:

A1.1

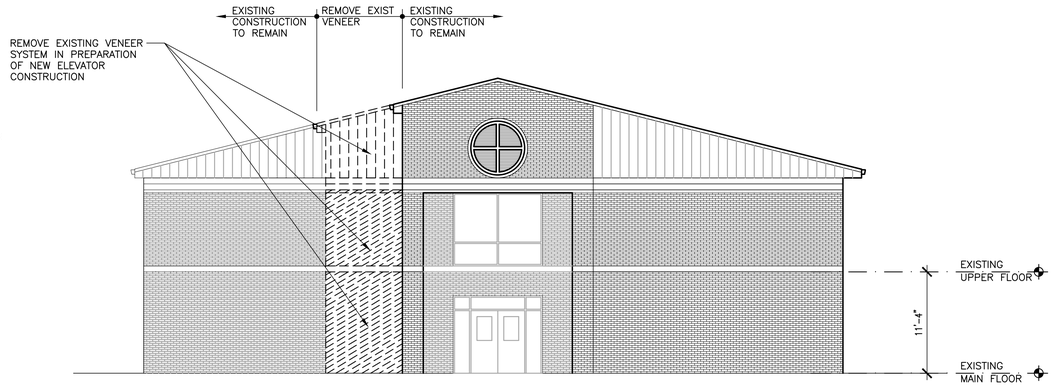
1 OF 6

0 1" 2"



1 EXIST. NORTH ELEVATION - DEMO

1/8" = 1'-0"



2 EXIST. WEST ELEVATION - DEMO

1/8" = 1'-0"

GENERAL DEMOLITION NOTES

1. PROVIDE ALL DEMOLITION WORK, WHETHER INDICATED OR NOT, AS REQUIRED TO PROVIDE NEW CONSTRUCTION.

   DASHED LINES INDICATE GENERAL EXISTING CONSTRUCTION TO BE REMOVED. CONTACT ARCHITECT FOR DEMOLITION CLARIFICATION IF UNCLEAR ON WHICH ITEMS ARE TO BE REMOVED.

2. GENERAL CONTRACTOR SHALL REMOVE ALL ABANDONED ARCHITECTURAL, PLUMBING, MECHANICAL, ELECTRICAL CONSTRUCTION. PROTECT ITEMS TO BE RELOCATED OR DESIGNATED AS SALVAGED.

3. CONTRACTOR SHALL PROTECT EXISTING CONSTRUCTION & SYSTEMS TO REMAIN AND CORRECT ANY DAMAGE RESULTING FROM DEMOLITION WORK. MAINTAIN AND REROUTE EXISTING MP&E IN THE PATH OF DEMOLITION AND SERVING THAT TO REMAIN OPERATIONAL. PROTECT FIRE ALARM SYSTEM AND MAINTAIN OPERATIONAL. MAINTAIN EXISTING FIRE WALLS FUNCTIONAL.

4. COORDINATE WITH FINISH LEGEND AND SCHEDULE TO DETERMINE EXISTING SURFACES TO RECEIVE NEW FINISHES. REMOVE EXISTING FINISHES AS REQUIRED AND MAKE EXISTING SURFACES READY TO RECEIVE NEW FINISHES. PATCH AND/OR REPAIR EXISTING ADJACENT CONSTRUCTION TO REMAIN.

5. CONTACT AND COORDINATE W/ ARCHITECT & STRUCTURAL ENGINEER BEFORE REMOVING OR ALTERING ANY STRUCTURAL COMPONENTS.

   SEE RESPECTIVE STRUCTURAL, PLUMBING, HVAC AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION REQUIREMENTS.

6. COORDINATE WITH THE OWNER BEFORE REMOVING ANY SALVAGEABLE MATERIALS & EQUIPMENT.

7. DEMOLITION WORK SHALL NOT CHANGE THE INTEGRITY OF EXISTING STRUCTURE, FIRE ALARM SYSTEM & FIRE RATED CONSTRUCTION TO REMAIN. ANY EXISTING FIRE RATED CONSTRUCTION TO REMAIN WHICH HAS BEEN AFFECTED BY DEMOLITION WORK MUST BE CORRECTED AND MADE TO MEET THE ORIGINAL RATING.

8. COORDINATE WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING & ELECTRICAL DRAWINGS TO DETERMINE LIMITS OF DEMOLITION REQUIRED FOR NEW CONSTRUCTION.

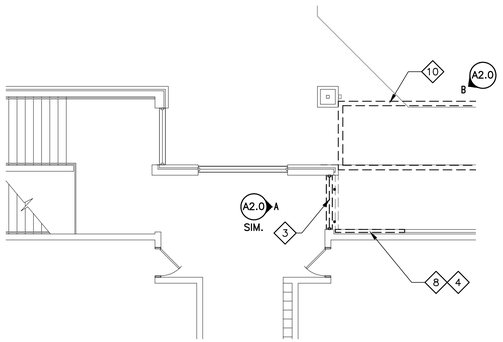
9. COORDINATE ALL UTILITY OUTAGES OVER WEEKENDS OR HOLIDAYS WITH OWNER PRIOR TO DEMOLITION.

GENERAL DEMOLITION KEY NOTES

1. REMOVE EXISTING LOUVER SYSTEM AND BRICK ROWLOCK SURROUND.
2. REMOVE EXISTING WINDOW, FRAME AND ASSOCIATED MASONRY CONSTRUCTION AND TOOTH-IN MASONRY BACK TO PROVIDE A NEW MASONRY OPENING AS REQUIRED FOR THE ELEVATOR ENTRANCE.
3. SELECTIVELY REMOVE EXISTING WINDOW, FRAME AND CONSTRUCTION AS REQUIRED TO ALLOW FOR NEW MASONRY INFILL TO MATCH EXISTING COURSING. (TYPICAL)
4. CAREFULLY REMOVE EXISTING BRICK VENEER AND ASSOCIATED VENEER CONSTRUCTION IN THIS AREA. SAVE AS MANY FULL, UNBROKEN, BRICKS AS POSSIBLE FOR POSSIBLE USE AS INFILL BRICK VENEER AT THE EXISTING LOUVER.
5. REMOVE PORTION OF EXISTING WALL CONSTRUCTION AS INDICATED TO ALLOW FOR NEW ELEVATOR DOOR OPENING.
6. COORDINATE WITH THE OWNER PRIOR TO REMOVAL OF ANY SALVAGEABLE MATERIALS SUCH AS BUT NOT LIMITED TO CAMERAS, SPEAKERS AND LIGHT FIXTURES. ALL SALVAGED MATERIAL TO BE STOCKPILED AND PROTECTED THROUGHOUT CONSTRUCTION AS DIRECTED BY OWNER.
7. ONCE NEW WALLS HAVE BEEN ADDED AND THE EXISTING ROOF OVERHANGS EDGES TO REMAIN HAVE BEEN SUPPORTED, (SEE STRUCTURAL), THEN REMOVE PORTION OF EXISTING ROOF OVERHANG, EAVES, SOFFIT, FRAME EXTENSIONS AND GUTTER BETWEEN AS NECESSARY FOR NEW CONSTRUCTION TO BE COMPLETED.
8. PREPARE EXISTING CONSTRUCTION AS REQUIRED TO ACCEPT NEW CONSTRUCTION IN THIS AREA.
9. REMOVE EXISTING WALL VENEER SYSTEM IN THE AREA OF NEW CONSTRUCTION, PREPARE THE EXISTING CONSTRUCTION IN THIS AREA TO ACCEPT NEW ELEVATOR.
10. REMOVE EXISTING CANOPY SYSTEM AS NECESSARY FOR CONSTRUCTION.
11. PROTECT EXISTING FLOORING AND BASE DURING DEMOLITION AND CONSTRUCTION AS AS NECESSARY. PATCH AND REPAIR AS NECESSARY. REPLACE ANY FLOOR DAMAGED BEYOND PATCHING AND PREP FOR NEW FLOORING TO SYSTEM TO MATCH EXISTING.
12. REMOVE PORTION OF EXISTING SIDEWALK AS NECESSARY FOR NEW CONSTRUCTION
13. REMOVE PORTION OF EXISTING CEILING SYSTEM AS NECESSARY FOR NEW CONSTRUCTION PATCH AND REPAIR AS NECESSARY
14. SELECTIVELY REMOVE BRICK IN THIS AREA TO ALLOW FOR NEW FULL BRICKS TO BE TOOTHED BACK IN TO MATCH EXISTING.

DEMOLITION LEGEND

- EXISTING CONSTRUCTION TO BE REMOVED
- EXISTING CONSTRUCTION TO REMAIN
- EXISTING DOOR AND ASSOCIATED CONSTRUCTION TO BE REMOVED
- EXISTING DOOR TO REMAIN
- AREA OF BUILDING FOOTPRINT



3 DEMO PLAN UPPER FLOOR

1/8" = 1'-0"

A DEMOLITION PHOTO

1/8" = 1'-0"

4 DEMOLITION PLAN MAIN FLOOR

1/8" = 1'-0"

B DEMOLITION PHOTO

1/8" = 1'-0"

KEYPLAN

N.T.S.

LATHAN ARCHITECTS

NEW ELEVATOR FOR LOCUST FORK ELEMENTARY SCHOOL

155 School Road Locust Fork, AL 35097

BLOUNT COUNTY BOARD OF EDUCATION

STATE OF ALABAMA
No. 3365
RICK N. LATHAN
REGISTERED ARCHITECT

SHEET TITLE:
DEMOLITION PLANS, ELEVATIONS AND PHOTOS

PROJ. MGR.:	Ryan Vernon
DRAWN:	PPh
hdr	
DATE:	8-28-2024
REVISIONS	

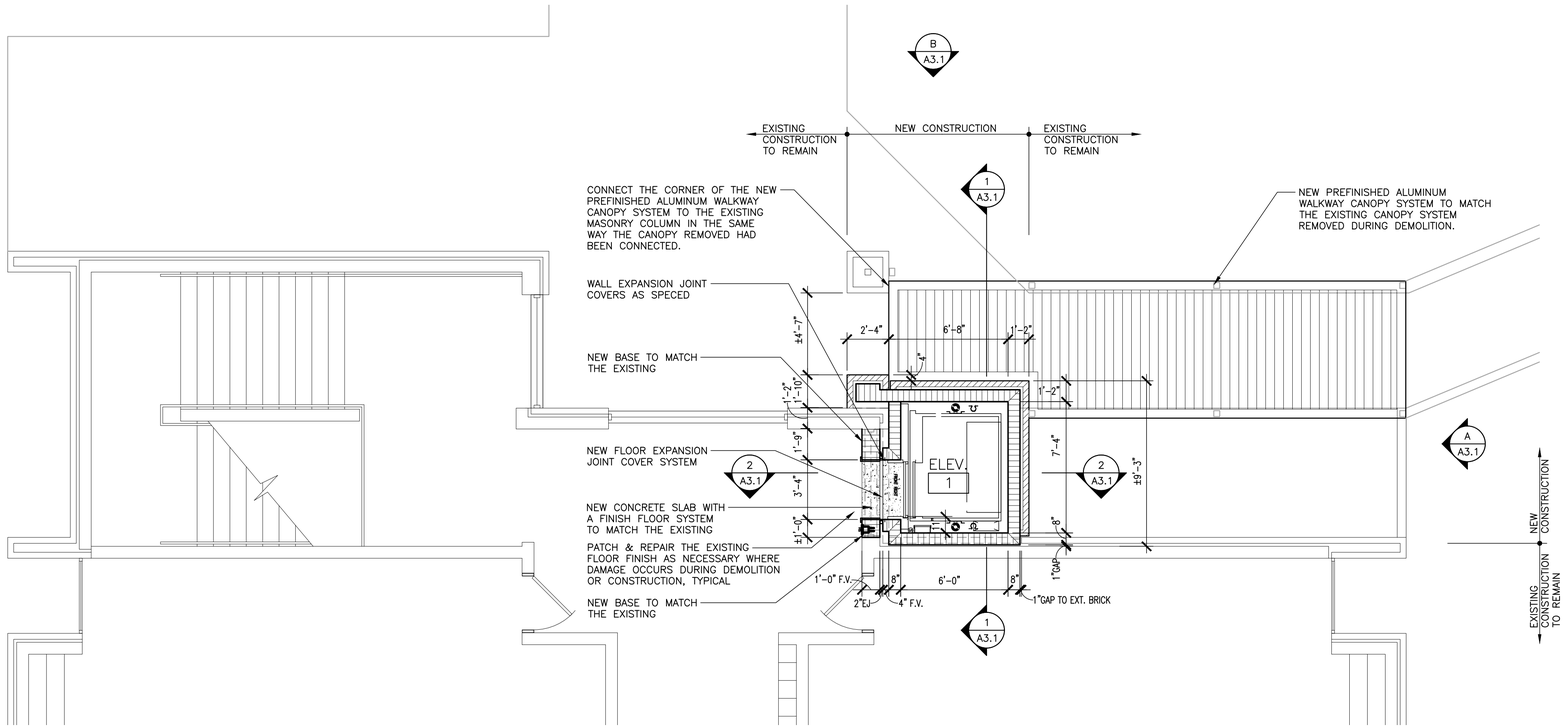
JOB NO. 24-39

SHEET NO:

A2.0

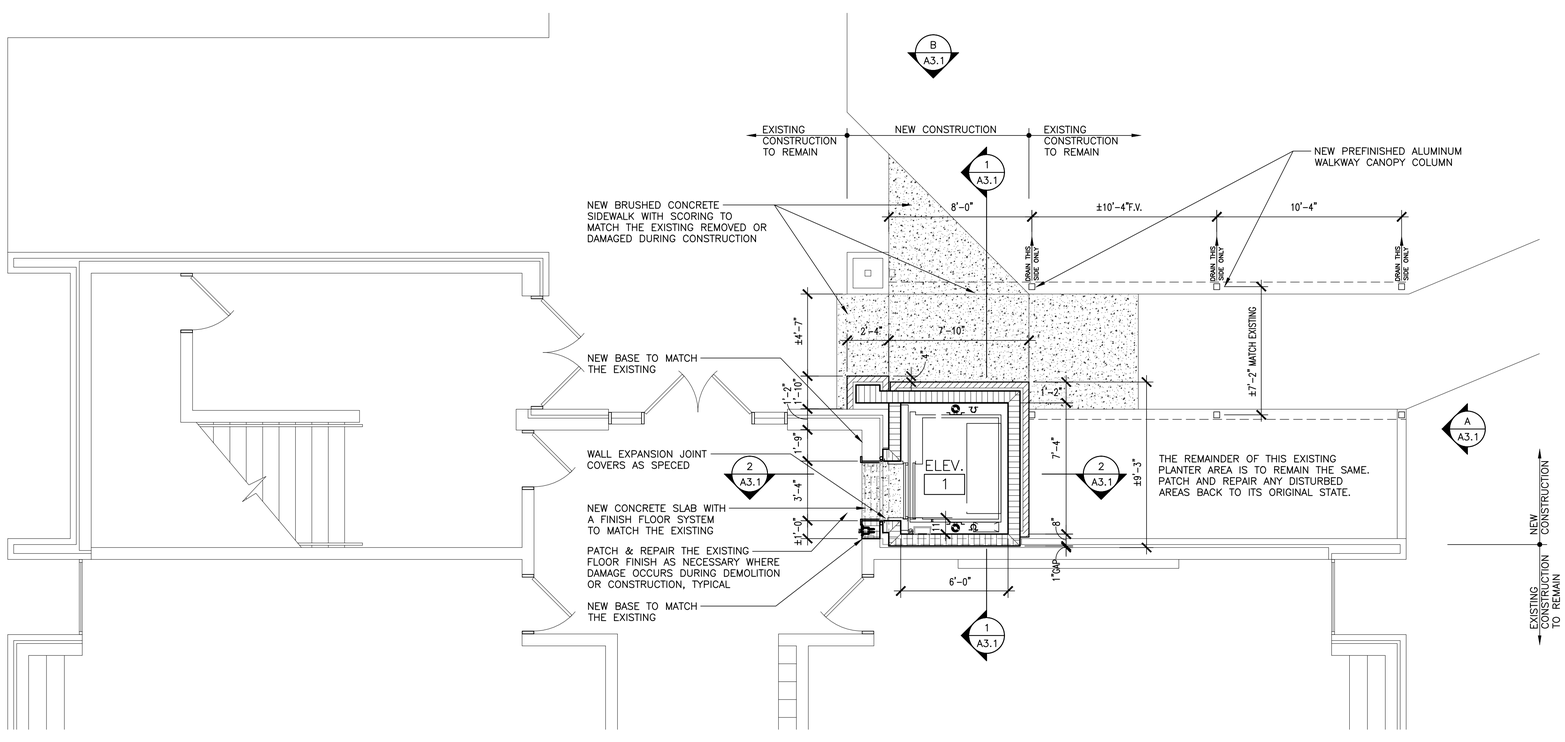
2 OF 6

0 1" 2"



1 UPPER LEVEL FLOOR PLAN

1/4" = 1'-0"



2 LOWER LEVEL FLOOR PLAN

1/4" = 1'-0"

KEYPLAN

N.T.S.

WALL TYPE LEGEND

WALL	EXISTING WALL TO REMAIN
CMU WALL	8" CONCRETE MASONRY WALL. SEE LIFE SAFETY PLAN FOR FIRE RATING.
EXTERIOR WALL	NEW 4" BRICK VENEER W/ AIR SPACE & RIGID INSULATION ON REINFORCED CMU WITH DAMPPROOFING, PROVIDE BRICK WALL TIES @ 16" O.C.
AREA OF CONCRETE	NEW 4" THICK, BRUSH FINISHED, TOOL SCORED CONCRETE WALKWAY - WHEN SHOWN OUTSIDE. NEW CONCRETE SLAB FLOOR WITH FLOOR FINISH TO MATCH EXISTING - WHEN SHOWN IN INTERIOR.

