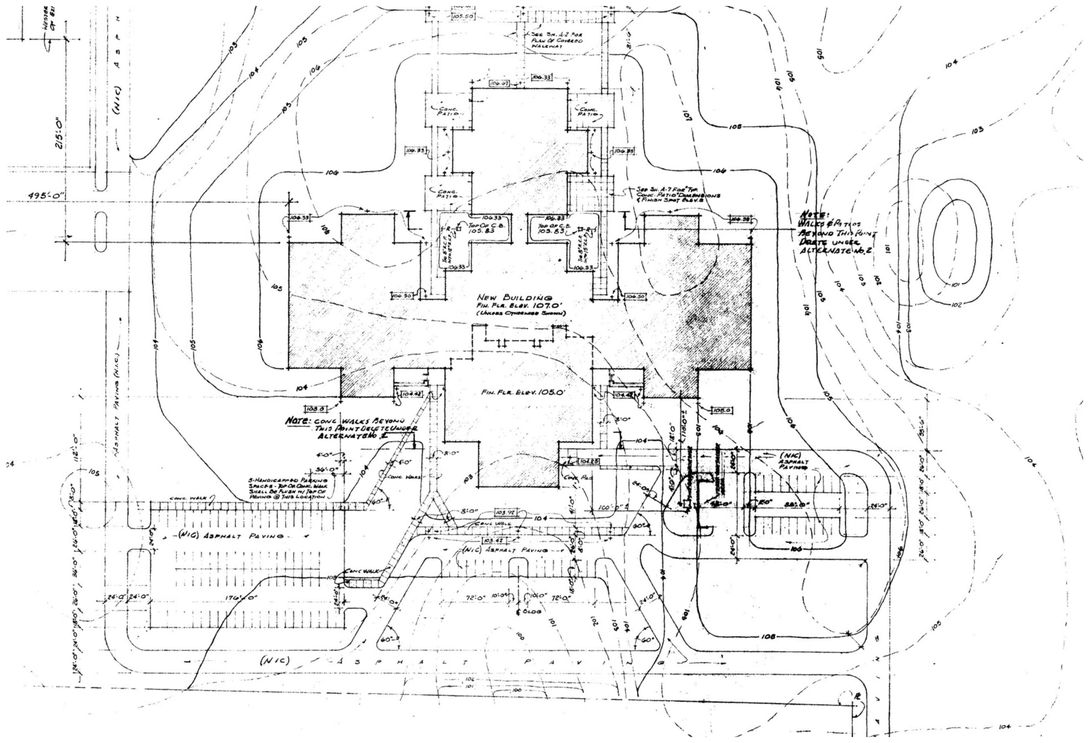
SUWANNEE COUNTY SCHOOL BOARD
SUWANNEE PRIMARY SCHOOL
ADDITIONS AND REMODELING

1625 WALKER AVE., SW — LIVE OAK, FLORIDA

CONSTRUCTION DOCUMENTS
FOR BID/PERMIT

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
A/C	AIR CONDITIONING
ALT	ALTERNATE
AL, ALUM	ALUMINUM
AB	ANCHOR BOLT
∠	ANGLE
BD	BOARD
BOT	BOTTOM
BRG	BEARING
BLDG	BUILDING
BUR	BUILT UP ROOFING
CLG	CEILING
CT	CERAMIC TILE
CCTV	CLOSED CIRCUIT TELEVISION
CLO	CLOSET
COL	COLUMN
CMU	CONCRETE MASONRY UNIT
CJ	CONTROL JOINT
DEMO	DEMOLISH, DEMOLITION
DIA.	DIAMETER
DIM	DIMENSION
DR	DOOR
DBL	DOUBLE
DN	DOWN
DS	DOWNSPOUT
DF	DRINKING FOUNTAIN
DW	DISHWASHER
DWG	DRAWING
(E)	EXISTING
EA	EACH
ELEC	ELECTRIC (AL)
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
ELEV	ELEVATION
EQ	EQUAL
EJ	EXPANSION JOINT
FFE	FINISH FLOOR ELEVATION
FA	FIRE ALARM
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FH	FIRE HYDRANT
FL	FLOOR (ING)
FD	FLOOR DRAIN
GA	GAGE, GAUGE
GALV	GALVANIZED
GL	GLASS, GLAZING
GB	GRAB BAR
GWB	GYPSUM WALLBOARD
HVAC	HEATING / VENTILATING / AIR COND.
HT	HEIGHT
HC	HOLLOW CORE
HM	HOLLOW METAL
HB	HOSE BIBB
HR	HOUR
IN	INCH
ID	INSIDE DIAMETER
INV	INVERT
JT	JOINT
LAV	LAVATORY
LLV	LONG LEG VERTICAL
LLH	LONG LEG HORIZONTAL
MH	MANHOLE
MFR	MANUFACTURE (ER)
MO	MASONRY OPENING
MAX	MAXIMUM
MECH	MECHANIC (AL)
MTL	METAL
MIN	MINIMUM
MISC	MISCELLANEOUS
NRC	NOISE REDUCTION COEFFICIENT
NOM	NOMINAL
N	NORTH
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NO.	NUMBER
O.C.	ON CENTER (S)
OD	OUTSIDE DIAMETER
PTD	PAPER TOWEL DISPENSER
PL	PLATE
PVC	POLYVINYL CHLORIDE
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
PL	PROPERTY LINE
QT	QUARRY TILE
R	RADIUS
REF	REFERENCE
REF	REFRIGERATOR
RCP	REINFORCED CONCRETE PIPE
REQ'D	REQUIRED
RA	RETURN AIR
REV	REVISION (S), REVISED
RD	ROOF DRAIN
RM	ROOM
RO	ROUGH OPENING
SHT	SHEET
SIM	SIMILAR
SC	SOLID CORE
STC	SOUND TRANSMITTANCE COEFFICIENT
SPEC	SPECIFICATION (S)
SPKR	SPRINKLER
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STO	STORAGE
THR	THRESHOLD
TPD	TOILET PAPER DISPENSER
TB	TOWEL BAR
TYP	TYPICAL
UC	UNDERCUT
UL	UNDERWRITER'S LABORATORY
UR	URINAL
UON	UNLESS OTHERWISE NOTED
VERT	VERTICAL
VCT	VINYL COMPOSITION TILE
VOL	VOLUME
WC	WATER CLOSET
WH	WATER HEATER
WWF	WELDED WIRE FABRIC
W/	WITH
W/O	WITHOUT
WD	WOOD
YD	YARD



PROJECT NORTH

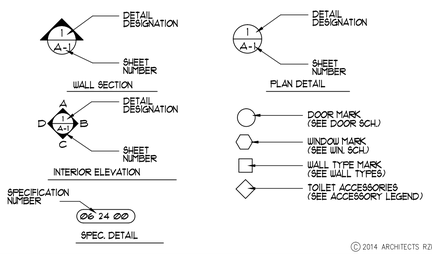
EXISTING CAMPUS SITE PLAN

SCALE: N.T.S.

GENERAL NOTES

1. ALL GRAPHIC SCALES INDICATED ON THE DRAWINGS ARE FOR 24"X36" PAGE SIZE ONLY.
2. TO THE BEST OF OUR KNOWLEDGE THESE DOCUMENTS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE FIRE SAFETY STANDARDS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE AND 633 FLORIDA STATUTES.
3. DETAILS SHALL APPLY TO ALL SIMILAR CONDITIONS UNLESS A DIFFERENT DETAIL IS SHOWN.
4. ALL PLANS OF EXISTING CONDITIONS ARE BASED UPON THE ORIGINAL DESIGN DRAWINGS DATED 1974 BY ZEB LACKEY AND ASSOCIATES ARCHITECTS. EXISTING FEATURES MAY DIFFER, ESPECIALLY OUTSIDE OF THE AREAS OF MAJOR WORK.

SYMBOLS LIST



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DRAWING LIST

REVISIONS △

ARCHITECTURAL

COV	COVER SHEET
LS-1	LIFE SAFETY PLAN
LS-2	ENLARGED LIFE SAFETY PLAN
A-0.0	CONSTRUCTION SEQUENCE PLAN
A-0.1	ENLARGED DEMOLITION PLAN
A-1.0	NEW FLOOR PLAN
A-1.1	NEW ENLARGED FLOOR PLAN
A-1.2	NEW ENLARGED FLOOR PLAN
A-2.0	NEW REFLECTED CEILING PLAN
A-2.1	NEW ENLARGED REFLECTED CEILING PLAN
A-2.2	NEW ENLARGED REFLECTED CEILING PLAN
A-3.0	NEW ROOF PLAN AND DRAINAGE
A-4.0	NEW PARTIAL EXT. ELEVS
A-5.0	BUILDING SECTIONS
A-6.0	WALL SECTIONS
A-7.0	INTERIOR ELEVATIONS
A-8.0	DOOR AND WIN. SCHEDULES AND TYPES
A-8.1	DOOR AND WINDOW DETAILS
A-9.0	CARPENTRY DETAILS
A-10.0	WALL TYPES AND UL ASS. RATING

STRUCTURAL

S-0.1	GENERAL NOTES AND DETAILS
S-0.2	GENERAL NOTES
S-0.3	WIND DIAGRAM
S-1.1	FOUNDATION AND FRAMING ZONE A
S-2.1	FOUNDATION AND FRAMING ZONE B
S-3.1	SECTIONS AND DETAILS
S-3.2	SECTIONS AND DETAILS
S-3.3	SECTIONS AND DETAILS

PLUMBING

P-0.1	PLUMBING LEGENDS AND NOTES
P-1.0	PLUMBING PLAN
P-1.1	PLUMBING ENLARGED PLANS
P-1.2	PLUMBING ISOMETRIC PLANS

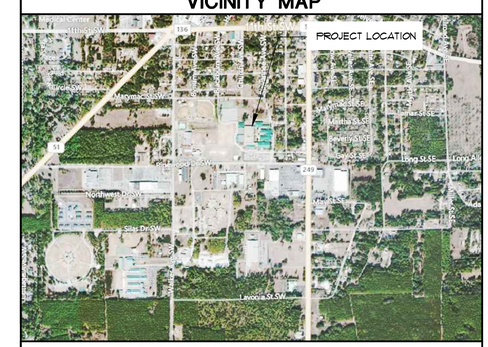
MECHANICAL

M-0.1	MECHANICAL LEGENDS, ABBRS, AND NOTES
M2-1.1	MECHANICAL ENLARGED DEMOLITION PLANS
M-1.1	MECHANICAL FLOOR PLANS
M-2.1	MECHANICAL ROOF PLAN
M2.1	MECHANICAL DETAILS
M3.1	MECHANICAL SCHEDULES

ELECTRICAL

E-0.1	ELECTRICAL LEGEND AND NOTES
E-1.0	ELECTRICAL OVERALL PLAN
E-1.1	ELECTRICAL DEMOLITION PLAN
E-2.1	LIGHTING PLANS
E-3.1	POWER / SYSTEMS PLANS
E-4.1	ELECTRICAL ONE-LINE AND SCHEDULES
E-4.1	ELECTRICAL DETAILS

VICINITY MAP



REVISIONS AND UPDATES

02/14/14		CONSTRUCTION DOCUMENTS FOR BID/PERMIT

SUWANNEE COUNTY SCHOOL BOARD
SUWANNEE PRIMARY SCHOOL
ADDITIONS AND REMODELING
1625 WALKER AVE., SW — LIVE OAK, FLORIDA

COVER SHEET

drawn	checked	approved
02/18/14 CNK	02/16/14 JCZ	JCZ

JOHN C. ZWICK, R.A.
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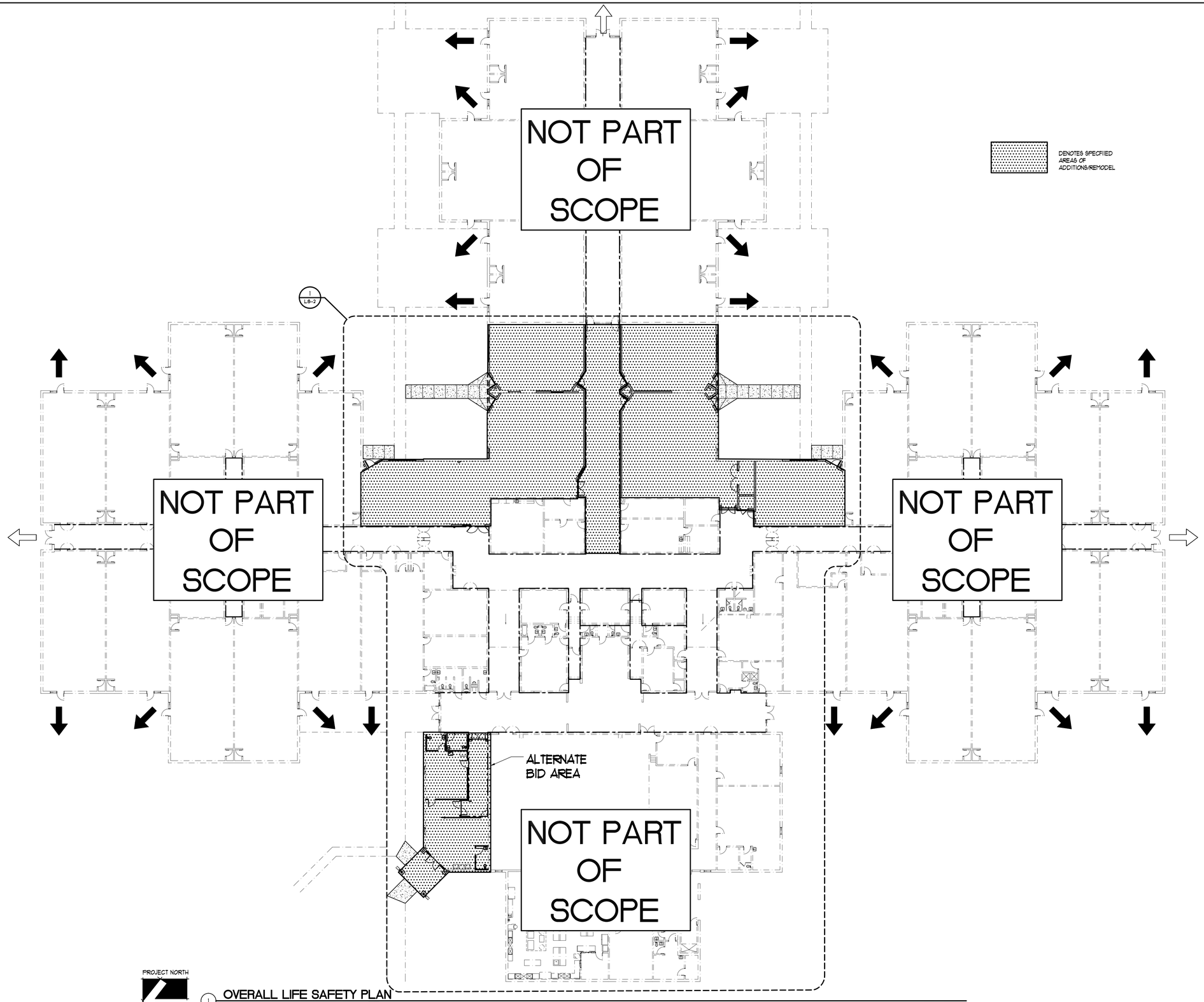
job no. 20121

COV



1 OVERALL LIFE SAFETY PLAN
SCALE: 1" = 20'

LIFE SAFETY / CODE COMPLIANCE NOTES

APPLICABLE CODES

FLORIDA BUILDING CODE - 2010
FBC MECHANICAL CODE 2010
FBC PLUMBING CODE 2010
FLORIDA FIRE PREVENTION CODE 2010

OCCUPANCY CLASSIFICATION

FLORIDA BUILDING CODE - EDUCATIONAL OCCUPANCY PER SECTIONS 305
FLORIDA FIRE PREVENTION CODE - EDUCATIONAL (EXISTING) RENOVATION/REMODEL
NOTE: BUILDING AREA IS GROSS AREA WITHIN EXTERIOR WALLS PER FBC 5021 AND 10021

ADDED AREA:

CLASSROOM ADDITIONS: 2,426 SF

CONSTRUCTION SEPARATION

NOT-APPLICABLE

CONSTRUCTION TYPE

FLORIDA BUILDING CODE:	EXISTING (EQUIVALENT TO TYPE II A)
FIRE SPRINKLER SYSTEM:	NONE

BUILDING HEIGHT AND ALLOWABLE AREA

HEIGHT (FBC TABLE 503) - MAX. HEIGHT IS 65 FT
AREA (FBC TABLE 503) - 26500 SF

EXITING / EGRESS

MIN. NUMBER OF EXITS (PER FBC TABLE 1021.1 AND FFPC)
- OCCUPANT LOAD 1 -500 (PER STORY) = 2 & 3 PROVIDE EXITS.

TRAVEL DISTANCES (SEE PLAN FOR PATHS)
- MAXIMUM COMMON PATH: 75 FT. (PER FBC 1014.3)

- MAXIMUM TRAVEL DISTANCE: 150 FT. (PER FBC TABLE 1016.1)

- DEAD END CORRIDOR: 20 FT. (PER FBC 1018.4)

EXIT WIDTHS: (SEE PLANS FOR WIDTHS) (PER FBC 1005.1)
DOORS:
- 02 INCHES / PERSON (MIN. WIDTH TO BE 36 INCHES)

RAMPS:
- 02 INCHES / PERSON W/ 1:12 MAX. SLOPE

STAIRS:
- 03 INCHES / PERSON

CORRIDOR:
- 02 INCHES / PERSON = X 02" = INCHES MIN. WIDTH SHALL BE 44 INCHES OR 72 INCHES (PER FBC 1018.2 AND FFPC 3823.2)

LIFE SAFETY SYMBOL LEGEND

- INDICATES PRIMARY EXIT OR EXIT ACCESS
- INDICATES SECONDARY EXIT ACCESS
- INDICATES PRIMARY COMMON PATH OF TRAVEL (DISTANCE FEET)
- INDICATES PRIMARY PATH OF TRAVEL (DISTANCE FEET)
- INDICATES SECONDARY PATH OF TRAVEL (DISTANCE FEET)
- 60 20 — INDICATES DOOR WITH FIRE RATING LABEL (IE: 30, 60, 45, OR 20 MINUTE)
- INDICATES MAXIMUM DOOR EXIT CAPACITY (PERSONS)
- INDICATES SMOKE TIGHT WALL/PARTITION
- INDICATES 1 HR FIRE RATED WALL/PARTITION (SMOKE RESISTANT)
- INDICATES OCCUPANT LOAD PER FBC FOR SPECIFIC ROOMS.
- INDICATES MAX. OCCUPANCY SIGN.
- F.E.B. F.E.C. — X.F.E. = EXISTING FIRE EXTINGUISHER — INDICATES FIRE EXTINGUISHER ON BRACKET OR IN CABINET
- INDICATES EMERGENCY LIGHTS (SEE ELEC. DRAWINGS)
- F — INDICATES FIRE ALARM STROBE AND HORN (SEE ELEC. DRAWINGS)
- F — INDICATES FIRE BELL (SEE ELEC. DRAWINGS)
- F — FIRE ALARM PULL STATION (SEE ELEC. DRAWINGS)
- INDICATES EXIT SIGN - (SEE ELEC. DWGS. FOR ADDITIONAL DEVICES)
- (SD) F — SMOKE DETECTOR (SD) AND HEAT DETECTOR
- XX" CLR. — CLEAR WIDTH AND MAXIMUM EGRESS CAPACITY (PERSONS)

REVISIONS AND UPDATES

02/14/14		CONSTRUCTION DOCUMENTS FOR BID/PERMIT

SUWANNEE COUNTY SCHOOL BOARD
SUWANNEE PRIMARY SCHOOL
ADDITIONS AND REMODELING
1625 WALKER AVE., SW LIVE OAK, FLORIDA

OVERALL LIFE SAFETY PLAN

drawn	02/18/14	CNK	checked 02/18/14	JCZ	approved JCZ

JOHN C. ZWICK, R.A.
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AA-C001568

job no. 201251
LS-1

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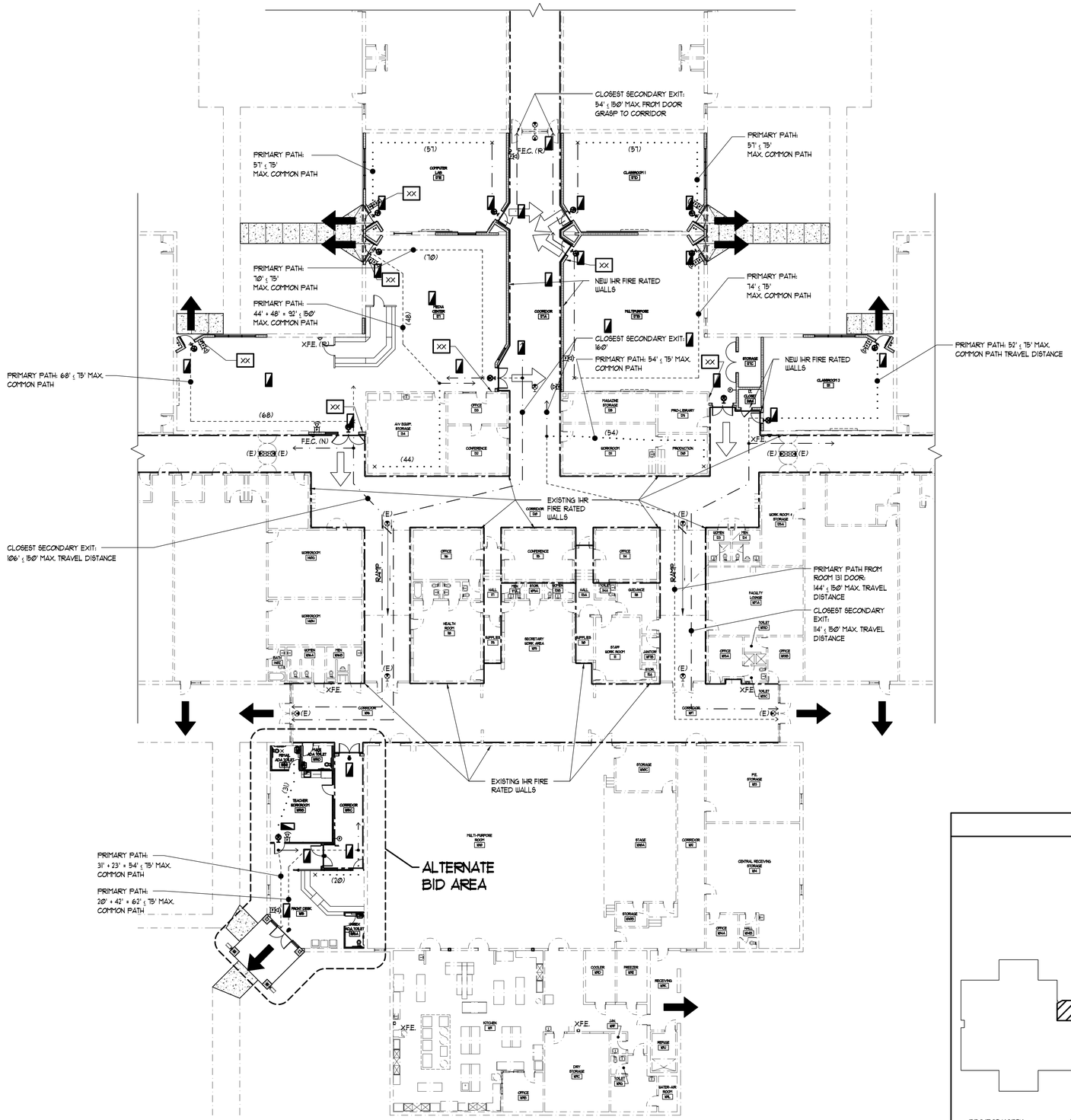

1 ENLARGED LIFE SAFETY PLAN

SCALE: 1/16" = 1'-0"

LIFE SAFETY / CODE COMPLIANCE NOTES

APPLICABLE CODES

FLORIDA BUILDING CODE - 2010
FBC MECHANICAL CODE 2010
FBC PLUMBING CODE 2010
FLORIDA FIRE PREVENTION CODE 2010

OCCUPANCY CLASSIFICATION

FLORIDA BUILDING CODE - EDUCATIONAL OCCUPANCY PER SECTIONS 305
FLORIDA FIRE PREVENTION CODE - EDUCATIONAL (EXISTING) RENOVATION/REMODEL
NOTE: BUILDING AREA IS GROSS AREA WITHIN EXTERIOR WALLS PER FBC 5021 AND 1002.1

ADDED AREA:

CLASSROOM ADDITIONS: 2,426 SF

CONSTRUCTION SEPARATION

NOT-APPLICABLE

CONSTRUCTION TYPE

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STAIRS:
- 03 INCHES / PERSON

CORRIDOR:
- 02 INCHES / PERSON = X 02" = INCHES MIN. WIDTH SHALL BE 44 INCHES OR 72 INCHES (PER FBC 1018.2 AND FFPC 3823.2)

LIFE SAFETY SYMBOL LEGEND

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● (' ')	INDICATES PRIMARY PATH OF TRAVEL (DISTANCE FEET)
● (' ')	INDICATES SECONDARY PATH OF TRAVEL (DISTANCE FEET)
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	INDICATES SMOKE TIGHT WALL/PARTITION
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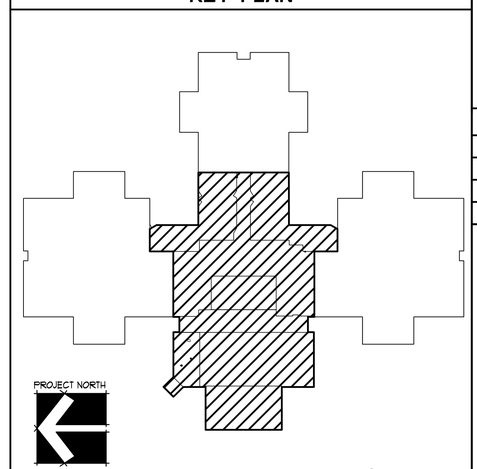
	INDICATES EXIT SIGN - (SEE ELEC. DWGS. FOR ADDITIONAL DEVICES)
(SD) F	SMOKE DETECTOR (SD) AND HEAT DETECTOR
XX" CLR.	CLEAR WIDTH AND MAXIMUM EGRESS CAPACITY (PERSONS)

KEY PLAN



REVISIONS AND UPDATES

02/14/14		CONSTRUCTION DOCUMENTS FOR BID/PERMIT

SUWANNEE COUNTY SCHOOL BOARD
SUWANNEE PRIMARY SCHOOL
ADDITIONS AND REMODELING
1625 WALKER AVE., SW LIVE OAK, FLORIDA

ENLARGED LIFE SAFETY PLAN

drawn	02/18/14	CNK	checked	02/16/14 JCZ	approved JCZ

AA-C000568
JOHN C. ZWICK, R.A.
FL. REG. AR0009527

job no. 201251

LS-2

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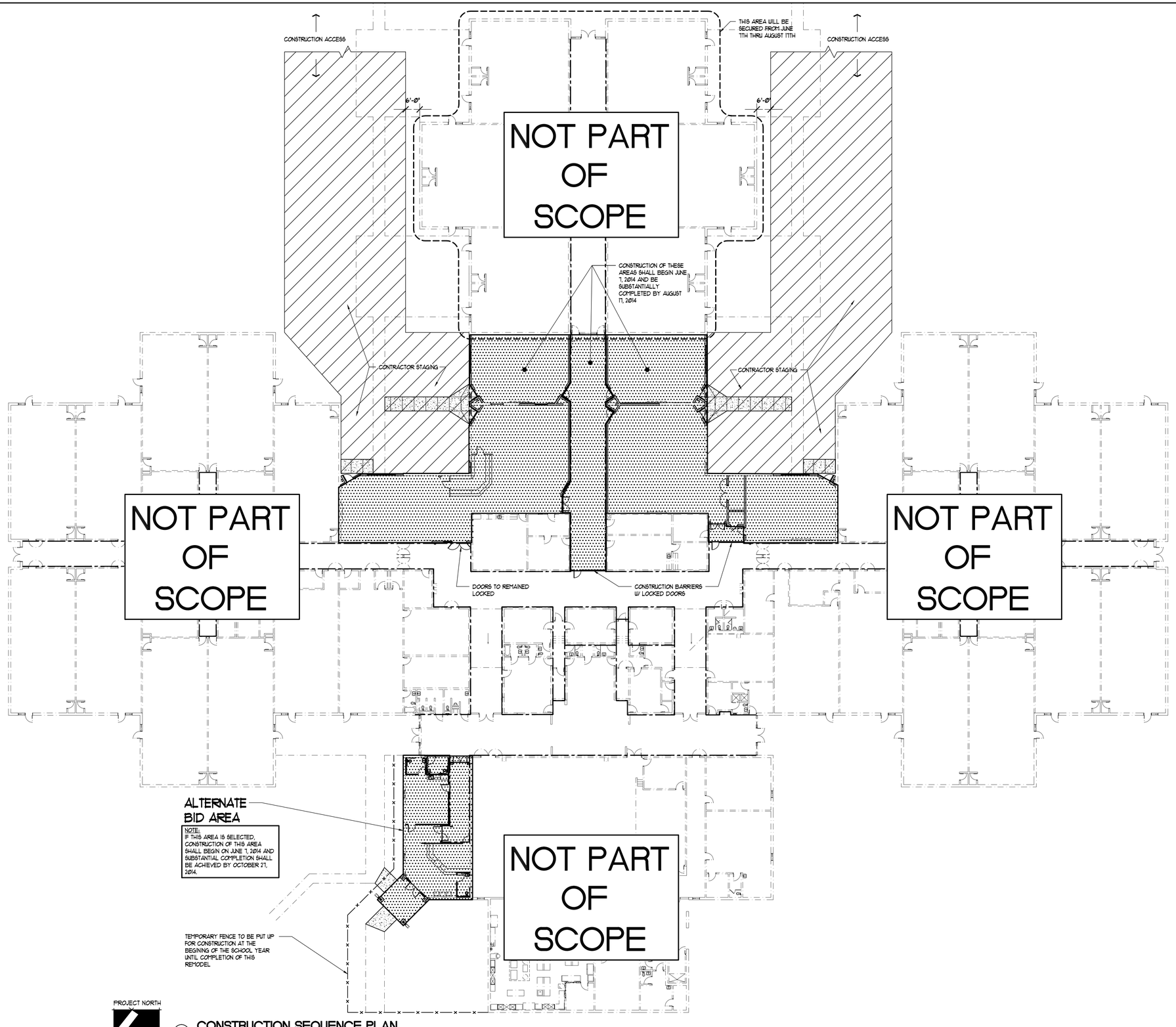

1 CONSTRUCTION SEQUENCE PLAN

SCALE: 1" = 20'

GENERAL NOTES

1. CONTRACTOR TO COORDINATE WITH THE SCSB-PM AND ARCHITECT PRIOR TO CONSTRUCTION AS TO SYSTEMS (FIRE, ELECT. AND MECH.) THAT WILL BE AFFECTED AND ENSURE THAT DATA INTEGRITY AND POWER WILL BE MAINTAINED CONTINUOUSLY THROUGHOUT DEMOLITION AND CONSTRUCTION.
2. ALL CONSTRUCTION REQUIRING THE DISRUPTION OF THE NORMAL WORKING ENVIRONMENT WILL BE SUBJECT TO APPROVAL AND COORDINATION WITH SCSB-PM.
3. TEMPORARY CONSTRUCTION BARRIERS WILL BE SET UP PRIOR TO CONSTRUCTION TO PROVIDE A DUST FREE SEAL OF THE SCSB AREAS.
4. REPLACE ANY MISSING, DAMAGED, OR DIRTY CEILING TILES IN ADJACENT AREAS OR REPLACE ENTIRE CEILING IN ROOM.
5. REPAINT ALL PREVIOUS PAINTED WALLS IN RENOVATED AREAS.
6. PATCH, REPAIR & PAINT ALL ADJACENT AREAS DAMAGED BY DEMOLITION (TYPICAL).
7. ALL PLANS OF EXISTING CONDITIONS ARE BASED UPON THE ORIGINAL DESIGN DRAWINGS DATED 1974 BY ZEB LACKEY AND ASSOCIATES ARCHITECTS. EXISTING FEATURES MAY DIFFER, ESPECIALLY OUTSIDE OF THE AREAS OF MAJOR WORK.
8. ALL DIMENSIONS FROM EXISTING WALLS TO NEW FEATURES ARE FROM THE EXISTING FINISH FACE UNLESS NOTED OTHERWISE.
9. SEE ENGINEERING DRAWINGS FOR ADDITIONAL DEMOLITION REQUIREMENTS.

SEQUENCE NOTES

1. SEE DIVISION 00 SPECIFICATIONS FOR OTHER CONTRACTOR REQUIREMENTS.
2. THE DISTRICT WILL OCCUPY REMOTE LOCATIONS OF THIS CAMPUS FOR SUMMER SCHOOL. THE CONTRACTOR SHALL NOT IMPEDE THE OPERATIONS OR SAFETY OF THOSE AREAS WITHOUT ADVANCED PERMISSION FROM THE DISTRICT PM.
3. ALL DISTURBED SITE AREA SHALL BE REPAIRED.

REVISIONS AND UPDATES

02/14/14		CONSTRUCTION DOCUMENTS FOR BID/PERMIT

SUWANNEE COUNTY SCHOOL BOARD
SUWANNEE PRIMARY SCHOOL
ADDITIONS AND REMODELING
1625 WALKER AVE., SW LIVE OAK, FLORIDA

CONSTRUCTION SEQUENCE PLAN

drawn 02/18/14 CNK	checked 02/16/14 JCZ	approved JCZ

AA-C000568

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job no. 201251

A-0.0

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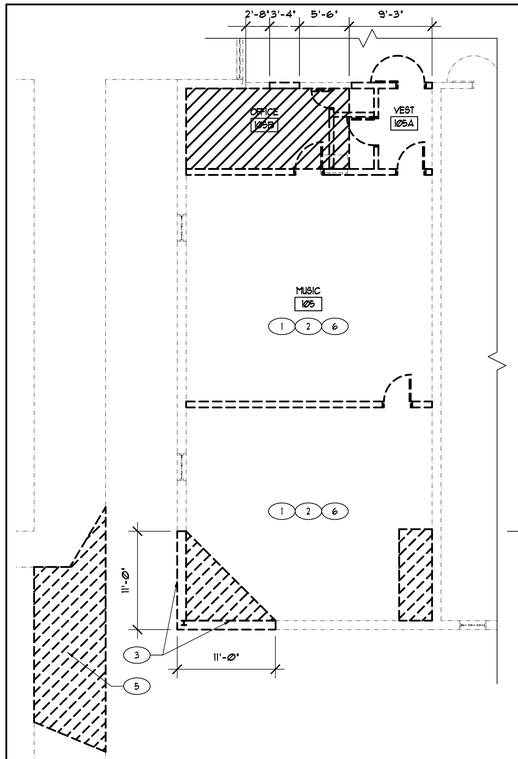
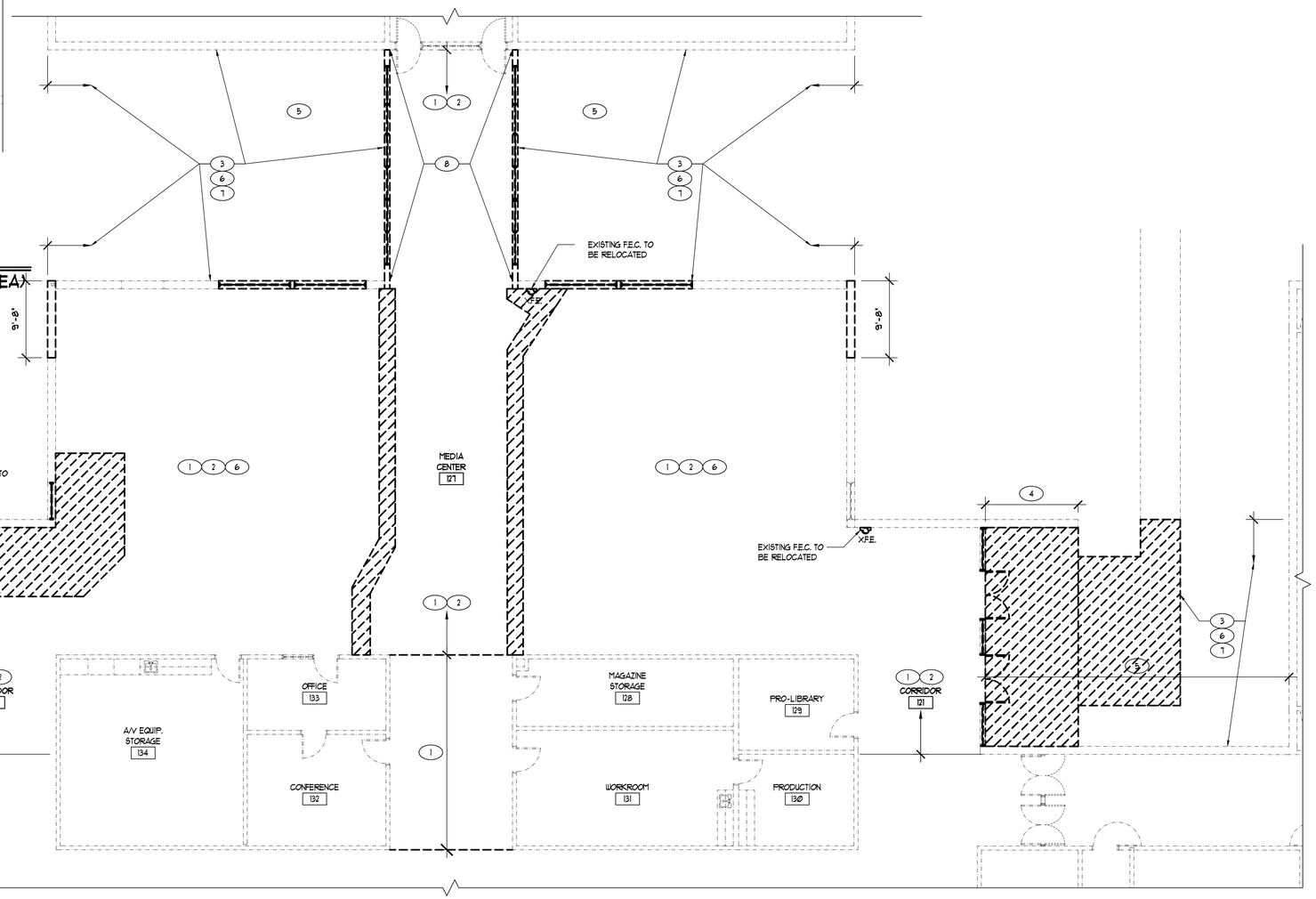


1 ENLARGED DEMOLITION PLAN
SCALE: 1/8"=1'-0"
(ALTERNATE BID AREA)

NOTE:

CONTRACTOR SHALL SECURE SERVICES OF A UNDERGROUND MAPPING UTILITIES LOCATION FIRM AND HAVE THE AREAS MAPPED WHERE NEW ADDITIONS ARE TO BE CONSTRUCTED.



2 ENLARGED DEMOLITION PLAN
SCALE: 1/8"=1'-0"

GRAPHIC SCALE
4' 0 4' 8' 12' 16'
1/8"=1'-0"

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GENERAL NOTES

1. CONTRACTOR TO COORDINATE WITH THE SCSB-PM AND ARCHITECT PRIOR TO CONSTRUCTION AS TO SYSTEMS (FIRE, ELECT. AND MECH.) THAT WILL BE AFFECTED AND ENSURE THAT DATA INTEGRITY AND POWER WILL BE MAINTAINED CONTINUOUSLY THROUGHOUT DEMOLITION AND CONSTRUCTION.
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8. ALL DIMENSIONS FROM EXISTING WALLS TO NEW FEATURES ARE FROM THE EXISTING FINISH FACE UNLESS NOTED OTHERWISE.
9. SEE ENGINEERING DRAWINGS FOR ADDITIONAL DEMOLITION REQUIREMENTS.

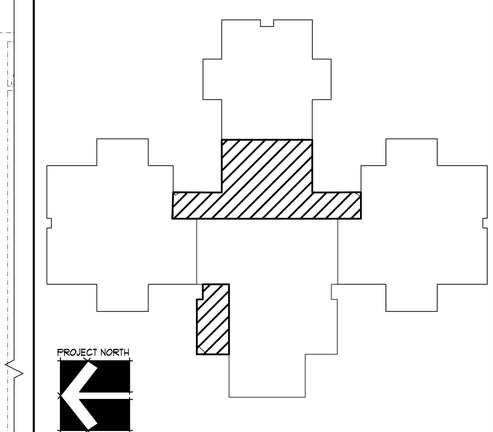
DEMOLITION LEGEND

- DENOTES EXISTING FEATURES TO REMAIN.
- DENOTES EXISTING FEATURES TO BE DEMOLISHED OR RELOCATED.
- DENOTES EXISTING SLAB AREA TO BE REMOVED.

SPECIFIC DEMOLITION NOTES

1. REMOVE ALL FLOORING AND WALL BASE.
2. REMOVE EXISTING SUSPENDED CEILING.
3. CAREFULLY REMOVE (CUT IF NECESSARY) PRECAST CONCRETE FASCIA PANELS ON OUTSIDE WALL TO ACCOMMODATE NEW WORK LIMITS. SOME EXISTING FASCIA PANELS ARE TO BE RELOCATED TO THE NEW CONSTRUCTIONS AREAS.
4. REMOVE SOFFIT AND FRAMING.
5. REMOVE STOOPS, WALKS, PLANTS, ETC. TO PREPARE AREA FOR NEW SLAB AND FOUNDATIONS.
6. CLEAN AND PREP ROOM WALLS FOR NEW INTERIOR PAINT.
7. CAREFULLY EXCAVATE AREAS FOR NEW ADDITION(S) TO LOCATE SANITARY, DOMESTIC WATER AND RAINWATER PIPING AND CONFIRM LOCATIONS.
8. REMOVE ROOF ABOVE THIS AREA.

KEY PLAN



REVISIONS AND UPDATES

02/14/14		CONSTRUCTION DOCUMENTS FOR BID/PERMIT

SUWANNEE COUNTY SCHOOL BOARD
SUWANNEE PRIMARY SCHOOL
ADDITIONS AND REMODELING
1625 WALKER AVE., SW LIVE OAK, FLORIDA

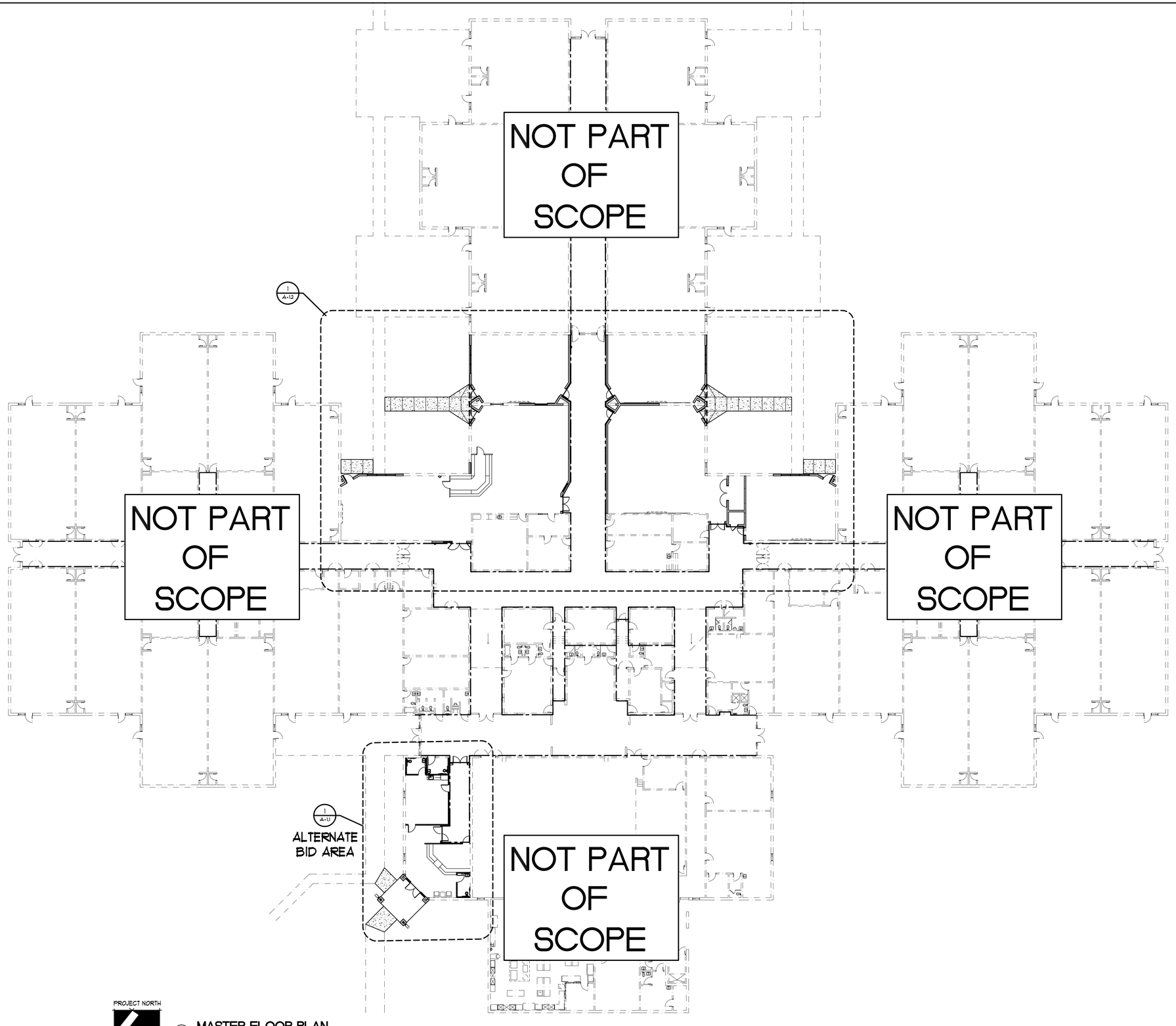
ENLARGED DEMOLITION PLAN

drawn 02/18/14 CNK	checked 02/16/14 JCZ	approved JCZ

JOHN C. ZWICK, R.A.
FL. REG. AR0009527
AA-C000568

ARCHITECTS RZK, INC.
600 FLORIDA AVENUE SUITE 202 COCOA, FLORIDA 32922 TELEPHONE (321) 631-8039

job no. 201251
A-0.1



PROJECT NORTH

1 MASTER FLOOR PLAN

SCALE: 1" = 20'

GENERAL NOTES

1. CONTRACTOR TO COORDINATE WITH THE SCSB-PM AND ARCHITECT PRIOR TO CONSTRUCTION AS TO SYSTEMS (FIRE, ELECT. AND MECH.) THAT WILL BE AFFECTED AND ENSURE THAT DATA INTEGRITY AND POWER WILL BE MAINTAINED CONTINUOUSLY THROUGHOUT DEMOLITION AND CONSTRUCTION.
2. ALL CONSTRUCTION REQUIRING THE DISRUPTION OF THE NORMAL WORKING ENVIRONMENT WILL BE SUBJECT TO APPROVAL AND COORDINATION WITH SCSB-PM.
3. TEMPORARY CONSTRUCTION BARRIERS WILL BE SET UP PRIOR TO CONSTRUCTION TO PROVIDE A DUST FREE SEAL OF THE SCSB OCCUPIED AREAS.
4. REPLACE ANY MISSING, DAMAGED, OR DIRTY CEILING TILES OR REPLACE ENTIRE CEILING IN ROOM.
5. REPAINT ALL PREVIOUS PAINTED WALLS IN RENOVATED AREAS.
6. PATCH, REPAIR & PAINT ALL ADJACENT AREAS DAMAGED BY DEMOLITION (TYPICAL).
7. ALL PLANS OF EXISTING CONDITIONS ARE BASED UPON THE ORIGINAL DESIGN DRAWINGS DATED 1974 BY ZEB LACKEY AND ASSOCIATES ARCHITECTS. EXISTING FEATURES MAY DIFFER, ESPECIALLY OUTSIDE OF THE AREAS OF MAJOR WORK.
8. ALL DIMENSIONS FROM EXISTING WALLS TO NEW FEATURES ARE FROM THE EXISTING FINISH FACE UNLESS NOTED OTHERWISE.
9. SEE ENGINEERING DRAWINGS FOR ADDITIONAL DEMOLITION REQUIREMENTS.

REVISIONS AND UPDATES

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NEW MASTER FLOOR PLAN

drawn 02/18/14 CNK	checked 02/16/14 JCZ	approved JCZ

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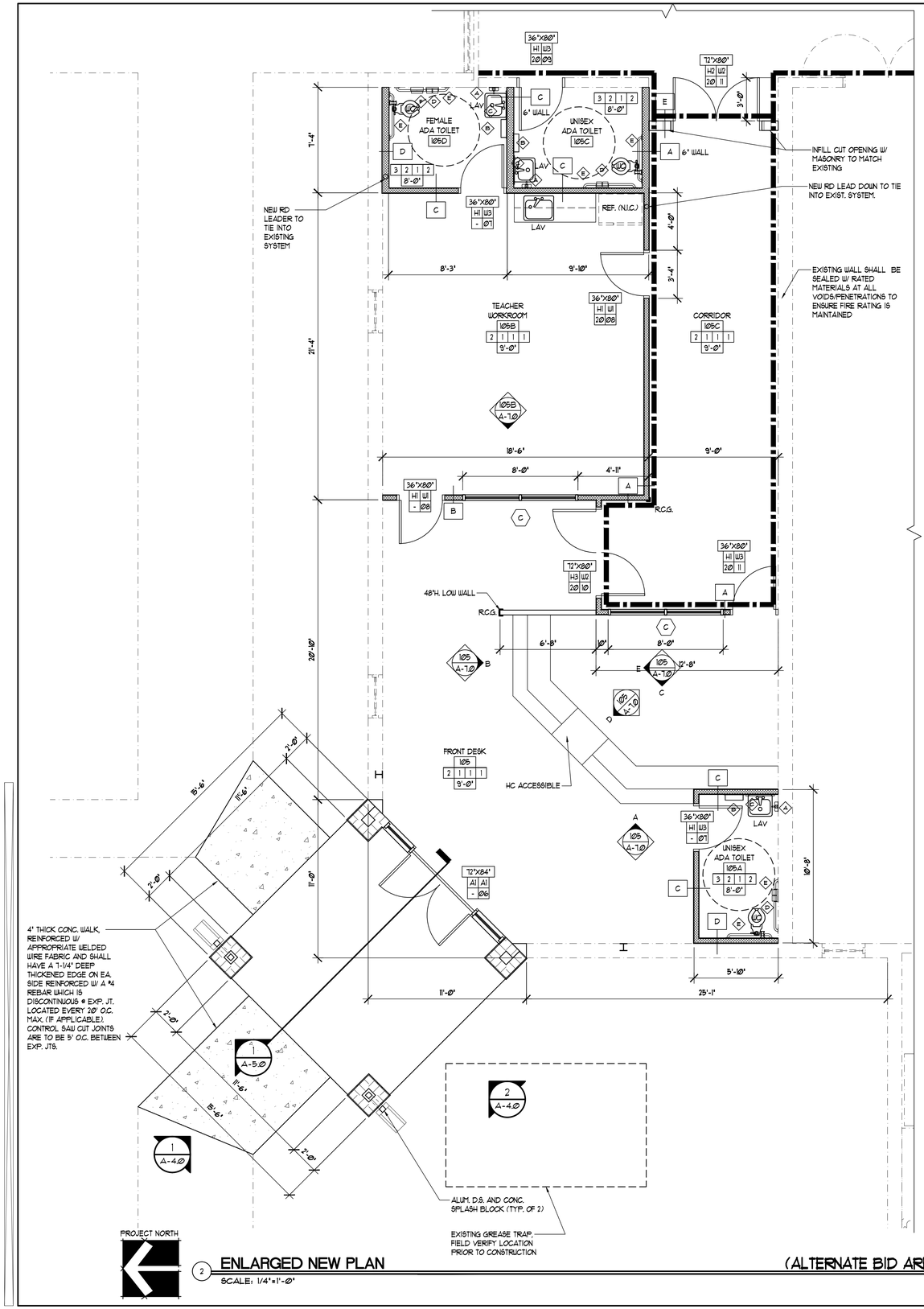
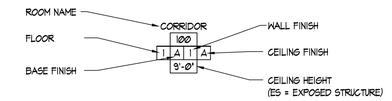


2 ENLARGED NEW PLAN (ALTERNATE BID AREA)

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

ROOM NAME AND FINISH KEY LEGEND



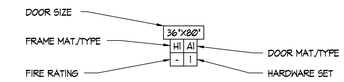
FLOOR:
1. CARPET
2. VCT
3. CERAMIC TILE
4. EPOXY PAINTED CONCRETE

WALLS:
1. PAINTED (DRYWALL OR EXISTING PATCHED AND REPAIRED)
2. EPOXY PAINTED (DRYWALL OR EXISTING PATCHED AND REPAIRED)

BASE:
1. VINYL
2. CERAMIC TILE

CEILING:
1. ACOUSTIC TILE AND GRID
2. PAINTED (DRYWALL)
3. PAINTED (EXPOSED STRUCTURE)

DOOR TYPE LEGEND



GENERAL DOOR NOTES:
1. SEE SHEET A-8.0 FOR ADDITIONAL INFORMATION

WALL LEGEND

	EXISTING CONDITION
	NOMINAL 4" OR 6" PARTITION WALL W/ ACOUSTICAL INSULATION AND 5/8" GYP. BOARD ON BOTH SIDES
	1 HR FIRE RATED ASSEMBLY
F.E.	FIRE EXTINGUISHER WALL BRACKET
R.F.E.	FIRE EXTINGUISHER IN CABINET
X.F.E.	EXISTING FIRE EXTINGUISHER IN CABINET
R.C.G.	RECESSED CORNER GUARD
H.I.W.	HIGH IMPACT WALL COVERING

GENERAL NOTES

1. CONTRACTOR TO COORDINATE WITH THE SCSB-FM AND ARCHITECT PRIOR TO CONSTRUCTION AS TO SYSTEMS (FIRE, ELECT. AND MECH.) THAT WILL BE AFFECTED AND ENSURE THAT DATA INTEGRITY AND POWER WILL BE MAINTAINED CONTINUOUSLY THROUGHOUT DEMOLITION AND CONSTRUCTION.
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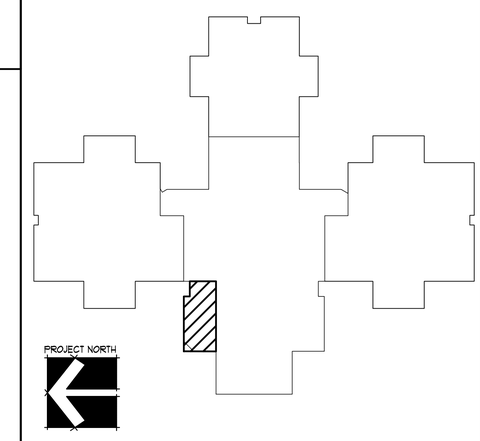
ACCESSORY LEGEND

SYMBOL	ACCESSORY DESCRIPTION	NOTES
A	SOAP DISPENSER	BY OWNER
B	PAPER TOWEL DISPENSER	BY OWNER
C	24"X 36" MIRROR	BY CONTRACTOR
D	TOILET PAPER DISPENSER	BY CONTRACTOR
E	ADA GRAB BAR	BY CONTRACTOR
F	SANITARY NAPKIN DISPOSAL	BY CONTRACTOR
MB-1	MARKER BOARD	10'W X 4'H
MB-2	MARKER BOARD	12'W X 4'H
TB-1	TACK BOARD	4'W X 4'H
TB-2	TACK BOARD	3'W X 4'H
PS	PROJECTOR SCREEN	70"W X 70"H

NOTE:
1. OWNER PROVIDED ITEMS TO BE INSTALLED BY CONTRACTOR.
2. ALL SINKS IN TOILET ROOMS TO HAVE SOAP AND PAPER TOWEL DISPENSER, PROVIDED BY OWNER, CONTRACTOR INSTALLED.
3. P.T. PLYWOOD BEHIND ALL WALL MOUNTED FIXTURES, PARTITIONS, ETC. FOR SUPPORT.

