Allen&Hoshall

engineers-architects-surveyors

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LEWISBURG ELEMENTARY SCHOOL AND LEWISBURG PRIMARY SCHOOL EXPANSION

DESOTO COUNTY SCHOOLS
LEWISBURG, MS

DECEMBER 06 , 2016

INDEX OF DRAWINGS

LEWISBURG ELEMENTARY SCHOOL

LEWISBURG PRIMARY SCHOOL

Allen&Hoshall
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CLASSROOM ADDITION TO
LEWISBURG ELEMENTARY SCHOOL

1717 Craft Road
Olive Branch, MS 38654

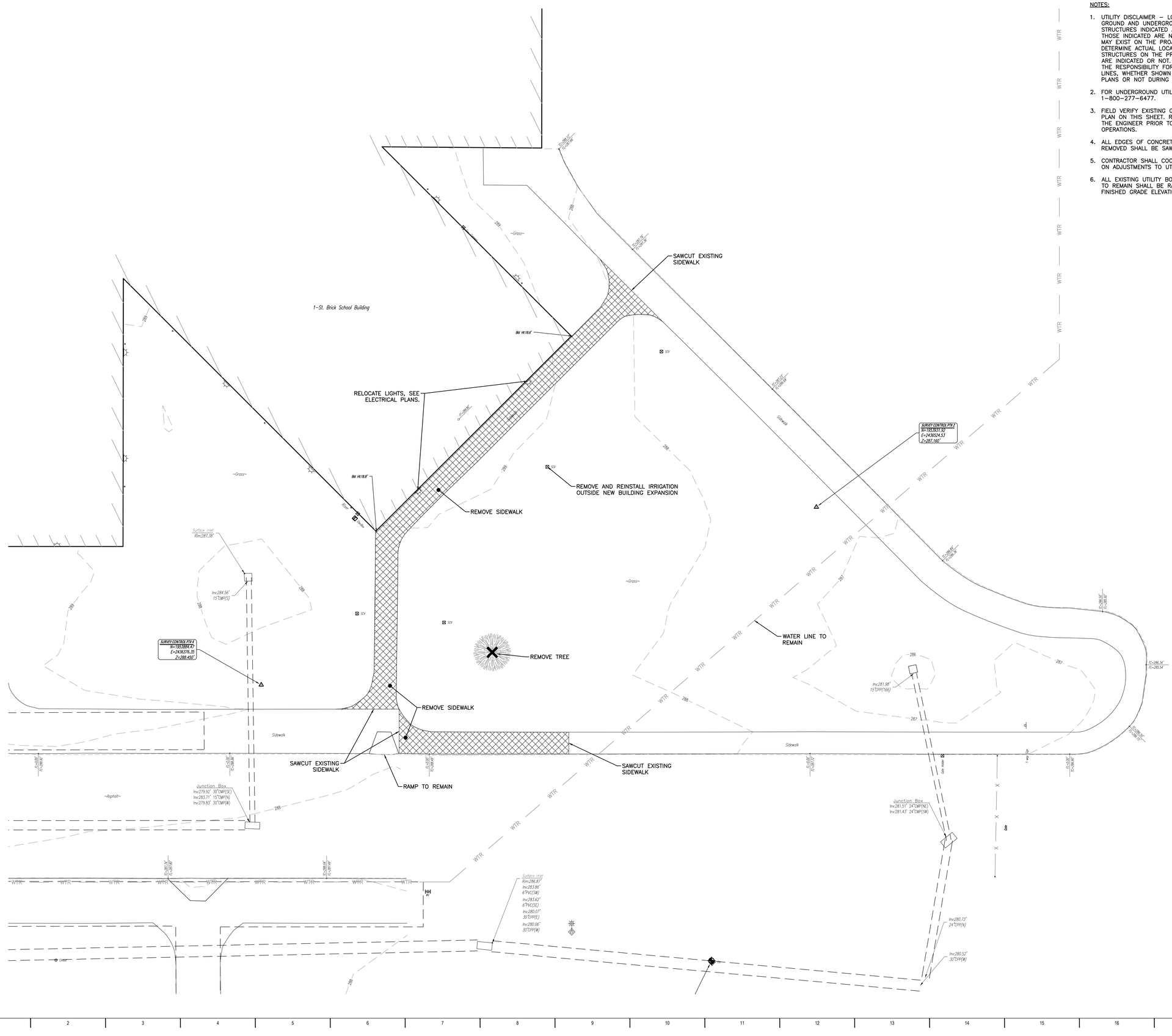
Desoto County School District
5 East South Street, Hernando, Mississippi 38632

No.	Revision	Date

INDEX OF DRAWINGS

JOB NO: 62556
DATE: 12.06.16
DRAWN: NS
CHECKED: MHL
CAD FILE:

LEWISBURG ELEMENTARY
0.0



NOTES:

1. UTILITY DISCLAIMER – LOCATION OF EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES AND STRUCTURES INDICATED ARE APPROXIMATE ONLY AND THOSE INDICATED ARE NOT NECESSARILY ALL WHICH MAY EXIST ON THE PROJECT SITE. CONTRACTOR SHALL DETERMINE ACTUAL LOCATIONS OF ALL UTILITIES AND STRUCTURES ON THE PROJECT SITE, WHETHER THEY ARE INDICATED OR NOT. CONTRACTOR SHALL ASSUME THE RESPONSIBILITY FOR ANY DAMAGE TO THE UTILITY LINES, WHETHER SHOWN ON THE CONSTRUCTION PLANS OR NOT DURING WORK ON THE PROJECT.
2. FOR UNDERGROUND UTILITY LOCATIONS CALL 1-800-277-6477.
3. FIELD VERIFY EXISTING GRADES AND COMPARE WITH PLAN ON THIS SHEET. REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO STARTING CONSTRUCTION OPERATIONS.
4. ALL EDGES OF CONCRETE AND ASPHALT TO BE REMOVED SHALL BE SAWCUT ON NEAT LINES.
5. CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY ON ADJUSTMENTS TO UTILITY BOXES OR VALVES.
6. ALL EXISTING UTILITY BOX LIDS AND MANHOLE LIDS TO REMAIN SHALL BE RAISED OR LOWERED TO MATCH FINISHED GRADE ELEVATION.

NORTH

5' 0 10' 20'

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EXISTING CONDITIONS AND DEMOLITION PLAN

JOB NO: 62556
DATE: 12.06.16
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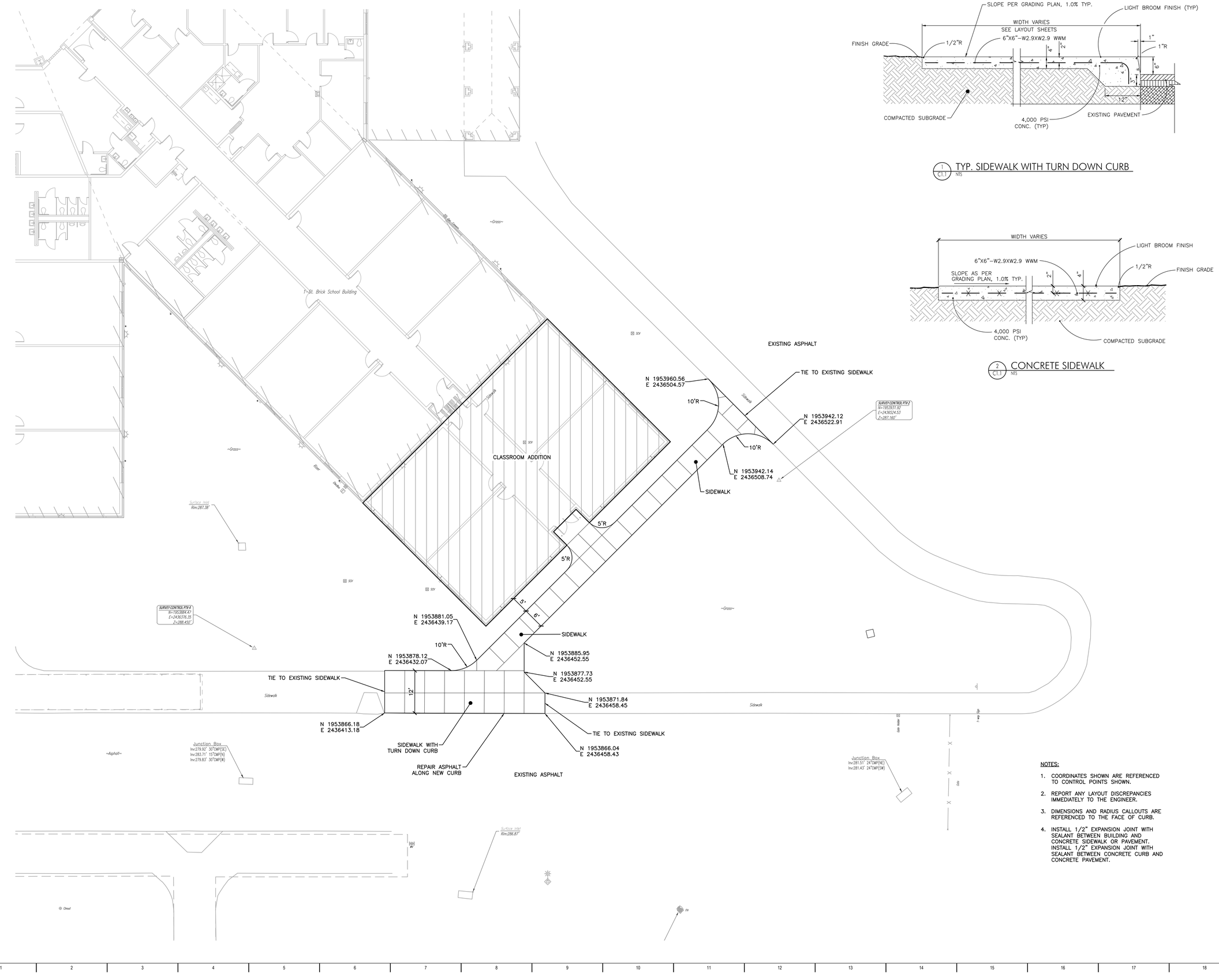
CAD FILE:

ROY D. LAMICA
REGISTERED PROFESSIONAL ENGINEER
PE-20135
STATE OF MISSISSIPPI
12/6/16

LEWISBURG ELEMENTARY
C0.1



1 / C1.1 TYP. SIDEWALK WITH TURN DOWN CURB
NTS

2 / C1.1 CONCRETE SIDEWALK
NTS

NOTES:

1. COORDINATES SHOWN ARE REFERENCED TO CONTROL POINTS SHOWN.
2. REPORT ANY LAYOUT DISCREPANCIES IMMEDIATELY TO THE ENGINEER.
3. DIMENSIONS AND RADIUS CALLOUTS ARE REFERENCED TO THE FACE OF CURB.
4. INSTALL 1/2" EXPANSION JOINT WITH SEALANT BETWEEN BUILDING AND CONCRETE SIDEWALK OR PAVEMENT. INSTALL 1/2" EXPANSION JOINT WITH SEALANT BETWEEN CONCRETE CURB AND CONCRETE PAVEMENT.

NORTH

5' 0 10' 20'

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LAYOUT PLAN

JOB NO: 62556
DATE: 12.06.16
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CAD FILE:

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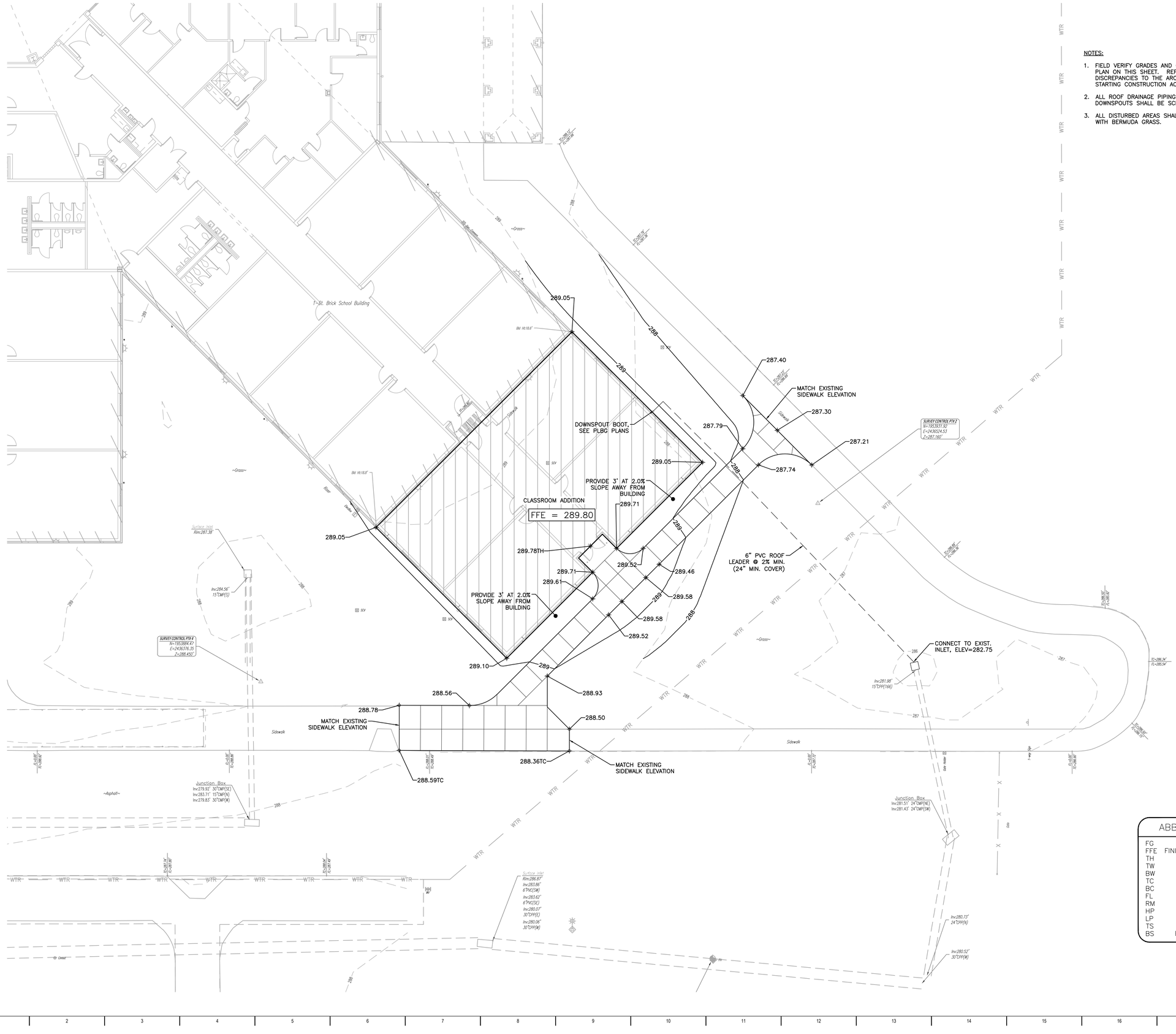
PE-20135
12/6/16
STATE OF MISSISSIPPI

LEWISBURG ELEMENTARY
C1.1



NOTES:

1. FIELD VERIFY GRADES AND COMPARE WITH PLAN ON THIS SHEET. REPORT ALL DISCREPANCIES TO THE ARCHITECT PRIOR TO STARTING CONSTRUCTION ACTIVITIES.
2. ALL ROOF DRAINAGE PIPING FROM DOWNSPOUTS SHALL BE SCH 40 PVC.
3. ALL DISTURBED AREAS SHALL BE SODDED WITH BERMUDA GRASS.

ABBREVIATIONS

FG	FINISHED GRADE
FFE	FINISHED FLOOR ELEV
TH	THRESHOLD
TW	TOP OF WALL
BW	BOTTOM OF WALL
TC	TOP OF CURB
BC	BOTTOM OF CURB
FL	FLOWLINE
RM	RIM
HP	HIGH POINT
LP	LOW POINT
TS	TOP OF STAIRS
BS	BOTTOM OF STAIRS

NORTH

5' 0 10' 20'

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GRADING AND DRAINAGE PLAN

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CAD FILE:

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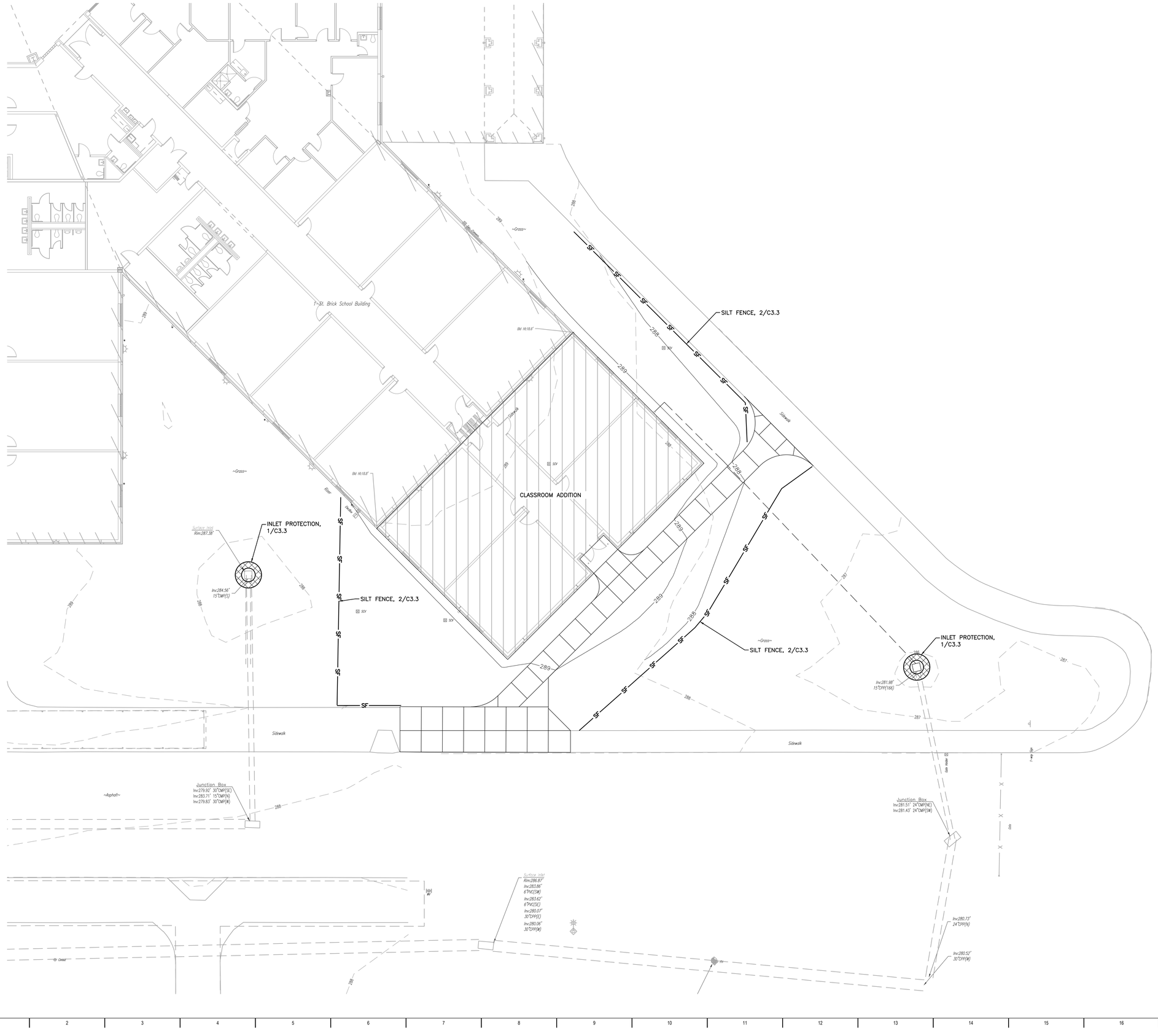
12/6/16
STATE OF MISSISSIPPI

LEWISBURG ELEMENTARY
C2.1



NORTH

5' 0 10' 20'

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No.	Revision	Date

EROSION CONTROL PLAN
PHASE 1

JOB NO: 62556
DATE: 12.06.16
DRAWN: IDW
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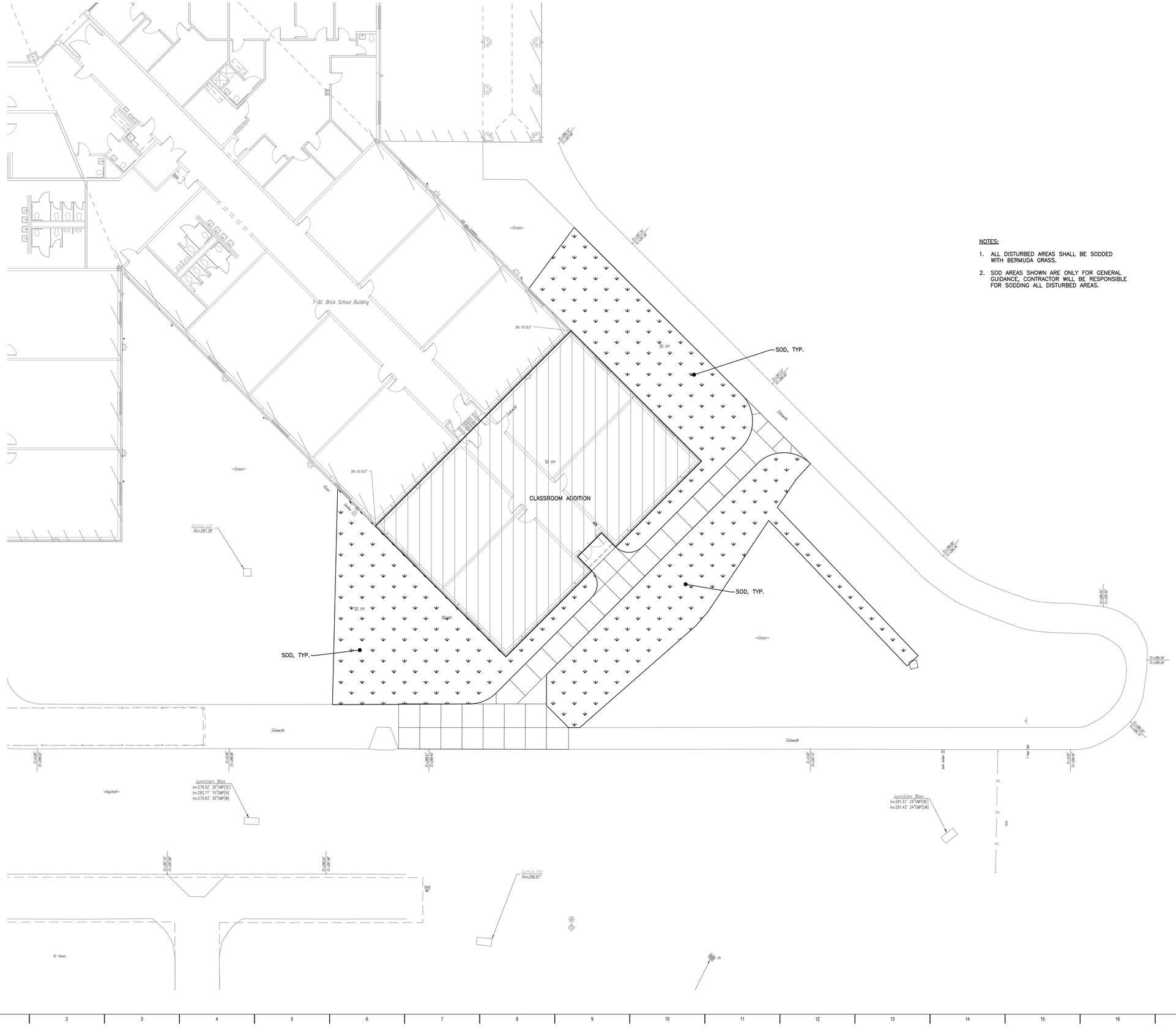
CAD FILE:

ROY D. LAMICA
REGISTERED PROFESSIONAL ENGINEER
PE-20135
12/6/16
STATE OF MISSISSIPPI

LEWISBURG ELEMENTARY

C3.1


1-St. Brick School Building
CLASSROOM ADDITION
SOD, TYP.
SOD, TYP.
SOD, TYP.
~Grass~
~Grass~
~Grass~
~Asphalt~
Sidewalk
Sidewalk
Surface Inlet
Rim=287.38'
Surface Inlet
Rim=286.67'
Junction Box
Inv:279.92' 30"CMP(SE)
Inv:283.71' 15"CMP(N)
Inv:279.83' 30"CMP(W)
Junction Box
Inv:281.51' 24"CMP(NE)
Inv:281.43' 24"CMP(SW)
Gas Valve
Fire Hydrant
Drive
Drive
Street
Street
Bld 16.18.8'
Bld 16.18.8'
Bld
SCV
SCV
SCV
SCV
Chest
FH
TC=287.38'
FC=286.38'
TC=286.56'
FC=285.56'
TC=286.34'
FC=285.34'
TC=286.05'
FC=285.05'
TC=287.38'
FC=286.38'
TC=286.49'
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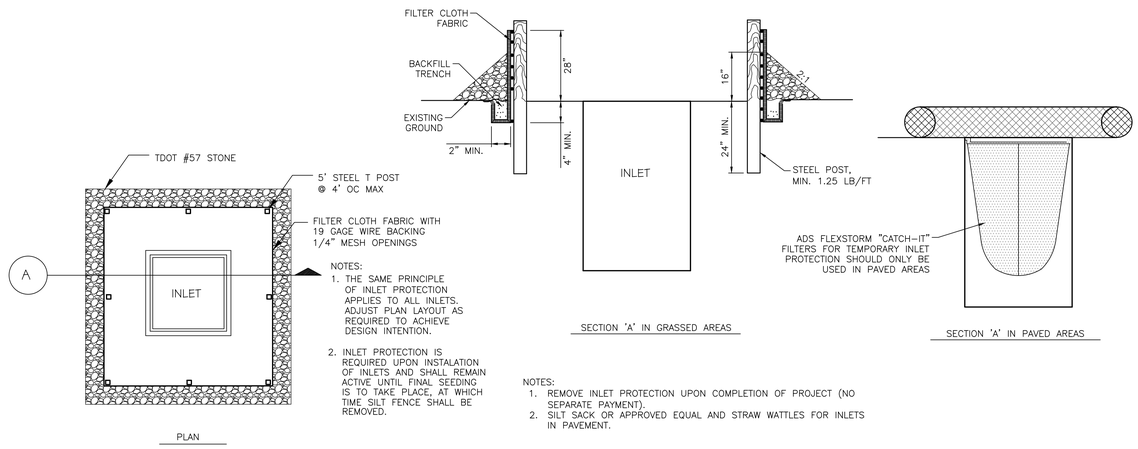
FC=285.49'
TC=286.49'
FC=285.49

EROSION CONTROL NOTES

1. THE PURPOSE OF THIS EROSION CONTROL PLAN IS TO PREVENT SILTATION AND OTHER POLLUTANTS, DUE TO CONSTRUCTION, FROM ENTERING ADJACENT STREAMS AND PROPERTY.
2. CLEARING AND GRUBBING IS TO BE HELD TO THE MINIMUM WIDTH NECESSARY TO ACCOMMODATE SLOPES. UNNECESSARY CANOPY REMOVAL (TREES, SHRUBS, ETC.) IS PROHIBITED.
3. MAINTAIN ALL GROUND COVER WHENEVER POSSIBLE. ALL AREAS DISTURBED BY CONSTRUCTION THAT ARE NOT TO RECEIVE PAVING SHALL BE SODDED AS SOON AS POSSIBLE.
5. TO REDUCE SEDIMENT IN RUNOFF, EROSION CONTROL MEASURES SHALL BE INSTALLED PROMPTLY DURING ALL CONSTRUCTION PHASES.
6. SEDIMENT TRAPS SHALL BE LOCATED AS NEEDED BY THE ENGINEER.
7. SITE EROSION CONTROLS SHALL BE CHECKED AND IF NECESSARY REPAIRED WEEKLY AND WITHIN 24 HOURS AFTER EACH RAINFALL GREATER THAN 0.5". IN THE EVENT OF CONTINUOUS RAINFALL, EROSION CONTROLS SHALL BE CHECKED DAILY.
8. DURING SEDIMENT REMOVAL, THE CONTRACTOR SHALL TAKE CARE TO ENSURE THAT STRUCTURAL COMPONENTS OF EROSION CONTROL STRUCTURES ARE NOT DAMAGED AND THUS MADE INEFFECTIVE. IF DAMAGE DOES OCCUR, THE CONTRACTOR SHALL REPAIR THE STRUCTURES AT THE CONTRACTOR'S EXPENSE.
9. ALL AREAS TO REMAIN BARE GREATER THAN 14 DAYS MUST BE TEMPORARILY STABILIZED. ALL SLOPES 3:1 OR GREATER TO REMAIN BARE GREATER THAN 7 DAYS MUST BE TEMPORARILY STABILIZED.
10. SEDIMENT REMOVED FROM SEDIMENT CONTROL STRUCTURES IS TO BE PLACED AT A SITE APPROVED BY THE ENGINEER. IT SHALL BE TREATED IN A MANNER SO THAT THE AREA AROUND THE DISPOSAL SITE WILL NOT BE CONTAMINATED OR DAMAGED BY THE SEDIMENT IN RUN-OFF. ALL COST FOR SEDIMENT REMOVAL SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
11. UPON COMPLETE REMOVAL OF SEDIMENT TRAPS, SPECIAL DITCHES, ETC., THE AREA WHERE THEY WERE CONSTRUCTED IS TO BE TOPSOILED AND SEEDED.
12. ALL STOCKPILES TO BE CONTAINED BY SILT FENCE IN ORDER TO PREVENT SEDIMENT RUNOFF FROM ENTERING NEARBY STREAMS.
13. SHOULDERS AND EXCAVATED AREAS SHALL BE PROMPTLY STABILIZED AGAINST EROSION. SILTATION MEASURES SHALL BE IMPLEMENTED PROMPTLY TO REDUCE THE SEDIMENT IN RUN-OFF FROM THE CONSTRUCTION SITE.
14. EQUIPMENT STAGING AND MAINTENANCE AREAS SHALL BE DEVELOPED A SUFFICIENT DISTANCE FROM STREAMS TO ENSURE THAT OIL, GASOLINE, AND OTHER PETROLEUM POLLUTANTS DO NOT ENTER THE WATERWAYS.
15. FAILURE TO MAINTAIN GOOD EROSION CONTROL MEASURES COULD RESULT IN A FINE BEING ISSUED TO THE CONTRACTOR.
16. THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL DEVICES IN GENERAL CONFORMANCE TO THE EROSION CONTROL PLAN. THE EROSION CONTROL PLAN IS PROVIDED TO INDICATE MINIMUM EROSION CONTROL MEASURES REQUIRED OF THE CONTRACTOR AND DOES NOT TAKE INTO ACCOUNT THE CONTRACTOR'S SEQUENCE OF CONSTRUCTION. ADDITIONAL EROSION CONTROL MEASURES SHALL BE UNDERTAKEN BY THE CONTRACTOR AS REQUIRED TO MINIMIZE IMPACTS TO ADJACENT PROPERTIES AND THE DRAINAGE SYSTEM DOWNSTREAM OF THE SITE, AT NO ADDITIONAL COST.
17. INLET PROTECTION SHALL CONSIST OF TWO SEPARATE LAYERS OF SILT FENCE SURROUNDING THE DRAINAGE STRUCTURE WHEN IN GRASS AREAS, PLUS BELOW-GRADE GEOTEXTILE CATCH BASIN SEDIMENT TRAP (ADS FLEXSTORM "CATCH-IT" - OR APPROVED EQUAL). SEDIMENT SHALL BE REMOVED FROM BELOW-GRADE GEOTEXTILE CATCH BASIN SEDIMENT TRAP ACCORDING TO MANUFACTURER'S RECOMMENDATIONS AT NO ADDITIONAL COST TO OWNER.
18. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL REQUIRED PERMITS HAVE BEEN OBTAINED PRIOR TO BEGINNING CONSTRUCTION OR OTHER ACTIVITIES.
19. A SPECIFIC INDIVIDUAL SHALL BE DESIGNATED TO BE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROLS ON EACH PROJECT SITE.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SOIL EROSION CONTROL MEASURES AS NOTED ON THE PLANS AND AS REQUESTED BY THE OWNER DURING CONSTRUCTION. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR SATISFYING THE REQUIREMENTS OF THE STATE OF MISSISSIPPI DEPARTMENT ENVIRONMENTAL QUALITY AS SET FORTH IN THE EROSION & SEDIMENT CONTROL HANDBOOK. ALL SOIL EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE CONTRACT SO AS TO PREVENT ANY SEDIMENTATION FROM WASHING OFF THE SITE ONTO ADJACENT PROPERTY OR PUBLIC RIGHTS-OF-WAY. STRAW BALE DAMS AND/OR SEDIMENT FENCE SHALL BE INSTALLED AS DIRECTED. THE CONTRACTOR SHALL MAINTAIN A LOG OF ALL MAINTENANCE ACTIVITIES FOR THE EROSION CONTROL ELEMENTS AS REQUIRED BY THE STATE OF MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY.
21. A COPY OF THE EROSION CONTROL PLAN MUST BE AVAILABLE ON SITE FOR THE DIVISION OF WATER POLLUTION CONTROL INSPECTOR ON REQUEST.
22. EROSION AND SEDIMENT CONTROL MEASURES MUST BE IN PLACE AND FUNCTIONAL BEFORE EARTH MOVING OPERATIONS BEGIN, AND MUST BE CONSTRUCTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. TEMPORARY MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORK DAY, BUT MUST BE REPLACED AT THE END OF THE WORK DAY OR PRIOR TO RAINFALL EVENTS.
23. ALL CONTROL MEASURES SHALL BE CHECKED AND REPAIRED AS NECESSARY, WEEKLY IN DRY PERIODS AND WITHIN 24 HOURS AFTER ANY RAINFALL OF 0.5 INCHES WITHIN A 24 HOUR PERIOD. DURING PROLONGED RAINFALL, DAILY CHECKING AND REPAIRING IS NECESSARY. THE PERMITTEE SHALL MAINTAIN RECORDS OF CHECKS AND REPAIRS.
24. ALL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY REGULATIONS.
25. THERE MAY BE EXISTING SILT FENCE IN PLACE, HOWEVER, THE CONTRACTOR IS SOLELY RESPONSIBLE FOR MEETING THE REQUIREMENTS OF THIS PLAN AND FOR INSTALLING NEW SILT FENCE AS REQUIRED.
26. CONTRACTOR SHALL NOTIFY MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY A MINIMUM OF 24 HOURS PRIOR TO BEGINNING CONSTRUCTION.