GENERAL NOTES

- EXTEND AND KEY RATED WALLS TO BOTTOM OF FLOOR STRUCTURE OR ROOF DECK ABOVE. SEE LIFE SAFETY DRAWINGS FOR RATED WALL LOCATIONS.
- COORDINATE WITH ELEVATOR MANUFACTURER, ELECTRICAL AND PLUMBING TO PROVIDE THE ELEVATOR SUMP PUMP AND PIT AS REQUIRED.
- AT ALL AREAS OF WALL INFILL TOOTH IN NEW MASONRY AS REQUIRED TO MATCH EXISTING COURSING AS REQUIRED.
- ALL PLAN DIMENSIONS ARE TO FACE OF CMU WALL UNLESS NOTED OTHERWISE.
- ALL PLAN DIMS ARE TO FACE OF CMU & TO OUTSIDE OF BRICK AND TO FACE OF GYPSUM BOARD, UNLESS NOTED OTHERWISE
- SEE ELEVATIONS AND ROOF PLAN FOR DOWNSPOUT LOCATIONS
- SLOPE ALL SIDEWALKS AWAY FROM THE BUILDING

SYMBOLS LEGEND

1 / A1.1 — ELEV. MARK / SHEET NUMBER	1C / A — DOOR TYPE / DOOR RATING / HARDWARE SYMBOL
NEW DOOR AND SWING	1 / A1.1 — SECT. MARK / SHEET NUMBER
EWC ELECTRIC WATER COOLER	10 / A5.1 — ELEV. MARK / SHEET NUMBER INT. ELEVATION
FEC RECESSED FIRE EXTINGUISHER CABINET WITH EXTINGUISHER	
A200 ROOM NUMBER	AREA OF CONCRETE
EJ EXPANSION JOINT	F.D. FLOOR DRAIN
FE SURFACE MOUNT FIRE EXTINGUISHER	CJ CONTROL JOINT

LATHAN ARCHITECTS

NEW ELEVATOR FOR LOCUST FORK ELEMENTARY SCHOOL

155 School Road Locust Fork, AL 35097

BLOUNT COUNTY BOARD OF EDUCATION

STATE OF ALABAMA
No. 3365
RICK N. LATHAN
REGISTERED ARCHITECT

SHEET TITLE:
FLOOR PLANS

PROJ. MGR.:	Ryan Vernon
DRAWN:	PPh
hdr	
DATE:	8-28-2024
REVISIONS	

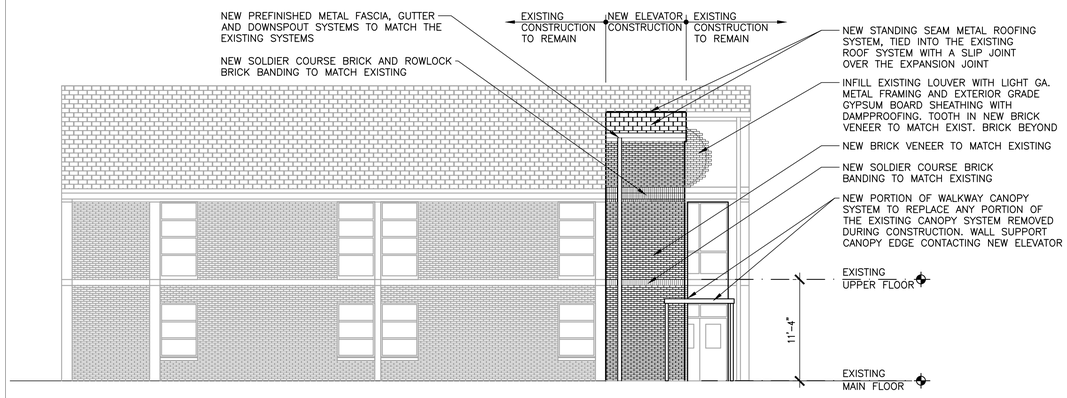
JOB NO. 24-39

SHEET NO:

A2.1

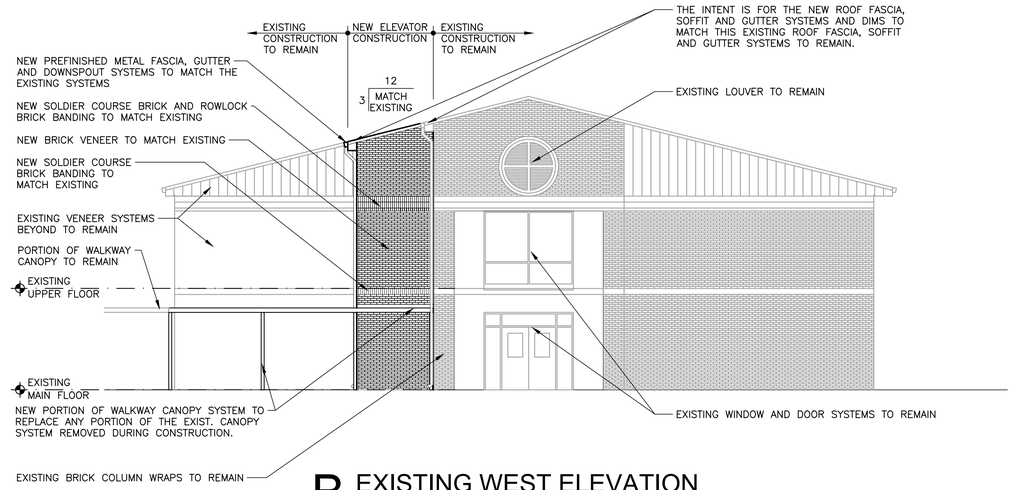
3 OF 6

0 1" 2"



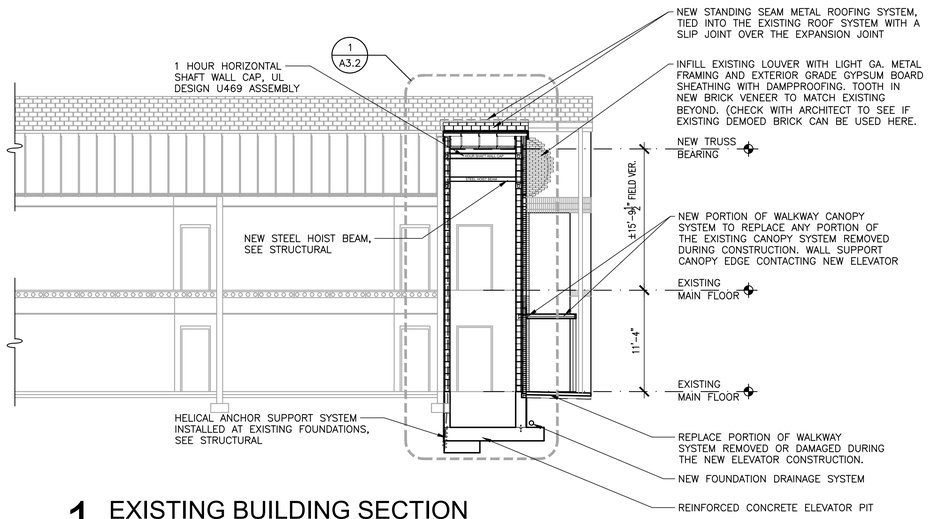
A EXISTING NORTH ELEVATION

1/8" = 1'-0"



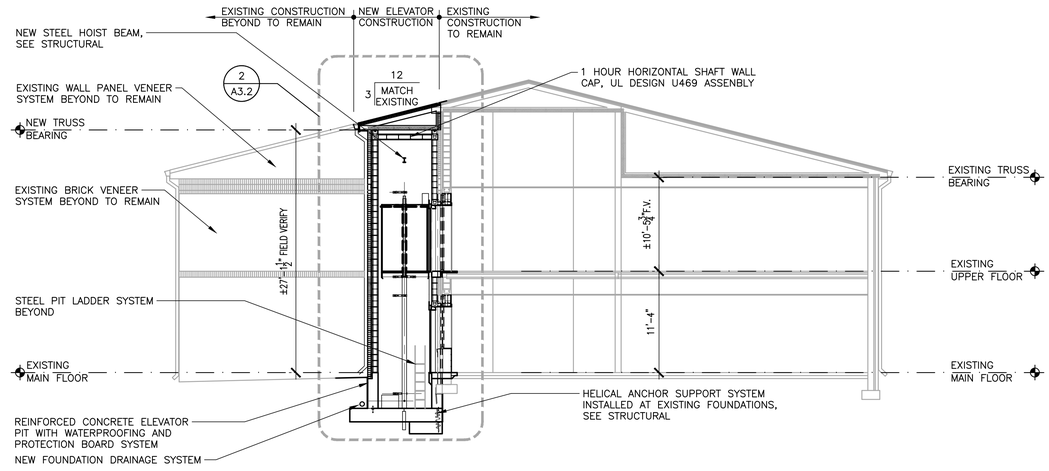
B EXISTING WEST ELEVATION

1/8" = 1'-0"



1 EXISTING BUILDING SECTION

1/8" = 1'-0"



2 EXISTING BUILDING SECTION

1/8" = 1'-0"

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NEW ELEVATOR FOR LOCUST FORK ELEMENTARY SCHOOL

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BLOUNT COUNTY BOARD OF EDUCATION

STATE OF ALABAMA
No. 3365
RICK N. LATHAN
REGISTERED ARCHITECT

SHEET TITLE:
BUILDING ELEVATIONS AND BUILDING SECTIONS

PROJ. MGR.:	Ryan Vernon
DRAWN:	PPh
hdr	
DATE:	8-28-2024
REVISIONS	

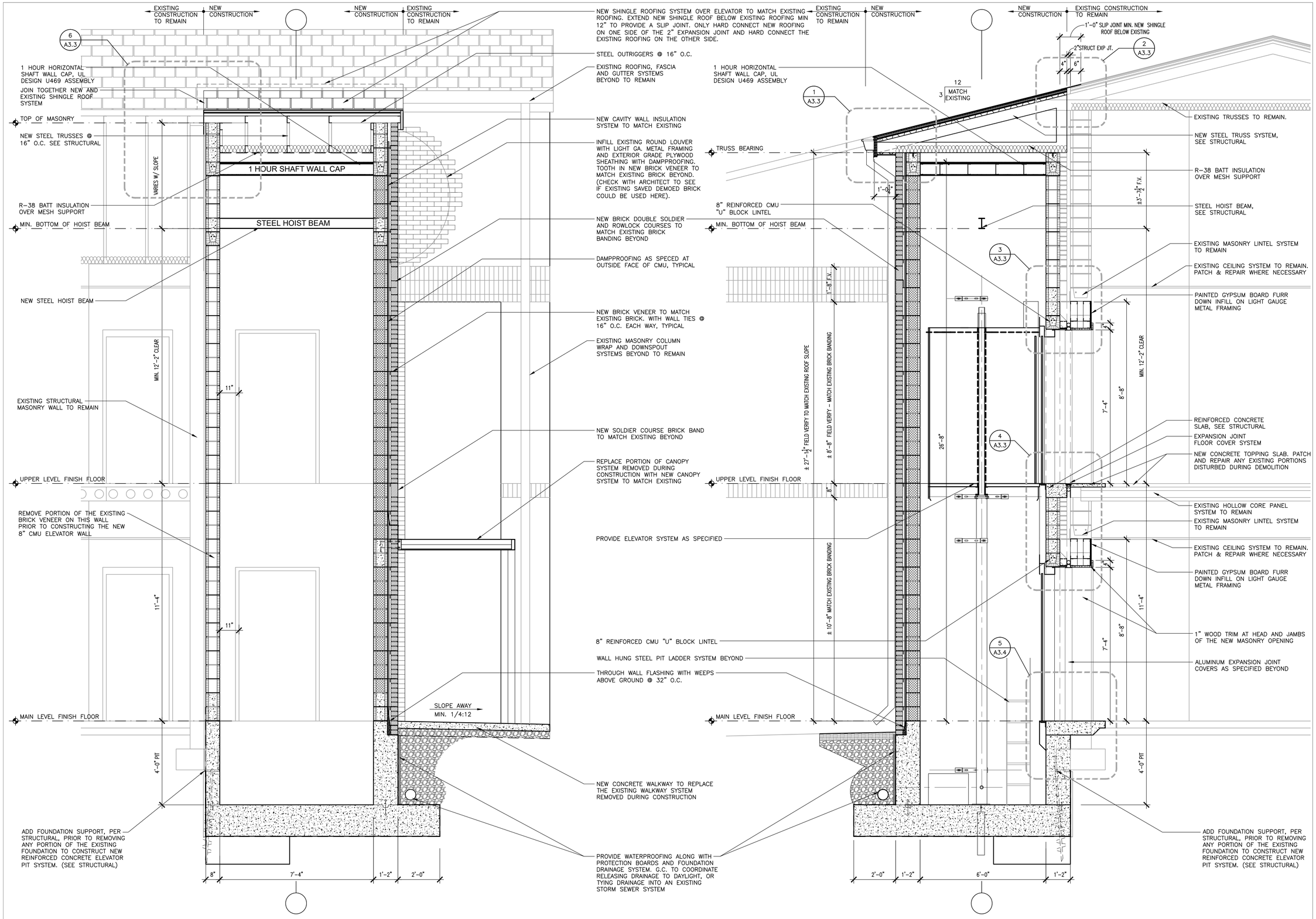
JOB NO. 24-39

SHEET NO:

A3.1

4 OF 6

0 1" 2"



1 NEW ELEVATOR SECTION
1/2" = 1'-0"

2 NEW ELEVATOR SECTION
1/2" = 1'-0"

LATHAN ARCHITECTS

NEW ELEVATOR FOR LOCUST FORK ELEMENTARY SCHOOL

155 School Road Locust Fork, AL 35097
BLOUNT COUNTY BOARD OF EDUCATION

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RICK N. LATHAN
REGISTERED ARCHITECT

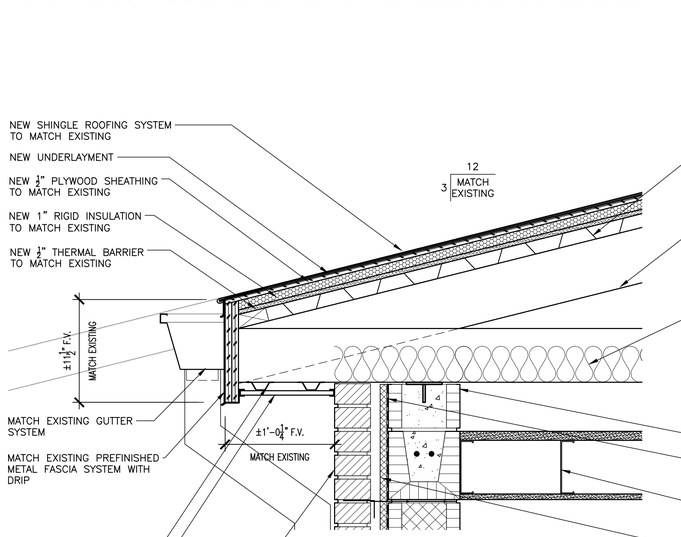
SHEET TITLE:
ELEVATOR SECTIONS

PROJ. MGR.:	Ryan Vernon
DRAWN:	PPh
hdr	
DATE:	8-28-2024
REVISIONS	

JOB NO. 24-39

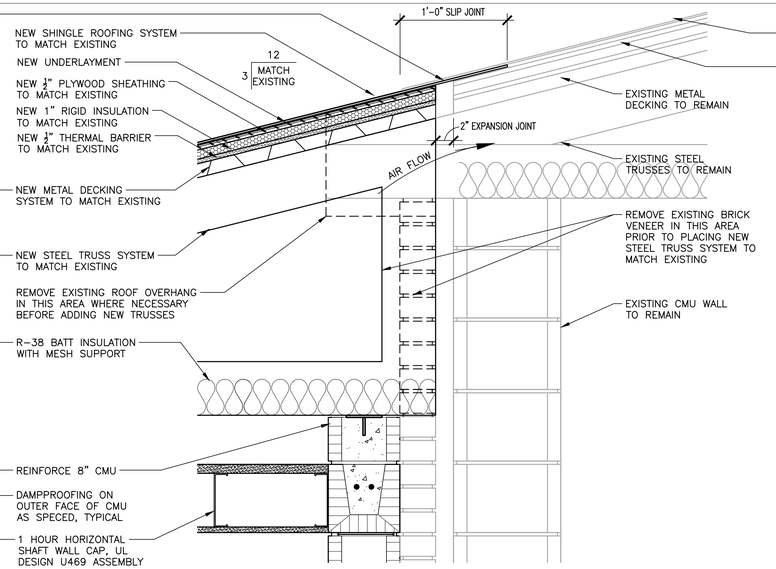
SHEET NO:
A3.2
5 OF 6

0 1" 2"



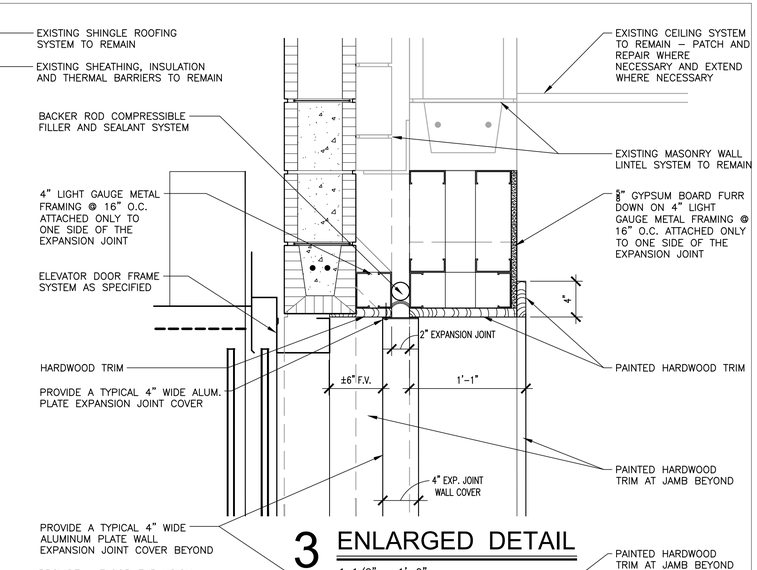
1 ENLARGED ROOF DETAIL

1 1/2" = 1'-0"



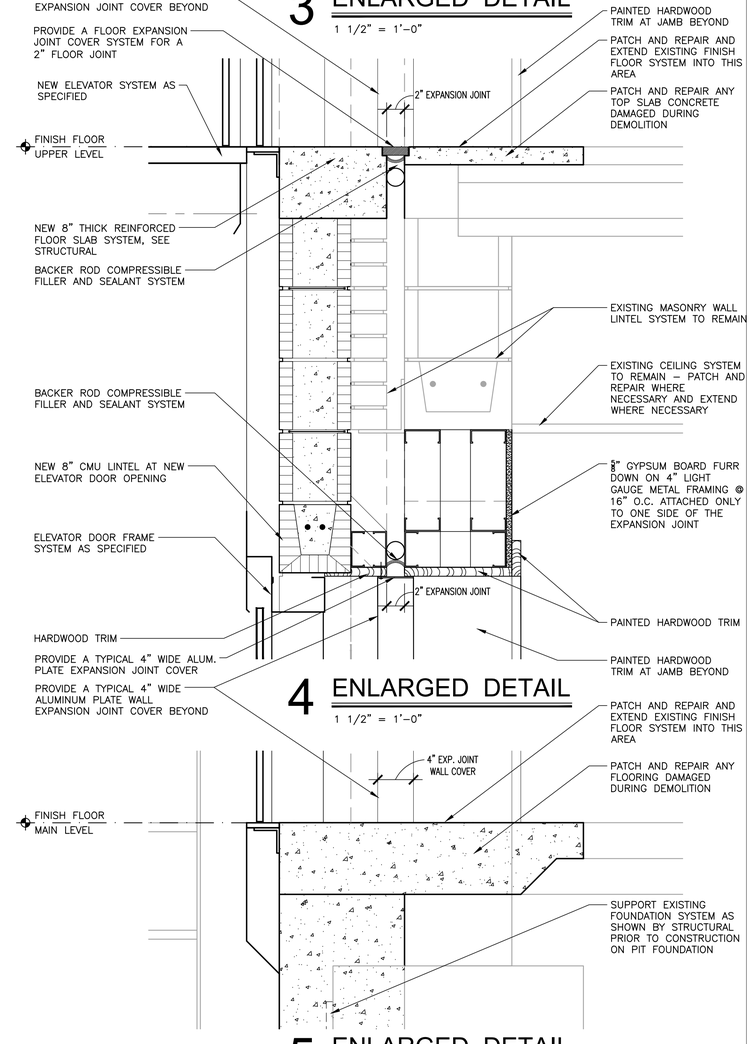
2 ENLARGED ROOF DETAIL

1 1/2" = 1'-0"