KEY PLAN



REVISIONS AND UPDATES

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SUWANNEE COUNTY SCHOOL BOARD
SUWANNEE PRIMARY SCHOOL
ADDITIONS AND REMODELING
1625 WALKER AVE., SW LIVE OAK, FLORIDA

ENLARGED NEW PLAN

drawn	checked	approved
02/18/14 CNK	02/16/14 JCZ	JCZ

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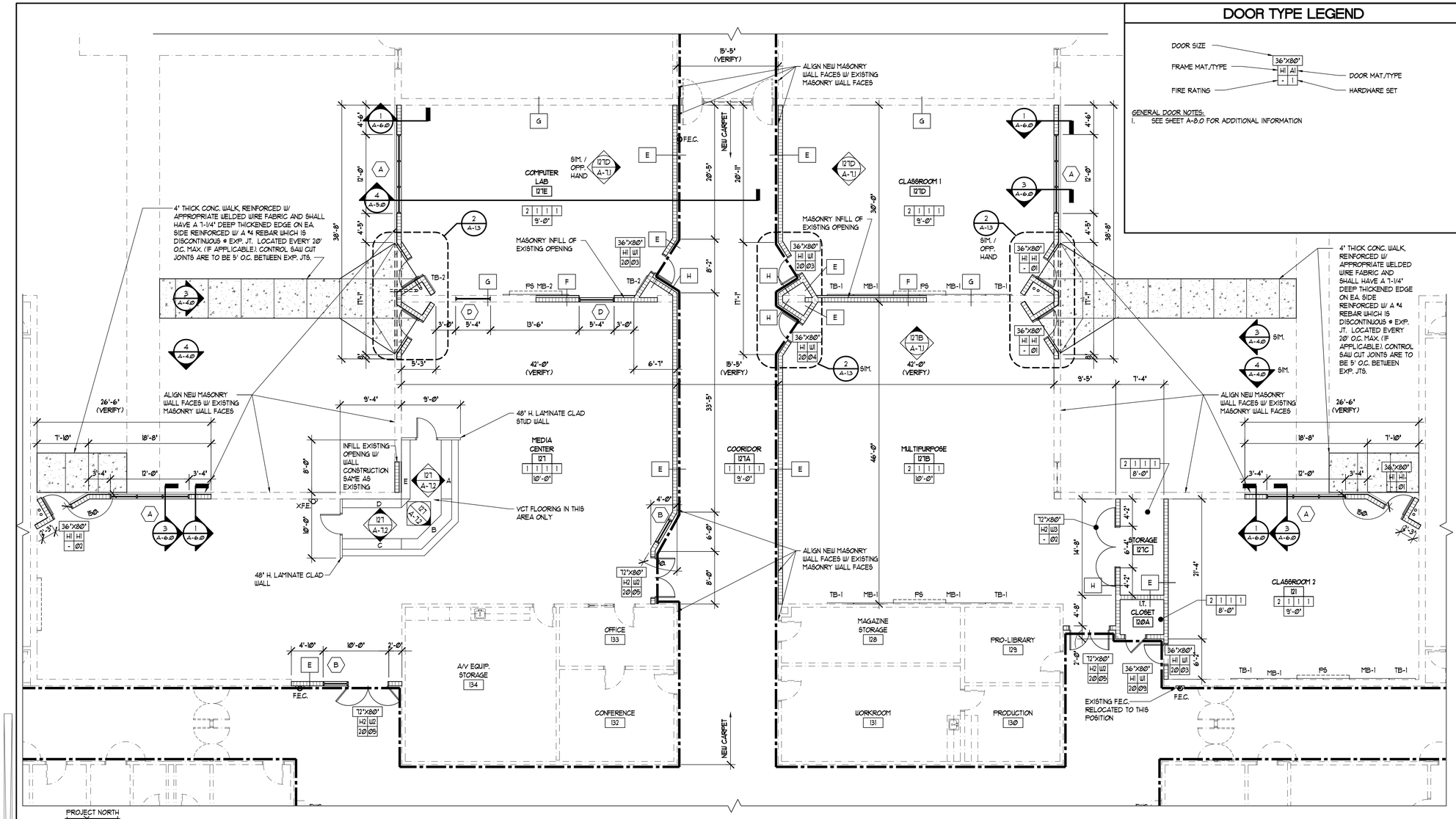
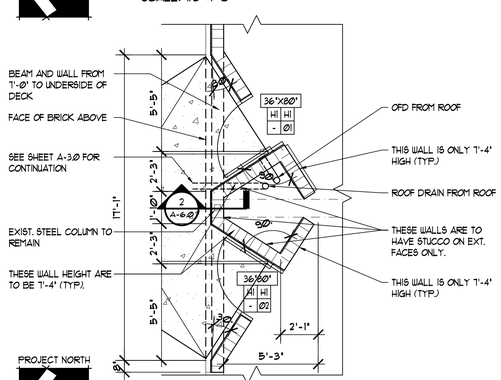


PROJECT NORTH

1 ENLARGED NEW PLAN

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



PROJECT NORTH

2 ENLARGED PLAN

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

DOOR TYPE LEGEND

DOOR SIZE — 36"X80"
FRAME MAT./TYPE — HI | AI
FIRE RATING — - | 1
DOOR MAT./TYPE
HARDWARE SET

GENERAL DOOR NOTES:
1. SEE SHEET A-8.0 FOR ADDITIONAL INFORMATION

GENERAL NOTES

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ROOM NAME AND FINISH KEY LEGEND

ROOM NAME — CORRIDOR
FLOOR — 100
BASE FINISH — 1 | A | 1 | A1
9'-0"
WALL FINISH
CEILING FINISH
CEILING HEIGHT (ES = EXPOSED STRUCTURE)

FLOOR:
1. CARPET
2. VCT
3. CERAMIC TILE
4. EPOXY PAINTED CONCRETE

WALLS:
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CEILING:
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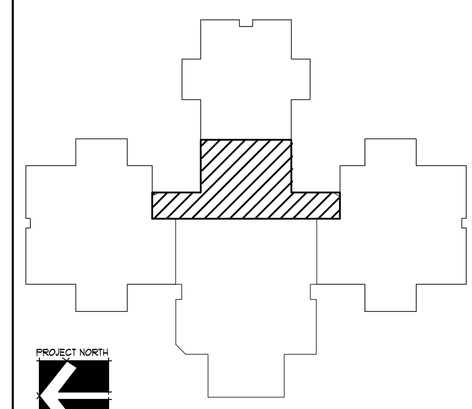
2. PAINTED (DRYWALL)
3. PAINTED (EXPOSED STRUCTURE)

KEY PLAN



PROJECT NORTH

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R.C.G. — RECESSED CORNER GUARD
H.I.W. — HIGH IMPACT WALL COVERING

GRAPHIC SCALE
4' 0 4' 8' 12' 16'
1/8"=1'-0"

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REVISIONS AND UPDATES

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SUWANNEE COUNTY SCHOOL BOARD
SUWANNEE PRIMARY SCHOOL
ADDITIONS AND REMODELING
1625 WALKER AVE., SW — LIVE OAK, FLORIDA

ENLARGED NEW PLAN

drawn	checked	approved
02/18/14 CNK	02/16/14 JCZ	JCZ

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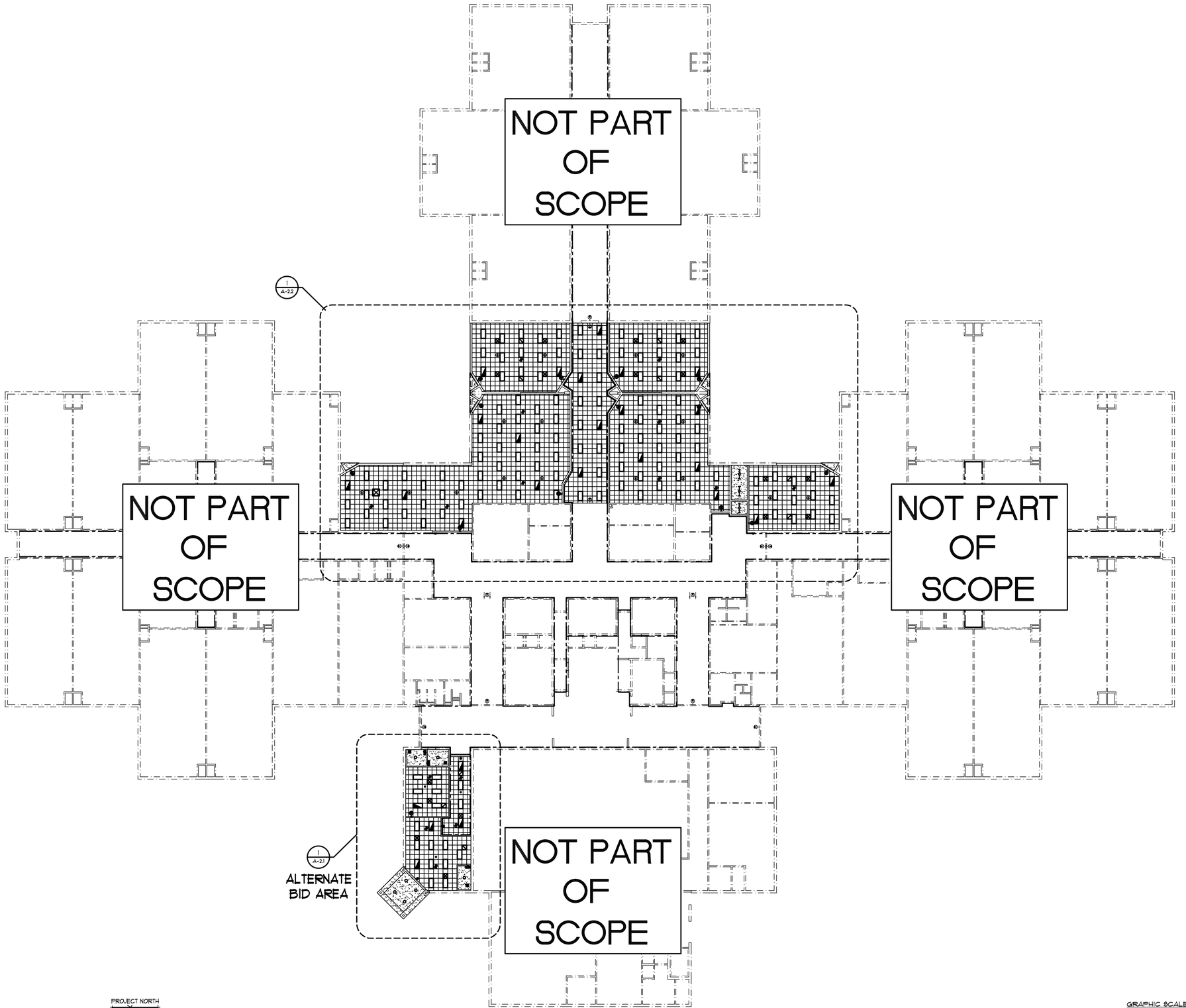

PROJECT NORTH

1 OVERALL REFLECTED FLOOR PLAN

SCALE: 1" = 20'

GRAPHIC SCALE

4' 0 4' 8' 12' 16'

1/8"=1'-0"

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REFLECTED CEILING PLAN NOTES

1. ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUED TO APPLY TO ANY SIMILAR SITUATION ELSEWHERE ON THE PROJECT EXCEPT WHERE A DIFFERENT DETAIL IS SHOWN. REFER TO FLOOR PLANS, ELEVATIONS, SECTIONS, AND SPEC. BOOK FOR ADDITIONAL DETAIL REFERENCES.
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3. REFER TO REFLECTED CEILING PLANS FOR FIRE RATED WALL LOCATIONS.
4. EVERY EFFORT MUST BE MADE TO GIVE CEILING A CLEAN AND WELL ORGANIZED APPEARANCE.
5. ANY VARIATION IN PLANS MUST BE APPROVED BY ARCHITECT PRIOR TO WORK.

REFLECTED CEILING LEGEND

- SUPPLY AIR
- RETURN AIR
- EXHAUST FAN
- DIAGONAL SHADING DENOTES EMERGENCY LIGHT FIXTURE
- 2X4 FLUORESCENT RECESSED LIGHT FIXTURE
- BARE FLUORESCENT LIGHT FIXTURE FIXTURE
- WALL MOUNTED LIGHT FIXTURE
- EXIT LIGHT FIXTURE: CEILING MOUNTED / WALL MOUNTED
- WALL MOUNT LIGHT FIXTURE
- 2X2 SUSPENDED ACOUSTICAL CEILING
- 2X4 SUSPENDED ACOUSTICAL CEILING
- GYPSUM BOARD CEILING
- STUCCO CEILING
- 1 HR FIRE RATED WALL/PARTITION
- OCCUPANCY SENSOR
- SMOKE DETECTOR
- HEAT DETECTOR
- SPEAKER
- (E) EXISTING
- (N) NEW

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SUWANNEE PRIMARY SCHOOL
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1625 WALKER AVE., SW LIVE OAK, FLORIDA

NEW REFLECTED CEILING PLAN

drawn 02/18/14 CNK	checked 02/16/14 JCZ	approved JCZ

RZK
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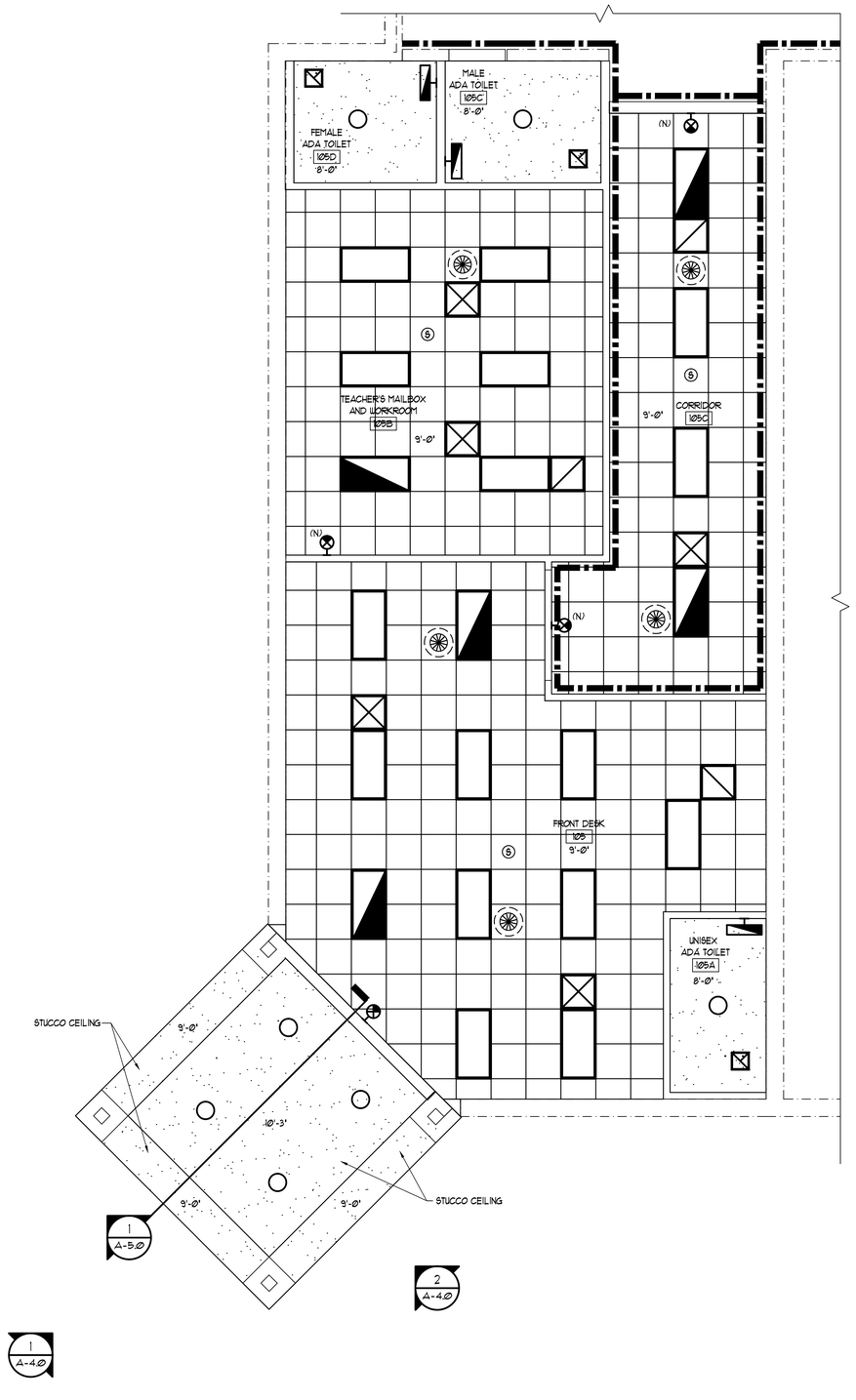

FROJECT NORTH

1 **ENLARGED NEW PLAN** (ALTERNATE BID AREA)

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

REFLECTED CEILING PLAN NOTES

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REFLECTED CEILING LEGEND

- SUPPLY AIR
- RETURN AIR
- EXHAUST FAN
- DIAGONAL SHADING DENOTES EMERGENCY LIGHT FIXTURE
- 2X4 FLUORESCENT RECESSED LIGHT FIXTURE
- BARE FLUORESCENT LIGHT FIXTURE FIXTURE
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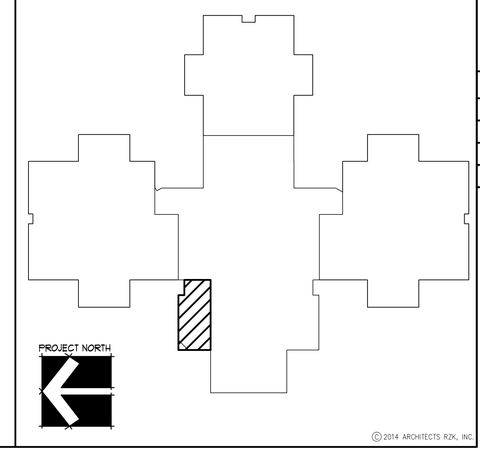
- 1 HR FIRE RATED WALL/PARTITION
- OCCUPANCY SENSOR
- SMOKE DETECTOR
- HEAT DETECTOR
- S SPEAKER
- (E) EXISTING
- (N) NEW

KEY PLAN



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NEW ENLARGED REFLECTED CEILING PLAN

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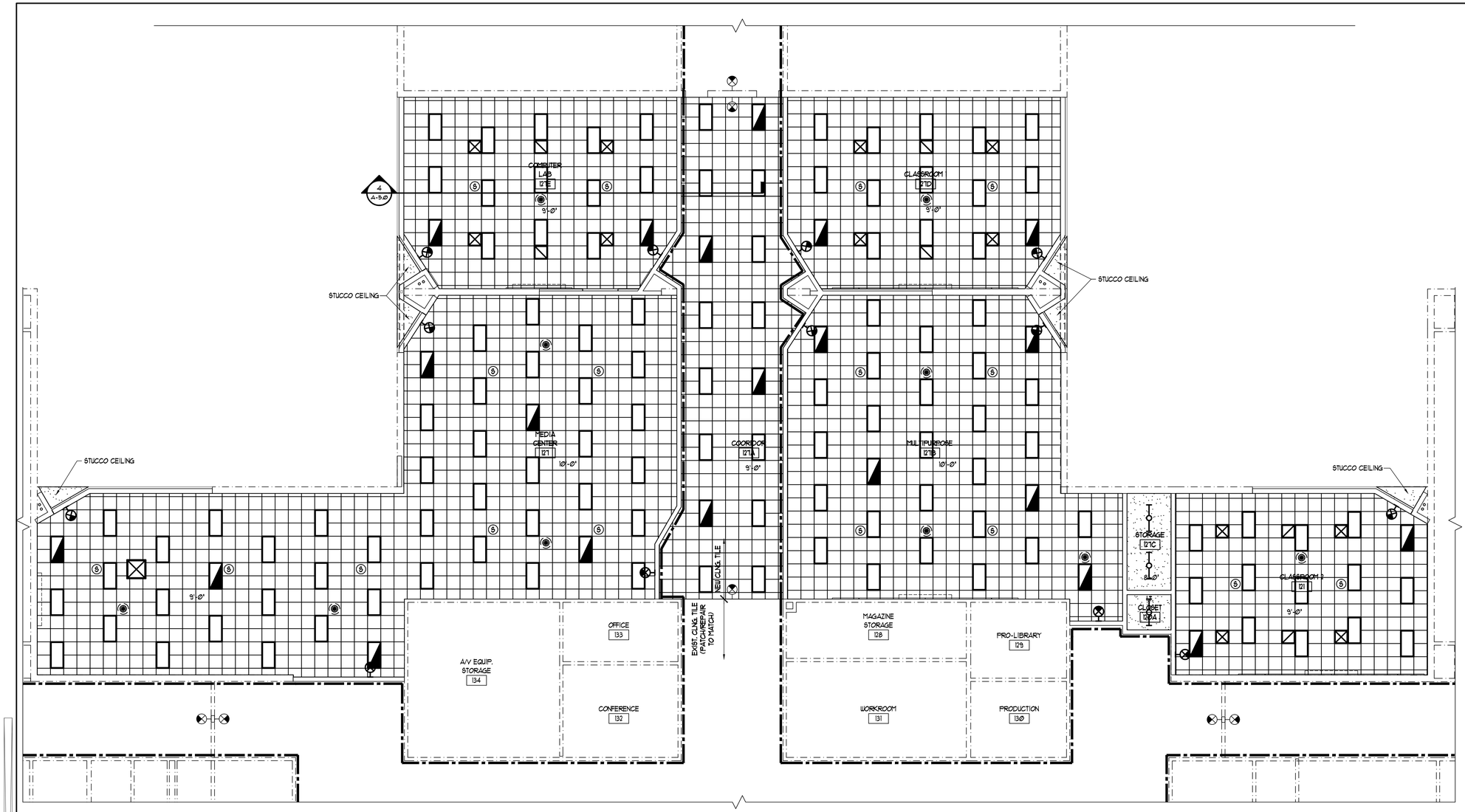


PROJECT NORTH

1 **ENLARGED NEW PLAN**

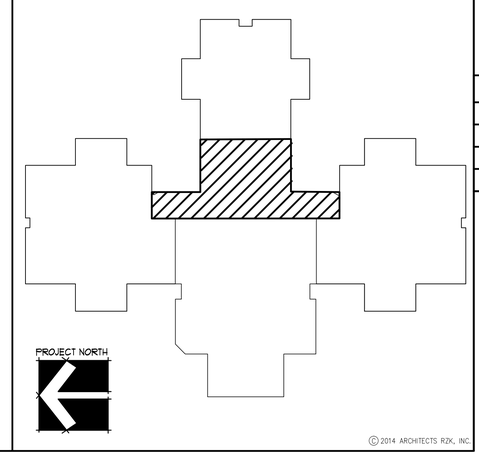
SCALE: 1/8"=1'-0"

GRAPHIC SCALE

4' 0 4' 8' 12' 16'

1/8"=1'-0"

KEY PLAN



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- HEAT DETECTOR
- SPEAKER
- (E) EXISTING
- (N) NEW

REVISIONS AND UPDATES

02/14/14		CONSTRUCTION DOCUMENTS FOR BID/PERMIT

SUWANNEE COUNTY SCHOOL BOARD
SUWANNEE PRIMARY SCHOOL
ADDITIONS AND REMODELING
1625 WALKER AVE., SW LIVE OAK, FLORIDA

NEW ENLARGED REFLECTED CEILING PLAN

drawn 02/18/14 CNK	checked 02/16/14 JCZ	approved JCZ

AA-C000568

JOHN C. ZWICK, R.A.
FL. REG. AR0009527

ARCHITECTS RZK, INC.
600 FLORIDA AVENUE SUITE 202 COCOA, FLORIDA 32922 TELEPHONE (321) 631-8039

job no. 201251

A-2.2

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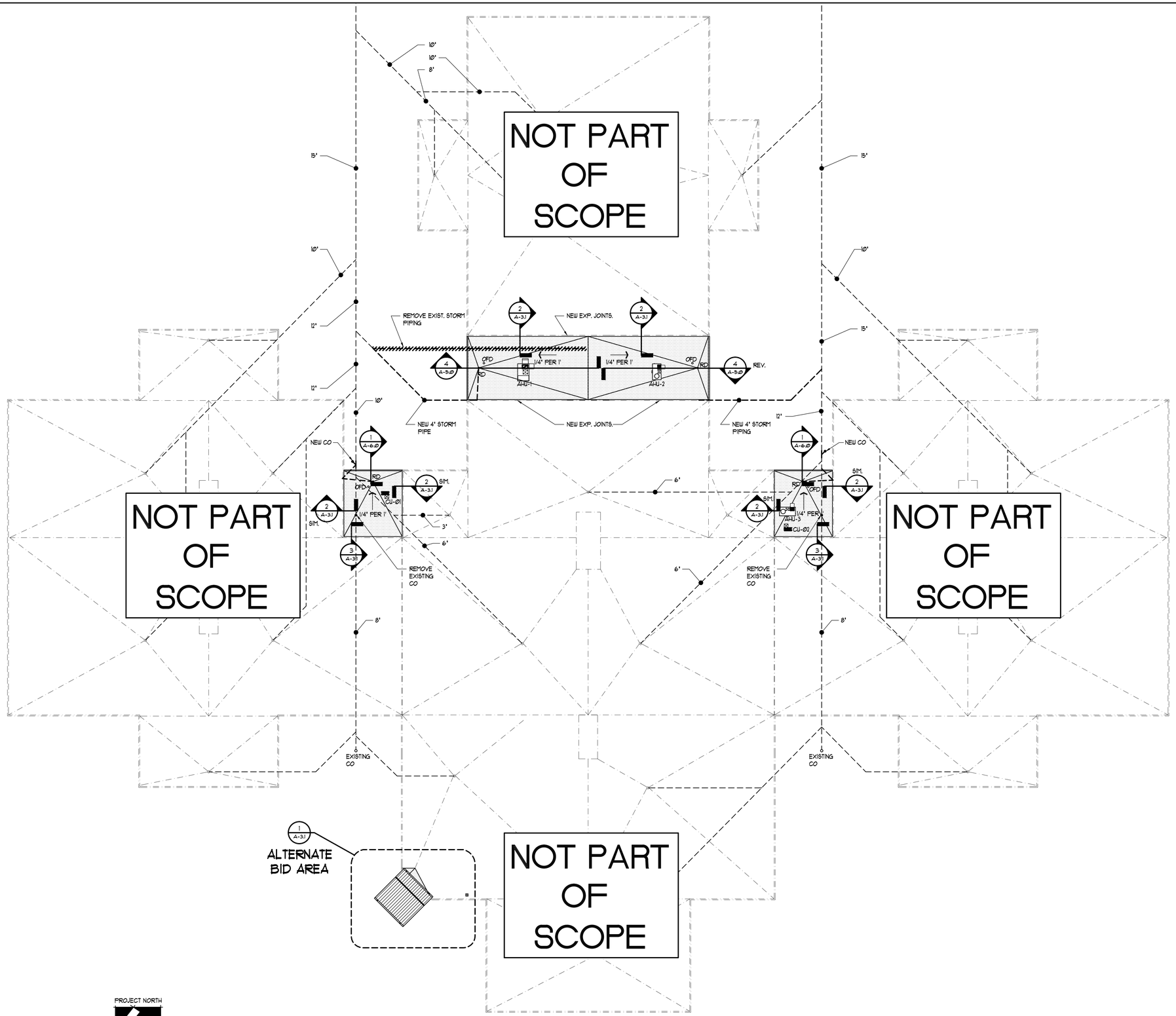

1 NEW ROOF PLAN
SCALE: 1" = 20'

ROOF PLAN NOTES

1. REFER TO DIVISION 7 THERMAL & MOISTURE IN THE SPECIFICATIONS FOR ROOF FINISHES ETC.
2. REFER TO THE ROOF DETAIL SHEETS FOR ADDITIONAL INFORMATION.
3. ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUED TO APPLY TO ANY SIMILAR SITUATION ELSEWHERE ON THE PROJECT, EXCEPT WHERE A DIFFERENT DETAIL IS SHOWN.
4. REFER TO PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR LOCATIONS OF VENTS, EQUIPT. OR OTHER ROOF PENETRATIONS.
5. THE GENERAL CONTRACTOR AND ROOFING SUB-CONTRACTOR MUST HAVE A COMPLETE UNDERSTANDING OF ALL APPLICABLE CODES, FM - LOSS PREVENTION DATA, 1999 FMRC APPROVAL GUIDE AND MANUFACTURER'S RECOMMENDATIONS.
6. PAINT ALL FLASHING, COPING, ETC. TO MATCH ADJACENT WALL COLOR.
7. THE "ON SITE" ROOFING FOREMAN MUST ATTEND THE PRE-ROOFING CONFERENCE.
8. ROOF TOP EQUIPMENT REQUIRING SERVICE SHALL NOT BE LOCATED WITHIN 10'-0" OF EDGE OF ROOF.
9. CONTRACTOR TO PROVIDE INVENTORY OF RECOMMENDED ROOF, SOFFIT, PARAPET AND OTHER EXTERIOR IMPROVEMENTS NEEDED FOR "LIKE NEW" CONDITION OF BUILDING SHELL. EXTERIOR IMPROVEMENTS SHALL BE PROVIDED AS A SEPARATE LINE ITEM(S) FOR ARCHITECT AND TENANT REVIEW.
10. ALL LARGE MECHANICAL EQUIPMENT TO BE MOUNTED ON MECHANICAL CURBS, SMALLER EQUIPMENT TO BE MOUTED ON STANDS. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

ROOF LEGEND

RD	ROOF DRAIN
RS	ROOF SCUPPER
→	SLOPE OF ROOF
OFD	OVERFLOW DRAIN
VTR	VENT THRU ROOF
	EXISTING ROOF
	EXISTING STORM DRAIN PIPING TO BE REMOVED
	EXISTING STORM DRAIN PIPING TO REMAIN
	NEW STORM DRAIN PIPING
	NEW ROOF
	NEW PATCHED ROOFING TO MATCH EXISTING OR APPROVED SUBSTITUTION PROVIDED FOR ARCHITECT APPROVAL.
	NEW METAL STANDING SEAM ROOF

REVISIONS AND UPDATES

02/14/14		CONSTRUCTION DOCUMENTS FOR BID/PERMIT

SUWANNEE COUNTY SCHOOL BOARD
SUWANNEE PRIMARY SCHOOL
ADDITIONS AND REMODELING
1625 WALKER AVE., SW LIVE OAK, FLORIDA

NEW ROOF PLAN AND DRAINAGE

drawn 02/18/14 CNK | checked 02/16/14 JCZ | approved JCZ

RZK
AA-C000568
JOHN C. ZWICK, R.A.
FL. REG. AR0009527

job no. 201251
A-3.0

ARCHITECTS RZK, INC.
600 FLORIDA AVENUE SUITE 202 COCOA, FLORIDA 32922 TELEPHONE (321) 631-8039

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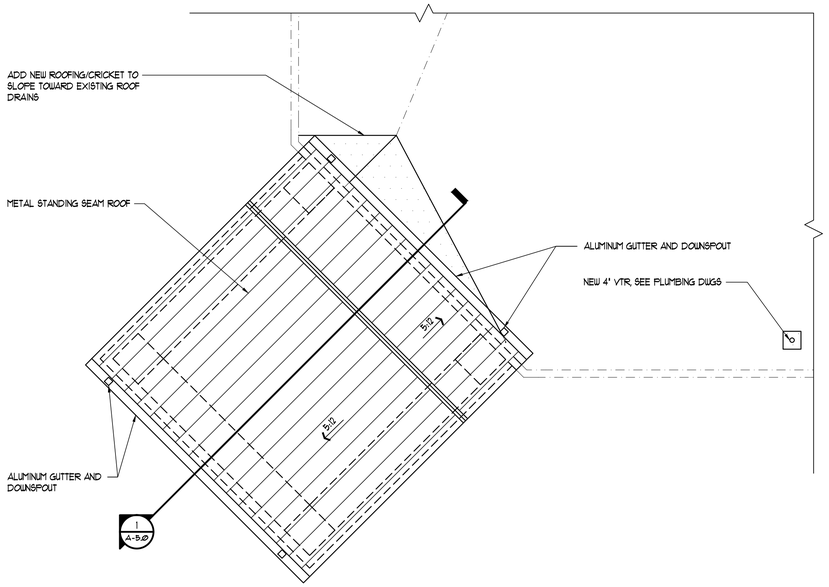

PROJECT NORTH

1 ENLARGED ROOF PLAN (ALTERNATE BID AREA)

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

MATERIALS LIST

03 STR	SEE STRUCTURAL
03 48 16	PRE-CAST CONCRETE SPLASH BLOCKS
04 STR	SEE STRUCTURAL
04 05 23	MASONRY ACCESSORIES
04 21 13	BRICK MASONRY AND ACCESSORIES
05 STR	SEE STRUCTURAL SPECIFICATIONS
05 40 00	COLD-FORMED METAL FRAMING
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06 10 53	ROUGH CARPENTRY (BLOCKING, ETC.)
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07 21 00	THERMAL BATT INSULATION
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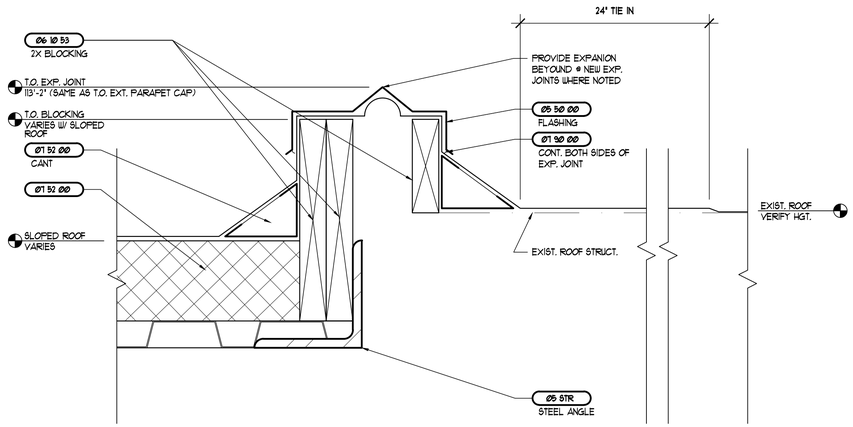
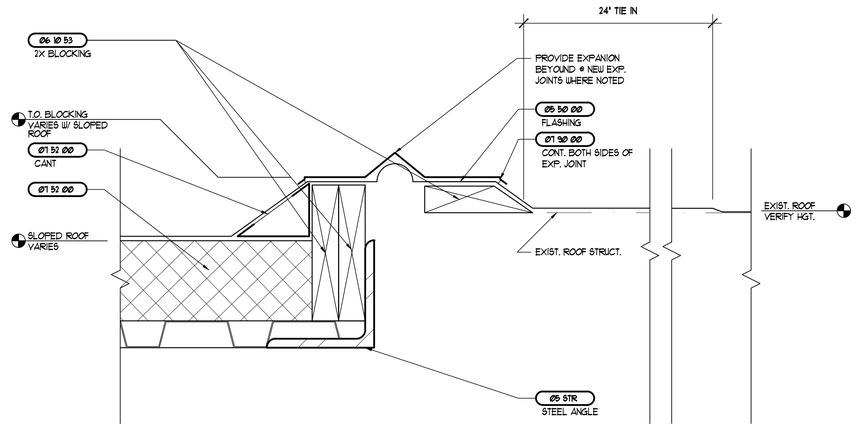
	NEW METAL STANDING SEAM ROOF



2 TYP. CURB DETAIL @ EXP. JOINT

SCALE: 3"=1'-0"



3 TYP. CURB DETAIL

SCALE: 3"=1'-0"

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REVISIONS AND UPDATES

02/14/14		CONSTRUCTION DOCUMENTS FOR BID/PERMIT

SUWANNEE COUNTY SCHOOL BOARD
SUWANNEE PRIMARY SCHOOL
ADDITIONS AND REMODELING
1625 WALKER AVE., SW LIVE OAK, FLORIDA

ENLARGED ROOF PLAN AND DETAILS

drawn 02/18/14 CNK	checked 02/16/14 JCZ	approved JCZ

AA-C001568
JOHN C. ZWICK, R.A.
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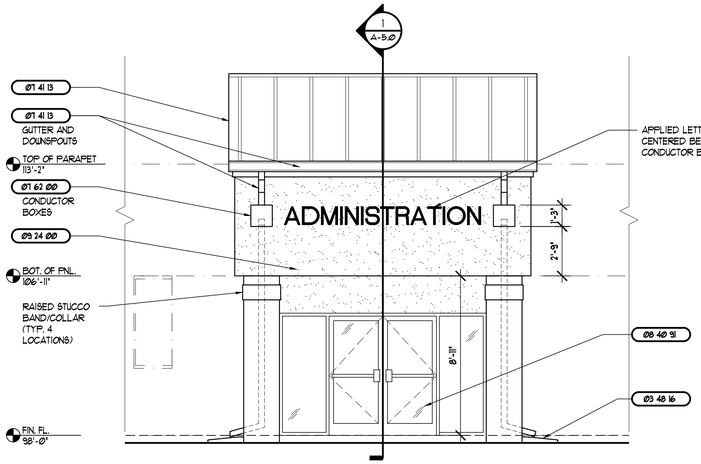
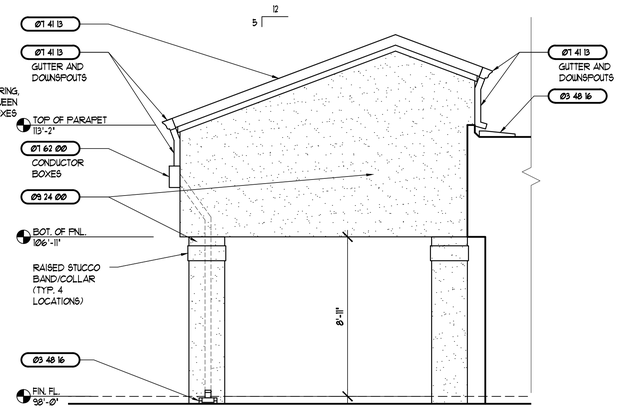
job no. 201251

A-3.1



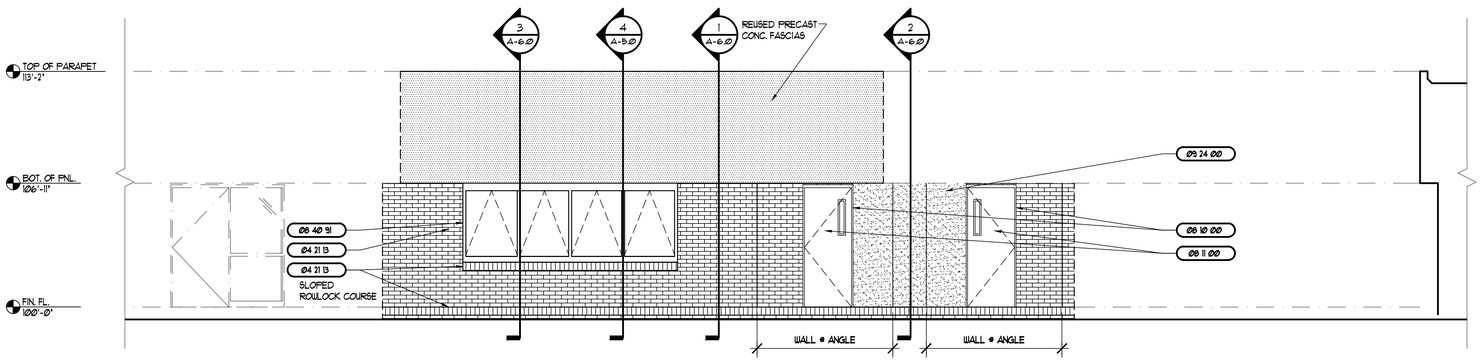
1 NEW ENTRY FRONT ELEVATION

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



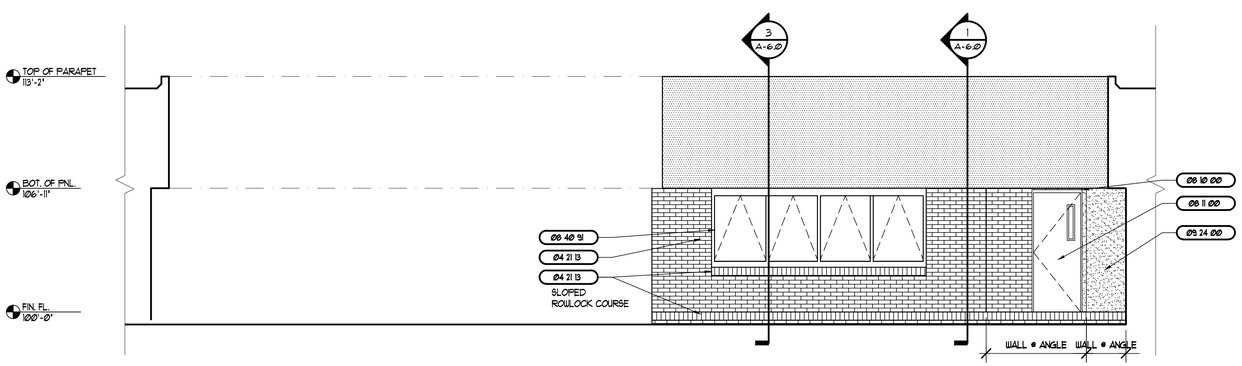
2 NEW ENTRY SIDE ELEVATION

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



3 NEW CLASSROOM ELEVATION

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



4 NEW MEDIA CENTER ELEVATION

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

GRAPHIC SCALE

2' 0 2' 4' 6' 8'

1/4" = 1'-0"

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REVISIONS AND UPDATES

02/14/14		CONSTRUCTION DOCUMENTS FOR BID/PERMIT

SUWANNEE COUNTY SCHOOL BOARD
SUWANNEE PRIMARY SCHOOL
ADDITIONS AND REMODELING
1625 WALKER AVE., SW LIVE OAK, FLORIDA

EXTERIOR ELEVATIONS

drawn	checked	approved
02/18/14 CNK	02/16/14 JCZ	JCZ

AA-C000568

JOHN C. ZWICK, R.A.
FL. REG. AR0009527

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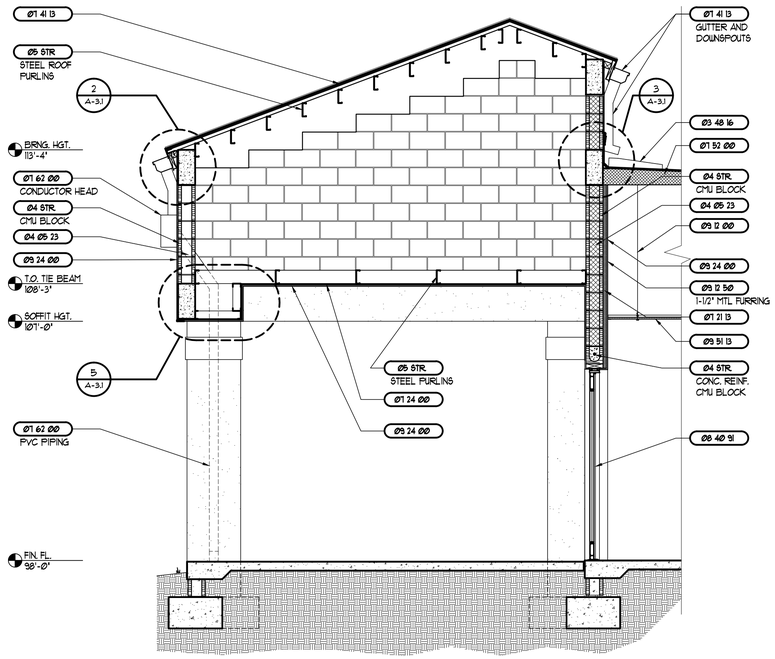
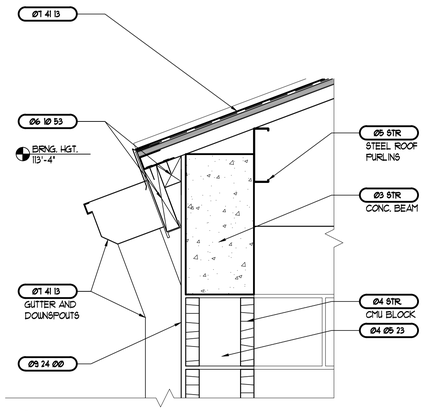
job no. 201251

A-4.0



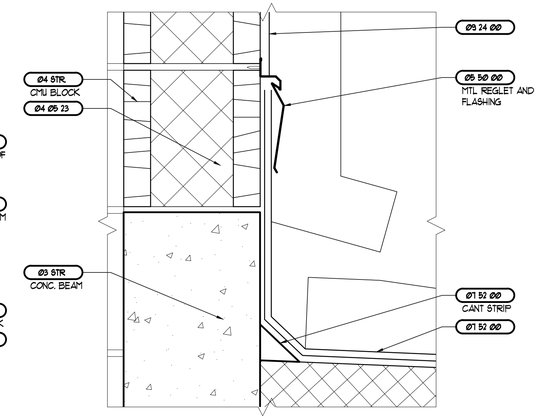
1 **BUILDING SECTION**

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



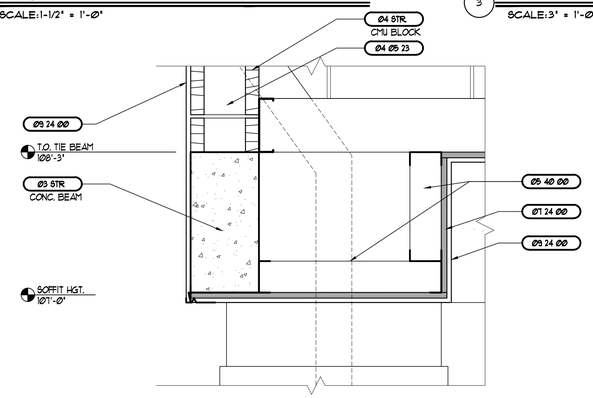
2 **FASCIA DETAIL**

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



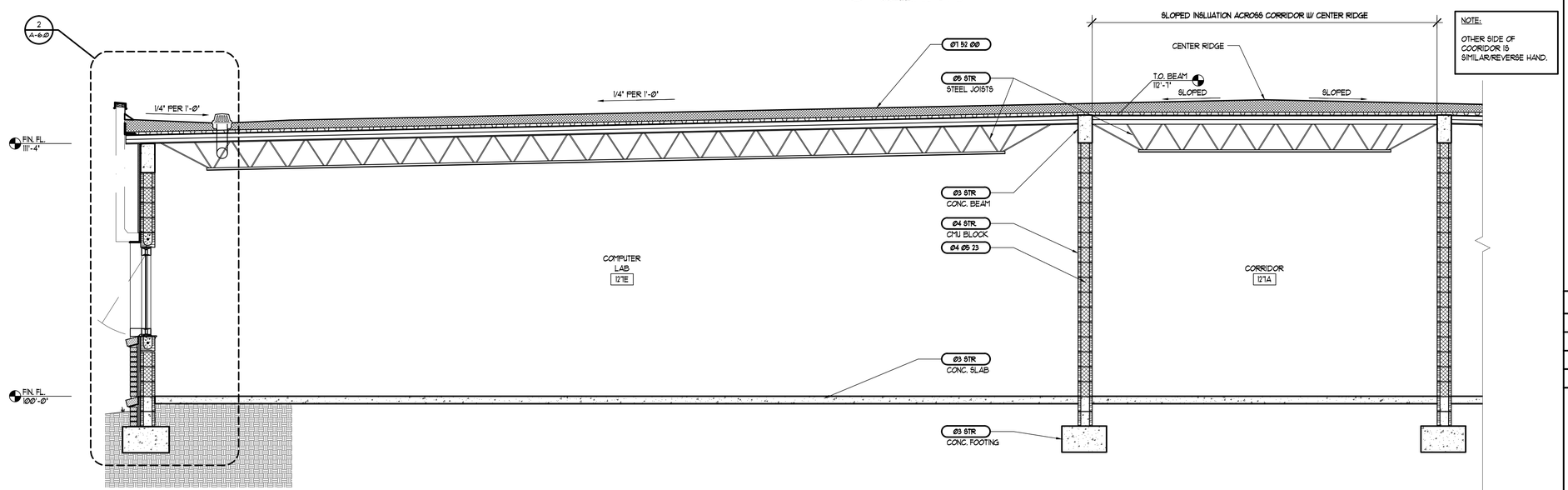
3 **CANT DETAIL**

SCALE:3" = 1'-0"



5 **SOFFIT DETAIL**

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



NOTE:

OTHER SIDE OF COORIDOR IS SIMILAR/REVERSE HAND.