PLAN

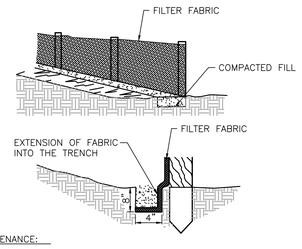
SECTION 'A' IN GRASSED AREAS

SECTION 'A' IN PAVED AREAS

NOTES:
1. THE SAME PRINCIPLE OF INLET PROTECTION APPLIES TO ALL INLETS. ADJUST PLAN LAYOUT AS REQUIRED TO ACHIEVE DESIGN INTENTION.
2. INLET PROTECTION IS REQUIRED UPON INSTALATION OF INLETS AND SHALL REMAIN ACTIVE UNTIL FINAL SEEDING IS TO TAKE PLACE, AT WHICH TIME SILT FENCE SHALL BE REMOVED.

NOTES:
1. REMOVE INLET PROTECTION UPON COMPLETION OF PROJECT (NO SEPARATE PAYMENT).
2. SILT SACK OR APPROVED EQUAL AND STRAW WATTLES FOR INLETS IN PAVEMENT.

1 / C3.3 TYP. INLET PROTECTION
NTS



MAINTENANCE:

1. INSPECT SEDIMENT FENCES AT LEAST TWICE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY. REPLACE BURLAP AS NEEDED.
2. REMOVE SEDIMENT DEPOSITS WHEN THE STORAGE VOLUME HAS BEEN REDUCED BY 50% TO PROVIDE ADEQUATE STORAGE FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

2 / C3.3 SILT FENCE DETAIL
NTS

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EROSION CONTROL
NOTES AND DETAILS

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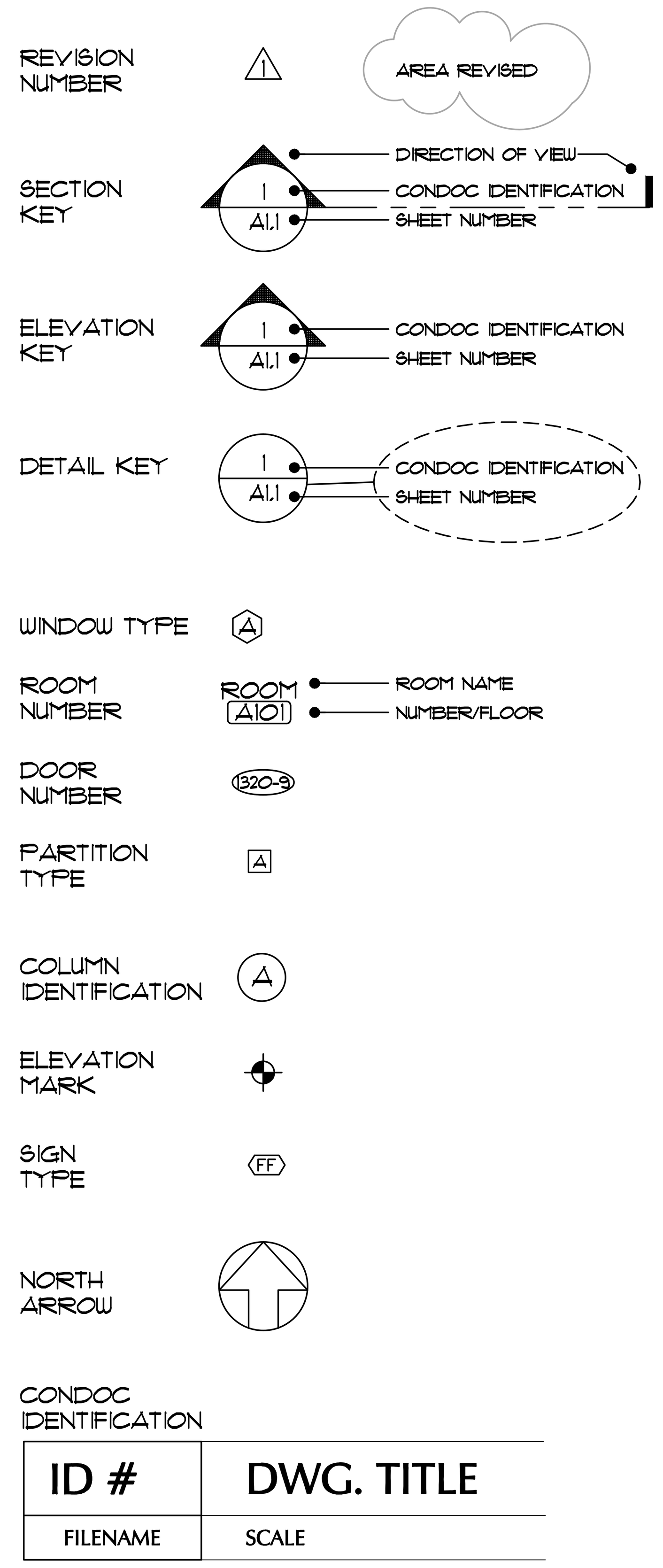
ROY D. LAMICA
LICENSED PROFESSIONAL ENGINEER
PE-20139
12/6/16
STATE OF MISSISSIPPI

LEWISBURG ELEMENTARY
C3.3

ARCH. SYMBOLS



ABBREVIATIONS

A.F.F.	ABOVE FINISH FLOOR
ALUM.	ALUMINUM
BD.	BOARD
BLDG.	BUILDING
B/N	BETWEEN
BR.	BRICK
CLG.	CEILING
℄	CENTER LINE
CONC.	CONCRETE
CONT.	CONTINUOUS
CRS.	COURSES
DBL.	DOUBLE
DTLS.	DETAILS
DWGS.	DRAWINGS
EF	EXHAUST FAN
EJ	EXPANSION JOINT
ELEC.	ELECTRICAL
EXP.	EXPANSION
F.E.C.	FIRE EXTINGUISHER & CABINET
F.E.	FIRE EXTINGUISHER ON WALL BRACKET
F.F.E.	FINISH FLOOR ELEVATION
FLR.	FLOOR
FTG.	FOOTING
GA.	GAUGE
GB	GYPSUM BOARD
GL.	GLASS
HD. HT.	HEAD HEIGHT
HM	HOLLOW METAL
HORIZ.	HORIZONTAL
INSUL.	INSULATION
JT	JOINT
MECH.	MECHANICAL
M.O.	MASONRY OPENING
MTL.	METAL
NIC	NOT IN CONTRACT
NO.	NUMBER
NTS	NOT TO SCALE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.H.	OPPOSITE HAND
OPP.	OPPOSITE
OSB	ORIENTED STRAND BOARD
O.F.O.I.	OWNER FURNISHED OWNER INSTALLED
O.F.C.I.	OWNER FURNISHED CONTRACTOR INSTALLED
PLYWD.	PLYWOOD
POLYETH.	POLYETHYLENE
R45'-0"	RADIUS OF 45'-0"
RAD.	RADIUS
RTU	ROOF TOP UNIT
SCHED.	SCHEDULE
SIM. TO	SIMILAR TO
S.S.	STAINLESS STEEL
STL.	STEEL
STRUCT.	STRUCTURAL
TN	TRUE NORTH
T.O.S.	TOP OF STEEL
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
VEND.	VENDING
VERT.	VERTICAL
WD	WOOD
WNDW.	WINDOW
W/	WITH

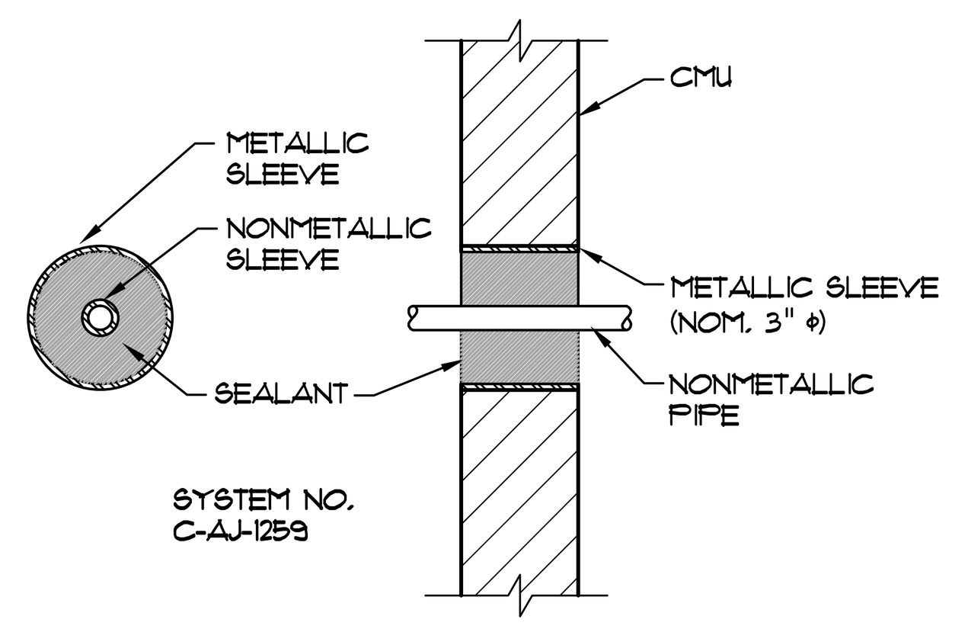
GENERAL NOTES

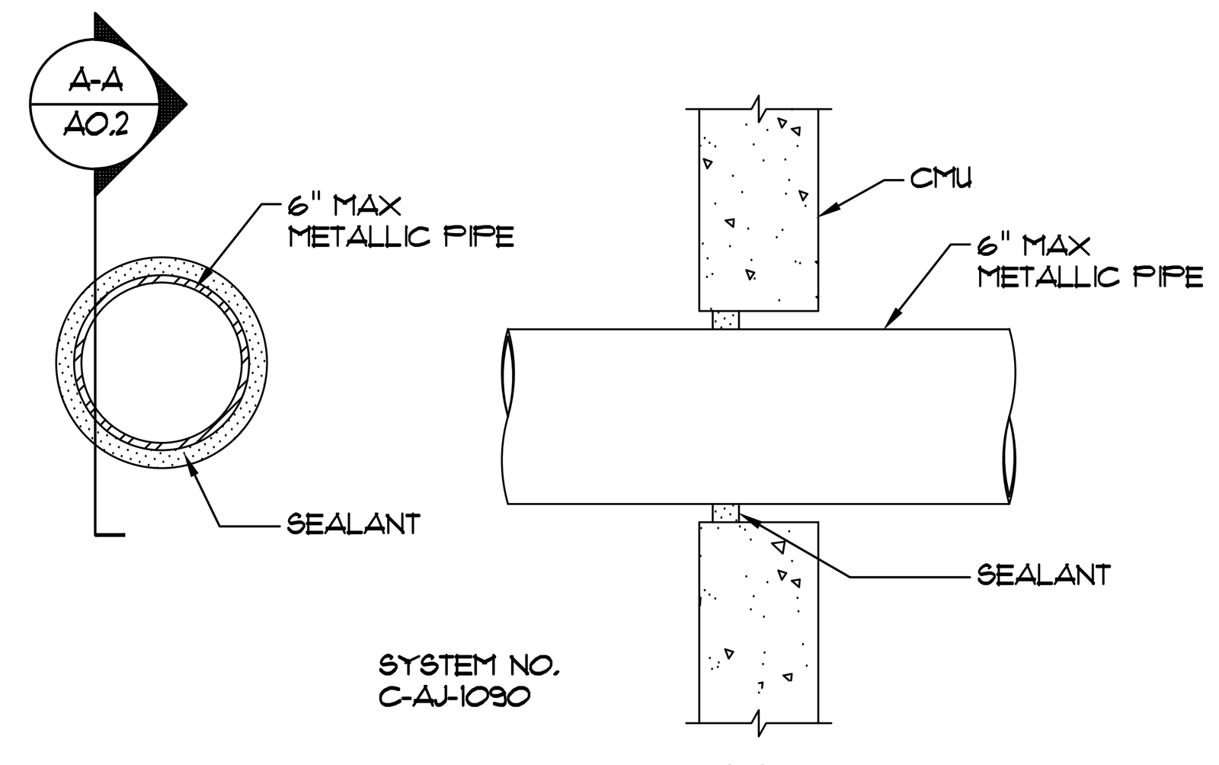
1. PROVIDE TRANSITION BETWEEN NEW AND EXISTING WORK. PATCH AND RESTORE CONSTRUCTION AT TRANSITION AREAS DAMAGED BY CONSTRUCTION/DEMOLITION WITH MATERIALS OF TYPE AND QUALITY EQUAL TO ADJACENT FINISHES.
2. PROTECT THE PUBLIC AT ALL TIMES FROM POTENTIAL CONSTRUCTION HAZARDS. SECURE AND CONTROL ACCESS TO WORK AREAS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A WEATHER TIGHT AND SECURE BUILDING AT ALL TIMES.
4. THE CONTRACTOR SHALL VISIT THE SITE AND THOROUGHLY EXAMINE AND BECOME FAMILIAR WITH EXISTING CONDITIONS INCLUDING DELIVERY AND REMOVAL OF MATERIALS TO AND FROM THE SITE.
5. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS NECESSARY FOR THE PROPER EXECUTION OF THE WORK.
6. FIELD DIMENSIONS AND DIMENSIONAL COORDINATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. REVIEW FIELD CONDITIONS THAT DIFFER FROM CONTRACT DOCUMENTS WITH ARCHITECT PRIOR TO PROCEEDING WITH WORK.
7. SECTIONS AND DETAILS APPLY TO ALL SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
8. MATERIALS REFERRED TO ON DRAWINGS AND DETAILS ARE NEW UNLESS NOTED AS EXISTING. WHERE WORK IS DESCRIBED AS "NEW" OR "REPLACEMENT" THE CONTRACTOR SHALL REMOVE AND LEGALLY DISPOSE OF EXISTING MATERIAL.
9. RESTORE ALL DAMAGE TO BUILDING OR SITE CAUSED DURING CONSTRUCTION TO ITS CONDITION PRIOR TO THE START OF CONSTRUCTION.
10. CONTROL NOISE. CONTAIN ALL DUST AND LEGALLY DISPOSE OF ALL CONSTRUCTION DEBRIS AND MATERIAL REMOVED THAT IS NOT SALVAGED. CONFORM TO ALL CITY CONSTRUCTION REQUIREMENTS.
11. WHILE THE DRAWINGS ARE GENERALLY PRODUCED AT CONVENTIONAL SCALES, WRITTEN DIMENSIONS SUPERCEDE SCALE. DIMENSIONS GIVEN ARE APPROXIMATE AND DO NOT RELIEVE CONTRACTOR FROM MEASURING ACTUAL CONDITIONS IN THE FIELD PRIOR TO PRODUCTION OR ORDERING OF MATERIALS.

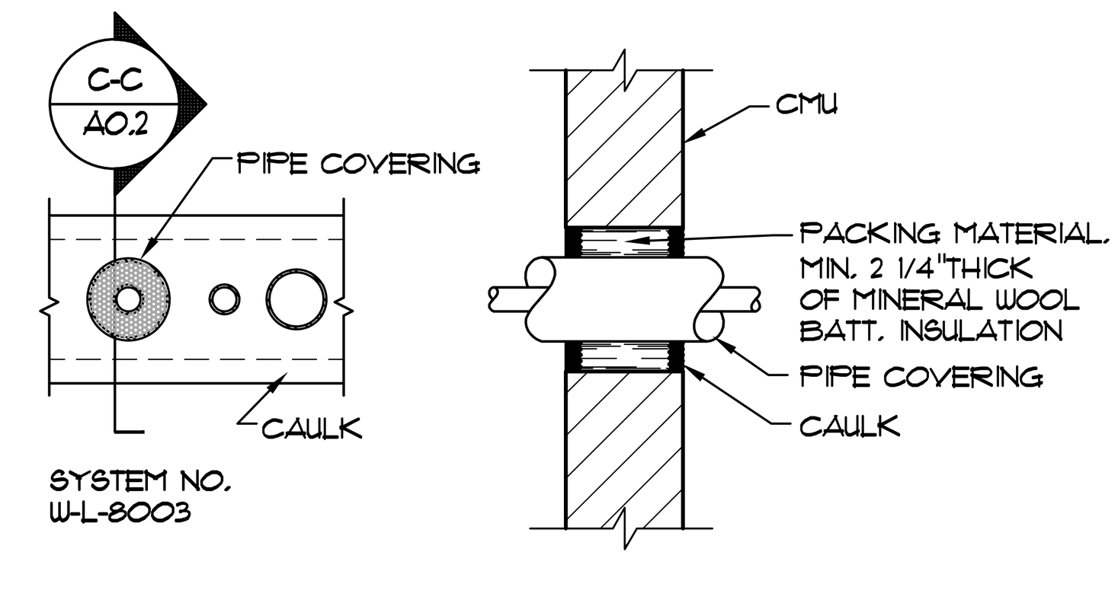
PHASING/SCHEDULING NOTES

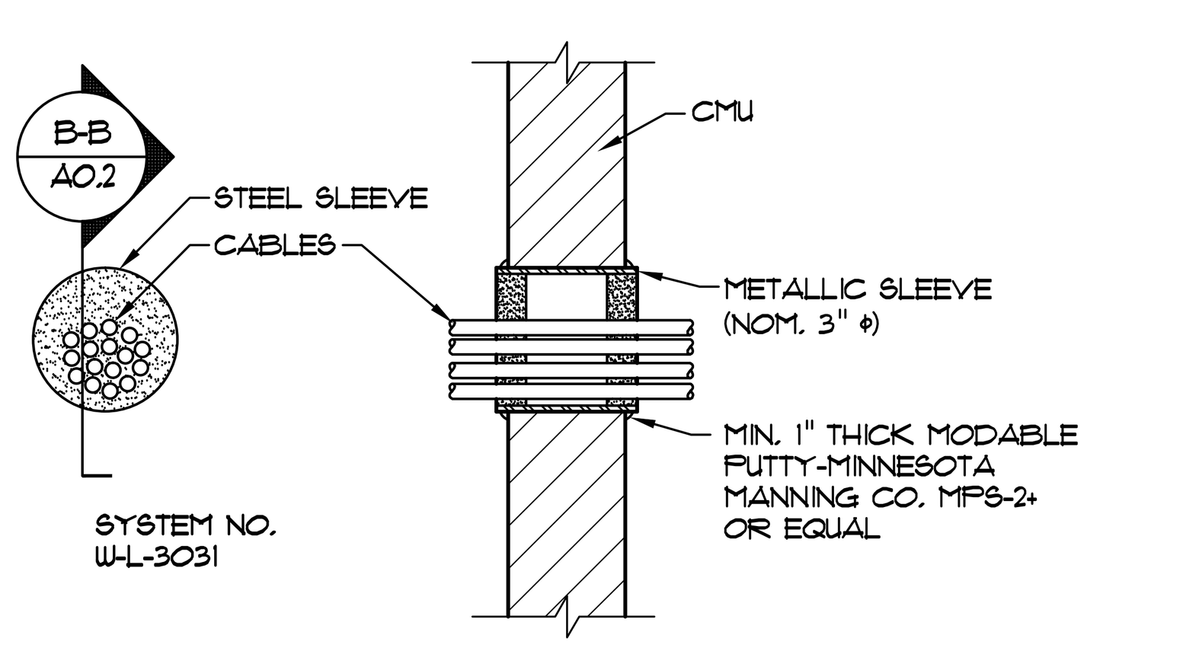
1. ALL WORK SHALL BE COORDINATED WITH PRINCIPAL AND DESOTO COUNTY SCHOOLS.
2. WORK HOURS AND WEEKENDS WILL BE NOT BE RESTRICTED.
3. PHASING PLAN SHALL ALSO IDENTIFY STAGING AREA, SECURITY, AND SITE ACCESS FOR OWNER REVIEW.

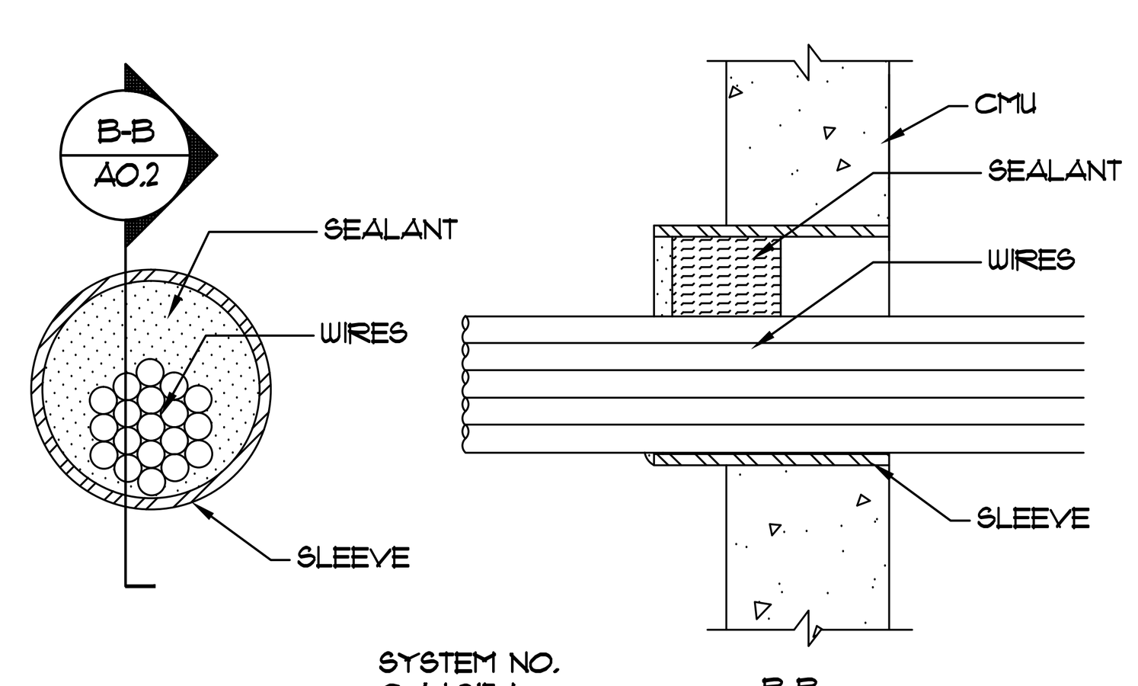
PENETRATIONS

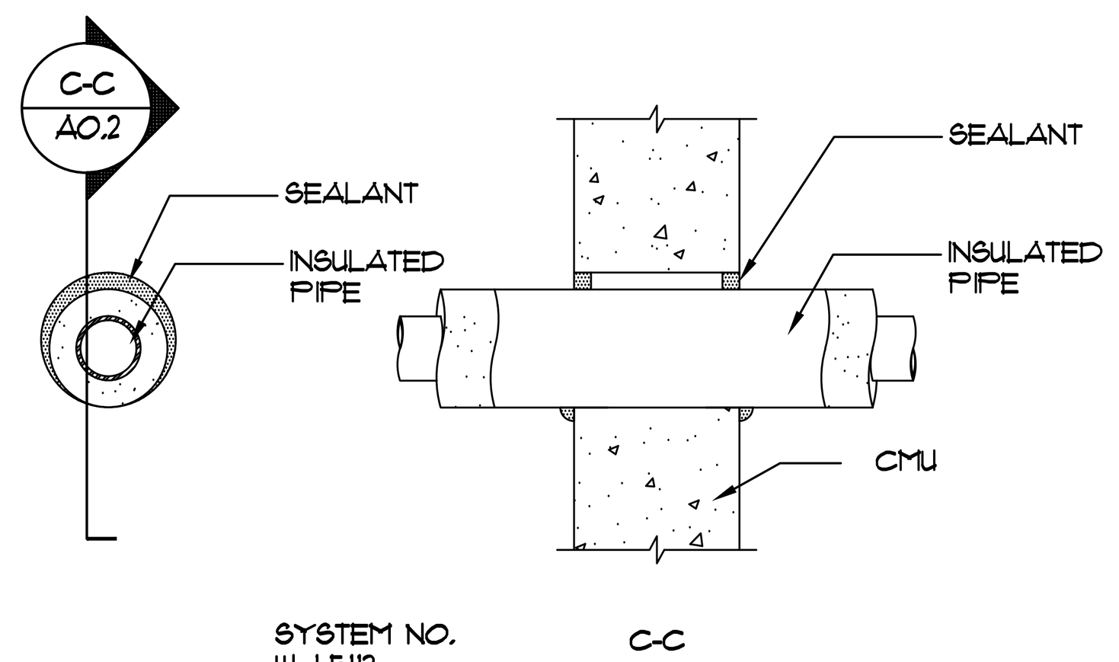






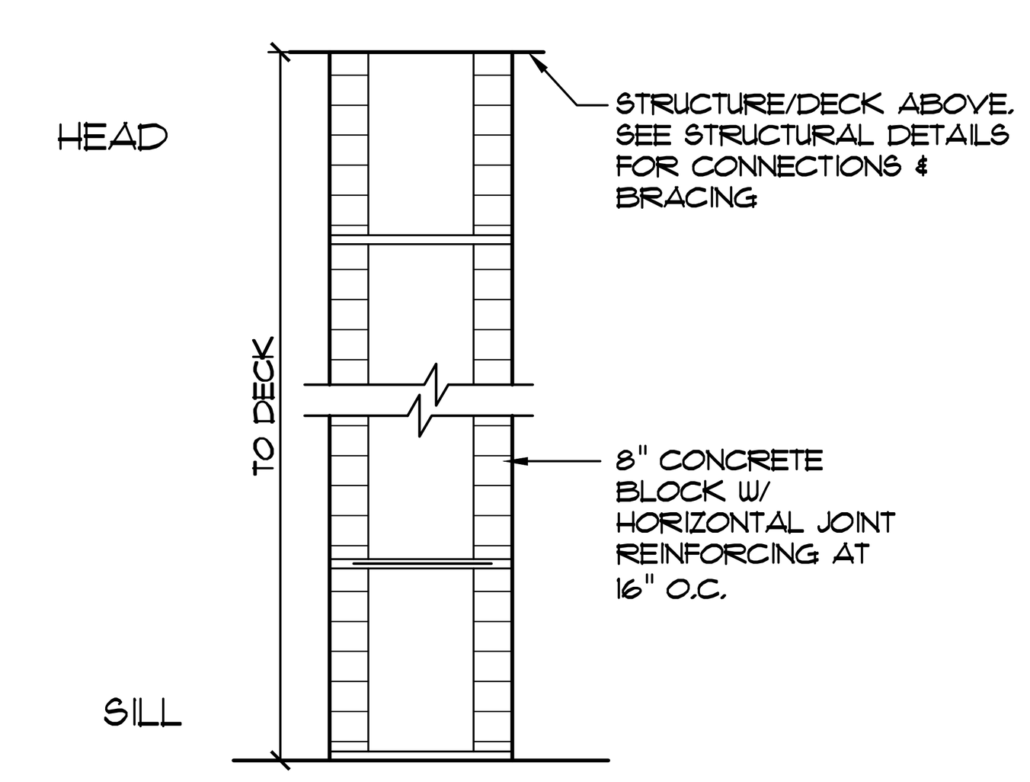




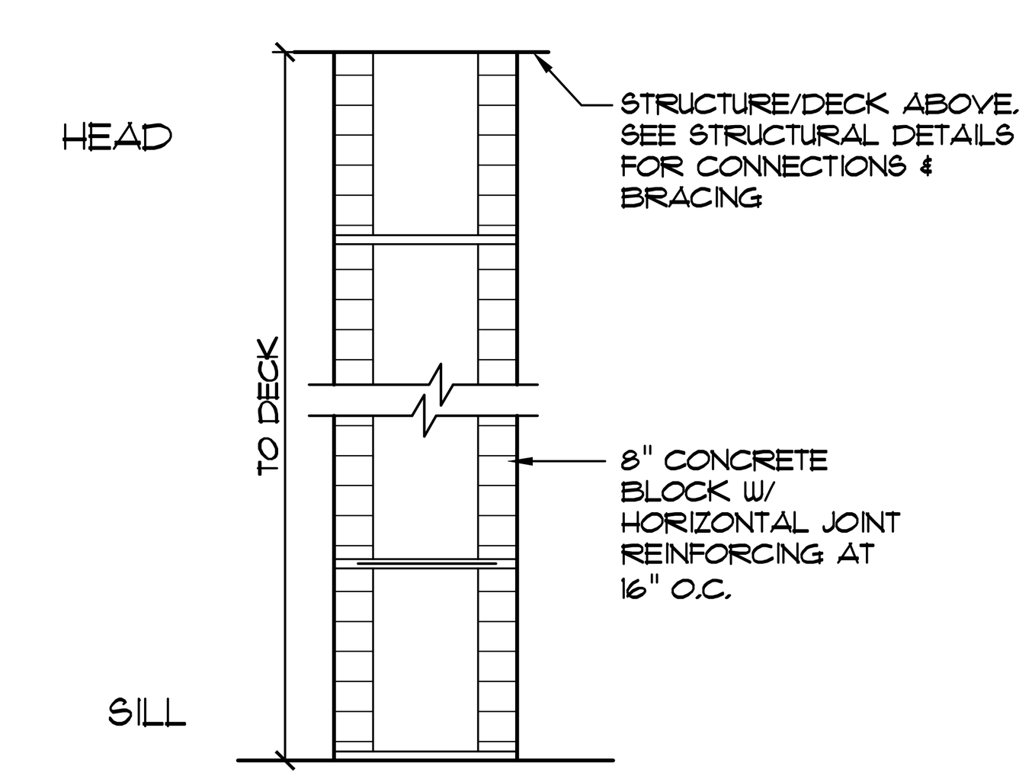


NOTE: ALL PENETRATIONS THROUGH HORIZONTAL ASSEMBLIES, RATED OR NOT, SHALL HAVE THE ANNULAR SPACE FILLED WITH AN APPROVED MATERIAL TO RESIST THE FREE PASSAGE OF FLAME AND THE PRODUCTS OF COMBUSTION.