3 ENLARGED DETAIL

1 1/2" = 1'-0"

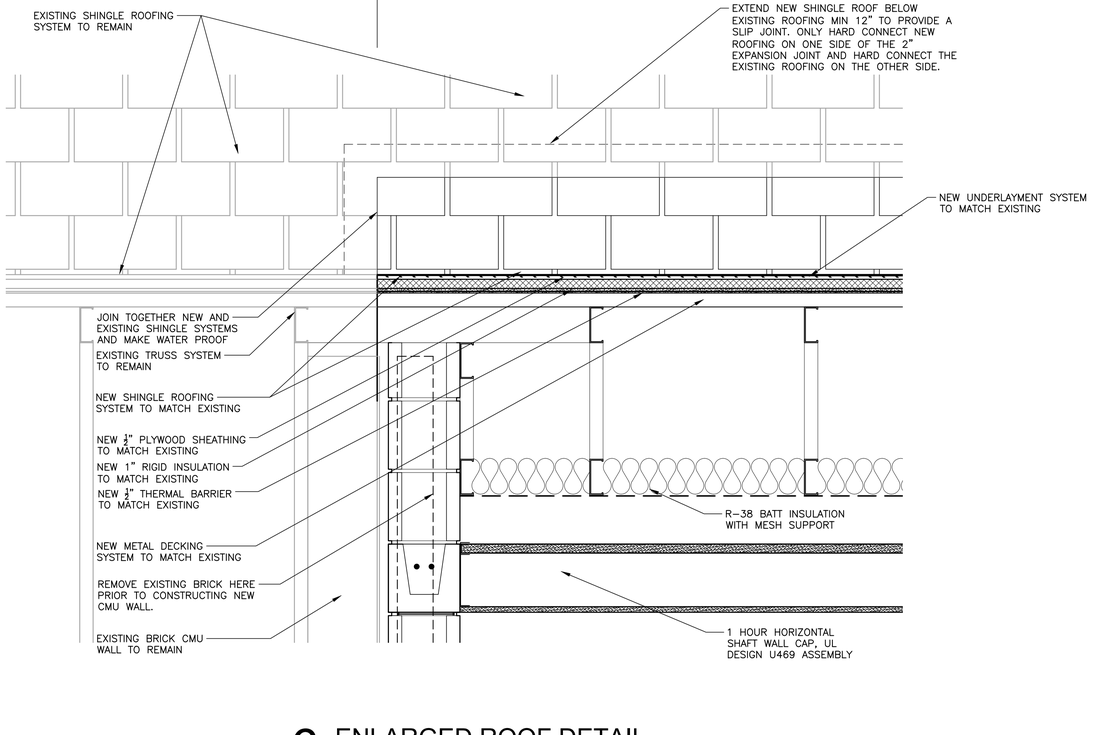


4 ENLARGED DETAIL

1 1/2" = 1'-0"

5 ENLARGED DETAIL

1 1/2" = 1'-0"



6 ENLARGED ROOF DETAIL

1 1/2" = 1'-0"

LATHAN ARCHITECTS

NEW ELEVATOR FOR LOCUST FORK ELEMENTARY SCHOOL

155 School Road Locust Fork, AL 35097

BLOUNT COUNTY BOARD OF EDUCATION

SHEET TITLE:
ENLARGED DETAILS

PROJ. MGR.:	Ryan Vernon
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hdr	
DATE:	8-28-2024
REVISIONS	

JOB NO. 24-39

SHEET NO:

A3.3

6 OF 6

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SDG
STRUCTURAL DESIGN GROUP
300 Chase Park South, Suite 125
Hoover, AL 35244
tel 205-824-5200
fax 205-824-5280
Job Number 24-120

GENERAL NOTES

1.0 DESIGN CRITERIA

1.1 CODES AND SPECIFICATIONS:

A. GENERAL BUILDING CODE:
INTERNATIONAL BUILDING CODE, 2021 EDITION.

B. CONCRETE:
BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-19)

C. STRUCTURAL STEEL:
SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, AMERICAN INSTITUTE OF STEEL CONSTRUCTION (ANSI/AISC 360-16)

D. STEEL DECK:
STEEL DECK INSTITUTE DESIGN MANUALS FOR COMPOSITE DECKS, NON-COMPOSITE DECKS, AND ROOF DECKS, LATEST EDITIONS.

E. MASONRY:
SPECIFICATIONS FOR MASONRY STRUCTURES (TMS 602-16)

BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (TMS 602-16)

NATIONAL CONCRETE MASONRY ASSOCIATION'S STANDARD PRACTICES AND "SPECIFICATION FOR THE DESIGN AND CONSTRUCTION OF LOAD BEARING CONCRETE MASONRY"

1.2 DESIGN GRAVITY LOADS (PSF):

A. DEAD LOADS:
ANY CHANGES IN CONSTRUCTION MATERIALS FROM THOSE SHOWN ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS SHALL BE REPORTED BY THE GENERAL CONTRACTOR TO THE STRUCTURAL ENGINEER FOR VERIFICATION OF LOAD-CARRYING CAPACITY OF THE STRUCTURE.

B. FLOOR LIVE LOADS:
NON-REDUCIBLE PARTITION LIVE LOAD OF 20 PSF HAS BEEN INCLUDED PER IBC SECTION 1607.5.

LIVE LOAD REDUCTIONS AS DETERMINED BY IBC SECTION 1607.12 HAVE BEEN TAKEN WHERE PERMITTED.

FLOOR (REDUCIBLE)----------100
STORAGE----------125
STAIRS & EXITWAYS----------100

C. ROOF LIVE LOADS:
WHERE PERMITTED ROOF LIVE LOADS ARE REDUCED FROM THE BASE VALUE SHOWN BELOW IN ACCORDANCE WITH IBC SECTION 1607.14

ROOF----------20

D. ROOF SNOW LOADS:
GROUND SNOW LOAD (Pg)----------10.0
IMPORTANCE FACTOR (I)----------1.1
EXPOSURE FACTOR (Ce)----------1.0
THERMAL FACTOR (Ct)----------1.0

1.3 DESIGN LATERAL LOADS:

A. WIND LOADS:
ULTIMATE DESIGN WIND SPEED (3-SECOND GUST)----------114MPH
BASIC WIND SPEED (3-SECOND GUST)----------92MPH
WIND IMPORTANCE FACTOR (I)----------1.00
WIND EXPOSURE CATEGORY----------C
INTERNAL PRESSURE COEFFICIENTS---------- +/- 0.18
SEE TYPICAL DETAILS FOR COMPONENT AND CLADDING LOADS

B. SEISMIC LOADS:
OCCUPANCY CATEGORY III (GROUP E OCCUPANCIES WITH OCCUPANCY > 250)
SEISMIC IMPORTANCE FACTOR----------1.25
MAPPED SPECTRAL RESPONSE ACCELERATIONS:
SS----------0.269
S1----------0.112
SITE CLASS----------D
SPECTRAL RESPONSE COEFFICIENTS:
SDS----------0.309
SD1----------0.177
SEISMIC DESIGN CATEGORY----------C
BASIC SEISMIC-FORCE-RESISTING SYSTEM:
INTERMEDIATE REINFORCED MASONRY SHEAR WALLS
DESIGN BASE SHEAR:
BASE BID (NON-STORM)----------20 KIPS
SEISMIC RESPONSE COEFFICIENT, Cs----------0.1015
RESPONSE MODIFICATION FACTOR, R----------3.5
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE

2.0 GENERAL CONDITIONS

2.1 THE STRUCTURAL DRAWINGS AND SPECIFICATIONS ARE A PORTION OF THE CONSTRUCTION DOCUMENTS. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL REFERENCE AND COORDINATE WITH OTHER DISCIPLINE'S DRAWINGS. ANY DISCREPANCIES OR OMISSIONS SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT AND STRUCTURAL DESIGN GROUP.

2.2 ALL REPORTS, PLANS, SPECIFICATIONS, COMPUTER FILES, FIELD DATA, NOTES, AND OTHER DOCUMENTS AND INSTRUMENTS PREPARED BY STRUCTURAL DESIGN GROUP AS INSTRUMENTS OF SERVICE SHALL REMAIN THE PROPERTY OF STRUCTURAL DESIGN GROUP. STRUCTURAL DESIGN GROUP SHALL RETAIN ALL COMMON LAW, STATUTORY, AND OTHER RESERVED RIGHTS, INCLUDING THE COPYRIGHT THERETO.

2.3 CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS AND SITE CONDITIONS PRIOR TO FABRICATION/CONSTRUCTION. NOTIFY STRUCTURAL ENGINEER AND ARCHITECT OF ANY DISCREPANCIES PRIOR TO FABRICATION/CONSTRUCTION.

2.4 WHERE SHOP DRAWINGS, CALCULATIONS, OR SUBMITTALS ARE CALLED FOR IN THE PROJECT DOCUMENTS (DRAWINGS AND SPECIFICATIONS) AND ARE NOT PROVIDED BY THE CONTRACTOR, THE CONTRACTOR ASSUMES TOTAL RESPONSIBILITY FOR THE DESIGN AND ASSOCIATED WORK.

2.5 ENGINEER'S SHOP DRAWING REVIEW IS LIMITED TO REVIEW FOR GENERAL CONFORMANCE WITH THE DESIGN INTENT REFLECTED IN THE STRUCTURAL PORTION OF THE CONTRACT DOCUMENTS. THIS REVIEW DOES NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE DRAWINGS, SPECIFICATIONS OR OTHER PROJECT CONTRACT DOCUMENTS. NO RESPONSIBILITY IS ASSUMED OR IMPLIED FOR THE CORRECTNESS OF DIMENSIONS OR DETAILS. THIS REVIEW DOES NOT AUTHORIZE CHANGES TO THE CONTRACT SUM UNLESS STATED IN A SEPARATE WRITTEN FORM OR CHANGE ORDER. CONTRACTOR SHALL CONFIRM AND CORRELATE ALL QUANTITIES AND DIMENSIONS, SELECT FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, COORDINATE HIS WORK WITH THAT OF OTHER TRADES, AND PERFORM HIS WORK IN A SAFE AND SATISFACTORY MANNER. CONTRACTOR SHALL ALSO REFER TO THE REQUIREMENTS OF THE GENERAL AND SUPPLEMENTARY GENERAL CONDITIONS.

2.6 ALL DETAILS SHOWN ARE TYPICAL. SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS, UNLESS NOTED.

2.7 VERIFY ALL DIMENSIONS AND DETAILS SHOWN ON THESE DRAWINGS. ANY DISCREPANCIES OR OMISSIONS FOUND SHALL BE REPORTED TO THE ENGINEER AND OTHER DESIGN PROFESSIONALS AS APPROPRIATE FOR RESOLUTION PRIOR TO PROCEEDING WITH ANY RELATED WORK.

2.8 THESE DRAWINGS DO NOT INCLUDE PROVISIONS TO SATISFY JOB SITE SAFETY REQUIREMENTS. CONTRACTOR IS SOLELY RESPONSIBLE FOR ENSURING SAFETY DURING CONSTRUCTION AND FOR CONFORMANCE TO ALL APPLICABLE OSHA STANDARDS. JOBSITE VISITS BY ENGINEER SHALL NOT CONSTITUTE APPROVAL, AWARENESS OR LIABILITY FOR ANY HAZARDOUS CONDITIONS.

2.9 STRUCTURAL DESIGN GROUP IS NOT RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, SAFETY PROCEDURES, CONSTRUCTION SUPERVISION OR SITE SAFETY, AND DOES NOT HAVE THE AUTHORITY TO STOP WORK FOR THESE ITEMS. DRAWINGS FURTHER DO NOT PROVIDE ENGINEERING CONTROLS FOR SILICA STANDARD OR ANY OTHER SAFETY STANDARD.

2.10 THE CONTRACTOR IS SOLELY RESPONSIBLE FOR BRACING AND SHORING ALL EXCAVATIONS, DEWATERING OF EXCAVATION FROM EITHER SURFACE WATER, GROUND WATER OR SEEPAGE, TEMPORARY AND EXISTING STRUCTURES, AND PARTIALLY COMPLETED PORTIONS OF THE WORK TO ASSURE THE SAFETY OF ANY PERSON COMING IN CONTACT WITH THE WORK.

2.11 THE STRUCTURAL INTEGRITY OF THE BUILDING IS DEPENDENT UPON COMPLETION ACCORDING TO THE PLANS AND SPECIFICATIONS. THE STRUCTURAL ENGINEER OF RECORD ASSUMES NO LIABILITY FOR THE STRUCTURE DURING CONSTRUCTION. THE METHOD OF CONSTRUCTION AND SEQUENCE OF OPERATIONS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL SUPPLY ANY NECESSARY BRACING, GUYS, ETC. TO PROPERLY BRACE THE STRUCTURE AGAINST WIND, DEAD AND LIVE LOADS UNTIL THE BUILDING IS COMPLETED ACCORDING TO THE PLANS AND SPECIFICATIONS. ANY QUESTIONS REGARDING TEMPORARY BRACING REQUIREMENTS SHOULD BE FORWARDED TO A STRUCTURAL ENGINEER FOR REVIEW.

2.12 MECHANICAL UNITS AND ANY OTHER EQUIPMENT SUPPORTED BY THE STRUCTURE WITH WEIGHTS IN EXCESS OF 200 LBS SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION.

2.13 WHERE NOTED IN DRAWINGS AND SPECIFICATIONS TO INSTALL PRODUCTS PER THE MANUFACTURER'S RECOMMENDATIONS, IT SHALL BE REQUIRED THAT THE CONTRACTOR FOLLOWS THE MANUFACTURER'S RECOMMENDATIONS.

2.14 STRUCTURAL OBSERVATION IS VISUAL OBSERVATION OF THE IN PLACE STRUCTURE FOR GENERAL CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS AT THE TIME OF THE OBSERVATION AND SHALL NOT BE CONSTRUED AS INSPECTION OR APPROVAL OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING TESTING AND SPECIAL INSPECTIONS PER THE REQUIREMENTS IN THE PROJECT MANUAL.

2.15 OBSERVATION BY THE ENGINEER OF RECORD'S OFFICE DOES NOT REPLACE INSPECTIONS AND TESTING BY THE TESTING AGENCY OR SPECIAL INSPECTOR.

3.0 FOUNDATIONS

3.1 A GEOTECHNICAL ENGINEER, EMPLOYED BY THE GENERAL CONTRACTOR, SHALL PROVIDE COMPACTED FILL REQUIREMENTS FOR THE BUILDING PAD AND REVIEW THE FOUNDATION BEARING SURFACE TO VERIFY THE ASSUMED ALLOWABLE BEARING PRESSURE AND SEISMIC SITE CLASS NOTED. DO NOT PLACE CONCRETE PRIOR TO GEOTECHNICAL ENGINEER'S APPROVAL.

3.2 ASSUMED MAXIMUM ALLOWABLE BEARING PRESSURES (PSF):
CONTINUOUS WALL FOOTINGS----------2000

3.3 HELICAL EARTH ANCHORS
A. HELICAL EARTH ANCHORS SHALL BE DESIGNED FOR THE LOADS NOTED ON THE DRAWINGS.

B. HELICAL EARTH ANCHOR SUPPLIER IS TO BE RESPONSIBLE FOR THE DESIGN OF ALL HELICAL EARTH ANCHOR AND THEIR CONNECTIONS TO THE STRUCTURE.

C. HELICAL EARTH ANCHOR MANUFACTURER SUPPLIER SHALL SUBMIT TO THE STRUCTURAL AND GEOTECHNICAL ENGINEERS, FOR RECORD, CALCULATIONS TO SUBSTANTIATE THE DESIGN CAPACITY OF THE ANCHORS. CALCULATIONS SHALL BEAR THE SEAL OF A PROFESSIONAL GEOTECHNICAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.

D. HELICAL EARTH ANCHOR MANUFACTURE SHALL PROVIDE SHOP DRAWINGS INDICATING THE LAYOUT, ANTICIPATED DEPTH/LENGTH, AND ANCHORAGE DETAILS TO THE STRUCTURAL AND GEOTECHNICAL ENGINEERS FOR THEIR RECORDS.

E. SITE TESTS:
1. LOAD TEST PROCEDURES (ASTM D1143, ASTM D3689): A SITE LOAD TEST SHALL BE PREFORMED ON ONE ANCHOR, OF THE TYPE TO BE USED AT THE PILE CAPS, BY AN INDEPENDENT TESTING AGENCY ACCEPTABLE TO THE ARCHITECT. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADDITIONAL ANCHORS, MATERIALS, LABOR, AND EQUIPMENT AS REQUIRED TO TEST THE ANCHOR. THE TESTED ANCHOR SHALL BE ABANDONED. TEST ANCHOR IN COMPRESSION AND TENSION.

2. ACCEPTANCE CRITERIA: TESTED ANCHOR SHALL RESIST A LOAD OF 40 KIPS IN TENSION AND 5 KIPS IN COMPRESSION. TOP OF ANCHOR SHALL NOT MOVE VERTICALLY FROM AT REST POSITION MORE THAN 1" AT 100 KIP LOADING.

3.4 ALL FOUNDATION BEARING SURFACES SHALL BE REVIEWED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE TO ENSURE THEIR COMPLIANCE WITH PRESSURES NOTED. ALL FOOTING ELEVATIONS ARE ESTIMATED AND MAY BE ADJUSTED IN THE FIELD BY THE GEOTECHNICAL ENGINEER.

3.5 COMPACTED FILL WITHIN THE BUILDING AREA (AND EXTENDING 10'-0" OUTSIDE THE EXTERIOR BUILDING LINE) SHALL MEET THE REQUIREMENTS NOTED IN THE GEOTECHNICAL REPORT.

3.6 BACKFILL FOR FOUNDATION AND RETAINING WALLS SHALL BE A FREE DRAINING GRANULAR MATERIAL, SUCH AS SIZE #57 STONE. BACKFILL SHALL BE COMPACTED SUFFICIENTLY TO PREVENT SUBSIDENCE OF SURFACE ADJACENT TO WALL. THE GRANULAR MATERIAL SHALL BE PLACED IN A 45 DEGREE WEDGE EXTENDING FROM THE BASE OF THE FOOTING TO WITHIN 18" OF FINSH GRADE ON EXTERIOR AND TO UNDERSIDE OF SLAB ON INTERIOR.

3.7 GRANULAR BACKFILL SUPPORTING A FOOTING SHALL BE COMPACTED UNDER THE DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER OR HIS APPROVED REPRESENTATIVE. PROVIDE A 12" THICK CAP OF PROPERLY COMPACTED CRUSH AND RUN STONE BETWEEN THE FOOTING AND THE PROPERLY COMPACTED GRANULAR BACKFILL. EXTEND CRUSH AND RUN CAP TWO FEET BEYOND THE PERIMETER OF THE FOOTING OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER.