4 **BUILDING SECTION**

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

GRAPHIC SCALE

8' 0' 2' 4' 6'

3/8"=1'-0"

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SUWANNEE COUNTY SCHOOL BOARD
SUWANNEE PRIMARY SCHOOL ADDITIONS AND REMODELING
1625 WALKER AVE., SW LIVE OAK, FLORIDA

BUILDING SECTIONS

drawn	checked	approved
02/18/14 CNK	02/16/14 JCZ	JCZ

AA-C000568

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job no. 20251

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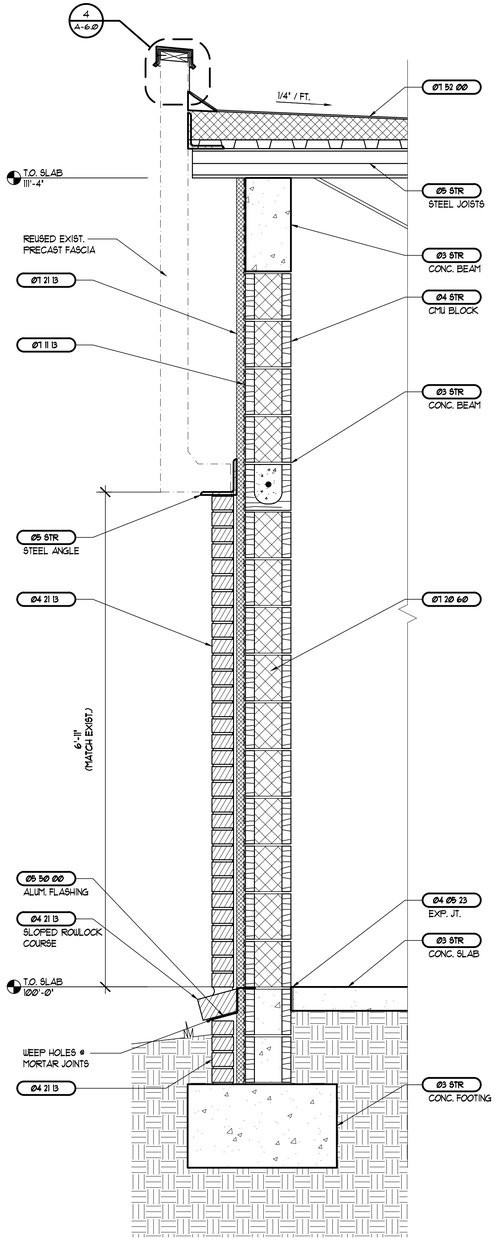
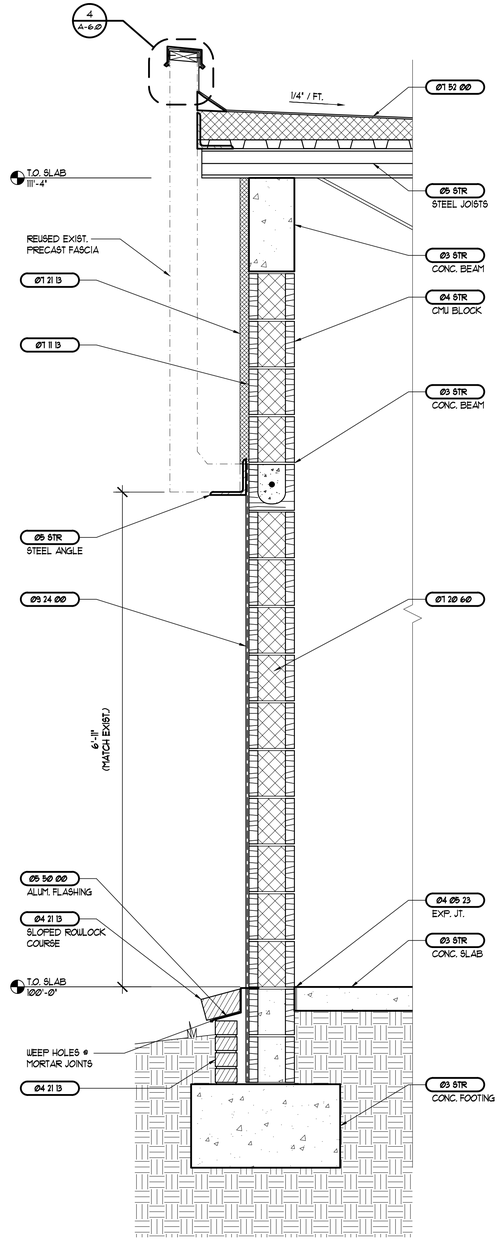


1 **WALL SECTION**
SCALE: 1" = 1'-0"



2 **WALL SECTION**
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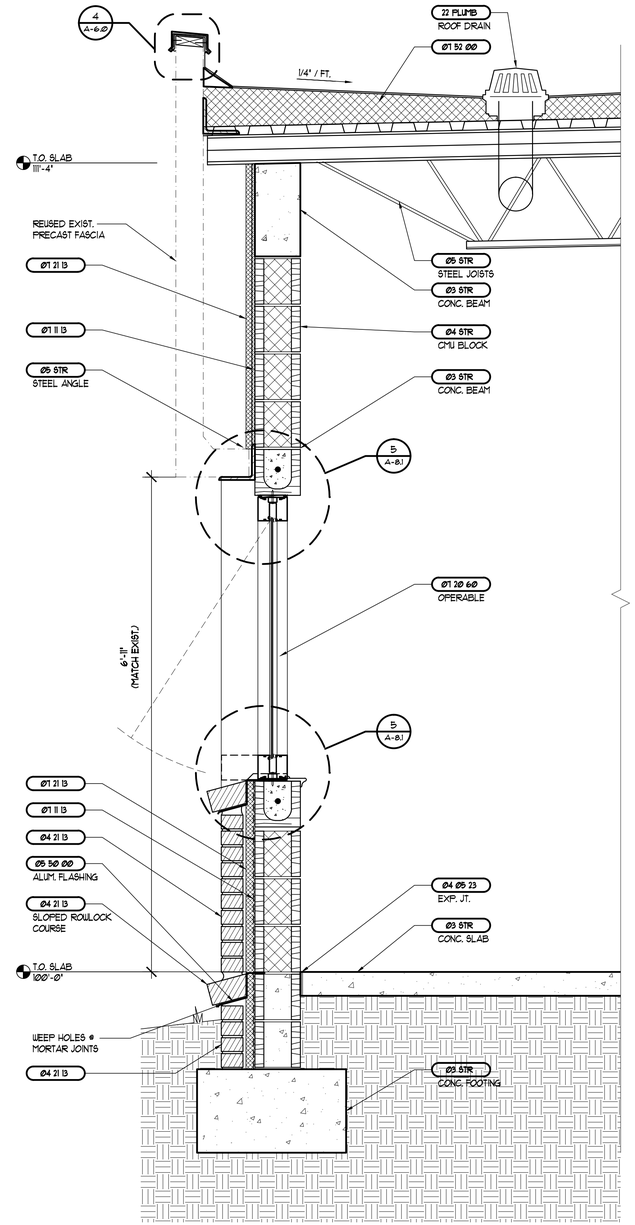

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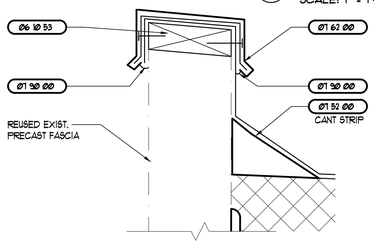

4 **PARAPET CAP DETAIL**
SCALE: 3" = 1'-0"

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07 90 00	JOINT SEALERS
08 10 00	HOLLOW METAL FRAMES
08 11 00	HOLLOW METAL DOORS
08 20 00	WOOD DOORS
08 21 00	HARDBOARD FACED DOORS
08 40 91	ALUMINUM ENTRANCE AND STOREFRONT SYSTEM
08 52 10	ALUMINUM WINDOWS
08 71 00	FINISH HARDWARE
08 80 00	GLASS AND GLAZING
09 12 00	CEILING SUSPENSION SYSTEM
09 12 50	INTERIOR NON-BEARING METAL FRAMING
09 24 00	LATH AND STUCCO
09 29 00	GYPSUM DRYWALL
09 29 10	INTERIOR TILE BACKERBOARD
09 30 00	CERAMIC TILE
09 31 00	CULTURED MARBLE
09 40 00	SOLID SURFACE COUNTERTOP
09 51 13	ACOUSTICAL CEILING PANELS
09 54 10	ACOUSTICAL INSULATION
09 65 00	RESILIENT FLOORING
09 65 10	VINYL BASE
09 68 13	VINYL CUSHION CARPET TILES
09 91 00	PAINTING
10 11 00	MARKERBOARDS
10 11 13	TACKABLE WALL PANELS
10 14 00	IDENTIFYING DEVICES
10 26 13	HIGH IMPACT WALL COVERING
10 28 00	TOILET AND BATH ACCESSORIES
10 44 00	FIRE EXTINGUISHERS AND CABINETS
10 61 00	SHELVING
11 52 13	MANUAL PROJECTION SCREENS
22 PLUMB	SEE PLUMBING SPECIFICATIONS
23 MECH	SEE MECHANICAL SPECIFICATIONS
26 ELECT	SEE ELECTRICAL SPECIFICATIONS

REVISIONS AND UPDATES

02/14/14		CONSTRUCTION DOCUMENTS FOR BID/PERMIT

SUWANNEE COUNTY SCHOOL BOARD
SUWANNEE PRIMARY SCHOOL
ADDITIONS AND REMODELING
1625 WALKER AVE., SW LIVE OAK, FLORIDA

WALL SECTIONS

drawn	02/18/14	CNK	checked 02/16/14	JCZ	approved JCZ

AA-C000568
JOHN C. ZWICK, R.A.
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job no. 201251
A-6.0

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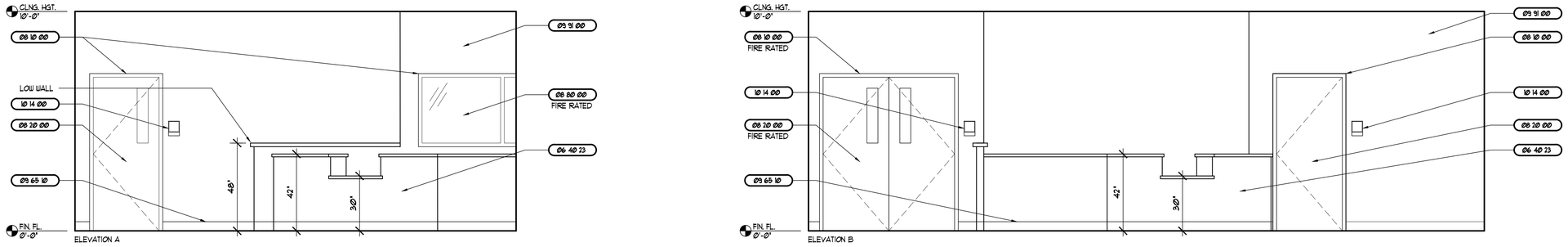
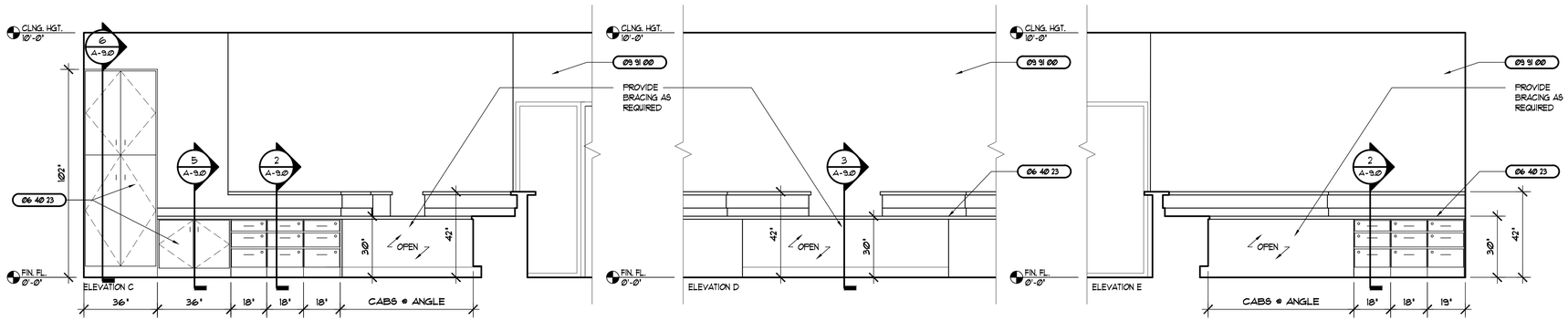
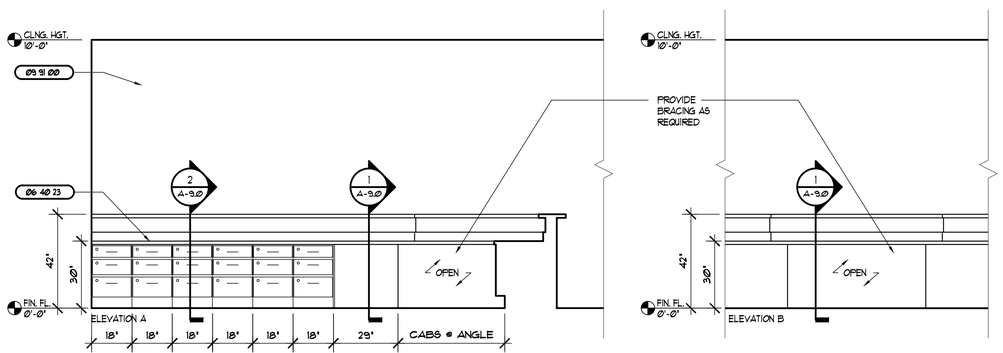


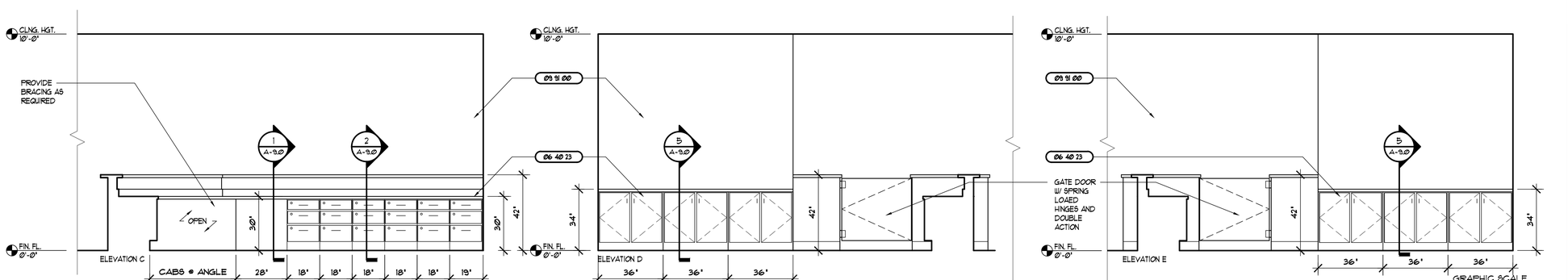
10B **FRONT DESK**
SCALE: 3/8" = 1'-0"



10B **FRONT DESK**
SCALE: 3/8" = 1'-0"



12T **MEDIA CENTER**
SCALE: 3/8" = 1'-0"



12T **MEDIA CENTER**
SCALE: 3/8" = 1'-0"

GRAPHIC SCALE
8' 0' 2' 4' 6'
3/8" = 1'-0"

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MATERIALS LIST

03 STR	SEE STRUCTURAL
03 48 16	PRE-CAST CONCRETE SPLASH BLOCKS
04 STR	SEE STRUCTURAL
04 05 23	MASONRY ACCESSORIES
04 21 13	BRICK MASONRY AND ACCESSORIES
05 STR	SEE STRUCTURAL SPECIFICATIONS
05 40 00	COLD-FORMED METAL FRAMING
05 50 00	METAL FABRICATIONS
06 10 53	ROUGH CARPENTRY (BLOCKING, ETC.)
06 11 00	ROUGH HARDWARE
06 40 23	ARCHITECTURAL LAMINATE CASEWORK
06 65 00	RECYCLED PLASTIC LUMBER
07 11 13	BITUMINOUS DAMPROOFING
07 20 60	MASONRY FOAM FILL INSULATION
07 21 00	THERMAL BATT INSULATION
07 21 13	SEMI-RIGID WALL INSULATION (FOIL FACED)
07 24 00	SUBSTRATE SHEATHING
07 41 13	PREFORMED METAL ROOFING, SIDING, SOFFIT AND TRIM
07 52 00	SBS MODIFIED BITUMINOUS ROOF SYSTEM
07 62 00	PREFABRICATED PARAPET TOP AND COLLECTOR BOX
07 84 10	FIRE RATED PENETRATIONS AND JOINTS
07 90 00	JOINT SEALERS
08 10 00	HOLLOW METAL FRAMES
08 11 00	HOLLOW METAL DOORS
08 20 00	WOOD DOORS
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REVISIONS AND UPDATES

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SUWANNEE COUNTY SCHOOL BOARD
SUWANNEE PRIMARY SCHOOL
ADDITIONS AND REMODELING
1625 WALKER AVE., SW LIVE OAK, FLORIDA

INTERIOR ELEVATIONS

drawn	checked	approved
02/18/14 CNK	02/16/14 JCZ	JCZ

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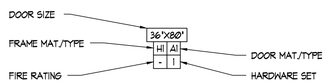
job no. 201251

A-7.0

DOOR HARDWARE SETS

SET	HARDWARE											REMARKS
	HINGES	LOCKSET(S)	DEAD BOLT	CLOSER(S)	KICKPLATE(S)	THRESHOLD	WEATHER STRIP.	FLUSH BOLT	DOOR STOP(S)	RAIN DRIP	PANIC	
01	B	B	-	A	A	A	A	-	A	-	-	
02	B	-	-	A	A	A	A	-	A	-	A	
03	A	B	-	A	A	A	B	-	A	-	-	
04	A	-	-	A	A	-	B	-	A	-	A	
05	A	-	-	A	A	A	B	-	A	-	A	
06	#	-	-	#	-	A#	#	-	-	-	#	# = PER SPEC SECTION 08 40 90
07	A	-	-	A	A	B	B	-	C	-	-	
08	A	A	-	A	A	-	B	-	A	-	-	
09	A	C	-	A	-	-	B	*	A	-	-	

DOOR TYPE LEGEND



GENERAL DOOR NOTES:
1. SEE SHEET A-8.0 FOR ADDITIONAL INFORMATION

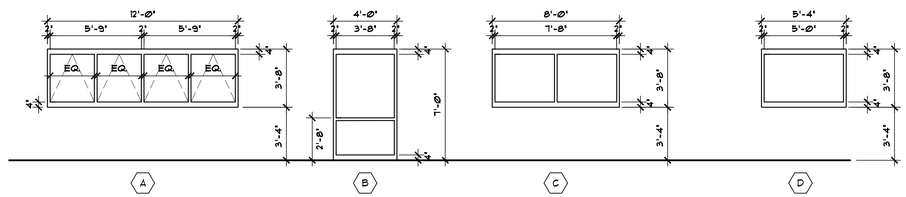
DOOR HARDWARE SCHEDULE

HINGES	A = BB STEEL
	B = BB STAINLESS STEEL
LOCKSETS	A = OFFICE FUNCTION (SCHLAGE RHODES 'RD' - SERIES)
	B = CLASSROOM SECURITY FUNCTION (SCHLAGE RHODES 'RD' - SERIES)
	C = STOREROOM FUNCTION (SCHLAGE RHODES 'RD' - SERIES)
	D = EXIT LOCK FUNCTION / BLANK ON INACTIVE SIDE (SCHLAGE RHODES 'RD' - SERIES)
	E = STOREROOM FUNCTION (SCHLAGE RHODES 'L' - SERIES) MORTISE
	F = CYPHER FUNCTION (SCHLAGE 'PRO' SERIES CYLINDRICAL - SERIES W/ 06 LEVER TRIM)
	G = PASSAGE FUNCTION (SCHLAGE RHODES 'RD' - SERIES)
	H = PRIVACY FUNCTION
DEAD BOLTS	A = CLASSROOM FUNCTION (SCHLAGE 'B' SERIES)
	B = SURFACE FUNCTION (IVES 5B453 TB, US 32D)
CLOSERS	A = LCN 4010/4111 SERIES (PARALLEL ARM, ADA)
	B = LCN 4010/4111 SERIES (INSIDE MOUNTED ARM)
KICKPLATE	A = IVES 8400 SERIES (US32D)
DOOR STOPS	A = IVES US SERIES (W/ ADEQUATE BACK BLOCKING)
	B = GLYNN JOHNSON (450 SERIES) OVERHEAD TYPE
	C = IVES FLOOR STOP SERIES
THRESHOLD	A = ADA COMPLIANT PER SPEC
	B = MARBLE (SEE TILE SPECIFICATIONS)
	C = VINYL CARPET EDGE (SEE VCT SPECIFICATIONS)
WEATHERSTRIP	A = PER SPEC
	B = PEMKO 588
PANIC	A = VON DUPRIN

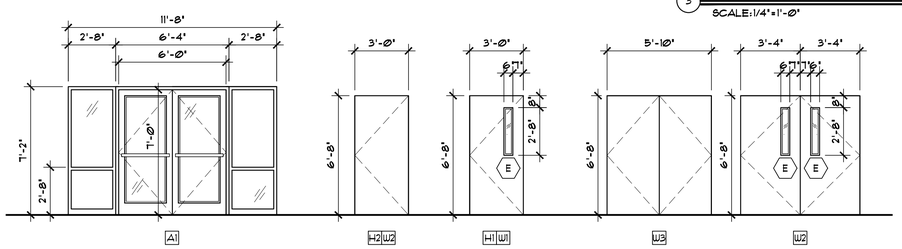
WINDOW SCHEDULE

MARK	APPROXIMATE SIZE (W X H)	F.R. TYPE	GLASS	DETAILS				LOCATION	REMARKS
				HEAD	JAMB	SILL	MULLION		
A	12'-0" X 3'-8"	ALUMINUM	INSULATED	5/A-8.1	5/A-8.1	5/A-8.1	-	VARIES (SEE PLAN)	
B	4'-0" X 7'-0"	ALUMINUM	TEMPERED	6/A-8.1	6/A-8.1	6/A-8.1	-	VARIES (SEE PLAN)	SEE NOTE 1
C	8'-0" X 3'-8"	H.M.	CLEAR FLOAT	7/A-8.1	7/A-8.1	7/A-8.1	-	FRONT DESK	SEE NOTE 2
D	5'-4" X 3'-8"	H.M.	TEMPERED	6/A-8.1	6/A-8.1	6/A-8.1	-	COMPUTER LAB	SEE NOTE 1
E	6" X 2'-8"	STEEL	SEE NOTE 2	-	-	-	-	DOOR LITES	SEE NOTE 2

NOTE:
1. ALL INTERIOR GLASS TO BE CLEAR.
2. PROVIDE CLEAR TEMPERED GLASS AT NON-RATED AND CLEAR FIRE RATED GLASS AT RATED DOORS.

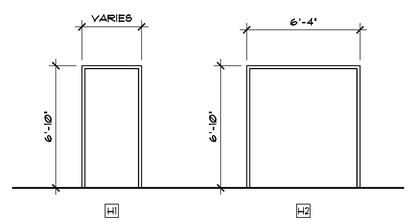


3 WINDOW TYPES
SCALE:1/4"=1'-0"



A = ALUMINUM
H = HOLLOW METAL
W = WOOD

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



H = HOLLOW METAL

2 FRAME TYPE
SCALE:1/4"=1'-0"

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REVISIONS AND UPDATES		
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SUWANNEE COUNTY SCHOOL BOARD
SUWANNEE PRIMARY SCHOOL
ADDITIONS AND REMODELING
1625 WALKER AVE., SW LIVE OAK, FLORIDA

DOOR AND WIN. SCHEDULES AND TYPES

drawn 02/18/14 CNK	checked 02/16/14 JCZ	approved JCZ

JOHN C. ZWICK, R.A.
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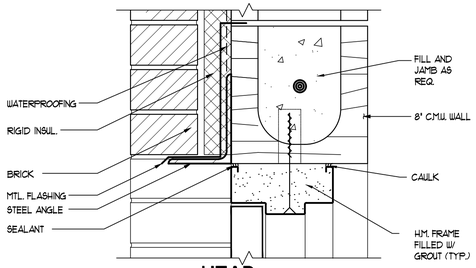

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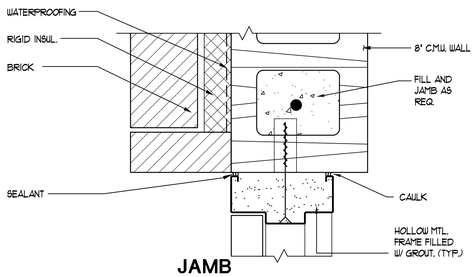

JAMB

1 EXTERIOR DOOR DETAILS

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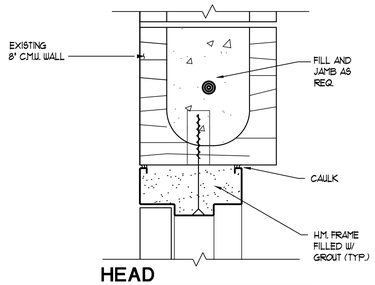

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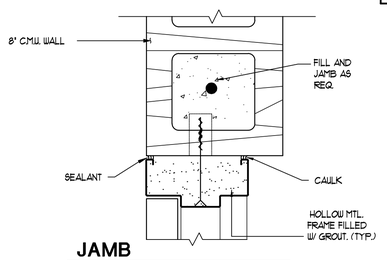


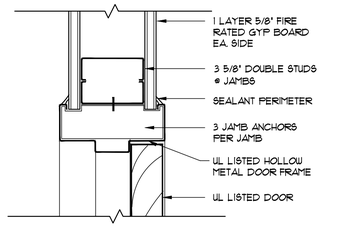
JAMB

2 INTERIOR DOOR DETAILS

SCALE:3"=1'-0"

NOTE:

SEAT FRAME AT EDGE FOR 120 - 180 DEGREE SWINGS



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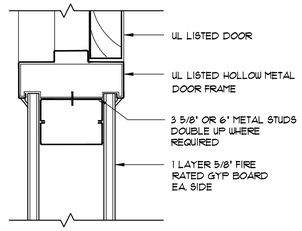
UL# U465



JAMB

UL# U465

3 RATED DOOR DETAILS

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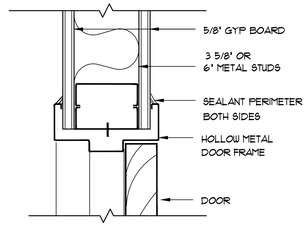

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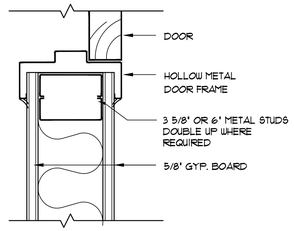

JAMB

4 INTERIOR DOOR DETAILS

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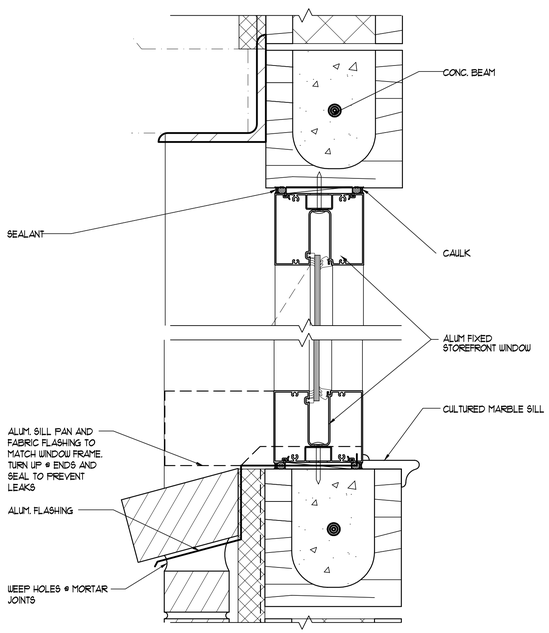

5 EXTERIOR WINDOW DETAILS

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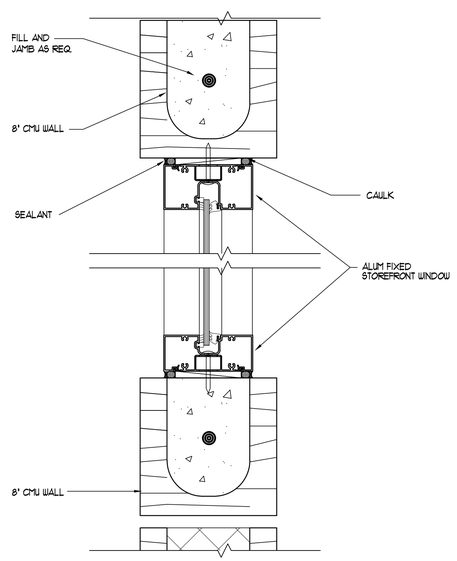

6 INTERIOR WINDOW DETAILS

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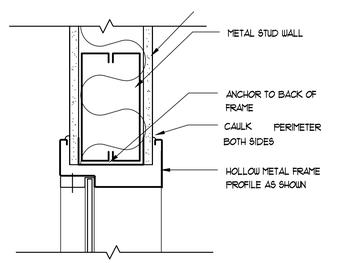

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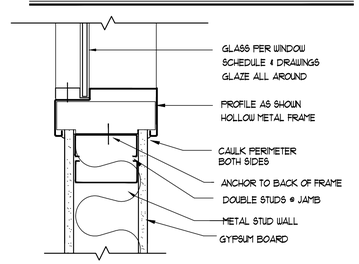

SILL / JAMB

7 RATED WINDOW DETAILS

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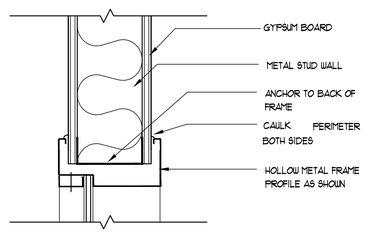

HEAD / JAMB

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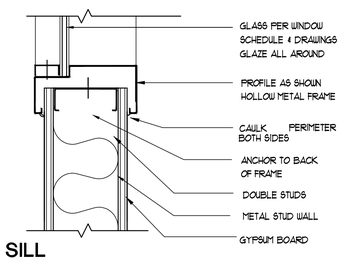

SILL

SCALE 3" = 1'-0"

7 INTERIOR WINDOW DETAILS

SCALE:3"=1'-0"

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REVISIONS AND UPDATES		
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SUWANNEE COUNTY SCHOOL BOARD

SUWANNEE PRIMARY SCHOOL ADDITIONS AND REMODELING

1625 WALKER AVE., SW LIVE OAK, FLORIDA

DOOR AND WINDOWS DETAILS

drawn 02/18/14 CNK	checked 02/16/14 JCZ	approved JCZ

AA-C000568

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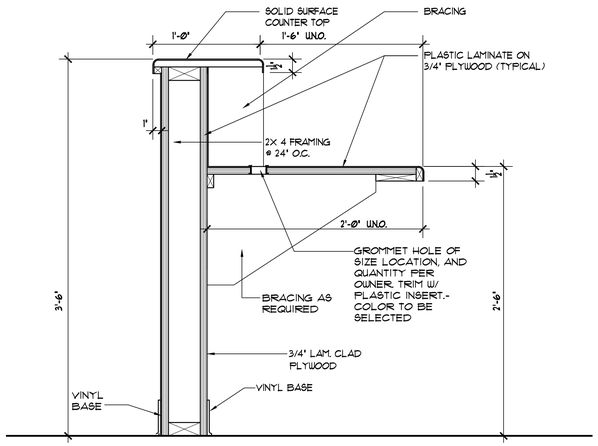

1 RECEPTIN DESK

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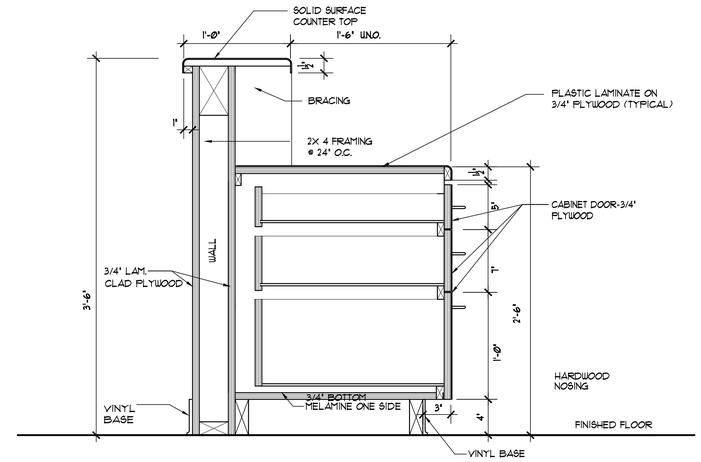
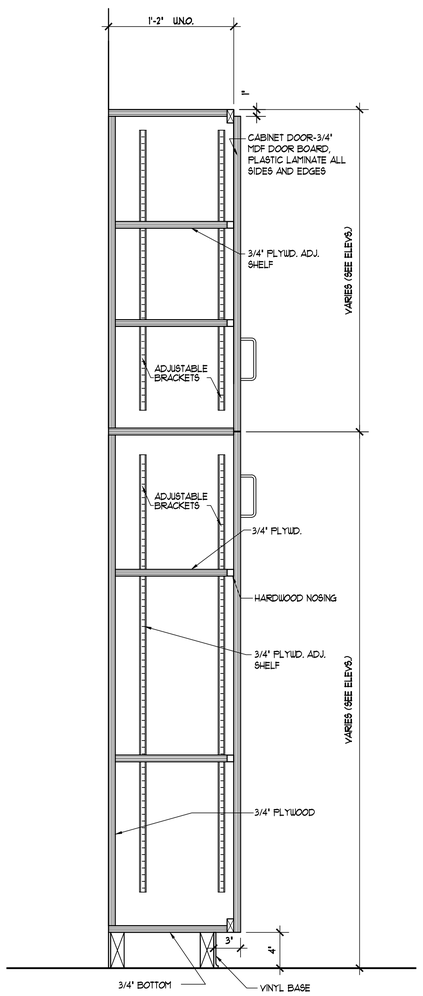


2 RECEPTIN DESK W/ DRAWERS

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



6 STACKED CABINETRY

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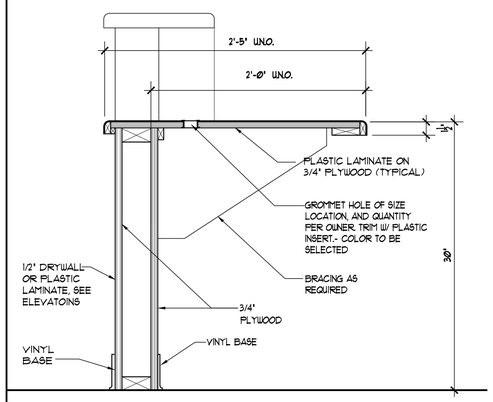

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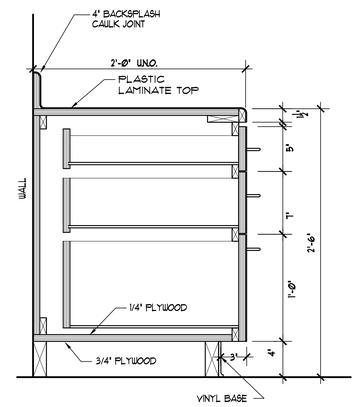

4 RECEPTIN DESK

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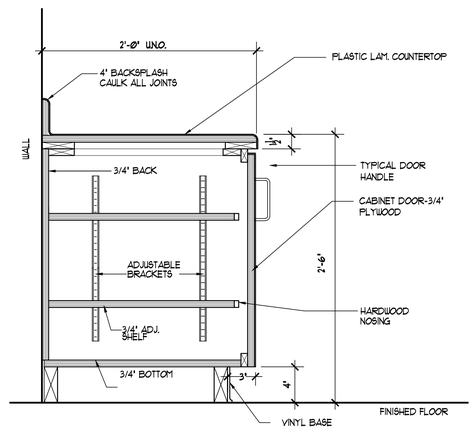

5 RECEPTIN DESK

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

GRAPHIC SCALE

8' 0' 2' 4' 6'

3/8"=1'-0"

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GENERAL CABINETRY NOTES

1. CONTRACTOR TO SUBMIT SHOP DRAWINGS TO INCLUDE ATTACHMENT DETAILS VERIFYING CABINET ASSEMBLIES WILL BE SECURED PER FBC STANDARDS. SECURING AND ATTACHEMTN METHODS WILL BE REVIEWED AND APPROVED BY ARCHITECT/ENGINEER.
2. PLUMBING AND CASEWORK CONTRACTOR TO COORDINATE SINK LOCATION CONNECTION AND CUT-OUT.
3. SEE INTERIOR ELEVATIONS FOR CABINETRY HEIGHT AND PLUMBING SPECIFICATIONS FOR SINK TYPE.
4. SEE SPECIFICATIONS FOR ALL DOOR AND DRAWER HARDWARE.
5. P.T. PLYWOOD OR SHEET METAL SHALL BE INSTALLED BEHIND ALL MOUNTED FIXTURES, CABINETRY, PARTITIONS ETC. FOR SUPPORT. ANCHOR UNIT SECURELY TO WALL ON CONCEALED IN-WALL BACK BRACING.
6. CASEWORK TO BE FRAMELESS CABINETS. DISCARD DETAILS THAT SHOW FACE FRAME CONSTRUCTION.
7. CASE WORK TO HAVE PLASTIC LAMINATE ON THE EXTERIOR SURFACES, MELAMINE ON THE INTERIOR SURFACES AND NO EXPOSED FASTENERS.

REVISIONS AND UPDATES

02/14/14		CONSTRUCTION DOCUMENTS FOR BID/PERMIT

SUWANNEE COUNTY SCHOOL BOARD
SUWANNEE PRIMARY SCHOOL
ADDITIONS AND REMODELING
1625 WALKER AVE., SW LIVE OAK, FLORIDA

CABINETRY DETAILS

drawn 02/18/14 CNK	checked 02/16/14 JCZ	approved JCZ

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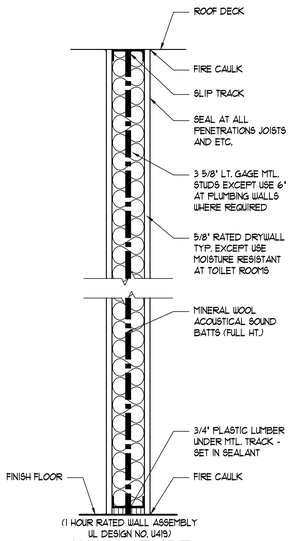

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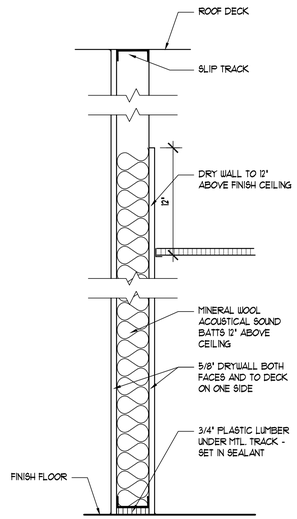

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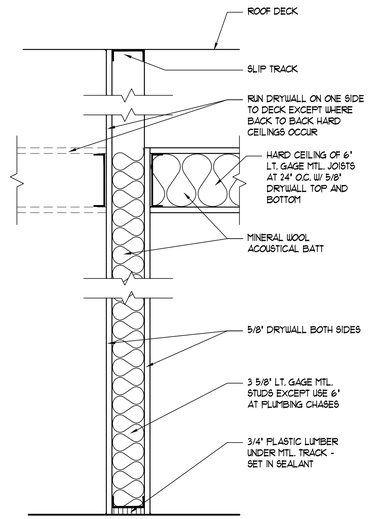

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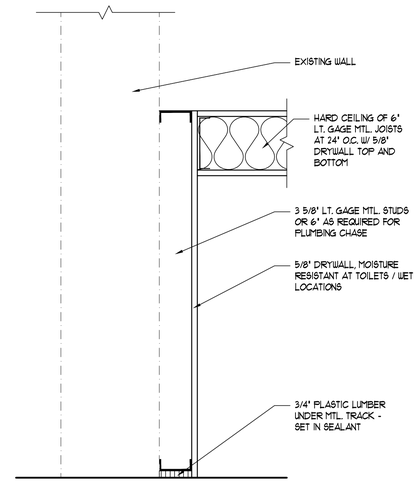

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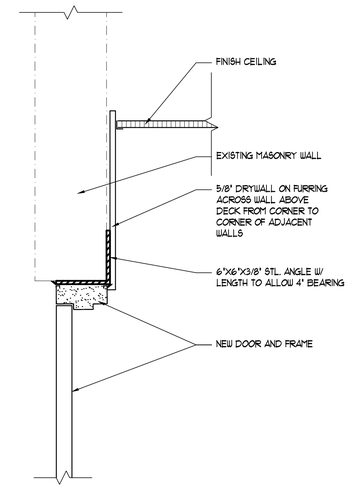

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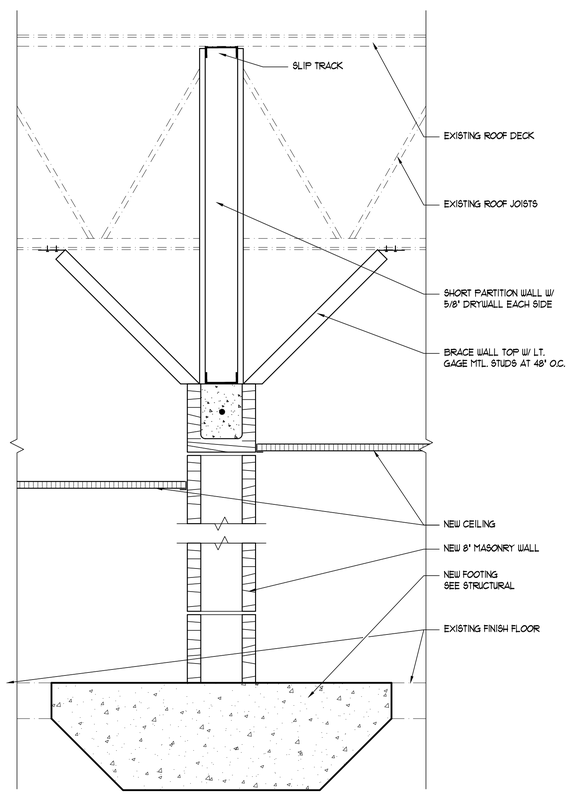

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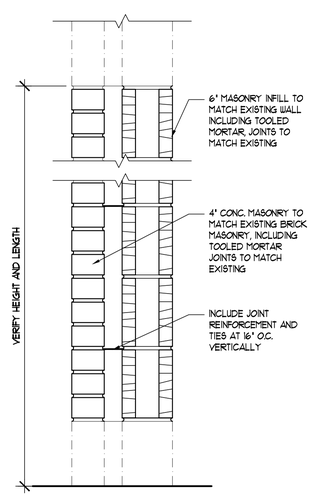

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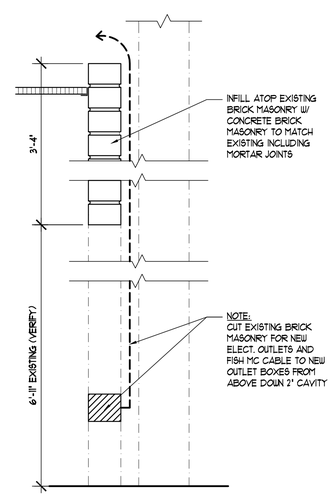

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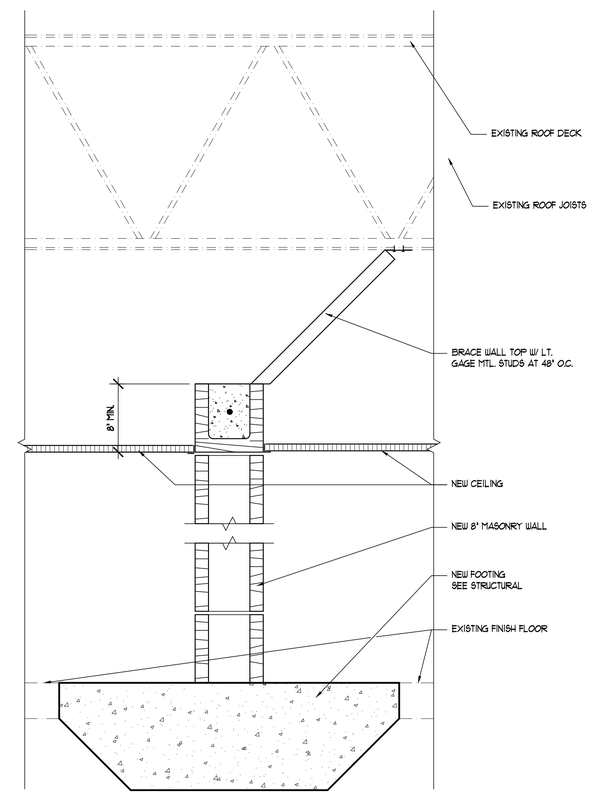

J WALL TYPE
SCALE 1 1/2" = 1'-0"

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WALL TYPES

drawn	02/18/14	CNK	checked	02/16/14	JCZ	approved	JCZ

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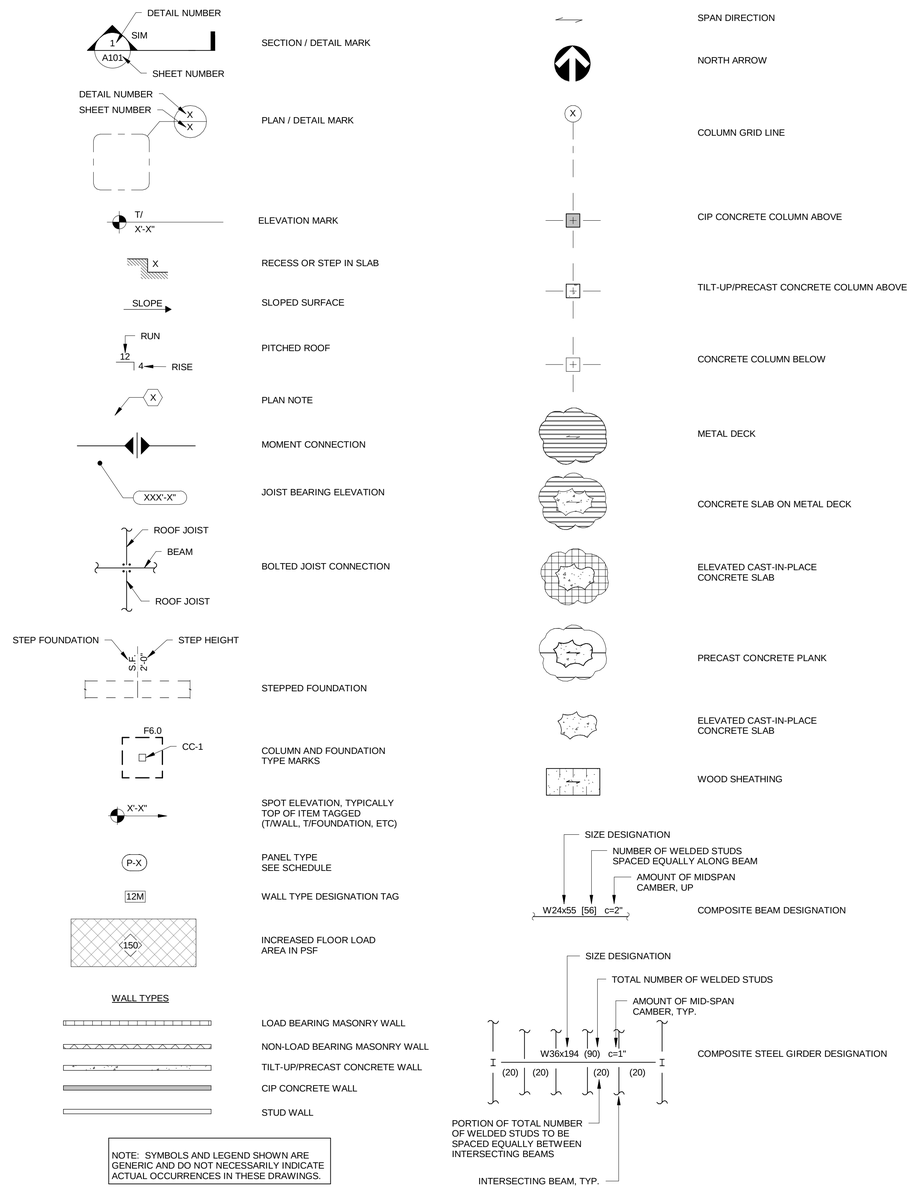
STRUCTURAL ABBREVIATIONS

ABBREV	ABBREVIATION
ACI	AMERICAN CONCRETE INSTITUTE
ADD	ADDITIVE
ADDL	ADDITIONAL
AFF	ABOVE FINISHED FLOOR
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AISI	AMERICAN IRON AND STEEL INSTITUTE
ALT	ALTERNATE/ALTERNATIVE
ALUM	ALUMINUM
ARCH	ARCHITECTURE/ARCHITECTURAL
ASTM	AMERICAN SOCIETY OF TESTING MATERIALS
AWS	AMERICAN WELDING SOCIETY
B/	BOTTOM OF
BCX	BOTTOM CHORD EXTENSION
BLDG	BUILDING
BLK	BLOCK
BM	BEAM
BOT	BOTTOM
BP	BASE PLATE/BEARING PLATE
BRG	BEARING
BTWN	BETWEEN
C	CHANNEL
CB	CONCRETE BEAM
CC	CONCRETE COLUMN
CF	CUBIC FEET (FOOT)
CIP	CAST IN PLACE
CJ	CONTRACTION JOINT
CL	CENTERLINE
CLR	CLEAR/CLEARANCE
CM	CONCRETE MASONRY
CMU	CONCRETE MASONRY UNIT
CO	COMPANY
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
CONN	CONNECTION
CONST	CONSTRUCTION
COORD	COORDINATE
CSJ	CONSTRUCTION JOINT
CTR	CENTER
CTRD	CENTERED
CY	CUBIC YARD
DEPT	DEPARTMENT
DET	DETAIL
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DIST	DISTANCE
DL	DEAD LOAD
DN	DOWN
DWG	DRAWING
EA	EACH
EE	EACH END
EF	EACH FACE
EHPA	EMERGENCY HURRICANE PROTECTION AREA
EJ	EXPANSION JOINT
ELEC	ELECTRIC/ELECTRICAL
EL, ELEV	ELEVATION
ENGR	ENGINEER
EOD	EDGE OF DECK
EOR	ENGINEER OF RECORD
EQ SP	EQUAL SPACED
ES	EACH SIDE
EW	EACH WAY
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
F	FOUNDATION
FD	FLOOR DRAIN
FDN	FOUNDATION
FF	FINISHED FLOOR
FIN	FINISH
FIN GR	FINISH GRADE
FLR	FLOOR
FS	FAR SIDE
FT	FEET/FOOT
FTG	FOOTING
GA	GAGE/GAUGE
GALV	GALVANIZED
GB	GRADE BEAM
GC	GENERAL CONTRACTOR
GEN	GENERAL
GL	GRID LINE
GS	GALVANIZED STEEL
HD	HOT DIPPED
HDG	HOT DIPPED GALVANIZED
HORIZ	HORIZONTAL
HSA	HEADED STUD ANCHOR
HSS	HOLLOW STRUCTURAL SECTION
HT	HEIGHT
I	MOMENT OF INERTIA
ID	INSIDE DIAMETER
I.F.	INSIDE FACE
IN.	INCH
INT	INTERIOR
JST	JOIST
JT	JOINT
K	KIP (1000 LB)
KLF	KIPS PER LINEAL FOOT
KSI	KIPS PER SQUARE INCH
KWY	KEYWAY

LB	POUND
LGTH	LENGTH
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG.	LONGITUDINAL
LSL	LAMINATED STRAND LUMBER
LT WT	LIGHT WEIGHT
LVL	LAMINATED VENEER LUMBER
MATL	MATERIAL
MAX	MAXIMUM
MB	MASONRY BEAM
MC	MISCELLANEOUS CHANNEL/MASONRY COLUMN
MECH	MECHANICAL
MET	METAL
MFR	MANUFACTURE/MANUFACTURER
MID	MIDDLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MPH	MILES PER HOUR
NGVD	NATIONAL GEODETIC VERTICAL DATUM
NIC	NOT IN CONTRACT
NO.	NUMBER
NS	NEAR SIDE
NTS	NOT TO SCALE
OC	ON CENTERS
OD	OUTSIDE DIAMETER
O.F.	OUTSIDE FACE
OPNG	OPENING
OPP	OPPOSITE
OSB	ORIENTED STRAND BOARD
P/C	PRECAST CONCRETE/PILE CAP
P/T	POST TENSIONED
PAR	PARALLEL
PCB	PRECAST CONCRETE BEAM
PCC	PRECAST CONCRETE COLUMN
PCF	POUNDS PER CUBIC FEET
PEMB	PRE-ENGINEERED METAL BUILDING
PEN	PENETRATION
P.J.	PANEL JOINT CENTERLINE
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PLMG	PLUMBING
PLY.	PLYWOOD
PREFAB	PREFABRICATED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSL	PARALLEL STRAND LUMBER
PT	PRESSURE TREATED
R/W	REINFORCED WITH
RD	ROOF DRAIN
REF	REFERENCE
REINF	REINFORCING
REQD	REQUIRED
REV	REVISION
RTU	ROOF TOP UNIT
SB	SOFFIT BEAM
SCHED	SCHEDULE
S.F.	SQUARE FEET
SF	STRIP FOUNDATION
SIM	SIMILAR
SPC	SPACE/SPACES
SPECS	SPECIFICATIONS
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STIFF	STIFFENER
STL	STEEL
STRUCT	STRUCTURAL
SYM	SYMMETRICAL
T/	TOP OF
TB	TIE BEAM
T&B	TOP AND BOTTOM
TCX	TOP CHORD EXTENSION
TDS	TURN DOWN SLAB
TE	THICKENED EDGE
TEMP	TEMPERATURE
TENS	TENSION
THD	THREAD/THREADED
THK	THICK
TOL	TOLERANCE
TRANS	TRANSVERSE
TS	TUBE STEEL
T.S.	THICKENED SLAB
TWF	THICKENED WALL FOUNDATION
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VOL	VOLUME
W	WIDE FLANGE SECTION
W/	WITH
W/O	WITHOUT
WD	WOOD
WF	WALL FOOTING
WP	WATERPROOF
W.P.	WORKING POINT
WS	WELDED STUD
WT	WEIGHT/STRUCTURAL TEE SECTION
WWF	WELDED WIRE FABRIC
@	AT DESIGNATION
#	POUNDS / REBAR SIZE NUMBER
+/-	PLUS OR MINUS
L	ANGLE
C.L.	CENTER LINE
&	AND
Sx	SECTION MODULUS
Ix	MOMENT OF INERTIA

STRUCTURAL SYMBOLS AND LEGEND



NOTE: SYMBOLS AND LEGEND SHOWN ARE GENERIC AND DO NOT NECESSARILY INDICATE ACTUAL OCCURRENCES IN THESE DRAWINGS.