WALL TYPES



A FIRE RATING : N/A



B FIRE RATING : 2 HR
UL DESIGN #905

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CLASSROOM ADDITION TO LEWISBURG ELEMENTARY SCHOOL

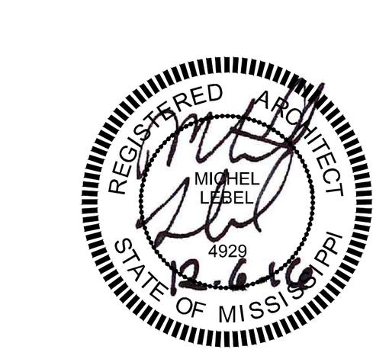
1717 Craft Road
Olive Branch, MS 38654

Desoto County School District

5 East South Street, Hernando, Mississippi 38632

WALL TYPES, ABBREVIATIONS, ARCHITECTURAL SYMBOLS, AND PENTRATIONS

JOB NO: 62556
DATE: 12.06.16
DRAWN: NS
CHECKED: MHL
CAD FILE:



LEWISBURG ELEMENTARY
A0.1

BUILDING DATA

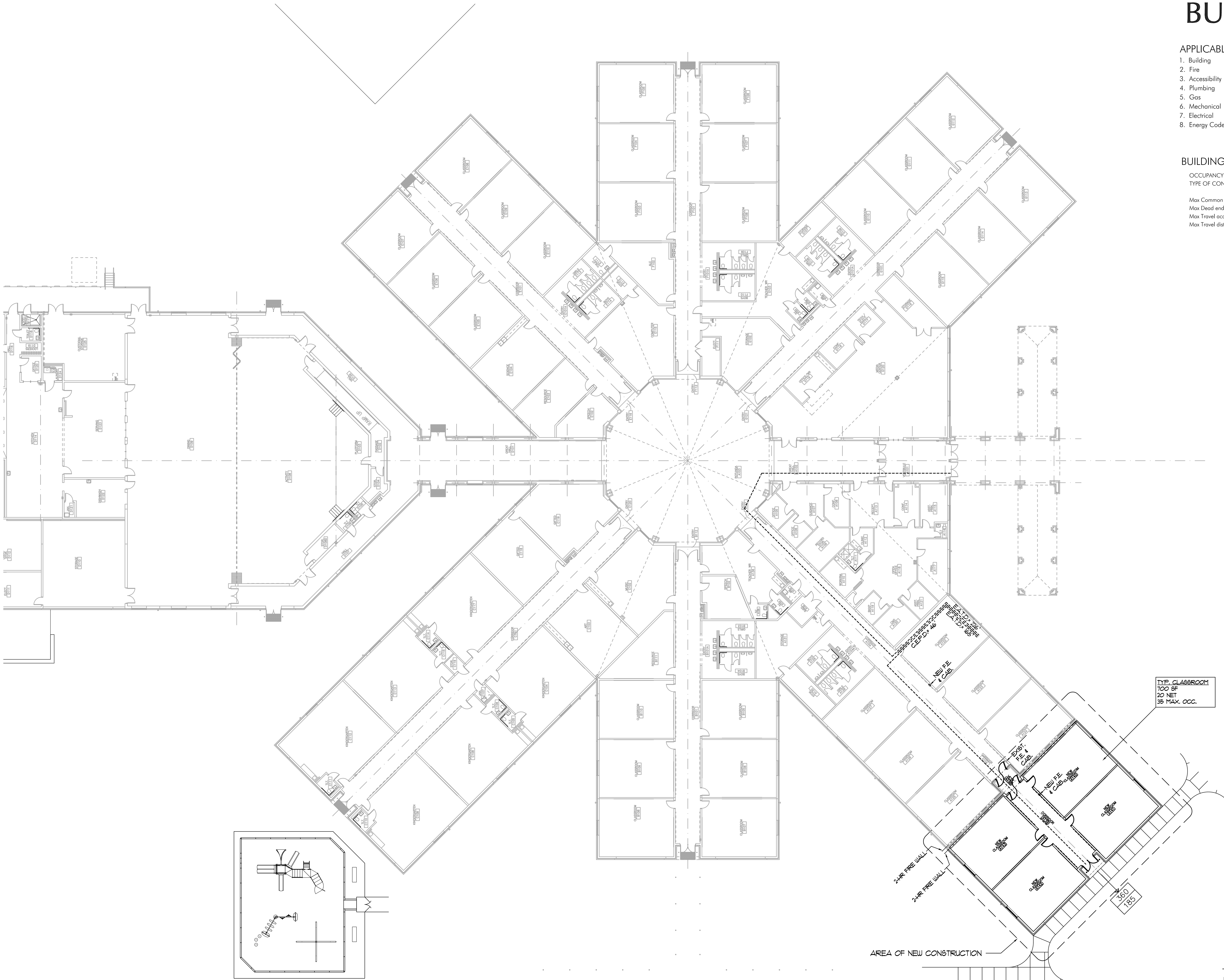
APPLICABLE CODES FOR DESOTO COUNTY, MS

1. Building	2012	International Building Code
2. Fire	2012	International Fire Code
3. Accessibility	2010	ADA Standards for Accessible Design
4. Plumbing	2012	International Plumbing Code
5. Gas	2012	International Fuel Gas Code
6. Mechanical	2012	International Mechanical Code
7. Electrical	2011	National Electric Code
8. Energy Code	2010	ASHRAE 90.1 - 2010 (State Mandate)

BUILDING CODE ANALYSIS SUMMARY

OCCUPANCY CLASSIFICATION: Group E - Educational
TYPE OF CONSTRUCTION: IIB - Sprinkled

Max Common path of travel = 75'-0"
Max Dead end corridor = 20'-0"
Max Travel access distance per floor = 250'-0"
Max Travel distance to Fire Extinguisher = 75'-0"



LEGEND:

180	MAXIMUM CAPACITY OF EXIT DOOR
99	CALCULATED EGRESS REQUIREMENTS
F.E. CAB	FIRE EXTINGUISHER IN CABINET
(line symbol)	2-HR FIRE-RATED WALLS
E.A.T.D.	EXIT ACCESS TRAVEL DISTANCE
C.E.P.D.	COMMOM EXIT PATH DISTANCE

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

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BUILDING DATA AND
LIFE SAFETY PLAN

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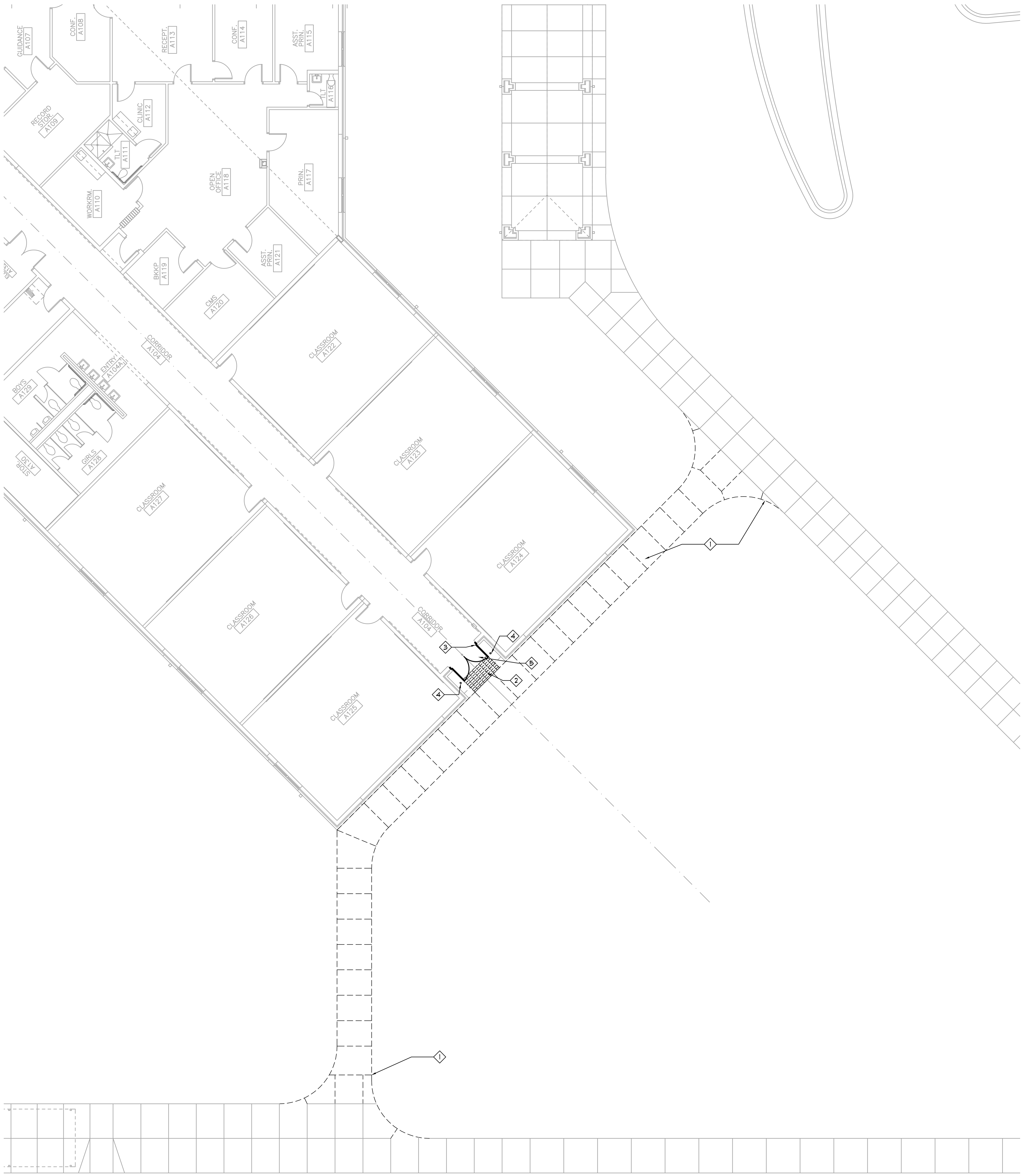
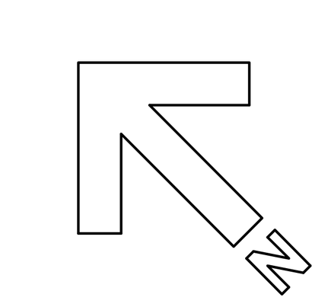


GENERAL DEMOLITION NOTES:

1. SEE CIVIL DRAWINGS FOR SITE DEMOLITION
2. CONTRACTOR SHALL REMOVE AND REINSTALL EXISTING CEILING TILE AND GRID AS NECESSARY TO FACILITATE NEW AND DEMO WORK. ANY EXISTING MATERIALS DAMAGED DURING THE WORK SHALL BE REPLACED AT CONTRACTORS EXPENSE.
3. PATCH, PAINT, AND FILL TO MATCH EXISTING WALLS, CEILINGS, AND FLOORS WHERE DAMAGED BY THE REMOVAL OF EXISTING MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT AND LINES. CONTRACTOR TO PROVIDE WALL TOUCH-UP PAINT TO ALL AREAS WHERE MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT AND LINES/CONDUITS ARE REMOVED. LARGER AREAS ARE IDENTIFIED ON PLANS BUT SMALLER AREAS ARE NOT.
4. PROVIDE TRANSITION BETWEEN NEW AND EXISTING WORK. PATCH AND RESTORE CONSTRUCTION AT TRANSITION AREAS DAMAGED BY CONSTRUCTION/DEMOLITION WITH MATERIALS OF TYPE AND QUALITY EQUAL TO ADJACENT FINISHES.
5. PROTECT THE PUBLIC AT ALL TIMES FROM POTENTIAL CONSTRUCTION HAZARDS. SECURE AND CONTROL ACCESS TO WORK AREAS.
6. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS NECESSARY FOR THE PROPER EXECUTION OF THE WORK.
7. RESTORE ALL DAMAGE TO BUILDING OR SITE CAUSED DURING CONSTRCTION TO ITS CONDITON PRIOR TO THE START OF CONSTRUCTION.
8. CONTROL NOISE. CONTAIN ALL DUST AND LEGALLY DISPOSE OF ALL CONSTRUCTION DEBRIS AND MATERIAL REMOVED THAT IS NOT SALVAGED. CONFORM TO ALL CITY CONSTRUCTION REQUIREMENTS.
9. WHILE THE DRAWINGS ARE GENERALLY PRODUCED AT CONVENTIONAL SCALES, WRITTEN DIMENSIONS SUPERCEDE SCALE. DIMENSIONS GIVEN ARE APPROXIMATE AND DO NOT RELIEVE CONTRACTOR FROM MEASURING ACTUAL CONDITONS IN THE FIELD FOR BIDDING PURPOSES.
10. ALL EXISTING INTERIOR AND EXTERIOR WALLS OF THE EXISTING SCHOOL ARE MASONRY. ASSUME ALL INTERIOR MASONRY WALLS GO TO DECK. TYPICAL CEILING HEIGHT FOR CLASSROOMS IS 9'-0" - 10'-0.

DEMOLITION KEYNOTES:

1. REMOVE PORTIONS OF EXISTING CONCRETE SIDEWALK AS REQUIRED AND AS SHOWN TO ACCOMPLISH NEW CONSTRUCTION. BEGIN DEMO AT EXISTING EXPANSION JOINT OR SAWCUT SIDEWALK. SEE CIVIL DRAWINGS.
2. REMOVE EXISTING RECESSED METAL GRATE SHOE SCRAPER AND CONC. SLAB
3. REMOVE EXISTING DOOR FRAME AND THRESHOLD AND PREP EXISTING OPENING TO RECEIVE NEW DUAL EGRESS DOOR FRAME
4. REMOVE EXISTING METAL DOOR BUMPER POSTS
5. REMOVE EXISTING METAL SOFFIT AND METAL FRAMING ABOVE



PROJECT NORTH

A1 **DEMOLITION FLOOR PLAN**

1/8" = 1'-0"

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No.	Revision	Date

DEMOLITION FLOOR PLAN

JOB NO: 62556
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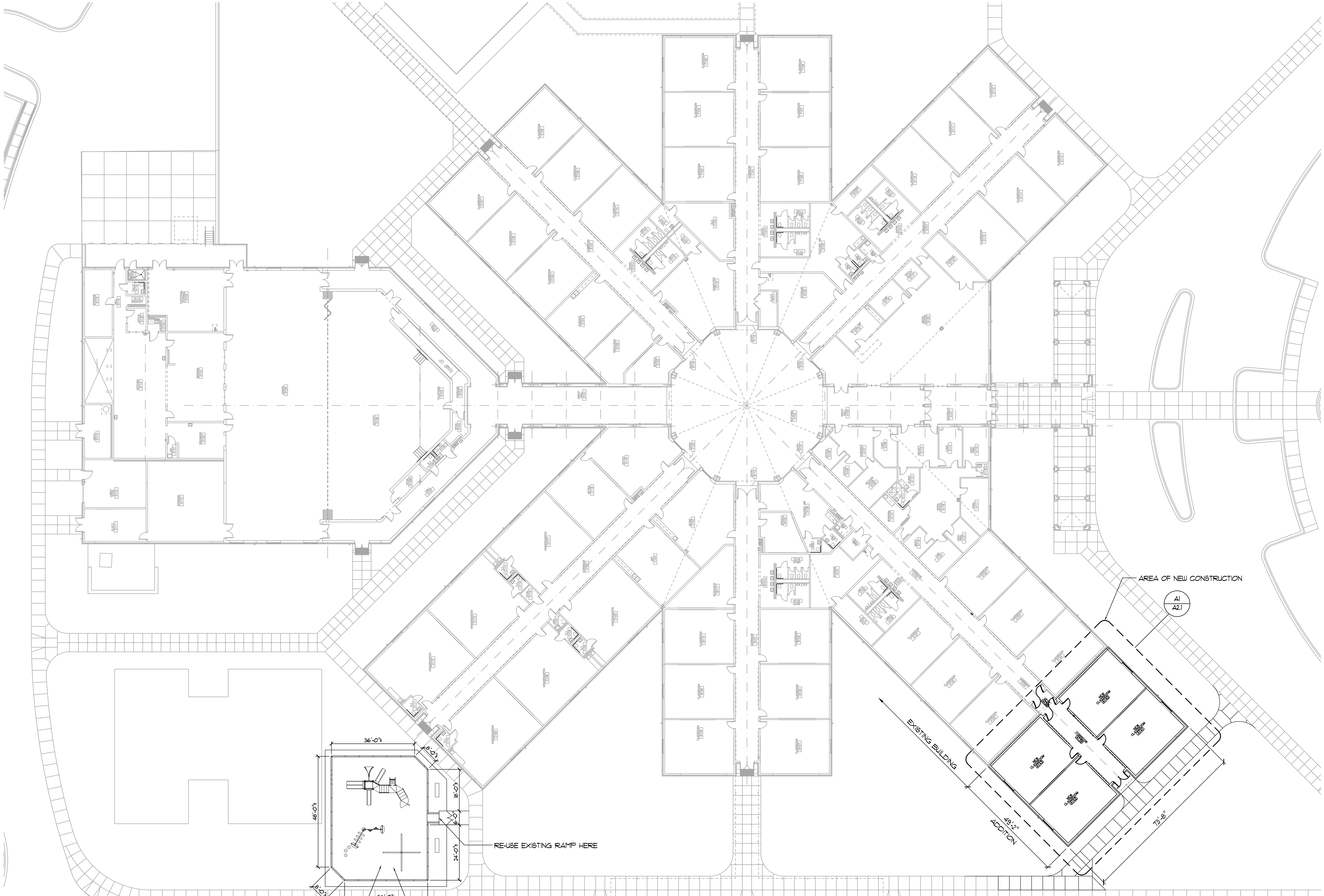
DRAWN: NS
CHECKED: MHL
CAD FILE:

LEWISBURG ELEMENTARY
AD1.1



NOTE:
THIS IS THE NEW LOCATION FOR THE PLAYGROUND BEING RELOCATED FROM THE PRIMARY SCHOOL LOCATION SOUTH OF THE DRIVE. THE WORK TO RELOCATE THE PLAYGROUND IS PART OF THE PRIMARY SCHOOL ADDITION PACKAGE. RE-CONFIGURE EXISTING MODULAR BORDER PIECES TO NEW CONFIGURATION SHOWN AND PROVIDE NEW FOOTINGS FOR PLAY EQUIPMENT IN "LIKE KIND" TO EXISTING. REPLACE ANY PARTS DAMAGED DURING RELOCATION WITH NEW PARTS AND INSURE THAT FINAL INSTALLATION IS ACCEPTED BY OWNER AS "SAFE TO PLAY" FOR STUDENTS. SEE CIVIL DRAWINGS.

A1 **COMPOSITE FLOOR PLAN**

1/16" = 1'-0"

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COMPOSITE FLOOR PLAN

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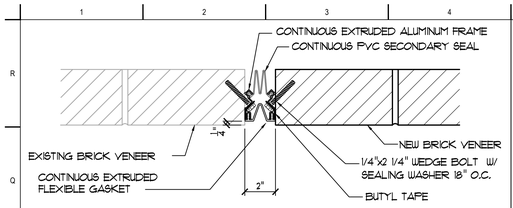
DRAWN: NS
CHECKED: MHL
CAD FILE:

REGISTERED ARCHITECT MICHEL LEBEL STATE OF MISSISSIPPI

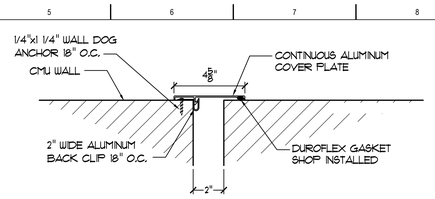
LEWISBURG ELEMENTARY
A1.1



NOTE:
EXPANSION JOINT TO BE CS GROUP SF200 OR EQUAL AND INCLUDES ALL PARTS AND PIECES FOR A COMPLETE WEATHER TIGHT INSTALLATION

P1 EXTERIOR EXPANSION JOINT DETAIL

3" = 1'-0"



NOTE:
EXPANSION JOINT TO BE CS GROUP ASM200 OR EQUAL AND INCLUDES ALL PARTS AND PIECES FOR A COMPLETE INSTALLATION

P5 INTERIOR EXPANSION JOINT DETAIL

3" = 1'-0"

FLOOR PLAN NOTES

1. EXPANSION JOINT. SEE DETAIL P1/A2.1
2. NEW 16'-0" x 4'-0" WHITE BOARD AND PROJECTOR. COORDINATE EXACT LOCATION W/ ARCHITECT & OWNER
3. NEW 16' MAP RAIL, MOUNTED AT 7'-4" A.F.F.
4. NEW 12' MAP RAIL, MOUNTED AT 7'-4" A.F.F.
5. NEW 4' x 8' TACK BOARD, COORDINATE EXACT LOCATION W/ ARCHITECT & OWNER
6. NEW FIRE EXTINGUISHER AND CABINET
7. EXPANSION JOINT. SEE DETAIL P5/A2.1

PROJECT NORTH

A1 ENLARGED FLOOR PLAN

1/8" = 1'-0"

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ENLARGED FLOOR PLAN

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DRAWN: NS
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CAD FILE:

LEWISBURG ELEMENTARY
A2.1

REFLECTED CEILING LEGEND

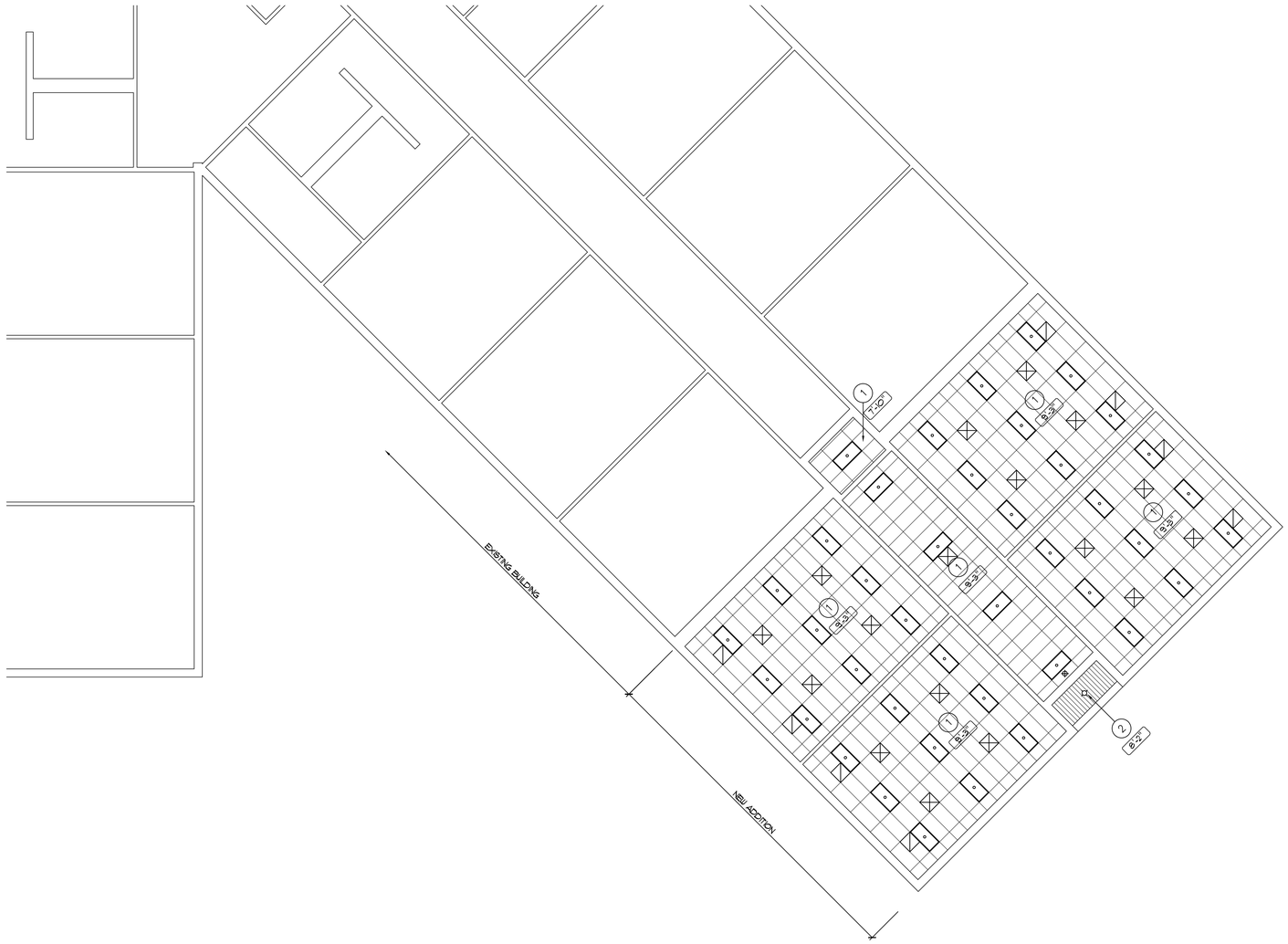
- SUSPENDED ACOUSTICAL TILE CEILING SYSTEM
- HVAC RETURN / SUPPLY GRILLE
- LAY-IN / RECESSED 2'x4' FLUORSCENT LIGHT
- LAY-IN / RECESSED 1'x4' FLUORSCENT LIGHT
- SURFACE FLUORSCENT LIGHT STRIP
- RECESSED CAN LIGHT
- EXIT LIGHT, CEILING MOUNTED
- AUTOMATIC SPRINKLER HEAD
- SUSPENDED LIGHT (PENDANT OR CHANDLER)
- 9'-0" NEW CEILING HEIGHT ABOVE FINISHED FLOOR

GENERAL NOTES FOR NEW CEILING WORK:

1. REFERENCE MECHANICAL DRAWINGS FOR MECHANICAL AIR DEVICES INCLUDING CEILING GRILLES AND DIFFUSERS.
2. REFERENCE ELECTRICAL DRAWINGS FOR LIGHTING
3. REFERENCE FIRE PROTECTION DRAWINGS FOR SPRINKLER SYSTEM.