3.8 FOUNDATION AND RETAINING WALLS SHALL NOT BE BACKFILLED UNTIL CONCRETE HAS ATTAINED THE REQUIRED 28 DAY COMPRESSIVE STRENGTH.

3.9 DO NOT PLACE BACKFILL AGAINST FOUNDATION WALLS UNTIL UPPER BRACING FLOORS ARE IN PLACE FOR AT LEAST SEVEN DAYS AND HAVE ATTAINED 75% OF DESIGN STRENGTH.

3.10 REINFORCING STEEL IN CONTINUOUS WALL FOOTINGS SHALL EXTEND THRU SPREAD FOOTINGS AT THE SAME ELEVATION AS WALL FOOTING. STEP WALL FOOING DOWN ON SPREAD FOOTING WHERE SPREAD FOOTING IS BELOW CONTINUOUS WALL FOOTING.

3.11 SUBGRADE AND GRANULAR FILL SUPPORTING SLABS ON GRADE SHALL BE AS RECOMMENDED BY THE GEOTECHNICAL REPORT AND COMPACTED UNDER THE DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER OR HIS APPROVED REPRESENTATIVE. SEE SPECIFICATIONS FOR VAPOR RETARDER BENEATH SLABS ON GRADE.

3.12 GRANULAR FILL BENEATH SLABS, UNLESS NOTED OTHERWISE, SHALL BE 4" COMPACTED #57 STONE.

3.13 VAPOR RETARDER BENEATH SLABS ON GRADE, UNLESS NOTED, SHALL MEET ASTM E 1745, CLASS A, 15 MIL MINIMUM THICKNESS WITH MANUFACTURER'S RECOMMENDED ADHESIVE OR PRESSURE-SENSITIVE TAPE AND PIPE BOOTS, SUCH AS W.R. MEADOWS INC. PRODUCT PERMINATOR 15.

3.14 NO EXCAVATION SHALL BE CLOSER THAN AT A SLOPE OF 2:1 (TWO HORIZONTAL TO ONE VERTICAL) TO A FOOTING.

4.0 CONCRETE

4.1 CONCRETING OPERATIONS SHALL COMPLY WITH ACI STANDARDS.

4.2 CONCRETE STRENGTH AND DURABILITY REQUIREMENTS -- MINIMUM CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS (PSI), TYPE OF CONCRETE, MAXIMUM WATER/CEMENTITIOUS RATIO, AIR CONTENT, SLUMP, AND CONCRETE USE:

STRENGTH	TYPE	MAX W/C	AIR	SLUMP	USE
3000	NORMAL WT.	0.57	----	3" TO 5"	FOOTINGS
3500	NORMAL WT.	0.50	----	3" TO 5"	SLABS ON GRADE
4000	NORMAL WT.	0.45	4-6%	3" TO 5"	UNLESS NOTED

A. CONCRETE MIX DESIGN SHALL BE WORKABLE WITH LOWEST TOTAL WATER PER CUBIC YARD USING LARGEST PRACTICAL MAXIMUM SIZE OF COURSE AGGREGATE.

4.3 REINFORCING BARS: ASTM A615 GRADE 60.

4.4 WATERSTOPS: FLEXIBLE PVC WATERSTOPS, CE CRD-C 572 UNLESS NOTED OTHERWISE, WITH FACTORY-INSTALLED METAL EYELETS, FOR EMBEDDING IN CONCRETE TO PREVENT PASSAGE OF FLUIDS THROUGH JOINTS. FACTORY FABRICATE CORNERS, INTERSECTIONS, AND DIRECTIONAL CHANGES. ACCEPTABLE MANUFACTURER IS THE GREENSTREAK GROUP, INC, 800-325-9504, OR EQUAL. PROFILE SHALL BE FLAT, DUMBBELL WITH CENTER BULB WITH DIMENSIONS OF 6 INCHES BY 3/8 INCH THICK.

A. FLEXIBLE WATERSTOP INSTALLATION: INSTALL IN CONSTRUCTION JOINTS AND AT OTHER JOINTS INDICATED TO FORM A CONTINUOUS DIAPHRAGM. INSTALL IN LONGEST LENGTHS PRACTICABLE. SUPPORT AND PROTECT EXPOSED WATERSTOPS DURING PROGRESS OF THE WORK.

4.5 REINFORCING STEEL SHOWN IN SECTIONS AND DETAILS ARE A SCHEMATIC INDICATION THAT REINFORCING EXISTS. SEE SCHEDULES, SECTION NOTES AND GENERAL NOTES FOR ACTUAL REINFORCING REQUIRED.

4.6 REINFORCING BAR PLACING ACCESSORIES IN ACCORDANCE WITH ACI MANUAL OF STANDARD PRACTICE. WHERE CONCRETE IS EXPOSED IN FINISHED BUILDING, PROVIDE ACCESSORIES WITH RUSTPROOF LEGS. WHERE CONCRETE IS SAND-BLASTED OR BUSH-HAMMERED, PROVIDE ACCESSORIES OF STAINLESS STEEL.

4.7 DETAIL REINFORCEMENT IN ACCORDANCE WITH ACI 315. REINFORCEMENT SHALL NOT BE WELDED UNLESS NOTED OR APPROVED BY THE ENGINEER.

4.8 ALL SPLICES SHALL BE CLASS "B" TENSION LAP SPLICE, UNLESS NOTED.

4.9 ALL REINFORCING MARKED "CONT." INDICATES REINFORCING SHALL BE "CONTINUOUS" AND SHALL BE SPLICED WITH CLASS "B" TENSION LAP SPLICE, UNLESS NOTED.

4.10 PROVIDE CORNER BARS AT ALL CORNERS OF CONTINUOUS REINFORCING IN FOOTINGS, SLABS OR WALLS. CORNER BARS SHALL BE LONG ENOUGH TO PROVIDE A CLASS "B" LAP SPLICE OF REINFORCING BARS.

4.11 CONCRETE COVERAGE OF REINFORCEMENT, UNLESS NOTED:

FOOTINGS----------2" TOP & 3" BOTTOM & SIDES
FOUNDATION RETAINING WALLS----------2" BOTH FACES
SUMP AND PIT WALLS----------3" BOTH FACES

NOTE: SLAB ON GRADE WWR OR REINFORCEMENT EACH WAY SHALL BE 2" CLEAR FROM TOP OF SLAB. SEE EARTH SUPPORTED SLABS SECTION BELOW.

4.12 WALL VERTICAL REINFORCING: DOWEL TO FOUNDATION WITH HOOKED BARS OF SAME SIZE AND SPACING AS VERTICAL REINFORCING.

4.13 WELDED WIRE REINFORCEMENT (WWR): ASTM A185. MINIMUM LAP AND EMBEDMENT TO BE THE GREATER OF ONE CROSS WIRE SPACING PLUS 2 INCHES OR 6 INCHES.

4.14 EARTH SUPPORTED SLABS:

4" THICK (UNLESS NOTED), REINFORCED WITH 6X6 W2.9/W2.9 WWR FLAT SHEETS SUPPORTED 2" CLEAR OF TOP OF SLAB, UNLESS NOTED. WWR TO BE CHAIRED AT 36 INCHES EACH WAY MINIMUM. SEE FOUNDATION NOTES FOR SUBGRADE REQUIREMENTS.

PROVIDE CONTROL AND CONSTRUCTION JOINTS AT MAXIMUM OF 3-4 TIMES SLAB THICKNESS IN FEET OR AS REQUIRED TO PREVENT UNCONTROLLED CRACKING PER ACI RECOMMENDATIONS. AS AN EXAMPLE, FOR A 4" THICK SLAB, PROVIDE JOINTS SPACED 12 - 16 FEET MAXIMUM. PANELS TO BE RECTANGULAR WITH LONG SIDE NOT TO EXCEED 1-1/2X SHORT SIDE. CUTTING SHOULD BE STARTED AS SOON AS CONCRETE HAS HARDENED SUFFICIENTLY TO PREVENT AGGREGATE FROM BEING DISLODGE. CONTRACTOR SUBMIT PLAN SHOWING LOCATION OF CONSTRUCTION AND CONTROL JOINTS.

FLOOR DESIGN AND CONSTRUCTION BASIS IS ACI 302 AND 360, AND IT IS UNREALISTIC TO EXPECT CRACK-FREE OR CURL-FREE FLOORS. IT IS NORMAL TO EXPECT SOME AMOUNT OF CRACKING AND CURLING IN THE SLAB ON GRADE, AND SUCH OCCURRENCE DOES NOT NECESSARILY REFLECT ADVERSELY ON EITHER THE ADEQUACY OF THE FLOOR DESIGN OR THE QUALITY OF ITS CONSTRUCTION.

EARTH SUPPORTED SLABS SHALL BE MOIST CURED FOR A MINIMUM OF SEVEN DAYS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. CURING COMPOUNDS, UNLESS NOTED, SHALL BE A MINIMUM OF CLEAR, WATERBORNE, MEMBRANE-FORMING CURING COMPOUND MEETING ASTM C 309, TYPE 1, CLASS B, SELF-DISSIPATING, CERTIFIED BY CURING COMPOUND MANUFACTURER TO NOT INTERFERE WITH BONDING OF FLOOR COVERING.

WHERE CONTROL JOINTS TERMINATE INTO NON-PARALLEL CONTROL JOINTS, PROVIDE 2#4 X 6'-0" BARS MID DEPTH OF SLAB PERPENDICULAR TO TERMINAL CONTROL JOINT.

PROVIDE 2#4 X 6'-0" BARS MID DEPTH OF SLAB AT REENTRANT CORNERS.

WHERE CONTROL JOINTS TERMINATE AT EMBEDDED STEEL ELEMENTS (SUCH AS EDGE REINFORCEMENT AT LOADING DOCKS), PROVIDE JOINT IN STEEL ELEMENT.

4.15 WALL AND SLAB OPENINGS AND SLEEVES SMALLER THAN 12" (IN LARGER DIMENSION) ARE NOT SHOWN ON PLANS. CONTRACTOR SHALL SUBMIT ALL OPENINGS (SIZE AND LOCATIONS) AS A SINGLE COORDINATED SLEEVE PLAN FOR REVIEW AND APPROVAL.

4.16 CAST IN PLACE ALL SLEEVES AND INSERTS.

4.17 NO CONDUIT OR PIPE SHALL BE CAST IN THE SLAB ON GRADE WITHOUT THE WRITTEN APPROVAL OF STRUCTURAL DESIGN GROUP.

5.0 STRUCTURAL STEEL

5.1 FABRICATE AND ERECT ALL STRUCTURAL STEEL IN ACCORDANCE WITH AISC "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".

5.2 THE STEEL FRAME IS "NON-SELF-SUPPORTING". ADEQUATE TEMPORARY SUPPORT MUST BE PROVIDED BY THE CONTRACTOR UNTIL REQUIRED CONNECTIONS OR ELEMENTS ARE IN PLACE.

5.3 STRUCTURAL STEEL: ASTM A992 FOR WIDE FLANGE BEAMS AND COLUMNS; ASTM A36 FOR ALL OTHER SHAPES

5.4 WELDED CONNECTIONS: E70XX ELECTRODES, MINIMUM SIZE FILLET WELD 3/16". WELDING QUALIFICATION, PROCEDURES AND PERSONNEL SHALL BE CERTIFIED ACCORDING TO AWS D1.1, THE STRUCTURAL WELDING CODE - STEEL.

5.5 THREADED AND PLAIN STEEL RODS: ASTM A36.

5.6 HEADED STUDS: TYPE B SHEAR STUD CONNECTORS MADE FROM ASTM A108, GRADE 1015 OR 1020, COLD-FINISHED CARBON, AND COMPLYING WITH AWS D1.1.

5.7 CONNECTIONS:

A. BEARING TYPE A325-N IN ACCORDANCE WITH RCSC (LRFD OR ASD VERSION) "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS". BOLTS THROUGH 4" WIDE BEAM FLANGES SHALL BE 5/8" DIAMETER. OTHER BOLTS SHALL BE 3/4" DIAMETER. USE FULL DEPTH DOUBLE SHEAR TAB CONNECTIONS.

5.8 ALL STEEL EXPOSED TO WEATHER, INCLUDING STEEL LINTELS FOR MASONRY OPENINGS SHALL BE HOT DIP GALVANIZED

5.9 ALL HANDRAILS, GUARDRAILS, AND EMBEDS NOT SPECIFICALLY DETAILED ON THE DRAWINGS SHALL BE DESIGNED IN ACCORDANCE WITH THE APPLICABLE BUILDING CODE NOTED ABOVE, BY THE CONTRACTOR, UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. CALCULATIONS SHALL BEAR THE SEAL OF THE PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED AND SHALL BE SUBMITTED FOR THE FILES OF THE ARCHITECT AND SHALL BE INCLUDED WITH THE SHOP DRAWINGS.

6.0 STEEL DECK

6.1 DECK PROPERTIES AND ATTACHMENTS SHALL BE IN ACCORDANCE WITH THE STEEL DECK INSTITUTE.

6.2 DECK SHALL BE CONTINUOUS OVER THREE OR MORE SPANS. WHERE DECK SPANS LESS THAN THREE SPANS ARE REQUIRED, THEY SHOULD BE CLEARLY MARKED ON THE SHOP DRAWINGS.

6.3 DECK SHALL BE CONNECTED TO SUPPORTING STRUCTURE AS SHOWN IN SECTIONS AND/OR PLAN NOTES. PROVIDE A MINIMUM OF 5/8" DIAMETER PUDDLE WELDS AT 6".

6.4 COLD-FORMED STEEL FRAMING, SUSPENDED CEILINGS, LIGHT FIXTURES, DUCTS, PIPING, AND/OR OTHER UTILITIES SHALL NOT BE SUPPORTED BY THE STEEL ROOF DECK.

6.5 DECK SIZE, TYPE AND SPACING SHALL BE AS INDICATED IN THE PLAN NOTES OR SECTIONS.

7.0 MASONRY

7.1 MASONRY CONSTRUCTION SHALL CONFORM TO ACI 530.1-16 SPECIFICATION.

7.2 ALL MASONRY MATERIALS AND CONSTRUCTION SHALL COMPLY WITH THE RECOMMENDATIONS OF BRICK INSTITUTE OF AMERICA (BIA) AND NATIONAL CONCRETE MASONRY ASSOCIATION (NCMA) AND MINIMUM REQUIREMENTS ESTABLISHED BY THE LOCAL BUILDING CODE.

7.3 MINIMUM COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNIT (f'm) SHALL BE 2000 PSI AT 28 DAYS.

7.4 NET COMPRESSIVE STRENGTH FOR EACH CMU UNIT SHALL MEET OR EXCEED 2000 PSI AT 28 DAYS. FOR TYPE N MORTAR, NET COMPRESSIVE STRENGTH FOR BLOCK SHALL BE GREATER THAN 2650 PSI.

7.5 ALL MASONRY SHALL BE NORMAL WEIGHT IN ACCORDANCE WITH ASTM C90.

7.6 GROUT COMPRESSIVE STRENGTH SHALL BE 2500 PSI AT 28 DAYS. GROUT SHALL ADDITIONALLY COMPLY WITH TABLE 7 OF ACI 530.1/ASCE 6/TMS 602 FOR DIMENSIONS OF GROUT SPACES AND POUR HEIGHTS. COURSE GROUT SHALL BE USED WHERE POSSIBLE.

7.7 MORTAR SHALL BE TYPE S OR M. TYPE N MORTAR ALLOWED ONLY IF THE CMU NET COMPRESSIVE STRENGTH IS GREATER THAN 2650 PSI.

7.8 ALL MASONRY SHALL BE STACK BOND, UNLESS NOTED.

7.9 ALL BLOCK CELLS AND CAVITIES BELOW GRADE SHALL BE FILLED WITH CONCRETE OR GROUT.

7.10 MASONRY REINFORCING LAP SPLICE LENGTHS SHALL BE 72 BAR DIAMETERS

7.11 THE CONTRACTOR SHALL PROVIDE DETAILED SHOP DRAWINGS OF THE CMU REINFORCEMENT.

A. SHOP DRAWINGS SHALL INCLUDE AN ELEVATION VIEW OF EACH REINFORCED WALL WITH ALL VERTICAL AND HORIZONTAL REINFORCING AS WELL AS WALL OPENINGS/PENETRATIONS SHOWN. REINFORCING SHOP DRAWINGS NOT CONTAINING THESE ELEVATION DRAWINGS WILL BE RETURNED AS AN INCOMPLETE SUBMITTAL.

7.12 MODIFY CMU BLOCKS AS REQUIRED TO INSTALL REINFORCING AS NOTED / SHOWN.

7.13 WHEN REINFORCING IS SPECIFIED, PROVIDE AT EACH SIDE OF CONTROL JOINTS, OPENINGS AND WALL ENDS.

7.14 EXTEND REBAR AT WALL OPENINGS A MINIMUM OF 2'-0" PAST THE OPENING AT ALL CORNERS, UNLESS NOTED. AT WINDOWS, PROVIDE A MINIMUM OF 2#4 BARS AT THE SILL OF THE WINDOWS.

7.15 GROUT SHALL COMPLY WITH TABLE 7 OF ACI 530.1/ASCE 6/TMS 602 FOR DIMENSIONS OF GROUT SPACES AND POUR HEIGHTS. USE COURSE GROUT FOR OPENINGS LARGER THAN 4" OTHERWISE USE TYPE FINE GROUT. MINIMUM COMPRESSIVE STRENGTH FOR GROUT SHALL BE 2,500PSI AT 28 DAYS.

LATHAN ARCHITECTS

NEW ELEVATOR FOR
LOCUST FORK ELEMENTARY SCHOOL
155 School Road Locust Fork, AL 35097
BLOUNT COUNTY BOARD OF EDUCATION

ALABAMA REGISTERED No. 22596 PROFESSIONAL ENGINEER CRAIG W. LINN
H. Craig Linn, P.E.
8-28-2024

SHEET TITLE:
GENERAL NOTES

PROJ. MGR.: HCW
DRAWN: ABS
DATE: AUGUST 28, 2024
REVISIONS

JOB NO. 24-39
SHEET NO:
S1.0
1 OF 6

0 1" 2"

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Job Number 24-120

GENERAL NOTES CONTINUED

7.16 PROVIDE HORIZONTAL JOINT REINFORCING IN REINFORCED MASONRY WALLS AS DIRECTED BY THE ARCHITECT. AT WALL CORNERS AND INTERSECTIONS, PROVIDE PREFABRICATED T AND L SHAPES, FIELD BENDING IS NOT PERMITTED. MINIMUM OF LADDER TYPE ZINC COATED CONFORMING TO ASTM A82 HOHMANN & BARNARD 220 LADDER-MESH OR EQUIVALENT AT EVERY OTHER BLOCK COURSE ABOVE FOOTING. REINFORCEMENT SHOULD CONSIST OF TWO OR MORE LONGITUDINAL WIRES, NO. 9 GAUGE OR LARGER, WELDED WITH NO. 9 GAUGE OR LARGER CROSS WIRES. LAP SPLICE HORIZONTAL JOINT REINFORCING A MINIMUM OF 12".