STRUCTURAL SHEET INDEX

SHEET #	SHEET TITLE
S-0.1	GENERAL NOTES AND DETAILS
S-0.2	GENERAL NOTES
S-0.3	WIND LOAD DIAGRAM
S-1.1	FOUNDATION AND FRAMING ZONE A
S-2.1	FOUNDATION AND FRAMING ZONE B
S-3.1	SECTIONS AND DETAILS
S-3.2	SECTIONS AND DETAILS
S-3.3	SECTIONS AND DETAILS

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ADDITIONS AND REMODELING
1625 WALKER AVE., SW LIVE OAK, FLORIDA

GENERAL NOTES AND DETAILS

drawn SES | checked GCK | approved GCK

job no. 2012.51

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2/18/2014 1:31:23 PM C:\LOCAL REVIT PROJECTS\2014 Revit Projects\513005 SUWANNEE\513005 SUWANNEE PRIMARY ADDITIONS REMODEL-STR-R14-LOCAL.rvt

STRUCTURAL NOTES

1000 GENERAL NOTES:

1. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH PROJECT SPECIFICATIONS AND ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND SITE DRAWINGS. CONSULT THESE DRAWINGS FOR OPENINGS, DEPRESSIONS, EQUIPMENT WEIGHTS AND LOCATIONS, EMBEDDED ITEMS AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.
2. DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.
3. NO STRUCTURAL MEMBER OR COMPONENT SHALL BE CUT, NOTCHED, OR OTHERWISE ALTERED UNLESS APPROVED IN WRITING BY THE ENGINEER OF RECORD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL COSTS INCURRED BY THE ENGINEER OF RECORD FOR REVIEW OF ANY SUCH DEVIATIONS.
4. DO NOT SCALE DRAWINGS.
5. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO ENSURE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIEDOWNS.
6. DETAILS LABELED "TYPICAL DETAILS" ON THE DRAWINGS SHALL APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY DETAILED. THE APPLICABILITY OF THE DETAIL TO ITS LOCATION ON THE DRAWINGS CAN BE DETERMINED BY THE TITLE OF DETAIL. SUCH DETAILS SHALL APPLY WHETHER OR NOT THEY ARE REFERENCED AT EACH LOCATION. QUESTIONS REGARDING APPLICABILITY OF TYPICAL DETAILS SHALL BE DETERMINED BY THE ENGINEER OF RECORD.
7. THE GENERAL CONTRACTOR SHALL COMPARE THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, CIVIL AND STRUCTURAL DRAWINGS AND REPORT ANY DISCREPANCIES BETWEEN EACH SET OF DRAWINGS AND WITHIN EACH SET OF DRAWINGS TO THE ARCHITECT AND ENGINEER OF RECORD PRIOR TO THE FABRICATION AND INSTALLATION OF ANY STRUCTURAL MEMBERS.
8. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, AND DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, SEQUENCE AND SAFETY. THE ENGINEER DOES NOT HAVE CONTROL OR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSION OF THE CONTRACTOR, SUBCONTRACTOR OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
9. THE STRUCTURAL ENGINEER'S OBLIGATIONS TO REVIEW SHOP DRAWINGS AND OTHER SUBMITTALS AND TO RETURN THEM IN A TIMELY MANNER ARE CONDITIONED UPON THE PRIOR REVIEW AND APPROVAL OF THE SHOP DRAWINGS OR SUBMITTALS BY THE CONTRACTOR AS REQUIRED IN THE CONSTRUCTION CONTRACT AND THE CONTRACTOR'S SUBMITTAL OF THE SHOP DRAWINGS AND OTHER SUBMITTALS IN ACCORDANCE WITH A WRITTEN SCHEDULE DISTRIBUTED IN ADVANCE TO THE ENGINEER IDENTIFYING THE DATES FOR THE SUBMITTAL OF THE VARIOUS SHOP DRAWINGS AND SUBMITTALS.
10. PERIODIC SITE OBSERVATION BY FIELD REPRESENTATIVES OF TLC ENGINEERING FOR ARCHITECTURE IS SOLELY FOR THE PURPOSE OF DETERMINING IF THE WORK OF THE CONTRACTOR IS PROCEEDING IN GENERAL ACCORDANCE WITH THE STRUCTURAL CONTRACT DOCUMENTS. THIS LIMITED SITE OBSERVATION SHALL NOT BE CONSTRUED AS EXHAUSTIVE OR CONTINUOUS TO CHECK THE QUALITY OR QUANTITY OF THE WORK.
11. ALL STRUCTURES REQUIRE PERIODIC MAINTENANCE TO EXCEED LIFE SPAN AND TO ENSURE STRUCTURAL INTEGRITY FROM EXPOSURE TO THE ENVIRONMENT. A PLANNED PROGRAM OF MAINTENANCE SHALL BE ESTABLISHED BY THE OWNER. THIS PROGRAM SHALL INCLUDE ITEMS SUCH AS, BUT NOT LIMITED TO, PAINTING OF STRUCTURAL STEEL, PROTECTIVE COATINGS FOR CONCRETE, SEALANTS, CAULKED JOINTS, EXPANSION JOINTS, CONTROL JOINTS, SPALLS AND CRACKS IN CONCRETE, AND PRESSURE WASHING OF EXPOSED STRUCTURAL ELEMENTS EXPOSED TO SALT ENVIRONMENT OR OTHER HARSH CHEMICALS.
12. STRUCTURAL ENGINEER OF RECORD IS NOT RESPONSIBLE FOR THE DESIGN OF STEEL STAIRS, HANDRAILS, CURTAIN WALL/WINDOW WALL SYSTEMS, COLD-FORMED STEEL FRAMING, OR OTHER SYSTEMS NOT SHOWN IN THE STRUCTURAL DOCUMENTS. SUCH SYSTEMS SHALL BE DESIGNED, FURNISHED, AND INSTALLED AS REQUIRED BY OTHER PORTIONS OF THE CONTRACT DOCUMENTS.
13. IN THE PROFESSIONAL OPINION OF TLC ENGINEERING FOR ARCHITECTURE, INC. THE STRUCTURAL CONTRACT DOCUMENTS FOR THIS PROJECT HAVE BEEN PREPARED IN ACCORDANCE WITH THE DESIGN CRITERIA AS SET FORTH IN THE FLORIDA BUILDING CODE, 2010 EDITION.
14. NO PROVISIONS HAVE BEEN MADE FOR VERTICAL OR HORIZONTAL EXPANSION EXCEPT AS SHOWN ON CONTRACT DOCUMENTS.
15. FINISH FLOOR ELEVATION (FIRST FLOOR) OF 0"-0" (100'-0") IS USED AS A REFERENCE ELEVATION. SEE CIVIL DRAWINGS FOR ACTUAL ELEVATION.
16. THE USE OF REPRODUCTIONS OF THESE CONTRACT DOCUMENTS AND USE OF CAD FILES BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFY HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREON AS CORRECT, AND OBLIGATES HIMSELF TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS THAT MAY OCCUR HEREON.
17. IN THE EVENT THAT THE STRUCTURAL CONTRACTS DRAWINGS AND SPECIFICATIONS CONFLICT ON INFORMATION, THE STRUCTURAL CONTRACT DRAWINGS SHALL SUPERSEDE THE SPECIFICATIONS.

1060 DESIGN LOADS:

1. THE STRUCTURAL SYSTEM FOR THIS BUILDING HAS BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, 2010 EDITION, AND AS SUPPLEMENTED BY LOCAL AMENDMENTS.
2. THE FOLLOWING SUPERIMPOSED LOADINGS HAVE BEEN UTILIZED:

2.1.	DEAD LOADS	
	ROOF STRUCTURE	15 PSF
	ROOF STRUCTURE W/ LT. WT. CONC. INSULATION	25 PSF
	M/E/P LOADS	5 PSF
	CEILINGS	5 PSF
	COLLATERAL LOADS	10 PSF
	STEEL STUDS W/ GYP. BOARD PARTITIONS	10 PSF
	8" CMU NON-LOAD BEARING PARTITIONS	44 PSF
	8" CMU LOAD BEARING PARTITIONS	51 PSF
2.2.	LIVE LOADS	
	ROOF	20 PSF

2.3. WIND: PER FLORIDA BUILDING CODE, SECTION 1609.
SEE SHEET S-0.3 FOR COMPONENTS AND CLADDING PRESSURES
ULTIMATE DESIGN WIND SPEED, Vult = 140 MPH (3 SEC. GUST)
NOMINAL DESIGN WIND SPEED, Vasd = 108 MPH (3 SEC. GUST)
RISK CATEGORY III
EXPOSURE = C

1330 SHOP DRAWING REVIEW:

1. SHOP DRAWINGS SHALL ADEQUATELY DEPICT THE STRUCTURAL ELEMENTS AND CONNECTIONS SHOWN ON THE CONTRACT DOCUMENTS. SHOP DRAWINGS WILL BE REVIEWED FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT OF THE CONTRACT DOCUMENTS ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY COMPLIANCE WITH THE CONTRACT DOCUMENTS AS TO QUANTITY, LENGTH, ELEVATIONS, DIMENSIONS, ETC. REVIEW OF SUBMITTALS AND SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF THE SHOP DRAWINGS.
2. SHOP DRAWINGS SHALL BE REVIEWED BY THE CONTRACTOR AND MARKED "APPROVED" PRIOR TO SUBMITTAL TO THE ARCHITECT/ENGINEER. NON-CONFORMING DRAWING SUBMITTALS WILL BE RETURNED WITHOUT REVIEW.
3. SHOP DRAWING SUBMITTALS SHALL INCLUDE, AT A MINIMUM, ONE GOOD QUALITY REPRODUCIBLE AND THREE SETS OF BLUEPRINTS. ONE SET OF PRINTS WILL BE RETAINED BY THE ENGINEER OF RECORD, ONE BY THE ARCHITECT, ONE BY THE LOCAL BUILDING DEPARTMENT (WHERE REQUIRED) AND THE CONTRACTOR SHALL MAKE PRINTS FROM THE REPRODUCIBLE AS REQUIRED FOR DISTRIBUTION.
4. THE CONTRACT DOCUMENTS WILL GOVERN OVER THE SHOP DRAWINGS UNLESS OTHERWISE SPECIFIED IN WRITING BY THE ENGINEER OF RECORD.
5. CHANGES AND ADDITIONS MADE ON RE-SUBMITTALS SHALL BE CLEARLY FLAGGED AND NOTED. THE PURPOSE OF THE RE-SUBMITTALS SHALL BE CLEARLY NOTED ON THE LETTER OF TRANSMITTAL. ARCHITECT/ENGINEER OF RECORD REVIEW WILL BE LIMITED TO THOSE ITEMS CAUSING THE RE-SUBMITTAL. CONTRACTOR IS RESPONSIBLE FOR COSTS CAUSED BY MULTIPLE RE-SUBMITTALS (MORE THAN ONE) AT ARCHITECT/ENGINEERS' CURRENT HOURLY RATES.

1333 SUBMITTALS

1. ALL SHOP DRAWINGS MUST BE REVIEWED AND STAMPED APPROVED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTAL.
2. THE GENERAL CONTRACTOR SHALL SUBMIT FOR ENGINEER REVIEW SHOP DRAWINGS FOR THE FOLLOWING ITEMS:
A. STRUCTURAL STEEL (*)
B. REINFORCING STEEL
C. METAL ROOF OR FORM DECK
D. CONCRETE MIX DESIGNS

ITEMS MARKED (*) SHALL HAVE SHOP DRAWINGS SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.
ITEMS MARKED (#) SHALL BE SUBMITTED FOR ENGINEERS RECORD ONLY.

3. MANUFACTURER'S LITERATURE. SUBMIT TWO COPIES OF MANUFACTURER'S LITERATURE FOR ALL MATERIALS AND PRODUCTS USED IN CONSTRUCTION ON THE PROJECT.

1334 REQUEST FOR INTERPRETATION (RFI)

1. RFI SHALL ORIGINATE WITH CONTRACTOR AND SHALL BE SUBMITTED IN THE FORM SPECIFIED WITHIN CONTRACT DOCUMENTS. RFI SHALL BE SUBMITTED IN A PROMPT MANNER AS TO AVOID DELAYS IN CONTRACTORS WORK.
2. RFI SHALL BE SUBMITTED AS SPECIFIED WITHIN THE CONTRACT DOCUMENTS AND SHALL BE FORWARDED TO THE ENGINEER VIA THE ARCHITECT OR DIRECTLY TO THE ENGINEER BY THE CONTRACTOR WHEN APPROVED BY THE ARCHITECT.
3. ENGINEER SHALL TAKE UP TO 5 BUSINESS DAYS TO REVIEW AND RETURN RFI'S. HOWEVER, THE ENGINEER WILL ATTEMPT TO EXPEDITE THE REVIEW OF ALL RFI'S WITHIN A REASONABLE TIME FRAME.
4. RFI RESPONSES ARE NOT INTENDED TO AUTHORIZE ANY INCREASE IN CONSTRUCTION COST, SCHEDULE OR TIME EXTENSIONS, OR CONSTRUCTION IN CONFLICT WITH ANY APPLICABLE CODES OR SPECIFIED DESIGN STANDARDS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE DESIGN TEAM IMMEDIATELY OF ANY PERCEIVED SCOPE, SCHEDULE, OR COST IMPACTS OR ADJUSTMENTS. IF CONTRACTOR REQUESTS ANY ADDITIONAL COST, INCREASE IN SCHEDULE OR ADJUSTMENT IN SCOPE, THE CONTRACTOR SHALL NOT PROCEED WITH ADDITIONAL WORK UNTIL APPROVED IN WRITING BY THE CONSTRUCTION ADMINISTRATOR.

2210 DEMOLITION NOTES:

1. THE CONTRACTOR IS REQUIRED TO PROVIDE ALL TEMPORARY SCAFFOLDING, PLATFORMS, BARRICADES, RAILINGS, SCREENING, ETC. NECESSARY TO PROTECT EXISTING FACILITIES, STRUCTURES AND THE PUBLIC DURING DEMOLITION AND ERECTION OF THE NEW CONSTRUCTION, AS WELL AS FOR JOB SAFETY. JOB SAFETY, CONSTRUCTION AND DEMOLITION PROCEDURES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR IS REQUIRED TO TAKE ALL PRECAUTIONS TO MINIMIZE VIBRATION, NOISE, DUST AND DEBRIS IN ALL AREAS ADJACENT TO AREAS OF DEMOLITION.
2. THE CONTRACTOR IS REQUIRED TO COORDINATE WITH THE OWNER FOR THE TEMPORARY SUSPENSION OF USE OF ANY FACILITY OR PORTION THEREOF, AND THE ASSOCIATED BARRICADING REQUIREMENTS WITHIN A MINIMUM OF 7 DAYS PRIOR TO COMMENCING WORK.
3. THE CONTRACTOR IS REQUIRED TO PERFORM HIS WORK IN A MANNER, WHICH WILL NOT CONFLICT WITH ANY OPERATION, WHICH IS TO REMAIN FUNCTIONAL DURING THE COURSE OF THE PROJECT, UNTIL SUCH OPERATION IS SCHEDULED TO BE SHUT DOWN.
4. THE CONTRACTOR IS REQUIRED TO COORDINATE WITH OWNER FOR THE TEMPORARY SUSPENSION OF USE OF ANY UTILITY SYSTEM, A MINIMUM OF 3 DAYS PRIOR TO COMMENCING WORK.
5. AT ALL LOCATIONS WHERE NEW CONSTRUCTION WILL INTERFACE WITH EXISTING ELEMENTS, CUT THROUGH EXISTING STRUCTURE IN STRAIGHT AND TRUE LINES TO INSURE A NEAT INTERFACE.
6. AT ALL LOCATIONS WHERE THE DEMOLITION OF A CONCRETE MEMBER LEAVES THE ENDS OF REINFORCING STEEL EXPOSED, PROVIDE THE FOLLOWING:
A. CHIP CONCRETE FROM AROUND THE STEEL TO A DEPTH OF 1".
B. CUT OFF REINFORCING STEEL NOT LESS THAN 3/4" BELOW THE CONCRETE SURFACE.
C. FILL THE CAVITY FLUSH WITH A HIGH MODULUS GEL EPOXY. SEE SPECIFICATION FOR ACCEPTED MANUFACTURERS.
7. BEFORE DEMOLISHING ANY STRUCTURAL ELEMENT, INSTALL ALL REQUIRED TEMPORARY AND/OR PERMANENT BRACING AND SUPPORTS.
8. PROVIDE TEMPORARY CLOSURE OF ALL ROOF FASCIA, WALL AND OTHER OPENINGS TO PROTECT BUILDING FROM EXPOSURE TO UNDESIRABLE ELEMENTS UNTIL NEW CONSTRUCTION IS WEATHERPROOFED, AT WHICH TIME SUCH TEMPORARY CONSTRUCTION SHALL BE REMOVED. ALL TEMPORARY EXTERIOR WALLS THAT ARE SUBJECT TO WIND LOADS ARE TO BE DESIGNED BY A DELEGATED ENGINEER.
9. UPON COMPLETION OF NEW CONSTRUCTION UNDER EACH PHASE, ALL DEMOLISHED AREAS SHALL BE RESTORED TO ACCEPTABLE USAGE ACCORDING TO THE CONTRACT DOCUMENTS AS DETERMINED BY THE A/E.
10. REMOVE COMPLETELY FROM THE SITE AND LEGALLY DISPOSE ALL DEBRIS GENERATED BY THE DEMOLITION WORK AS THE WORK PROGRESSES. STOCKPILING OF DEBRIS AND BURNING OF DEBRIS ON THE PREMISES IS STRICTLY PROHIBITED.

2220 EXISTING STRUCTURE:

1. INFORMATION SHOWN FOR THE EXISTING STRUCTURE ON THESE DRAWINGS WAS TAKEN FROM THE DRAWINGS THAT WERE PREPARED FOR:
PREPARED BY: ZEB V. LACKY AND ASSOCIATES ARCHITECTS
ENTITLED: SUWANNEE PRIMARY SCHOOL
DATED: DECEMBER 10, 1974
2. WORK SHOWN ON THESE DRAWINGS ASSUMES THAT THE ORIGINAL CONSTRUCTION WAS PERFORMED IN ACCORDANCE WITH THE ABOVE INDICATED ORIGINAL DRAWINGS INCLUDING (BUT NOT LIMITED TO) DIMENSIONS, ELEVATIONS, MEMBER SIZES, MATERIALS, DETAILS, ETC. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE CONDITIONS RELATING TO THE EXISTING STRUCTURE AND TO NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES OR CONFLICTS.

2300 FOUNDATIONS - W/O SOIL REPORTS:

1. IN THE ABSENCE OF ANY GEOTECHNICAL RECOMMENDATIONS THE FOUNDATIONS ARE DESIGNED FOR AN ANTICIPATED ALLOWABLE SOIL BEARING PRESSURE OF 2,000 PSF ON COMPACTED FILL. BASED ON CONDITIONS OUTLINED IN THE EXISTING AND CURRENT CONSTRUCTION DOCUMENTS.
2. REGARDLESS OF WHETHER OR NOT A GEOTECHNICAL INVESTIGATION IS PERFORMED, NO WARRANTIES, EXPRESSED OR IMPLIED, ARE MADE BY TLC FOR THE PERFORMANCE OF THE FOUNDATION RELATED TO THESE ASSUMPTIONS.

1331 SHOP DRAWINGS FOR SPECIALTY ENGINEERED PRODUCTS:

1. THE FOLLOWING SYSTEMS AND COMPONENTS AS A MINIMUM REQUIRE FABRICATION AND ERECTION DRAWINGS PREPARED BY A DELEGATED ENGINEER:
A. ARCHITECTURAL PRECAST CONCRETE ELEMENTS
B. OPEN WEB STEEL JOISTS
C. STRUCTURAL STEEL CONNECTIONS REQUIRING ENGINEERING
D. METAL ROOF DECK ASSEMBLIES
2. SUBMITTALS SHALL CLEARLY IDENTIFY THE SPECIFIC PROJECT AND APPLICABLE CODES, LIST THE DESIGN CRITERIA, AND SHOW ALL DETAILS AND DRAWINGS NECESSARY FOR PROPER FABRICATION AND INSTALLATION. CALCULATIONS AND SHOP DRAWINGS SHALL IDENTIFY SPECIFIC PRODUCT UTILIZED. GENERIC PRODUCTS WILL NOT BE ACCEPTED.
3. SHOP DRAWINGS AND CALCULATIONS SHALL BE PREPARED UNDER THE DIRECT SUPERVISION AND CONTROL OF THE DELEGATED ENGINEER.
4. SHOP DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE STATE OF FLORIDA. COMPUTER PRINTOUTS ARE AN ACCEPTABLE SUBSTITUTE FOR MANUAL COMPUTATIONS PROVIDED THEY ARE ACCOMPANIED BY SUFFICIENT DESCRIPTIVE INFORMATION TO PERMIT THEIR PROPER EVALUATION. SUCH DESCRIPTIVE INFORMATION SHALL BE SIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE STATE OF FLORIDA AS AN INDICATION THAT HE/SHE HAS ACCEPTED RESPONSIBILITY FOR THE RESULTS. THE STRUCTURAL ENGINEER WILL RETAIN ONE SIGNED AND SEALED SET FOR THEIR RECORDS.
5. DRAWINGS PREPARED SOLELY TO SERVE AS A GUIDE FOR FABRICATION AND INSTALLATION (SUCH AS REINFORCING STEEL SHOP DRAWINGS OR STRUCTURAL STEEL ERECTION DRAWINGS) AND REQUIRING NO ENGINEERING, DO NOT REQUIRE THE SEAL OF A DELEGATED ENGINEER.
6. CATALOG INFORMATION ON STANDARD PRODUCTS DOES NOT REQUIRE THE SEAL OF A DELEGATED ENGINEER.
7. REVIEW BY THE STRUCTURAL ENGINEER OF RECORD OF SUBMITTALS IS LIMITED TO VERIFYING THE FOLLOWING:
A. THAT THE SPECIFIED STRUCTURAL SUBMITTALS HAVE BEEN FURNISHED.
B. THAT THE STRUCTURAL SUBMITTALS HAVE BEEN SIGNED AND SEALED BY THE DELEGATED ENGINEER.
C. THAT THE DELEGATED ENGINEER HAS UNDERSTOOD THE DESIGN INTENT AND HAS USED THE SPECIFIED STRUCTURAL CRITERIA. NO DETAILED CHECK OF CALCULATIONS WILL BE MADE.
D. THAT THE CONFIGURATION SET FORTH IN THE STRUCTURAL SUBMITTALS IS CONSISTENT WITH THE CONTRACT DOCUMENTS. NO DETAILED CHECK OF DIMENSIONS OR QUANTITIES WILL BE MADE.
8. SUBMITTALS NOT MEETING THE ABOVE CRITERIA WILL NOT BE REVIEWED AND WILL BE RETURNED.

3302 CONCRETE:

1. SHALL BE PER AN APPROVED MIX DESIGN PROPORTIONED TO ACHIEVE A STRENGTH AT 28 DAYS AS LISTED BELOW WITH A PLASTIC AND WORKABLE MIX:

LOCATION	STRENGTH	SLUMP	MAX AGGREGATE	W/C RATIO
FOUNDATIONS	3000 PSI	4-6"	1"	0.48
SLABS ON GRADE	4000 PSI	4-6"	3/4"	0.46
TIE BEAMS	4000 PSI	4-6"	3/4"	0.48

2. CONCRETE SHALL BE PLACED AND CURED ACCORDING TO ACI STANDARDS AND SPECIFICATIONS.
3. SUBMIT PROPOSED MIX DESIGN WITH RECENT FIELD CYLINDER OR LAB TESTS FOR REVIEW PRIOR TO USE. MIX SHALL BE UNIQUELY IDENTIFIED BY MIX NUMBER OR OTHER POSITIVE IDENTIFICATION. MIX SHALL MEET THE REQUIREMENTS OF ASTM C33 FOR COARSE AGGREGATE.
4. CONCRETE SHALL COMPLY WITH THE REQUIREMENTS OF ASTM STANDARD C94 FOR MEASURING, MIXING, TRANSPORTING, ETC. CONCRETE TICKETS SHALL BE TIME STAMPED WHEN CONCRETE IS BATCHED.
5. THE MAXIMUM TIME ALLOWED FROM THE TIME THE MIXING WATER IS ADDED UNTIL IT IS DEPOSITED IN ITS FINAL POSITION SHALL NOT EXCEED ONE AND ONE HALF (1-1/2) HOURS. IF FOR ANY REASON THERE IS A LONGER DELAY THAN THAT STATED ABOVE, THE CONCRETE SHALL BE DISCARDED. IT SHALL BE THE RESPONSIBILITY OF THE TESTING LAB TO NOTIFY THE OWNER'S REPRESENTATIVE AND THE CONTRACTOR OF ANY NONCOMPLIANCE WITH THE ABOVE.
6. SLABS SHALL BE CURED USING A DISSIPATING CURING COMPOUND MEETING ASTM STANDARD C309 TYPE 1-CLASS D AND SHALL HAVE A FUGITIVE DYE. THE COMPOUND SHALL BE PLACED AS SOON AS THE FINISHING IS COMPLETED OR AS SOON AS THE WATER HAS LEFT THE UNFINISHED CONCRETE. SCUFFED OR BROKEN AREAS IN THE CURING MEMBRANE SHALL BE RECOATED DAILY.
7. CALCIUM CHLORIDES SHALL NOT BE UTILIZED; OTHER ADMIXTURES MAY BE USED ONLY WITH THE APPROVAL OF THE ENGINEER.
8. CONCRETE MIX DESIGNS SHALL INCLUDE A WRITTEN DESCRIPTION INDICATING WHERE EACH PARTICULAR MIX IS TO BE PLACED WITHIN THE STRUCTURE.
9. CONDUITS, PIPES AND SLEEVES SHALL BE PLACED AND SPACED IN ACCORDANCE WITH ACI 318, 6.3.
10. CONCRETE DESIGN MIX SUBMITTALS SHALL INCLUDE TESTED, STATISTICAL BACK-UP DATA AS PER CHAPTER 5 OF ACI 318.
11. ALL COLUMNS AND BEAMS INTEGRATED IN CMU WALLS ARE 8" AND 12" NOMINAL AND 7-5/8" AND 11-5/8" ACTUAL DIMENSIONS.
13. CONCRETE SLABS ON GRADE SHALL BE REINFORCED WITH SYNTHETIC FIBERS AT A MINIMUM RATE OF 1.5 LBS/CY, OR AS RECOMMENDED BY THE FIBER MANUFACTURER FOR CONTROL OF TEMPERATURE AND SHRINKAGE/CRACKING, WHICHEVER IS GREATER.
14. WHEN TOTAL WIDTH OF PIPES OR DUCTS CAST INTO A SLAB EXCEED 12" IN A 24" WIDTH THEN THE CONTRACTOR SHALL ADD A LAYER OF #4 @ 12" ABOVE AND PERPENDICULAR TO THE DUCT/PIPE RUNS EXTENDING 12" BEYOND THE LAST DUCT/PIPE ON EACH SIDE.
15. WHEN WATER-BASED ADHESIVE ARE BEING USED ON CONCRETE SURFACES, THE CONTRACTOR SHALL VERIFY THAT THE WATER CONTENT OF THE CONCRETE IS WITHIN THE ALLOWABLE RANGE BEFORE INSTALLATION.
16. WHERE SPECIFIED CONCRETE STRENGTH OF COLUMN IS GREATER THAN THE SPECIFIED SLAB CONCRETE STRENGTH, HIGHER STRENGTH CONCRETE SHALL BE PUDDLED AT THE COLUMN. THE STRENGTH OF PUDDLED CONCRETE SHALL BE AT LEAST 0.72 TIMES THE STRENGTH OF COLUMN CONCRETE PER ACI 318, 10.15.

3310 REINFORCING STEEL:

1. SHALL BE ASTM A615 GRADE 60 DEFORMED BARS, FREE FROM OIL, SCALE AND RUST AND PLACED IN ACCORDANCE WITH THE TYPICAL BENDING DIAGRAM AND PLACING DETAILS OF ACI STANDARDS AND SPECIFICATIONS.
2. PROVIDE CONCRETE COVER OVER PRIMARY REINFORCEMENT, TIES, AND STIRRUPS, AS FOLLOWS, UNLESS OTHERWISE NOTED:

LOCATION AND CONDITION	MINIMUM COVER
A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	ALL BARS 3"
B. CONCRETE EXPOSED TO EARTH OR WEATHER	#6 OR GREATER 2" #5 OR SMALLER 1.5"
C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	
1. SLABS, WALLS, AND JOISTS	#11 OR SMALLER 3/4"
2. BEAMS AND COLUMNS	ALL BARS 1.5"

3. SECURE APPROVAL OF SHOP DRAWINGS PRIOR TO COMMENCING FABRICATION.
4. PROVIDE STANDARD HOOKS AT DISCONTINUOUS ENDS OF ALL TOP BARS.
5. WHERE REINFORCING IS SHOWN CONTINUOUS, SPLICE BOTTOM BARS OVER SUPPORTS AND TOP BARS AT CENTER OF SPAN. ALL OTHER LAP SPLICES SHALL BE IN ACCORDANCE WITH SPLICE TABLES AND DETAILS SHOWN ON DRAWINGS.
6. PROVIDE DOWELS INTO FOOTINGS, PILE CAPS, SUPPORT BEAMS, ETC. TO MATCH VERTICAL BARS WITH CLASS B TENSION LAP SPLICES, U.N.O.
7. LENGTH OF LAP SPLICES AND BAR EMBEDMENT SHALL BE AS SHOWN IN TABLE, UNLESS OTHERWISE NOTED:

	BAR SIZE	3000 PSI	4000 PSI	5000 PSI
T < 12"	#6 OR LESS	57Db	49Db	44Db
	#7 OR MORE	71Db	61Db	55Db
T > 12"	#6 OR LESS	74Db	65Db	57Db
	#7 OR MORE	81Db	79Db	72Db

WHERE "T" IS DEPTH OF CONCRETE UNDER BARS AND "Db" IS BAR DIAMETER.
UTILIZE CLASS "B" SPLICE FOR ALL SPLICES, U.N.O. ON PLANS OR DETAILS.

8. AT CHANGES IN DIRECTION OF CONCRETE WALLS AND TIE BEAMS, PROVIDE CORNER BARS OF SAME SIZE AND SPACING AS HORIZONTAL STEEL.

3314 WELDED WIRE FABRIC:

1. SHALL CONFORM TO ASTM A-185, FREE FROM OIL, SCALE AND RUST AND PLACED IN ACCORDANCE WITH THE TYPICAL PLACING DETAILS OF ACI STANDARDS AND SPECIFICATIONS.
2. MINIMUM LAP SHALL BE ONE SPACE PLUS TWO INCHES.
3. USE OF FLAT MANUFACTURED SHEETS IS REQUIRED (NO ROLLS).
4. INSTALL WWF ON BRICKS OR BOLSTERS AT MID DEPTH OF SLAB U.N.O.

3322 CONSTRUCTION JOINTS:

1. ANY DEVIATION OR ADDITION OF CONSTRUCTION JOINTS FROM THAT SHOWN ON THE DRAWINGS MUST BE REVIEWED AND APPROVED IN WRITING BY THE ENGINEER OF RECORD.
2. ALTERNATE OR ADDED CONSTRUCTION JOINT LOCATIONS ARE ACCEPTABLE ONLY AS A CHANGE ORDER, WHICH WILL INCLUDE ENGINEERING CHARGES BY THE ENGINEER OF RECORD FOR REDESIGN OF THE STRUCTURE, SHORING, ETC.

3400 CONCRETE TESTING:

1. AN INDEPENDENT TESTING LABORATORY SHALL PERFORM THE FOLLOWING TESTS ON CAST IN PLACE CONCRETE:
A. ASTM C143 - "STANDARD TEST METHOD FOR SLUMP OF PORTLAND CEMENT CONCRETE."
B. ASTM C39 - "STANDARD TEST METHOD FOR COMPRESSIVE STRENGTH OF CYLINDRICAL CONCRETE SPECIMENS." A SEPARATE TEST SHALL BE CONDUCTED FOR EACH CLASS, FOR EVERY 50 CUBIC YARDS (OR FRACTION THEREOF), PLACED PER DAY. REQUIRED CYLINDER(S) QUANTITIES AND TEST AGE AS FOLLOWS:
1 AT 3 DAYS
1 AT 7 DAYS
2 AT 28 DAYS

ONE ADDITIONAL RESERVE CYLINDER TO BE TESTED UNDER THE DIRECTION OF THE ENGINEER, IF REQUIRED. IF 28-DAY STRENGTH IS ACHIEVED, THE ADDITIONAL CYLINDER(S) MAY BE DISCARDED.

3601 CHEMICAL (ADHESIVE) ANCHORS:

1. SHALL BE A TWO PART EPOXY POLYMER INJECTION SYSTEM, SUCH AS HILTI HIT HY150, HILTI RE500, OR SIMPSON SET ADHESIVE SYSTEM, OR ENGINEER APPROVED SUBSTITUTION.
2. EPOXY TYPES AND BRANDS VARY IN THEIR BOND STRENGTH AND SUITABILITY OF USE, DEPENDING ON TYPE OF LOADING, ANCHOR SPACING, ETC. WHEN A PARTICULAR TYPE OF EPOXY IS SPECIFIED IN THESE DRAWINGS, A UNIQUE CALCULATION HAS BEEN MADE BASED ON THE PROPERTIES OF THAT SPECIFIC TYPE OF EPOXY FOR THE SPECIFIC CONDITION SHOWN IN THE DETAIL. SUBSTITUTION OF EPOXY TYPE IS NOT ALLOWED WHERE DETAIL SPECIFIES ONLY ONE TYPE OF EPOXY, WITHOUT PRIOR WRITTEN APPROVAL BY THE ENGINEER OF RECORD. NOT ALL EPOXY BRANDS OR TYPES WILL BE ALLOWED AS SUBSTITUTES.
3. SUBSTITUTION OF EPOXIES IN ONE CONDITION SHALL NOT BE CONSTRUED AS APPROVAL TO MAKE SIMILAR SUBSTITUTION OF EPOXIES IN OTHER DIFFERING CONDITIONS. EACH SUBSTITUTION MUST RECEIVE PRIOR WRITTEN APPROVAL BY THE ENGINEER OF RECORD.
4. INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
5. THE MANUFACTURER'S REPRESENTATIVE SHALL TRAIN INSTALLERS.
6. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ALL HOLE CLEAN-OUT REQUIREMENTS ARE FULLY COMPLETED BY THE INSTALLERS PRIOR TO INJECTING EPOXY INTO THE HOLES.
7. NO LOAD SHALL BE APPLIED TO THE EPOXY ANCHORS UNTIL THE EPOXY HAS FULLY CURED AND HAS ACHIEVED IT'S SPECIFIED STRENGTH.
8. IF DETAIL SHOWS EPOXY ANCHORS IN SLOTTED HOLES, IT IS IMPERATIVE THAT ANY EXCESS EPOXY IS CLEANED UP FROM AROUND THE ANCHOR ROD, SO THAT IT DOES NOT INTERFERE WITH ADJUSTABILITY OF ANCHOR ROD IN SLOTTED HOLE.

3602 MECHANICAL ANCHORS:

1. SHALL BE EITHER HEAVY DUTY CONCRETE SCREW ANCHOR (SUCH AS POWERS WEDGE-BOLT, SIMPSON TITEN HD, OR HILTI HUS-H) OR WEDGE TYPE EXPANSION ANCHOR (SUCH AS POWERS POWER-STUD, SIMPSON WEDGE-ALL, OR HILTI KWIK BOLT 3).
2. TYPE OF ANCHOR SHALL BE AS SPECIFIED ON THE DRAWINGS, WHILE BRAND AND MODEL OF ANCHOR MAY BE SELECTED FROM THE ABOVE LISTED ANCHORS. SUBSTITUTION ANCHORS MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVED IN WRITING BY THE ENGINEER OF RECORD PRIOR TO USE.
3. IN SOME CASES OF CRITICAL LOADING OR GEOMETRIC CONDITIONS, ONLY SPECIFIC ANCHORS WILL BE ALLOWED, AS NOTED ON THE DRAWINGS. IN THESE CASES, THE SPECIFIED BRAND AND MODEL OF ANCHOR MUST BE USED.
4. INSTALL IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
5. THE MANUFACTURER'S REPRESENTATIVE SHALL TRAIN INSTALLERS.
6. MINIMUM EMBEDMENT DEPTH OF 1/4" TAPCONS INSTALLED IN CONCRETE SHALL BE 1.25" AND INSTALLED INTO MASONRY SHALL BE 1.5". SELECT ANCHOR LENGTH AS REQUIRED TO ACHIEVE THE SPECIFIED MINIMUM EMBEDMENT DEPTH.
7. TAPCON SCREWS MAY BE REPLACED W/ 0.157" SHANK DIAMETER PAF ANCHORS (HILTI X-U OR EQUAL) ON A 1:1 SUBSTITUTION BASIS. MINIMUM EMBEDMENT DEPTH SHALL BE 1.25" WHEN INSTALLED INTO CONCRETE OR GROUTED MASONRY. FOLLOW MANUFACTURER'S INSTALLATION RECOMMENDATIONS, MINIMUM EDGE DISTANCES, AND PLACEMENT LIMITATIONS (RELATIVE TO MORTAR JOINTS IN MASONRY).

4810 MASONRY WALLS:

1. ALL MASONRY CONSTRUCTION SHALL CONFORM TO ACI 530/ASCE 5/TMS 402 "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" AND ACI 530.1/ASCE 6/TMS 602 "SPECIFICATION FOR MASONRY STRUCTURES", LATEST EDITION.
2. MASONRY UNITS SHALL MEET ASTM C-90 FOR HOLLOW LOAD BEARING TYPE MASONRY WITH UNIT STRENGTH OF 1900 PSI ON THE NET AREA (f'm = 1500 PSI). MORTAR SHALL BE TYPE "M" OR "S" AND MEET ASTM C-270.
3. GROUT SHALL BE 3000 PSI MINIMUM COMPRESSIVE STRENGTH AND MEET ASTM C-476 AND HAVE A SLUMP BETWEEN 8" AND 11" WITH WATER CM RATIO OF 0.55 MAXIMUM AND WITH 3/8" MAXIMUM AGGREGATE.
4. PROVIDE HOOKED DOWELS IN FOUNDATIONS FOR VERTICAL REINFORCING ABOVE. LAP SPLICES TO BE 48 BAR DIAMETERS (U.N.O.).
5. BLOCK CELLS SHALL BE GROUT FILLED WITH VERTICAL REINFORCING BARS AT CORNERS, INTERSECTIONS, EACH SIDE OF OPENINGS AND AS SHOWN ON THE DRAWINGS.
6. DOWELS SHALL BE USED TO PROVIDE CONTINUITY INTO THE STRUCTURE ABOVE AND/OR BELOW, UNLESS NOTED OTHERWISE.
7. USE METAL LATH, MORTAR OR SPECIAL UNITS TO CONFINE CONCRETE AND GROUT TO AREA AS REQUIRED.
8. MASONRY SHALL BE LAID IN RUNNING BOND PATTERN UNLESS NOTED OTHERWISE. AT FILLED CELLS LAY UNITS WITH FULL BED JOINTS AROUND CELLS.
9. PROVIDE 9 GAGE GALVANIZED HORIZONTAL JOINT REINFORCING (DUR-O-WALL OR ENGINEER APPROVED SUBSTITUTION) AT ALTERNATE BLOCK COURSES. LADDER TYPE IS RECOMMENDED WITH REINFORCED FILLED CELLS. PROVIDE PREFABRICATED "TEE" OR CORNER SECTIONS AT WALL INTERSECTIONS.
10. CONTROL JOINTS SHALL BE CONSTRUCTED IN CONCRETE MASONRY CONSTRUCTION AT A MAXIMUM HORIZONTAL SPACING BETWEEN JOINTS OF 25'-0" AND NOT MORE THAN 12'6" FROM CORNERS. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS. CONSTRUCT INTERIOR CONTROL JOINTS AT A MAXIMUM HORIZONTAL SPACING OF 32'-0" OR 16'-0" FROM CORNERS. NO JOINTS SHALL BE LOCATED WITHIN 2'-0" OF STEEL BEAM BEARINGS. HORIZONTAL WALL REINFORCING SHALL BE STOPPED EACH SIDE OF CONTROL JOINTS. SEE ARCHITECTURAL DRAWINGS FOR SEALANT REQUIREMENTS AT CONTROL JOINTS.
11. SUBMIT PROPOSED GROUT MIX DESIGNS FOR REVIEW PRIOR TO USE. MIX NUMBER OR OTHER POSITIVE IDENTIFICATION SHALL UNIQUELY IDENTIFY MIX.
12. USE OF SUPERPLASTICIZER IS PROHIBITED.
13. CELLS TO BE GROUT FILLED SHALL HAVE VERTICAL ALIGNMENT SUFFICIENT TO MAINTAIN A CLEAR, UNOBSTRUCTED, CONTINUOUS VERTICAL GROUT SPACE.
14. CLEANOUT OPENINGS SHALL BE PROVIDED AT THE BOTTOM OF CELLS TO BE GROUT FILLED IN EACH POUR IN EXCESS OF 5 FEET IN HEIGHT. AFTER INSPECTION AND BEFORE GROUTING, THE REBAR SHALL BE TIED AT THE CLEANOUTS AND THE CLEANOUTS SHALL BE SEALED.
15. ANY OVERHANGING MORTAR OR OTHER OBSTRUCTION OR DEBRIS SHALL BE REMOVED FROM THE INSIDES OF SUCH CELL WALLS.
16. VERTICAL REINFORCEMENT SHALL BE HELD IN POSITION AT TOP AND BOTTOM AND AT INTERVALS NOT EXCEEDING 192 BAR DIAMETERS.
17. CELLS CONTAINING REINFORCEMENT SHALL BE FILLED SOLIDLY WITH GROUT. SAMPLE AND TEST GROUT PER ASTM C1019.
18. GROUT SHALL BE POURED IN LIFTS OF 4 FEET MAXIMUM HEIGHT. GROUT SHALL BE CONSOLIDATED AT TIME OF PLACING BY VIBRATING AND RECONSOLIDATED LATER BY VIBRATING BEFORE PLASTICITY IS LOST.
19. WHEN TOTAL GROUT POUR EXCEEDS 5 FEET IN HEIGHT, (HIGH LIFT GROUTING), THE GROUT SHALL BE PLACED IN 4-FOOT LIFTS WITH A MINIMUM OF A 30 MINUTE DELAY BETWEEN LIFTS. MINIMUM CELL DIMENSION SHALL BE IN ACCORDANCE WITH TABLE 5 OF ACI 530.1 (3" X 3" FOR COARSE GROUT, 12 FT. MAXIMUM POUR HEIGHT).
20. WHEN THE GROUTING IS STOPPED FOR ONE HOUR OR LONGER, HORIZONTAL CONSTRUCTION JOINTS SHALL BE MADE BY STOPPING THE POUR OF GROUT NOT LESS THAN 1-1/2 INCH BELOW THE TOP OF THE UPPERMOST UNIT GROUTED.
21. WHERE CONCRETE BEAMS ARE INSTALLED IN CONCRETE MASONRY WALL, SUPPORT CONCRETE WITH 6" SIDE CONTINUOUS STRIPS OF 1/8 SQUARE MESH SOFFIT SCREENING OR PUR-O-STOP OF EQUAL CENTERED OVER BLOCK WORK. USE OF ROOFING FELT STRIPS WILL NOT BE PERMITTED.
22. MASONRY WALLS MARKED AS "LOAD BEARING" ARE DESIGNED TO CARRY FLOOR GRAVITY LOADS AND MUST BE CONSTRUCTED TO SUPPORT THE CONCRETE FLOOR SLAB CONCURRENTLY WITH CONCRETE COLUMN CONSTRUCTION.
23. MASONRY WALLS INDICATED AS "INFILL" ARE DESIGNED TO RESIST LATERAL LOADS AND MUST BE CONSTRUCTED AFTER THE CONCRETE SLAB IS CAST AND POST TENSIONING OPERATION IS COMPLETED. INFILL WALLS SHALL BE CONSTRUCTED STARTING AT THE FOUNDATION LEVEL AND WORKING UPWARD ONE LEVEL AT A TIME. DO NOT START NEXT HIGHER LEVEL OF WALL PRIOR TO COMPLETION OF WALL BELOW. ALLOW A MINIMUM OF 3 DAYS CURING FOR GROUT OF WALL BELOW PRIOR TO STARTING WALL ABOVE.
24. SINGLE STORY MASONRY WALLS INDICATED AS "PARTITION WALLS" SHALL BE CAST ON THICKENED SLAB FOUNDATIONS AND ARE NOT DESIGNED TO CARRY ANY LOADS FROM THE MAIN BUILDING STRUCTURES. ISOLATE TOP OF PARTITION WALLS FROM UNDERSIDE OF CONCRETE SLAB WITH A MINIMUM 1/2" THICK COMPRESSIBLE MATERIAL.
25. PROVIDE DOVETAIL ANCHORS AT 16" C/C, UNLESS NOTED OTHERWISE, WHERE MASONRY WALLS ABUT CONCRETE SURFACES.
26. SUBMIT WRITTEN CONSTRUCTION SEQUENCES AND PROCEDURES PRIOR TO THE START OF MASONRY CONSTRUCTION.

4814 TIE BEAMS:

1. BEAMS WITH THE PREFIX "TB" SHALL BE OF CONCRETE, POURED AFTER THE MASONRY WALLS BELOW ARE IN PLACE.
2. REINFORCING SHALL BE CONTINUOUS THROUGH TIE BEAMS WITH MINIMUM LAP SPLICES OF 48 BAR DIAMETERS AND BENT BARS AT CORNERS.
3. USE METAL LATH, MORTAR, OR SPECIAL UNITS TO CONFINE CONCRETE TO AREA REQUIRED, IN ACCORDANCE WITH ACI 530.1 (SOLID METAL OR FELT CAVITY CAPS ARE PROHIBITED).

5120 STRUCTURAL STEEL:

1. STEEL WORK SHALL BE NEW AND CONFORM TO THE ANSI/AISC 360-05 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS.
2. MATERIAL SHALL CONFORM TO THE FOLLOWING, EXCEPT AS NOTED:

WIDE FLANGE SHAPES	ASTM A992 (Fy=50 KSI)
S AND M SHAPES	ASTM A36 (Fy=36 KSI)
ANGLES, CHANNELS AND PLATES	ASTM A36 (Fy=36 KSI)
HIGH STRENGTH BOLTS	ASTM A325 OR A490
TWIST-OFF TENSION CONTROL BOLTS	ASTM F1852
THREADED RODS	ASTM A36 (Fy=36 KSI)
HEAVY HEX NUTS	ASTM A563
HARDENED STEEL WASHERS	ASTM F436
DIRECT-TENSION-INDICATOR WASHER	ASTM F959
ANCHOR RODS	ASTM F1554 GR. 36 (Fy=36 KSI)
SHEAR STUD CONNECTORS	ASTM A108 (Fu=65 KSI)

3. CONNECTIONS:
A. BOLTS SHALL BE HIGH-STRENGTH, BEARING TYPE IN SNUG TIGHT CONDITION, U.N.O. TIGHTEN BY AN AISC APPROVED METHOD.
B. WELDING ELECTRODES SHALL BE PER AWS D1.1. RETURN FILLET WELDS FOR FRAMED CONNECTIONS 1/2" AT EACH END.
C. FIELD CONNECTIONS SHALL BE BOLTED, EXCEPT AS NOTED OTHERWISE.
D. DETAIL FLOOR AND ROOF FRAMING CONNECTIONS FOLLOWING THE REQUIREMENTS SHOWN IN THE TYPICAL CONNECTION SCHEDULES SHOWN IN THESE DRAWINGS, BASED ON THE BEAM OR GIRDER SIZE.
E. FOR THE PURPOSE OF CORRECTLY INTERPRETING THE CONNECTION SCHEDULES, GIRDERS SHALL BE CONSIDERED AS ANY FLOOR OR ROOF BEAM WHICH CARRIES OTHER FLOOR OR ROOF BEAMS, OR ANY FLOOR OR ROOF BEAM WHICH CARRIES STEEL COLUMNS.
F. DETAIL DIAGONAL BRACING CONNECTIONS AS SHOWN IN THE DETAILS. IF NO DETAIL IS PROVIDED, DETAIL CONNECTION TO DEVELOP THE FULL TENSION CAPACITY OF THE DIAGONAL BRACING MEMBER.
G. DETAIL MOMENT CONNECTIONS AS SHOWN IN THE DETAILS. IF NO DETAIL IS PROVIDED, DETAIL MOMENT CONNECTION USING FULL PENETRATION WELDS AT BEAM FLANGES.
4. HIGH STRENGTH BOLTS IN BEARING CONDITION SUPPORTING SIMPLE SPAN BEAMS NOT SUBJECT TO AXIAL LOADS MAY BE INSTALLED TO "SNUG TIGHT" CONDITION IF NORMAL, OR SHORT SLOTTED HOLES ARE USED. THE ENGINEER OF RECORD WILL BE THE ULTIMATE AUTHORITY IN THE USE OF "SNUG TIGHT" BOLTS. IF LONG SLOTTED OR OVERSIZED HOLES ARE USED, BOLTS MUST BE FULLY PRETENSIONED AND SLIP CRITICAL. PROPER SURFACE PREPARATION IS REQUIRED FOR SLIP CRITICAL BOLTS, INCLUDING OMISSION OF PRIMER OR FIRE PROOFING, AS APPROPRIATE.
5. BOLTS SHARING LOAD WITH WELDS IN A CONNECTION SHALL BE FULLY PRETENSIONED AND SLIP CRITICAL.
6. WHERE FULLY PRETENSIONED OR SLIP CRITICAL BOLTS ARE REQUIRED, TIGHTENING SHALL BE ACHIEVED USING EITHER TWIST-OFF TENSION CONTROL BOLTS OR DIRECT TENSION INDICATING WASHERS.
7. ALL STRUCTURAL STEEL EXPOSED TO EXTERIOR CONDITIONS SHALL BE HOT DIPPED GALVANIZED PER ASTM A123 AND ALL FASTENERS AND HARDWARE SHALL BE HOT DIPPED GALVANIZED PER ASTM A153.
8. GROUT UNDER BEARING PLATES SHALL BE NON-METALLIC, NON-SHRINK TYPE WITH A COMPRESSIVE STRENGTH OF AT LEAST 5,000 PSI IN 28 DAYS.
9. COMPOSITE FLOOR MEMBERS ARE DESIGNED TO BE UNSHORED UNLESS OTHERWISE NOTED. THE WEIGHT OF THE WET CONCRETE WILL RESULT IN DEFLECTIONS OF THE SUPPORTING STEEL DECK, BEAMS, AND GIRDERS. ALL OVERRUNS OF CONCRETE QUANTITIES ARE TO BE ANTICIPATED AND INCLUDED IN THE CONTRACTOR'S BID. THE CONTRACTOR SHALL COORDINATE EMBEDDED ITEMS REQUIRED FOR ARCHITECTURAL, STRUCTURAL, AND MECHANICAL ELEMENTS. CONCRETE FLOORS UTILIZING UNSHORED CONSTRUCTION SHALL BE SCREEDED LEVEL.
10. SIZE AND SPACING OF CONDUITS IN COMPOSITE SLABS SHALL COMPLY WITH THE REQUIREMENTS OF ASCE 3-91 UNLESS NOTED OTHERWISE ON DRAWINGS.
11. THE CAMBER OF STEEL MEMBERS SHALL BE VERIFIED IN THE SHOP AND THE FIELD. WHEN NO CAMBER IS INDICATED, TURN THE MEMBER NATURAL CAMBER UP.
12. APPLY FIREPROOFING TO STEEL STRUCTURE CALCULATING THE THICKNESS OF FIREPROOFING BY COMPARING THE ACTUAL MEMBER SIZE TO THE MEMBER SIZE USED IN THE DESIGNATED UL RATING AND ADJUSTING APPROPRIATELY.
13. TRUSS STEEL IS ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) AND SHALL CONFORM TO SECTION 10 OF THE AISC CODE OF STANDARD PRACTICE. AESS SHALL BE SANDBLASTED (SSPC-SP6-82) PRIOR TO PRIMER COAT APPLICATION. PRIMER SHALL BE COMPATIBLE WITH FINAL PAINT COAT AND SHALL BE APPROVED BY FINISH PAINT CONTRACTOR.
14. USE INTUMESCENT PAINT ON STRUCTURAL STEEL EXPOSED TO VIEW WHICH REQUIRES FIRE RATING. SEE ARCHITECTURAL DRAWINGS FOR FIRE RATING AND INTUMESCENT PAINT REQUIREMENTS.

5122 WELDING:

1. WELDING SHALL BE DONE BY WELDERS WITH CURRENT CERTIFICATION IN ACCORDANCE WITH AWS D1.1.
2. WELDS SHOWN ON STRUCTURAL DRAWINGS ARE MINIMUM DESIGN REQUIREMENTS. THE FABRICATOR'S SHOP DRAWINGS SHALL REFLECT WELDS IN ACCORDANCE WITH AWS REQUIREMENTS.
3. FULL PENETRATION GROOVE WELDS SHALL BE INSPECTED BY ULTRASONIC TESTING. TWENTY-FIVE PERCENT OF THE WELDS SHALL BE INSPECTED AT RANDOM UNLESS NOTED OTHERWISE. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
4. UNLESS NOTED OTHERWISE ON THE DRAWINGS, GROOVE WELDS SHALL BE FULL PENETRATION.
5. PROVIDE FILLET WELDS AT CONTACT POINTS BETWEEN STEEL MEMBERS SUFFICIENT TO DEVELOP THE ALLOWABLE TENSILE STRENGTH OF THE SMALLER MEMBER AT THE JOINT UNLESS DETAILED OTHERWISE ON THE DRAWINGS. THE MINIMUM FILLET WELD SIZE IS 3/16" UNLESS OTHERWISE NOTED.