KEYNOTES (THESE NOTES APPLY TO THIS SHEET ONLY)

1. SUSPENDED ACOUSTICAL TILE CEILING SYSTEM
2. METAL SOFFIT PANEL = MBCI 1" ARTISIAN



A1 PARTIAL REFLECTED CEILING PLAN

1/8" = 1'-0"

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REFLECTED CEILING PLAN

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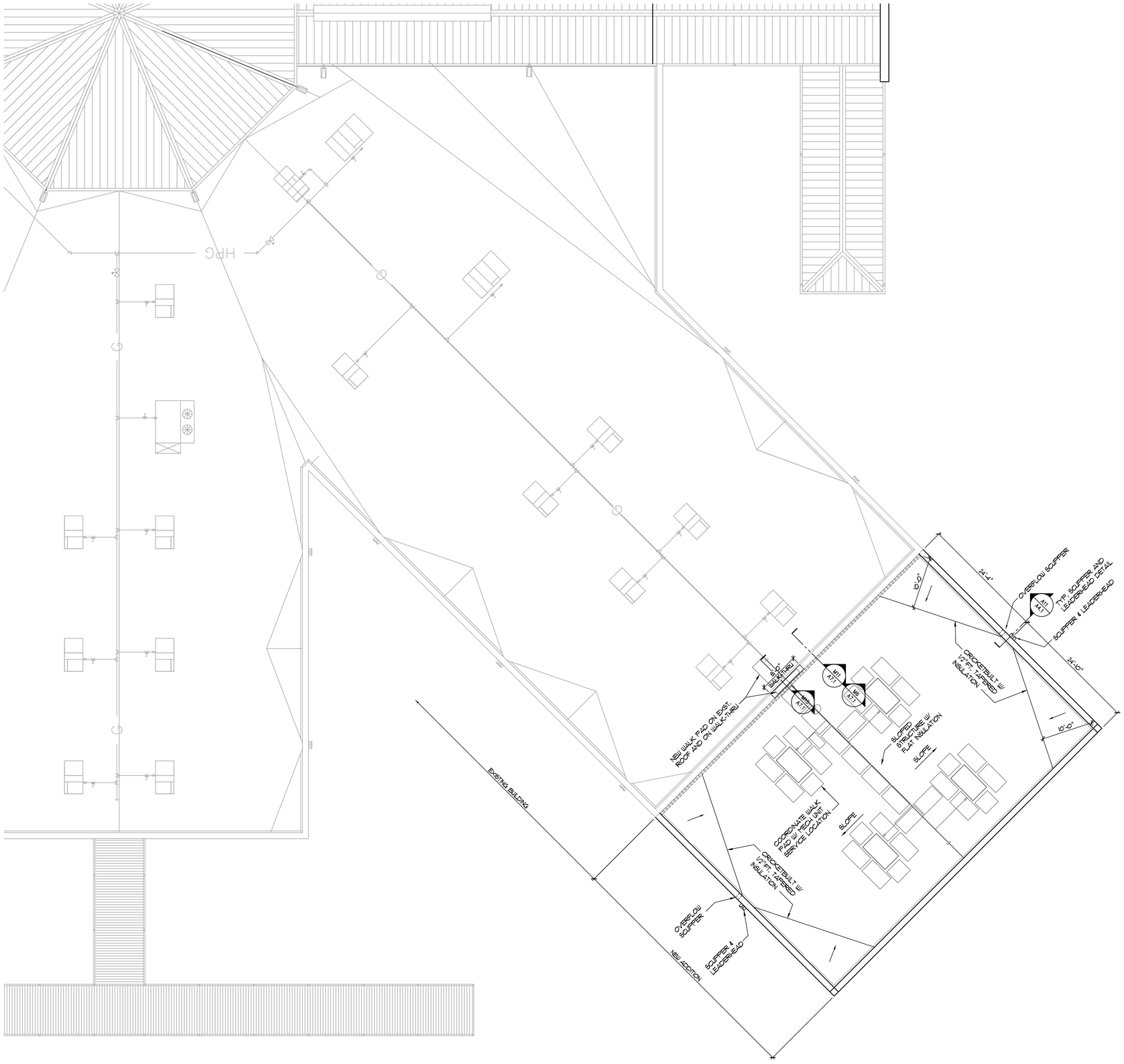
CHECKED: MHL
CAD FILE:

REGISTERED ARCHITECT MICHEL H. LEBEL STATE OF MISSISSIPPI 12.7.16

LEWISBURG ELEMENTARY
A3.1



A1 | ROOF PLAN

1/8" = 1'-0"

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ROOF PLAN

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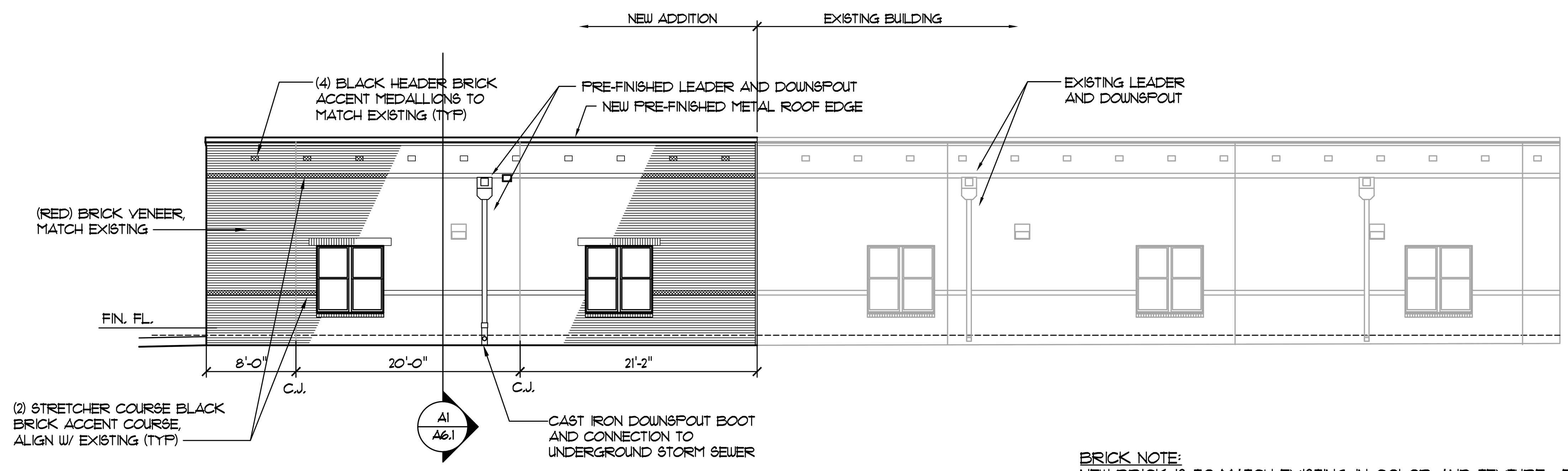
DRAWN: NS
CHECKED: MHL
CAD FILE:

REGISTERED ARCHITECT MICHEL H. LEBELL STATE OF MISSISSIPPI

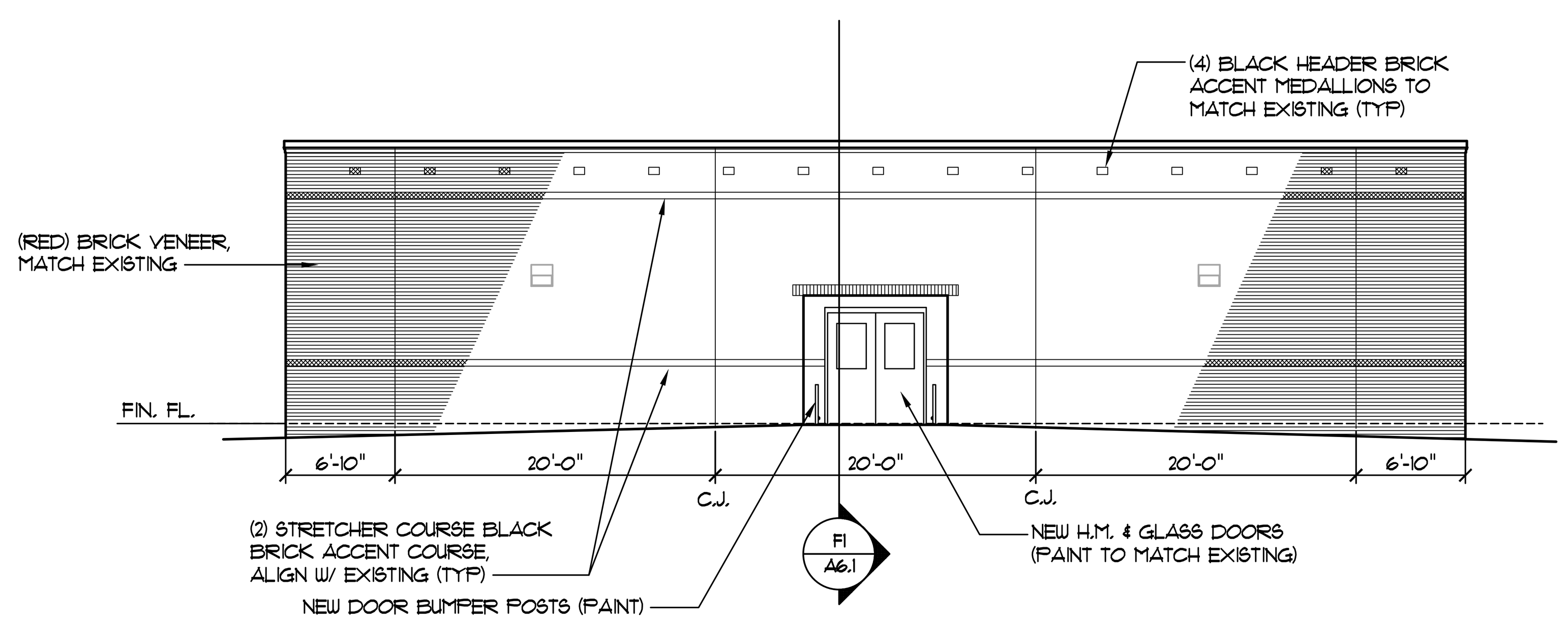
LEWISBURG ELEMENTARY
A4.1



BRICK NOTE:
NEW BRICK IS TO MATCH EXISTING IN COLOR AND TEXTURE. FOR THE PURPOSE OF THIS DRAWING, THE FIELD BRICK COLOR WILL BE REFERRED TO AS RED BRICK AND THE ACCENT BRICK COLOR WILL BE REFERRED TO AS BLACK.

L1 PARTIAL BUILDING ELEVATION - EAST ELEVATION

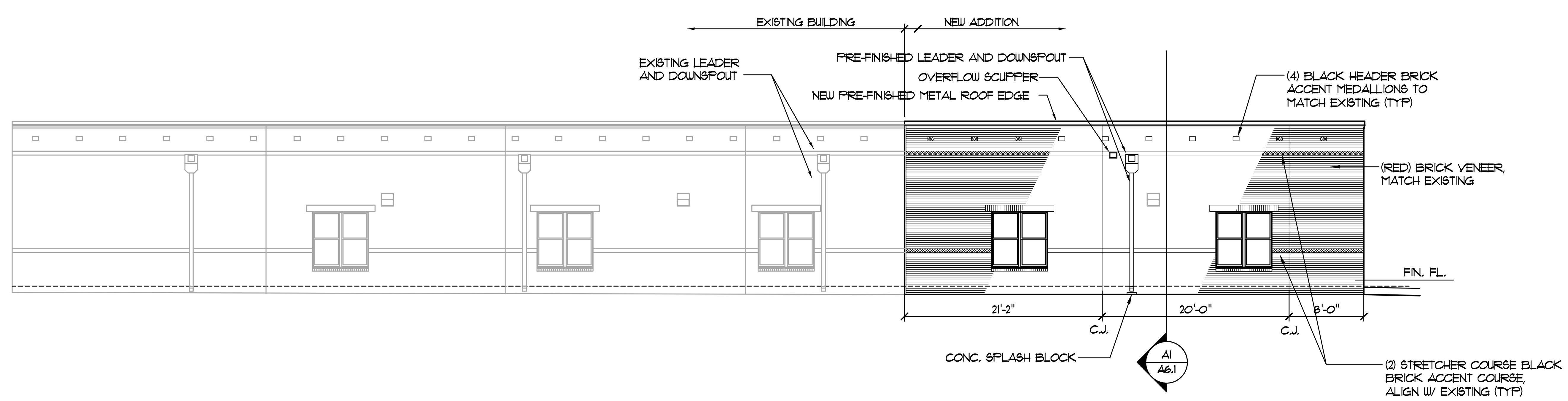
1/8" = 1'-0"



BRICK NOTE:
NEW BRICK IS TO MATCH EXISTING IN COLOR AND TEXTURE. FOR THE PURPOSE OF THIS DRAWING, THE FIELD BRICK COLOR WILL BE REFERRED TO AS RED BRICK AND THE ACCENT BRICK COLOR WILL BE REFERRED TO AS BLACK.

F1 PARTIAL BUILDING ELEVATION - SOUTH ELEVATION

1/8" = 1'-0"



BRICK NOTE:
NEW BRICK IS TO MATCH EXISTING IN COLOR AND TEXTURE. FOR THE PURPOSE OF THIS DRAWING, THE FIELD BRICK COLOR WILL BE REFERRED TO AS RED BRICK AND THE ACCENT BRICK COLOR WILL BE REFERRED TO AS BLACK.

A1 PARTIAL BUILDING ELEVATION - WEST ELEVATION

1/8" = 1'-0"

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BUILDING ELEVATIONS

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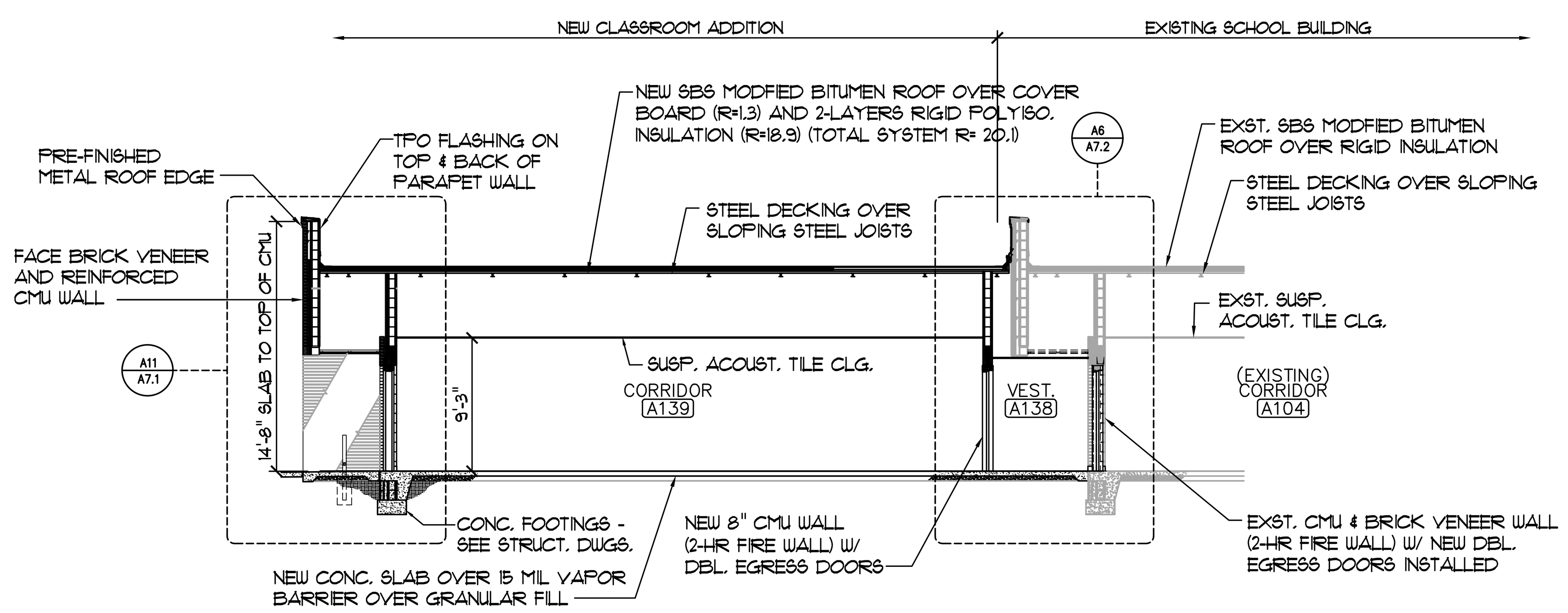
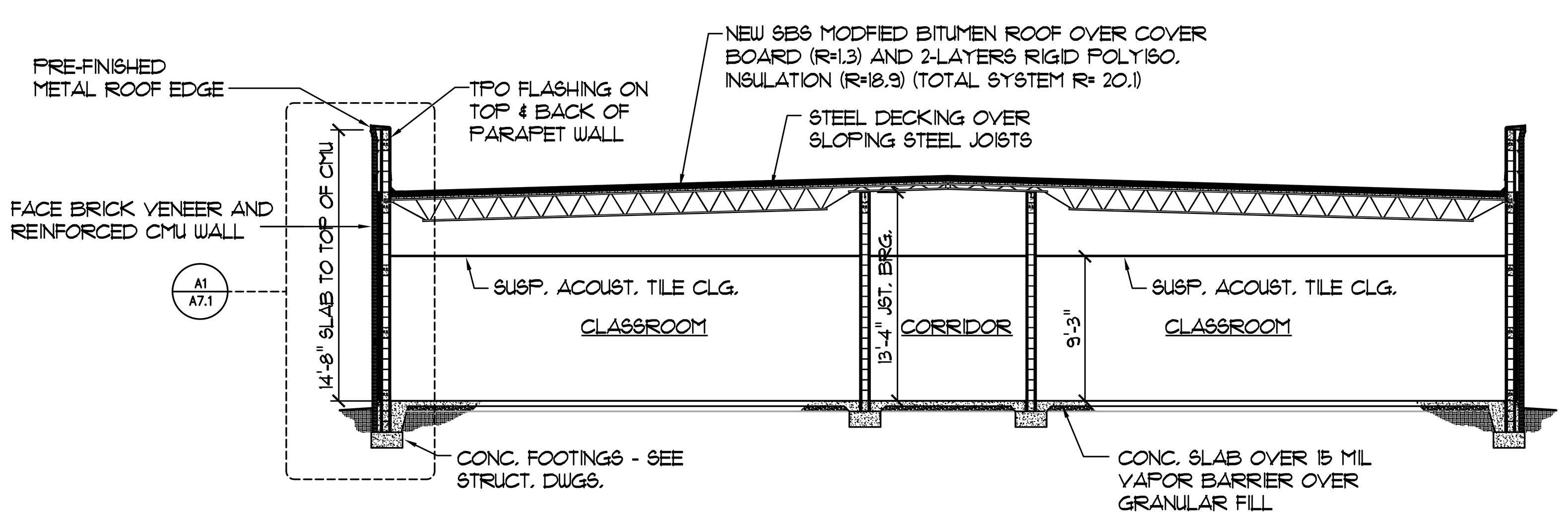
LEWISBURG ELEMENTARY
A5.1



F1 PARTIAL BUILDING SECTION

1/8" = 1'-0"



A1 BUILDING SECTION

1/8" = 1'-0"

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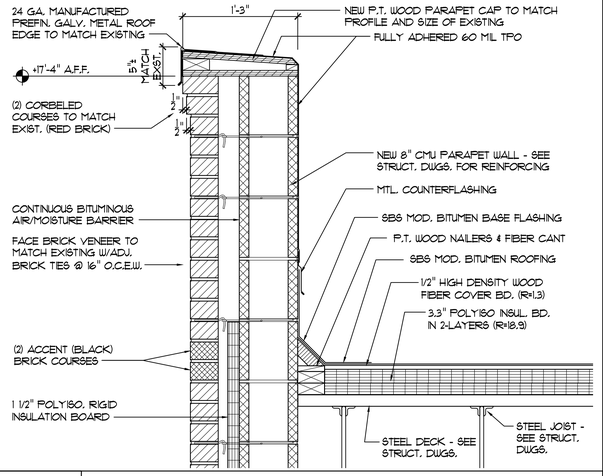
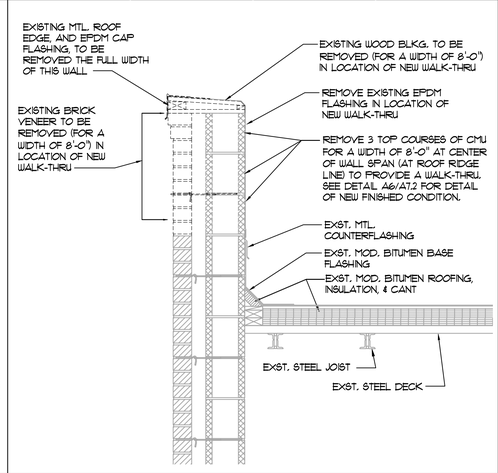
A6.1



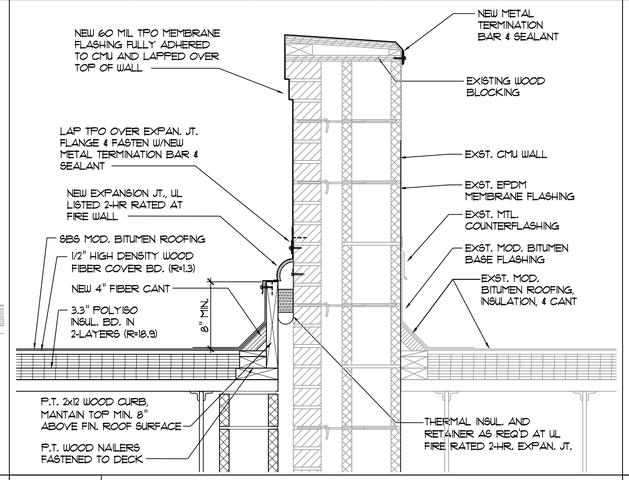
M1 TYP. PARAPET WALL DETAIL

1 1/2" = 1'-0"



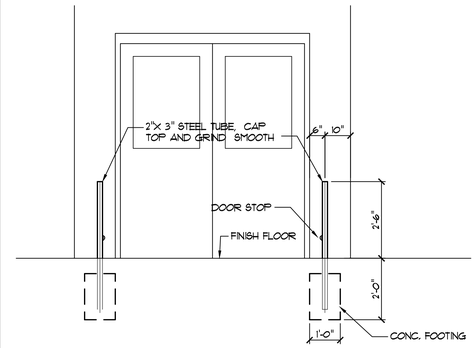
M6 PART. SECT.- DEMO @ WALK-THRU

1" = 1'-0"



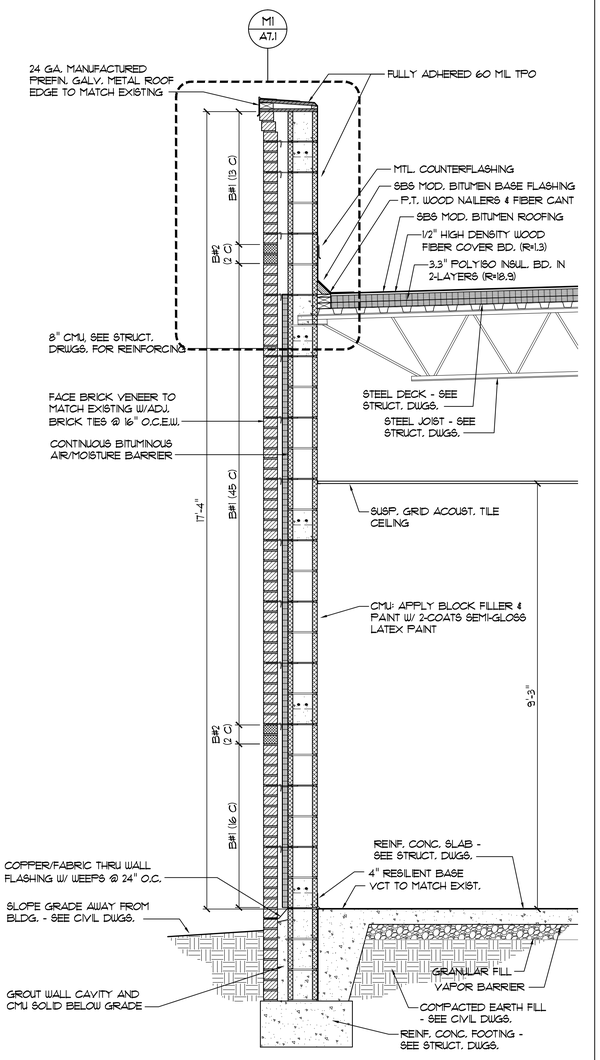
M10 PARAPET / EXPANSION JT. DETAIL

1 1/2" = 1'-0"



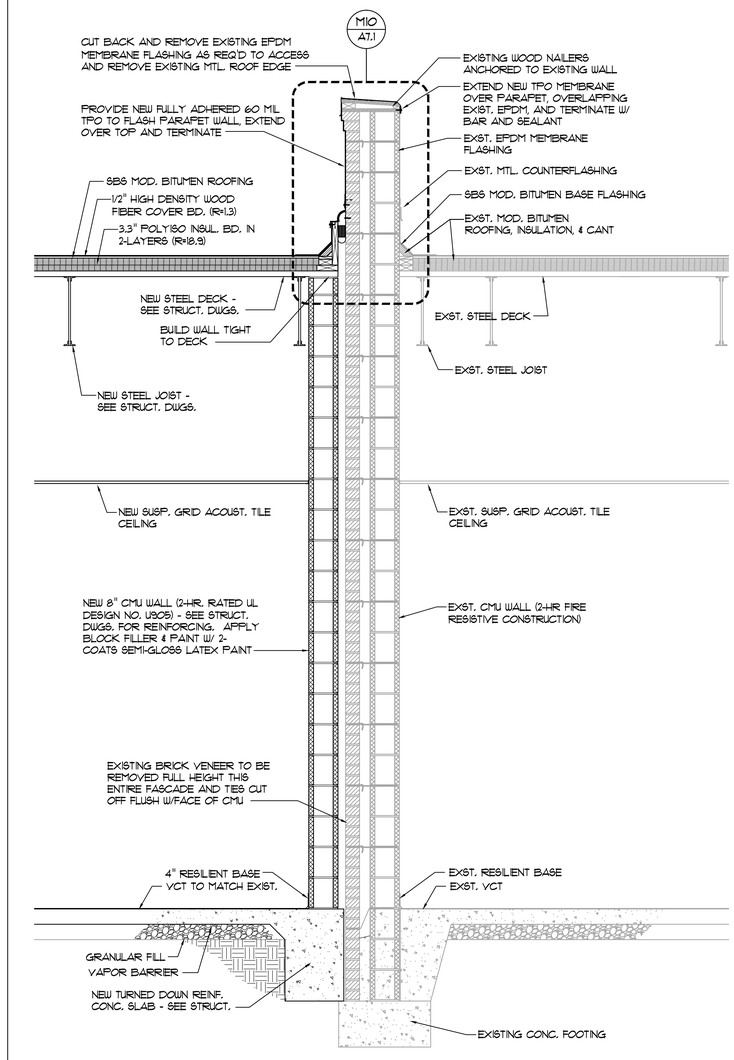
M15 DOOR BUMPER POST DETAIL

1/2" = 1'-0"



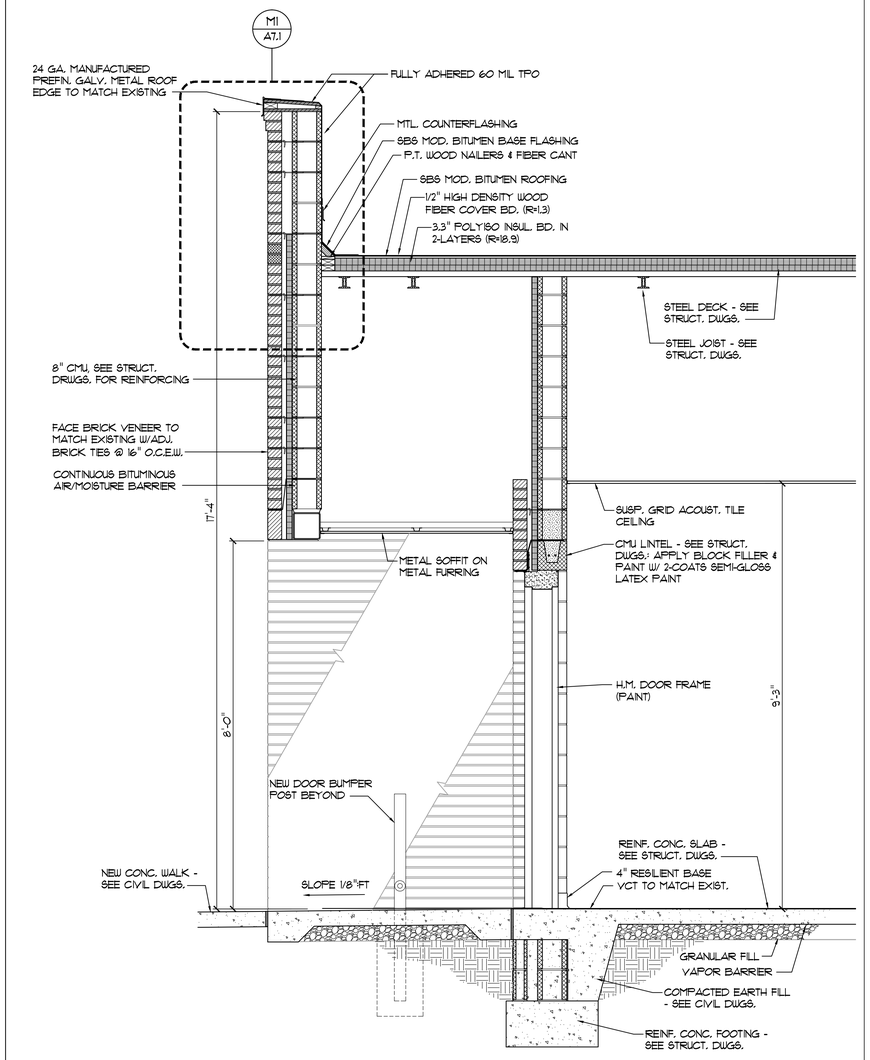
A1 WALL SECTION

3/4" = 1'-0"



A6 WALL SECTION

3/4" = 1'-0"



A11 WALL SECTION

3/4" = 1'-0"

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WALL SECTIONS & DETAILS

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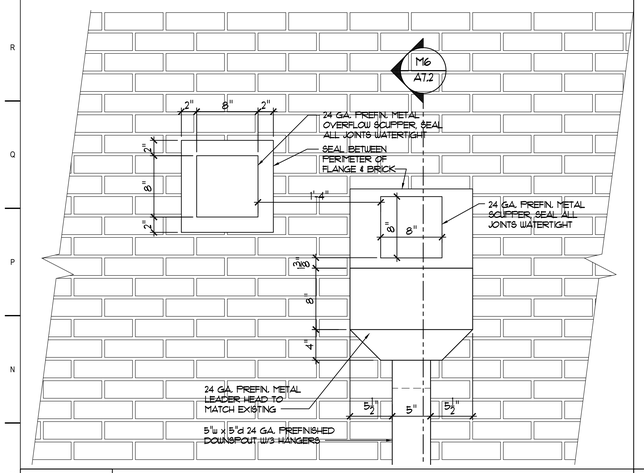
DRAWN:	NS
CHECKED:	MHL
CAD FILE:	