7.17 PROVIDE DOVETAIL ANCHORS AT 16" O/C, UNLESS NOTED OTHERWISE, WHERE MASONRY WALLS ABUT CONCRETE SURFACES.

7.18 WHERE MASONRY WALLS SUPPORT EARTH ON BOTH SIDES, BACKFILL EACH SIDE SIMULTANEOUSLY.

7.19 CONDUITS, REFRIGERANT PIPING (WITH ANY REQUIRED INSULATION INCLUDED), CONDENSATE DRAIN LINES, ETC. UP TO 2" IN OUTSIDE DIAMETER MAY EXTEND CONT THRU MASONRY WALLS & BOND BEAMS. COORDINATE WITH MECHANICAL, ELECTRICAL, PLUMBING, ETC. DRAWINGS FOR SIZE AND LOCATION. DO NOT INTERRUPT CONTINUOUS REINFORCING STEEL IN PLACEMENT OF CONDUITS, PIPING, DRAIN LINES, ETC.

7.20 THE MASONRY WALLS ARE "NON-SELF-SUPPORTING". ADEQUATE TEMPORARY SUPPORT MUST BE PROVIDED BY THE CONTRACTOR UNTIL REQUIRED CONNECTIONS OR ELEMENTS ARE IN PLACE. BRACING SHALL BE PER THE FOLLOWING, AND CONTRACTOR SHALL PROVIDE ADDED REINFORCING AND GROUT IF REQUIRED BY THE BRACING.

A. THE "2012 STANDARD PRACTICE FOR BRACING MASONRY WALLS UNDER CONSTRUCTION".
B. THE "MASONRY WALL BRACING HANDBOOK" AS PUBLISHED BY THE MASONRY CONTRACTORS ASSOCIATION OF AMERICA (MCAA) SHOULD BE USED IN CONJUNCTION WITH THE "STANDARD PRACTICE".

8.0 POST-INSTALLED REINFORCING, ANCHORS AND FASTENERS

8.1 POST-INSTALLED ANCHORS AND/OR REINFORCING SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER-OF-RECORD PRIOR TO INSTALLING POST-INSTALLED ANCHORS AND/OR REINFORCING IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS AND/OR REINFORCING.

8.2 THE BELOW PRODUCTS ARE THE DESIGN BASIS FOR THIS PROJECT. PRODUCT DIAMETER AND EMBEDMENT SHALL BE SHOWN IN THE DETAILS.

8.3 FOR ANCHORING INTO CONCRETE:

A. MECHANICAL ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193 FOR CRACKED CONCRETE AND SEISMIC APPLICATIONS. PRE-APPROVED PRODUCTS INCLUDE:

1. SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-2713 & IAPMO-UES ER-493)
2. SIMPSON STRONG-TIE "STRONG-BOLT 2" (ICC-ES ESR-3037)
3. SIMPSON STRONG-TIE "TITEN-HD ROD HANGER" (ICC-ES ESR-2713)
4. SIMPSON STRONG-TIE "TITEN TURBO" (IAPMO-UES ER-712) - FOR UNCRACKED CONCRETE ONLY
5. HILTI KWIK HUS-EZ (KH-EZ), KH-EZ CRC, KH-EZ SS316, KH-EZ C, KH-EZ E, KH-EZ-I, AND KH-EZ P SCREW ANCHOR SAFE SET SYSTEM WITH HOLLOW DRILL BIT AND VACUUM (ICC ESR-3027)
6. HILTI KWIK BOLT-TZ2 EXPANSION ANCHOR SAFE SET SYSTEM WITH HOLLOW DRILL BIT AND VACUUM AND SI-AT-A22 TOOL WITH ADAPTIVE TORQUE FOR APPLICABLE SIZES (ICC ESR-4266)
7. HILTI KWIK BOLT 1 EXPANSION ANCHOR SAFE SET SYSTEM WITH HOLLOW DRILL BIT AND VACUUM AND SI-AT-A22 TOOL WITH ADAPTIVE TORQUE FOR APPLICABLE SIZES (ICC ESR-678)
8. HILTI HDA UNDERCUT ANCHORS (ICC ESR 1546)
9. HILTI HSL-3 EXPANSION ANCHORS (ICC ESR 1545)
10. DEWALT SCREW-BOLT+ (ICC-ES ESR-3889)
11. DEWALT POWER-STUD+ SD2 (ICC-ES ESR-2502)
12. DEWALT POWER-STUD SD1 (ICC-ES ESR-2818)
13. DEWALT HANGERMATE+ (ICC-ES ESR-3889)
14. DEWALT CCU+ UNDERCUT (ICC-ES ESR-4810)
15. DEWALT POWER-BOLT+ (ICC-ES ESR-3260)

B. ADHESIVE FOR REBAR AND ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 355.4 AND ICC-ES AC308 FOR CRACKED CONCRETE AND SEISMIC APPLICATIONS. DESIGN ADHESIVE BOND STRENGTH HAS BEEN BASED ON ACI 355.4 TEMPERATURE CATEGORY B WITH INSTALLATIONS INTO DRY HOLES DRILLED USING A CARBIDE DRILL BIT INTO CRACKED CONCRETE THAT HAS CURED FOR AT LEAST 21 DAYS. ADHESIVE ANCHORS REQUIRING CERTIFIED INSTALLATIONS, SUCH AS HORIZONTAL TO UPWARD INCLINED ORIENTATION UNDER SUSTAINED TENSION LOADING, SHALL BE INSTALLED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER PER ACI 318-11 D.9.2.2. INSTALLATIONS REQUIRING CERTIFIED INSTALLERS SHALL BE INSPECTED PER ACI 318-11 D.9.2.4. PRE-APPROVED PRODUCTS INCLUDE:

1. SIMPSON STRONG-TIE "SET-3G" (ICC-ES ESR-4057)
2. SIMPSON STRONG-TIE "AT-XP" (IAPMO-UES ER-263)
3. SIMPSON STRONG-TIE "SET-XP" (ICC-ES ESR-2508)
4. HILTI HIT-HY 200 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT AND VACUUM WITH CONTINUOUSLY DEFORMED REBAR (ICC ESR-3187)
5. HILTI HIT-RE 500 V3 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT AND VACUUM WITH CONTINUOUSLY DEFORMED REBAR (ICC ESR-3814)
6. DEWALT PURE110+ FOR WARM WEATHER/SLOW CURE (ICC-ES ESR-3298); FOR ANCHORS AND REBAR: WHEN DEWALT DUSTX+ EXTRACTION SYSTEM IS USED, TRADITIONAL HOLE CLEANING METHODS USING STEEL BRUSHES AND COMPRESSED DRY AIR MAY BE COMPLETELY OMITTED PER ICC-ES ESR-3298
7. DEWALT AC200+ FOR COLD WEATHER/RAPID CURE (ICC-ES ESR-4027); FOR ANCHORS AND REBAR: WHEN DEWALT DUSTX+ EXTRACTION SYSTEM IS USED, TRADITIONAL HOLE CLEANING METHODS USING STEEL BRUSHES AND COMPRESSED DRY AIR MAY BE COMPLETELY OMITTED PER ICC-ES ESR-4027

8.4 FOR ANCHORING INTO MASONRY:

A. SOLID-GROUTED CONCRETE MASONRY

1. MECHANICAL ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC01 OR ICC-ES AC106. PRE-APPROVED PRODUCTS INCLUDE:

a. SIMPSON STRONG-TIE "TITEN-HD" & "STAINLESS STEEL TITEN HD" (ICC-ES ESR-1056)
b. SIMPSON STRONG-TIE "STRONG-BOLT 2" (IAPMO-UES ER-240)
c. SIMPSON STRONG-TIE "WEDGE-ALL" (ICC-ES ESR-1396)
d. SIMPSON STRONG-TIE "TITEN TURBO" (IAMPO-UES ER-716)
e. HILTI KH-EZ, KH-EZ CRC, KH-EZ SS316, KH-EZ C, AND KH-EZ P SCREW ANCHORS (ICC ESR-3056)
f. HILTI KWIK BOLT-1 EXPANSION ANCHOR (ICC ER-677)
g. HILTI KWIK BOLT-TZ2 EXPANSION ANCHOR (ICC ESR-4561)
h. DEWALT "SCREW-BOLT+" (ICC-ES ESR 4042)
i. DEWALT "POWER-STUD+ SD1" (ICC-ES ESR 2966)

2. ADHESIVE FOR REBAR AND ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC58. PRE-APPROVED PRODUCTS INCLUDE:

a. SIMPSON STRONG-TIE "AT-XP" (IAPMO-UES ER-281)
b. SIMPSON STRONG-TIE "SET-XP" (IAPMO-UES ER-265)
c. HILTI HIT-HY 270 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT AND VACUUM (ICC ESR-4143); STEEL ANCHOR ELEMENT SHALL BE HILTI-HAS CONTINUOUSLY THREADED ROD OR CONTINUOUSLY DEFORMED STEEL REBAR
d. DEWALT AC100+ GOLD (ICC-ES ESR-3200)

8.5 REFER TO THE PROJECT BUILDING CODE AND/OR EVALUATION REPORT FOR SPECIAL INSPECTIONS AND PROOF LOAD REQUIREMENTS.

8.6 SUBSTITUTION REQUESTS FOR PRODUCTS OTHER THAN THOSE LISTED MAY BE SUBMITTED BY THE CONTRACTOR TO THE EOR FOR REVIEW NO LESS THAN TWO WEEKS PRIOR TO BID. SUBSTITUTIONS WILL ONLY BE CONSIDERED FOR PRODUCTS HAVING A RESEARCH REPORT RECOGNIZING THE PRODUCT FOR THE APPROPRIATE APPLICATION UNDER THE PROJECT BUILDING CODE. SUBSTITUTION REQUESTS SHALL INCLUDE CALCULATIONS PREPARED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATE THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE EQUIVALENT. ADHESIVE ANCHOR EVALUATION WILL ALSO CONSIDER CREEP, IN-SERVICE TEMPERATURE, AND INSTALLATION TEMPERATURE.

8.7 INSTALL ANCHORS PER THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII), OR AS INCLUDED IN THE ANCHOR PACKAGING.

8.8 THE CONTRACTOR SHALL ARRANGE FOR AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.

8.9 THE CONTRACTOR SHALL COORDINATE WITH THE OWNER'S SPECIAL INSPECTION AGENCY FOR CONTINUOUS SPECIAL INSPECTION OF ADHESIVE ANCHORS AND PERIODIC INSPECTION OF MECHANICAL ANCHORS, SEE SPECIAL INSPECTION SCHEDULE FOR ADDITIONAL INFORMATION.

8.10 ANCHOR CAPACITY IS DEPENDANT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.

8.11 EXISTING REINFORCING BARS AND/OR CONDUIT IN THE CONCRETE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS AND/OR REINFORCING TO AVOID CONFLICTS WITH EXISTING REBAR AND/OR CONDUIT. UNLESS NOTED ON THE DRAWINGS THAT THE BARS CAN BE CUT, THE CONTRACTOR SHALL REVIEW THE EXISTING STRUCTURAL DRAWINGS AND SHALL UNDERTAKE TO LOCATE THE POSITION OF THE REINFORCING BARS AT THE LOCATIONS OF THE CONCRETE ANCHORS, BY GPR, X-RAY, HILTI PS 1000 X-SCAN, CHIPPING, OR OTHER MEANS.

9.0 ELEVATOR

9.1 CONTRACTOR PROVIDE W8x28 ELEVATOR HOIST BEAM WITH 3/8" x 7 1/2" x 7 1/2" BEARING PLATE EACH END. FASTEN BEARING PLATE TO CMU WITH (2) 5/8" DIAMETER 5" HEADED STUDS. TOP OF HOIST BEAM TO BE (MINIMUM) 2" CLEAR FROM BOTTOM OF ROOF FRAMING. FILL CELLS UNDER BEARING FOR 32" MIN. DEPTH. POSITION AS REQUIRED BY ELEVATOR MANUFACTURER. COORDINATE ELEVATION WITH ELEVATOR RUN BY REQUIREMENT.

9.2 CONTRACTOR FILL ALL CELLS WITH GROUT OR CONCRETE AT ANY ELEVATOR ATTACHMENT POINT. COORDINATE EXACT LOCATIONS WITH ELEVATOR MANUFACTURER AND/OR SUPPLIER.

9.3 IF FRONT OF ELEVATOR SHAFT IS TO BE OMITTED AT BASE FOR ELEVATOR INSTALLATION, CONTRACTOR PROVIDE (MINIMUM) 32" DEEP BOND BEAM REINFORCED WITH 4 LAYERS OF 2#7 CONTINUOUS AND #4 TIES @8 WITH 180 DEGREE HOOK AT EACH END OF THE TIES. ALTERNATE TIE DIRECTION.

9.4 ANY ADDITIONAL STEEL REQUIRED FOR ELEVATOR INSTALLATION (SAFETY BEAMS, CLIPS, EMBEDS, ETC.) SHALL BE PROVIDED BY THE ELEVATOR MANUFACTURER AND INCLUDED IN THEIR ORIGINAL PRICE TO THE CONTRACTOR. CONTRACTOR COORDINATE INSTALLATION WITH ELEVATOR MANUFACTURER.

9.5 CONTRACTOR COORDINATE HOIST BEAM [AND SEPARATOR BEAM] ELEVATION WITH ELEVATOR MANUFACTURER.

LATHAN ARCHITECTS

NEW ELEVATOR FOR
LOCUST FORK ELEMENTARY SCHOOL
155 School Road Locust Fork, AL 35097
BLOUNT COUNTY BOARD OF EDUCATION

ALABAMA REGISTERED No. 22596 PROFESSIONAL ENGINEER H. CRAIG WINN P.E.
8-28-2024

SHEET TITLE:
GENERAL NOTES CONTINUED

PROJ. MGR.:	HCW
DRAWN:	ABS
DATE:	AUGUST 28, 2024
REVISIONS	

JOB NO. 24-39
SHEET NO:
S1.1
2 OF 6

0 1" 2"

SDG
STRUCTURAL DESIGN GROUP
300 Chase Park South, Suite 125
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tel 205-824-5200
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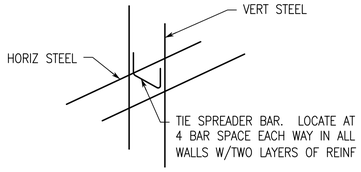
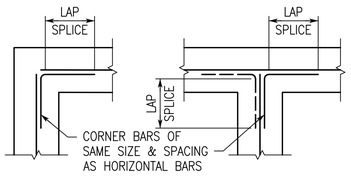
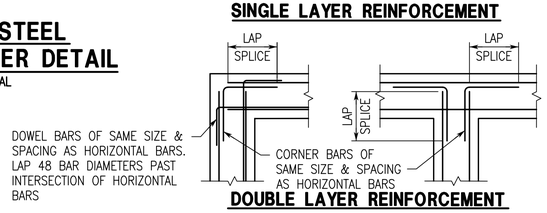
Job Number 24-120



WALL STEEL TIE-SPREADER DETAIL
TYPICAL

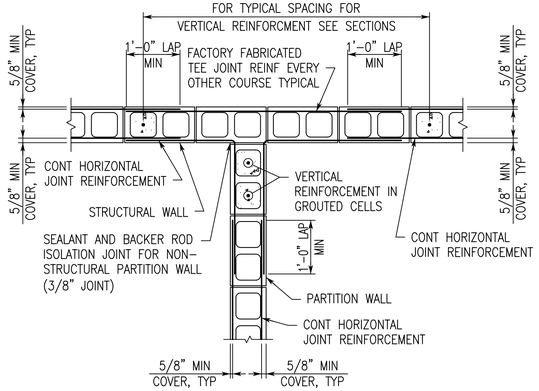


SINGLE LAYER REINFORCEMENT



DOUBLE LAYER REINFORCEMENT
NOTE: ALL LAP SPLICES CLASS "B" TENSION

FOOTING, SLAB OR WALL CORNER REINFORCING DETAIL
TYPICAL



PARTITION WALLS ABUTTING STRUCTURAL WALLS
TYPICAL

NON-LOAD BEARING STACK BOND MASONRY LINTEL SCHEDULE

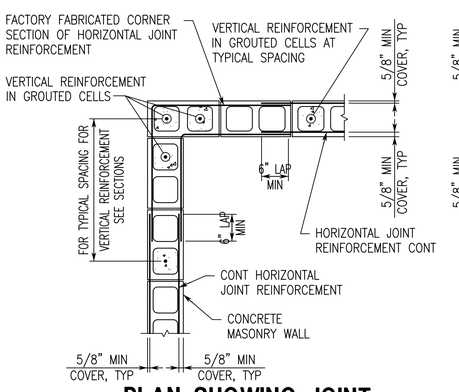
MAXIMUM OPENING WIDTH	LINTEL DIMENSIONS AND REINFORCING				
	DEPTH	8" WALL		12" WALL	
		REINFORCING	MAX HEIGHT OF WALL ABOVE LINTEL	REINFORCING	MAX HEIGHT OF WALL ABOVE LINTEL
2'-0"	8	1#4 BOT	20'-0"	1#4 BOT	22'-0"
4'-0"	8	1#4 BOT	10'-0"	2#4 BOT	9'-4"
6'-0"	8	1#5 BOT & 1#4 TOP	4'-0"	2#5 BOT & 2#4 TOP	4'-8"
8'-0"	16	1#6 BOT & 1#5 TOP	15'-4"	2#5 BOT & 2#4 TOP	16'-0"
10'-0"	16	1#7 BOT & 1#5 TOP	10'-0"	2#6 BOT & 2#4 TOP	12'-0"
12'-0"	16	1#8 BOT & 1#5 TOP	7'-4"	2#7 BOT & 2#5 TOP	10'-8"

1. DO NOT USE THIS SCHEDULE IF WALL IS LOAD BEARING SUPPORTING ANYTHING OTHER THAN WALL WEIGHT ONLY. IF WALL IS LOAD BEARING USE THE LOAD BEARING STACK BOND MASONRY LINTEL SCHEDULE.
2. PROVIDE 2'-0" MINIMUM BEARING FOR ALL LINTELS. FILL CELLS SOLID AT EACH SIDE OF OPENING AND REINFORCE WITH 1#5 BAR CONTINUOUS.
3. WHERE MAXIMUM HEIGHT OF WALL ABOVE LINTEL IS EXCEEDED, PROVIDE ADDITIONAL LINTELS EQUALLY SPACED ABOVE TO LIMIT WALL HEIGHTS ABOVE LINTEL TO THAT SHOWN IN THE TABLE ABOVE.
4. SHORE LINTEL UNTIL MORTAR AND GROUT HAVE SET AND CURED.
5. PROVIDE 8" DEEP BOND BEAM REINFORCED WITH 2#4 CONT AT BOTTOM OF ALL OPENINGS. EXTEND 2'-0" PAST OPENING ON EACH SIDE OF OPENING.