5210 STEEL JOISTS:

1. SHALL BE THE SIZE AND SPACING AS SHOWN ON THE STRUCTURAL DRAWINGS AND SHALL BE DESIGNED, FABRICATED, INSTALLED AND BRIDGED IN ACCORDANCE WITH THE STEEL JOIST INSTITUTE SPECIFICATIONS, LATEST EDITION.
2. ENDS OF BRIDGING LINES TERMINATING AT WALLS OR BEAMS SHALL BE ANCHORED THERETO AT TOP AND BOTTOM CHORDS. MINIMUM JOIST BRIDGING TERMINATION CONNECTIONS TO MASONRY SHALL BE L3x3x1/4x3" LONG WITH (1) 1/2" DIAMETER ANCHOR BOLT OR L4x4x1/4x0'-3" WITH (1) 1/2"x5" ANCHOR BOLT TO CONCRETE.
3. BRIDGING SHALL BE WELDED OR BOLTED AT POINTS OF CONTACT. WELD SHALL NOT DAMAGE THE JOIST. CROSS BRIDGING SHALL BE WELDED OR BOLTED AT ITS CENTER POINT. BRIDGING SHALL BE STRAIGHT FROM JOIST TO JOIST. CHANGES IN SLOPE OR DIRECTION SHALL BE MADE AT A JOIST, NOT BETWEEN JOISTS.
4. K-SERIES JOISTS SHALL BEAR A MINIMUM OF 21/2" ON STEEL BEAMS AND 4" ON CONCRETE BEAMS. JOIST BEARING PLATES TO BE MINIMUM 3/8"x4"x7-1/2" WITH (2) 1/2" DIAMETER X 5" SHEAR STUD CONNECTORS. BEARING PLATES FOR BACK TO BACK SINGLE JOISTS SHALL BE MINIMUM 3/8"x71/2"x71/2" WITH (4) 1/2" DIAMETER X 5" SHEAR STUD CONNECTORS. BEARING PLATES SHALL BE CAST INTEGRALLY WITH THE CONCRETE BEAM. WELD JOISTS TO BEARING PLATES WITH A MINIMUM OF (2) 1/8" FILLET WELDS, UNLESS NOTED OTHERWISE.
6. HANGERS FOR SUPPORT OF EQUIPMENT, OR MEMBERS SUPPORTING SUCH HANGERS, SHALL BE LOCATED AT PANEL POINTS OF JOISTS, AND SHALL BE HUNG FROM THE TOP CHORD OF THE JOIST.
7. ROOF JOISTS SHALL BE DESIGNED FOR A NET UPLIFT PRESSURE AS SHOWN ON DRAWINGS.
8. SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION. SHOP DRAWING SUBMITTAL SHALL INCLUDE LAYOUT, COMPONENT DESIGNATION, BRIDGING, AND PERTINENT SECTIONS AND DETAILS.
9. SUBMITTALS FOR JOISTS, OTHER THAN STANDARD SJI CATALOG SELECTIONS WHICH HAVE BEEN VERIFIED BY SJI, SHALL BE SIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE STATE OF FLORIDA.
10. JOISTS SHALL BE DESIGNED TO SUPPORT THE LOADS LISTED IN SECTION 1060, THOSE INDICATED ON PLANS AND AN ADDITIONAL CONCENTRATED DEAD LOAD NOT TO EXCEED 500# TO BE PLACED AT ANY PANEL ALONG THE LENGTH OF THE JOIST. DEAD LOADS SHALL BE IN ACCORDANCE WITH THE MATERIALS SHOWN WITHIN THE CONTRACT DOCUMENTS AND SHALL BE NOTED ON THE SHOP DRAWING SUBMITTAL BY THE JOIST MANUFACTURER.
11. JOIST BOTTOM CHORDS SHALL BE DOUBLE ANGLES.
12. JOISTS ARE TO BE DESIGNED TO ALLOW 1" MAXIMUM DIFFERENCE IN CAMBER BETWEEN ADJACENT PARALLEL JOISTS.
13. WHERE JOIST SPANS EXCEED 30'-0", THE 3 JOISTS CLOSEST TO THE PERIMETER OF THE BAY SHELL BE DESIGNED TO LIMIT LIVE LOAD DEFLECTION TO 1".
14. WHERE JOISTS SUPPORT A MOVEABLE PARTITION, ALL JOISTS SHALL BE SIZED TO PROVIDE A MAXIMUM 1" DEFLECTION AT THE CENTER OF THE SPAN AND AT THE LOCATION OF THE STORED PARTITION.
15. ALL STEEL JOISTS GREATER THAN FORTY FEET IN LENGTH REQUIRE A ROW OR BOLTED BRIDGING TO BE IN PLACE PRIOR TO SLACKENING OF HOIST LINES. (U.N.O.)
16. JOIST MANUFACTURER SHALL COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL LOADS DUE TO EQUIPMENT TO BE SUPPORTED BY ROOF STRUCTURE. ALL ADDITIONAL LOADS SHALL BE CLEARLY INDICATED ON SHOP DRAWINGS SUBMITTALS.

5312 STEEL ROOF DECK:

1. SHALL BE GALVANIZED (G90), TYPE "B" STEEL ROOF DECK OF GAGE AND DEPTH INDICATED ON DRAWINGS, AND SHALL CONFORM TO THE PROVISIONS OF THE STEEL DECK INSTITUTE (SDI) SPECIFICATIONS FOR STEEL ROOF DECK.
2. DECK SHALL BE VENTED IN AREAS TO RECEIVE LIGHT WEIGHT INSULATING FILL.
3. DECK CENTERING SHALL BE PLACED IN CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS AND SHALL BE CONTINUOUS OVER AT LEAST 3 SPANS.
4. WELD PATTERN SHALL BE AS INDICATED ON ROOF DECK FASTENING DIAGRAM.
5. DECK SHALL BE TOPPED WITH TYPE II INSULATING FILL CONSISTING OF RIGID INSULATING BOARD COVERED WITH TWO OR MORE INCHES OF LIGHT WEIGHT INSULATING CONCRETE OVER THE TOP (MAX. 30 P.C.F. OVEN DRY DENSITY).
6. METAL DECK MANUFACTURER SHALL BE A MEMBER OF THE STEEL DECK INSTITUTE AND ALL DESIGN SHALL BE IN ACCORDANCE WITH APPLICABLE STANDARDS.
7. DO NOT HANG MEP SYSTEMS (DUCTWORK, ROOF DRAIN OR FIRE PROTECTION PIPING, ETC) FROM ROOF DECK. ALL EQUIPMENT IS TO BE HUNG FROM ROOF JOISTS. SEE SECTION 5210 FOR ROOF JOIST REQUIREMENTS.

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REVISIONS AND UPDATES

02/14/14		CONSTRUCTION DOCUMENTS FOR BID/PERMIT

SUWANNEE COUNTY SCHOOL BOARD
SUWANNEE PRIMARY SCHOOL
ADDITIONS AND REMODELING
1625 WALKER AVE., SW LIVE OAK, FLORIDA

GENERAL NOTES

drawn SES | checked GCK | approved GCK

Seal

job no. 2012.51

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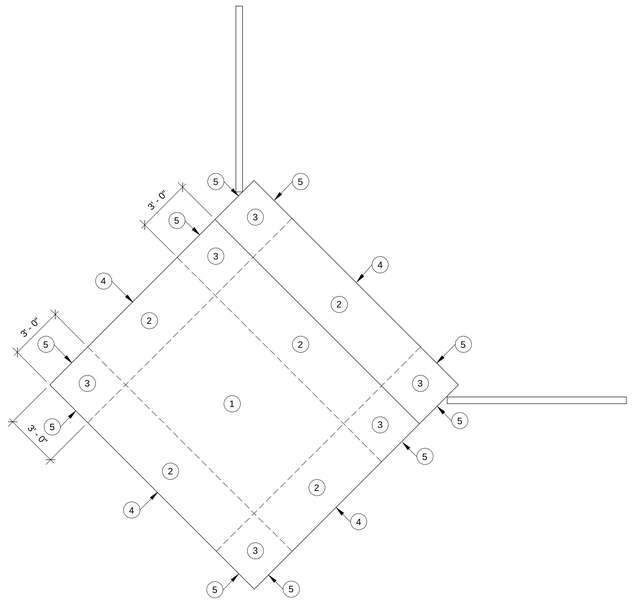


2 WIND LOAD DIAGRAM - ZONE A
1/4" = 1'-0"

NOMINAL C&C WIND PRESSURES (ASCE 7-10)

BUILDING	a (FT)	Vult (MPH)	Vasd (MPH)	A (SF)	ZONE 1 (PSF)	ZONE 2 (PSF)	ZONE 3 (PSF)	ZONE 4 (PSF)	ZONE 5 (PSF)
ZONE A	3	140	108	<10	+12.2 -19.4	+12.2 -33.7	+12.2 -49.8	+21.2 -23.0	+21.2 -28.3
				20	+11.1 -18.8	+11.1 -31.0	+11.1 -46.6	+20.2 -22.0	+20.2 -26.4
				50	+9.7 -18.1	+9.7 -27.4	+9.7 -42.3	+18.9 -20.7	+18.9 -26.4
				100+	+9.6 -17.6	+9.6 -24.7	+9.6 -39.1	+18.0 -19.8	+18.0 -22.0
ZONE B	3	140	108	<10	+9.6 -23.0	+9.6 -26.5	+9.6 -35.5	+19.4 -23.0	+19.4 -28.3
				20	+9.6 -23.0	+9.6 -26.0	+9.6 -32.3	+18.5 -22.0	+18.5 -26.4
				50	+9.6 -23.0	+9.6 -25.3	+9.6 -28.0	+17.4 -20.7	+17.4 -23.9
				100+	+9.6 -23.0	+9.6 -24.7	+9.6 -24.7	+16.5 -19.7	+16.5 -22.0

NOMINAL C&C WIND PRESSURE PLAN NOTES:

1. PRESSURES SHOWN ABOVE ARE NOMINAL COMPONENTS AND CLADDING PRESSURES, CONVERTED FROM ULTIMATE PRESSURES USING A 0.6 MULTIPLIER FACTOR. NO FURTHER REDUCTION IS ALLOWED.

   A - INDICATES TRIBUTARY AREA IN S.F.
   a - INDICATES END ZONE WIDTH IN FT.
   Vult - INDICATES ULTIMATE DESIGN WIND SPEED IN MPH
   Vasd - INDICATES NOMINAL DESIGN WIND SPEED IN MPH

2. GROSS PRESSURES ARE FOR JOISTS, WINDOWS, DOORS, VENEER, LIGHT GAGE METAL FRAMING, METAL DECK ATTACHMENTS, ROOFING, ROOFING ACCESSORIES AND OTHER BUILDING COMPONENTS AND CLADDING.

3. GROSS PRESSURES SHALL BE LINEARLY INTERPOLATED FOR (A) NOT SHOWN IN TABLE.

4. POSITIVE PRESSURES INDICATE PRESSURES ACTING TOWARD A PROJECTED SURFACE. NEGATIVE PRESSURES INDICATE PRESSURES ACTING AWAY FROM A PROJECTED SURFACE.

5. ROOF AND ZONES (1) THRU (3)

6. WALL ZONES (4) AND (5)

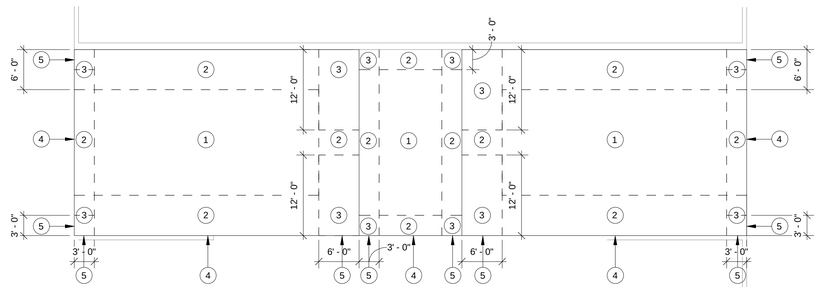
7. NET DESIGN ROOF PRESSURES SHALL BE CALCULATED USING THE SELFWEIGHT (DEAD LOAD) OF THE MATERIALS. HOWEVER, THE MAXIMUM REDUCTION OF WIND UPLIFT PRESSURES SHALL BE LIMITED TO THE SELF WEIGHT OF THE ROOF SYSTEM PLUS 5 PSF FOR SUPERIMPOSED DEAD LOADS.

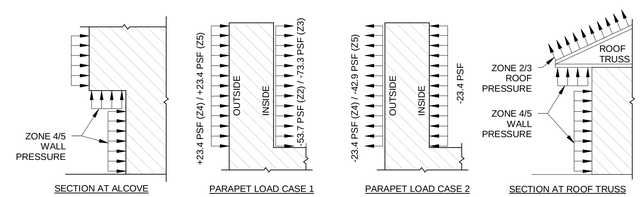
8. INTERNAL PRESSURE COEFFICIENT FOR ENCLOSED BUILDING EQUALS +0.18 AND -0.18
   INTERNAL PRESSURE COEFFICIENT FOR OPEN STRUCTURE EQUALS +/- 0.00
   INTERNAL PRESSURE COEFFICIENT FOR PARTIALLY ENCLOSED STRUCTURE EQUALS +/- 0.55

9. ROOF TOP EQUIPMENT SHALL BE DESIGNED FOR A LATERAL PRESSURE OF 67.3 PSF AND A SIMULTANEOUS UPLIFT PRESSURE OF 32.6 PSF (ROOF TOP EQUIPMENT PER FBC SECTION 1620.6 WITH Qh = 21.7 PSF)

10. AT ALCOVES AND CANOPIES, THE TOTAL UPLIFT PRESSURE ON THE ALCOVE SOFFIT OR CANOPY SHALL EQUAL THE WALL PRESSURE IN THAT AREA.

11. PARAPET DESIGN WIND PRESSURE LOAD CASES: ZONE B
    LOAD CASE 1: OUTSIDE FACE: +23.4 PSF (ZONE 4) AND +23.4 PSF (ZONE 5)
    INSIDE FACE: -53.7 PSF (ZONE 2) AND -73.3 PSF (ZONE 3)
    LOAD CASE 2: OUTSIDE FACE: -23.4 PSF (ZONE 4) AND -42.9 PSF (ZONE 5)
    INSIDE FACE: +23.4 PSF
    NOTE THAT CASE 1 & CASE 2 WIND PRESSURES ARE APPLIED INDEPENDENTLY.

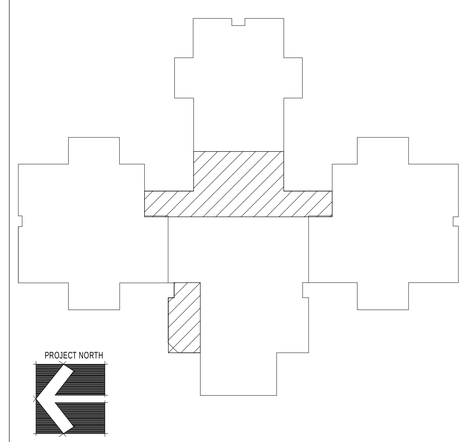




SECTION AT ALCOVE | PARAPET LOAD CASE 1 | PARAPET LOAD CASE 2 | SECTION AT ROOF TRUSS

3 WIND LOAD DIAGRAM - ZONE B
3/32" = 1'-0"

KEY PLAN



REVISIONS AND UPDATES

02/14/14	CONSTRUCTION DOCUMENTS FOR BID/PERMIT

SUWANNEE COUNTY SCHOOL BOARD
SUWANNEE PRIMARY SCHOOL
ADDITIONS AND REMODELING
1625 WALKER AVE., SW LIVE OAK, FLORIDA

WIND LOAD DIAGRAM

drawn SES | checked GCK | approved GCK

AA-C001560

job no. 2012.51

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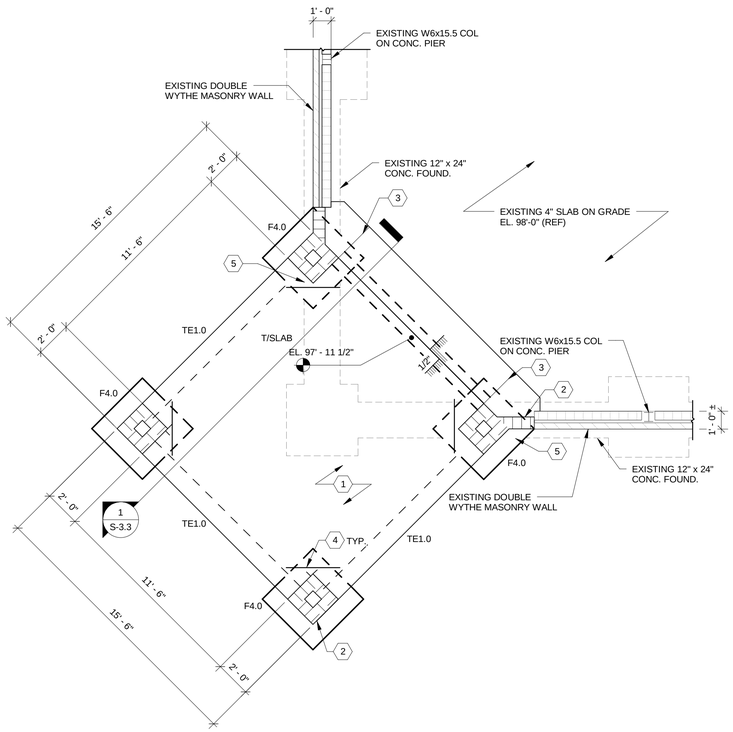
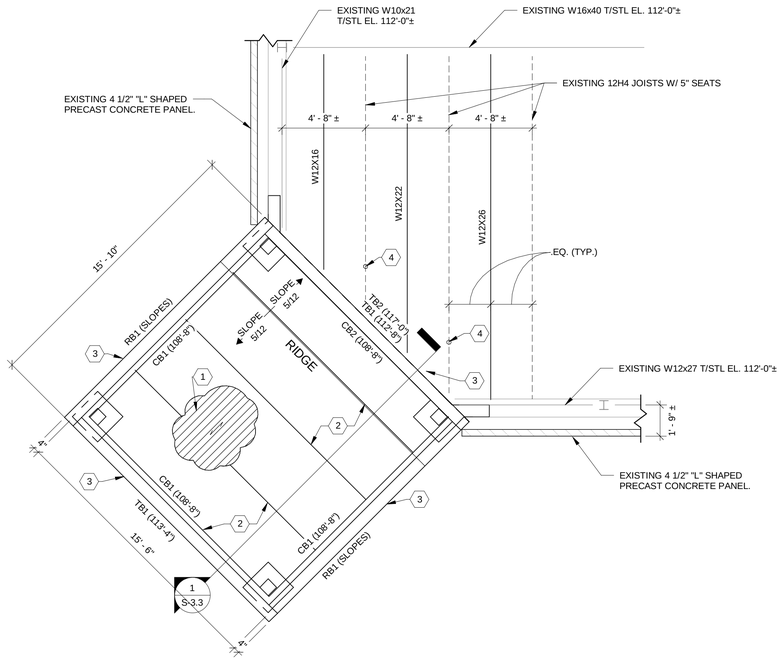


1 FOUNDATION PLAN - ZONE A
1/4" = 1'-0"
T / SLAB EL. 98"-00" MATCH EXISTING TYP. U.N.O.
T / FDN EL. 96"-00" MATCH EXISTING



2 ROOF FRAMING PLAN - ZONE A
1/4" = 1'-0"
T / TB1 EL. VARIES
T / STL. EL. 112"-5"± (MATCH EXISTING)

FOUNDATION PLAN NOTES

1. 4" CONCRETE SLAB ON GRADE REINFORCED W/ 6X6-W2.9XW2.9 WWF ON 15 MIL CLASS A VAPOR RETARDER ON COMPACTED FILL. SLOPE PER ARCHITECTURAL PLANS.
2. 8" CMU LOAD BEARING WALL REINFORCED WITH #5 AT 24" O.C. AND AT WALL CORNERS, TERMINATIONS, DOOR JAMBS, AND INTERSECTIONS IN GROUT FILLED CELLS.
3. PROVIDE SAW CUT CONTROL JOINTS (C.J.) AT LOCATIONS INDICATED ON PLANS THROUGHOUT ENTIRE SLAB ON GRADE, SEE TYPICAL SLAB ON GRADE CONTROL JOINT DETAIL.
4. #4 x 3'-0" CRACK CONTROL REINFORCING AT MID DEPTH OF SLAB
5. DEMOLISH AND REMOVE EXISTING FOUNDATION AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION.

ROOF FRAMING PLAN NOTES

1. 1 1/2", 22 GA G60 GALVANIZED ROOF DECK (VULCRAFT TYPE B OR APPROVED EQUAL)
2. C8x11.5 PURLINS @ 5' - 0" O.C. MAX. TO SUPPORT ROOF DECK AND SOFFIT. INCLINE C8'S TO MATCH ROOF SLOPE. REFER TO SECTION FOR ADDITIONAL INFORMATION.
3. 8" CMU LOAD BEARING WALL REINFORCED WITH #5 AT 32" O.C. AND AT WALL CORNERS, TERMINATIONS, DOOR JAMBS, AND INTERSECTIONS IN GROUT FILLED CELLS.
4. TEMPORARILY SHORE EXISTING 12H4 ROOF JOISTS AT BOTTOM PANEL POINTS UNTIL NEW W12 BEAMS ARE INSTALLED.
5. INSTALL NEW W12 BEAMS EQUIDISTANT BETWEEN EXISTING JOISTS. (3 LOCATIONS) INSTALL TIGHT TO UNDERSIDE OF DECK PRIOR TO REMOVAL OF JOIST SHORES.

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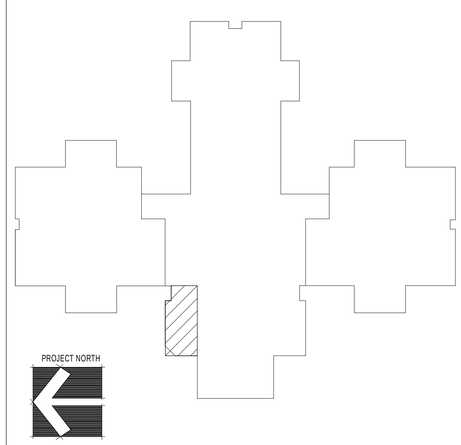
KEY PLAN



REVISIONS AND UPDATES

02/14/14		CONSTRUCTION DOCUMENTS FOR BID/PERMIT

SUWANNEE COUNTY SCHOOL BOARD
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1625 WALKER AVE., SW LIVE OAK, FLORIDA
FOUNDATION AND FRAMING ZONE A

drawn SES | checked GCK | approved GCK

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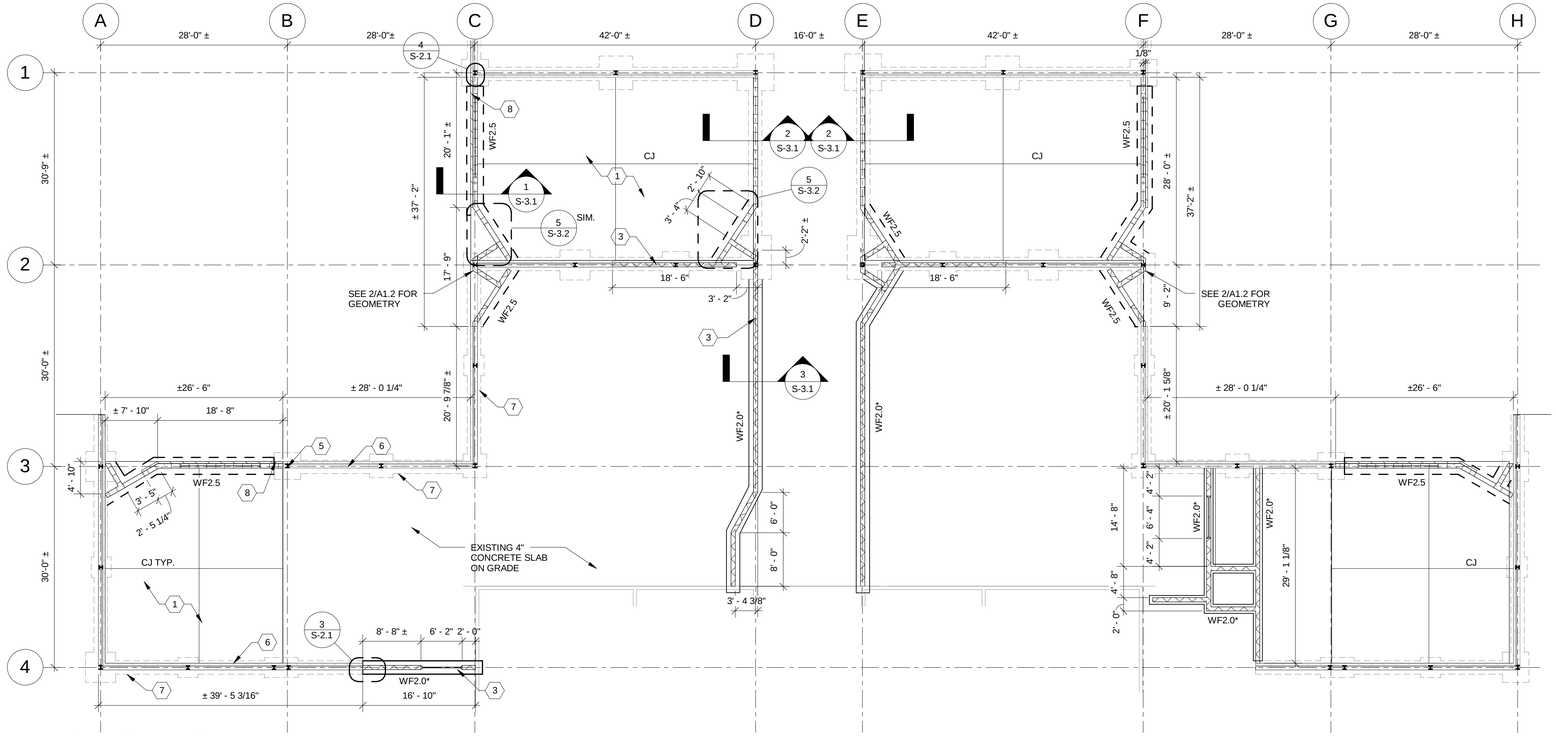


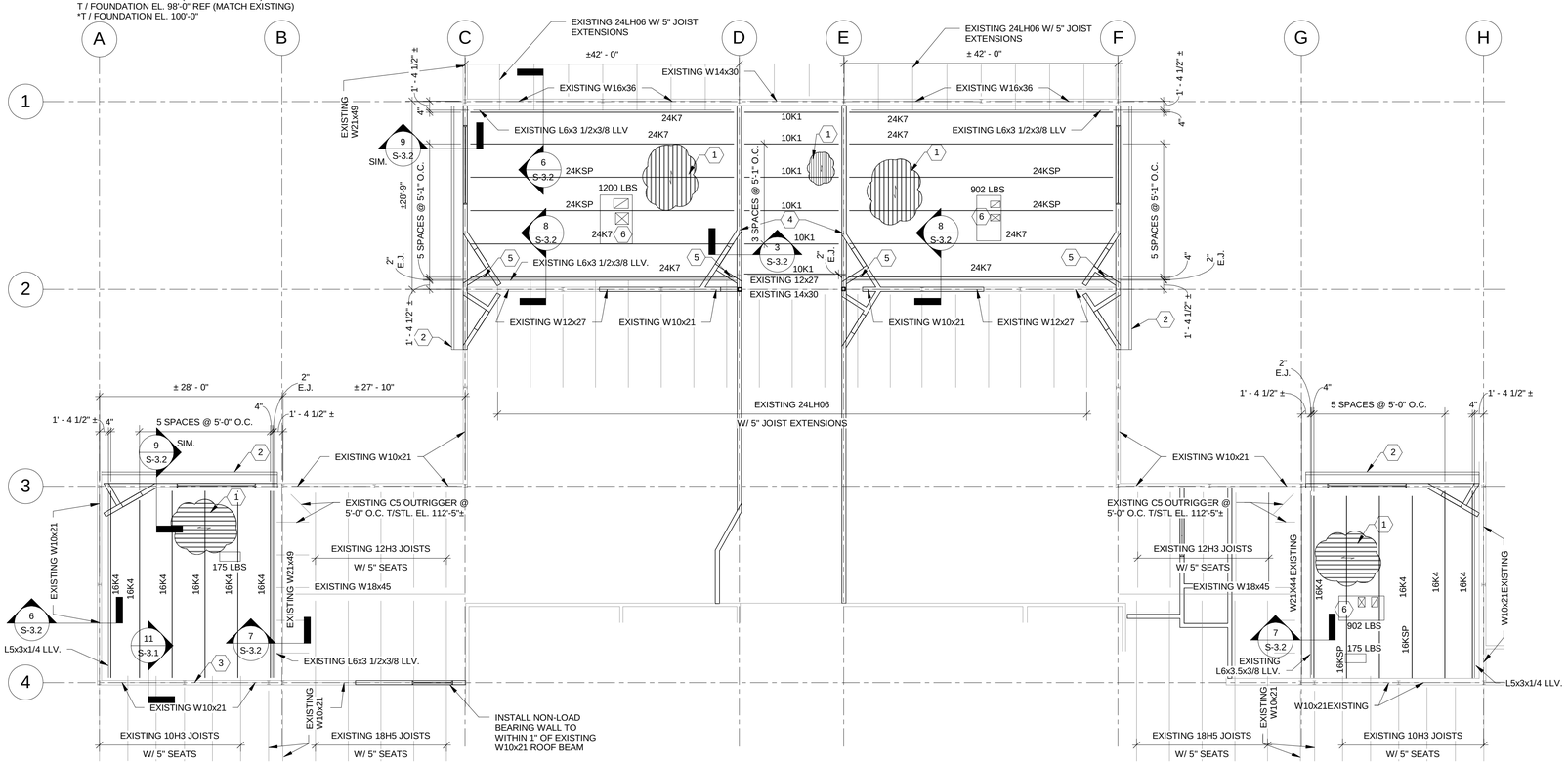
FOUNDATION PLAN - ZONE B

3/32" = 1'-0"

T / SLAB EL. 100'-0" REF (MATCH EXISTING)

T / FOUNDATION EL. 98'-0" REF (MATCH EXISTING)

*T / FOUNDATION EL. 100'-0"



ROOF FRAMING PLAN - ZONE B

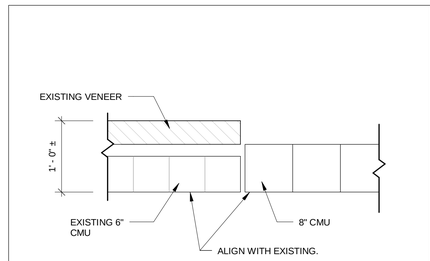
3/32" = 1'-0"

T / EXISTING STEEL EL. 112'-0±

T / BEAM EL. 112'-0" (MATCH EXISTING JOIST BEARING)

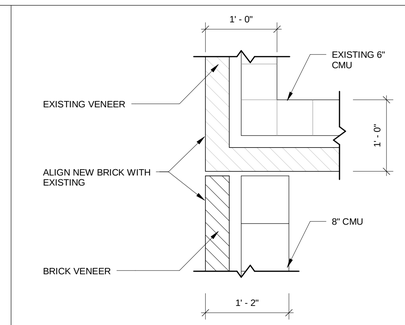
FOUNDATION PLAN NOTES

1. 4" CONCRETE SLAB ON GRADE REINFORCED W/ 6X6-W2.9XW2.9 WWF ON 15 MIL CLASS A VAPOR BARRIER ON COMPACTED FILL.
2. 8" LOAD BEARING CMU WALL REINFORCED WITH #5 AT 32" O.C. AND AT WALL CORNERS, TERMINATIONS, DOOR JAMBS, AND INTERSECTIONS IN GROUT FILLED CELLS.
3. 8" NON LOAD BEARING CMU WALL REINFORCED WITH #5 AT 8'-0" O.C. AND AT WALL CORNERS, TERMINATIONS, DOOR JAMBS, AND INTERSECTIONS IN GROUT FILLED CELLS.
4. PROVIDE SAW CUT CONTROL JOINTS (C.J.) AT LOCATIONS INDICATED ON PLANS THROUGHOUT ENTIRE SLAB ON GRADE, SEE TYPICAL SLAB ON GRADE CONTROL JOINT DETAIL.
5. EXISTING W6 STRUCTURAL COLUMN (TYP). SET ON 12" SQ CONCRETE PIER AND SPREAD FOUNDATION.
6. EXISTING DOUBLE WYTHE CMU WALL (4" BRICK + 6" CMU - 12" TOTAL).
7. EXISTING 12" X 24" CONTINOUS STRIP FOUNDATION.
8. BRICK VENEER, SEE ARCHITECTURAL DRAWINGS.



3 EXISTING TO NEW WALL

1" = 1'-0"

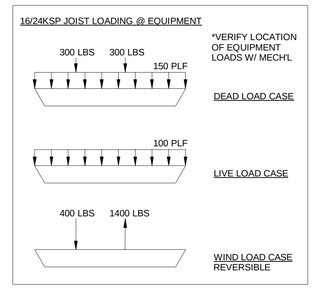


4 WALL CORNER

1" = 1'-0"

ROOF FRAMING PLAN NOTES

1. 1 1/2" 20 GA, G90 GALVANIZED ROOF DECK, VULCRAFT TYPE "CVS" OR APPROVED EQUAL W/ LIGHTWEIGHT CONC. TOPPING.
2. EXISTING PRECAST CONCRETE PANEL (RELOCATED)
3. COVER PLATE EXISTING W10X21 BEAM, SEE DETAIL 11/S-3.1 PRIOR TO ROOF INSTALLATION.
4. REMOVE EXISTING ROOF DECK AND W14x30 ROOF BEAMS.
5. PROVIDE JOIST EXTENDER AS REQUIRED.
6. ROOF TOP EQUIPMENT, 1200 LB MAXIMUM. SEE JOIST LOADING DIAGRAM BELOW FOR REQUIRED LOADS, WHICH ARE PRESENTED IN PRIMARY LOAD CASES AND MUST BE COMBINED USING FBC LOAD COMBINATIONS. WIND LOADS SHOWN ARE IN ASD UNITS.



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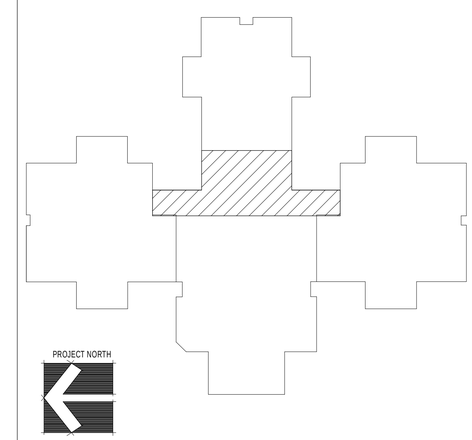
KEY PLAN



REVISIONS AND UPDATES

02/14/14	CONSTRUCTION DOCUMENTS FOR BID/PERMIT

SUWANNEE COUNTY SCHOOL BOARD

SUWANNEE PRIMARY SCHOOL ADDITIONS AND REMODELING

1625 WALKER AVE., SW LIVE OAK, FLORIDA

FOUNDATION AND FRAMING ZONE B

drawn SES | checked GCK | approved GCK

job no. 2012.51

S-2.1

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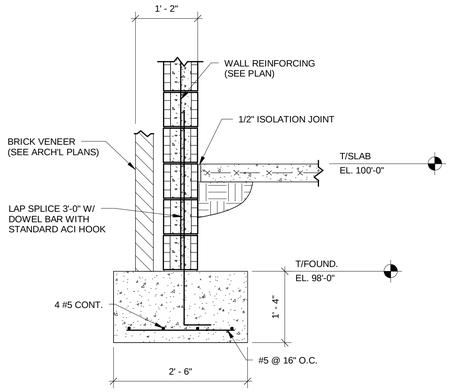
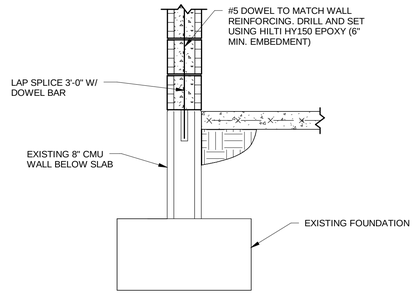
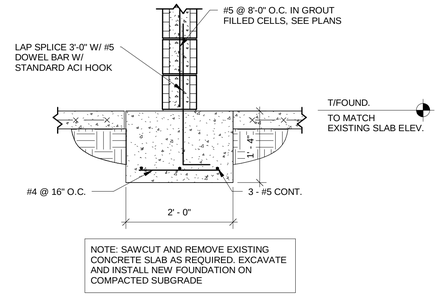


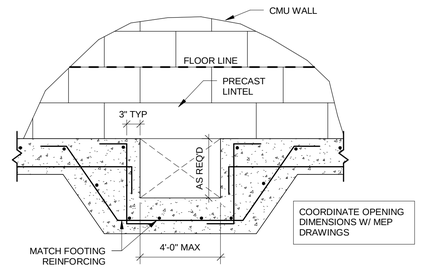
1 WF2.5 FOUNDATION AND WALL SECTION
3/4" = 1'-0"



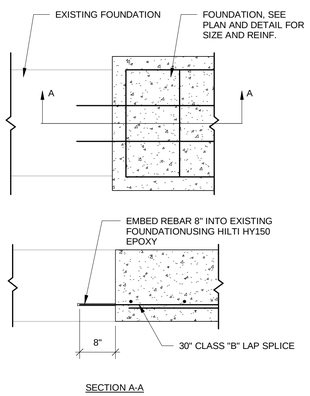
2 WALL ON EXISTING FOUNDATION
3/4" = 1'-0"



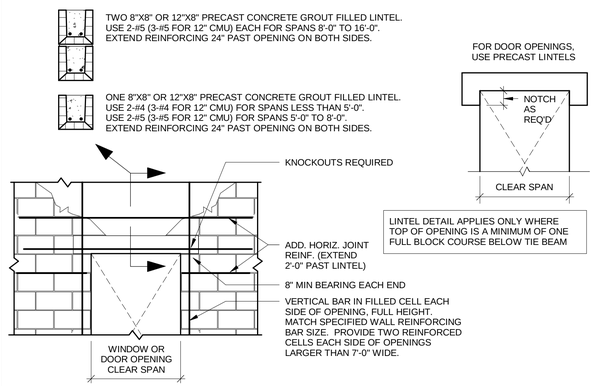
3 WF2.0* TYPICAL FOUNDATION
3/4" = 1'-0"



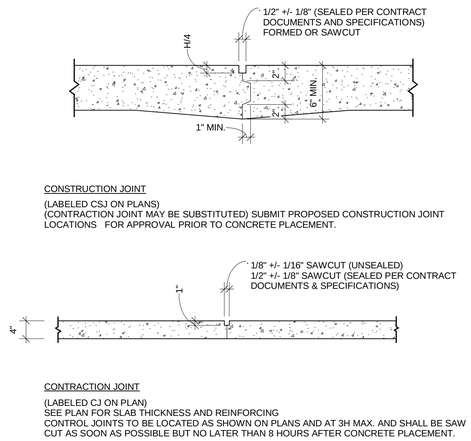
4 TYPICAL STEP FOOTING FOR UTILITES
3/4" = 1'-0"



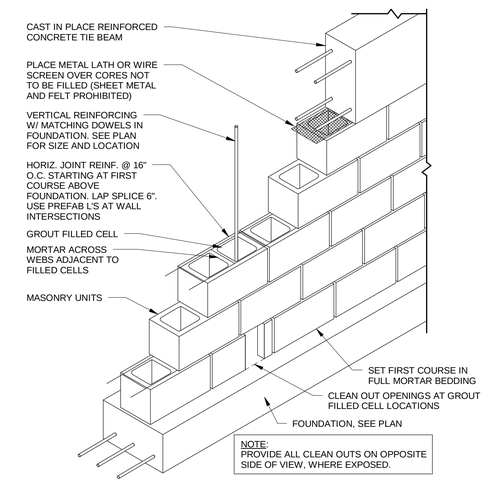
5 NEW TO EXISTING FOUNDATION
3/4" = 1'-0"



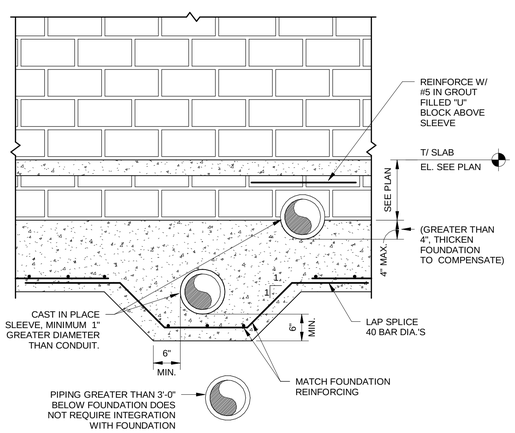
6 TYPICAL MASONRY WALL OPENING LINTEL DETAIL
3/4" = 1'-0"



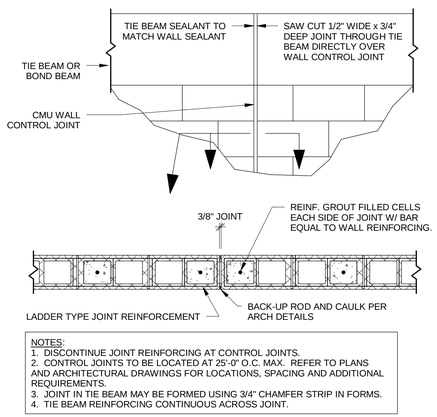
7 TYPICAL SLAB ON GRADE CONTROL JOINTS
3/4" = 1'-0"



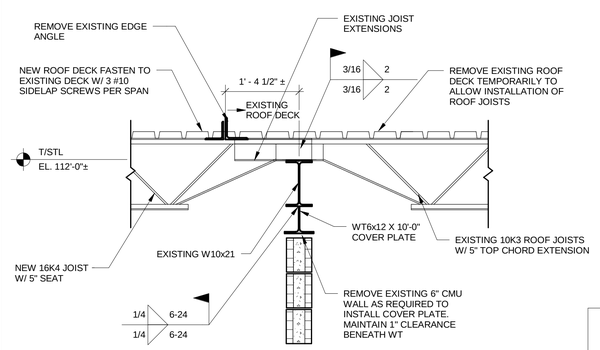
8 TYPICAL MASONRY WALL CONSTRUCTION
3/4" = 1'-0"



9 TYPICAL FOUNDATION CONDUIT SLEEVE
3/4" = 1'-0"



10 TYPICAL MASONRY CONTROL JOINT
3/4" = 1'-0"



11 "K" JOIST BEARING OVER EXISTING STEEL BEAM
3/4" = 1'-0"

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REVISIONS AND UPDATES		
02/14/14		CONSTRUCTION DOCUMENTS FOR BID/PERMIT

SUWANNEE COUNTY SCHOOL BOARD
SUWANNEE PRIMARY SCHOOL
ADDITIONS AND REMODELING
1625 WALKER AVE., SW LIVE OAK, FLORIDA

SECTIONS AND DETAILS

drawn SES | checked GCK | approved GCK

job no. 2012.51

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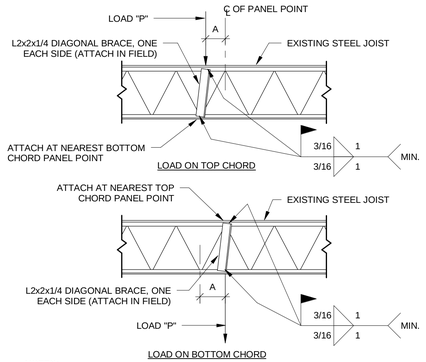
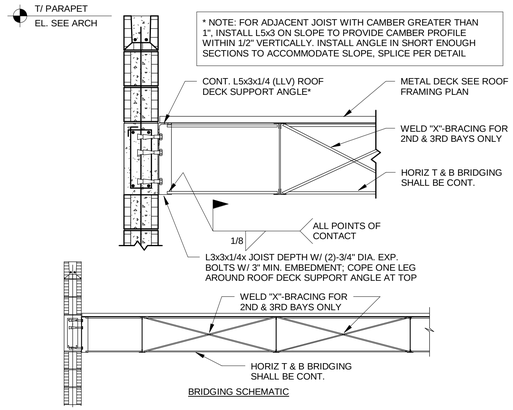


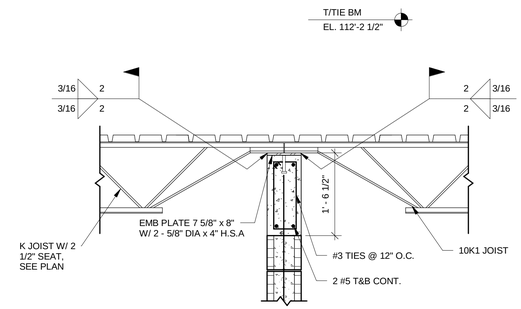
NOTES:

1. DIAGONAL BRACE IS NOT REQUIRED FOR "A" LESS THAN TWO INCHES.
2. PROVIDE DIAGONAL BRACE AT LOCATION OF CONCENTRATED LOADS SUCH AS PARTITIONS, HEAVY PIPES, MECHANICAL UNITS, HEAVY LIGHTS AND ANY OTHER CONCENTRATED LOADS AS DIRECTED BY ENGINEER.
3. P = CONCENTRATED LOAD GREATER THAN 100 LBS.

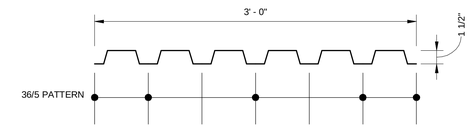
1 TYPICAL JOIST REINFORCING
3/4" = 1'-0"



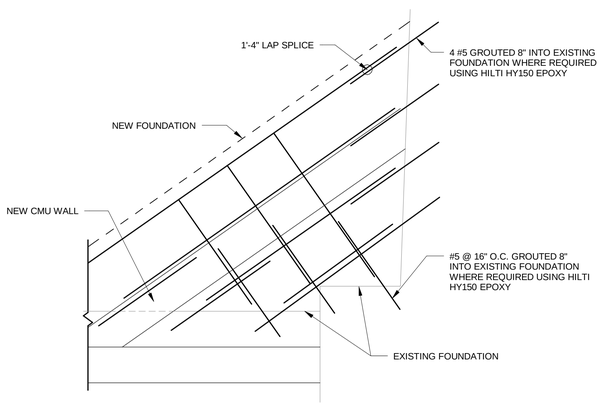
2 TYPICAL BRIDGING DETAIL AT MASONRY
3/4" = 1'-0"



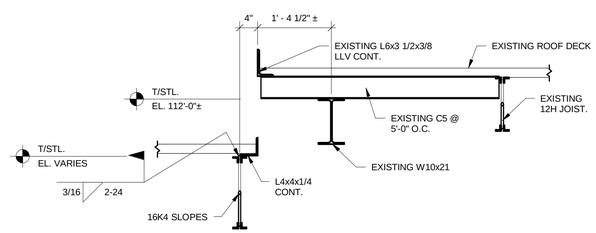
3 JOIST W/ CMU SUPPORT
3/4" = 1'-0"



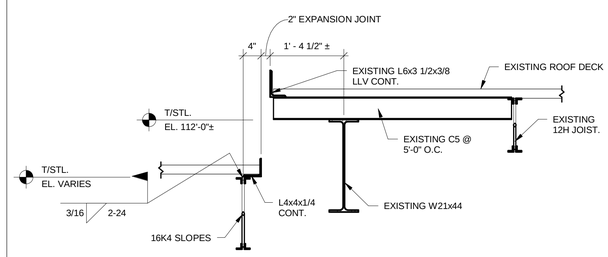
4 ROOF DECK FASTENING PATTERN
1 1/2" = 1'-0"



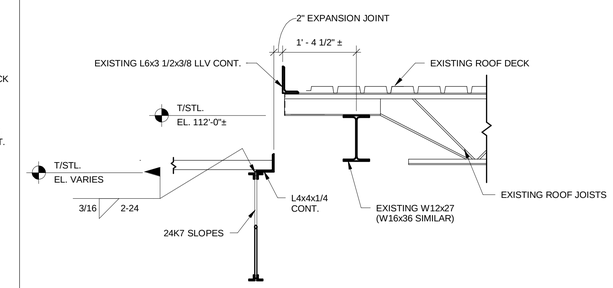
5 EXISTING FOUNDATION EXTENSION
3/4" = 1'-0"



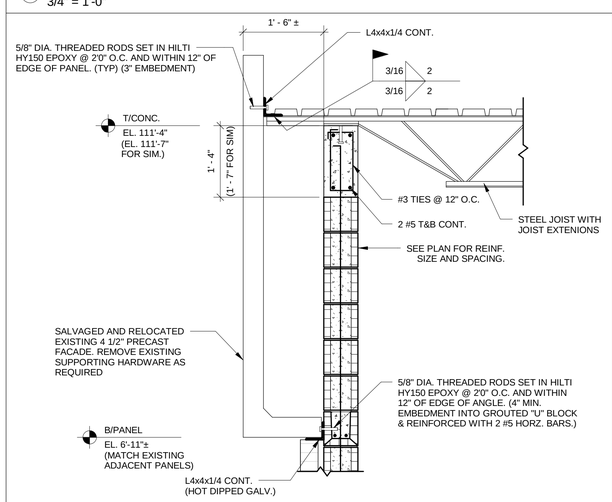
6 ROOF SECTION
3/4" = 1'-0"



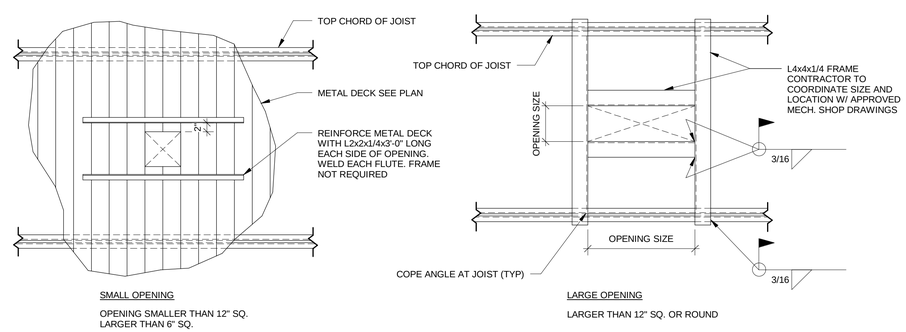
7 ROOF SECTION AT EXPANSION JOINT
3/4" = 1'-0"



8 ROOF SECTION AT EXPANSION JOINT W/ FRAMING DIRECTION CHANGE
3/4" = 1'-0"



9 TYPICAL WALL SECTION WITH PRECAST FASCIA
3/4" = 1'-0"



10 TYPICAL ROOF OPENING DETAIL
3/4" = 1'-0"

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REVISIONS AND UPDATES	
02/14/14	CONSTRUCTION DOCUMENTS FOR BID/PERMIT

SUWANNEE COUNTY SCHOOL BOARD
SUWANNEE PRIMARY SCHOOL
ADDITIONS AND REMODELING
1625 WALKER AVE., SW LIVE OAK, FLORIDA

SECTIONS AND DETAILS

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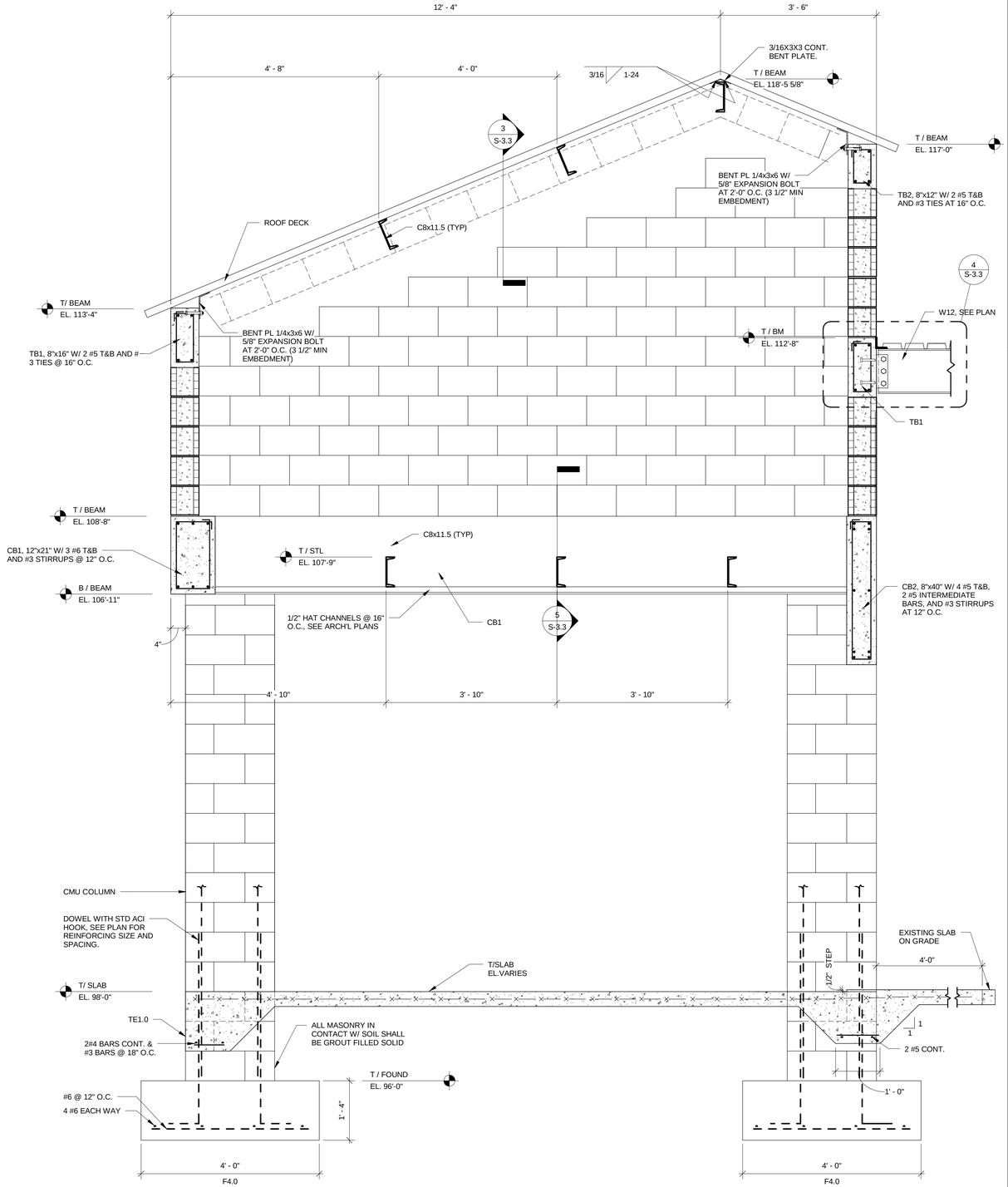
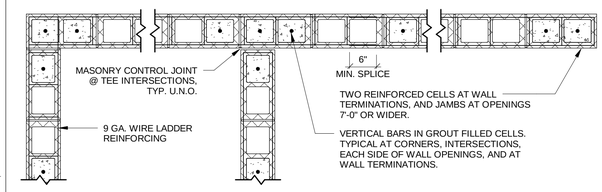


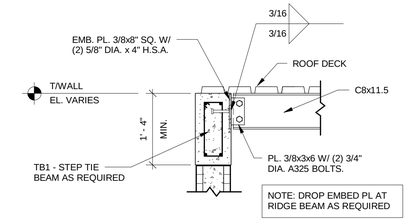
1 SECTION AT ENTRY
3/4" = 1'-0"



NOTES:

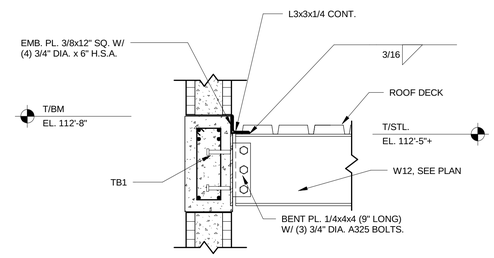
1. TYPICAL WIRE LADDER REINFORCEMENT FOR ALL C.M.U. WALLS SPACED @ 16" O.C. VERTICALLY. PROVIDE ADDITIONAL LAYERS ABOVE AND BELOW WINDOW AND DOOR OPENINGS
2. SEE PLAN FOR SIZE AND SPACING OF VERTICAL REINFORCING BARS
3. USE PREFABRICATED L-SHAPED WIRE SEGMENTS AT WALL INTERSECTIONS
4. TERMINATE HORIZONTAL WIRE REINFORCING AT CONTROL JOINTS

2 TYPICAL HORIZONTAL WALL REINFORCING / VERTICAL CORNER REINFORCING
3/4" = 1'-0"

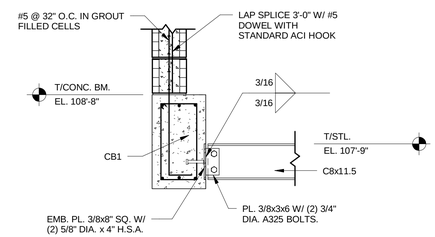


NOTE: DROP EMBED PL AT RIDGE BEAM AS REQUIRED

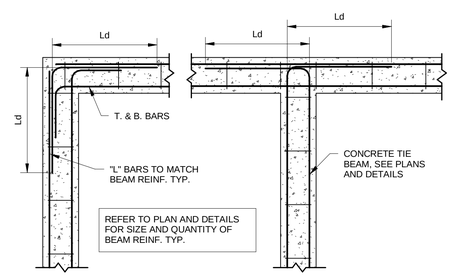
3 STEPPED TIE BEAM TO ROOF FRAMING SUPPORT
3/4" = 1'-0"



4 CONCRETE BEAM TO ROOF STEEL BEAM AT ENTRY
1" = 1'-0"



5 CEILING SOFFIT SUPPORT
3/4" = 1'-0"



REFER TO PLAN AND DETAILS FOR SIZE AND QUANTITY OF BEAM REINF. TYP.