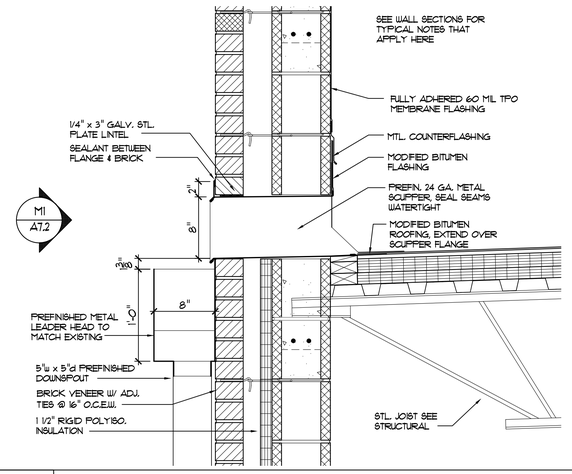
REGISTERED ARCHITECT MICHEL H. LEBEL STATE OF MISSISSIPPI

LEWISBURG ELEMENTARY
A7.1



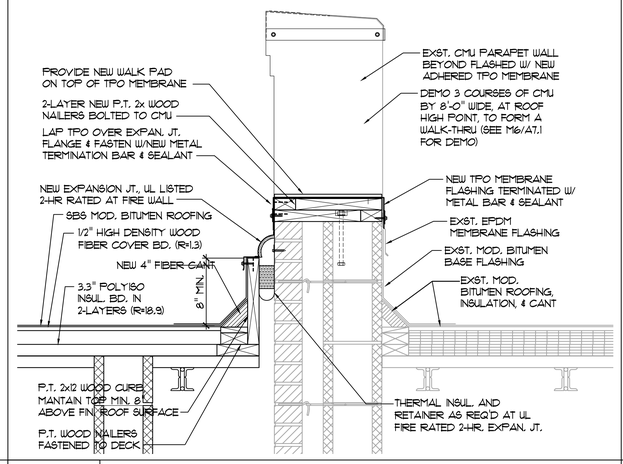
M1 SCUPPER ELEVATION

1 1/2" = 1'-0"



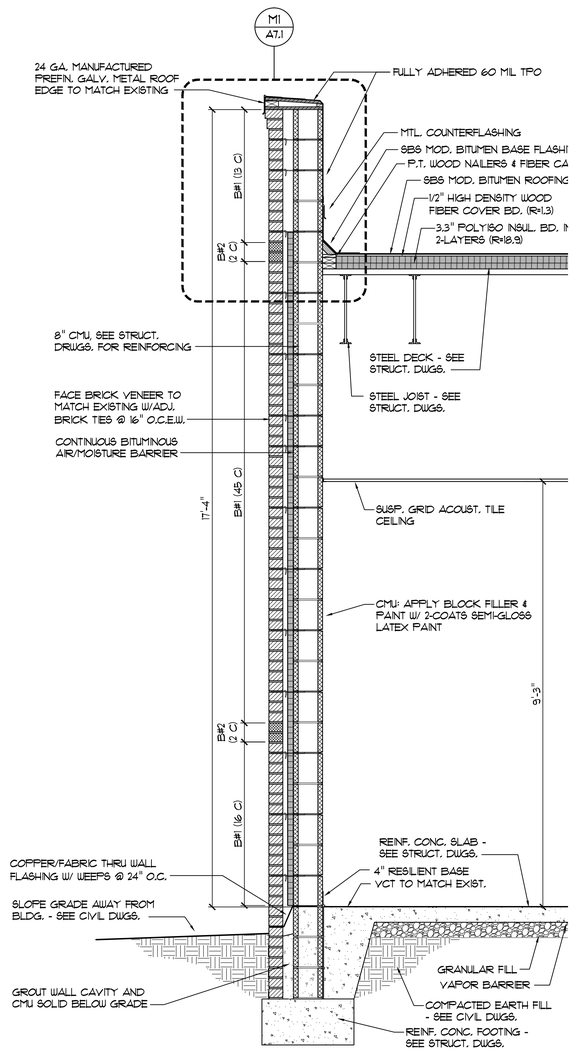
M6 SCUPPER SECTION

1 1/2" = 1'-0"



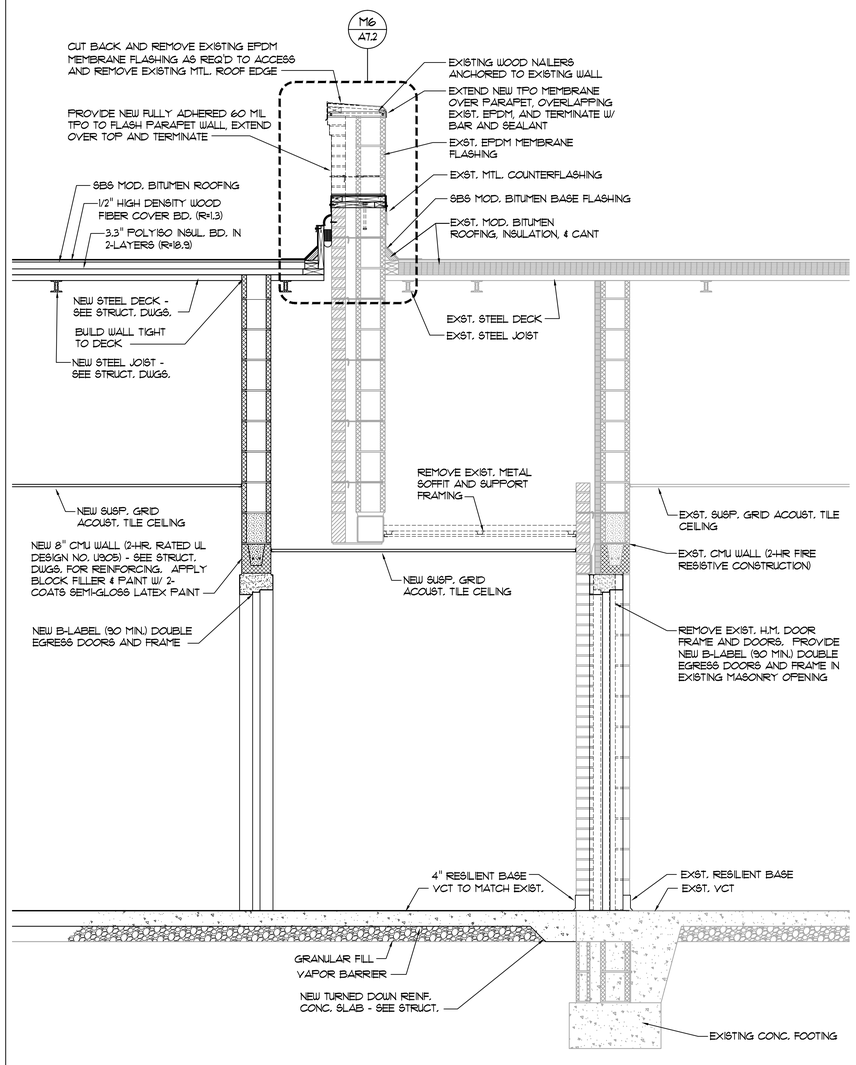
M1 PARAPET WALK-THRU DETAIL

1 1/2" = 1'-0"



A1 WALL SECTION

3/4" = 1'-0"



A6 WALL SECTION

3/4" = 1'-0"

Allen&Hoshall
engineers-architects-surveyors

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CLASSROOM ADDITION TO LEWISBURG ELEMENTARY SCHOOL

1717 Craft Road
Olive Branch, MS 38654

Desoto County School District
5 East South Street, Hernando, Mississippi 38632

No.	Revision	Date

WALL SECTIONS & DETAILS

JOB NO: 62556
DATE: 12.06.16
DRAWN: NS
CHECKED: MHL
CAD FILE:

REGISTERED ARCHITECT MICHEL LEBELL STATE OF MISSISSIPPI

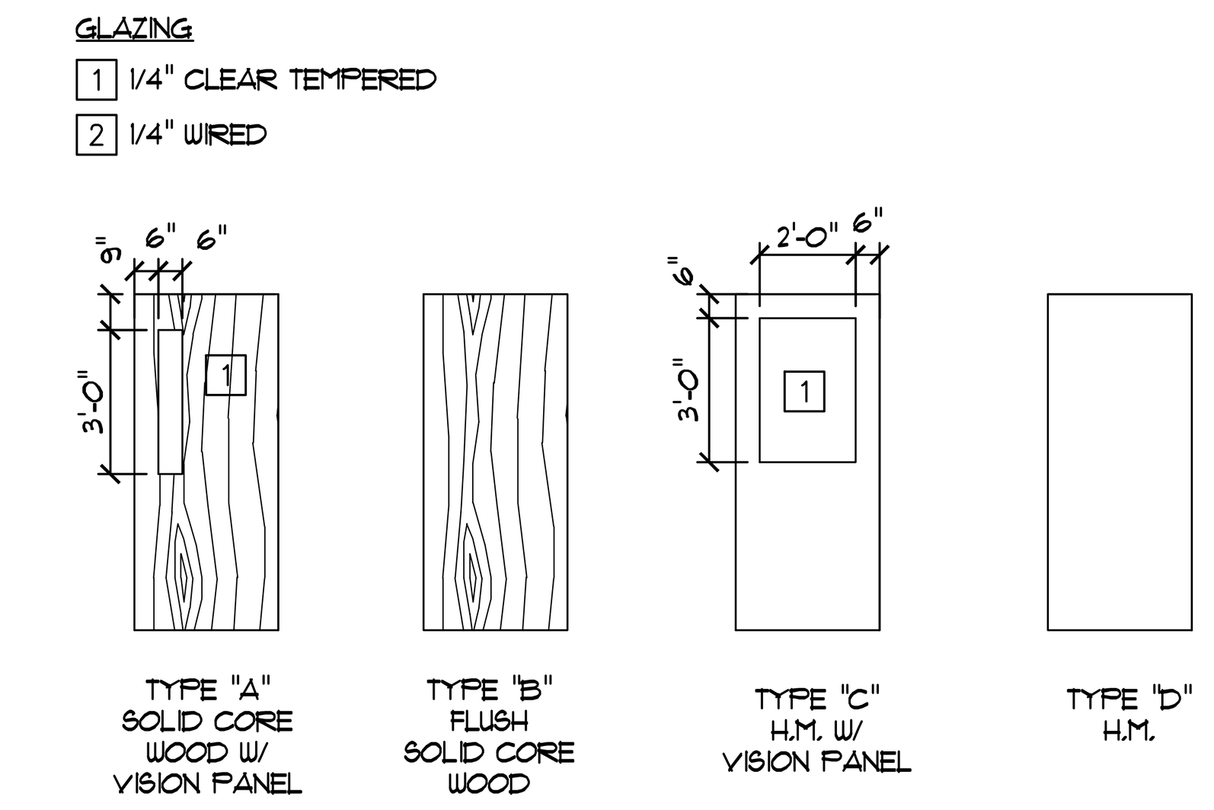
LEWISBURG ELEMENTARY
A7.2

DOOR SCHEDULE

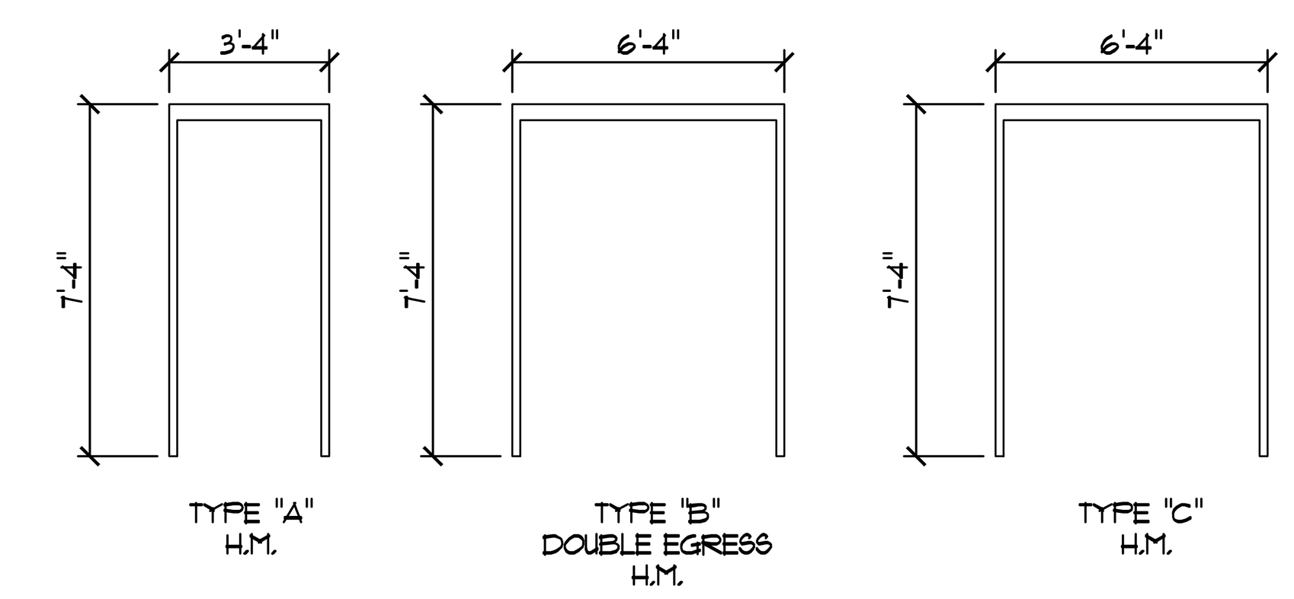
DR. NO.	SIZE	DOOR	FRAME	DR. MAT.	FR. MAT.	HEAD	JAMB	SILL	RATING	HDWARE	REMARKS
A138A	PR. 3'-0" x 7'-0" x 1-3/4"	D	B	H.M.	H.M.	J7	J7		90 MIN.	2	2
A138B	PR. 3'-0" x 7'-0" x 1-3/4"	D	B	H.M.	H.M.	J4	E4		90 MIN.	2	2
A139	PR. 3'-0" x 7'-0" x 1-3/4"	C	B	HM/GLASS	H.M.	J1	E1	A1		1	1
A140	3'-0" x 7'-0" x 1-3/4"	A	A	SCWD/GLASS	H.M.	A4	A7			3	
A141	3'-0" x 7'-0" x 1-3/4"	A	A	SCWD/GLASS	H.M.	A4	A7			3	
A142	3'-0" x 7'-0" x 1-3/4"	A	A	SCWD/GLASS	H.M.	A4	A7			3	
A143	3'-0" x 7'-0" x 1-3/4"	A	A	SCWD/GLASS	H.M.	A4	A7			3	

NOTES:
1. PROVIDE REMOVABLE MULLION. SEE HARDWARE SCHEDULE.
2. DOUBLE EGRESS DOORS. PROVIDE ELECTRIFIED HOLD-OPEN/CLOSER INTER-CONNECTED TO FIRE ALARM TO RELEASE ON ALARM ACTIVATION. - SEE HARDWARE SCHEDULE.

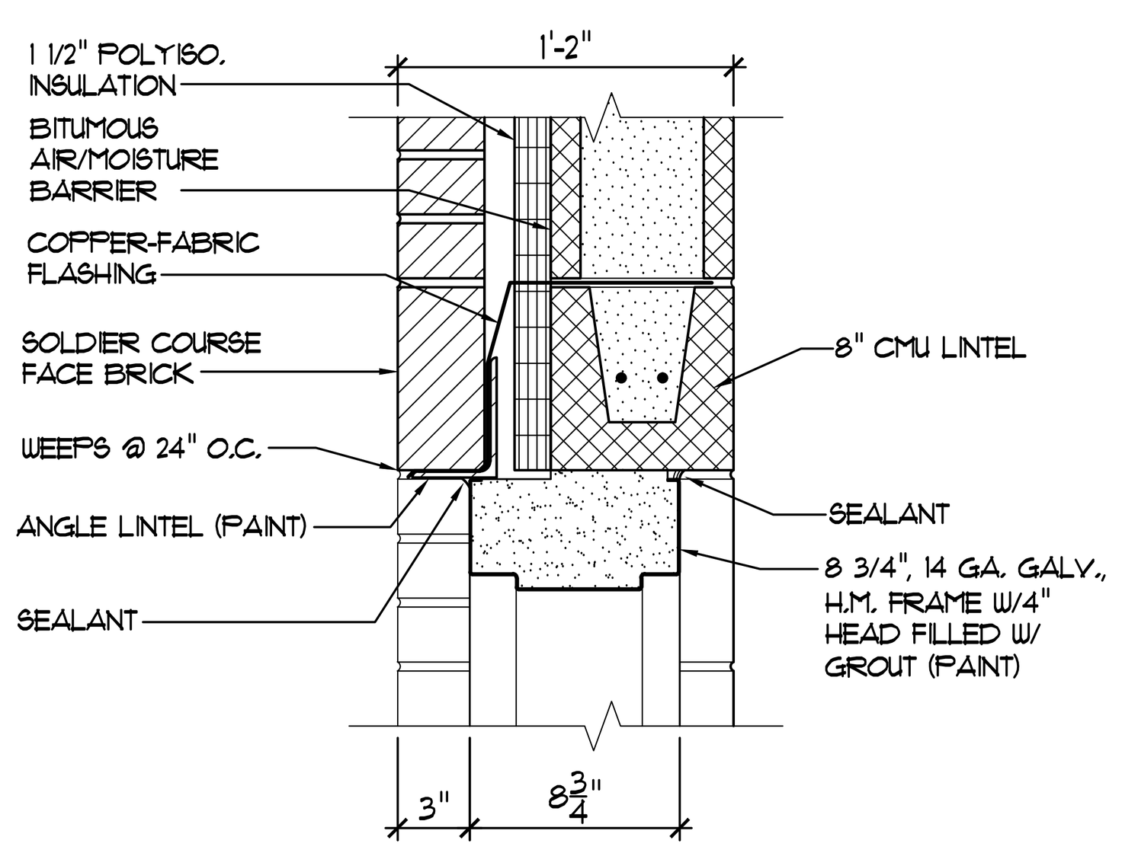
N1 DOOR SCHEDULE
NO SCALE



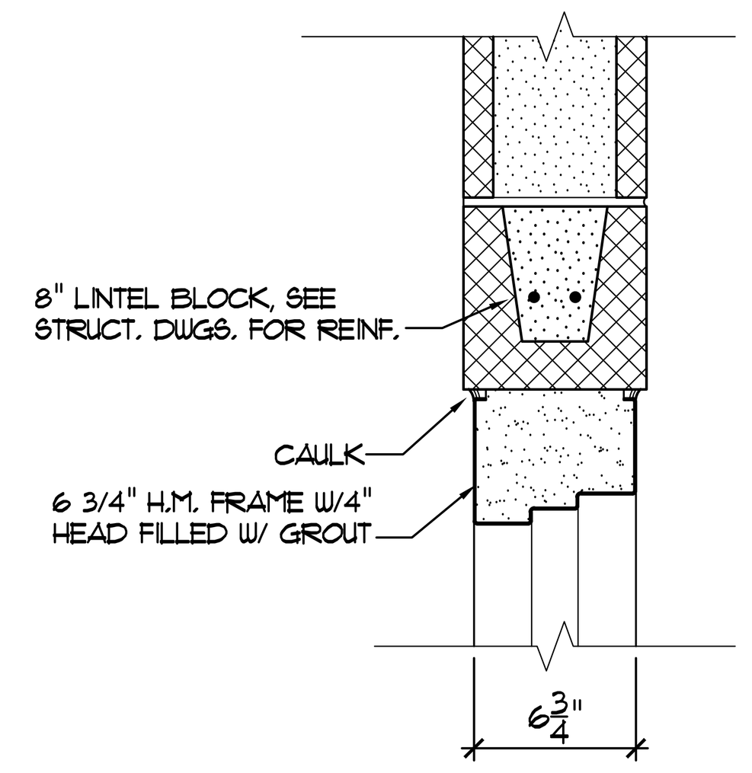
N11 DOOR TYPE
1/4" = 1'-0"



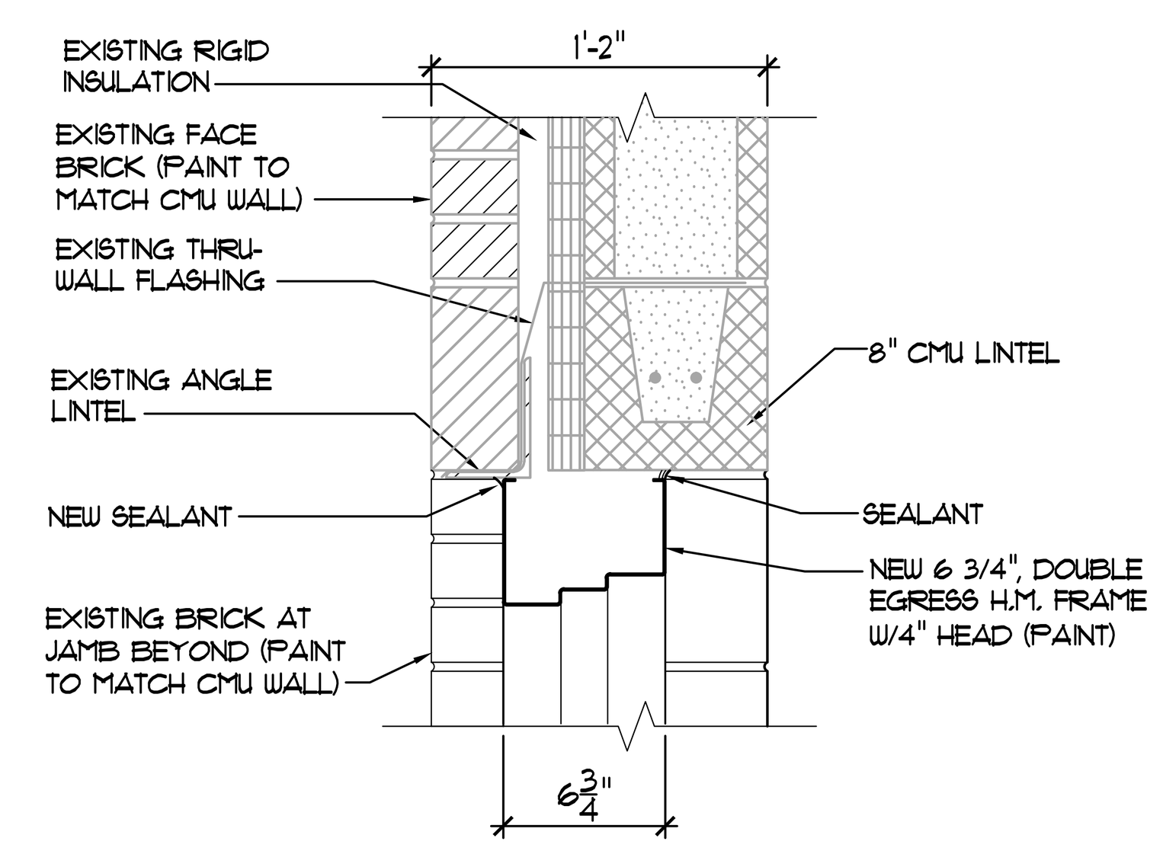
N15 DOOR FRAME ELEVATIONS
1/4" = 1'-0"



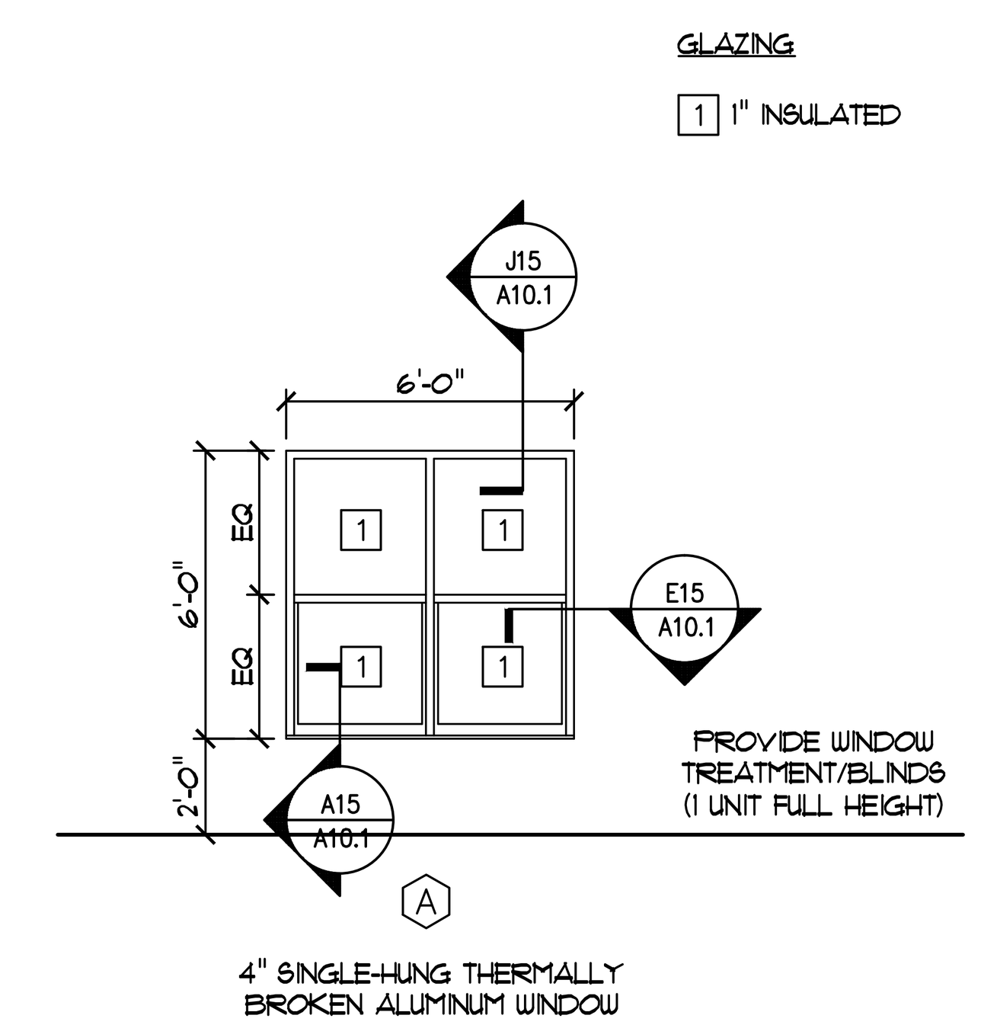
J1 DOOR HEAD
1 1/2" = 1'-0"



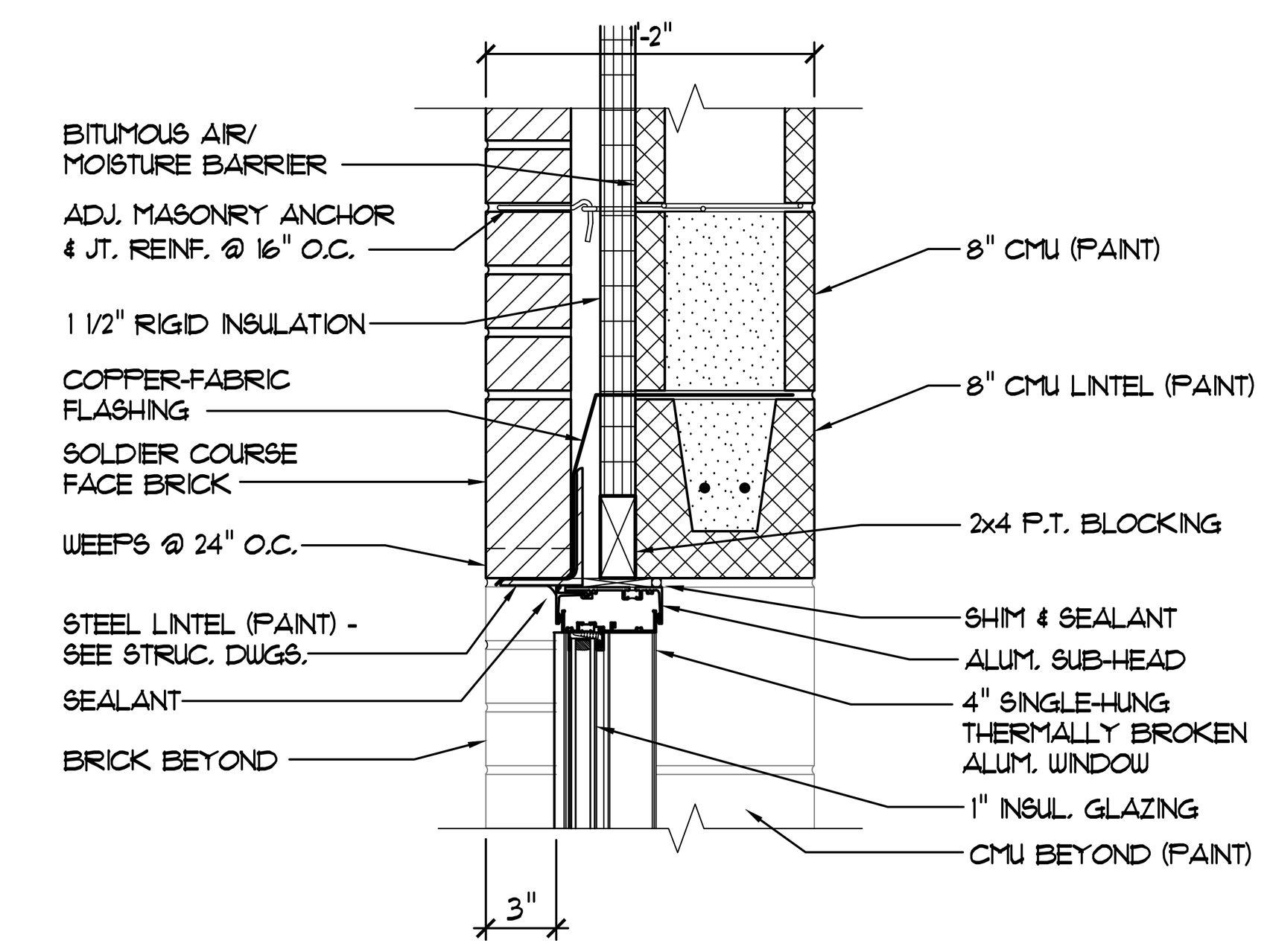
J4 DOOR HEAD
1 1/2" = 1'-0"