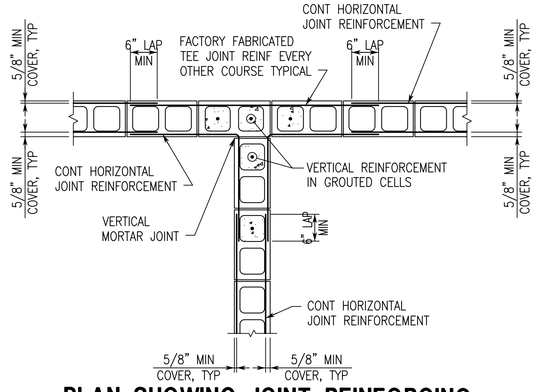
LOAD BEARING STACK BOND MASONRY LINTEL SCHEDULE

MAXIMUM OPENING WIDTH	LINTEL DIMENSIONS AND REINFORCING		
	DEPTH	8" WALL	12" WALL
4'-0"	24	2#5 BOT & 2#5 TOP	2#5 BOT & 2#5 TOP
6'-0"	32	2#5 BOT & 2#5 TOP	2#6 BOT & 2#6 TOP
8'-0"	32	2#6 BOT & 2#6 TOP	2#6 BOT & 2#6 TOP
10'-0"	48	2#6 BOT & 2#6 TOP	2#6 BOT & 2#6 TOP
12'-0"	48	2#6 BOT & 2#6 TOP	2#6 BOT & 2#6 TOP

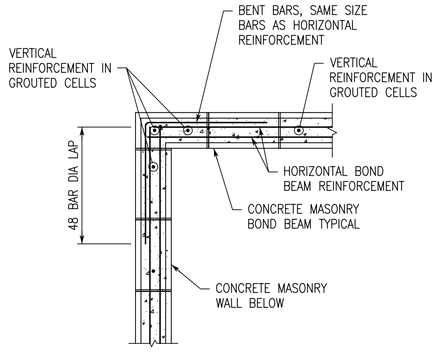
1. PROVIDE 24" MINIMUM BEARING FOR ALL LINTELS. FILL CELLS SOLID AT EACH SIDE OF OPENING AND REINFORCE WITH 1#5 BAR CONTINUOUS. (JAMB BARS OF SAME SIZE AS VERTICAL WALL REINFORCING BARS.)
2. SHORE LINTEL UNTIL MORTAR AND GROUT HAVE SET AND CURED.
3. PROVIDE 8" DEEP BOND BEAM REINFORCED WITH 2#5 CONT AT BOTTOM OF ALL OPENINGS. EXTEND 24" PAST OPENING ON EACH SIDE OF OPENING.



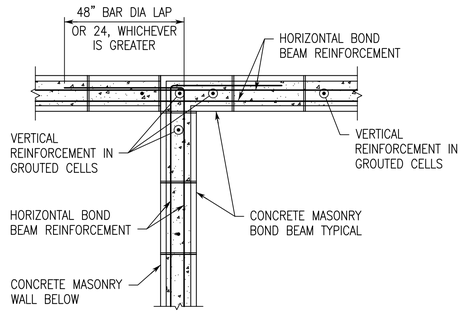
PLAN SHOWING JOINT REINFORCEMENT AT WALL CORNER
TYPICAL



PLAN SHOWING JOINT REINFORCING AT STRUCTURAL WALL INTERSECTION
TYPICAL



PLAN SHOWING BOND BEAM REINFORCEMENT AT WALL CORNER
TYPICAL



PLAN SHOWING BOND BEAM AT STRUCTURAL WALL INTERSECTION
TYPICAL

LATHAN ARCHITECTS

NEW ELEVATOR FOR
LOCUST FORK ELEMENTARY SCHOOL
155 School Road Locust Fork, AL 35097
BLOUNT COUNTY BOARD OF EDUCATION

ALABAMA REGISTERED No. 22596 PROFESSIONAL ENGINEER H. CRAIG WINN
H. Craig Winn P.E.
8-28-2024

SHEET TITLE:
TYPICAL DETAILS

PROJ. MGR.:	HCW
DRAWN:	ABS
DATE:	AUGUST 28, 2024
REVISIONS	

JOB NO. 24-39
SHEET NO:
S1.2
3 OF 6
0 1" 2"

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300 Chase Park South, Suite 125
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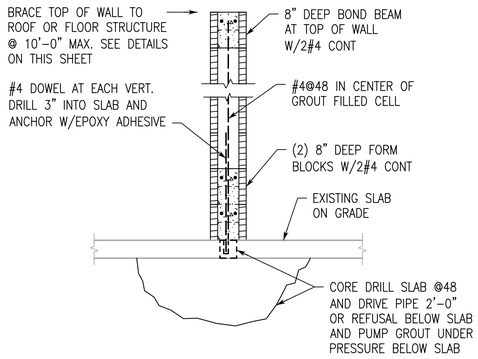
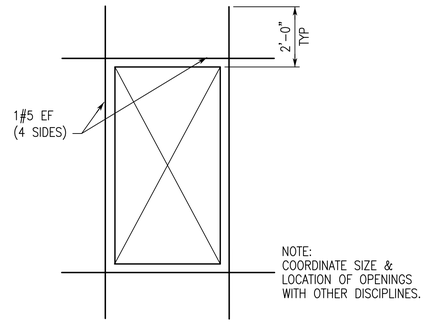
Job Number 24-120



NEW WALL BEARING ON EXISTING SLAB
TYPICAL

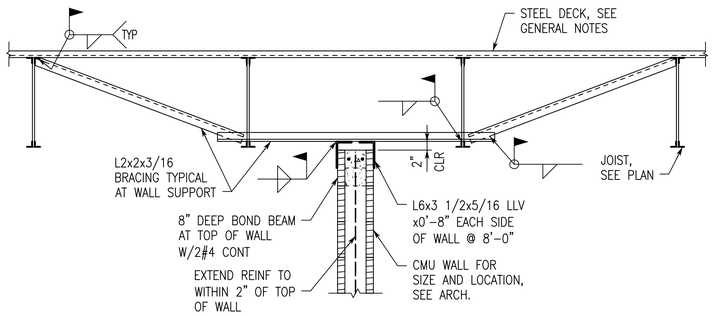


WALL OPENING REINFORCEMENT DETAIL
TYPICAL

COMPONENTS AND CLADDING WIND LOADS FOR WALLS (PSF)

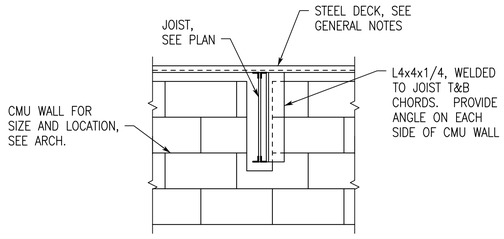
H = 23'-4" 0:12 Roof Slope	EFFECTIVE WIND AREA (FT^2)	114 MPH VELOCITY (3-SEC. GUST)		
		ZONES 4 & 5	ZONES 4 (Int.)	ZONES 5 (Edge)
	10	28.5	-30.8	-38.0
	20	27.2	-29.6	-38.8
	50	25.5	-27.1	-32.1
	100	24.3	-26.6	-29.6
	200	23.0	-25.3	-27.1
	500	21.3	-23.7	-23.7

NOTES:
1. WIDTH OF EDGE STRIP 'a' = 3'-0".
2. VALUES SHOWN ABOVE HAVE BEEN ADJUSTED FOR BUILDING HEIGHT AND EXPOSURE ACCORDING TO ASCE 7-16 STANDARD TABLE 30.3-1. VALUES SHOWN ARE ULTIMATE.
3. PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE BUILDING SURFACES.
4. EFFECTIVE WIND AREA IS THE SPAN LENGTH MULTIPLIED BY AN EFFECTIVE WIDTH THAT NEED NOT BE LESS THAN ONE-THIRD THE SPAN LENGTH.
5. WIND PRESSURES IN THESE TABLES SHALL BE MULTIPLIED BY 0.6 TO OBTAIN NOMINAL WIND PRESSURES.



CMU WALL SUPPORT DETAIL (WALL BETWEEN PARALLEL JOISTS)
INTERIOR MASONRY WALL BRACING DETAILS

PROVIDE WALL SUPPORT EACH SIDE OF WALL @ 8'-0". PROVIDE WALL SUPPORT WHERE CONTINUOUS WALL SPAN BETWEEN PERPENDICULAR WALL EXCEEDS 20'-0", UNLESS NOTED.



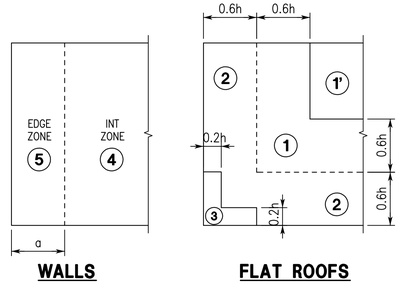
CMU WALL SUPPORT DETAIL (WALL PERPENDICULAR TO JOIST)
INTERIOR MASONRY WALL BRACING DETAILS

PROVIDE WALL SUPPORTS AT EVERY JOIST WHERE CONTINUOUS WALL SPAN BETWEEN PERPENDICULAR WALLS EXCEEDS 20'-0", UNLESS NOTED.

COMPONENTS AND CLADDING WIND LOADS FOR ROOF (PSF)

114 MPH VELOCITY (3-SEC. GUST)		ROOF					OVERHANG				
H = 23'-4" 0:12 Roof Slope	EFFECTIVE WIND AREA (FT^2)	Positive Max. Net Pressure 'p' (PSF)	Zone 1' (Int.) (PSF)	Zone 1 (Int.) (PSF)	Zone 2 (Edge) (PSF)	Zone 3 (Corner) (PSF)	Zone 1' & 1 (Int.) - Max. Net Pressure 'p' (PSF)	Zone 2 (Edge) - Max. Net Pressure 'p' (PSF)	Zone 3 (Corner) - Max. Net Pressure 'p' (PSF)		
	10	16.0	-28.5	-49.5	-65.4	-89.1	-44.8	-60.6	-84.3		
	20	16.0	-28.5	-46.3	-61.2	-80.7	-44.0	-55.0	-74.5		
	50	16.0	-28.5	-42.0	-55.6	-69.6	-43.0	-47.6	-61.6		
	100	16.0	-28.5	-38.7	-51.4	-61.2	-42.2	-42.0	-51.8		
	200	16.0	-24.5	-35.4	-47.2	-52.8	-35.4	-36.4	-42.0		
	500	16.0	-19.3	-31.1	-41.6	-41.6	-26.4	-29.0	-29.0		

NOTES:
1. WIDTH OF EDGE STRIP 'a' = 3'-0".
2. VALUES SHOWN ABOVE HAVE BEEN ADJUSTED FOR BUILDING HEIGHT AND EXPOSURE ACCORDING TO ASCE 7-16 STANDARD TABLE 30.3-1. VALUES SHOWN ARE ULTIMATE.
3. PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE BUILDING SURFACES.
4. EFFECTIVE WIND AREA IS THE SPAN LENGTH MULTIPLIED BY AN EFFECTIVE WIDTH THAT NEED NOT BE LESS THAN ONE-THIRD THE SPAN LENGTH.
5. CONSIDER 5 PSF MINIMUM DEAD LOAD FOR UPLIFT CALCULATIONS FOR ROOF FRAMING MEMBERS AND 2 PSF MINIMUM DEAD LOAD FOR UPLIFT CALCULATIONS FOR ROOF DECK.
6. WIND PRESSURES IN THESE TABLES SHALL BE MULTIPLIED BY 0.6 TO OBTAIN NOMINAL WIND PRESSURES.



WALLS FLAT ROOFS

WALL AND ROOF WIND PRESSURE ZONE DIAGRAMS
TYPICAL

LATHAN ARCHITECTS

NEW ELEVATOR FOR LOCUST FORK ELEMENTARY SCHOOL
155 School Road Locust Fork, AL 35097
BLOUNT COUNTY BOARD OF EDUCATION

ALABAMA REGISTERED No. 22596 PROFESSIONAL ENGINEER CRAIG WINN
H. Craig Winn P.E.
8-28-2024

SHEET TITLE:
TYPICAL DETAILS

PROJ. MGR.:	HCW
DRAWN:	ABS
DATE:	AUGUST 28, 2024
REVISIONS	

JOB NO. 24-39
SHEET NO:
S1.3
4 OF 6
0 1" 2"

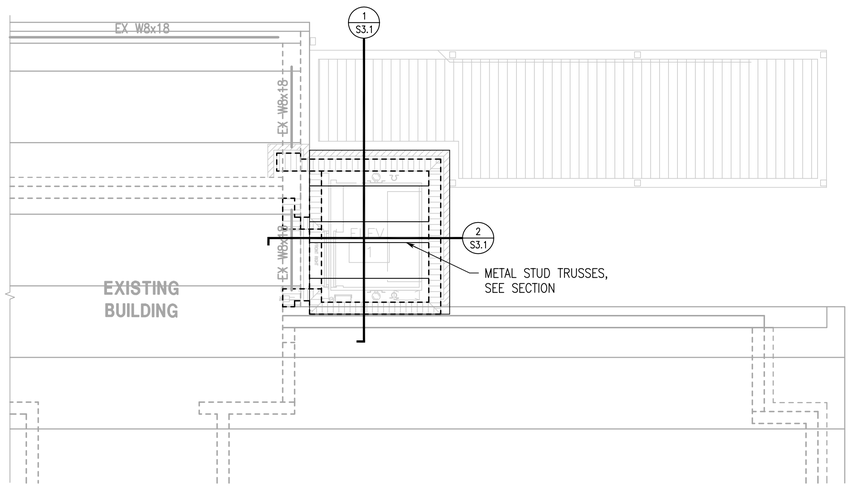
SDG
STRUCTURAL DESIGN GROUP
300 Chase Park South, Suite 125
Hoover, AL 35244
tel 205-824-5200
fax 205-824-5280
Job Number 24-120

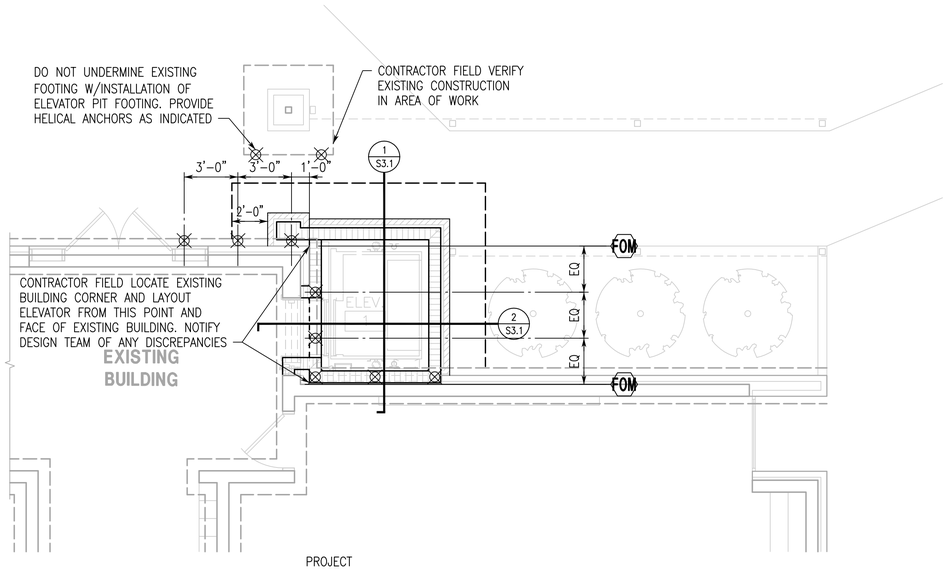
PROJECT NORTH

ROOF FRAMING PLAN

1/4"=1'-0"

1. BUILDING IS EXISTING. ELEVATOR SHAFT AND FLOOR ACCESS IS NEW.
2. TOP OF WALL, SEE ARCHITECTURAL DRAWINGS.
3. ROOF SYSTEM: METAL STUD TRUSSES SUPPORTING 1 1/2" DEEP x22 GAGE METAL DECKING. ANCHOR DECKING TO TRUSS WITH #12 SCREWS AT 6".



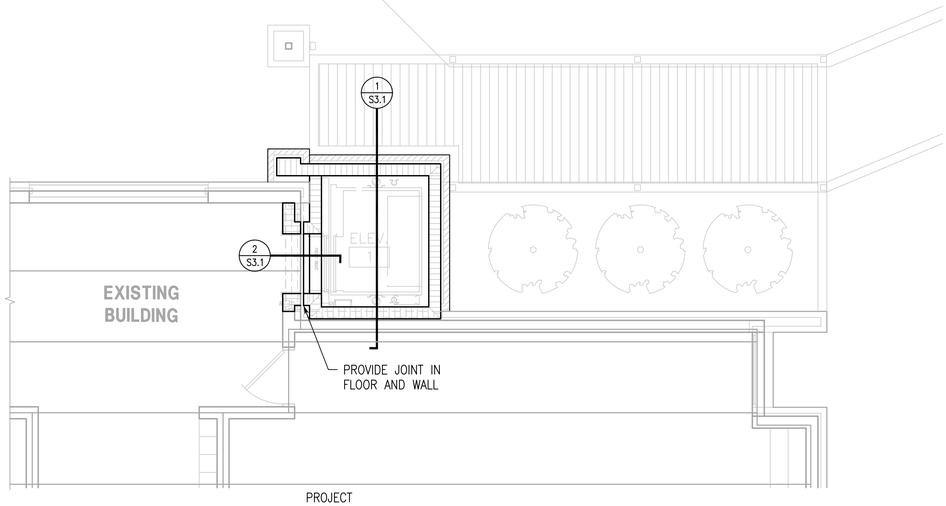


PROJECT NORTH

FOUNDATION PLAN

1/4"=1'-0"

1. BUILDING IS EXISTING. ELEVATOR SHAFT AND FLOOR ACCESS IS NEW.
2. FINISH FLOOR ELEVATION 0'-0", MATCH EXISTING.
3. TOP OF FOOTING ELEVATION -2'-0" UNLESS NOTED. CONTRACTOR TO VERIFY ALL EXISTING FOOTING TYPES AND ELEVATIONS IN AREA OF WORK.
4. ⊠ INDICATES POST-INSTALLED FOUNDATION ANCHOR. ANCHOR SHALL BE DESIGNED BY THE CONTRACTOR TO RESIST A 40k AXIAL LOAD AND A 5k TENSILE LOAD. ANCHOR TO BE ATTACHED TO EXISTING FOOTING TO TRANSFER NOTED LOADING FROM FOOTING INTO ANCHOR BY THE CONTRACTOR.