6 TYPICAL CONC. TIE BEAM CORNER REINF. (CB & TB)
3/4" = 1'-0"

REVISIONS AND UPDATES		
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SUWANNEE PRIMARY SCHOOL
ADDITIONS AND REMODELING
1625 WALKER AVE., SW LIVE OAK, FLORIDA

SECTIONS AND DETAILS

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Gary C. Krueger, P.E.
Florida License #40788

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PLUMBING SYMBOL LEGEND

SYMBOL	DESCRIPTION
AV	- ACID VENT
AW	- ACID WASTE
AW	- BELOW GROUND ACID WASTE
CD	- ABOVE GROUND CONDENSATE DRAIN
CD	- BELOW GROUND CONDENSATE DRAIN
CA	- COMPRESSED AIR
SW	- SOFTEN WATER
	- DOMESTIC COLD WATER
	- DOMESTIC HOT WATER
	- DOMESTIC HOT WATER RECIRCULATING
G	- GAS
GR	- KITCHEN WASTE (GREASE)
S	- ABOVE GROUND SANITARY
S	- BELOW GROUND SANITARY
	- SANITARY VENT
ST	- ABOVE GROUND STORM
ST	- BELOW GROUND STORM
STO	- OVERFLOW STORM DRAIN
STO	- BELOW GROUND OVERFLOW STORM
M	- WATER METER
	- HOSE BIBB OR WALL HYDRANT
CO	- CLEAN OUT PLUG
CO	- WALL CLEANOUT
CO	- FLOOR CLEAN OUT
FD FD	- FLOOR DRAIN
	- ROOF DRAIN
FS	- FLOOR SINK
	- SHUT-OFF VALVE IN VALVE BOX
	- SHUTOFF VALVE
	- BALL VALVE
	- CALIBRATED BALANCING VALVE
	- CHECK VALVE (SWING)
	- PRESSURE REDUCING VALVE
	- SOLENOID OPERATED VALVE
	- REDUCED PRESSURE BACKFLOW PREVENTER
	- RELIEF OR SAFETY VALVE
	- GAS COCK
	- GAS PRESSURE REGULATOR
	- SHUTOFF VALVE ON RISER
	- GAS COCK ON RISER
	- CONNECTION, TOP
	- CONNECTION, BOTTOM
	- ELBOW, TURNED DOWN
	- ELBOW, TURNED UP
	- TEE, TURNED UP
	- TEE, TURNED DOWN
	- CAP
	- DIRECTION OF FLOW
1	- REVISION REFERENCE

NOTE: SOME SYMBOLS SHOWN ON THIS LEGEND MAY NOT PERTAIN TO THIS PROJECT

PLUMBING ABBREVIATION

SYMBOL	DESCRIPTION
AFF	- ABOVE FINISH FLOOR
AW	- ACID WASTE
AV	- ACID VENT
CA	- COMPRESSED AIR
CD	- CONDENSATE DRAIN
CFH	- CUBIC FEET PER HOUR
CO	- CLEANOUT
CONT	- CONTINUATION
CW	- DOMESTIC COLD WATER
DN	- DOWN
DS	- DOWNSPOUT
DWG	- DRAWING
EXIST	- EXISTING
°F	- DEGREE FAHRENHEIT
FCO	- FLOOR CLEANOUT
FD	- FLOOR DRAIN
FS	- FLOOR SINK
G	- GAS
GPH	- GALLONS PER HOUR
GPM	- GALLONS PER MINUTE
GR	- KITCHEN WASTE (GREASE)
HB	- HOSE BIBB
HD	- HUB DRAIN
HW	- DOMESTIC HOT WATER
HWR	- DOMESTIC HOT WATER RECIRCULATING
IE	- INVERT ELEVATION
IW	- INDIRECT WASTE
KW	- KILOWATT
LBS	- POUNDS
MH	- MANHOLE
NC	- NORMALLY CLOSED
NIC	- NOT IN CONTRACT
NO	- NORMALLY OPEN
NTS	- NOT TO SCALE
OD	- OUTSIDE DIAMETER
PRV	- PRESSURE REDUCING VALVE
PSI	- POUNDS PER SQUARE INCH
PVC	- POLYVINYL CHLORIDE PIPE
RD	- ROOF DRAIN
RPBP	- REDUCED PRESSURE BACKFLOW PREVENTOR
SAN	- SANITARY
SD	- STORM DRAIN
SF	- SQUARE FEET
SH	- SHEET
ST	- STORM
STO	- OVERFLOW STORM DRAIN
SW	- SOFTEN WATER
	- VENT
VAC	- VACUUM
VTR	- VENT THRU ROOF
WCO	- WALL CLEANOUT
WTR	- WATER

GENERAL NOTES

1. REFERENCE THE SPECIFICATIONS FOR MATERIAL AND EQUIPMENT INSTALLATION STANDARDS.
2. THE PLUMBING INSTALLATION SHALL COMPLY WITH ALL STATE AND LOCAL CODES.
3. PLANS ARE NOT COMPLETELY TO SCALE. PIPE ROUTING SHOWN IS SCHEMATIC AND IS NOT INTENDED TO INDICATE EXACT ROUTING. CONTRACTOR SHALL PROVIDE ANY CLEARANCES. VERIFY STRUCTURAL, MECHANICAL AND ELECTRICAL INSTALLATIONS AND OTHER POTENTIAL OBSTRUCTIONS AND ROUTE PIPING TO AVOID INTERFERENCES.
4. PROVIDE ALL OFFSETS AND FITTINGS AND MAKE CONNECTION TO SITE UTILITIES.
5. CONCEAL PIPING ABOVE CEILINGS, WITHIN WALLS OR CHASES EXCEPT IN MECHANICAL ROOMS OR AS SPECIFICALLY NOTED.
6. PROVIDE ACCESS PANELS FOR ALL VALVES CONCEALED IN WALLS OR ABOVE NON-ACCESSIBLE CEILINGS.
7. SLEEVE AND/OR FIRESTOP ALL PENETRATIONS THROUGH RATED WALLS, CEILINGS, AND FLOORS WITH U/L LISTED ASSEMBLIES. FIRESTOP ASSEMBLIES SHALL BE EQUAL TO OR EXCEED THE RATING OF THE WALL, CEILING OR FLOOR. SEE ARCHITECTURAL DRAWINGS FOR FINAL FINISHES.
8. FLASH AND COUNTER-FLASH ROOF PENETRATIONS.
9. PROVIDE FOUNDATION PAD PENETRATION SLEEVES. ALLOW 1" MINIMUM CLEARANCE BETWEEN SLEEVE INSIDE SURFACE AND PIPE EXTERIOR.
10. SEE ARCHITECTURAL DRAWINGS FOR FIXTURE LOCATIONS AND MOUNTING HEIGHTS.
11. PROVIDE AUTOMATIC TRAP PRIMERS FOR ALL FLOOR DRAIN TRAP SEALS.
12. PROVIDE AN AIR GAP, WHEN REQUIRED BY CODE, SERVING INDIVIDUAL FIXTURES, DEVICES, APPLIANCES AND APPARATUS.
13. ALL EXPOSED PIPE AND FITTINGS IN FINISHED AREAS SHALL BE CHROME PLATED.
14. MOUNT WALL HYDRANTS 24" ABOVE FINISHED GRADE.
15. PROVIDE CLEANOUTS IN ACCORDANCE WITH ALL STATE AND LOCAL CODES. INSTALL CLEANOUT WITH COVER FLUSH TO FINISH SURFACE. PROVIDE WALL CLEANOUTS AT BASE OF EACH SANITARY AND STORM RISER. MOUNT CLEANOUT 24" AFF.
16. COORDINATE EXACT FLOOR DRAIN LOCATIONS WITH ARCHITECTURAL DRAWINGS. SET FLOOR DRAINS BELOW FINISHED FLOOR TO ALLOW FOR FLOOR SLOPING TO THE DRAIN.
17. COORDINATE PIPING WITH ALL ELECTRICAL EQUIPMENT (PANELS, TRANSFORMERS, ETC.) PRIOR TO ANY INSTALLATION. DO NOT ROUTE ANY PIPING OVER ANY ELECTRICAL PANELS UNDER ANY CIRCUMSTANCES. ANY PIPING RUN OVER PANELS SHALL BE RE-ROUTED AT NO ADDITIONAL COST.
18. ALL WALL MOUNTED LAVATORIES SHALL BE ATTACHED TO FLOOR MOUNTED CARRIER DESIGNED TO WITHSTAND A VERTICAL LOAD OF 250 POUNDS ON THE FRONT OF THE FIXTURE.
19. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND VERIFYING ALL EXISTING UTILITIES BELOW GRADE PRIOR TO CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO RELOCATE ANY EXISTING UTILITIES THAT MAY INTERFERE WITH THE PROPOSED CONSTRUCTION. CONTRACTOR SHALL CALL "FLORIDA ONE CALL" AT 1-800-SUN-SHINE 48 HOURS BEFORE DIGGING.
20. ROOF DRAINAGE FOR BUILDING IS PROVIDED BY GUTTERS AND DOWNSPOUTS. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

WC-1 FLOOR MOUNTED ACCESSIBLE WATER CLOSET

VITREOUS CHINA, 1.28 GALLON, FLOOR MOUNTED, ACCESSIBLE HEIGHT, SIPHON JET, ELONGATED CLOSET BOWL WITH 1-1/2" TOP SPUD.

1.28 GALLON CHROME PLATED FLUSH VALVE (EXPOSED), 1-INCH I.P.S. SCREW DRIVER ANGLE STOP WITH PROTECTIVE CAP, ADJUSTABLE TAILPIECE. VACUUM BREAKER FLUSH CONNECTION AND SPUD COUPLING FOR 1-1/2" TOP SPUD, DIE CAST WALL FLANGE WITH SET SCREW, SPUD FLANGE, SOLID RING PIPE SUPPORT AND ADA HANDLE.

SEAT SHALL BE EXTRA HEAVY SOLID PLASTIC WITH STAINLESS STEEL SELF SUSTAINING CHECK HINGE, OPEN FRONT LESS COVER.

NOTE: FLUSH VALVE HANDLE SHALL FACE WIDE SIDE OF STALL OR ROOM.

BASIS OF DESIGN
CHINA - AMERICAN STANDARD - 3043.001.020
FLUSH VALVE - AMERICAN STANDARD - 6047121.002/6065810
SEAT - BEMIS - 1665-SS

L-1 WALL HUNG LAVATORY, STANDARD SPOUT WRIST BLADE HANDLES

VITREOUS CHINA LAVATORY, 20" X 18", PUNCHED FOR 4" CENTERSET FITTING AND CONCEALED ARM CARRIER SUPPORT.

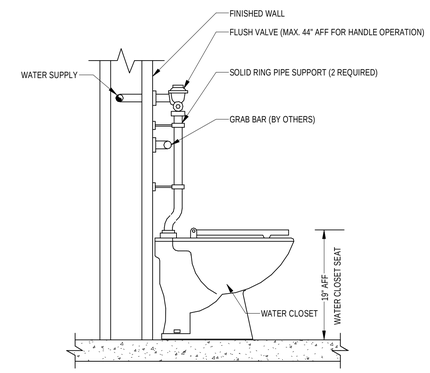
4" CENTERSET CHROME PLATED BRASS FAUCET, VANDAL RESISTANT 0.5 GPM FLOW REGULATOR, CHROME PLATED WRISTBLADE HANDLES WITH HOT AND COLD WATER CODED INDEXES.

CHROME PLATED STRAINER, CAST GRID STRAINER WITH 1-1/4" TAILPIECE, PLATED 17 GAUGE 1-1/4"X1-1/2" BRASS P-TRAP WITH CLEANOUT.

1/2" COMPRESSION X 3/8" COMPRESSION CHROME PLATED ANGLE SUPPLY STOPS WITH CHROME PLATED 12" FLEXIBLE RISERS AND ESCUTCHEONS.

FULLY ADJUSTABLE LAVATORY CARRIER ADJUSTED TO STANDARD HEIGHT.

BASIS OF DESIGN
CHINA - AMERICAN STANDARD - 0355.012
FAUCET - T&S BRASS - B-0890-VF05
STRAINER/TRAP - MCGUIRE - 155A/8902
SUPPLIES - MCGUIRE - 2165CC
CARRIER - ZURN ZR-1200 SERIES



THE HANDLE OF THE FLUSH VALVE SHALL FACE THE WIDE SIDE OF THE STALL (NO EXCEPTIONS).

1 WATER CLOSET
N.T.S.

S-1 COUNTER SUPPORTED LAVATORY, STANDARD SPOUT WRIST BLADE HANDLES

CROSSTOWN SINGLE BOWL UNDERMOUNT STAINLESS STEEL SINK.

4" CENTERSET CHROME PLATED BRASS FAUCET, VANDAL RESISTANT 0.5 GPM FLOW REGULATOR, CHROME PLATED WRISTBLADE HANDLES WITH HOT AND COLD WATER CODED INDEXES.

CHROME PLATED STRAINER, CAST GRID STRAINER WITH 1-1/4" TAILPIECE, PLATED 17 GAUGE 1-1/4"X1-1/2" BRASS P-TRAP WITH CLEANOUT.

1/2" COMPRESSION X 3/8" COMPRESSION CHROME PLATED ANGLE SUPPLY STOPS WITH CHROME PLATED 12" FLEXIBLE RISERS AND ESCUTCHEONS.

BASIS OF DESIGN
ELKAY - STAINLESS STEEL - ECTRU17179
FAUCET - T&S BRASS - B-0890-VF05
STRAINER/TRAP - MCGUIRE - 155A/8902
SUPPLIES - MCGUIRE - 2165CC

RD-1 ROOF DRAIN

MAIN ROOF DRAIN, COATED CAST IRON BODY WITH EXTENSION, COMBINATION ROOF SUMP RECEIVER AND UNDER DECK CLAMP. DRAIN SHALL HAVE COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL STOP AND GALVANIZED CAST IRON DOME.

BASIS OF DESIGN
ZURN - ZC-100-E-R-C

RD-2 ROOF DRAIN

SECONDARY ROOF DRAIN, COATED CAST IRON BODY WITH EXTENSION, COMBINATION ROOF SUMP RECEIVER AND UNDER DECK CLAMP. DRAIN SHALL HAVE COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL STOP AND GALVANIZED CAST IRON DOME.

PROVIDE WITH 2" DEEP EXTERNAL WATER DAM.

BASIS OF DESIGN
ZURN - ZC-100-E-R-C-89

DN-1 DOWNSPOUT NOZZLE

ALL NICKEL BRONZE BODY, OPTIONAL THREADED OR NO-HUIB INLET AND DECORATIVE FACE OF WALL FLANGE AND OUTLET NOZZLE.

MOUNT 18" ABOVE FINISHED GRADE. WHERE DISCHARGE TO VEGETATIVE AREA PROVIDE CONCRETE SPLASHBLOCK AT DISCHARGE.

BASIS OF DESIGN
ZURN - Z199

REVISIONS AND UPDATES

02/14/14		CONSTRUCTION DOCUMENTS FOR BID/PERMIT

SUWANNEE COUNTY SCHOOL BOARD
SUWANNEE PRIMARY SCHOOL
ADDITIONS AND REMODELING
1625 WALKER AVE., SW LIVE OAK, FLORIDA

PLUMBING LEGEND AND NOTES

drawn TMM | checked JPM | approved JPM

job no. 2012.51

P-0.1

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AA-C001560

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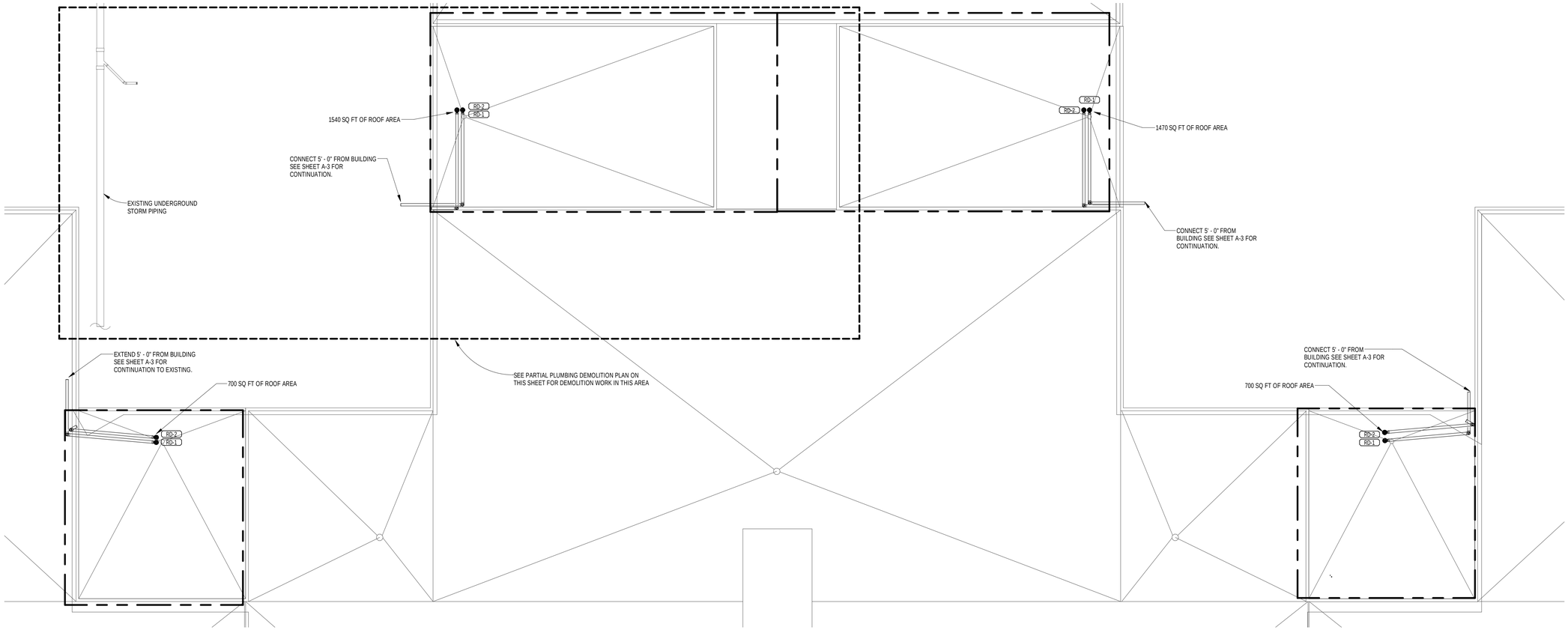
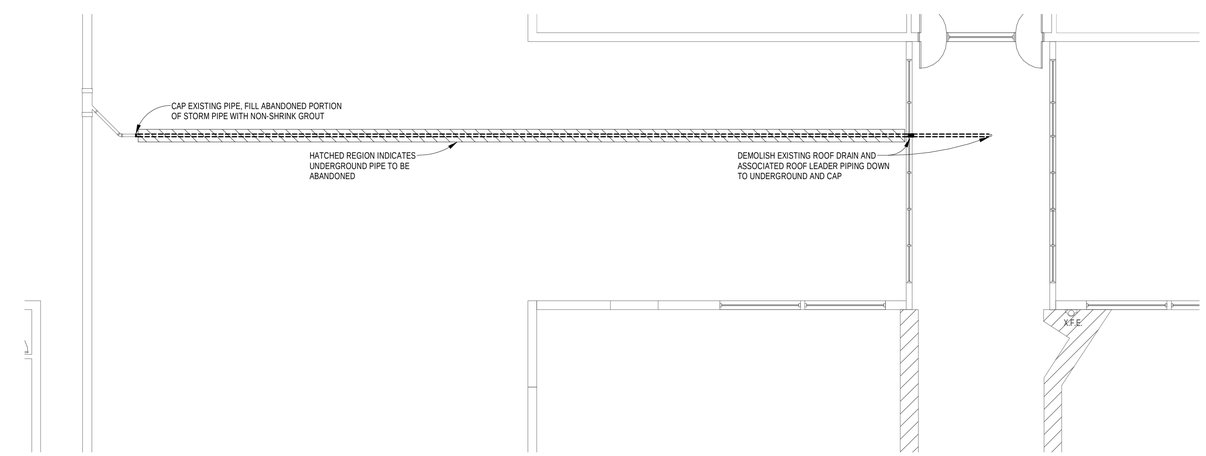


1 PLUMBING ROOF PLAN
1/8" = 1'-0"



2 PARTIAL PLUMBING DEMOLITION PLAN
1/8" = 1'-0"

REVISIONS AND UPDATES		
02/14/14		CONSTRUCTION DOCUMENTS FOR BID/PERMIT

SUWANNEE COUNTY SCHOOL BOARD
SUWANNEE PRIMARY SCHOOL
ADDITIONS AND REMODELING
1625 WALKER AVE., SW LIVE OAK, FLORIDA

PLUMBING ROOF PLAN

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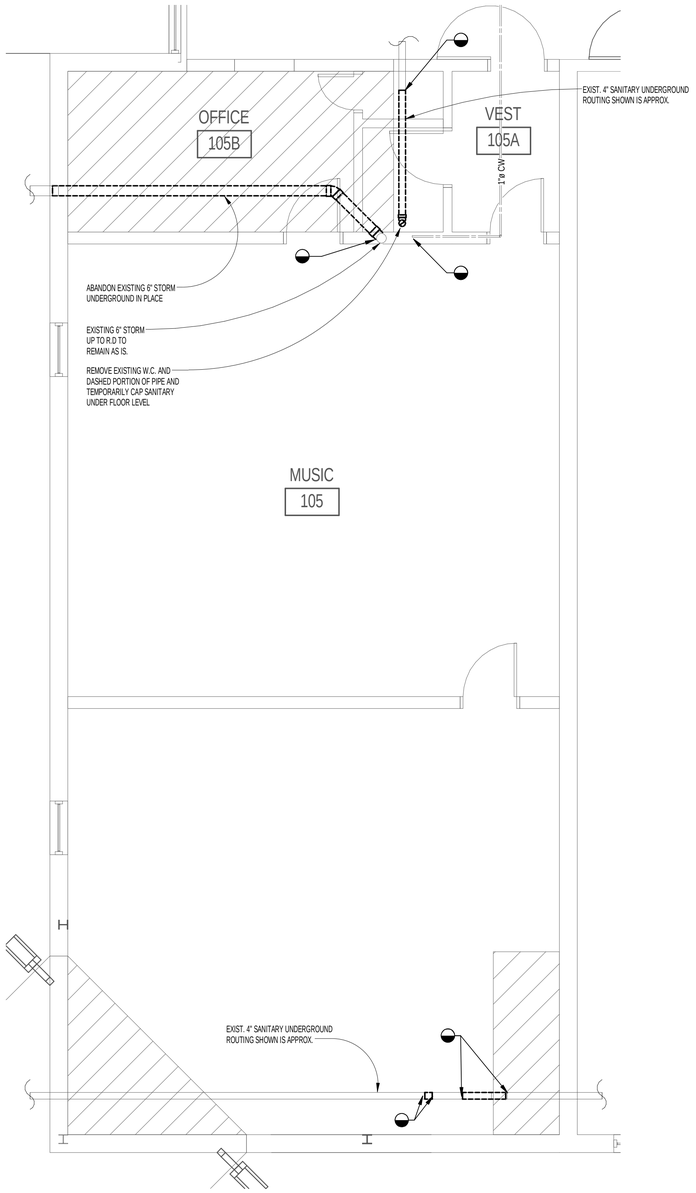
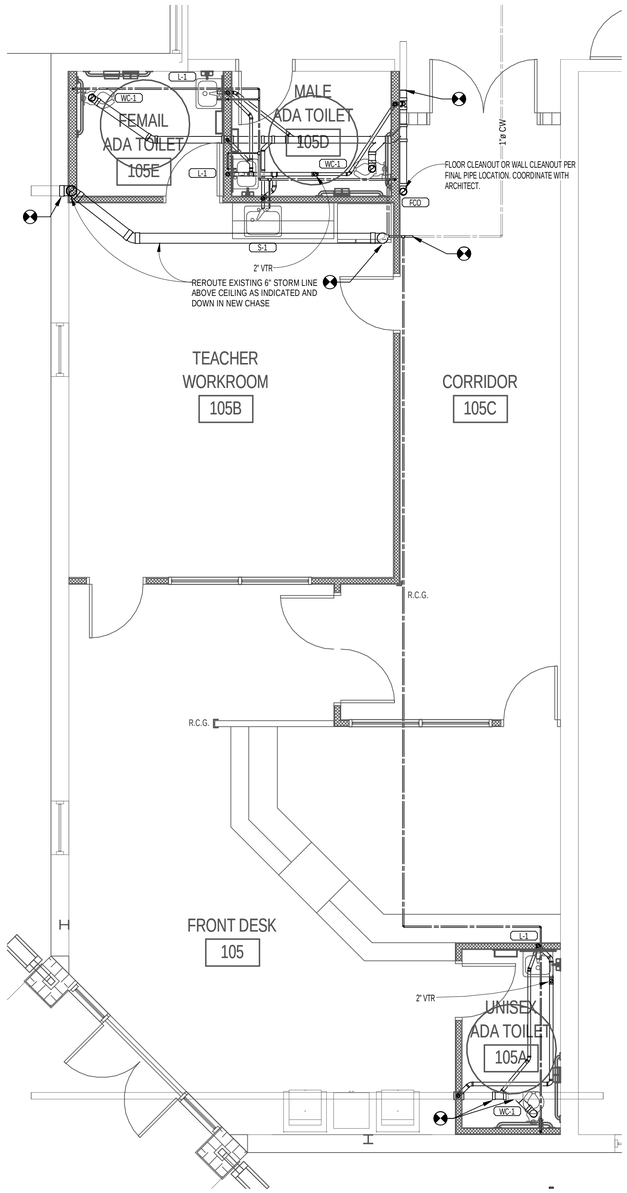
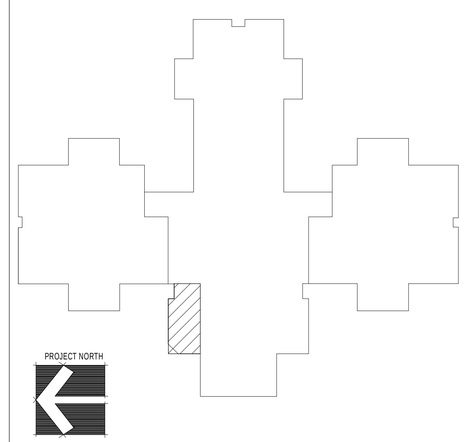


2 NEW ENTRANCE PLUMBING DEMOLITION PLAN
1/4" = 1'-0"



1 NEW ENTRANCE PLUMBING PLAN
1/4" = 1'-0"

KEY PLAN



REVISIONS AND UPDATES

02/14/14		CONSTRUCTION DOCUMENTS FOR BID/PERMIT

SUWANNEE COUNTY SCHOOL BOARD
SUWANNEE PRIMARY SCHOOL
ADDITIONS AND REMODELING
1625 WALKER AVE., SW LIVE OAK, FLORIDA

PLUMBING ENLARGED PLANS

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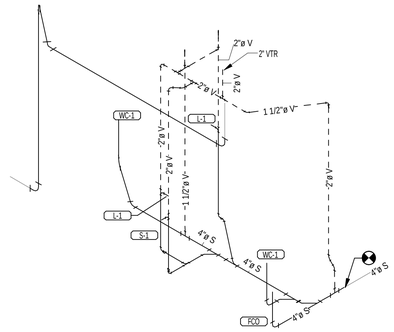
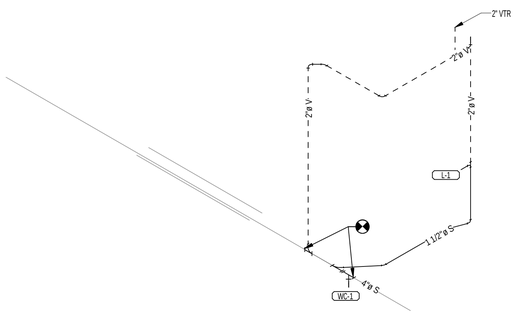
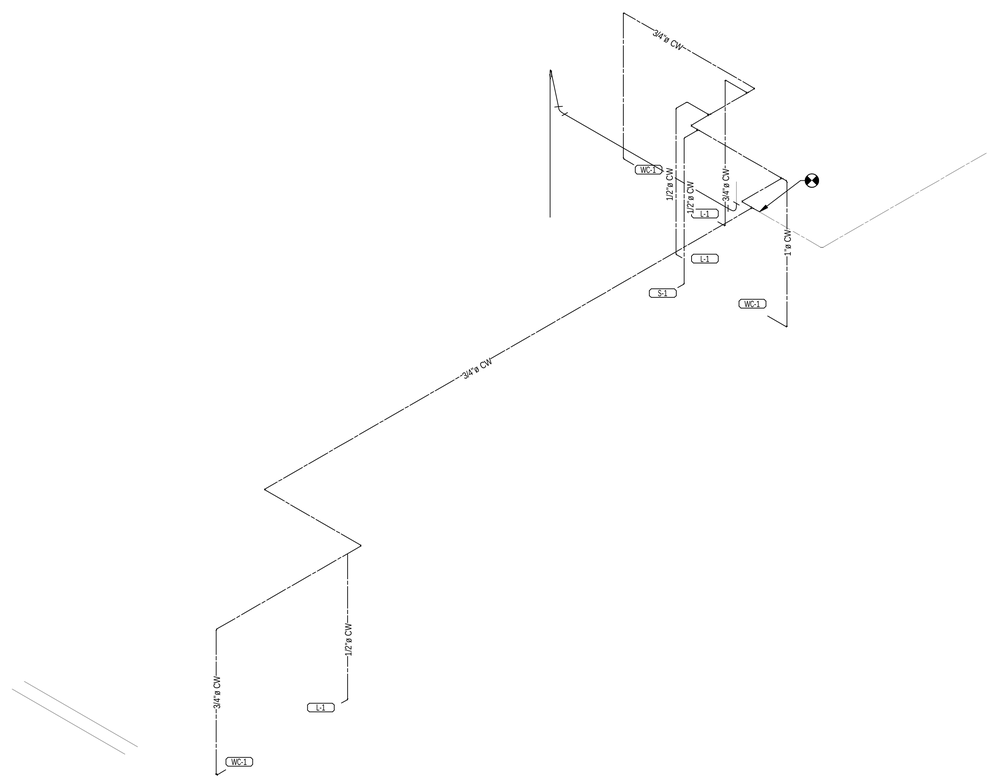




2 SANITARY ISOMETRIC



1 PRESSURE ISOMETRIC

REVISIONS AND UPDATES		
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ADDITIONS AND REMODELING
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PLUMBING ISOMETRIC PLANS

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HVAC SYMBOL LEGEND

SYMBOL	DESCRIPTION
	-EXHAUST DUCT UP THROUGH SLAB W/FAN ON ROOF ABOVE
	-EXHAUST FAN ON ROOF W/DUCT DOWN THROUGH ROOF
	-OUTSIDE AIR OR SUPPLY AIR DUCT UP THROUGH SLAB W/FAN ON ROOF ABOVE
	-OUTSIDE AIR OR SUPPLY FAN ON ROOF W/DUCT DOWN ON ROOF ABOVE
	-CEILING DIFFUSER, FLEX TO ROUND NECK (CEILING DIFFUSERS ARE 4-WAY THROW UNO)
	-CEILING RETURN
	-CEILING EXHAUST
	-CEILING DIFFUSER, RECTANGULAR OR SQUARE NECK (CEILING DIFFUSERS ARE 4-WAY THROW UNO)
	-SUPPLY REGISTER OR GRILLE (VERTICAL MOUNT, SIDEWALL)
	-RETURN/EXHAUST REGISTER OR GRILLE (VERTICAL MOUNT, SIDEWALL)
1	-REVISION REFERENCE
1 M-1	-DETAIL REFERENCE: TOP - DETAIL#; BOTTOM - DRAWING# SHOWN ON
T	-THERMOSTAT/TEMPERATURE SENSOR
H	-HUMIDISTAT/HUMIDITY SENSOR
	-DUCT SMOKE DETECTOR
	-CONNECT TO EXISTING
	-DEMOLISH TO POINT INDICATED
M	-MOTORIZED CONTROL DAMPER
TS	-TEMPERATURE SENSOR
PS	-PRESSURE SENSOR
BD	-BACKDRAFT DAMPER
1	-SHEET NOTE CALLOUT
	-CEILING MOUNTED ACCESS DOOR

SYMBOL	DESCRIPTION
M	-MOTOR OPERATED CONTROL DAMPER (MOD)
FM	-AIR FLOW MEASURING STATION
	-MANUAL BALANCING DAMPER
DG	-DOOR GRILLE
	-UNDERCUT DOOR
	-ACCESS DOORS, VERTICAL OR HORIZONTAL
	-STAINLESS STEEL DUCTWORK
	-FLEXIBLE CONNECTION
24x12	-NEW DUCTWORK, FIRST DIMENSION IS SIDE SHOWN
24x12-EX	-EXISTING DUCTWORK TO REMAIN
24x12	-EXISTING DUCTWORK TO BE REMOVED
DOWN / UP TO ABOVE	-DUCT ELBOW, POSITIVE PRESSURE (SUPPLY)
	-DUCT ELBOW, EXHAUST
	-DUCT ELBOW, NEGATIVE PRESSURE, RETURN
	-RECTANGULAR DUCT SECTION UP, POSITIVE PRESSURE, SUPPLY OR OUTSIDE AIR
	-RECTANGULAR DUCT SECTION UP, NEGATIVE PRESSURE, RETURN
	-RECTANGULAR DUCT SECTION UP, EXHAUST
	-ROUND DUCT SECTION UP

SYMBOL	DESCRIPTION
	-TERMINAL UNIT, VARIABLE/CONSTANT AIR VOLUME
	-TERMINAL UNIT, VARIABLE/CONSTANT AIR VOLUME WITH ELECTRIC HEAT
	-TERMINAL UNIT, VARIABLE/CONSTANT AIR VOLUME, FAN POWERED
	-TERMINAL UNIT, VARIABLE/CONSTANT AIR VOLUME, FAN POWERED, WITH ELECTRIC HEAT
	-ELECTRIC DUCT HEATER (W/PANEL CLEARANCE)
	-HYDRONIC REHEAT COIL
	-INLINE CENTRIFUGAL FAN
	-PACKAGED TERMINAL AIR CONDITIONER (PTAC)
UP / DN	-CHANGE OF ELEVATION
	-FLEXIBLE DUCT
	-TRANSITION, CONCENTRIC
	-TRANSITION, ECCENTRIC
10x8 / 8Ø	-TRANSITION, SQUARE TO ROUND
	-SQUARE THROAT ELBOW W/TURNING VANES
	-RADIUS ELBOW
	-RECTANGULAR/ROUND BRANCH TAKE-OFF OR ROUND/ROUND BRANCH TAKE-OFF
	-SQUARE THROAT TEE
12x8	-RADIUS TEE
	-RECTANGLE-TO-ROUND TAKE-OFF
	-STANDARD BRANCH TAKE-OFF
	-SPIN-IN TAKE-OFF

HVAC ABBREVIATIONS

SYMBOL	DESCRIPTION
AFD	-ADJUSTABLE FREQUENCY DRIVE
AFF	-ABOVE FINISHED FLOOR
AFR	-ABOVE FINISHED ROOF
AHU	-AIR HANDLING UNIT
AP	-ACCESS PANEL
BOP	-BOTTOM OF PIPE
BHP	-BRAKE HORSEPOWER
BTU	-BRITISH THERMAL UNIT
℄	-CENTER LINE
CD	-CEILING DIFFUSER
CT	-COOLING TOWER
CV	-CONSTANT AIR VOLUME
CFM	-CUBIC FEET PER MINUTE
CU	-CONDENSING UNIT
DDC	-DIRECT DIGITAL CONTROLS
DN	-DOWN
EAT	-ENTERING AIR TEMPERATURE
ESP	-EXTERNAL STATIC PRESSURE
EWT	-ENTERING WATER TEMPERATURE
FCU	-FAN COIL UNIT
FD	-FIRE DAMPER
FF	-FINAL FILTERS
FLA	-FULL LOAD AMPS
FPM	-FEET PER MINUTE
GPM	-GALLONS PER MINUTE
KW	-KILOWATT
LAT	-LEAVING AIR TEMPERATURE
LWT	-LEAVING WATER TEMPERATURE
LD	-LINEAR DIFFUSER
MBH	-THOUSAND BTUs PER HOUR

SYMBOL	DESCRIPTION
MCA	-MINIMUM CIRCUIT AMPS
MOCP	-MAXIMUM OVER CURRENT PROTECTION
MOD	-MOTOR OPERATED CONTROL DAMPER (MOD)
NC	-NORMALLY CLOSED
NO	-NORMALLY OPEN
NTS	-NOT TO SCALE
OA	-OUTSIDE AIR
OAL	-OUTSIDE AIR LOUVER
PRV	-PRESSURE REDUCING VALVE
PRS	-PRESSURE REDUCING STATION
PSI	-POUNDS PER SQUARE INCH
PSIG	-PSI GAUGE
PTAC	-PACKAGED TERMINAL AIR CONDITIONER
PVC	-POLYVINYL CHLORIDE PIPE
RA	-RETURN AIR
RHC	-REHEAT COIL
RHP	-ROOFTOP HEAT PUMP
RPM	-REVOLUTIONS PER MINUTE
RS/L	-REFRIGERANT SUCTION & LIQUID LINES
RTU	-ROOFTOP AIR HANDLING UNIT
SA	-SUPPLY AIR
SP	-STATIC PRESSURE
TSP	-TOTAL STATIC PRESSURE
UNO	-UNLESS NOTED OTHERWISE
V/PH	-VOLTS/PHASE
VAV	-VARIABLE AIR VOLUME
VFD	-VARIABLE FREQUENCY DRIVE
△ P	-CHANGE IN PRESSURE
△ T	-CHANGE IN TEMPERATURE

HVAC EQUIPMENT TAGS

TAG: A 200 CFM — -AIR DISTRIBUTION DEVICE

AHU NUMBER: AHU-1 — -AIR HANDLING UNIT

VARIABLE/CONSTANT AIR VOLUME TERMINAL UNITS

TERMINAL UNIT TYPE
VTU - VARIABLE TERMINAL UNIT
CTU - CONSTANT TERMINAL UNIT
PTU - PARALLEL TERMINAL UNIT
STU - SERIES TERMINAL UNIT

VTU-01 — TERMINAL NUMBER

GENERAL NOTES

1. CONNECTION TO EQUIPMENT SHALL BE VERIFIED WITH MANUFACTURER'S CERTIFIED DRAWINGS. TRANSITIONS TO ALL EQUIPMENT SHALL BE VERIFIED AND PROVIDED FOR EQUIPMENT FURNISHED.
2. DIMENSIONS SHALL BE FIELD-VERIFIED AND COORDINATED PRIOR TO PROCUREMENT OR FABRICATION. COORDINATE THE WORK WITH OTHER TRADES INVOLVED. FIELD MODIFICATIONS SUCH AS OFFSETS IN PIPING OR DUCTWORK (INCLUDING DIVIDED DUCTWORK) NEEDED DUE TO OBSTRUCTIONS OR INTERFERENCES SHALL BE PROVIDED AT NO ADDITIONAL COST. FOR PROJECTS INVOLVING RENOVATION, COORDINATE NEW WORK WITH EXISTING ELEMENTS SUCH AS THE BUILDING STRUCTURE AND ARCHITECTURAL FEATURES, SPRINKLER PIPING, LIGHTS, PLUMBING, AND ELECTRICAL CONDUIT.
3. DUCT CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE SMACNA HVAC DUCT CONSTRUCTION STANDARD.
4. SEE SPECIFICATIONS FOR GAUGES, THICKNESS, BRACING, REQUIREMENTS, ETC., OF DUCTWORK.
5. PROVIDE AIR TURNING VANES IN ALL 90 DEGREE RECTANGULAR DUCT ELBOWS.
6. DUCT SIZES AND ALL OPENINGS THROUGH BUILDING CONSTRUCTION SHALL SUIT EQUIPMENT FURNISHED.
7. COORDINATE DIFFUSER, GRILLE AND REGISTER LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND EQUIPMENT OF ALL TRADES.
8. LOCATE THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS, AND HUMIDITY SENSORS AT 48" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE. COORDINATE LOCATIONS WITH OTHER EQUIPMENT, FURNITURE, AND DOOR SWINGS.
9. ALL EQUIPMENT, DUCTWORK, ETC., SHALL BE SUPPORTED AS DETAILED AND/OR SPECIFIED. PROVIDE ADDITIONAL SUPPORTS AS REQUIRED TO PROVIDE A VIBRATION-FREE, RIGID INSTALLATION.
10. ALL DUCT SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS.
11. DAMPERS AND INSIDES OF DUCTS VISIBLE THROUGH GRILLES, REGISTERS AND DIFFUSERS SHALL BE PAINTED FLAT BLACK.
12. REFER TO TYPICAL DETAILS FOR PIPING AND INSTALLATION OF EQUIPMENT.
13. TRAPPED CONDENSATE DRAINS FROM ALL MECHANICAL EQUIPMENT SHALL BE PROVIDED FOR PROPER DRAINAGE TO SUIT EQUIPMENT FURNISHED.
14. ACCESS PANELS IN DUCTWORK AND CEILINGS SHALL BE PROVIDED WHERE REQUIRED FOR OPERATION, BALANCING OR MAINTENANCE OF ALL MECHANICAL EQUIPMENT.
15. ALL DUCTWORK AND PIPING IS SHOWN SCHEMATICALLY. PROVIDE ALL TRANSITIONS, TURNING VANES, ELBOWS, FITTINGS, ETC., TO ALLOW SMOOTH FLOWS. ALL SPLIT DUCT FITTINGS SHALL TRANSITION TO FULL SIZE OF THE SUM OF BOTH BRANCHES, UPSTREAM OF SPLIT.
16. PROVIDE CONCRETE PAD UNDER ALL GRADE-MOUNTED EQUIPMENT. REFER TO SPECIFICATIONS FOR DETAILED REQUIREMENTS.
17. VERIFY FINISH WITH ARCHITECT PRIOR TO PURCHASING GRILLES, REGISTERS, DIFFUSERS, LOUVERS AND OTHER AIR DISTRIBUTION DEVICES.
18. PROVIDE FLEXIBLE DUCT CONNECTIONS ON ALL DUCTWORK CONNECTING TO EACH FAN, AIR HANDLING UNITS, AND FAN COIL UNITS.
19. PROVIDE TRANSITIONS AT DIFFUSER NECKS AS REQUIRED TO MATCH SIZES OF FLEX DUCTS TO BE CONNECTED.
20. INTERRUPTIONS TO EXISTING SERVICES SHALL BE SCHEDULED FOR TIMES OTHER THAN NORMAL OPERATING HOURS (SUCH AS NIGHTS AND WEEKENDS). SUCH INTERRUPTIONS TO SERVICES SHALL NOT BE MADE WITHOUT THE PRIOR WRITTEN CONSENT OF THE OWNER'S REPRESENTATIVE AND PROPER COORDINATION WITH OTHER TRADES. PRE-WORK SHALL BE PERFORMED TO MAKE THE SHUTDOWN PERIOD AS BRIEF AS POSSIBLE.
21. ALL EQUIPMENT, DUCTWORK, ETC., TO BE REMOVED SHALL REMAIN PROPERTY OF THE OWNER OR DISPOSED OF LEGALLY, AS DIRECTED BY OWNER.
22. MAINTAIN CLEARANCE OF A MINIMUM OF 6" BETWEEN DUCTWORK, PIPING, EQUIPMENT, ETC., AND ALL FIRE RATED AND FIRE/SMOKE RATED PARTITIONS, TO ALLOW FOR INSPECTIONS OF RATED WALLS.
23. LOCATE ALL OUTSIDE AIR INTAKES A MINIMUM OF 10'-0" CLEAR FROM ALL PLUMBING VENTS AND EXHAUST AIR DISCHARGE LOCATIONS. LOWEST POINT OF EACH OUTSIDE AIR INTAKE ON ROOF SHALL BE A MINIMUM OF 24" ABOVE ROOF.
24. DUCT RUNOUTS TO DIFFUSERS SHALL MATCH THE SIZE OF THE DIFFUSER NECK.
25. WATER PRESSURE DROPS THROUGH COIL CONTROL VALVES SHALL NOT EXCEED 5 PSI.
26. UNLESS OTHERWISE NOTED, ALL EQUIPMENT AND VALVE DRAINS SHALL BE INDEPENDENTLY PIPED FULL SIZE TO THE NEAREST PLUMBING DRAIN.
27. SLEEVE AND SEAL ALL PIPING PENETRATIONS THROUGH BUILDING PARTITIONS. PROVIDE MANUAL AIR VENTS AT ALL HIGH POINTS IN CHILLED WATER AND HOT WATER PIPING.