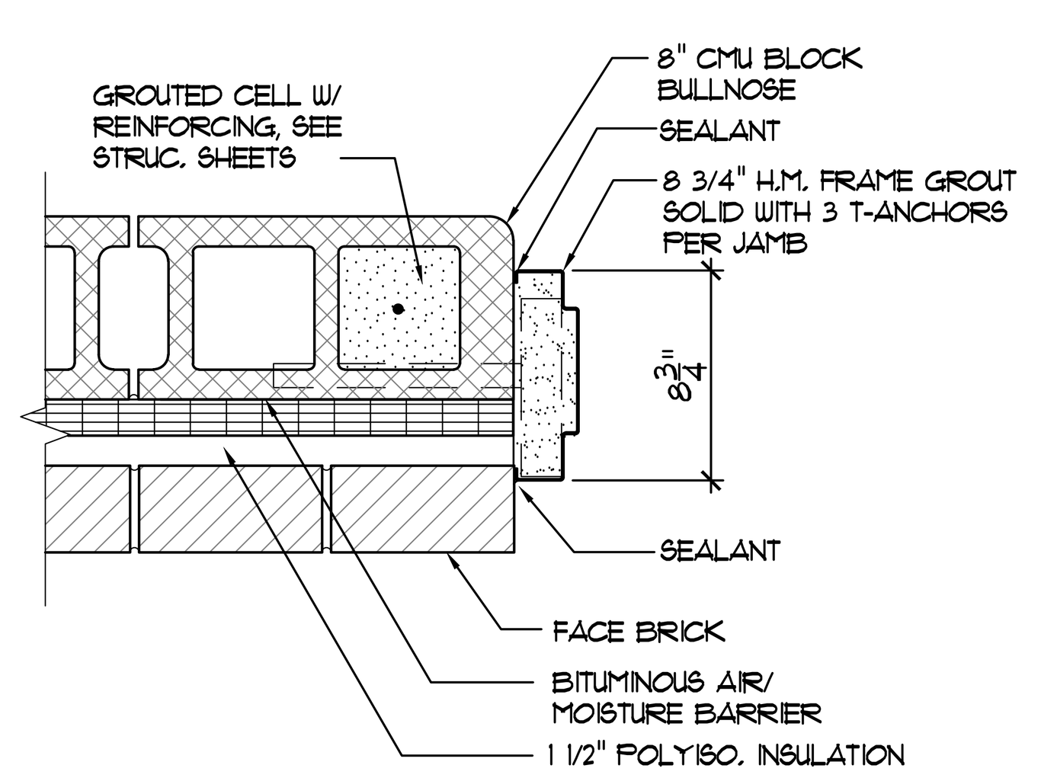
J7 DOOR JAMB
1 1/2" = 1'-0"



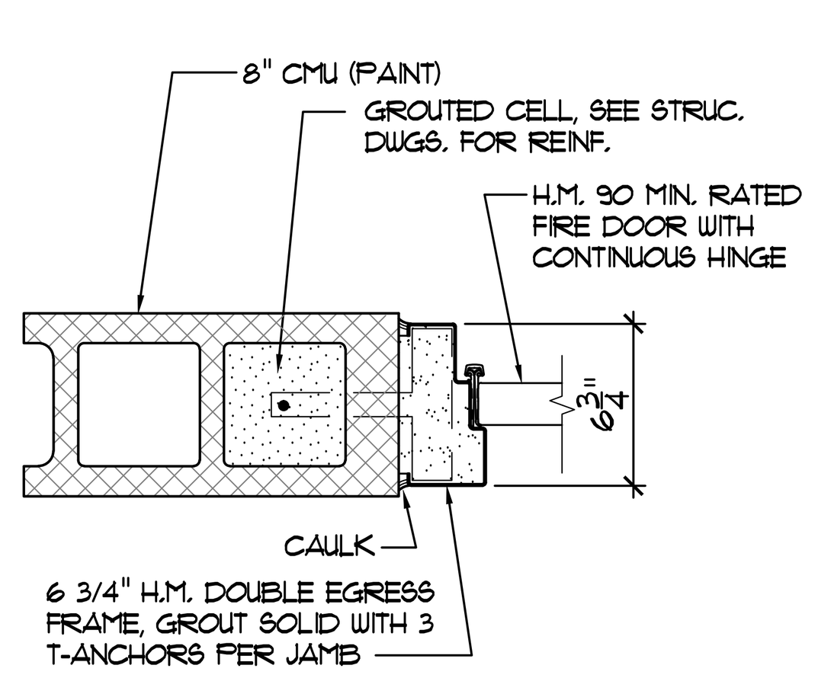
J11 WINDOW TYPES
1/4" = 1'-0"



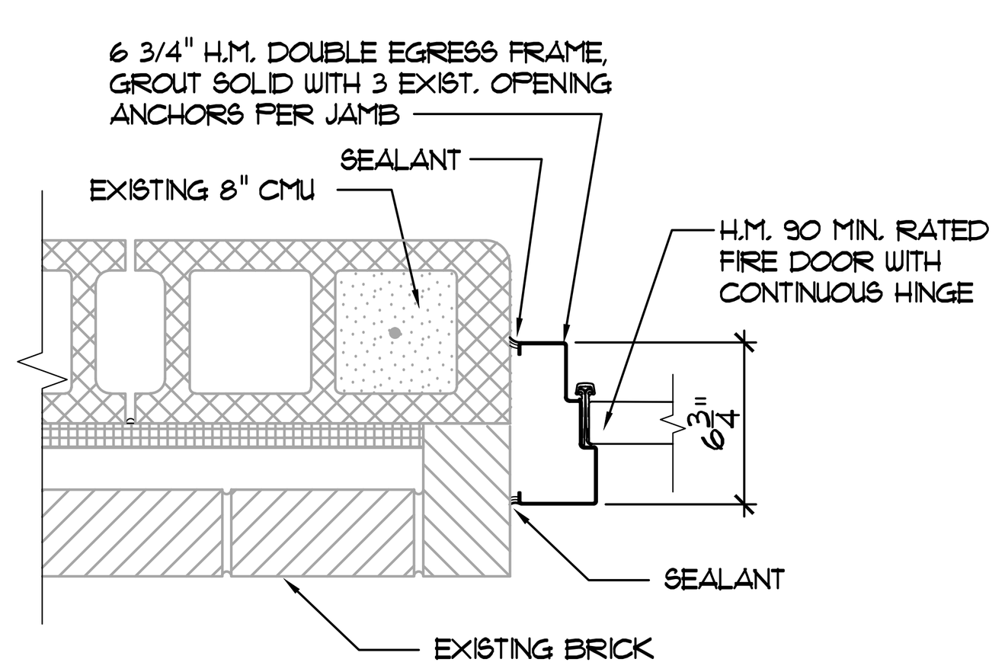
J15 WINDOW HEAD DETAIL
1 1/2" = 1'-0"



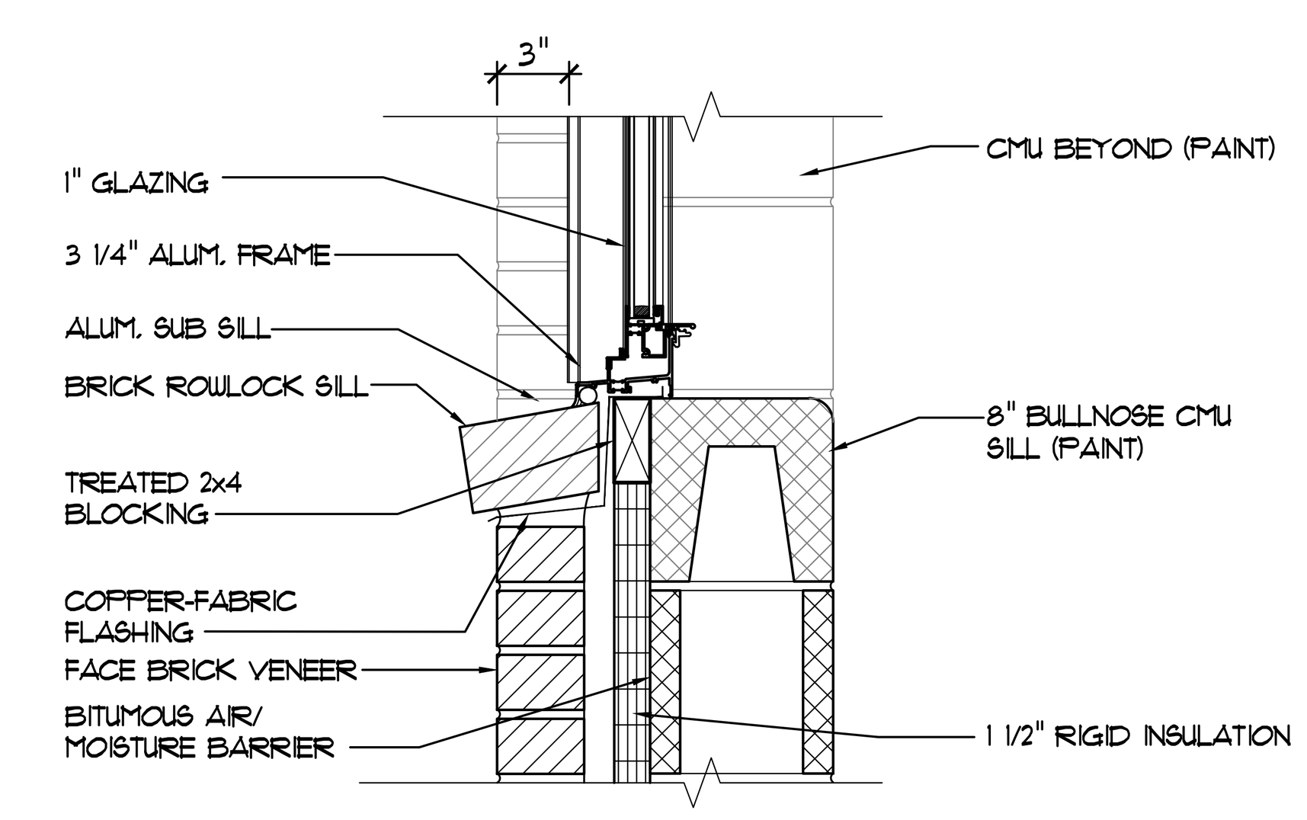
E1 DOOR JAMB
1 1/2" = 1'-0"



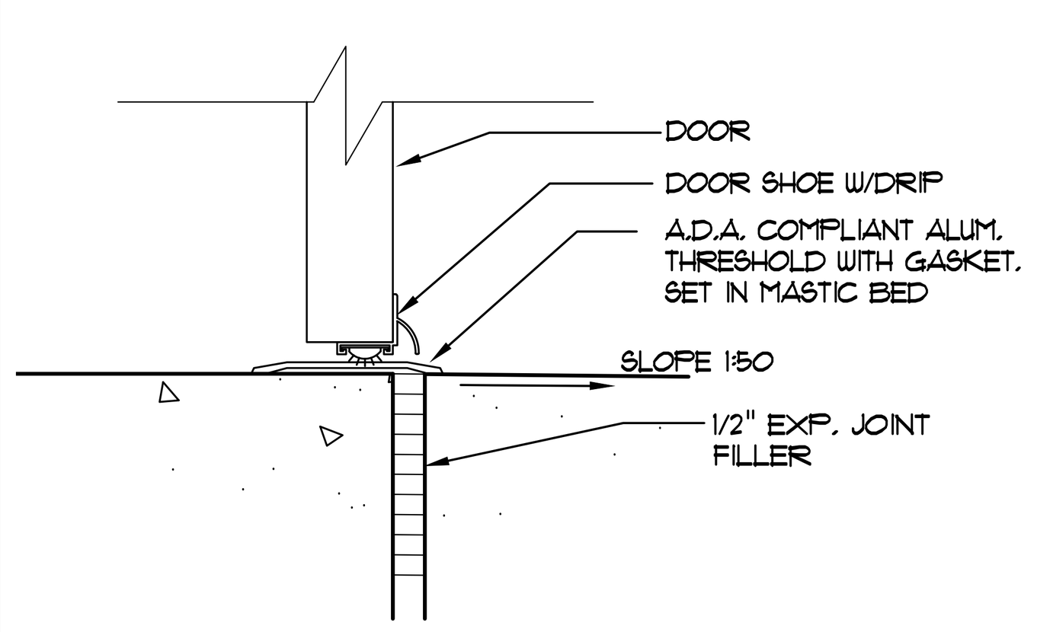
E4 DOOR JAMB
1 1/2" = 1'-0"



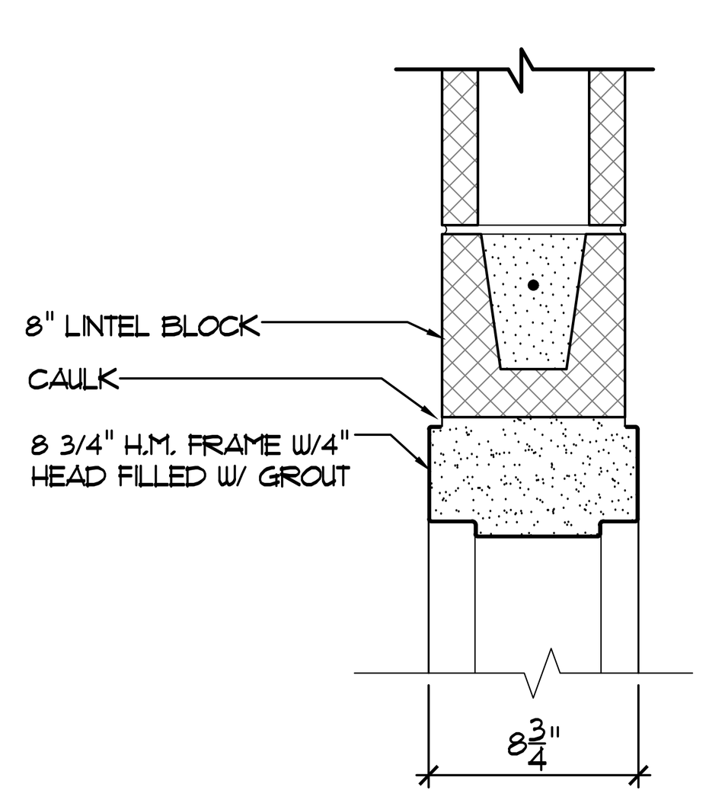
E7 DOOR JAMB
1 1/2" = 1'-0"



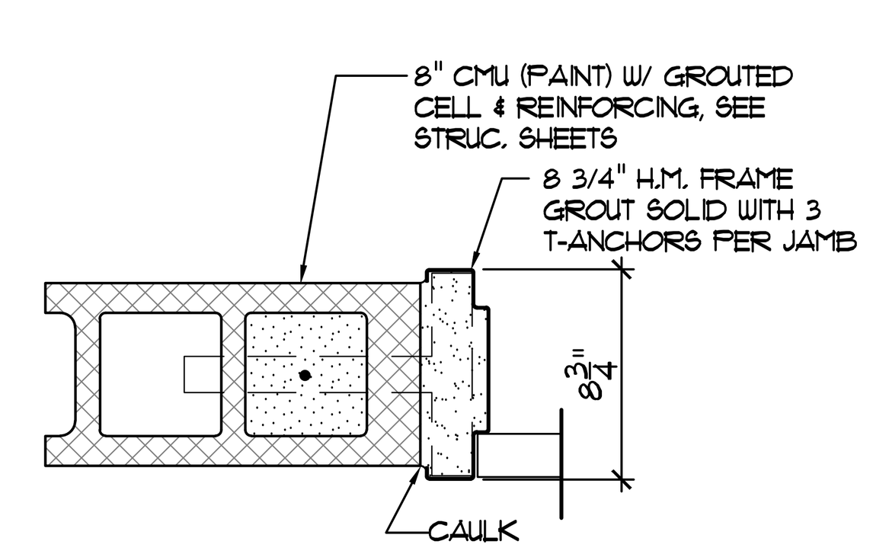
E15 WINDOW SILL DETAIL
1 1/2" = 1'-0"



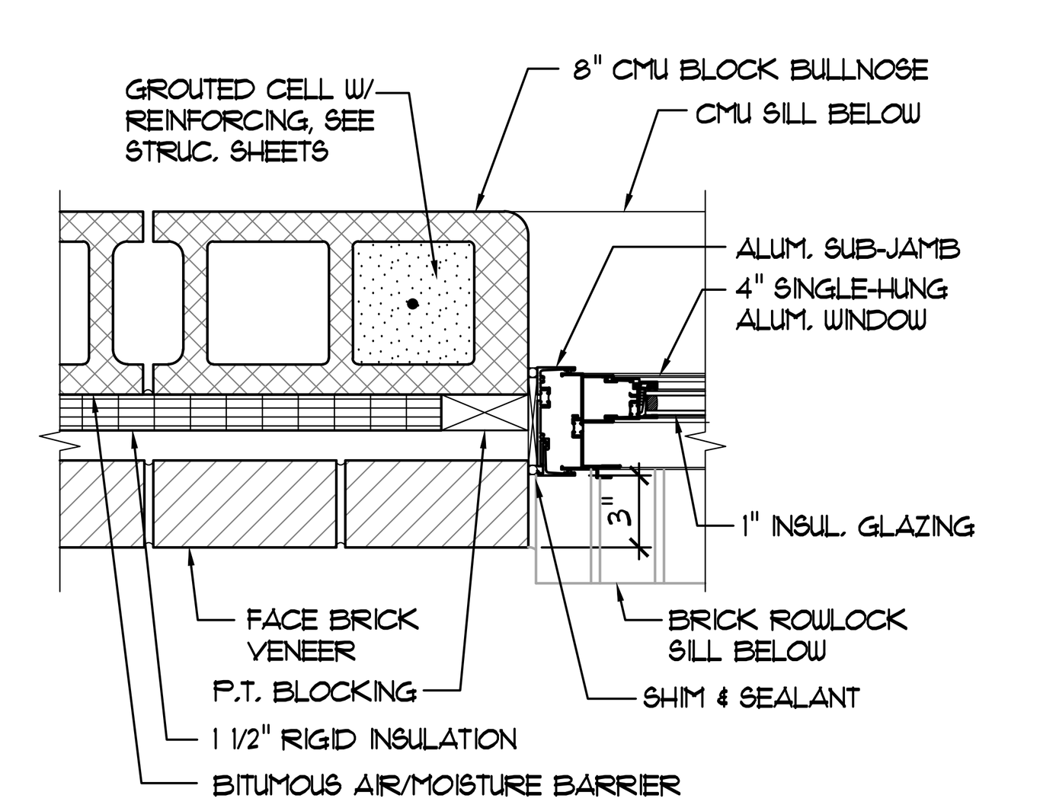
A1 THRESHOLD
3" = 1'-0"



A4 DOOR HEAD
1 1/2" = 1'-0"



A7 DOOR JAMB
1 1/2" = 1'-0"



A15 WINDOW JAMB DETAIL
1 1/2" = 1'-0"

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DOOR SCHEDULE AND DETAILS

JOB NO: 62556
DATE: 12.06.16
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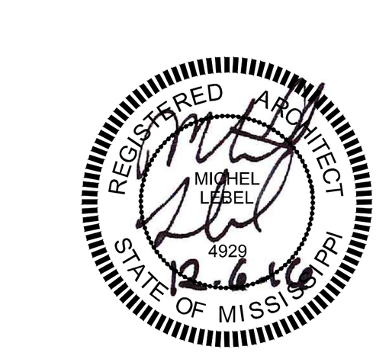

LEWISBURG ELEMENTARY
A10.1

FINISH SCHEDULE

No.	ROOM NAME	FLOOR	BASE	N. WALL	S. WALL	E. WALL	W. WALL	CEILING	HEIGHT	NOTES
A138	VESTIBULE	VCT	RB	PT-1	PT-1	PT-1	PT-1	ACT	7'-10"	
A139	CORRIDOR	VCT	RB	PT-1	PT-1	PT-1	PT-1	ACT	9'-3"	
A140	CLASSROOM	VCT	RB	PT-1	PT-1	PT-1	PT-1	ACT	9'-3"	
A141	CLASSROOM	VCT	RB	PT-1	PT-1	PT-1	PT-1	ACT	9'-3"	
A142	CLASSROOM	VCT	RB	PT-1	PT-1	PT-1	PT-1	ACT	9'-3"	
A143	CLASSROOM	VCT	RB	PT-1	PT-1	PT-1	PT-1	ACT	9'-3"	

SCHEDULE NOTES:

FINISH MATERIALS LEGEND

KEY	DESCRIPTION	MANUFACTURER	PRODUCT INFORMATION
VCT	VINYL CERAMIC TILE	SEE SPECS.	COLOR TO MATCH EXISTING
RB	4" RUBBER BASE	SEE SPECS.	COLOR TO MATCH EXISTING
PT-1	PAINT - SATIN FINISH	SEE SPECS.	COLOR TO MATCH EXISTING
PT-2	PAINT - SEMI GLOSS	SEE SPECS.	COLOR TO MATCH EXISTING
ACT	ACOUSTICAL TILE	SEE SPECS.	2' x 4' SUSPENDED LAYIN TILE & GRID

GENERAL FINISH NOTES
1. PAINT ALL H.M. DOORS, AND H.M. FRAMES PT-2

A1 FINISHES PLAN
1/8"=1'-0"

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LEWISBURG ELEMENTARY
A12.1

ABBREVIATIONS

ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
APPROX	APPROXIMATE(LY)
ARCH	ARCHITECTURAL
BC	BOTTOM CHORD
BLDG	BUILDING
BM	BEAM
BTM	BOTTOM
BP	BASE PLATE
BRG	BEARING
BS	BOTH SIDES
BW	BOTH WAYS
C	COMPRESSION
CHNL	CHANNEL
CJ	CONSTRUCTION JOINT
CL	CENTERLINE
CLR	CLEAR OR CLEARANCE
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATE
D	DEPTH
DIA, Ø	DIAMETER
DIM	DIMENSION
DWG	DRAWING
DWL	DOWEL
EA	EACH
EF	EACH FACE
ELEC	ELECTRICAL
ELEV	ELEVATION
EMBED	EMBEDMENT
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FND	FOUNDATION
FFE	FINISHED FLOOR ELEVATION
FP	FULL PENETRATION
FS	FAR SIDE
FTG	FOOTING
GA	GAGE OR GAUGE
GALV	GALVANIZED
HORIZ	HORIZONTAL
HS	HEADED STUD
INSUL	INSULATION
INT	INTERIOR
JST	JOIST
JT	JOINT
K	KIPS (1000 LBS.)
KSI	KIPS PER SQUARE INCH
LB, #	POUNDS
LD	DEVELOPMENT LENGTH
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG	LONGITUDINAL
LWC	LIGHTWEIGHT CONCRETE
MANUF	MANUFACTURER
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MEZZ	MEZZANINE
MID	MIDDLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MTL	METAL
N/A	NOT APPLICABLE
NS	NEAR SIDE
NTS	NOT TO SCALE
O.C.	ON CENTER
OF	OUTSIDE FACE
OPNG	OPENING
OPP	OPPOSITE
PERP	PERPENDICULAR
PL	PLATE
PEMB	PRE-ENGINEERED METAL BUILDING
PRELIM	PRELIMINARY
PROJ	PROJECTION
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
RAD	RADIUS
RD	ROOF DRAIN
REINF	REINFORCING (-ED, -MENT)
REQ'D	REQUIRED
REV	REVISION
RW	RETAINING WALL
SCHED	SCHEDULE (D)
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SPEC	SPECIFICATIONS(S)
SQ	SQUARE
SS	STAINLESS STEEL
STRUCT	STRUCTURE
SYM	SYMMETRICAL
T	TOP, TENSION
T/, T.O.	TOP OF
T/CONC	TOP OF CONCRETE
T/FTG	TOP OF FOOTING
T/SLAB	TOP OF SLAB
T&B	TOP & BOTTOM
TEMP	TEMPERATURE
THK	THICKNESS
TOS	TOP OF STEEL
TOW	TOP OF WALL
TRNV	TRANSVERSE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W/	WITH
W/O	WITHOUT
WP	WORK POINT
WWF	WELDED WIRE FABRIC

GENERAL NOTES

1. NO PROVISION OF ANY REFERENCED STANDARD SPECIFICATION, MANUAL OR CODE (WHETHER OR NOT SPECIFICALLY INCORPORATED BY REFERENCE IN THE CONTRACT DOCUMENTS) SHALL BE EFFECTIVE TO CHANGE THE DUTIES AND RESPONSIBILITIES OF THE OWNER, CONTRACTOR, ARCHITECT, ENGINEER, SUPPLIER, OR ANY OF THE CONSULTANTS, AGENTS, OR EMPLOYEES FROM THOSE SET FORTH IN THE CONTRACT DOCUMENTS, NOR SHALL IT BE EFFECTIVE TO ASSIGN TO THE STRUCTURAL ENGINEER OF RECORD (S.E.R.) OR ANY OF THE S.E.R.'S CONSULTANTS, AGENTS, OR EMPLOYEES ANY DUTY OR AUTHORITY TO SUPERVISE OR DIRECT THE FURNISHING OR PERFORMANCE OF THE WORK OR ANY DUTY OR AUTHORITY TO UNDERTAKE RESPONSIBILITIES CONTRARY TO THE PROVISIONS OF THE CONTRACT DOCUMENTS.
2. REFERENCE TO STANDARD SPECIFICATIONS (CONCERNING STRUCTURAL DESIGN) OF ANY TECHNICAL SOCIETY, ORGANIZATION, OR ASSOCIATION OR TO CODES OF LOCAL OR STATE AUTHORITIES, SHALL MEAN THE LATEST STANDARD CODES, SPECIFICATION OR TENTATIVE SPECIFICATION ADOPTED AT THE DATE OF TAKING BIDS, UNLESS SPECIFICALLY STATED OTHERWISE.
3. IN THE EVENT CONTRACT DOCUMENTS CONFLICT WITH THE CODE OF PRACTICE OR SPECIFICATIONS OF ACI, PCI, AISC, AISI, SJI OR OTHER STANDARDS, CONTACT STRUCTURAL ENGINEER FOR CLARIFICATION.
4. NOTES AND SPECIFIC DETAILS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS. CONTACT THE ARCHITECT / ENGINEER FOR A DETERMINATION OF INTENT BEFORE PROCEEDING WITH RELATED WORK IF THERE IS ANY DISCREPANCY OR QUESTION REGARDING WHICH NOTE TO FOLLOW.
5. MATERIAL, WORKMANSHIP, AND DESIGN SHALL CONFORM TO THE REFERENCED BUILDING CODE.
6. THE CONTRACTOR SHALL VERIFY THE DIMENSIONS, ELEVATIONS AND SITE CONDITIONS BEFORE STARTING WORK. THE ARCHITECT / ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY.
7. THE DESIGN, ADEQUACY, AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
8. THE CONTRACTOR SHALL COORDINATE THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL WORKS WITH THE STRUCTURAL CONTRACT DOCUMENTS. THE ARCHITECT / ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES OR OMISSIONS.
9. THE CONTRACTOR SHALL NOTIFY, IN WRITING, THE ENGINEER OF CONDITIONS ENCOUNTERED IN THE FIELD THAT ARE CONTRADICTORY TO THOSE SHOWN ON THE CONTRACT DOCUMENTS.
10. FOR DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS SEE THE ARCHITECTURAL DRAWINGS.

DESIGN CRITERIA

1. 2012 INTERNATIONAL BUILDING CODE (IBC)
2. LIVE LOADS (REDUCED AS ALLOWED BY THE BUILDING CODE):
   A. ROOF = 20 PSF
3. DEAD LOADS:
   A. ROOF: 20 PSF
4. SNOW LOADS:
   A. GROUND SNOW LOAD: PG = 10 PSF
5. WIND LOADS:
   A. BASIC WIND SPEED (3 SECOND GUST): 120 MPH
   B. WIND EXPOSURE: C
   C. INTERNAL PRESSURE COEFFICIENT: +0.18/-0.18
   D. COMPONENTS AND CLADDING PRESSURE: 25 PSF
5. SEISMIC LOADS:
   A. OCCUPANCY CATEGORY: III
   B. SPECTRAL RESPONSE COEFFICIENTS: Sds = 0.529; Sdl = 0.322
   C. SOIL SITE CLASS: D
   D. SEISMIC DESIGN CATEGORY: D
   E. RESPONSE MODIFICATION FACTOR: R= 5.0
   F. DEFLECTION AMPLIFICATION FACTOR: Cd = 3.5
   G. SYSTEM OVERSTRENGTH FACTOR: 2.5
   H. SEISMIC FORCE RESISTING SYSTEM: SPECIAL REINFORCED MASONRY SHEAR WALLS
   I. DESIGN BASE SHEAR: V= CsW = 25.9K
   J. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE

SHALLOW FOUNDATIONS

1. FOUNDATIONS ARE DESIGNED BASED UPON ASSUMED SOIL BEARING CAPACITIES AS STATED BELOW. FOUNDATION DESIGNS SUBJECT TO CHANGE UPON RECEIPT AND REVIEW OF THE REQUESTED GEOTECHNICAL REPORT
2. ALLOWABLE SOIL BEARING PRESSURES USED IN DESIGN:
   A. SPREAD FOOTINGS: 2000 PSF
   B. CONTINUOUS FOOTINGS: 2000 PSF
3. FOOTING EXCAVATIONS SHALL BE OBSERVED AND TESTED BY AN EXPERIENCED GEOTECHNICAL ENGINEER PRIOR TO STEEL OR CONCRETE PLACEMENT IN ORDER TO ASSESS THAT THE FOUNDATION MATERIALS ARE CONSISTENT WITH ABOVE STATED ASSUMED SOIL BEARING CAPACITIES.
4. IN THE EVENT THAT THE SOILS TEST RESULTS ARE DISAPPROVED, FOOTING EXCAVATIONS SHALL BE UNDERCUT (UNDER THE DIRECTION OF THE SOILS ENGINEER) UNTIL SOILS OF ADEQUATE BEARDING CAPACITY ARE ENCOUNTERED. BACKFILL UNDER FOOTINGS SHALL CONSIST OF CONCRETE F'C = 2500 PSI @ 28 DAYS PLACED UP TO THE PROPOSED BOTTOM OF FOOTING ELEVATION.
5. FOOTINGS SHALL BEAR ON UNDISTURBED RESIDUAL SOILS OR COMPACTED FILL, MAXIMUM DENSITY OF 98% ASTM D-698.
6. FOOTING ELEVATIONS SHOWN ON THE PLANS ARE FOR ESTIMATING PURPOSES ONLY. ACTUAL FOOTING ELEVATIONS SHALL BE DETERMINED BY THE CONTRACTOR AT THE SITE AND SHALL BE A MINIMUM OF 12" BELOW FINISHED GRADE.
7. ALL WATER SHALL BE REMOVED FROM FOUNDATION EXCAVATIONS PRIOR TO PLACING OF CONCRETE. IF BOTTOMS OF TRENCHES BECOME SOFTENED DUE TO WATER BEFORE FOOTINGS ARE CAST, THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL EXCAVATE THE SOFTENED MATERIAL AND REPLACE WITH CONCRETE.
8. ALL PIPES (WATER LINES, SEWER LINES, ETC.) AND CONDUITS RUNNING THROUGH WALLS / SLABS SHALL BE PROTECTED WITH ½" EXPANSION MATERIAL.
9. CONTINUOUS FOOTING PERPENDICULAR TO PIPE RUNS SHALL BE EITHER LOWERED TO ALLOW PIPES TO PASS THROUGH ABOVE SUCH FOOTINGS OR HAVE CONCRETE JACKET IF PIPES ARE LOW ENOUGH TO BE PLACED BELOW SUCH FOOTINGS. FOOTINGS PARALLEL TO PIPE RUNS SHALL BE LOWERED TO AVOID SURCHARGE ONTO THE TRENCH EXCAVATIONS.
10. REFER TO CIVIL/ARCHITECTURAL PLANS FOR LIMITS OF EXCAVATION.

STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL CONFORM TO ASTM A992, UNLESS NOTED OTHERWISE. PIPE COLUMNS SHALL CONFORM TO ASTM A53 TYPE E OR S GRADE B. TUBES SHALL CONFORM TO ASTM A500 GRADE B.
2. DESIGN, FABRICATION, AND ERECTION SHALL BE IN ACCORDANCE WITH AISC SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL BUILDINGS.
3. STRUCTURAL STEEL SHALL BE DETAILED IN ACCORDANCE WITH STANDARD PRACTICES OF AISC
   A. CONNECTIONS: AISC MANUAL STANDARD CONNECTIONS, UNLESS NOTED.
   B. HIGH-STRENGTH BOLTS: ASTM A325 BEARING TYPE N INSTALLED IN ACCORDANCE WITH "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS", RESEARCH COUNCIL ON RIVETED AND BOLTED STRUCTURAL JOINTS.
4. ALL WELDS MUST BE MADE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY CODE D-1.1.
5. FIELD AND SHOP CONNECTIONS SHALL BE WELDED AS SHOWN ON DRAWINGS OR BOLTED WITH HIGH STRENGTH BOLTS, UNLESS NOTED OTHERWISE.
6. SEE ARCHITECTURAL DRAWINGS FOR ANGLES, CLIPS, BARS, PLATES, AND OTHER ITEMS ATTACHED TO STRUCTURAL MEMBERS, AND FOR CHAMFERS ON CONCRETE WALLS, BEAMS, ETC.
7. PROVIDE TEMPORARY BRACING AS REQUIRED MAINTAINING ALIGNMENT AND SECURITY OF STRUCTURES DURING CONSTRUCTION.
8. DO NO CUTTING, DRILLING OR MODIFYING OF STRUCTURAL MEMBERS WITHOUT THE APPROVAL OF THE ENGINEER.
9. THE MANUFACTURER'S NAME, BRAND OR TRADEMARK (MILL IDENTIFICATION MARKS) SHALL BE SHOWN IN RAISED LETTERS AT INTERVALS ALONG THE LENGTH. (ASTM A6/A6M 96-97, PARAGRAPH 12.2) NOTE: FOR BEAMS WITH THE GREATEST CROSS-SECTIONAL DIMENSION NOT EXCEEDING (6") SIX INCHES, THE PRODUCER OR PROCESSOR HAS THE OPTION OF MARKING OR TAGGING A BUNDLE OF SUCH BEAMS WITH THE ABOVE INFORMATION.

MASONRY

1. CONCRETE MASONRY UNITS FOR LOAD BEARING WALLS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF F'M = 1500 PSI.
   A. HOLLOW UNITS: ASTM C90 GRADE N, LIGHTWEIGHT TYPE 1 (MOISTURE CONTROLLED)
   B. SOLID UNITS: ASTM C145 GRADE N, TYPE 1 (MOISTURE CONTROLLED)
2. CONCRETE MASONRY UNITS SHALL BE LAID WITH TYPE M OR S MORTAR.
3. GROUT FOR REINFORCED MASONRY: ASTM C476 (2000 PSI)
4. REINFORCEMENT:
   A. HORIZONTAL JOINTS: STANDARD DUR-O-WALL OR EQUIVALENT TRUSS OR TRI-ROD REINFORCEMENT AT 16"O.C. UNLESS NOTED OTHERWISE
   B. VERTICAL AND HORIZONTAL REINFORCEMENT: ASTM A615, GRADE 60
5. CONSTRUCTION OF ALL CONCRETE MASONRY SHALL CONFORM TO THE LATEST EDITION OF ACI-530.
6. GROUT SOLID ALL CELLS CONTAINING REINFORCING AND ALL CELLS BELOW GRADE.
7. CONTROL JOINTS: SPACING SHALL NOT EXCEED 30'-0" OR 3 TIMES THE WALL HEIGHT WHICHEVER IS LESSER, UNLESS NOTED OTHERWISE.
8. GROUT ALL BEAM AND JOIST POCKETS SOLID AFTER INSTALLATION OF BEAMS AND JOISTS.
9. MINIMUM LAP OF REINFORCING STEEL SHALL BE 50 BAR DIAMETERS FOR TYPICAL REINFORCING AND 50 BAR DIAMETERS FOR ALL JAMB BARS SHOWN ON WALL ELEVATIONS OR 2'-0" MINIMUM.
10. MAXIMUM HEIGHT OF GROUT POUR SHALL BE 4'-0".
11. PROVIDE 1/4" CLEARANCE FROM INSIDE FACE OF BLOCK MASONRY CELLS AND MINIMUM OF ONE BAR DIAMETER, BUT NOT LESS THAN 3/4" CLEAR DISTANCE BETWEEN PARALLEL BARS.
12. ALL VERTICAL REINFORCING STEEL SHALL BE POSITIONED AND HELD IN PLACE BY MEANS OF WIRE SPACERS.

METAL DECKING

1. PROVIDE DESIGN, FABRICATION, AND ERECTION OF METAL DECK CONFORMING TO THE STEEL DECK INSTITUTE'S "CODE OF RECOMMENDED STANDARD PRACTICE AND BASIC DESIGN SPECIFICATIONS".
2. FORM ROOF DECK FROM STEEL SHEETS CONFORMING TO ASTM A611 OR A653 OR HIGHER SPECIFICATIONS WITH MINIMUM YIELD STRENGTH OF 33 KSI.
3. ATTACH SHEETS TO STEEL SUPPORT MEMBERS AS INDICATED AND IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION. WHEN DECK IS SCHEDULED TO BE EXPOSED, DE-SLAG, CLEAN AND TOUCHED UP WELDS WITH A ZINC-RICH PRIMER.
4. LAP ROOF ENDS MINIMUM OF 2 INCHES WHEN FASTENING DECK TO SUPPORT MEMBERS PROVIDE WELDING MATERIALS INSTALLATION PROCEDURES TO PREVENT BURNING OF HOLES IN DECK.
5. METAL DECK FABRICATOR TO FURNISH SHOP DRAWINGS FOR STRUCTURAL ENGINEER'S REVIEW PRIOR TO FABRICATION. SHOP DRAWINGS SHALL INCLUDE WELDING PROCEDURE, SIDE LAP CONNECTIONS, TESTING PROGRAMS FOR WELDING, COATING MATERIAL AND ERECTION SEQUENCE.
6. ROOF DECK SHALL HAVE THE FOLLOWING MINIMUM SECTION PROPERTIES.
   A. SECTION PROPERTIES (PER FOOT OF WIDTH).
      TYPE = 1.5B:
      22 GAUGE: I = .169 in^4; Sp = .186 in^3; Sn = .192 in^3
      20 GAUGE: I = .212 in^4; Sp = .234 in^3; Sn = .247 in^3
7. FLOOR FORM DECKING SHALL HAVE THE FOLLOWING MINIMUM SECTION PROPERTIES.
   A. SECTION PROPERTIES (PER FOOT OF WIDTH).
      TYPE = 0.6C:
      26 GAUGE: Ip = .0015 in^4; In = .0015 in^4; Sp = .043 in^3; Sn = .043 in^3
      24 GAUGE: Ip = .0019 in^4; In = .0019 in^4; Sp = .057 in^3; Sn = .057 in^3

JOISTS + JOIST GIRDERS

1. PROVIDE OPEN WEB UNDER SLUNG, PARALLEL CHORD JOISTS AND JOIST GIRDERS UNLESS NOTED OTHERWISE ON THE DRAWINGS.
2. DESIGN, FABRICATE, AND ERECT OPEN WEB STEEL JOISTS AND JOIST GIRDERS TO THE SPECIFICATIONS OF THE STEEL JOIST INSTITUTE, LATEST EDITION.
3. UNLESS NOTED OTHERWISE, WELD K-SERIES JOISTS TO SUPPORTING BEAMS OR BEARING PLATES WITH 3/16 INCH FILLET WELD, 1-1/2 INCHES LONG ON EACH SIDE OF JOIST SEAT. USE MINIMUM OF 2-3/4 INCH DIAMETER A325-N BOLTS AT JOIST CONNECTIONS ON OR NEAREST TO COLUMN LINES.
4. UNLESS NOTED OTHERWISE, WELD LH OR DLH-SERIES JOISTS TO SUPPORTING BEAMS OR BEARING PLATES WITH ¼ INCH FILLET WELD, 2 INCHES LONG ON EACH SIDE OF JOIST SEAT. USE MINIMUM OF 2-3/4 INCH DIAMETER A325-N CONNECTION BOLTS AT JOIST CONNECTIONS ON OR NEAREST TO COLUMN LINES.
5. PROVIDE JOIST BRIDGING, SIZE AND SPACING, IN ACCORDANCE WITH STEEL JOIST INSTITUTE. PROVIDE SUPPLEMENTAL BRIDGING AS REQUIRED FOR NET WIND UPLIFT PRESSURES.
6. DESIGN ROOF JOISTS FOR THE FOLLOWING NET UPLIFT WIND UPLIFT PRESSURES
   A. EDGE ZONES (REGIONS WITHIN "Z" DISTANCE OF ROOF EDGE) = 20 PSF.
   B. CORNER ZONES (REGIONS WITHIN "Z" DISTANCE OF TWO INTERSECTING ROOF EDGES) = 25 PSF.
   C. INTERIOR ZONES (REGIONS THAT ARE NOT EDGE OR CORNER ZONES = 15 PSF.
   D. DISTANCE Z = 10.0 FT.
7. JOIST AND JOIST GIRDER SIZES AS SHOWN ON DRAWINGS ARE BASED ON GRAVITY LOAD CAPACITIES. DESIGN JOISTS AND JOIST GIRDERS FOR THE GRAVITY LOAD CAPACITIES IN ADDITION TO OTHER LOADS (UPLIFT, AXIAL LOADS, CONCENTRATED LOADS, MOMENTS, ETC.) AS INDICATED ON DRAWINGS.
8. SHOP DRAWINGS FOR JOISTS, JOIST ACCESSORIES, JOIST GIRDERS AND JOIST GIRDER ACCESSORIES TO BE PREPARED BY THE JOIST MANUFACTURER'S DETAILERS.
9. SUBMIT DESIGN CALCULATIONS IN ACCORDANCE WITH STEEL JOIST INSTITUTE DESIGN STANDARDS FOR ALL JOIST AND JOIST GIRDERS. DESIGN CALCULATIONS TO BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED.
10. PROVIDE 2-1/2 INCH MINIMUM BEARING ON STRUCTURAL STEEL FOR K-SERIES JOISTS, 4 INCH MINIMUM BEARING ON MASONRY OR PROVIDE BEARING LENGTHS PER STEEL JOIST INSTITUTE REQUIREMENTS UNLESS GREATER LENGTHS ARE SHOWN ON DRAWINGS.
11. VERIFY SIZE, WEIGHT, LOCATION AND CONFIGURATION OF ALL ROOF TOP EQUIPMENT WITH THE ARCHITECT AND MECHANICAL ENGINEER. COORDINATE OPENINGS WITH THE MECHANICAL AND GENERAL CONTRACTOR.
12. ALL CONCENTRATED LOADS GREATER THAN 100 POUNDS SUPPORTED BY OPEN WEB STEEL JOISTS AND GIRDERS SHALL BE LOCATED WITHIN 6 INCHES OF JOIST OR GIRDER PANEL POINTS OR THE JOIST OR GIRDER SHALL BE REINFORCED WITH AN ADDITIONAL WEB MEMBER. REFER TO THE "TYPICAL JOIST MODIFICATION DETAIL" ON THE STRUCTURAL DRAWINGS.
13. PROVIDE SPECIAL BEARING ENDS TO ACCOMMODATE SLOPES FROM SLOPED JOISTS, SLOPED GIRDERS OR SLOPED BEARING CONDITIONS.
14. EXTEND ALL JOIST BOTTOM CHORDS AT COLUMNS AND WELD AFTER DEAD LOAD IS APPLIED. PROVIDE ADDITIONAL BOTTOM CHORD EXTENSIONS AS REQUIRED INDICATED IN STRUCTURAL OR ARCHITECTURAL DRAWINGS.
15. AT JOIST PARALLEL TO BEAMS ANCHOR BRIDGING BY WELDING TO BEAMS. AT JOISTS PARALLEL WITH WALLS, WELD BRIDGING TO AN L3X3X3/16 AT TOP AND BOTTOM. ANCHOR ANGLE TO WALL USING (2) 3/8" DIAMETER SLEEVE ANCHORS.
16. NO MECHANICAL, ELECTRICAL, ETC. SHALL BE HUNG FROM OR OTHERWISE SUPPORTED BY JOIST BRIDGING.

REINFORCING

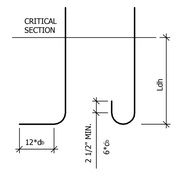
1. REINFORCING SHALL BE DETAILED AND PLACED IN CONFORMANCE WITH ACI DETAILING MANUAL.
2. REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60 EXCEPT ALL REINFORCING IN CONCRETE MOMENT FRAMES AND SHEAR WALLS AND ALL WELDED REINFORCEMENT SHALL CONFORM TO ASTM A706 GRADE 60.
3. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
4. MINIMUM LAP OF WELDED WIRE FABRIC SHALL BE 6" OR ONE FULL MESH + 2", WHICHEVER IS GREATER.
5. DOWELS BETWEEN FOOTINGS AND WALLS SHALL BE THE GRADE, SIZE AND SPACING OR NUMBER AS THE VERTICAL REINFORCING, RESPECTIVELY.
6. REINFORCING STEEL IN ALL CONCRETE WALLS AND FOOTINGS SHALL BE CONTINUOUS AROUND CORNERS.
7. PROVIDE (2) #5 EXTRA REINFORCING BARS AROUND ALL SIDE OF OPENINGS IN CONCRETE, UNLESS NOTED OTHERWISE ON THE PLANS. EXTEND BARS 2'-0" BEYOND EACH EDGE OF OPENING.
8. MINIMUM CLEAR COVERAGE OF CONCRETE OVER REINFORCEMENT SHALL BE:
   A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH ..... 3"
   B. CONCRETE EXPOSED TO EARTH OR WEATHER:
      i. NO. 6 THROUGH NO. 18 BAR..... 2"
      ii. NO. 5 BAR, W31 OR D31 WIRE OR SMALLER..... 1-1/2"
   c. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
      i. SLABS WALLS AND JOISTS NO. 14 & NO. 18..... 1-1/2"
      ii. SLABS WALLS AND JOISTS NO. 11 & SMALLER..... 3/4"
      iii. BEAMS, COLUMNS: TIES AND PRIMARY REINFORCING..... 1-1/2"

REINFORCING EMBEDMENT / DEVELOPMENT LENGTH

BAR SIZE	f'c = 3000 PSI Ld	f'c = 3000 PSI Ldh	f'c = 4000 PSI Ld	f'c = 4000 PSI Ldh	f'c = 5000 PSI Ld	f'c = 5000 PSI Ldh
#3	16 1/2"	8 1/2"	14 1/2"	8"	13"	7"
#4	22"	11"	19"	10"	17"	9"
#5	28"	14"	24"	12"	22"	11"
#6	33"	17"	29"	15"	26"	13"
#7	48"	20"	42"	17"	38"	15"
#8	55"	22"	48"	19"	43"	17"
#9	62"	25"	54"	22"	48"	20"
#10	70"	28"	61"	25"	54"	22"
#11	78"	31"	67"	27"	60"	24"

Notes:
1. Fy = 60 ksi.
2. Ld = STRAIGHT BAR DEVELOPMENT LENGTH.
3. Ldh = DEVELOPMENT LENGTH w/ STANDARD HOOK.

HOOK BAR DETAILS

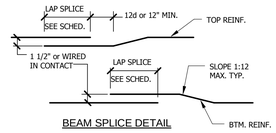


db = BAR DIAMETER

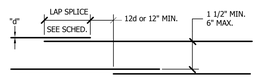
REINFORCING LAP SPLICE LENGTH SCHEDULE

BAR SIZE	f'c = 3000 PSI	f'c = 4000 PSI	f'c = 5000 PSI
#3	22"	19"	17"
#4	29"	25"	22"
#5	36"	31"	28"
#6	43"	38"	34"
#7	63"	54"	49"
#8	72"	62"	56"
#9	81"	70"	63"
#10	91"	79"	71"
#11	101"	87"	78"

NOTES:
1. FY = 60 ksi
2. SPLICE LENGTHS ARE FOR NORMAL WEIGHT CONCRETE.
3. ALL SPLICES SHALL BE STAGGERED AS SHOWN. IF MORE THAN 50% OF THE REINFORCING IS LAP SPLICED WITHIN THE REQUIRED LAP SPLICE LENGTH, THE LAP SPLICE LENGTH SHALL BE INCREASED BY 33%.
4. LAP LENGTHS SPECIFICALLY DETAILED IN DRAWINGS SHALL GOVERN IN LIEU OF SCHEDULE.
5. SMALLER BAR REQUIRED LAP LENGTH SHALL BE USED WHEN SPLICING WITH A LARGER BAR.



BEAM SPLICE DETAIL



SLAB SPLICE DETAIL

CONCRETE

1. ALL PHASES OF WORK PERTAINING TO THE CONCRETE CONSTRUCTION SHALL CONFORM TO THE "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" (ACI 318), LATEST EDITION WITH MODIFICATIONS AS NOTED IN THE DRAWINGS OR SPECIFICATIONS.
2. CONCRETE MIXES SHALL BE DESIGNED BY A QUALIFIED TESTING LABORATORY AND APPROVED BY THE STRUCTURAL ENGINEER.
3. ALL EXPOSED CORNERS OR EDGES OF COLUMNS, PIERS, WALLS, ETC., SHALL BE FORMED WITH A 3/4â CHAMFER UNLESS NOTED OTHERWISE ON STRUCTURAL OR ARCHITECTURAL DRAWINGS.
4. ALL REINFORCING BARS, ANCHOR BOLTS AND OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.
5. PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL OPENINGS IN CONCRETE BEFORE PLACING CONCRETE. DO NOT CUT ANY REINFORCING THAT MAY CONFLICT. CORING IS NOT PERMITTED EXCEPT AS SHOWN. NOTIFY THE STRUCTURAL ENGINEER IN ADVANCE OF CONDITIONS NOT SHOWN ON THE DRAWINGS.
6. CONDUIT OR PIPE SIZE (O.D.) SHALL NOT EXCEED 30% OF THE SLAB THICKNESS AND SHALL BE PLACED BETWEEN THE TOP AND BOTTOM REINFORCING UNLESS SPECIFICALLY DETAILED OTHERWISE. CONCENTRATIONS OF CONDUITS OR PIPES SHALL BE AVOIDED EXCEPT WHERE DETAILED OPENINGS ARE PROVIDED.
7. CURING COMPOUNDS ON CONCRETE THAT IS TO RECEIVE SPECIAL FINISH SHALL BE APPROVED BY THE MANUFACTURER BEFORE USE.
8. ROUGHEN SURFACE OF HORIZONTAL OR NEARLY HORIZONTAL CONSTRUCTION JOINTS SO THAT THE AGGREGATE SHALL BE EXPOSED UNIFORMLY, LEAVING NO LAITANCE, LOOSED PARTICLES OR DAMAGED CONCRETE.
9. LOCATE JOINTS NOT INDICATED TO LEAST IMPAIR STRENGTH AND APPEARANCE OF THE STRUCTURE. LOCATE HORIZONTAL JOINTS IN CONCRETE ONLY WHERE THEY NORMALLY OCCUR OR WHERE INDICATED. LOCATE VERTICAL JOINTS IN MIDDLE THIRD OF SPANS OF SLABS, BEAMS, OR GIRDERS UNLESS A BEAM INTERSECTS A GIRDER AT MIDDLE LOCATION, IN WHICH CASE OFFSET JOINTS IN GIRDERS TWICE THE WIDTH OF THE BEAM.
10. ONCE FORMWORK HAS BEEN REMOVED FROM CONCRETE RETAINING WALLS, BRACE WALLS THOROUGHLY BEFORE PLACING SOIL AGAINST WALL AND KEEP BRACING IN PLACE FOR A MINIMUM OF 7 DAYS AFTER EARTHWORK IS COMPLETE.

SCHEDULE OF CONCRETE STRENGTHS

USE (LOCATION)	28 Day Strength	Aggregate Size (Max.)	Cement/CY (Min.)	W/C ratio (Max.)	Slump (Max.)	Air Entrainment
SLAB-ON-GRADE (INTERIOR)	f'c=3,000 psi	1"	480#	.62	4-1/2"	NONE
EXPOSED CONCRETE	f'c=4,000 psi	1"	560#	.54	4-1/2"	4%-6%
FOOTINGS	f'c=3,000 psi	1"	480#	.62	4-1/2"	NONE

1. ALL AGGREGATE SHALL BE LIMESTONE
2. ALL CEMENT SHALL BE PORTLAND CEMENT TYPE 1

STRUCTURAL DRAWING LIST

Sheet No:	Sheet Name
S1.00	STRUCTURAL GENERAL NOTES
S1.01	STRUCTURAL SPECIAL INSPECTIONS
S2.00	FOUNDATION PLAN
S2.01	ROOF FRAMING PLAN
S3.00	WALL SECTIONS/DETAILS
S3.01	WALL SECTIONS/DETAILS
S3.02	FOUNDATION DETAILS
S4.00	FRAMING SECTIONS/DETAILS
SX.00	Job Status

Allen&Hoshall
engineers-architects-surveyors

Allen & Hoshall, P.L.L.C.
Michel Lebel, Architect
Allen & Hoshall
1661 International Drive Memphis, TN 38120
901 820 0820 fax 901 683 1001

CLASSROOM ADDITION TO LEWISBURG ELEMENTARY SCHOOL

DESOTO COUNTY SCHOOL BOARD

DESOTO COUNTY, MISSISSIPPI

No.	Revision	Date

STRUCTURAL GENERAL NOTES

JOB NO: 62556
DATE: 12.06.16
DRAWN: TBH
CHECKED:
CAD FILE:

LEWISBURG ELEMENTARY

S1.00

12/12/2016 10:39:23 AM

STATEMENT OF SPECIAL INSPECTIONS AGREEMENT

TO PERMIT APPLICANTS OF PROJECTS REQUIRING SPECIAL INSPECTION AND/OR TESTING IN ACCORDANCE WITH SECTION 1704 OF THE INTERNATIONAL BUILDING CODE (IBC):

PROJECT ADDRESS: LEWISBURG ELEMENTARY SCHOOL
1717 CRAFT RD, OLIVE BRANCH, MS 38654

PERMIT NO:

APPROVAL OF SPECIAL INSPECTORS: SPECIAL INSPECTORS SHALL HAVE NO FINANCIAL INTEREST IN PROJECTS FOR WHICH THEY PROVIDE SPECIAL INSPECTION. SPECIAL INSPECTORS SHALL BE APPROVED BY THE BUILDING DEPARTMENT PRIOR TO PERFORMING ANY DUTIES. SPECIAL INSPECTORS SHALL SUBMIT THEIR QUALIFICATIONS AND ARE SUBJECT TO PERSONAL INTERVIEWS FOR PREQUALIFICATION. SPECIAL INSPECTORS SHALL DISPLAY APPROVED IDENTIFICATION, AS STIPULATED BY THE BUILDING OFFICIAL, WHEN PERFORMING THE FUNCTION OF SPECIAL INSPECTOR.

SPECIAL INSPECTION AND TESTING SHALL MEET THE MINIMUM REQUIREMENTS OF SECTIONS 1704 AND 1705 OF THE IBC. THE FOLLOWING CONDITIONS ARE ALSO APPLICABLE:

A) DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR

1) GENERAL REQUIREMENTS. SPECIAL INSPECTORS SHALL REVIEW APPROVED PLANS AND SPECIFICATIONS FOR SPECIAL INSPECTION REQUIREMENTS. SPECIAL INSPECTORS SHALL COMPLY WITH THE SPECIAL INSPECTION REQUIREMENTS OF THE ENFORCING JURISDICTION FOUND IN THE STATEMENT OF SPECIAL INSPECTIONS, INCLUDING WORK AND MATERIALS.

2) SIGNIFY PRESENCE AT JOB SITE. SPECIAL INSPECTORS SHALL NOTIFY CONTRACTOR PERSONNEL OF THEIR PRESENCE AND RESPONSIBILITIES AT THE JOB SITE. IF REQUIRED BY THE BUILDING OFFICIAL, THEY SHALL SIGN IN ON THE APPROPRIATE FORM POSTED WITH THE BUILDING PERMIT.

3) OBSERVE ASSIGNED WORK. SPECIAL INSPECTORS SHALL INSPECT ALL WORK ACCORDING THE STATEMENT OF SPECIAL INSPECTIONS FOR WHICH THEY ARE RESPONSIBLE FOR COMPLIANCE WITH THE BUILDING-DEPARTMENT-APPROVED (STAMPED) PLANS AND SPECIFICATIONS, AND THE APPLICABLE PROVISIONS OF SECTION 1704 OF THE IBC.

4) REPORT NONCONFORMING ITEMS (DISCREPANCIES). SPECIAL INSPECTORS SHALL BRING ALL NONCONFORMING ITEMS TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR. IF ANY SUCH ITEM IS NOT RESOLVED IN A TIMELY MANNER OR IS ABOUT TO BE INCORPORATED INTO THE WORK, THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE AND THE BUILDING OFFICIAL SHALL BE NOTIFIED IMMEDIATELY AND THE ITEM NOTED IN THE SPECIAL INSPECTOR'S WRITTEN REPORT (SEE SECTION 1704.2.4). THE SPECIAL INSPECTOR SHALL INCLUDE IN THE REPORT AT A MINIMUM THE FOLLOWING FOR EACH NONCONFORMING ITEM:
- DESCRIPTION AND EXACT LOCATION.
- REFERENCE TO APPLICABLE DETAIL OF APPROVED PLANS/SPECIFICATIONS.
- NAME AND TITLE OF EACH INDIVIDUAL NOTIFIED AND METHOD OF NOTIFICATION.
- RESOLUTION OF CORRECTIVE ACTION TAKEN.

5) PROVIDE TIMELY PROGRESS REPORTS. THE SPECIAL INSPECTOR SHALL COMPLETE WRITTEN INSPECTION REPORTS FOR EACH INSPECTION VISIT AND PROVIDE THE REPORTS ON A TIMELY BASIS AS DETERMINED BY THE BUILDING OFFICIAL. THE SPECIAL INSPECTOR OR INSPECTION AGENCY SHALL FURNISH THESE REPORTS DIRECTLY TO THE BUILDING OFFICIAL, AS REQUIRED BY THE BUILDING OFFICIAL, AND TO THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE (SEE SECTION 1704.2.4). THE REPORTS SHOULD BE ORGANIZED ON A DAILY FORMAT AND MAY BE SUBMITTED WEEKLY AT THE OPTION OF THE BUILDING OFFICIAL. IN THESE REPORTS, SPECIAL INSPECTORS SHOULD:
- DESCRIBE INSPECTIONS AND TESTS MADE WITH APPLICABLE LOCATIONS.
- INDICATE NONCONFORMING ITEMS (DISCREPANCIES) AND HOW THEY WERE RESOLVED.
- LIST UNRESOLVED ITEMS, PARTIES NOTIFIED, AND TIME AND METHOD OF NOTIFICATION.
- ITEMIZE CHANGES AUTHORIZED BY THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE IF NOT INCLUDED IN NONCONFORMING ITEMS.

6) SUBMIT FINAL REPORT. SPECIAL INSPECTORS OR INSPECTION AGENCIES SHALL SUBMIT A FINAL SIGNED REPORT TO THE BUILDING DEPARTMENT, AS REQUIRED BY THE BUILDING DEPARTMENT, STATING THAT ALL ITEMS REQUIRING SPECIAL INSPECTION AND TESTING BY THE STATEMENT OF SPECIAL INSPECTIONS WERE FULFILLED AND REPORTED, AND, TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, CONFORM TO THE APPROVED PLANS AND SPECIFICATIONS (SEE SECTION 1704.2.4). ITEMS NOT IN CONFORMANCE, UNRESOLVED ITEMS OR ANY DISCREPANCIES IN INSPECTION COVERAGE (i.e. MISSED INSPECTIONS, PERIODIC INSPECTION WHEN CONTINUOUS WAS REQUIRED, etc.) SHALL BE SPECIFICALLY ITEMIZED IN THIS REPORT.

B) OWNER RESPONSIBILITIES

THE PROJECT OWNER OR AN AGENT OF THE OWNER SHALL BE RESPONSIBLE FOR PROCURING AND FUNDING SPECIAL INSPECTION SERVICES. MEASURES SHALL BE TAKEN TO ENSURE THAT THE SCOPE OF WORK AND DUTIES OF THE SPECIAL INSPECTION AS OUTLINED IN THE STATEMENT OF SPECIAL INSPECTIONS ARE NOT COMPROMISED.

C) CONTRACTOR RESPONSIBILITIES

1) CONTRACTOR SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE, BUILDING OFFICIAL, AS REQUIRED BY THE BUILDING OFFICIAL, AND TO THE OWNER, AS REQUIRED BY THE OWNER, PRIOR TO COMMENCEMENT OF THE WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN THE FOLLOWING:
- ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS,
- ACKNOWLEDGEMENT THAT CONTROL SHALL BE EXERCISED TO OBTAIN COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL,
- PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING, AND THE DISTRIBUTION OF REPORTS, AND
- IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THE POSITION(S) IN THE ORGANIZATION.

2) MINIMUM JOB-SITE PROTOCOL FOR SPECIAL INSPECTION:
- NOTIFY THE SPECIAL INSPECTOR. ADEQUATE NOTICE SHALL BE PROVIDED SO THAT THE SPECIAL INSPECTOR HAS TIME TO BECOME FAMILIAR WITH THE PROJECT.
- PROVIDE ACCESS TO APPROVED PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE SPECIAL INSPECTOR WITH ACCESS TO APPROVED PLANS.
- RETAIN SPECIAL INSPECTION RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RETAINING, AT THE JOB SITE, ALL SPECIAL INSPECTION RECORDS SUBMITTED BY THE INSPECTOR AND PROVIDING THESE RECORDS FOR REVIEW BY THE BUILDING DEPARTMENT'S INSPECTOR UPON REQUEST.