PROJECT NORTH

UPPER FRAMING PLAN

1/4"=1'-0"

1. FINISH FLOOR ELEVATION 11'-4", MATCH EXISTING.

LATHAN ARCHITECTS

NEW ELEVATOR FOR LOCUST FORK ELEMENTARY SCHOOL

155 School Road Locust Fork, AL 35097

BLOUNT COUNTY BOARD OF EDUCATION

ALABAMA REGISTERED No. 22596 PROFESSIONAL ENGINEER H. CRAIG WINN
H. Craig Winn P.E.
8-28-2024

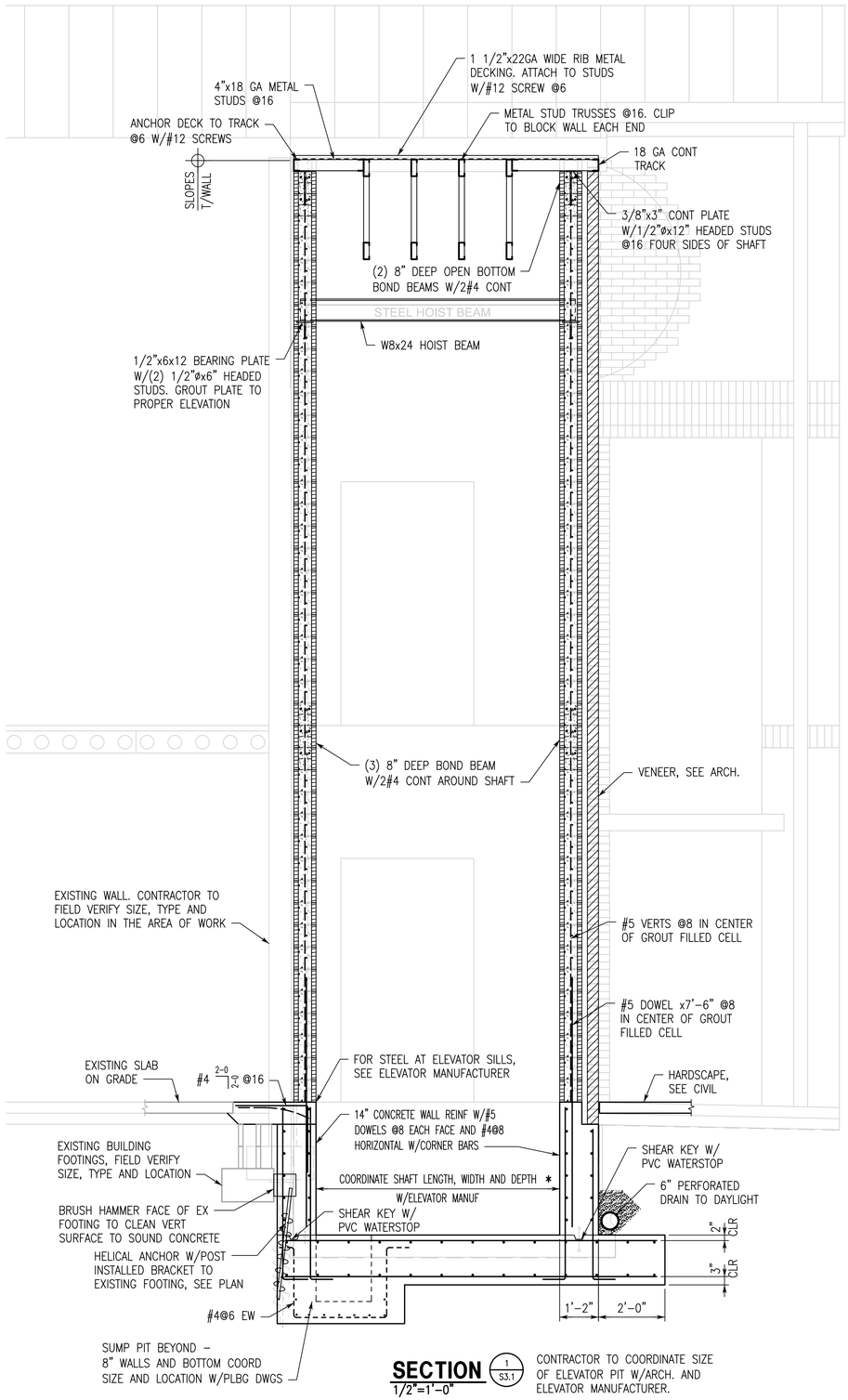
SHEET TITLE:
FOUNDATION, UPPER FRAMING AND ROOF FRAMING PLAN

PROJ. MGR.:	HCW
DRAWN:	ABS
DATE:	AUGUST 28, 2024
REVISIONS	

JOB NO. 24-39

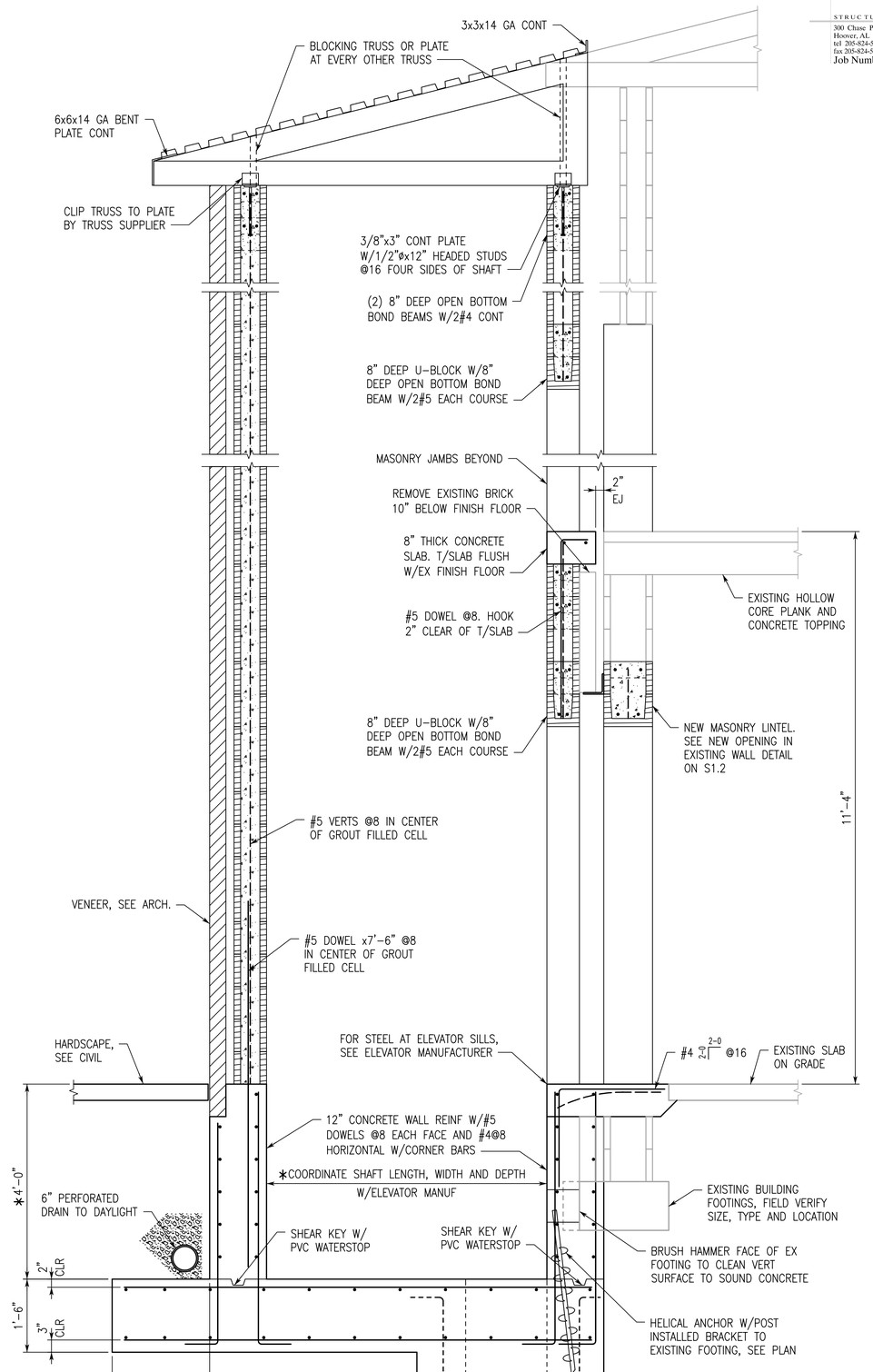
SHEET NO:
S2.1
5 OF 6

0 1" 2"



SECTION 1/S3.1
1/2"=1'-0"

CONTRACTOR TO COORDINATE SIZE OF ELEVATOR PIT W/ARCH. AND ELEVATOR MANUFACTURER.



SECTION 2/S3.1
3/4"=1'-0"

CONTRACTOR TO COORDINATE SIZE OF ELEVATOR PIT W/ARCH. AND ELEVATOR MANUFACTURER.

SDG
STRUCTURAL DESIGN GROUP
300 Chase Park South, Suite 125
Hoover, AL 35244
tel 205-824-5200
fax 205-824-5280
Job Number 24-120

LATHAN ARCHITECTS

NEW ELEVATOR FOR LOCUST FORK ELEMENTARY SCHOOL

155 School Road Locust Fork, AL 35097
BLOUNT COUNTY BOARD OF EDUCATION

ALABAMA REGISTERED No. 22596 PROFESSIONAL ENGINEER H. CRAIG WINN
H. Craig Winn P.E.
8-28-2024

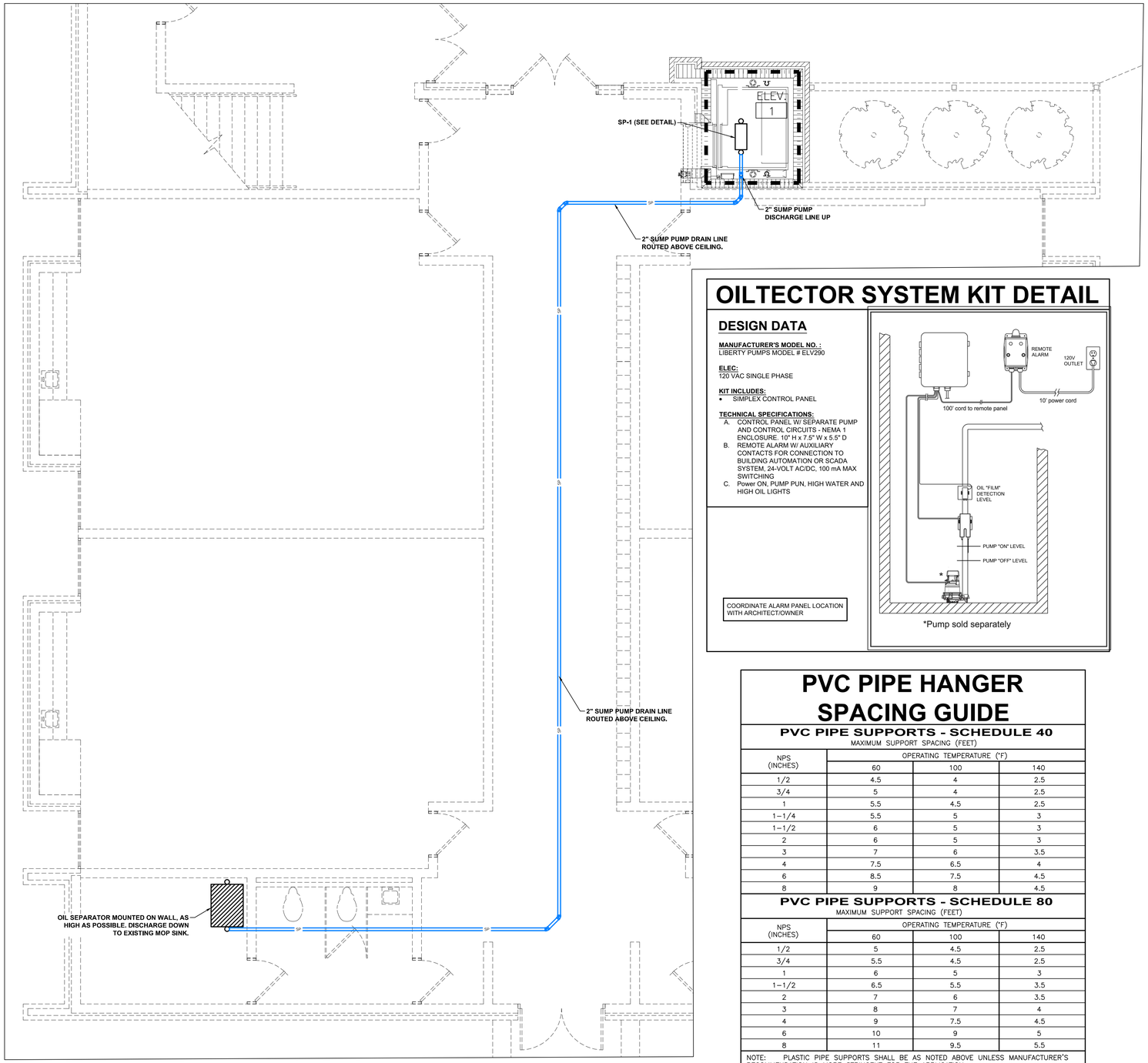
SHEET TITLE:
SECTIONS AND DETAILS

PROJ. MGR.:	HCW
DRAWN:	ABS
DATE:	AUGUST 28, 2024
REVISIONS	

JOB NO. 24-39

SHEET NO:
S3.1
6 OF 6

0 1" 2"



OILTECTOR SYSTEM KIT DETAIL

DESIGN DATA

MANUFACTURER'S MODEL NO. :
LIBERTY PUMPS MODEL # ELV290

ELEC:
120 VAC SINGLE PHASE

KIT INCLUDES:
- SIMPLEX CONTROL PANEL

TECHNICAL SPECIFICATIONS:
A. CONTROL PANEL W/ SEPARATE PUMP AND CONTROL CIRCUITS - NEMA 1 ENCLOSURE. 10" H x 7.5" W x 5.5" D
B. REMOTE ALARM W/ AUXILIARY CONTACTS FOR CONNECTION TO BUILDING AUTOMATION OR SCADA SYSTEM, 24-VOLT AC/DC, 100 mA MAX SWITCHING
C. Power ON, PUMP PUN, HIGH WATER AND HIGH OIL LIGHTS

COORDINATE ALARM PANEL LOCATION WITH ARCHITECT/OWNER

*Pump sold separately

PVC PIPE HANGER SPACING GUIDE

PVC PIPE SUPPORTS - SCHEDULE 40

MAXIMUM SUPPORT SPACING (FEET)

NPS (INCHES)	OPERATING TEMPERATURE (°F)		
	60	100	140
1/2	4.5	4	2.5
3/4	5	4	2.5
1	5.5	4.5	2.5
1-1/4	5.5	5	3
1-1/2	6	5	3
2	6	5	3
3	7	6	3.5
4	7.5	6.5	4
6	8.5	7.5	4.5
8	9	8	4.5

PVC PIPE SUPPORTS - SCHEDULE 80

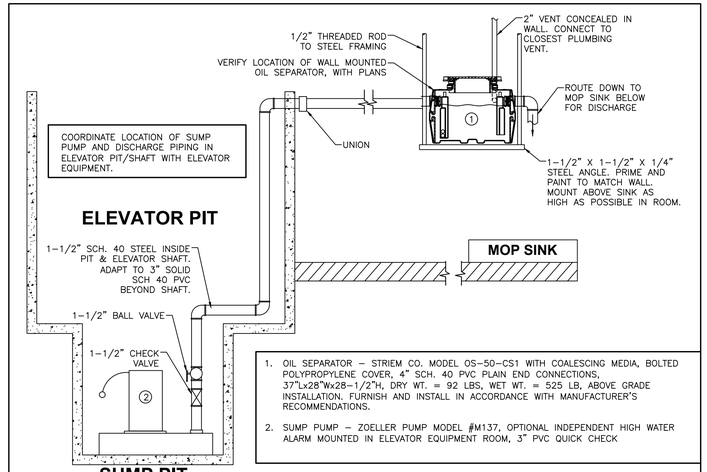
MAXIMUM SUPPORT SPACING (FEET)

NPS (INCHES)	OPERATING TEMPERATURE (°F)		
	60	100	140
1/2	5	4.5	2.5
3/4	5.5	4.5	2.5
1	6	5	3
1-1/2	6.5	5.5	3.5
2	7	6	3.5
3	8	7	4
4	9	7.5	4.5
6	10	9	5
8	11	9.5	5.5

NOTE: PLASTIC PIPE SUPPORTS SHALL BE AS NOTED ABOVE UNLESS MANUFACTURER'S RECOMMENDATION IS MORE STRINGENT FOR THE APPLICATION.

PLUMBING NOTES

1. THESE DRAWINGS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT A COMPLETE PLUMBING SYSTEM BE PROVIDED WITH ALL NECESSARY EQUIPMENT, ACCESSORIES, AND CONTROLS COMPLETELY COORDINATED WITH ALL TRADES. ALL REQUIREMENTS GIVEN IN THESE DOCUMENTS SHALL BE STRICTLY CONFORMED TO. ANY ITEMS AND LABOR REQUIRED FOR A COMPLETE PLUMBING SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS, LOCAL AUTHORITIES, AND THESE CONTRACT DOCUMENTS SHALL BE FURNISHED WITHOUT INCURRING ANY ADDITIONAL COST TO THE OWNER. CAREFULLY REVIEW ALL CONTRACT DOCUMENTS AND THE DESIGN OF OTHER TRADES BEFORE PREPARING SHOP DRAWINGS.
2. COORDINATE ALL WORK WITH ARCHITECTURAL, STRUCTURAL, HVAC, AND ELECTRICAL TRADES. PIPE ROUTING SHOWN IS DIAGRAMMATIC. PROVIDE ALL OFFSETS, ETC., TO AVOID INTERFERENCES WITH EQUIPMENT, PIPING, DUCTWORK, LIGHTS, CONDUIT, ETC.
3. FIELD VERIFY EXACT SIZE, MATERIAL, AND LOCATION OF ALL EXISTING UTILITIES BEFORE BEGINNING WORK.
4. COORDINATE ALL FLOOR PENETRATIONS WITH STRUCTURAL DRAWINGS. SET SLEEVES IN FLOORS/WALLS AND ATTACHMENTS FOR HANGERS AS CONSTRUCTION PROGRESSES. ALL PENETRATIONS MUST BE SEALED AND HELD AS TIGHT TO COLUMNS OR WALLS AS POSSIBLE.
5. ALL PIPING SHALL BE CONCEALED INSIDE WALLS, WITHIN PIPE CHASES, OR ABOVE CEILINGS. HOLD ALL PIPING ABOVE CEILING AS HIGH AS POSSIBLE.
6. PLUMBING CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO ALL EQUIPMENT INDICATED ON DRAWINGS FINAL CONNECTION SHALL INCLUDE ANY ADAPTORS, NIPPLES, SHUT-OFF VALVES, PRV'S, SHOCK ABSORBERS, BACKFLOW PREVENTION DEVICES, REGULATORS, ETC.
7. ALL STRUCTURAL PENETRATIONS (SLEEVES, BLOCK OUTS, ETC.) ARE TO BE LOCATED AND COORDINATED IN THE FIELD BY THE CONTRACTOR IN RELATION TO THE REQUIREMENTS OF FINAL EQUIPMENT AND FIXTURES SELECTED.