REVISIONS AND UPDATES

02/14/14		CONSTRUCTION DOCUMENTS FOR BID/PERMIT

SUWANNEE COUNTY SCHOOL BOARD
SUWANNEE PRIMARY SCHOOL
ADDITIONS AND REMODELING
1625 WALKER AVE., SW LIVE OAK, FLORIDA

MECHANICAL LEGENDS, ABBR'S, AND NOTES

drawn TMM | checked JPM | approved JPM

job no. 2012.51

M-0.1

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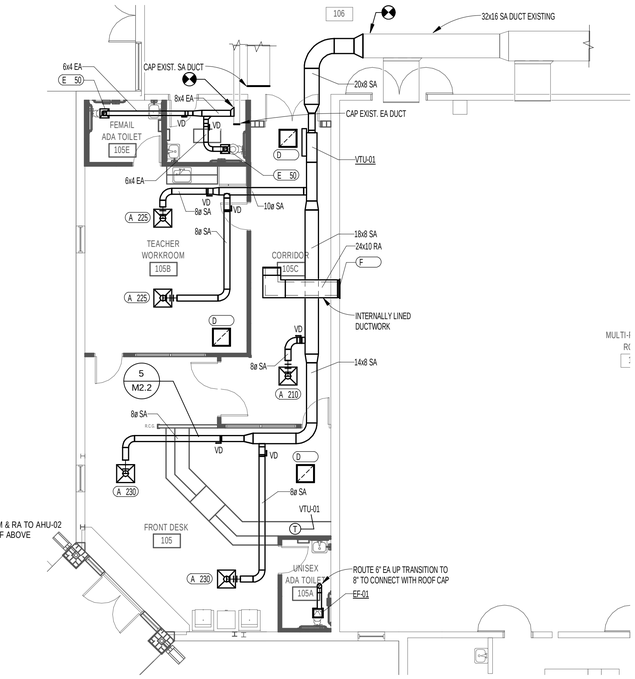
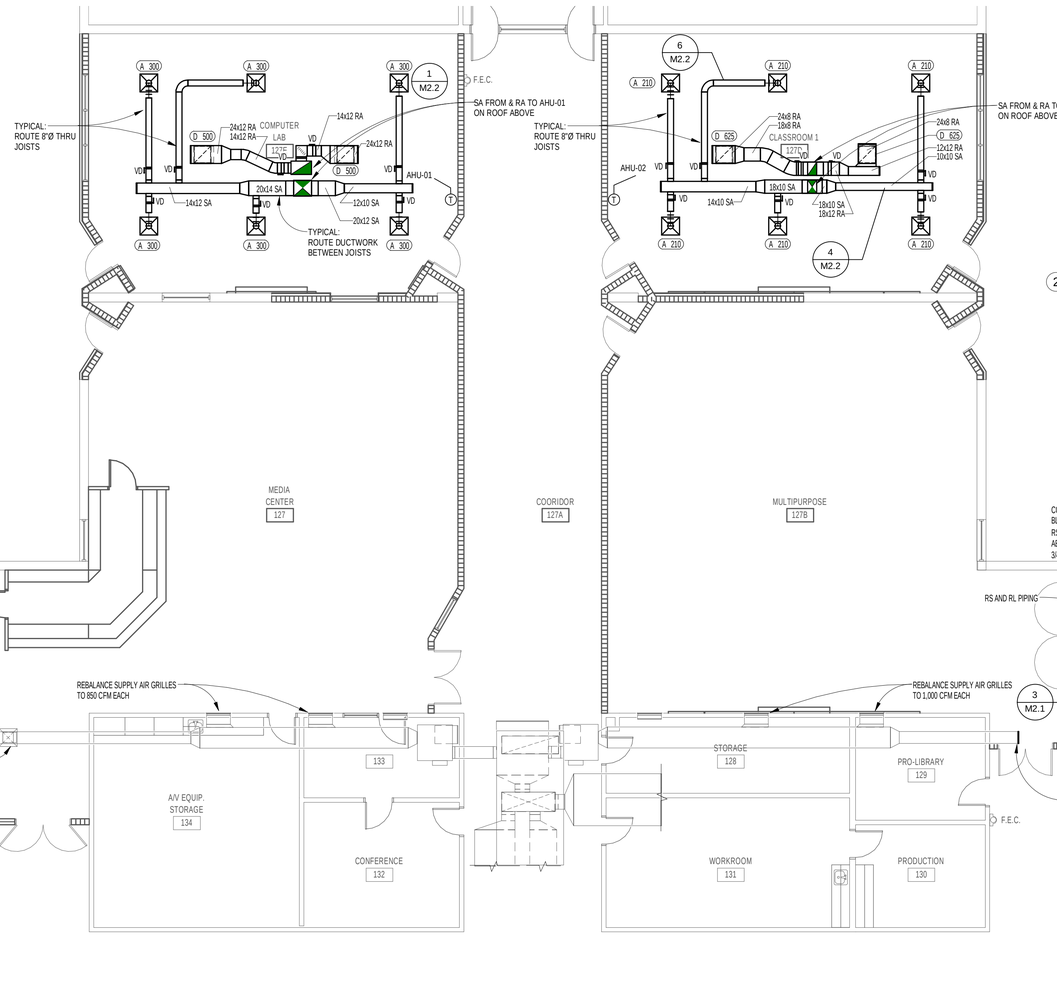
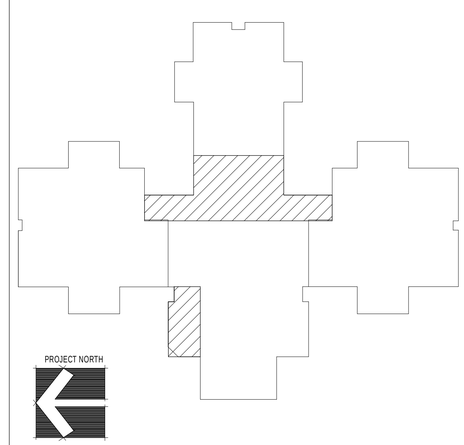


2 NEW ENTRANCE MECHANICAL PLAN (ADD ALTERNATE)
1/8" = 1'-0"



1 MECHANICAL PLAN
1/8" = 1'-0"

KEY PLAN



REVISIONS AND UPDATES

02/14/14	CONSTRUCTION DOCUMENTS FOR BID/PERMIT

SUWANNEE COUNTY SCHOOL BOARD
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ADDITIONS AND REMODELING
1625 WALKER AVE., SW LIVE OAK, FLORIDA

MECHANICAL FLOOR PLAN

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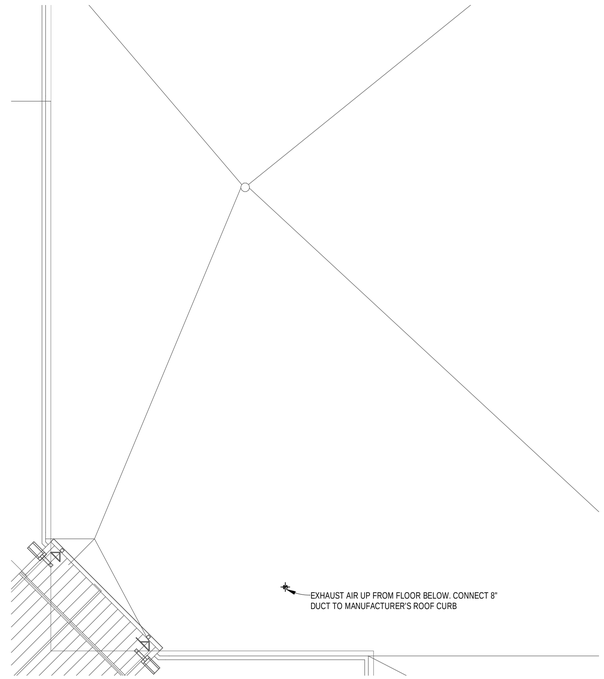
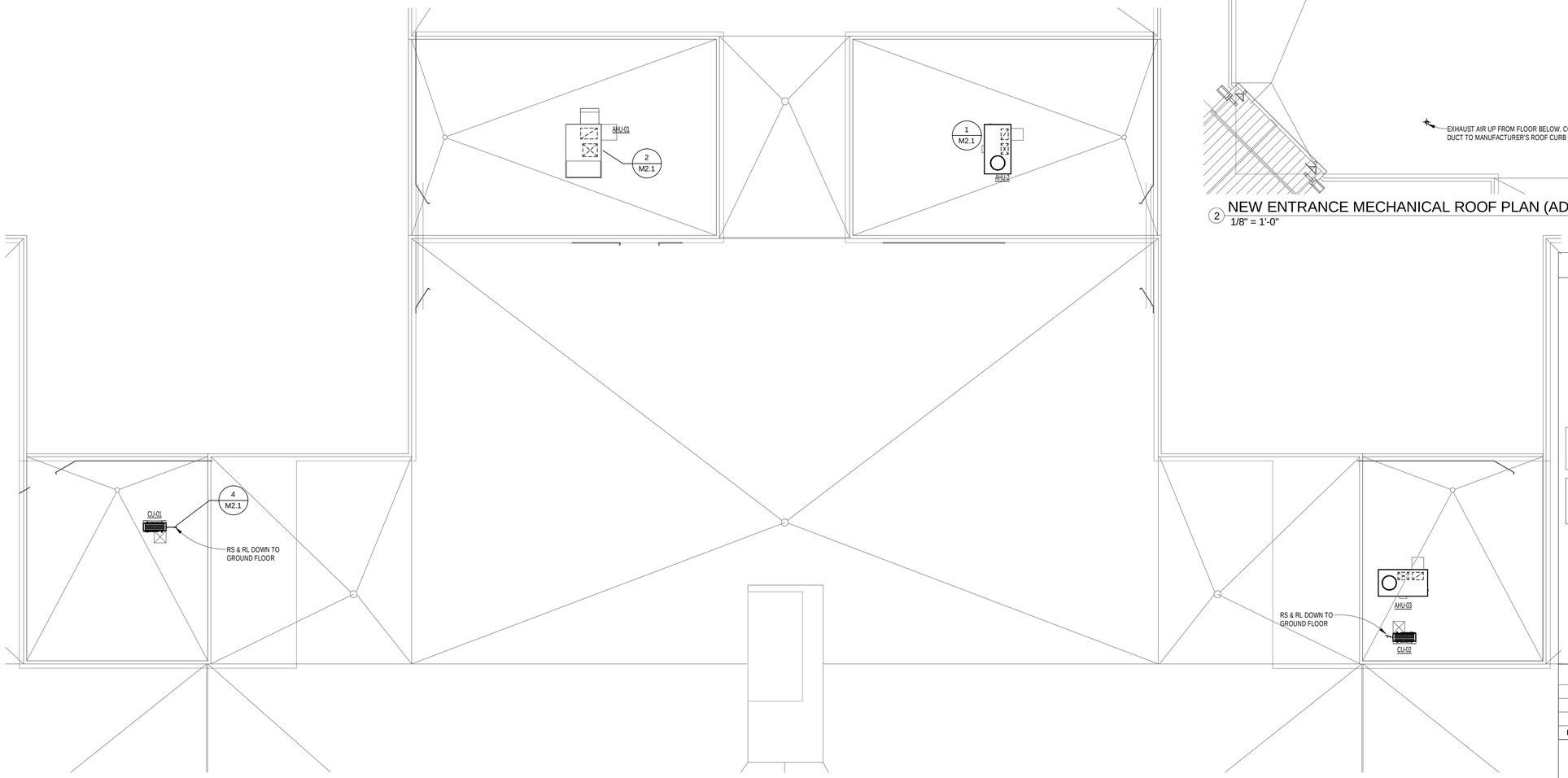
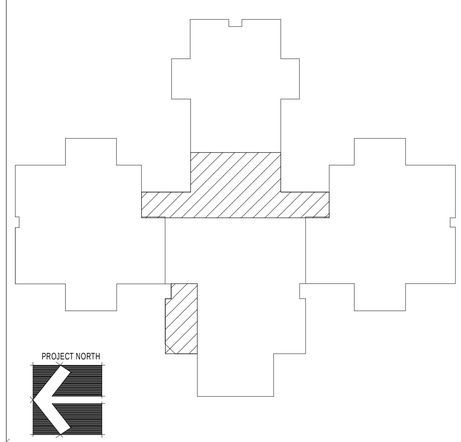


2 NEW ENTRANCE MECHANICAL ROOF PLAN (ADD ALTERNATE)
1/8" = 1'-0"



1 MECHANICAL ROOF PLAN
1/8" = 1'-0"

KEY PLAN



REVISIONS AND UPDATES

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MECHANICAL ROOF PLAN

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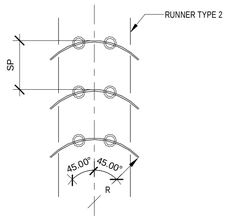
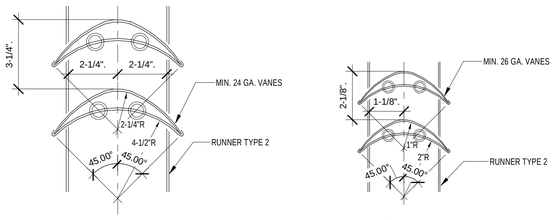
SINGLE VANE SCHEDULE			
	R (RADIUS)	SP	GAUGE
SMALL	2" (51 mm)	1-1/2" (38 mm)	24 (0.70 mm)
LARGE	4-1/2" (114 mm)	3-1/4" (83 mm)	22 (0.85 mm)

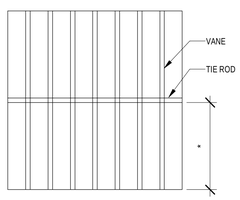


SINGLE VANE



Large Small

DOUBLE VANE



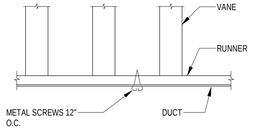
* MAXIMUM UNSUPPORTED VANE LENGTH

SMALL SINGLE VANB6"
LARGE SINGLE VANB6"
SMALL DOUBLE VANE 48"
LARGE DOUBLE VANE 72"

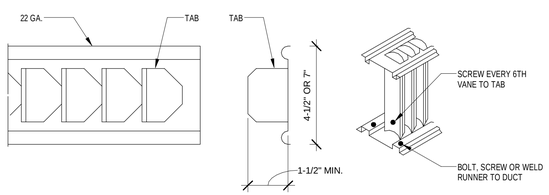
NOTE:
INSTALL VANES IN SECTIONS OR USE TIE RODS TO LIMIT THE UNBRACED VANE LENGTH

NOTES:

1. VANES SHALL BE SECURELY FASTENED TO RUNNERS
2. ALL VANES SHALL BE SECURE AND STABLE IN INSTALLED OPERATING POSITION.



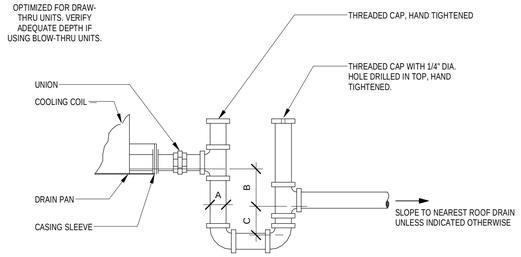
VANE SUPPORT



RUNNER TYPE 1

NOTE:
SEE MECHANICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.

6 TURNING VANES
NTS

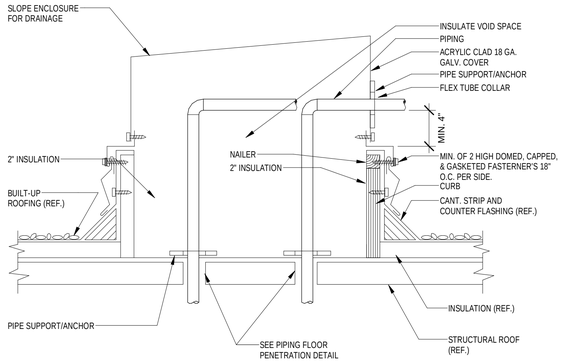


CONDENSATE DRAIN PIPING DIMENSIONS:

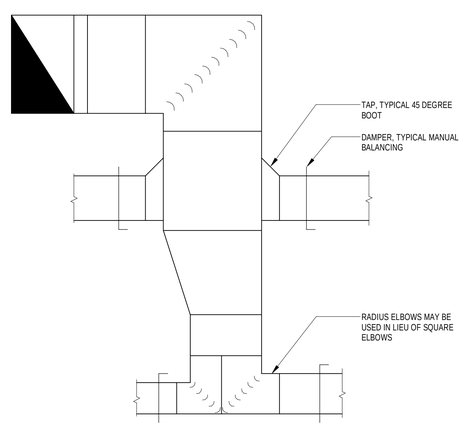
A = FULL SIZE OF UNIT DRAIN CONNECTION
B > 1-1/2" TIMES FAN SUCTION STATIC PRESSURE
C > FAN DISCHARGE STATIC PRESSURE PLUS 1/2" INCH

COORDINATE MOUNTING/CURB HEIGHT AS REQUIRED TO PROVIDE PROPER CONDENSATE DRAINAGE.

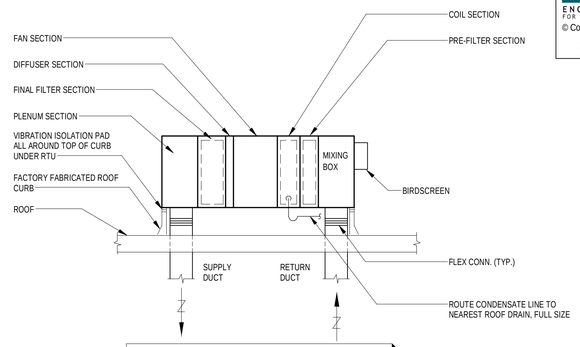
3 AHU CONDENSATE DRAIN TRAP
NTS



4 ROOF PIPING PENETRATION DETAIL
N.T.S.

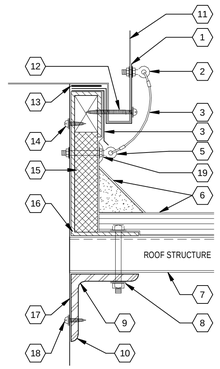


5 TYPICAL PRESSURE DUCTWORK
NTS



NOTE: ALL ROOF MOUNTED EQUIPMENT MUST ADHERE TO CURRENT HURRICANE CODES REGARDING ROOF TIE-IN AND WIND RESISTANCE.

1 ROOFTOP UNIT
NTS



1. 2"W x 16 GA. G90 GALV. STEEL ANCHOR STRAP, AT EACH EYEBOLT
2. 2" GALV. STEEL PLAIN 3/4" EYEBOLT ASTM A489 RATED, W/ WASHER ON BOTH SIDES AND NUT. (TYP-2) THIS ASSEMBLY TO BE ON EACH SIDE OF EQUIPMENT AND CURB. BOLT TO BE MOUNTED PER MANUF. RECOMMENDATIONS.
3. 3/8" BRAIDED GALV. STRAP W/ PLASTIC COATING. INSTALL WITH A MINIMUM OF 6" SWAG
4. FLASHING
5. 3/4" EYEBOLT TO BE A MINIMUM OF 4" ABOVE ROOFING CANT. SEAL AROUND EYEBOLT WITH ALSAN FLASHING AND FABRIC (COVERING FENDER AND NEOPRENE WASHER). BOLT TO BE FACTORY INSTALLED AND SHIP WITH CURB.
6. RIGID INSULATION & CANT. STRIP BY G.C.C.
7. 10" x 10" x 1/4" STEEL PLATE
8. 1/2"DIA. BOLTS, NUTS & WASHERS, 24" O.C., MIN. (3) PER UNIT SIDE
9. ROOFTOP EQUIPMENT FRAMING
10. EXTEND CURB SLEEVE DOWN 6" BELOW ROOF STRUCTURAL SUPPORTS
11. ROOF-MOUNTED EQUIPMENT
12. #12-TEK SCREW THRU STRAP INTO EQUIPMENT BASE RAIL AT 6" O.C.
13. GASKET
14. #12-TEK SCREW THRU SLEEVE INTO WOOD NAILER 6" O.C.
15. PREFAB, INSULATED ROOF CURB
16. INSTALL SHIMS AS REQUIRED BELOW CURB TO LEVEL ROOFTOP EQUIPMENT
17. 14 GA. CURB SLEEVE EXTEND 10" BELOW ROOF STRUCTURE. SLEEVE AND CURB TO BE ONE PIECE CONSTRUCTION.
18. #12-TEK SCREW THRU SLEEVE INTO STRUCTURAL FRAMING 6" O.C.
19. EYEBOLT TO BE MINIMUM OF 1" OFF OF CURB FACE FOR SEALING.

NOTES:

EQUIPMENT SHALL BE ANCHORED TO WITHSTAND MAX. WIND LOAD REQUIRED BY CODE. EIGHT TOTAL TIE DOWNS SHALL BE REQUIRED, TWO ON EACH CORNER OF THE FAN AND CURB. ALL HARDWARE TO BE HOT DIP GALVANIZED. THIS DETAIL APPLIES TO ALL ROOF MOUNTED EQUIPMENT.

2 ROOF CURB ANCHORING & EQUIPMENT TIE-DOWN
N.T.S.

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SUWANNEE COUNTY SCHOOL BOARD
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MECHANICAL DETAILS

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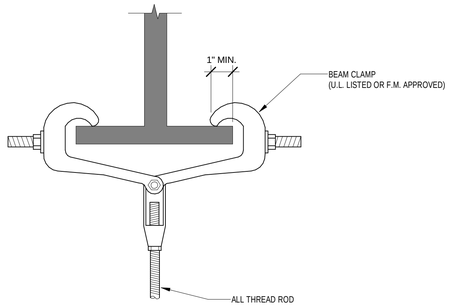
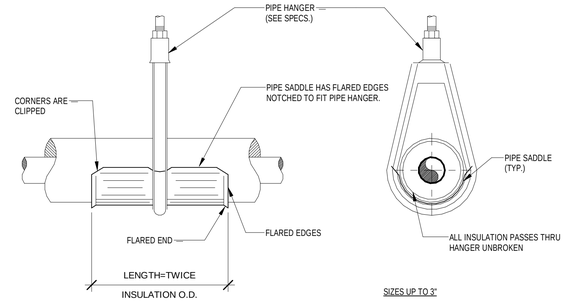
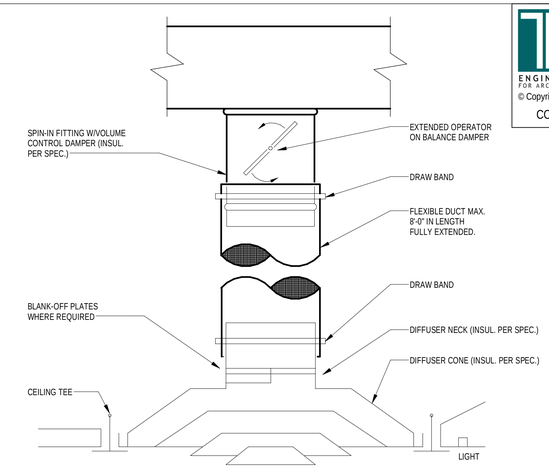


6 STEEL BEAM CLAMP WITH EYE NUT DETAIL
1" = 1'-0"

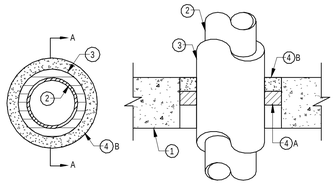


3 INSULATED PIPE HANGER DETAIL
N.T.S.



1 DIFFUSER MOUNTING
N.T.S.

System No. C-AJ-5001
(Formerly System No. 91)
F Rating - 1-1/2, 2 and 3 Hr. (See Item 4)
T Rating - 0, 1/2, 3/4 and 1 Hr. (See Item 1a and 4)
L Rating At Ambient - 2 CFM/sq.ft.
L Rating At 400°F - less than 1 CFM/sq.ft.



SECTION A-A

1. Floor or Wall assembly - Min. 2- 1/2" thick reinforced lightweight or normal weight (100-150) pcf concrete. Wall may also be constructed of any UL Classifed Concrete Blocks*. Max. diameter of opening is 18". See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufatureres.

1A. Steel Sleeve - Optional, not shown) - Nom. 10" (or smaller) Schedule 10 (or heavier) steel sleeve cast or grouted into floor or wall assembly. Sleeve may extend a max. of 2" above top of floor or beyond either surface of wall. T Rating is 0 Hr. when sleeve is used.

2. Through Penetrants - Nom. 4" dia. (or smaller) type L (or heavier) copper pipe, nom. 12" dia. (or smaller) service weight (or heavier) cast iron soil pipe, nom. 12" dia. (or smaller) class 50 (or heavier) ductile iron pressure pipe or nom. 12" dia. (or smaller) Schedule 10 (or heavier) steel pipe centered in the opening and rigidly supported on both sides of the floor or wall assembly.

3. Pipe-Covering* - Nom. 1/2 to 2" thick hollow cylindrical heavy density (min. 3.5 pcf) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt strip tape supplied with the product.
See pipe and equipment covering - Materials*(BRGU) category in Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification working with a Flame Spread index of 25 or less and a Smoke Developed Index of 50 or less must be used.

4. Firestop System - The details of the firestop system shall be as follows:

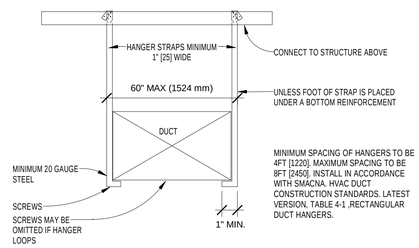
A. Packing Material - Nom. 1" thickness of firmly packed mineral wool batt insualation used as a permanenet form. packing material to be recessed from top surface of floor or above or from both surfaces of as required to acommodate the required thickness of caulk. fill material (item b).

B. Fill, Void or Cavity Material* - Caulk - Applied to fill the annular space flush with top surface of floor or sleeve or fluch with both surfaces of wall. When nom. pipe covering thickness is 2", min. thickness of caulk fill material is 2". When nom. pipe covering thickness is 1-1/2" or less, min. thickness of caulk fill material is 1". The hourly F and T Ratings of the firestop system are dependent upon the thickness of the floor or wall, the size of pipe, the thickness of pipe covering material and the size of the annular space (between the pipe covering material and the edge of the circular through opening), as shown in the following table:

Min. Floor Or Wall Thickness, In.	Max. Pipe Dia.	Nom. Pipe Covering Thickness, In.	Annular Space, In.	F Rating, Hr.	T Rating, Hr.
2-1/2	4	1 OR 1-1/2	1/2 TO 2-3/8	2	1
4-1/2	4	2	1/4 TO 3-5/8	2	1-1/2
2-1/2	12	1	1/2 TO 1-1/2	2	1/2
4-1/2	12	1	1/2 TO 2-3/8	3	1
2-1/2	12	1/2	1/2 TO 2-3/8	2	0

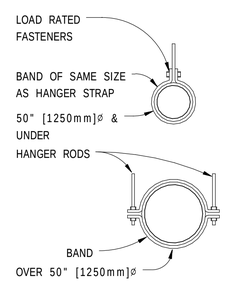
Minnesota Mining and Manufacturing Co. - Cp 25WB+.
*Bearing the UL Classification Marking

7 PIPE THROUGH CONCRETE WALL DETAIL
12" = 1'-0"



MINIMUM SPACING OF HANGERS TO BE 4FT [1220]. MAXIMUM SPACING TO BE 8FT [2450]. INSTALL IN ACCORDANCE WITH SMACNA. HVAC DUCT CONSTRUCTION STANDARDS. LATEST VERSION, TABLE 4-1 ,RECTANGULAR DUCT HANGERS.

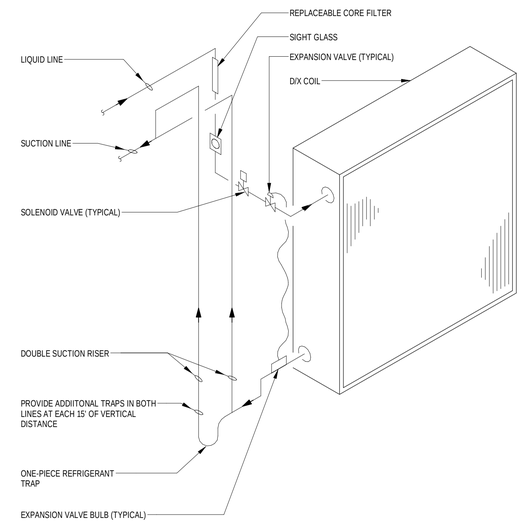
4 DUCT SUPPORT DETAIL
N.T.S.



NOTE:
TABULATED DATA FROM SMACNA ALLOWS FOR DUCT REINFORCING AND INSULATION, BUT NO EXTERNAL LOAD.

HANGER STRAPS OR RODS			
MAX. DUCT ø IN. [mm]	QUANTITY / SIZE IN. [mm]	MAX. LOAD LBS. [kg]	MAX. SPACING IN. [mm]
26 [650]	ONE 1 [25] x 22 GA STRAP	260 [119]	144 [3600]
36 [900]	ONE 1 [25] x 18 GA STRAP	420 [190]	144 [3600]
50 [1250]	ONE 1 [25] x 16 GA STRAP	700 [317]	144 [3600]
60 [1500]	TWO 3/8 [10]ø. RODS	1320 [598]	144 [3600]
84 [2100]	TWO 1/2 [13]ø RODS	2500 [1133]	144 [3600]

5 ROUND DUCT HANGERS DETAIL
1/2" = 1'-0"



2 D/X COIL DOUBLE-SUCTION PIPING DIAGRAM
N.T.S.

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SUWANNEE COUNTY SCHOOL BOARD
SUWANNEE PRIMARY SCHOOL
ADDITIONS AND REMODELING
1625 WALKER AVE., SW LIVE OAK, FLORIDA

MECHANICAL DETAILS

drawn Author | checked JPM | approved JPM

Justin Mulhollan, P.E.
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Seal

AA-C001560

job no. 2012.51

M-2.2

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COA #15 TLC NO: 513005

PACKAGED AIR CONDITIONER (AIR COOLED)

PLAN MARK	SERVING	SELECTION BASED ON		REFRIGERANT TYPE	MINIMUM EFFICIENCY (EER)	FAN DATA				COOLING COIL DATA					HEAT	AMBIENT TEMP °F	UNIT ELECTRIC DATA				REMARKS
		MANUFACTURER	MODEL			CFM		E.S.P.	H.P.	CAPACITY	EAT° F		LAT °F		KW / STEPS	DB	VOLT	PH	MCA	MOCP	
						S.A.	O.A.			MBH	DB	WB	DB	WB							
AHU-1	127E COMPUTER LAB	YORK	J062FE18AAAA6	R-410A	11.2	1,800	320	0.5	1.5	71.6	79.1	66.7	52.5	50.9	18/3	95	480	3	30.8	35	
AHU-2	127D CLASSROOM 1	YORK	J052FE10N4AAA2	R-410A	13.0	1,250	320	0.5	1.5	54.1	81.1	68.2	52.9	51.7	10/3	95	480	3	18.4	20	
AHU-3	121 CLASSROOM 2	YORK	J052FE15N4AAA2	R-410A	13.0	1,520	310	0.5	1.5	54.7	79.3	66.8	53.6	52.7	15/3	95	480	3	23.7	25	

REMARKS:
1. Provide with manufacturer's roof curb min. 14" high.
2. Provide unit with birdscreen, backdraft damper, motor starter and disconnect.
3. Provide with convenience outlet.

VARIABLE AIR VOLUME TERMINAL UNIT SCHEDULE

PLAN MARK	DESIGN CFM	MINIMUM CFM	HEATING KW	UNIT SIZE	NC RATING	MAX. APD (IN WG)
VTU-1	1,120	450	5	10	18	0.25

NOTES:
1. BASIS OF DESIGN: TRANE VCEF.
2. NC RATING IS AT 1" WC STATIC.

AIR TERMINAL SCHEDULE

MARK	MANUFACTURER	MODEL	NECK SIZE	FACE SIZE
A	TITUS	TMS	8ø	24x24
D	TITUS	45F	22x22	24x24
E	TITUS	350FL	6x4	8x6
F	TITUS	350FL	24x10	28x12

DX SPLIT SYSTEM SCHEDULE

PLAN MARK	SELECTION BASED ON			REFRIGERANT TYPE	FAN DATA		COOLING COIL DATA					AHU ELECTRICAL DATA							C U ELECTRICAL DATA					REMARKS
	MANUFACTURER	AHU MODEL	CU MODEL		TOTAL CFM	EXT. ΔP IN H2O	MBH	EAT °F		LAT°F		NO. OF FANS	WATTS	VOLTAGE	PHASE	FLA	MCA	MOCP	VOLTAGE	PHASE	FLA	MCA	MOCP	
								DB	WB	DB	WB													
SS-01 / CU-01	MITSUBISHI	PLA-A24BA	PUY-A24NHA3	R-410A	640	0.1	24	75	63.2	53.0	52.1	1	50	208	1	0.51	1	25	208	1	0.75	18	25	
SS-02 / CU-02	MITSUBISHI	PLA-A24BA	PUY-A24NHA3	R-410A	640	0.1	24	75	63.4	53.0	52.1	1	50	208	1	0.51	1	25	208	1	0.75	18	25	

REMARKS:
1. Size refrigerant piping per manufacturer's recommendation.
2. Provide curb and manufacturer's standard options required to mount condensing unit at grade.
3

EXHAUST FAN SCHEDULE

MARK	MANUFACTURER	MODEL	AREA SERVED	EXHAUST AIRFLOW	FAN TYPE	DRIVE TYPE	VOLTAGE	PHASE	RLA	WATTS	ESP	COMMENTS
EF-01	BROAN	XB80	TOILET 105A	50 CFM	SINGLE SPEED	DIRECT	115 V	1	0.1 A	5.80 W	0.20 in-wg	PROVIDE WITH MANUFACTURER'S ROOFCAP

REVISIONS AND UPDATES

02/14/14		CONSTRUCTION DOCUMENTS FOR BID/PERMIT

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MECHANICAL SCHEDULES

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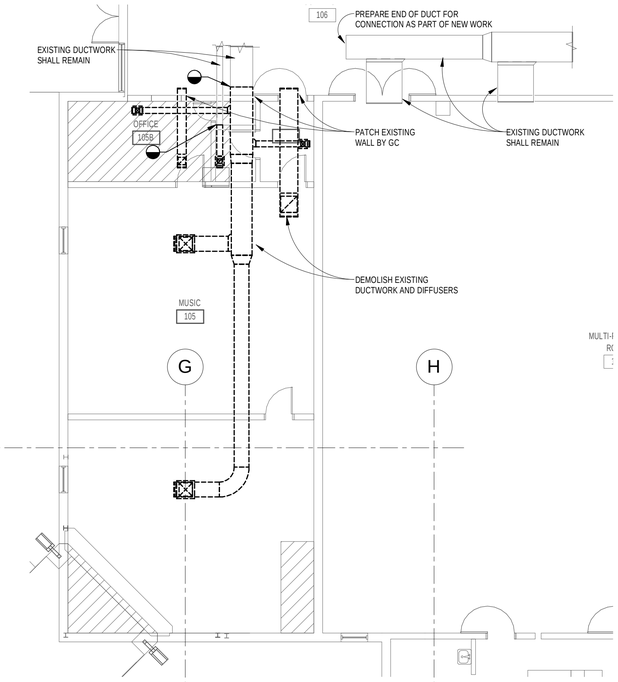
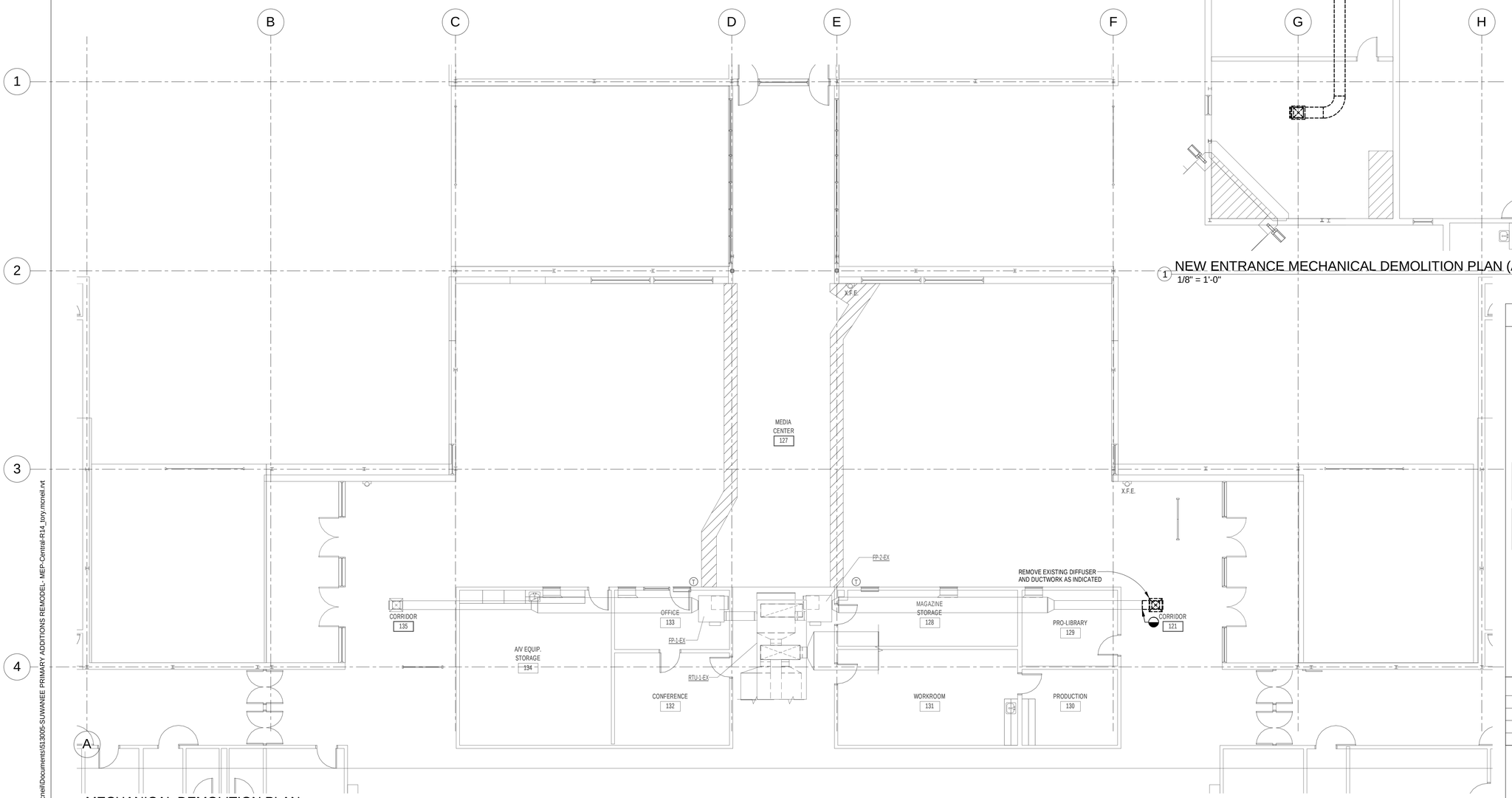
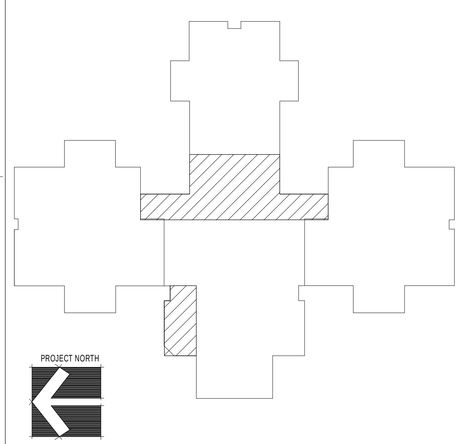


1 NEW ENTRANCE MECHANICAL DEMOLITION PLAN (ADD ALTERNATE)
1/8" = 1'-0"



2 MECHANICAL DEMOLITION PLAN
1/8" = 1'-0"

KEY PLAN



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ELECTRICAL SYMBOL LEGEND

BASIC MATERIALS

SYMBOL	DESCRIPTION
S_a	SINGLE POLE SWITCH (SUBSCRIPT INDICATES ITEM CONTROLLED)
S_3	THREE-WAY SWITCH
S_4	FOUR-WAY SWITCH
S_{WP}	SINGLE POLE SWITCH WITH WEATHERPROOF COVER
S_{WPL}	SINGLE POLE SWITCH WITH WEATHERPROOF LOCKING COVER
S_L	SINGLE POLE SWITCH WITH SECURITY LOCKING KEY
S_{LV}	LOW VOLTAGE SWITCH FOR OVERRIDE ON
S_F	FAN SWITCH
S_M	MANUAL MOTOR STARTER WITH OVERLOAD HEATERS
S_{MP}	MANUAL MOTOR STARTER WITH OVERLOAD HEATERS AND PILOT LIGHT
	DUPLEX RECEPTACLE
	FLOOR OUTLET BOX AND DUPLEX RECEPTACLE WITH APPROPRIATE FLANGE.
	FLOOR OUTLET BOX WITH DUPLEX RECEPTACLE AND ONE COMBINATION W/ VOICE/DATA OUTLET
	FLOOR OUTLET BOX WITH TWO DUPLEX RECEPTACLES AND ONE COMBINATION W/ VOICE/DATA OUTLET
	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER
	DUPLEX RECEPTACLE WITH TOP HALF SWITCHED
WP	GFI RECEPTACLE. WP DENOTES UL LISTED AS WEATHERPROOF IN USE AND UL LISTED WEATHER RESISTANT. MOUNTED AT 48" AFF.
	GFI RECEPTACLE MOUNTED ABOVE COUNTER
	TWO DUPLEX RECEPTACLES WITH COMMON COVER
	TWO DUPLEX RECEPTACLES WITH COMMON COVER MOUNTED ABOVE COUNTER
IG	ISOLATED GROUND DUPLEX RECEPTACLE, (ORANGE DEVICE)
	DUPLEX RECEPTACLE NOTE: TICK MARKS SHOWN ON ANY DEVICE REPRESENTS RECEPTACLE CONNECTED TO THE EMERGENCY CIRCUIT (RED DEVICE) TYPICAL FOR ANY DEVICE IN LEGEND
	SPECIAL PURPOSE RECEPTACLE, RATING AS NOTED
	LIGHTING CONTROL TIME CLOCK
	PHOTOCELL, MOUNTED ON ROOF FACING NORTH
GND	GROUND BAR
J	JUNCTION BOX
J	JUNCTION BOX- WALL MOUNTED
SPD	SURGE PROTECTION DEVICE
ST	SHUNT-TRIP BUTTON - FLUSH MOUNTED UNLESS OTHERWISE NOTED NEMA 3R FOR EXTERIOR LOCATIONS
	MAGNETIC MOTOR STARTER OR CONTACTOR SIZE AS NOTED
5	MOTOR CONNECTION, NUMBER DENOTES HORSEPOWER
VFD	VARIABLE FREQUENCY DRIVE
DDC	DIRECT DIGITAL CONTROL PANEL
T	TRANSFORMER
	AUTOMATIC TRANSFER SWITCH
30AR / NF	NON-FUSED DISCONNECT SWITCH, SIZE AS NOTED NF DENOTES NON-FUSED
30AR / 20AF	FUSED DISCONNECT AR DENOTES AMP RATING OF SWITCH AF DENOTES AMP FUSE SIZE, * DENOTES SIZE PER MANUFACTURER RECOMMENDATIONS.
MCP SIZE, # OF POLES, 30/3, 0, 3R	COMBINATION MAGNETIC MOTOR STARTER, SIZE & # OF POLES 3 POLE UNLESS OTHERWISE NOTED ENCLOSURE NEMA RATING. NEMA STARTER SIZE

BASIC MATERIALS CONT.

SYMBOL	DESCRIPTION
	BRANCH CIRCUIT PANELBOARD, UNDER 250 VOLTS, SURFACE MOUNTED
	BRANCH CIRCUIT PANELBOARD, UNDER 250 VOLTS, FLUSH MOUNTED
	BRANCH CIRCUIT PANELBOARD, OVER 250 VOLTS, SURFACE MOUNTED
	BRANCH CIRCUIT PANELBOARD, OVER 250 VOLTS, FLUSH MOUNTED
	BRANCH CIRCUIT CONDUIT CONCEALED ABOVE CEILING OR IN WALL. CONDUIT SHALL INCLUDE PHASE, NEUTRAL AND GROUND CONDUCTORS AS REQUIRED FOR CIRCUITS (UNLESS OTHERWISE NOTED).
	GROUND ROD 3/4" x 20'
UP	CONDUIT TURNING UP
DN	CONDUIT TURNING DOWN
	CONDUIT STUB
	CONDUIT CONTINUED
	DISCRETE CONTROL CABLES
	ANALOG CONTROL CABLES
	LIGHTNING PROTECTION CU CABLE GROUND LOOP

LIGHTING

SYMBOL	DESCRIPTION
	FLUORESCENT STRIP FIXTURE
	FLUORESCENT STRIP FIXTURE DIAGONAL SHADING DENOTES EMERGENCY LIGHT FIXTURE.
FIXTURE DESIGNATION — A CIRCUIT NUMBER — 2 a	FLUORESCENT FIXTURE LOWER CASE LETTER INDICATES CONTROL CIRCUIT SWITCH LEG
	FLUORESCENT FIXTURE DIAGONAL SHADING DENOTES EMERGENCY LIGHT FIXTURE. BATTERY CONNECTED TO HOT LEG UNSWITCHED CIRCUIT.
	FLUORESCENT WALL MOUNTED FIXTURE WITH WALL OUTLET BOX
	HID, FLUORESCENT, OR INCANDESCENT FIXTURE
	FLUORESCENT, OR INCANDESCENT WALL WASHER.
	EXIT LIGHT FIXTURE DIRECTION ARROWS AS SHOWN (SHADED QUADRANT INDICATES FACE(S) OF FIXTURE)
	WALL MOUNTED EXIT LIGHT FIXTURE
	BATTERY PACK WITH TWIN HEADS
OS	DUAL TECHNOLOGY OCCUPANCY SENSOR, PROVIDE POWER PACK. LAYOUT A COMPLETE AND OPERATIONAL SYSTEM
PC	PHOTO CELL, ORIENT PHOTO CELL TO FACE NORTH

TELEPHONE/COMPUTER RACEWAY SYSTEM

SYMBOL	DESCRIPTION
	DATA/COMM OUTLET WITH FLUSH MOUNTED 4" SQUARE SINGLE GANG JUNCTION BOX. PROVIDE COVER PLATE. EXTEND 1" CONDUIT TO ELECTRICAL ROOM NEAR TELEPHONE TERMINAL BOARD AND STUB-OUT WITH PLASTIC BUSHING. INSTALL (4) CAT6 CABLE FROM OUTLET TO PATCH PANEL IN ELECTRICAL ROOM.
	TELEPHONE OUTLET WITH FLUSH MOUNTED 4" SQUARE SINGLE GANG JUNCTION BOX. PROVIDE COVER PLATE. EXTEND 1" CONDUIT TO TELEPHONE TERMINAL BOARD AND STUB-OUT WITH PLASTIC BUSHING. INSTALL (1) CAT6 CABLE FROM OUTLET TO PATCH PANEL IN ELECTRICAL ROOM.
TTB	TELEPHONE/COMPUTER TERMINAL BOARD
TTC	TELEPHONE TERMINAL CABINET

FIRE ALARM/DETECTION SYSTEM

SYMBOL	DESCRIPTION
F	MANUAL PULL STATION
	CEILING SMOKE DETECTOR, PHOTO-ELECTRIC TYPE UNLESS OTHERWISE NOTED E = ELEVATOR WITH RECALL CONTACTS I = IONIZATION
R	SUPERVISED CONTROL RELAY
F / XXCD	COMBINATION SPEAKER/VISUAL NOTIFICATION DEVICE CD = CANDELA RATING
SS / XXCD	FIRE ALARM SPEAKER - CEILING MOUNTED CD = CANDELA RATING
FS / XXCD	WALL MOUNTED SPEAKER WITH STROBE CD = CANDELA RATING
SS / XXCD	FIRE ALARM SPEAKER - WALL MOUNTED CD = CANDELA RATING
F	FIRE ALARM SPEAKER WITH STROBE - CEILING MOUNTED CD = CANDELA RATING
F	VISUAL SIGNALING UNIT, WALL MOUNTED (NO AUDIO DEVICE)
TS	SPRINKLER TAMPER SWITCH CONNECTION
FS	SPRINKLER WATERFLOW SWITCH CONNECTION
H	CEILING HEAT DETECTOR 135° F UNLESS OTHERWISE INDICATED.
T	BEAM DETECTOR - TRANSMITTER
R	BEAM DETECTOR - RECEIVER
FACP	FIRE ALARM CONTROL PANEL
FATC	FIRE ALARM TERMINAL CABINET
FAAP	FIRE ALARM ANNUNCIATOR PLAN - FLUSH MOUNTED

SYSTEMS EQUIPMENT

SYMBOL	DESCRIPTION
PTZ	VANDAL RESISTANT FIXED DOME NETWORK CAMERA, BY OTHERS.
CR	CARD READER, BY OTHERS. MOUNT JUNCTION BOX AT 48" AFF. CONCEAL 1" CONDUIT TO SECURITY ALARM PANEL.
DC	DOOR CONTACT SWITCH. MOUNT JUNCTION BOX AT 48" AFF. CONCEAL 1" CONDUIT TO SECURITY ALARM PANEL.
I	INTERCOM, BY OTHERS. MOUNT JUNCTION BOX AT 48" AFF. CONCEAL 1" CONDUIT TO SECURITY ALARM PANEL.
PE	PUSH TO EXIT. MOUNT JUNCTION BOX AT 48" AFF. CONCEAL 1" CONDUIT TO SECURITY ALARM PANEL.
IC	INTERCOM PUSHBUTTON, PROVIDE 3/4" CONCEALED CONDUIT TO ABOVE ACCESSIBLE CEILING.
S	INTERCOM SPEAKER, MATCH EXISTING TYPE, STYLE AND INSTALLATION REQUIREMENTS.
C	WALL CLOCK, MATCH EXISTING TYPE, STYLE AND INSTALLATION REQUIREMENTS.

NOTE: SOME SYMBOLS SHOWN ON THIS LEGEND MAY NOT PERTAIN TO THIS PROJECT.

GENERAL NOTES:

1. ALL WORK AND EQUIPMENT UNDER DIVISION 26 AND 27 SHALL BE IN STRICT COMPLIANCE WITH THE CODES, STANDARDS AND PRACTICES LISTED HEREIN, AND THEIR RESPECTIVE DATES ARE FURNISHED AS THE MINIMUM LATEST REQUIREMENTS.
   1. STATE OF FLORIDA.
   2. LIFE SAFETY CODE - NFPA 101.
   3. UNDERWRITERS LABORATORIES, INC. PUBLICATIONS
   4. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA).
   5. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI).
   6. NATIONAL ELECTRICAL CODE - NFPA 70.
   7. INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE).
   8. NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION (NEMA).
   9. REQUIREMENTS OF LOCAL POWER COMPANY.
   10. 2010 FLORIDA BUILDING CODE.
   11. THE AMERICANS WITH DISABILITIES ACT (ADA)
   12. FLORIDA ACCESSIBILITY CODE.
   13. CITY OF SUWANNEE LOCAL CODES.
2. REFER TO THE MECHANICAL, PLUMBING, CIVIL, AND STRUCTURAL DRAWINGS FOR RELATED INFORMATION AND ADDITIONAL INSTALLATION REQUIREMENTS.
3. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
4. REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR THE REQUIREMENTS ASSOCIATED WITH WIRING AND CONNECTION OF INTERLOCKING AND CONTROLS OF MECHANICAL UNITS AND THERMOSTAT LOCATIONS.
5. COORDINATE OUTLET BOX LOCATIONS WITH MASONRY TO MINIMIZE CUTTING OF BRICK OR BLOCK.
6. ALL MOUNTING HEIGHTS TO CENTERLINE OF DEVICE UNLESS OTHERWISE NOTED. VERIFY ALL OUTLET LOCATIONS ON THE JOB PRIOR TO ROUGH-IN.
7. WHEN INCREASED CONDUCTOR SIZES ARE SHOWN ON THE PLANS, THE LARGER CONDUCTOR SIZE SHALL BE USED THROUGHOUT THE LENGTH OF THE CIRCUIT, INCLUDING NEUTRAL AND GROUND.
8. EACH DATA, TELEPHONE, VIDEO OR OTHER SYSTEMS OUTLET REQUIRES 1" C. WITH PULL STRING STUBBED TO TTB UNLESS OTHERWISE NOTED ON PLANS. PROVIDE INSULATED BUSHINGS ON ALL CONDUITS. LABEL CONDUIT TO IDENTIFY ITS INTENDED USE (IE: TELEPHONE, DATA, ETC.).
9. EACH BRANCH CIRCUIT RACEWAY SHALL HAVE A FULL SIZE EQUIPMENT GROUND CONDUCTOR. WHERE ISOLATED GROUND CIRCUITS ARE SHOWN ON THE PLANS. PROVIDE AN ISOLATED GROUND CONDUCTOR THROUGHOUT THE LENGTH OF THE CIRCUIT IN ADDITION TO THE PHASE, NEUTRAL AND EQUIPMENT GROUND CONDUCTORS.
10. PROVIDE 18" LONG (MIN). CONDUIT SLEEVES THRU ALL WALLS WHERE CABLES ARE INDICATED OR REQUIRED TO PASS THRU WALLS. PROVIDE BUSHINGS ON BOTH ENDS. SIZE CONDUIT FOR CABLES INSTALLED. AT CABLE TRAYS, PROVIDE ONE 4" CONDUIT SLEEVE FOR EACH 4" WIDTH OF CABLE TRAY. MAXIMUMS SHALL BE.
    2"C = 10 CABLES
    2 1/2"C = 20 CABLES
    3"C = 30 CABLES
    4"C = 50 CABLES
11. ALL BRANCH CIRCUIT HOMERUNS SHALL BE ROUTED IN 3/4"C. MINIMUM.
12. LIGHT SWITCHES SHALL BE MOUNTED 48 INCHES ABOVE FINISHED FLOOR TO CENTER LINE OF DEVICE, UNLESS NOTED OTHERWISE.
13. RECEPTACLES SHALL BE LOCATED 18 INCHES ABOVE FINISHED FLOOR TO CENTER LINE OF DEVICE, UNLESS OTHERWISE NOTED. ABOVE-COUNTER RECEPTACLES SHALL BE MOUNTED 6" ABOVE BACK SPLASH TO CENTERLINE OF DEVICE UNLESS NOTED OTHERWISE.
14. EQUIPMENT SHALL BE OF MATERIALS SUITABLE FOR AND RATED FOR THE ENVIRONMENT IN WHICH THEY ARE TO BE INSTALLED, WITH APPROPRIATE NEMA ENCLOSURE RATING.
    A. WORKING CLEARANCES AND DEDICATED SPACE FOR ELECTRICAL EQUIPMENT SHALL BE IN COMPLIANCE WITH NEC 110.
15. WHEN ELECTRICAL BOXES ARE LOCATED IN VERTICAL FIRE-RESISTIVE ASSEMBLIES, (CLASSIFIED AS FIRE/SMOKE AND SMOKE PARTITIONS), THEY SHALL BE INSTALLED WITHOUT AFFECTING THE FIRE CLASSIFICATION. ALL OF THE FOLLOWING CONDITIONS SHALL BE MET:
    A. ALL ELECTRICAL BOXES SHALL BE METALLIC.
    B. BOX OPENING SHALL OCCUR ONLY ON ONE SIDE OF FRAMING SPACE.
    C. BOX OPENING SHALL NOT EXCEED 16 SQUARE INCHES.
    D. ALL CLEARANCES BETWEEN OUTLET BOX AND GYPSUM BOARD SHALL BE COMPLETELY FILLED WITH JOINT COMPOUND (OR OTHER APPROVED MATERIAL).
    E. PROVIDE A WALL AROUND OUTLETS LARGER THAT 16 SQUARE INCHES. THE INTEGRITY OF THE WALL RATING SHALL BE MAINTAINED.
    F. THE TOTAL AGGREGATE SURFACE AREA OF THE BOXES SHALL NOT EXCEED 100 SQUARE INCHES PER 100 SQUARE FEET.
    G. OUTLET BOXES LOCATED ON OPPOSITE SIDES OF FIRE-RESISTIVE ASSEMBLIES SHALL BE SEPARATED BY A MINIMUM HORIZONTAL DISTANCE OF 24 INCHES.
    H. OUTLET BOXES SHALL BE SECURELY FASTENED TO WALL FRAMING MEMBERS.
    I. THE OPENING IN THE GYPSUM BOARD FACING SHALL BE CUT NOT TO EXCEED 1/8 INCH BETWEEN THE EDGES OF THE OUTLET BOX AND THE EDGES OF THE OPENING.
16. ALL DEVICES SHALL BE MOUNTED VERTICAL, UNLESS OTHERWISE NOTED.
17. ALL RECEPTACLES SHALL BE MOUNTED SUCH THAT THE GROUND PIN IS MOUNTED UP.
18. ALL BRANCH CIRCUIT CONDUITS SHALL CONTAIN A MINIMUM OF (2) #12AWG INSULATED COPPER CONDUCTORS, PLUS A MINIMUM OF (1) #12AWG GROUND WIRE UNLESS OTHERWISE NOTED. ALL BRANCH CIRCUITS AND FEEDERS SHALL HAVE INDIVIDUAL NEUTRAL CONDUCTORS.
19. COORDINATE THE LOCATION OF ALL DEVICES AND BOXES WITH WINDOWS, BUILT-INS, AND CABINETS PRIOR TO INSTALLATION OF CONDUITS OR BOXES. CONTRACTOR SHALL CONSULT ALL CONTRACT DRAWINGS TO VERIFY CONFLICTS PRIOR TO BIDDING.
20. COORDINATE HEIGHTS OF WALL MOUNTED LIGHTING FIXTURES TO CLEAR MIRRORS, CABINETS AND BUILT-INS.
21. PROVIDE A PERMANENT SIGN ON THE MAIN ELECTRICAL ROOM DOOR TO THE BUILDING STATING THAT THE MAIN SERVICE DISCONNECT(S) ARE LOCATED INSIDE.
22. COORDINATE INSTALLATION OF ANY DEVICE LOCATED IN MILLWORK WITH ARCHITECTURAL DRAWINGS AND DETAILS PRIOR TO ROUGHING IN BOXES AND ROUTING CONDUIT.
23. LOCATIONS OF EQUIPMENT SPECIFIED BY OTHER TRADES OR PROVIDED BY OWNER ARE APPROXIMATE. COORDINATE EXACT LOCATIONS IN FIELD PRIOR TO ROUGHING IN AND ROUTING CONDUIT.
24. SEE ARCHITECTURAL REFLECTED CEILING PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF LIGHT FIXTURES IN LAY-IN OR DRYWALL CEILINGS, AND ON INTERIOR AND EXTERIOR WALLS.
25. CONTRACTOR SHALL UPSIZE FEEDER AND BRANCH CIRCUIT WIRE SIZE AS REQUIRED TO COMPENSATE VOLTAGE DROP FROM LENGTHENING OF CIRCUITS DUE TO FIELD ROUTING. FINAL INSTALLATION SHALL MEET FLORIDA BUILDING CODE REQUIREMENT OF: MAXIMUM BRANCH CIRCUIT VOLTAGE DROP OF 3%:
26. REFER TO VOLTAGE DROP CHART BELOW FOR CONDUCTOR SIZES FOR BRANCH CIRCUITS

120 VOLT CIRCUIT LENGTH	MIN. CONDUCTOR UP SIZE FOR VOLTAGE DROP
0 - 70'	#12 AWG
71' - 115'	#10 AWG
116' - 180'	#8 AWG

181' AND ABOVE TO BE SUBMITTED BY EC AND APPROVED BY ENGINEER.

277 VOLT CIRCUIT LENGTH	MIN. CONDUCTOR UP SIZE FOR VOLTAGE DROP
0' - 140'	#12 AWG
141' - 220'	#10 AWG
221' - 350'	#8 AWG

351' AND ABOVE TO BE SUBMITTED BY EC AND APPROVED BY ENGINEER.

27. EMERGENCY BALLAST BATTERY PACKS AND EMERGENCY EXIT SIGNS, WHERE USED, SHALL BE CONNECTED AHEAD OF LOCAL SWITCHING.
28. PROVIDE HACR RATED CIRCUIT BREAKERS FOR ALL HVAC EQUIPMENT.
29. ELECTRICAL CONTRACTOR SHALL PROVIDE COORDINATION SHOP DRAWINGS WITH PLUMBING, FIRE PROTECTION, AND MECHANICAL DEMONSTRATING COMPLIANCE WITH DEDICATED SPACE AND WORKING CLEARANCE PER NEC.
30. CONTRACTOR SHALL PROVIDE WITHIN 30 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE RECORD DRAWINGS OF THE ACTUAL INSTALLATION INCLUDING: SINGLE LINE DIAGRAM OF THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM AND FLOOR PLANS INDICATING LOCATION AND AREA SERVED FOR ALL DISTRIBUTION.
31. TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THESE PLANS AND SPECIFICATIONS COMPLY WITH THE 2010 FLORIDA BUILDING CODE AND THE FLORIDA FIRE PREVENTION CODE (2010) AND ALL LOCAL CODES AND ORDINANCES.
32. CONTRACTOR SHALL PROVIDE TEMPORARY ELECTRICAL SERVICE FOR USE BY ALL TRADES DURING CONSTRUCTION. REMOVE TEMPORARY POWER AT THE COMPLETION OF THE PROJECT. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS TO OBTAIN TEMPORARY ELECTRICAL SERVICE.
33. CONTRACTOR SHALL PROVIDE MAIN BREAKER SETTINGS AND ALL ADJUSTABLE BREAKER SETTINGS. PROVIDE AND SUBMIT COORDINATION STUDY SHOWING COORDINATION BETWEEN MAIN BREAKER(S) AND THE REST OF POWER DISTRIBUTION. PROVIDE ADJUSTABLE BREAKER FOR AMPACITY LARGER THAN 100A.
34. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONDUITS, BACK BOXES, RACEWAYS, SLEEVES, SITE CONDUIT DUCT BANKS AND MANHOLES FOR THE TELECOMMUNICATIONS SYSTEM. THE STRUCTURED CABLING CONTRACTOR (SCC) SHALL PROVIDE AND INSTALL THE WIRE AND CABLE FOR THE SYSTEMS THEY ARE INSTALLING. THE SCC SUPERVISE THE CONDUIT INSTALLATION AND VERIFY EXACT BACK BOX LOCATIONS AND CONDUIT STUB-UP LOCATIONS IN THE EQUIPMENT ROOMS.
35. PROVIDE AN ADDRESSABLE FIRE ALARM SYSTEM PER NFPA AND ALL STATE AND LOCAL CODE REQUIREMENTS. COMPLY WITH NFPA 72 AND ADA REQUIREMENTS. ALL WIRE SHALL BE INSTALLED IN CONDUIT. STATE CERTIFIED AND LICENSED FIRE ALARM CONTRACTOR SHALL PROVIDE ENGINEERED DRAWINGS AS REQUIRED. PREPARE AND SUBMIT SIGNED AND SEALED DRAWINGS FOR LOCAL JURISDICTION PERMITTING AUTHORITY.
36. FIELD VERIFY LOCATION OF AREA SMOKE DETECTORS AND HEAT DETECTORS. DO NOT LOCATE WITHIN 36" OF A HVAC DIFFUSER (SUPPLY OR RETURN), IN A DIRECT AIR FLOW PATH OR WITHIN 36" OF A SPRINKLER HEAD. SMOKE DETECTORS FOR DOOR RELEASE SHALL BE LOCATED ON THE CENTER LINE OF THE DOOR AND A MAXIMUM OF 5 FEET FROM THE DOOR. THE MINIMUM DISTANCE FROM THE DOOR IS THE DEPTH OF THE WALL SECTION ABOVE THE DOOR, BUT NOT LESS THAN 12".
37. EQUIPMENT SHUTDOWN RELAY SHALL BE LOCATED WITHIN 3 FEET OF THE EQUIPMENT CONTROLS AND THE WIRING TO THE RELAY SHALL BE MONITORED.
38. COORDINATION DRAWINGS
    THIS PROJECT REQUIRES SUBMISSION OF COORDINATION DRAWINGS. THE DIVISION 23 CONTRACTOR IS RESPONSIBLE FOR THE INITIATION AND PREPARATION OF THE COORDINATION DRAWINGS. THIS CONTRACTOR SHALL PARTICIPATE IN THE COORDINATION DRAWING PREPARATION PROCESS AND PROVIDE ALL NECESSARY INFORMATION REQUIRED TO COORDINATE ALL TRADE INFORMATION.
39. PROVIDE PERMANENT LABEL ON ALL PANELS STATING "DO NOT WORK ON EQUIPMENT WHILE ENERGIZED, LOCK-OUT TAG-OUT REQUIRED".
40. SEAL ALL CONDUIT PENETRATIONS THAT PASS THROUGH EXTERIOR BUILDING WALLS.

REVISIONS AND UPDATES

02/14/14		CONSTRUCTION DOCUMENTS FOR BID/PERMIT

SUWANNEE COUNTY SCHOOL BOARD
SUWANNEE PRIMARY SCHOOL
ADDITIONS AND REMODELING
1625 WALKER AVE., SW LIVE OAK, FLORIDA

ELECTRICAL LEGEND AND NOTES

drawn CVM | checked MMH | approved MMH

M. Moncef Hadiji, P.E.
Florida License #48022

Seal

job no. 2012.51

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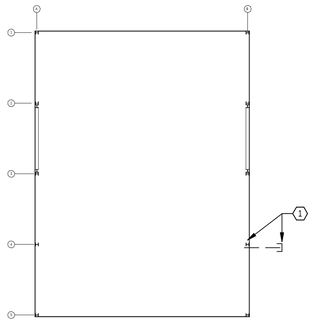

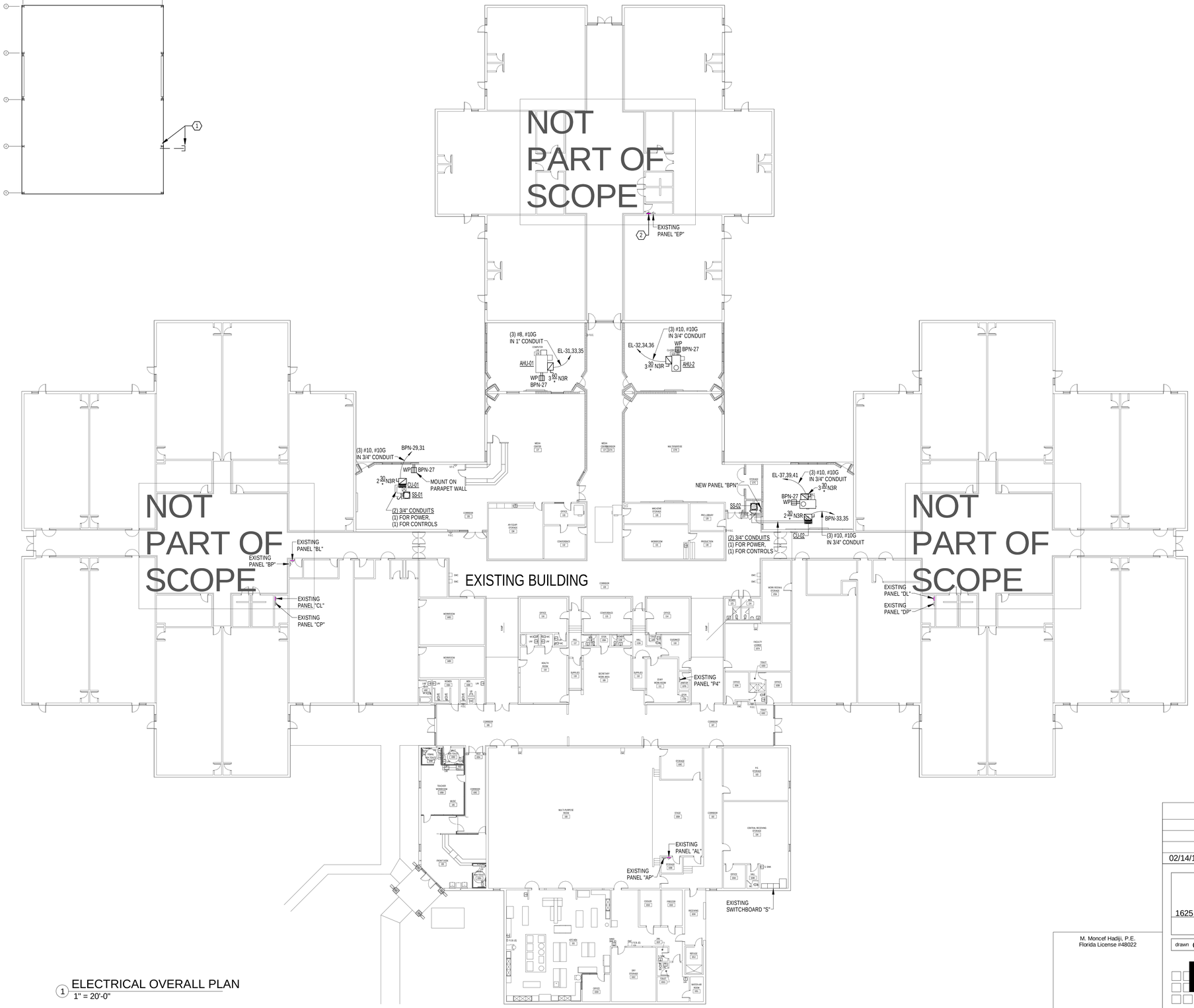

1 ELECTRICAL OVERALL PLAN
1" = 20'-0"

KEYED NOTES:

1. PROVIDE (2) 1" CONDUITS WITH PULL STRING TO 10' OUTSIDE BUILDING PEREMITER. STUB CONDUITS UP 8" AFF AT COLUMN. CAP AND MARK CONDUITS FOR FUTURE POWER CONNECTION.
2. EXISTING PANEL "EL" TO BE REPLACED. REFER TO ONE-LINE DIAGRAM ON SHEET E-4.1.

REVISIONS AND UPDATES		
02/14/14		CONSTRUCTION DOCUMENTS FOR BID/PERMIT

SUWANNEE COUNTY SCHOOL BOARD
SUWANNEE PRIMARY SCHOOL
ADDITIONS AND REMODELING
1625 WALKER AVE., SW LIVE OAK, FLORIDA

ELECTRICAL OVERALL PLAN

drawn CVM/PJM | checked MMH | approved MMH

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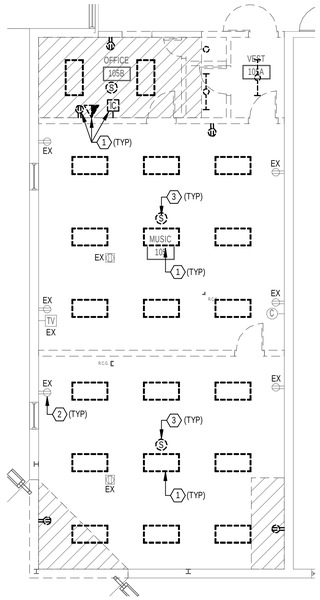
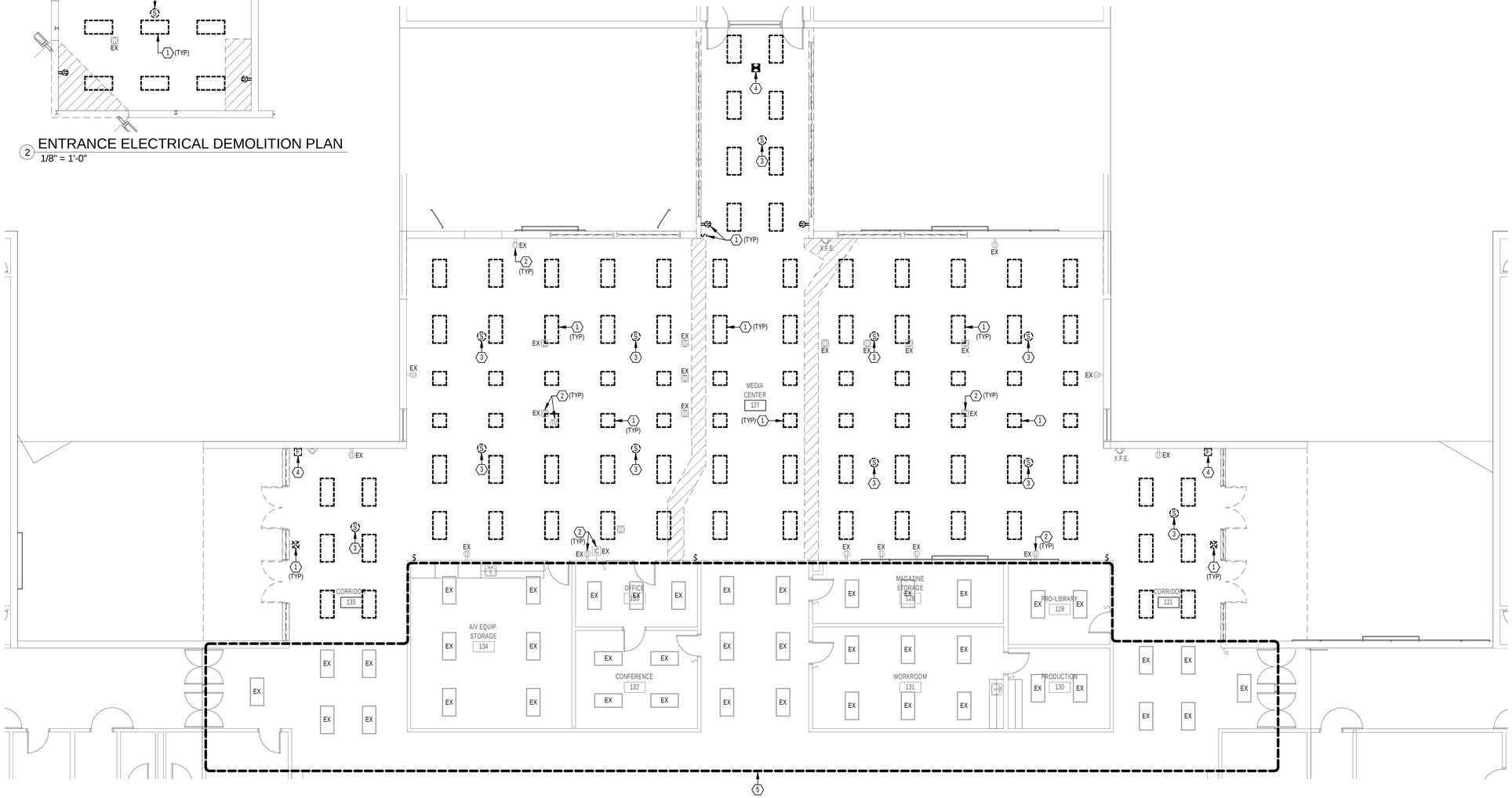


② ENTRANCE ELECTRICAL DEMOLITION PLAN
1/8" = 1'-0"

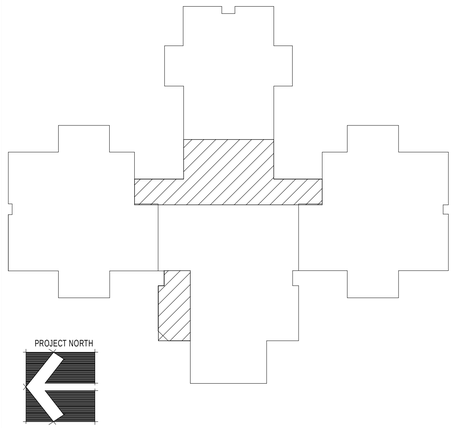


① ELECTRICAL DEMOLITION PLAN
1/8" = 1'-0"

KEYED NOTES:

1. EXISTING LIGHTING FIXTURE/ELECTRICAL DEVICE TO BE DEMOLISHED. RETAIN CIRCUIT FOR FUTURE USE AND MAINTAIN CONTINUITY TO ANY DOWNSTREAM CIRCUITS/FIXTURES AFFECTED BY DEMOLITION (TYPICAL).
2. EXISTING LIGHTING FIXTURE/ELECTRICAL DEVICE TO REMAIN. (TYPICAL)
3. EXISTING CEILING MOUNTED SPEAKER TO BE RELOCATED. REFER TO POWER PLANS ON SHEET E3.1 FOR NEW LOCATIONS. MAINTAIN CONTINUITY TO ANY DOWNSTREAM SPEAKERS AFFECTED BY DEMOLITION (TYPICAL).
4. EXISTING FIRE ALARM DEVICE TO BE RELOCATED. REFER TO POWER PLANS ON SHEET E3.1 FOR NEW LOCATIONS. MAINTAIN CONTINUITY TO ANY DOWNSTREAM DEVICES/SPEAKERS AFFECTED BY DEMOLITION (TYPICAL). PROVIDE ACCEPTANCE TESTING PER NFPA.
5. ALL LIGHTING FIXTURES, ELECTRICAL DEVICES AND SYSTEMS DEVICES WITHIN THIS AREA ARE EXISTING TO REMAIN.

KEY PLAN



REVISIONS AND UPDATES

02/14/14	CONSTRUCTION DOCUMENTS FOR BID/PERMIT

SUWANNEE COUNTY SCHOOL BOARD
SUWANNEE PRIMARY SCHOOL ADDITIONS AND REMODELING
1625 WALKER AVE., SW LIVE OAK, FLORIDA

ELECTRICAL DEMOLITION PLAN

drawn PJM | checked MMH | approved MMH

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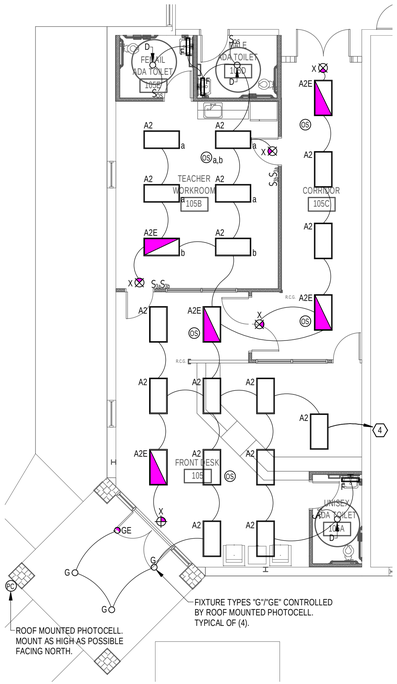


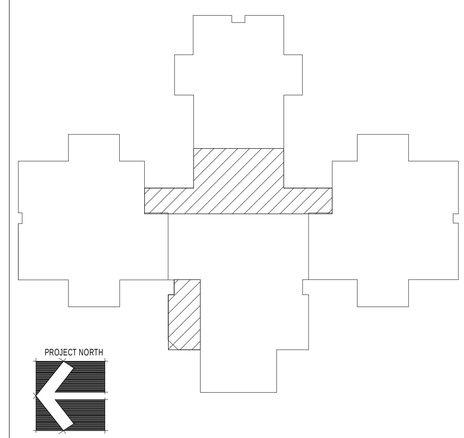
2 ENTRANCE LIGHTING PLAN
1/8" = 1'-0"

1 LIGHTING PLAN
1/8" = 1'-0"

KEYED NOTES:

1. CONNECT NEW CORRIDOR LIGHTING TO EXISTING CORRIDOR LIGHTING CIRCUIT. PROVIDE #12 AWG IN 1/2" CONCEALED CONDUIT.
2. CONNECT NEW LIGHTING TO EXISTING 277V CIRCUIT WITHIN PANEL "BL" MADE AVAILABLE FROM DEMOLITION. PROVIDE NEW 1P/20A PANELBOARD MATCHING CIRCUIT BREAKER AND #12AWG IN 1/2" CONCEALED CONDUIT.
3. CONNECT NEW LIGHTING TO EXISTING 277V SPARE AVAILABLE CIRCUITRY WITHIN PANEL "DL". PROVIDE NEW 1P/20A PANELBOARD MATCHING CIRCUIT BREAKER AND #12AWG IN 1/2" CONCEALED CONDUIT.
4. CONNECT NEW LIGHTING TO EXISTING 277V CIRCUIT WITHIN PANEL "AL" MADE AVAILABLE FROM DEMOLITION. PROVIDE NEW 1P/20A PANELBOARD MATCHING CIRCUIT BREAKER AND #12AWG IN 1/2" CONCEALED CONDUIT.

KEY PLAN



REVISIONS AND UPDATES

02/14/14	CONSTRUCTION DOCUMENTS FOR BID/PERMIT

SUWANNEE COUNTY SCHOOL BOARD
SUWANNEE PRIMARY SCHOOL
ADDITIONS AND REMODELING
1625 WALKER AVE., SW LIVE OAK, FLORIDA

LIGHTING PLANS

drawn PJM | checked MMH | approved MMH

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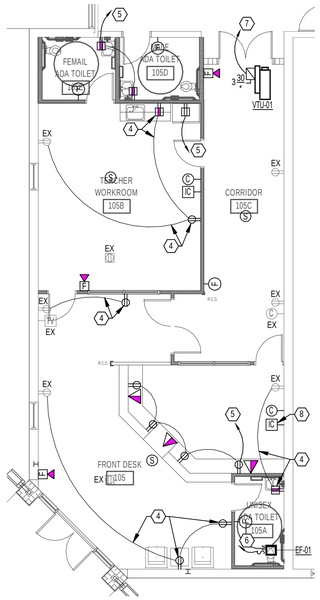
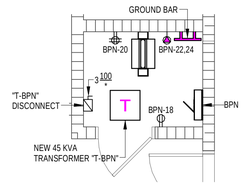
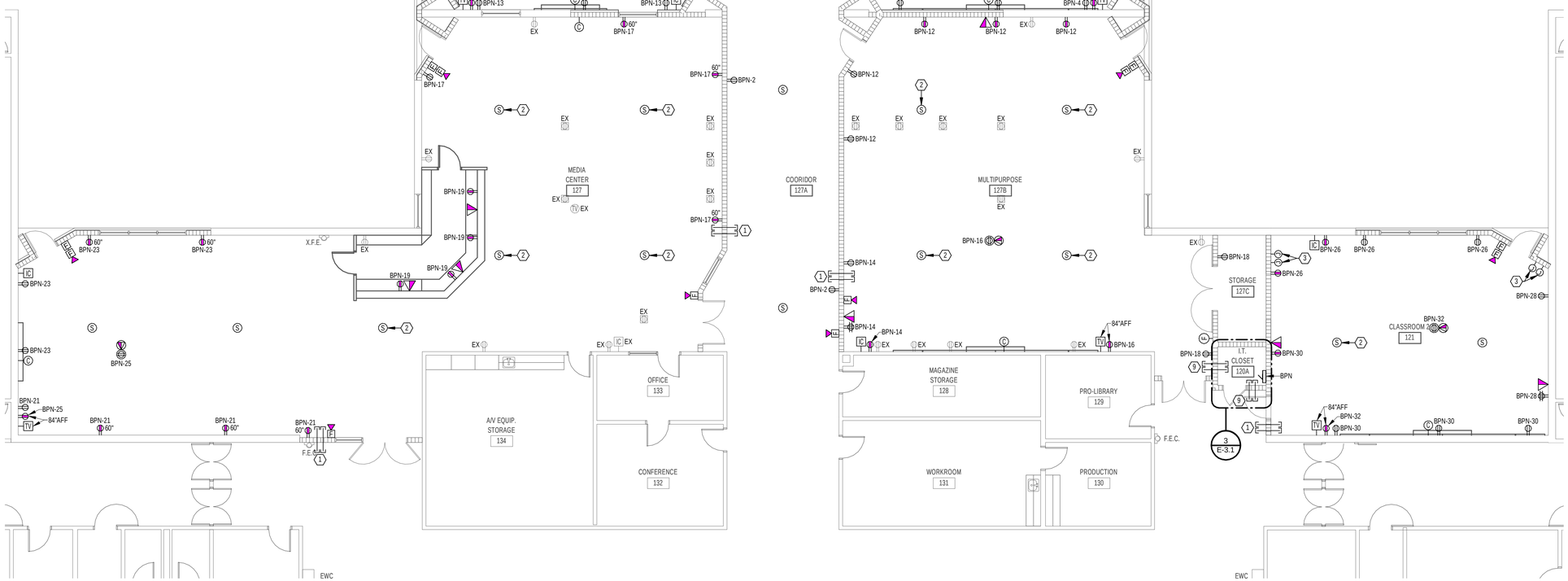


2 ENTRANCE POWER PLAN
1/8" = 1'-0"



3 ENLARGED I.T. CLOSET 120A
1/4" = 1'-0"

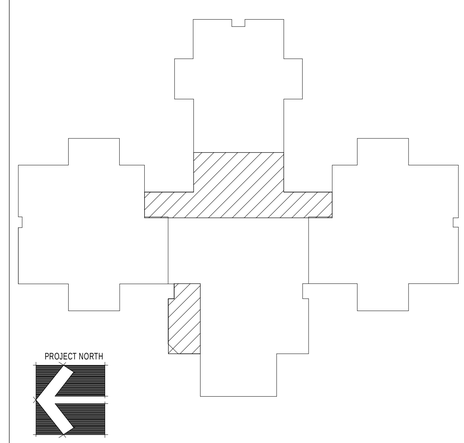


1 POWER PLAN
1/8" = 1'-0"

KEYED NOTES:

1. (2) 1 1/2" CONDUITS ABOVE ACCESSIBLE CEILING FOR DATA CABLING.
2. NEW LOCATION OF EXISTING CEILING MOUNTED INTERCOM SPEAKER, EXTEND/REPLACE WIRING AS REQUIRED TO ACCOMMODATE NEW LOCATION. MAINTAIN CONTINUITY TO EXISTING DOWNSTREAM DEVICES.
3. (2) 4-GANG FLUSH MOUNTED JUNCTION BOXES WITH 1 1/4" CONDUIT EACH EXTENDED TO ABOVE ACCESSIBLE CEILING. (1) FOR FUTURE POWER AND (1) FOR FUTURE DATA.
4. CONNECT NEW RECEPTACLE(S) TO EXISTING RECEPTACLE CIRCUIT. PROVIDE #12AWG IN 1/2" CONCEALED CONDUIT.
5. CONNECT NEW RECEPTACLES TO EXISTING 120V SPARE AVAILABLE CIRCUITRY WITHIN PANEL "AP". PROVIDE NEW 1P/20A PANELBOARD MATCHING CIRCUIT BREAKER AND #12AWG IN 1/2" CONCEALED CONDUIT.
6. CONNECT NEW EXHAUST FAN TO ROOM LIGHTING CIRCUIT.
7. CONNECT TO EXISTING PANEL "P4" LOCATED IN JANITOR CLOSET 107B. PROVIDE (4) #10. (1) #10G IN 3/4" CONCEALED CONDUIT. REFER TO OVERALL PLAN ON SHEET E-1.0 FOR PANEL LOCATION.
8. PROVIDE REMOTE INTERCOM CONTROL STATION, WIRING AND MODULE AT EXISTING INTERCOM HEAD END EQUIPMENT TO ENABLE INTERCOM ANNOUNCEMENTS AT THIS LOCATION.
9. (2) 3" CONDUITS ABOVE ACCESSIBLE CEILING FOR DATA CABLING.

KEY PLAN



REVISIONS AND UPDATES

02/14/14	CONSTRUCTION DOCUMENTS FOR BID/PERMIT

SUWANNEE COUNTY SCHOOL BOARD
SUWANNEE PRIMARY SCHOOL ADDITIONS AND REMODELING
1625 WALKER AVE., SW LIVE OAK, FLORIDA

POWER/SYSTEMS PLANS

drawn PJM | checked MMH | approved MMH

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job no. 2012.51

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COA #15 TLC NO: 513005

Branch Panel: EL

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 35,000
Mains Type: MLO
Mains Rating: 225 A
MCB Rating:
Neutral Rating:

Notes:

CKT	Circuit Description	Note	Trip	Pole	A		B		C		Pole	Trip	Note	Circuit Description	CKT
1	Existing		20 A	1	2.8 kVA	4.1 kVA					1	20 A		Existing	2
3	Existing		20 A	1			3.1 kVA	2.8 kVA			1	20 A		Existing	4
5	Existing		20 A	1					4.1 kVA	2.8 kVA	1	20 A		Existing	6
7	Existing		20 A	1	3.1 kVA	4.4 kVA					1	20 A		Existing	8
9	Existing		20 A	1			4.1 kVA	4.1 kVA			1	20 A		Existing	10
11	Existing		20 A	1					2.8 kVA	0.0 kVA	1	20 A		Spare	12
13	Spare		20 A	1	0.0 kVA	0.0 kVA					1	20 A		Spare	14
15	Space	--	--	--			0.0 kVA	1.7 kVA			2	15 A		Existing	16
17	Space	--	--	--					0.0 kVA	1.7 kVA					18
19					10.0 kVA	0.0 kVA					--	--	--	Space	20
21	Existing Transformer for Panel "EP"		50 A	3			10.0 kVA	0.0 kVA			--	--	--	Space	22
23									10.0 kVA	0.0 kVA	--	--	--	Space	24
25					9.3 kVA	0.0 kVA					--	--	--	Space	26
27	Transformer T-BPN		70 A	3			9.7 kVA	0.0 kVA			--	--	--	Space	28
29									12.1 kVA	0.0 kVA	--	--	--	Space	30
31					7.0 kVA	4.4 kVA									32
33	AHU-1		35 A	3			7.0 kVA	4.4 kVA			3	20 A		AHU-2	34
35									7.0 kVA	4.4 kVA					36
37					6.0 kVA	0.0 kVA									38
39	AHU-3		30 A	3			6.0 kVA	0.0 kVA			3	30 A		SPD	40
41									6.0 kVA	0.0 kVA					42
				Total Load:	51.1 kVA		52.8 kVA		50.9 kVA						
				Total Amps:	185 A		191 A		184 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	59.9 kVA	108.83%	65.1 kVA		
Receptacle	23.6 kVA	71.19%	16.8 kVA	**Total Conn. Load:**	154.9 kVA
				Total Est. Demand:	153.33 kVA
				Total Conn. Current:	186 A
				Total Est. Demand Current:	184 A

Notes:
1. PROVIDE TYPE WRITTEN DIRECTORY STATING SPECIFIC LOAD AND LOCATION.

Branch Panel: BPN

Location: Storage 127C
Supply From: 45 kVA, 277 V/480 V, Thre...
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type: MCB
Mains Rating: 225 A
MCB Rating: 100 A
Neutral Rating:

Notes:

CKT	Circuit Description	Note	Trip	Pole	A		B		C		Pole	Trip	Note	Circuit Description	CKT
1	Receptacles - Computer Lab 127E		20 A	1	0.8 kVA	0.6 kVA					1	20 A		Receptacles - Corridor 127A	2
3	Receptacles - Computer Lab 127E		20 A	1			0.8 kVA	0.8 kVA			1	20 A		Receptacles - Classroom 1 127D	4
5	Receptacles - Computer Lab 127E		20 A	1					0.8 kVA	0.8 kVA	1	20 A		Receptacles - Classroom 1 127D	6
7	Receptacles - Computer Lab 127E		20 A	1	0.8 kVA	0.8 kVA					1	20 A		Receptacles - Classroom 1 127D	8
9	Receptacles - Computer Lab 127E		20 A	1			0.8 kVA	0.4 kVA			1	20 A		Receptacles - Classroom 1 127D	10
11	Receptacles - Computer Lab 127E		20 A	1					0.8 kVA	1.0 kVA	1	20 A		Receptacles - Mult-purpose 127B	12
13	Receptacles - Computer Lab 127E		20 A	1	0.8 kVA	0.8 kVA					1	20 A		Receptacles - Mult-purpose 127B	14
15	Receptacles - Computer Lab 127E		20 A	1			0.4 kVA	0.4 kVA			1	20 A		Receptacles - Mult-purpose 127B	16
17	Receptacles - Media Center 127		20 A	1					0.8 kVA	0.6 kVA	1	20 A		Receptacles - Room 127B, 127C	18
19	Receptacles - Media Center 127		20 A	1	0.8 kVA	0.4 kVA					1	20 A		Receptacles - Storage 127C	20
21	Receptacles - Media Center 127		20 A	1			0.8 kVA	2.0 kVA			2	30 A		Receptacles - I.T. Rack - Storage 127C	22
23	Receptacles - Media Center 127		20 A	1					0.8 kVA	2.0 kVA					24
25	Receptacles - Media Center 127		20 A	1	0.4 kVA	0.8 kVA					1	20 A		Receptacles - Classroom 121	26
27	Receptacles - Exteroir/Rooftop		20 A	1			0.8 kVA	0.6 kVA			1	20 A		Receptacles - Classroom 121	28
29	CU-01/SS-01		30 A	2					1.9 kVA	0.8 kVA	1	20 A		Receptacles - Classroom 121	30
31					1.9 kVA	0.4 kVA					1	20 A		Receptacles - Classroom 121	32
33	CU-02/SS-02		30 A	2			1.9 kVA	0.0 kVA			1	20 A		Spare	34
35									1.9 kVA	0.0 kVA	1	20 A		Spare	36
37	Space	--	--	--	0.0 kVA	0.0 kVA					1	20 A		Spare	38
39	Space	--	--	--			0.0 kVA	0.0 kVA			1	20 A		Spare	40
41	Space	--	--	--					0.0 kVA	0.0 kVA	1	20 A		Spare	42
				Total Load:	9.3 kVA		9.7 kVA		12.1 kVA						
				Total Amps:	77 A		81 A		102 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	7.5 kVA	112.50%	8.4 kVA		
Receptacle	23.6 kVA	71.19%	16.8 kVA	**Total Conn. Load:**	31.1 kVA
				Total Est. Demand:	25.22 kVA
				Total Conn. Current:	86 A
				Total Est. Demand Current:	70 A

Notes:
1. PROVIDE TYPE WRITTEN DIRECTORY STATING SPECIFIC LOAD AND LOCATION.

LIGHTING FIXTURE SCHEDULE

Type	Description	Manufacturer	Model	Voltage	Required Lamps Type	Required Lamps Lamp Quantity	VA	Comments
A2	2x4 FLUORESCENT TROFFER WITH .125 LENS, (2) F32T8 LAMPS	WILLIAMS LITHONIA METALUX	50G-S24-232-SA12125-EB2-UNV 2GT8-232-A12125M-MVOLT-GEB10PS-LP835 2GR8-232A125-UNV-EB81	277 V	32W T8	2	58 VA	
A2E	2x4 FLUORESCENT TROFFER WITH .125 LENS, (2) F32T8 LAMPS, EMERGENCY BATTERY PACK	WILLIAMS LITHONIA METALUX	50G-S24-232-SA12125-EM1400-EB2-UNV 2GT8-232-A12125M-277-GEB10PS-EL14-LP835 2GR8-232A125-UNV-EB81-EL	277 V	32W T8	2	58 VA	PROVIDE 1400 LUMEN EMERGENCY BATTERY PACK.
B3	2'x4', 3 LAMP, RECESSED DIRECT/INDIRECT DROP BASKET FIXTURE WITH WHITE PERFORATED DIFFUSER	WILLIAMS LITHONIA METALUX	DIG-S24-332-WPR-EB3-UNV 2GT8-332-A12125M-MVOLT-1/3-GEB10PS-LP835 2RDI-332RP-UNV-EB81	277 V	32W T8	3	88 VA	
B3E	2'x4', 3 LAMP, RECESSED DIRECT/INDIRECT DROP BASKET FIXTURE WITH WHITE PERFORATED DIFFUSER, EMERGENCY BATTERY PACK	WILLIAMS LITHONIA METALUX	DIG-S24-332-WPR-EM1400-EB3-UNV 2GT8-332-A12125M-277-1/3-GEB10PS-EL14-LP835 2RDI-332RP-UNV-EB81-EL	277 V	32W T8	3	88 VA	PROVIDE 1400 LUMEN EMERGENCY BATTERY PACK.
C2	4', 2 LAMP FLUORESCENT STRIP FIXTURE	WILLIAMS LITHONIA METALUX	76-4-232-EB2-UNV C-232-MVOLT-GEB10PS SSF-232-UNV-EB81	277 V	32W T8	2	58 VA	
D	6" DIA HORIZONTAL DOWNLIGHT, CLEAR SEMI-SPECULAR REFLECTOR, WHITE TRIM RING	WILLIAMS LITHONIA HALO (COMMERCIAL)	PH60-126Q-CS-EB1-UNV LF6N-1/26TRT-F601AZ-MVOLT-TRW-WLP PD6H126-62HHWF	277 V	26W PL-T	1	28 VA	
F	2'-0" WALL MOUNTED FLUORESCENT WRAPAROUND, CLEAR ACRYLIC PRISMATIC DIFFUSER	WILLIAMS LITHONIA METALUX	20-2-217-A-EB2-UNV WC-217-A12-MVOLT-GEB10PS CR-232A-UNV-EB81 / CR-WALLKIT	277 V	F17T8	2	34 VA	MOUNT DIRECTLY ABOVE MIRROR
G	8" DIA HORIZONTAL DOWNLIGHT, CLEAR SEMI-SPECULAR REFLECTOR, WHITE TRIM RING	WILLIAMS LITHONIA HALO (COMMERCIAL)	PH85-232T-CS-EB1-UNV LF8N-2/32TRT-F803AZ-MVOLT-TRW-WLP PD8H242-82HHWF	277 V	32W PL-T	2	68 VA	
GE	8" DIA HORIZONTAL DOWNLIGHT, CLEAR SEMI-SPECULAR REFLECTOR, WHITE TRIM RING, EMERGENCY BATTERY PACK	WILLIAMS LITHONIA HALO (COMMERCIAL)	PH85-232T-CS-EB1-UNV-EM LF8N-2/32TRT-F803AZ-MVOLT-TRW-WLP PD8H242-82HHWF	277 V	32W PL-T	2	68 VA	
X	LED EXIT SIGN, UNIVERSAL MOUNTING, RED LETTERS, BRUSHED ALUMINUM BACKGROUND, BLACK HOUSING AND SINGLE OR DOUBLE FACE	BEGHELLI EXITRONIX SURELITES	LC1-SA-LR-1/2-B-AT 400U-WB-BL-G2 CX71	277 V	LED	PROVIDED WITH FIXTURE	10 VA	NUMBER OF FACES AND DIRECTIONAL ARROWS AS INDICATED ON PLANS.

NOTES:

1. ALL FLUORESCENT FIXTURES SHALL USE T8 LAMPS AND PROGRAMMED START ELECTRONIC BALLASTS, UNLESS OTHERWISE NOTED. ALL BALLAST SHALL BE HIGH EFFICIENCY TYPE BF 0.88 MINIMUM. PROVIDE UNIVERSAL VOLTAGE BALLAST ON ALL NON-DIMMABLE FLUORESCENT LIGHT FIXTURES. ALL FLUORESCENT FIXTURES INSTALLED IN AREAS WHERE EMI AND/OR RFI ARE A CONCERN SHALL BE EQUIPPED WITH LOW FREQUENCY ELECTRONIC BALLAST.
2. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF LIGHT FIXTURES. COORDINATE TYPE OF CEILING FOR EACH FIXTURE WITH ARCHITECTURAL REFLECTED CEILING PLANS AND PROVIDE FIXTURE TRIM AS REQUIRED.
3. ALL MAGNETIC BALLASTED FIXTURES SHALL BE FUSED.
4. PROVIDE APPROVED FIRE RATED ENCLOSURES FOR ALL LIGHT FIXTURES LOCATED IN FIRE RATED CEILINGS.
5. PROVIDE ALL REQUIRED HARDWARE TO MOUNT FIXTURES PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
6. PROVIDE ZERO DEGREE BALLASTS FOR ALL OUTDOOR LIGHTING FIXTURES.
7. ALL ACRYLIC LENSED FIXTURES SHALL HAVE A LENS THICKNESS OF .125 INCHES MINIMUM.
8. IF THERE IS A DISCREPANCY BETWEEN A FIXTURE DESCRIPTION, AND THE CATALOG NUMBER LISTED, THE FIXTURE DESCRIPTION SHALL DICTATE.
9. COORDINATE DIMMING BALLAST AND DIMMING CONTROL PRODUCTS (PANEL, SWITCH, ETC.) FOR COMPATIBLE OPERATION.
10. ALL EXIT SIGNS AND FIXTURES WITH INTEGRAL BATTERY SHALL HAVE INTEGRAL TEST SWITCH AND LED INDICATOR LIGHT.
11. LOW-MERCURY LAMPS: COMPLY WITH EPA'S TOXICITY CHARACTERISTIC LEACHING PROCEDURE TEST; SHALL YIELD LESS THAN 0.2MG OF MERCURY PER LITER WHEN TESTED ACCORDING TO NEMA LL 1.
12. PROVIDE LAMP AND BALLAST INFORMATION DATA CUT SHEETS THAT INCLUDE ALL TECHNICAL INFORMATION AS PART OF SHOP DRAWINGS.

LOAD SUMMARY - EXISTING SWITCHBOARD "S"

3000A MCB, 277/480V, 3 PHASE, 4WIRE

DESCRIPTION	REMOVED LOAD (KVA)	ADDED LOAD (KVA)	TOTAL LOAD (KVA)
DESIGNED LOAD FROM 1997 PROJECT	--	--	2145.00 KVA
PANEL "EL" / "BNP"	--	83.5 KVA	83.5 KVA
EXISTING PANEL "AL"	3.7 KVA	1.7 KVA	-2.0 KVA
EXISTING PANEL "BL"	12.00 KVA	10.5 KVA	-1.5 KVA
EXISTING PANEL "P4"	--	5.0 KVA	5.0 KVA
TOTAL	15.7 KVA	100.7 KVA	2227.00 KVA

2230.00 KVA @ 277/480V, 3 PHASE = 2684 AMPS

LOAD SUMMARY - EXISTING PANEL "P4"

400A MCB, 277/480V, 3 PHASE, 3 WIRE

DESCRIPTION	REMOVED LOAD (KVA)	ADDED LOAD (KVA)	TOTAL LOAD (KVA)
DESIGNED LOAD FROM 1997 PROJECT	--	--	165.00 KVA
ADDED "VTU-1"	--	5.0 KVA	5.0 KVA
TOTAL	--	5.0 KVA	170.00 KVA

170.00 KVA @ 277/480V, 3 PHASE = 205 AMPS

LOAD SUMMARY - EXISTING PANEL "AL"

100A MLO, 277/480V, 3 PHASE, 4 WIRE

DESCRIPTION	REMOVED LOAD (KVA)	ADDED LOAD (KVA)	TOTAL LOAD (KVA)
DESIGNED LOAD FROM 1997 PROJECT	--	--	70.00 KVA
LIGHTING"	3.7	1.7 KVA	-2.0 KVA
TOTAL	3.7	1.7 KVA	68.00 KVA

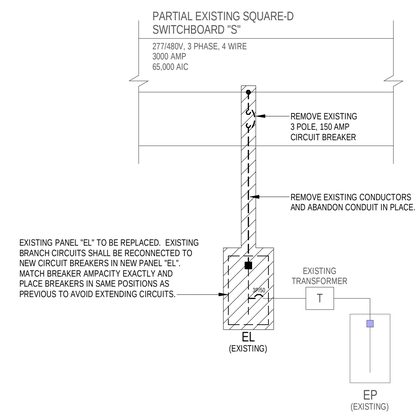
68.00 KVA @ 277/480V, 3 PHASE = 82 AMPS

LOAD SUMMARY - EXISTING PANEL "BL"

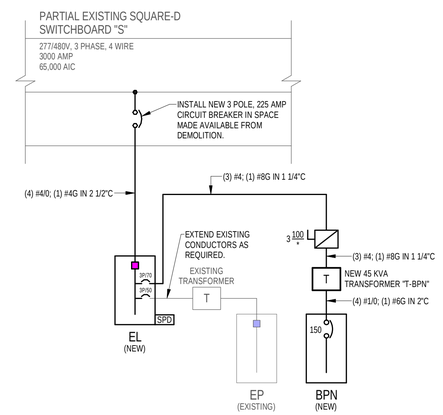
225A MLO, 277/480V, 3 PHASE, 4 WIRE

DESCRIPTION	REMOVED LOAD (KVA)	ADDED LOAD (KVA)	TOTAL LOAD (KVA)
DESIGNED LOAD FROM 1997 PROJECT	--	--	104.00 KVA
LIGHTING"	12.0	10.5 KVA	-1.5 KVA
TOTAL	12.0	10.5 KVA	102.5 KVA

102.5 KVA @ 277/480V, 3 PHASE = 123 AMPS



PARTIAL ONE-LINE DIAGRAM (DEMOLITION)
NO SCALE



PARTIAL ONE-LINE DIAGRAM (NEW)
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REVISIONS AND UPDATES

02/14/14		CONSTRUCTION DOCUMENTS FOR BID/PERMIT

SUWANNEE COUNTY SCHOOL BOARD
SUWANNEE PRIMARY SCHOOL
ADDITIONS AND REMODELING
1625 WALKER AVE., SW LIVE OAK, FLORIDA

ELECTRICAL ONE-LINE AND SCHEDULES

drawn PJM | checked MMH | approved MMH

M. Moncef Hadiji, P.E.
Florida License #48022

Seal

AA-C001560

job no. 2012.51

E-4.1

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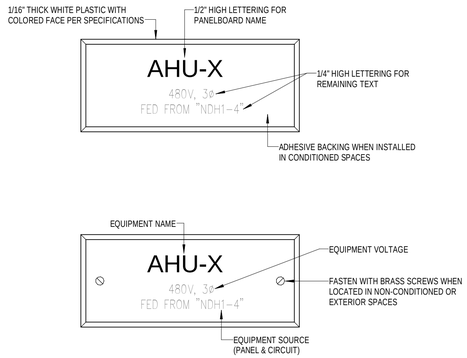

TYPICAL EQUIPMENT

EQUIPMENT NAMEPLATE 3
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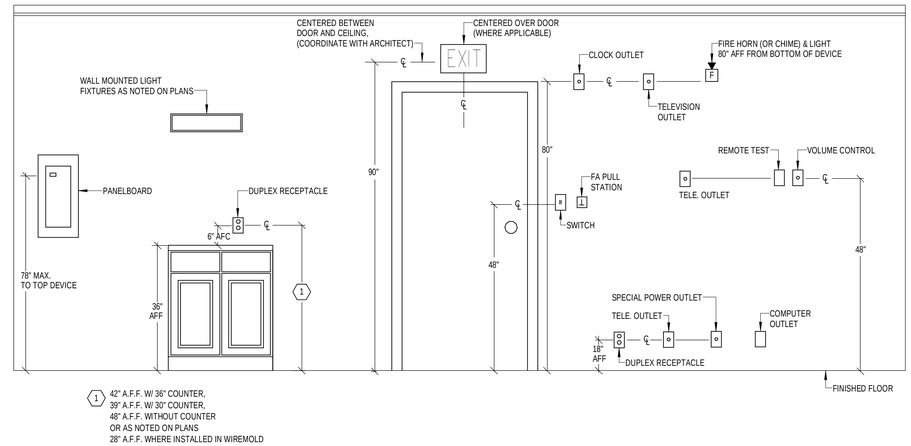

MOUNTING HEIGHTS 1
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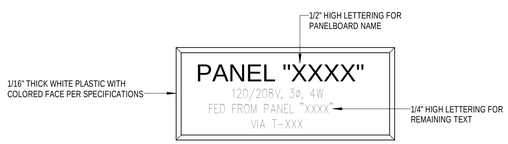

TYPICAL 120/208V PANELBOARD

PANELBOARD NAMEPLATE 4
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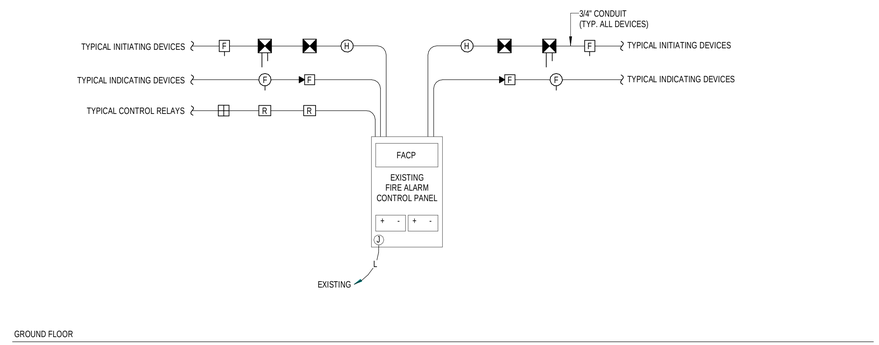

FIRE ALARM RISER 2
No Scale

REVISIONS AND UPDATES		
02/14/14		CONSTRUCTION DOCUMENTS FOR BID/PERMIT

SUWANNEE COUNTY SCHOOL BOARD
SUWANNEE PRIMARY SCHOOL
ADDITIONS AND REMODELING
1625 WALKER AVE., SW LIVE OAK, FLORIDA

ELECTRICAL DETAILS

drawn PJM | checked Checker | approved Approver

M. Moncef Hadiji, P.E.
Florida License #48022

Seal

job no. 2012.51

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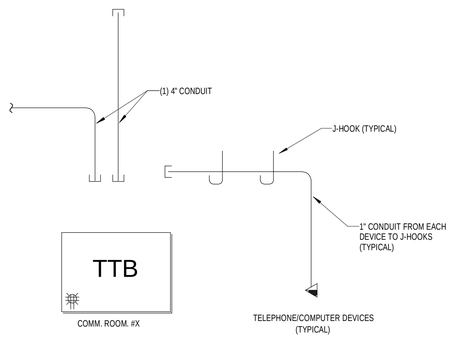
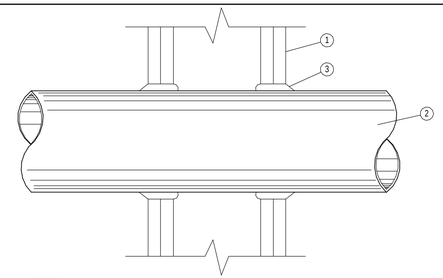


NOTES:

1) PROVIDE BACKBOXES AND CONDUITS ONLY. ALL VOICE/DATA OUTLETS AND SYSTEM WIRING WILL BE PROVIDED BY THE HOSPITAL.

2) PROVIDE 1" CONDUIT FROM EACH DEVICE BACKBOX TO THE NEAREST CABLETRAY.

TELE/DATA RISER (J-HOOK) — 5
No Scale



NOTES:

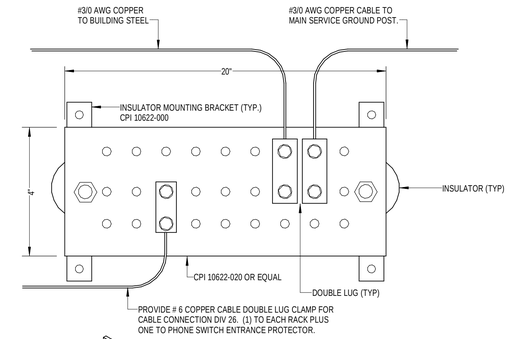
1. WALL ASSEMBLY - THE 1, 2, 3, OR 4 HOUR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY.

2. CONDUIT - NOM 4" DIA OR SMALLER STEEL ELECTRICAL METALLIC TUBING. A MAX OF ONE CONDUIT IS PERMITTED IN THE FIRESTOP SYSTEM. CONDUIT TO BE INSTALLED NEAR CENTER OF STUD CAVITY WIDTH AND TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.

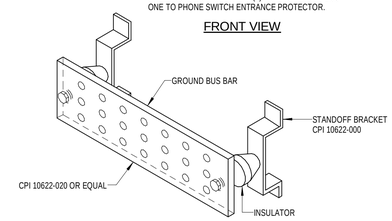
3. FILL VOID OR CAVITY MATERIAL - CAULK FILL MATERIAL BEARING THE UL CLASSIFICATION MARKING INSTALLED TO COMPLETELY FILL ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND GYPSUM WALLBOARD AND WITH A MIN 1/4" DIAM BEAD OF CAULK APPLIED TO PERIMETER OF CONDUIT AT ITS EGRESS FROM THE WALL. CAULK INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE. THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULATED BELOW:

MAX CONDUIT DIAM, IN.	ANNULAR SPACE, IN.	F RATING, HR.	T RATING, HR.
1	0 TO 3/16	1 OR 2	0, 1 OR 2
1	1/4 TO 1/2	3 OR 4	3 OR 4
4	0 TO 1-1/2	1 OR 2	0
6	1/4 TO 1/2	3 OR 4	0
12	3/16 TO 3/8	1 OR 2	0

CONDUIT PENETRATION OF FIREWALL — 3
UL SYSTEM NO. W-L-1001

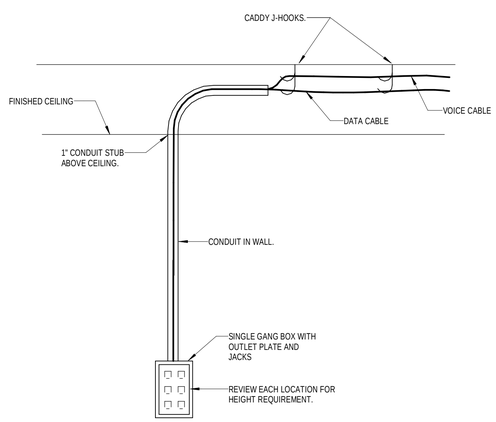


FRONT VIEW



ISOMETRIC ELEVATION

GROUND BAR — 1
No Scale



TYPICAL VOICE / DATA OUTLET — 6
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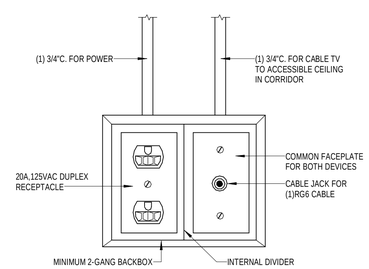
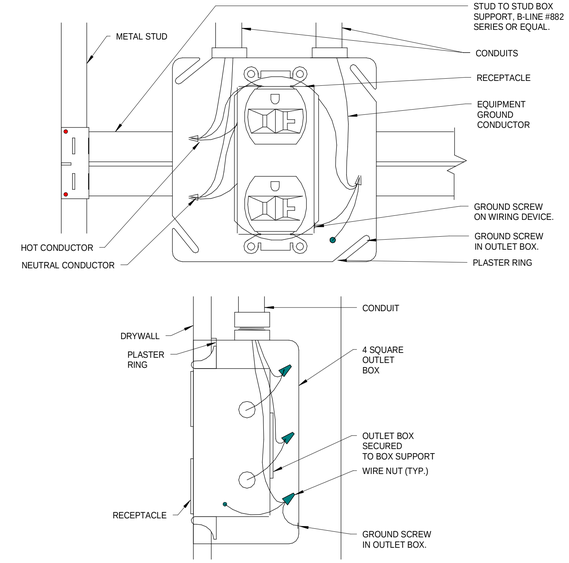


NOTE:
COORDINATE DEVICE LOCATION AND MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS.

CABLE TV/ POWER OUTLET DETAIL — 4
No Scale



TYPICAL RECEPTACLE MOUNTING DETAIL — 2
No Scale

REVISIONS AND UPDATES		
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SUWANNEE COUNTY SCHOOL BOARD
SUWANNEE PRIMARY SCHOOL
ADDITIONS AND REMODELING
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ELECTRICAL DETAILS

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