1. OIL SEPARATOR – STRIEM CO. MODEL OS-50-CS1 WITH COALESCING MEDIA, BOLTED POLYPROPYLENE COVER, 4" SCH. 40 PVC PLAIN END CONNECTIONS, 37"Lx28"Wx28-1/2"H, DRY WT. = 92 LBS, WET WT. = 525 LB, ABOVE GRADE INSTALLATION. FURNISH AND INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2. SUMP PUMP – ZOELLER PUMP MODEL #M137, OPTIONAL INDEPENDENT HIGH WATER ALARM MOUNTED IN ELEVATOR EQUIPMENT ROOM, 3" PVC QUICK CHECK

SUMP PUMP DETAIL

NOT TO SCALE

SUMP PUMP SCHEDULE

MARK NO.	MANUFACTURER'S MODEL NO.	MAX. H.P.	ELECTRICAL	RPM	DISCHARGE	FLOW DATA	
						GPM	HEAD, FT
SP-1	LIBERTY PUMPS ELV290 OR APPROVED EQUAL	3/4	115-1-60 10.4 FLA	1750	1-1/2"	78	5
						73	10
						65	15
						58	20
						50	25

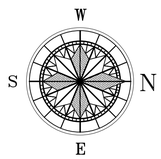
NOTE:
PROVIDE AND INSTALL WITH OILTECTOR SYSTEM KIT (SEE DETAIL)

PLUMBING LEGEND

—— SP ——	SUMP PUMP DISCHARGE

CODES AND STANDARDS

- **2021 INTERNATIONAL PLUMBING CODE**
- **2021 INTERNATIONAL MECHANICAL CODE**
- **2021 EXISTING BUILDING CODE**



MAIN FLOOR PLUMBING PLAN

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

4' 0' 4' 8' 16'

SCALE

FIRE WALL LEGEND

2 HOUR WALL	- - - - - - - -

PLUMBING DRAWING INDEX

SHEET NO.	SHEET TITLE
P1.1	MAIN FLOOR PLUMBING PLAN

WHORTON ENGINEERING, INC.
HVAC – PLUMBING – PROCESS CONTROL
RANDALL WHORTON, P.E.
PHONE: (256) 820-9897
25 SUMMERALL GATE ROAD
ANNISTON, ALABAMA 36205

WHORTON ENGINEERING PROJECT NO. 24153

LATHAN ARCHITECTS

NEW ELEVATOR FOR
LOCUST FORK ELEMENTARY SCHOOL
155 School Road Locust Fork, AL 35097
BLOUNT COUNTY BOARD OF EDUCATION

ALABAMA REGISTERED No.26076 PROFESSIONAL ENGINEER RANDALL WHORTON
08-28-2024

SHEET TITLE:
MAIN FLOOR
PLUMBING PLAN

PROJ. MGR.:	RDW
DRAWN:	CBO
DATE:	AUGUST 28, 2024
REVISIONS	

JOB NO. 24-39

SHEET NO:
P1.1
1 OF 1

0 1" 2"

LIGHTING FIXTURE SCHEDULE

MARK	MANUFACTURER	CATALOG NO.	LAMPS			MOUNTING HEIGHT	TYPE MOUNTING	RECESS DEPTH	REMARKS
			NO.	WATTS	TYPE				
A	PHOENIX	VA-W-17LED-WW-FDC-120	FURNISHED WITH FIXTURE			AS NOTED	BRACKET		

NOTES:
1. VERIFY ALL FIXTURE COLORS WITH ARCHITECT PRIOR TO SUBMITTALS.
2. EQUAL FIXTURES BY LITHONIA, PARKER, DAYBRITE, AND COLUMBIA WILL BE CONSIDERED APPROVED EQUALS.

GENERAL NOTES

1. SERVICE TO PROJECT IS 120/208 VOLTS, 3 PHASE, 4 WIRE.
2. VERIFY ALL DOOR SWINGS WITH ARCHITECTURAL DRAWINGS BEFORE ROUGHING IN SWITCHES.
3. VERIFY EXACT LOCATION OF ALL MOTORS AND EQUIPMENT BEFORE ROUGHING IN.
4. CONTRACTOR TO VERIFY LOCATION OF ALL OUTLETS PRIOR TO INSTALLATION.
5. THE ELECTRICAL CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF COUNTERTOPS AND BACKSPLASHES ON ARCHITECTURAL DETAILS AND/OR CASEWORK SHOP DRAWINGS AND ADJUST SPECIFIED MOUNTING HEIGHT OF WALL OUTLETS AS REQUIRED TO AVOID CONFLICTS.
6. CONTRACTOR WILL CHECK ALL LIGHTING FIXTURES FOR EXACT TYPE MOUNTING AND SPACE REQUIRED BEFORE ROUGHING IN.
7. SUPPORT OF ALL LIGHTING FIXTURES TO BE THE RESPONSIBILITY OF THIS CONTRACTOR. FIXTURES TO BE SUPPORTED INDEPENDENT OF CEILING FROM STRUCTURAL MEMBERS OF THE BUILDING.
8. ELECTRICAL CONTRACTOR MUST CHECK THE CORRESPONDING MECHANICAL SHEETS AND BE RESPONSIBLE FOR INCLUDING PROPER SERVICE AND CONNECTIONS TO ALL MECHANICAL ITEMS SHOWN THEREON REGARDLESS OF ITS BEING OR NOT BEING SHOWN ON ELECTRICAL SHEETS.
9. ALL CONDUIT CONCEALED UNLESS SPECIFICALLY SHOWN EXPOSED.
10. COORDINATE SERVICES WITH POWER AND COMMUNICATIONS COMPANIES. REMOVE OR RELOCATE ALL POWER AND COMMUNICATIONS CIRCUITS ABOVE OR BELOW GRADE THAT WOULD OBSTRUCT THE CONSTRUCTION OF THE PROJECT OR CONFLICT IN ANY MANNER WITH COMPLETION OF THE PROJECT OR ANY CODE PERTAINING THERETO. IF UTILITY COMPANY REQUIREMENTS ARE AT VARIANCE WITH THESE DRAWINGS AND SPECIFICATIONS, THE CONTRACT PRICE SHALL INCLUDE THE ADDITIONAL COST.
11. IT IS INTENDED THAT SPECIFICATIONS AND PLANS SHALL INCLUDE EVERYTHING REQUIRED AND NECESSARY FOR PROPER AND COMPLETE INSTALLATION OF THE COMPLETE SYSTEMS SHOWN EVEN THOUGH EVERY ITEM MAY NOT BE PARTICULARLY MENTIONED IN DETAIL. THE CONTRACTOR SHALL DELIVER TO OTHER TRADES ANY EQUIPMENT THAT MUST BE INSTALLED DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD MEASUREMENTS AND COORDINATION OF THE PHYSICAL SIZE OF ALL EQUIPMENT WITH THE ARCHITECTURAL REQUIREMENTS OF THE SPACES INTO WHICH THE EQUIPMENT WILL BE INSTALLED.
12. THIS CONTRACTOR SHALL INSTALL EQUIPMENT GROUNDS THROUGHOUT THIS PROJECT, USING GREEN INSULATED GROUND WIRE. USE OF CONDUIT AS THE ONLY GROUND CONDUCTOR WILL NOT BE ALLOWED. (SIZE GROUND WIRES PER N.E.C.)
13. REMOVE ALL EXISTING PANELBOARDS, DISCONNECTS, FIXTURES, RECEPTACLES, AUXILIARY SYSTEM DEVICES, CONDUIT, CONDUCTORS, ETC. BEING RENDERED OBSOLETE BY THIS PROJECT.
14. WHERE EXISTING REMAINING CIRCUITS ARE BEING INTERRUPTED DUE TO STRUCTURAL AND/OR DESIGN CHANGES, THIS CONTRACTOR WILL EXTEND EXISTING CIRCUITS AS REQUIRED TO MAINTAIN CIRCUIT CONTINUITY TO REMAINING ACTIVE DEVICES.

ELECTRICAL SYMBOLS

(A)a,1	CEILING OUTLET – FIXTURE "A", CIRCUIT 1, SWITCH a.
	CEILING OUTLET – FLUORESCENT FIXTURE.
	CEILING OUTLET – FLUORESCENT INDUSTRIAL OR STRIP TYPE.
	WALL OUTLET – INCANDESCENT BRACKET TYPE.
	WALL OUTLET – FLUORESCENT BRACKET TYPE.
ALL RECEPTACLES SHALL BE TAMPER RESISTANT STYLE RECEPTACLES	WALL OUTLET – DUPLEX OUTLET, 20A, 125V, GROUNDED, PASS & SEYMOUR PT5362A-GRY WITH PT6STR PLUG TAIL CONNECTOR.
	WALL OUTLET – DUPLEX OUTLET, 20A, 125V, GROUNDED, PASS & SEYMOUR PT5362A-GRY WITH PT6STR PLUG TAIL CONNECTOR – MOUNT AT 6" ABOVE COUNTER.
GFCI	WALL OUTLET – DUPLEX OUTLET, 20A, 125V, GROUNDED, PASS & SEYMOUR PT2095-GRY WITH PT6STR PLUG TAIL CONNECTOR.
WP GFCI	WALL OUTLET – DUPLEX OUTLET, 20A, 125V, GROUNDED, WEATHERPROOF, PASS & SEYMOUR PT2095-GRY WITH PT6STR PLUG TAIL CONNECTOR. INSTALL #WIUC10-CAGV WEATHERPROOF COVER. SHALL BE LABELED AS "EXTRA DUTY".
•	FLOOR OUTLET – CONDUIT STUB UP.
J	CEILING OUTLET – JUNCTION BOX.
J	WALL OUTLET – JUNCTION BOX WITH FLEXIBLE CONNECTION TO EQUIPMENT.
$	SWITCH OUTLET – AC TYPE, SINGLE POLE, 20A, 120/277V, HUBBELL #1221 – GREY.("N" DENOTES NARROW)
$2	SWITCH OUTLET – AC TYPE, TWO POLE, 20A, 120/277V, HUBBELL #1222 – GREY.
$3	SWITCH OUTLET – AC TYPE, THREE WAY, 20A, 120/277V, HUBBELL #1223 – GREY.
$4	SWITCH OUTLET – AC TYPE, FOUR WAY, 20A, 120/277V, HUBBELL #1224 – GREY.
$M	SWITCH MANUAL MOTOR STARTER, SINGLE POLE WITH OVERLOAD PROTECTION.
	LIGHTING PANEL – SEE SPECIFICATIONS AND SCHEDULE.
	POWER PANELS – SEE SPECIFICATIONS AND SCHEDULE.
	BRANCH CIRCUIT CONCEALED IN WALL OR CEILING.
	BRANCH CIRCUIT CONCEALED IN FLOOR OR GROUND.
	HOMERUN TO PANELBOARD – ANY CIRCUIT WITHOUT FURTHER DESIGNATION 2 # 12 & 1 # 12(G) – 1/2" CONDUIT. 3 # 12 & 1 # 12(G) – 3/4" CONDUIT. 4 # 12 & 1 # 12(G) – 3/4" CONDUIT.
E	EMPTY CONDUIT – 3/4".
	BRANCH CIRCUIT EXPOSED.
°	CONDUIT RUN DOWN WALLS, CONCEALED
•	CONDUIT RUN UP WALLS, CONCEALED
(5)	MOTOR SHOWN 5hp (TYPICAL) OR (40) 40 AMPS (TYPICAL).
(f)	EXHAUST FAN MOTOR – FRACTIONAL HORSEPOWER.
	MAGNETIC MOTOR STARTER.
	NON-FUSED DISCONNECT SWITCH. (RT – RAINTIGHT).
	FUSED DISCONNECT SWITCH.
A.F.F.	ABOVE FINISHED FLOOR.
VER.	VERIFY LOCATION.
N.E.C.	NATIONAL ELECTRICAL CODE.
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
WP	WEATHER PROOF
IG	ISOLATED GROUND
	FIRE ALARM – SMOKE DETECTOR – SEE SPEC.
FACP	FIRE ALARM CONTROL PANEL – EXISTING – SEE SPEC.

FIRE ALARM SYSTEM NOTES

1. PROVIDE FIRE ALARM COMPLETION DOCUMENTS AT THE STATE FINAL INSPECTION. THIS ITEM WILL BE REQUIRED BY STATE BUILDING INSPECTOR AT THE TIME OF FINAL INSPECTION (OLD CERTIFICATION FORM).
2. ADDITIONS AND ALTERATIONS TO THE FIRE ALARM SYSTEM REQUIRE TESTING, A RECORD OF COMPLETION, AND RECERTIFICATION. ALL FIRE ALARM WORK SHALL BE PERFORMED BY QUALIFIED PERSONNEL AS DEFINED IN NFPA-72 (2013) 10.4.2, 10.5.2, AND 10.18.1.
3. ALL WORK SHALL BE PERFORMED BY A CERTIFIED FIRE ALARM CONTRACTOR – SEE SPECS.

COLOR CODE FOR JUNCTION BOXES

NOTE:
PAINT ALL JUNCTION BOXES AND COVERS WITH COLORS AS SHOWN BELOW. PAINTING COVERS ONLY IS NOT ACCEPTABLE.

FUNCTION:	COLOR:
LIGHTING	BLUE
POWER	GREEN
FIRE ALARM	RED

COLOR CODE FOR ELECTRICAL WIRING

1. 120/208 V, 60Hz, 3 PHASE, 4 WIRE SYSTEM
   PHASE A-BLACK
   B-RED
   C-BLUE
   N-WHITE
2. GROUND-GREEN

STEWART ENGINEERING
ELECTRICAL CONSULTANTS

P.O. Box 2233 (36202)
300 East 7th Street (36207)
Anniston, Alabama
Phone: 256/237-0891
Fax No.: 256/237-1077
Email: services@stewartengineering.org

Engineer:
J. Lance Junkin, P.E.
Alabama Reg. 14817

Project Number:
2482

LATHAN ARCHITECTS

NEW ELEVATOR FOR
LOCUST FORK ELEMENTARY SCHOOL
155 School Road Locust Fork, AL 35097
BLOUNT COUNTY BOARD OF EDUCATION

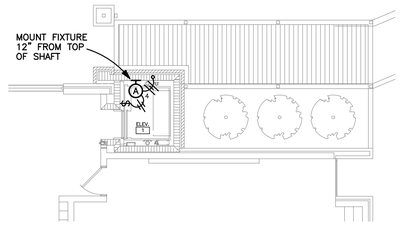
ALABAMA LICENSED No. 14817 PROFESSIONAL ENGINEER JEFFREY LANCE JUNKIN
8-21-24

SHEET TITLE:
SCHEDULES, SYMBOLS, AND NOTES

PROJ. MGR.: LANCE JUNKIN
DRAWN: SEC
DATE: AUGUST 28, 2024
REVISIONS

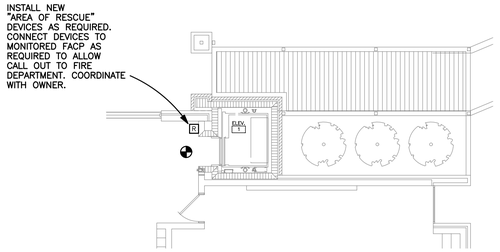
JOB NO. 24-39
SHEET NO:
E1.1
1 OF 2

0 1" 2"



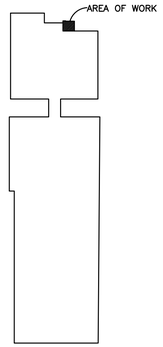
PARTIAL UPPER LEVEL FLOOR PLAN - LIGHTING

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



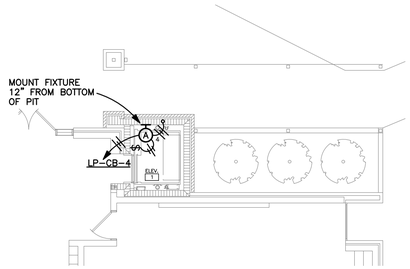
PARTIAL UPPER LEVEL FLOOR PLAN - POWER

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



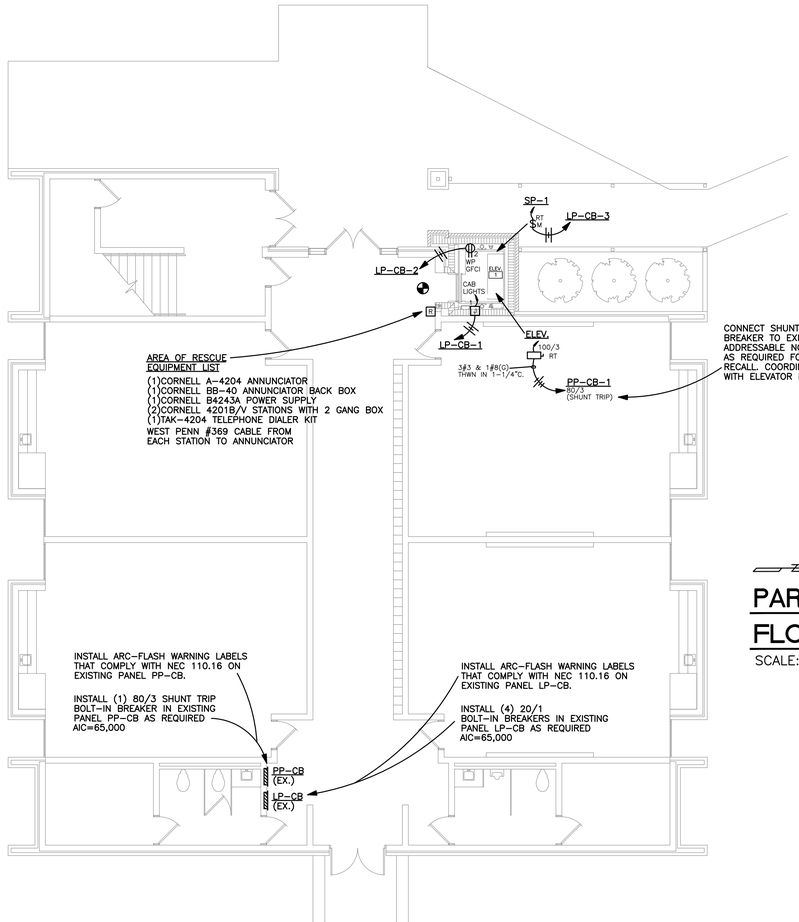
KEY PLAN

N.T.S.



PARTIAL MAIN LEVEL FLOOR PLAN - LIGHTING

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



PARTIAL MAIN LEVEL FLOOR PLAN - POWER

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

STEWART ENGINEERING
ELECTRICAL CONSULTANTS

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Engineer:
J. Lance Junkin, P.E.
Alabama Reg. 14817

Project Number:
2482

LATHAN ARCHITECTS

NEW ELEVATOR FOR
LOCUST FORK ELEMENTARY SCHOOL
155 School Road Locust Fork, AL 35097
BLOUNT COUNTY BOARD OF EDUCATION

ALABAMA LICENSED No. 14817 PROFESSIONAL ENGINEER J. LANCE JUNKIN
8-21-24

SHEET TITLE:
ELECTRICAL PLAN

PROJ. MGR.:	LANCE JUNKIN
DRAWN:	SEC
DATE:	AUGUST 28, 2024
REVISIONS	

JOB NO. 24-39

SHEET NO:
E2.1
2 OF 2

0 1" 2"