ACI 530-11 TABLE 1.19.3
CONCRETE MASONRY LEVEL C QUALITY ASSURANCE

MINIMUM TESTS

VERIFICATION OF $f`_m$ AND $f`_{ACC}$ IN ACCORDANCE WITH SPECIFICATION ARTICLE 1.4 B PRIOR TO CONSTRUCTION AND FOR EVERY 5,000 sq. ft (465 SQ. m) DURING CONSTRUCTION

VERIFICATION OF PROPORTIONS OF MATERIALS IN PREMIXED OR PREBLENDED MORTAR, PRESTRESSING GROUT, AND GROUT OTHER THAN SELF-CONSOLIDATING GROUT, AS DELIVERED TO THE PROJECT SITE

VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) AS DELIVERED TO THE PROJECT SITE IN ACCORDANCE WITH ARTICLE 1.5.B.1.b.3 FOR SELF-CONSOLIDATING GROUT

MINIMUM INSPECTION

INSPECTION TASK	APPLICABLE TO THIS PROJECT	FREQUENCY[a]		REFERENCE FOR CRITERIA	
		CONTINUOUS	PERIODIC	TMS 402/ ACI 530/ ASCE 5	TMS 602/ ACI 530.1/ ASCE 6
1. VERIFY COMPLIANCE WITH APPROVED SUBMITTALS	Y	-	X	-	ART 1.5
2. VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:					
a. PROPORTIONS OF SITE-MIXED MORTAR, GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS	Y	-	X	-	ART 2.1, 2.6 A, 2.6 B, 2.6 C, 2.4 G.1.b
b. GRADE, TYPE AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES	Y	-	X	SEC 1.16	ART 2.4, 3.4
c. PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MORTAR JOINTS	Y	-	X	-	ART 3.3 B
d. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES	Y	X	-	SEC 1.16	ART 3.2 E, 3.4, 3.6 A
e. GROUT SPACING PRIOR TO GROUTING	Y	X	-	-	ART 3.2 D, 3.2 F
f. PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS	Y	X	-	-	ART 3.5, 3.6 C
g. SIZE AND LOCATION OF STRUCTURAL ELEMENTS	Y	-	X	-	ART 3.3 F
h. TYPE, SIZE, AND LOCATION OF ANCHORS INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION	Y	X	-		-
i. WELDING OF REINFORCEMENT	N	X	-		-
j. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F (4.4°C)) OR HOT WEATHER	Y	-	X	-	ART 1.8 C, 1.8 D
k. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE	N	X	-	-	ART 3.6 B
l. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS	N	X	-	-	ART 3.3 B.8
m. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY	N	X	-	-	ART 2.1 C.1
3. OBSERVE PREPARATION OF GROUT SPECIMENTS, MORTAR SPECIMENS, AND/OR PRISMS	Y	X	-	-	ART 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, 1.4 B.4

(a) FREQUENCY REFERS TO THE FREQUENCY OF INSPECTION, WHICH MAY BE CONTINUOUS DURING THE TASK LISTED OR PERIODICALLY DURING THE LISTED TASK, AS DEFINED IN THE TABLE.

MINIMUM QUALIFICATIONS FOR STRUCTURAL SPECIAL INSPECTORS[a,b]

SPECIAL INSPECTION CATEGORY	REQUIRED EXPERIENCE	REQUIRED CERTIFICATION(S)	NOTES
CONCRETE CONSTRUCTION (PRESTRESSED/PRECAST)	NOTE c	ICC PRESTRESSED SI AND ICC REINFORCED CONCRETE SI	
REINFORCED CONCRETE	NOTE c	ICC REINFORCED CONCRETE SI OR ACI CONCRETE CONSTRUCTION SI	
NDT	120 HOURS FOR LEVEL II	ANSI/ASNT-CP-189 NDT OR SNT-TC-1a NDT	
PIER AND PILE FOUNDATIONS	NOTE c	NICET II (GEOTECHNICAL OR CONSTRUCTION, OR CONSTRUCTION MATERIAL TESTING OR SOILS)	NOTE d
POST-INSTALLED STRUCTURAL ANCHORS IN CONCRETE	NOTE c	ICC REINFORCED CONCRETE SI OR ACI CONCRETE CONSTRUCTION SI	
SOILS	NOTE c	ICC SOILS SI OR NICET II (GEOTECHNICAL OR CONSTRUCTION, OR CONSTRUCTION MATERIAL TESTING OR SOILS)	NOTE d
STEEL (HIGH-STRENGTH BOLTING)	NOTE c	ICC STRUCTURAL STEEL AND BOLTING SI	
STEEL (WELDING)	5 YEARS MINIMUM OR IN ACCORDANCE WITH AWS	AWS CWI OR ICC STRUCTURAL WELDING SI	
MASONRY CONSTRUCTION	NOTE c	ICC STRUCTURAL MASONRY SI	
WOOD CONSTRUCTION	NOTE c	ICC COMMERCIAL BUILDING INSPECTOR OR ICC RESIDENTIAL BUILDING INSPECTOR	NOTE d
STRUCTURAL COLD-FORMED STEEL	NOTE c	ICC COMMERCIAL BUILDING INSPECTOR OR ICC RESIDENTIAL BUILDING INSPECTOR	NOTE d
EXCAVATION - SHEETING, CHORING AND BRACING	NOTE c	NICET II (GEOTECHNICAL OR CONSTRUCTION, OR CONSTRUCTION MATERIAL TESTING OR SOILS)	NOTE d
STRUCTURAL SAFETY - STABILITY AND MECHANICAL DEMOLITION	NOTE c	RDP, PE, BS ENGINEERING / ARCHITECTURE OR VALID SITE SAFETY MANAGER CERTIFICATION	
SEISMIC ISOLATION SYSTEMS	NOTE c	RDP, PE, BS ENGINEERING / ARCHITECTURE	
SPECIAL CASES	NOTE c	ICC COMMERCIAL BUILDING INSPECTOR OR ICC RESIDENTIAL BUILDING INSPECTOR	NOTE d

a. IT IS RECOGNIZED THAT THE DEVELOPMENT OF QUALIFIED INSPECTORS REQUIRES THOSE INDIVIDUALS TO OBTAIN EXPERIENCE PERFORMING INSPECTIONS OF ACTUAL WORK. THE REQUIREMENTS HEREIN INCLUDE SUCH EXPERIENCE, AS DO SOME OF THE REQUIRED CERTIFICATIONS. TO PROVIDE A VEHICLE FOR INDIVIDUALS TO OBTAIN THIS EXPERIENCE, THEY SHALL PERFORM INSPECTIONS IN ACCORDANCE WITH WRITTEN ASSOCIATE OR APPRENTICE PROGRAMS THAT ARE PREPARED BY THE SIA, APPROVED BY THE SIA AND MEET THE REQUIREMENTS OF THE LOCAL GOVERNING AUTHORITY. THESE PROGRAMS MUST INCLUDE, AT A MINIMUM, PASSING CERTIFICATION EXAMS, WHEN AVAILABLE, ADMINISTERED BY THIRD-PARTY AGENCIES, SUCH AS ICC AND ACI; IN-HOUSE SIA AND THIRD-PARTY TRAINING; OBSERVATION BY THE ASSOCIATE OR APPRENTICE OF INSPECTIONS PERFORMED BY CERTIFIED INSPECTORS; AND PERFORMANCE BY THE ASSOCIATE OR APPRENTICE INSPECTIORS OF DUPLICATE INSPECTIONS WITH CERTIFIED INSPECTORS. THIS WRITTEN PROGRAM WILL ALSO DEFINE THE USE OF ASSOCIATE OR APPRENTICE INSPECTORS AND WILL LIMIT THEIR USE BASED UPON THE LEVEL OF SUPERVISION AND THE COMPLEXITY OF THE INSPECTION ASSIGNMENT. THE COMPLEXITY OF AN ASSIGNMENT SHALL BE MINIMAL AND/OR TASK SPECIFIC. SUPERVISION SHALL BE DIRECT, WITH A CERTIFIED INSPECTOR BEING PRESENT AT THE SITE WITH THE ASSOCIATE OR APPRENTICE. THE ASSOCIATE OR APPRENTICE TO CERTIFIED INSPECTOR RATIO ON A PROJECT SITE SHALL NOT EXCEED 1:1. ALL DOCUMENTS RELATED TO WORK BY AN ASSOCIATE OR APPRENTICE INSPECTOR MUST BE COSIGNED BY A CERTIFIED INSPECTOR. THE WRITTEN PROGRAM MUST INCLUDE DOCUMENTATION OF COMPLIANCE WITH THE PROGRAM.

b. WHEN QUALIFICATIONS FOR SPECIAL INSPECTORS ARE LOCALLY DEFINED, BY STATUTE, ORDIANCE OR RULE THAT MEET OR EXCEED THE REQUIREMENTS OUTLINED IN THIS CRITERIA, THESE LOCAL REQUIREMENTS SHALL BE RECOGNIZED.

c. APPLICANTS SHALL COMPLY WITH ONE OF THE FOLLOWING EDUCATION AND EXPERIENCE REQUIREMENTS:
1. PE, LICENSED ARCHITECTS OR BDP, AND A MINIMUM OF THREE MONTHS OF RELEVANT WORK EXPERIENCE; OR
2. BS IN ENGINEERING, ARCHITECTURE OR PHYSICAL SCIENCE, AND A MINIMUM OF SIX MONTHS OF RELEVANT WORK EXPERIENCE; OR
3. TWO YEARS OF VERIFIED COLLEGE OR TECHNICAL SCHOOL (A COPY OF DIPLOMA OR TRANSCRIPT REQUIRED), AND A MINIMUM OF ONE YEAR OF RELEVANT WORK EXPERIENCE; OR
4. HIGH SCHOOL OR EQUIVALENT GRADUATE (A COPY OF DIPLOMA OR CERTIFICATE REQUIRED), AND A MINIMUM OF TWO YEARS OF VERIFIED RELEVANT WORK EXPERIENCE; OR
5. A MINIMUM OF THREE YEARS OF VERIFIED RELAVANT WORK EXPERIENCE.

d. PE, LICENSED ARCHITECTS OR DRP ARE EXEMP FROM THE REQUIRED CERTIFICATIONS LISTED ON THIS TABLE, BUT ARE SUBJECT TO ON-SITE ASSESSMENT OF COMPETENCE BY IAS.

ABBREVIATIONS

PE/SE	STRUCTURAL ENGINEER – A LICENSED SE OR PE SPECIALIZING IN THE DESIGN OF BUILDING STRUCTURES
PE/GE	GEOTECHNICAL ENGINEER – A LICENSED PE SPECIALIZING IN SOIL MECHANICS AND FOUNDATIONS
EIT	ENGINEER-IN-TRAINING – A GRADUATE ENGINEER WHO HAS PASSED THE FUNDAMENTALS OF ENGINEERING EXAMINATION
AMERICAN CONCRETE INSTITUTE (ACI) CERTIFICATION	
ACI-CFTT	CONCRETE FIELD TESTING TECHNICIAN – GRADE 1
ACI-CCI	CONCRETE CONSTRUCTION INSPECTOR
ACI-LTT	LABORATORY TESTING TECHNICIAN – GRADE 1&2
ACI-STT	STRENGTH TESTING TECHNICIAN
AMERICAN WELDING SOCIETY (AWS) CERTIFICATION	
AWS-CWI	CERTIFIED WELDING INSPECTOR
AWS/AISC-SSI	CERTIFIED STRUCTURAL STEEL INSPECTOR
AMERICAN SOCIETY OF NON-DESTRUCTIVE TESTING (ASNT) CERTIFICATION	
ASNT	NON-DESTRUCTIVE TESTING TECHNICIAN – LEVEL II OR III.
INTERNATIONAL CODE COUNCIL (ICC) CERTIFICATION	
ICC-SMSI	STRUCTURAL MASONRY SPECIAL INSPECTOR
ICC-SWSI	STRUCTURAL STEEL AND WELDING SPECIAL INSPECTOR
ICC-SFSI	SPRAY-APPLIED FIREPROOFING SPECIAL INSPECTOR
ICC-PCSI	PRESTRESSED CONCRETE SPECIAL INSPECTOR
ICC-RCSI	REINFORCED CONCRETE SPECIAL INSPECTOR
NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET)	
NICET-CT	CONCRETE TECHNICIAN – LEVELS I, II, III & IV
NICET-ST	SOILS TECHNICIAN - LEVELS I, II, III & IV
NICET-GET	GEOTECHNICAL ENGINEERING TECHNICIAN - LEVELS I, II, III & IV
EXTERIOR DESIGN INSTITUTE (EDI) CERTIFICATION	
EDI-EIFS	EIFS THIRD PARTY INSPECTOR

IBC 2012 - TABLE 1705.2.2
REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL

VERIFICATION AND INSPECTION	APPLICABLE TO THIS PROJECT	CONTINUOUS	PERIODIC	REFERENCED STANDARD[a]
1. *MATERIAL VERIFICATION OF COLD FORMED STEEL DECK:*				
a. IDENTIFICATION MARKINGS CONFORMING TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	Y	-	X	APPLICABLE ASTM MATERIAL STANDARDS
b. MANUFACTURER'S CERTIFIED TEST REPORTS.	Y	-	X	
2. *INSPECTION OF WELDING:*				
a. *COLD-FORMED STEEL DECK:*				
1) FLOOR AND ROOF DECK WELDS.	Y	-	X	AWS D1.3
b. *REINFORCING STEEL:*				
1) VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706.	Y	-	X	AWS D1.4 ACI 318: SECTION 3.5.2
2) REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALLS OF CONCRETE AND SHEAR REINFORCEMET.	Y	X	-	
3) SHEAR REINFORCEMENT.	Y	X	-	
4) OTHER REINFORCING STEEL.	Y	-		

a. WHERE APPLICABLE, SEE ALSO SECTION 1705.11, SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE.

IBC 2012 - TABLE 1705.3
REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	APPLICABLE TO THIS PROJECT	CONTINUOUS	PERIODIC	REFERENCED STANDARD[a]	IBC REFERENCE
1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT.	Y	-	X	ACI 318: 3.5, 7.1-7.7	1910.4
2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1705.2.2, ITEM 2b.	N	-	-	AWS D1.4 ACI 318: 3.5.2	-
3. INSPECTION OF ANCHORS CAST IN CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED.	Y	-	X	ACI 318: 8.1.3, 21.1.8	1908.5, 1909.1
4. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS[b].	Y	-	X	ACI 318: 3.8.6, 8.1.3, 21.1.8	1909.1
5. VERIFY USE OF REQUIRED DESIGN MIX.	Y	-	X	ACI 318: CH 4, 5.2-5.4	1904.2, 1910.2, 1910.3
6. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	Y	X	-	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8	1910.10
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	Y	X	-	ACI 318: 5.9, 5.10	1910.6, 1910.7, 1910.8
8. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	Y	-	X	ACI 318: 5.11-5.13	1910.9
9. INSPECTION OF PRESTRESSED CONCRETE:					
a. APPLICATION OF PRESTRESSING FORCES	N	X	-	ACI 318: 18.20	-
b. GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC FORCE-RESISTING SYSTEM	N	X	-	ACI 318: 18.18.4	-
10. ERECTION OF PRECAST CONCRETE MEMBERS.	N	-	X	ACI 318: CH 6	-
11. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS ANS STRUCTURAL SLABS.	N	-	X	ACI 318: 6.2	-
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	Y	-	X	ACI 318: 6.1.1	-

a. WHERE APPLICABLE, SEE ALSO SECTION 1705.11, SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE.

b. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH ACI 355.2 OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK.

IBC 2012 - TABLE 1705.6
REQUIRED VERIFICATION AND INSPECTION OF SOILS

VERIFICATION AND INSPECTION TASK	APPLICABLE TO THIS PROJECT	CONTINUOUS	PERIODIC
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	Y	-	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	Y	-	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	Y	-	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	Y	X	-
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED	Y	-	X

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CLASSROOM ADDITION TO LEWISBURG ELEMENTARY SCHOOL

DESOTO COUNTY SCHOOL BOARD
DESOTO COUNTY, MISSISSIPPI

No.	Revision	Date

STRUCTURAL SPECIAL INSPECTIONS

JOB NO: 62556
DATE: 12.06.16
DRAWN: TBH
CHECKED:
CAD FILE:

MICHAEL EDWARD SHERIDAN
REGISTERED PROFESSIONAL ENGINEER
13590
12-6-16
STATE OF MISSISSIPPI

LEWISBURG ELEMENTARY

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TYP. ALL SLABS:
4" Concrete Slab-On-Grade
W/ Layer 6x6-W1.4xW1.4 W.W.F.
(f'c = 3,000 PSI)
F.F.E. = (-0'-0")

1 Foundation Plan
1/8" = 1'-0"

PLAN NOTES:
1. 4" SLAB ON GRADE W/ LAYER 6X6-W1.4X1.4 W.W.F. (F'C = 3000 PSI)
2. 4" STONE SUB-BASE W/ 10 MIL. VAPER BARRIER
3. FINISHED FLOOR ELEVATION = 0'-0" => 200'-0" M.S.L.) U.N.O. ON PLAN
4. SEE S1.00 FOR GENERAL NOTES
5. SEE S3.00/S3.01 FOR TYPICAL MASONRY WALL SECTIONS AND DETAILS
6. SEE S4.00 SERIES FOR FRAMING DETAILS
7. COORDINATE & VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS

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CLASSROOM ADDITION TO LEWISBURG ELEMENTARY SCHOOL

DESOTO COUNTY SCHOOL BOARD

DESOTO COUNTY, MISSISSIPPI

No.	Revision	Date

FOUNDATION PLAN

JOB NO: 62556
DATE: 12.06.16
DRAWN: TBH
CHECKED:
CAD FILE:

MITCHELL EDWARD SHEELY
LICENSED PROFESSIONAL ENGINEER
13590 12-6-2016
STATE OF MISSISSIPPI

LEWISBURG ELEMENTARY

S2.00

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

PLAN NOTES:
1. SEE S1.00 FOR GENERAL NOTES
2. SEE S3.00 SERIES FOR TYPICAL MASONRY SECTIONS AND DETAILS
3. SEE S4.00 SERIES FOR FRAMING DETAILS
4. DECK: 1 1/2" TYPE B 22GA STEEL ROOF DECK, TYP. U.N.O.
5. ALL JOISTS TO BE SPACED EQUALLY IN BAYS U.N.O. ON PLANS
6. COORDINATE AND VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS
7. JOIST BEARING ELEVATIONS NOTED ON PLAN, TYP. U.N.O.
8. ALL MASONRY LINTELS SHALL BE CONSIDERED TO BE TYPE L2 LINTELS, TYP. U.N.O. & TYPE L3 LINTELS AT VESTIBULE, TYP. U.N.O.
9. ALL JOISTS SUPPORTING MECHANICAL TO BE VERIFIED BY JOIST MANUFACTURER

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CLASSROOM ADDITION TO LEWISBURG ELEMENTARY SCHOOL

DESOTO COUNTY SCHOOL BOARD

DESOTO COUNTY, MISSISSIPPI

No.	Revision	Date

ROOF FRAMING PLAN

JOB NO: 62556
DATE: 12.06.16
DRAWN: TBH
CHECKED:
CAD FILE:

MICHAEL EDWARD SHERIDAN
REGISTERED PROFESSIONAL
ENGINEER
13590
STATE OF MISSISSIPPI
12-6-2016

LEWISBURG ELEMENTARY

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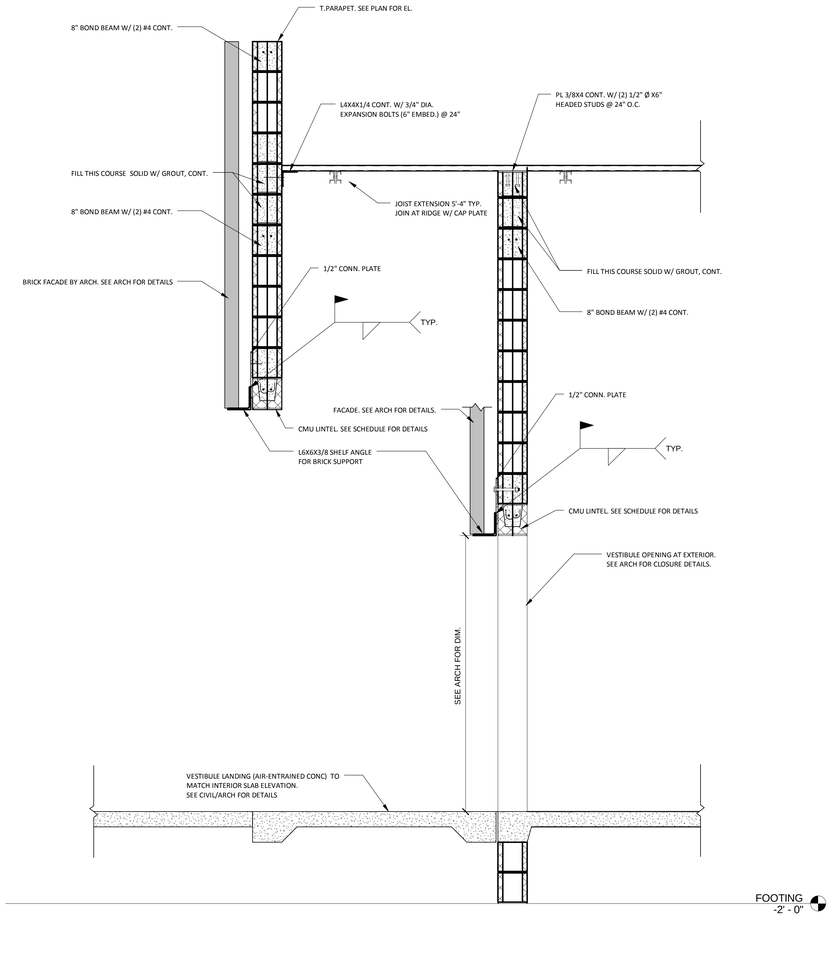
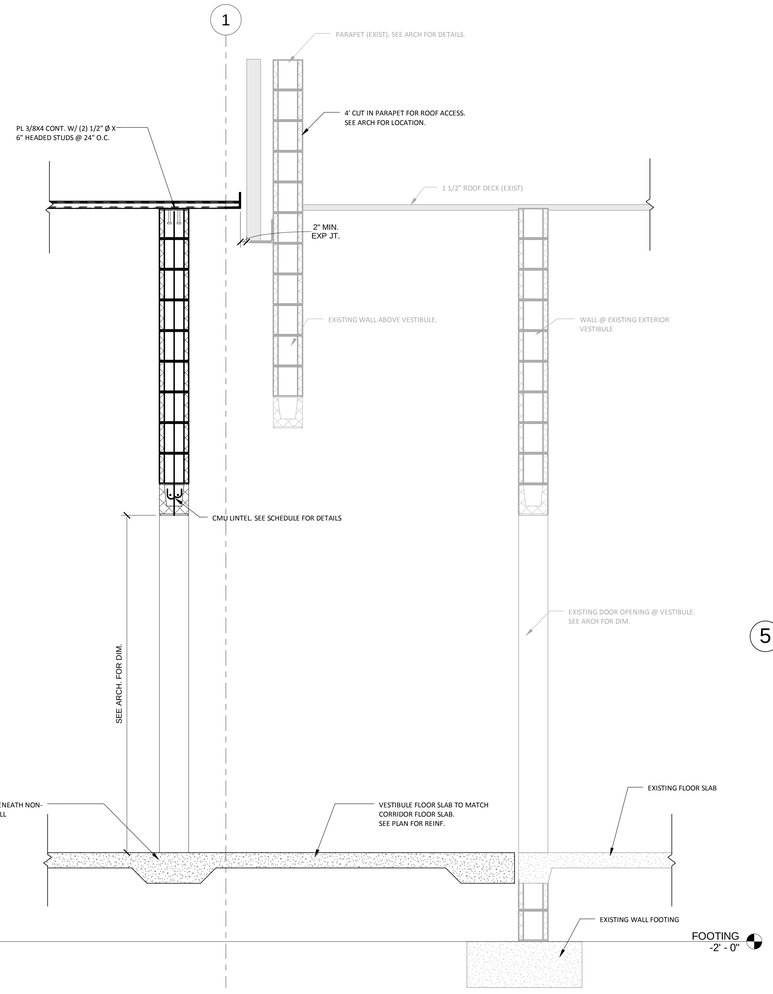
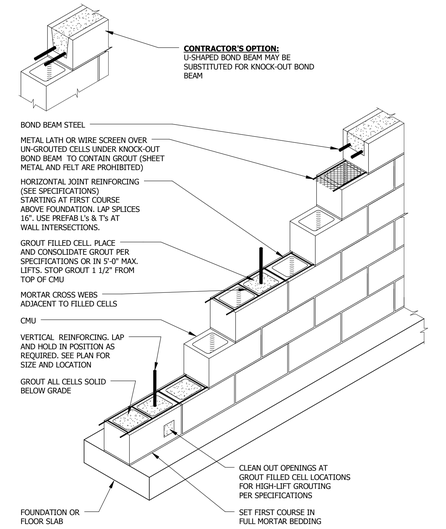


1 SECTION @ EXTERIOR VESTIBULE
3/4" = 1'-0"



2 SECTION @ INTERIOR VESTIBULE
3/4" = 1'-0"



NOTE:
SEE STRUCTURAL NOTES AND DETAILS FOR REINFORCEMENT SIZE AND SPACING.

5 TYPICAL CMU WALL CONSTRUCTION
3/4" = 1'-0"

CONCRETE MASONRY UNIT WALL REINFORCING LAP LENGTH SCHEDULE

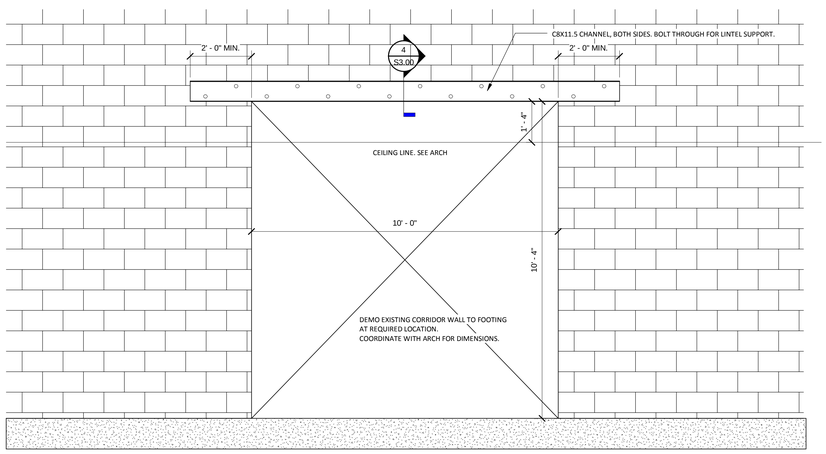
TENSION OR COMPRESSION LAP SPLICE LENGTHS, (INCHES) FOR GRADE 60 (2) UNCOATED BARS (3); MASONRY

	LAP LENGTH	
BAR SIZE (4)	CASE A (5)	CASE B (5)
#3	15	27
#4	20	36
#5	25	45
#6	30	54
#7	35	63
#8	40	72
#9	46	82

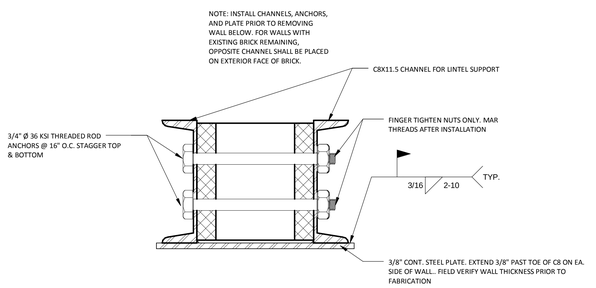
NOTES:

1. LAP SPLICE LENGTHS ARE BASED ON SECTION 2107 OF THE BUILDING CODE.
2. MULTIPLY ABOVE LAP LENGTHS BY 1.25 FOR GRADE 75 REINFORCING STEEL.
3. MULTIPLY ABOVE LAP LENGTHS BY 1.50 FOR EPOXY COATED BARS.
4. REINFORCEMENT LARGER THAN #9 SHALL BE SPLICED USING MECHANICAL CONNECTIONS.
5. USE CASE B UNLESS NOTED OTHERWISE ON PLANS OR DETAILS.

6 CMU REINFORCING SCHEDULE
3/4" = 1'-0"



3 OPENING AT EXISTING CORRIDOR
1/2" = 1'-0"



4 CHANNEL LINTEL AT WALL OPENING
3" = 1'-0"

WALL SCHEDULE

TYPE	WIDTH	HORIZ. REINF.	VERT REINF.	GROUT STRENGTH
NBW1	0' - 5 5/8"	#4 @ 48" O.C.	#4 @ 48" O.C.	f'm = 1500psi
NBW2	0' - 7 5/8"	#4 @ 48" O.C.	#4 @ 48" O.C.	f'm = 1500psi
SW1	0' - 7 5/8"	#4 @ 48" O.C.	#5 @ 40" O.C.	f'm = 1500psi

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CLASSROOM ADDITION TO LEWISBURG ELEMENTARY SCHOOL

DESOTO COUNTY SCHOOL BOARD

DESOTO COUNTY, MISSISSIPPI

No.	Revision	Date

WALL SECTIONS/DETAILS

JOB NO: 62556
DATE: 12.06.16
DRAWN: TBH
CHECKED:
CAD FILE:

MICHAEL EDWARD SHERIDAN
REGISTERED PROFESSIONAL ENGINEER
13590
12-6-2016
STATE OF MISSISSIPPI

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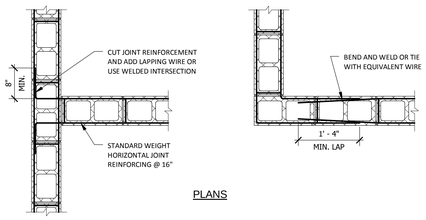
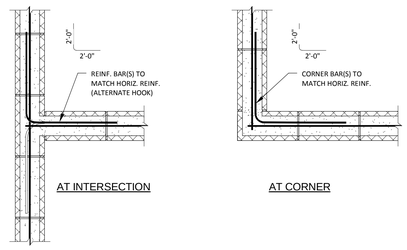
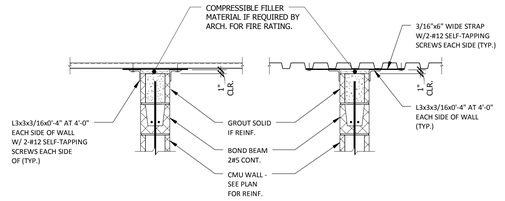


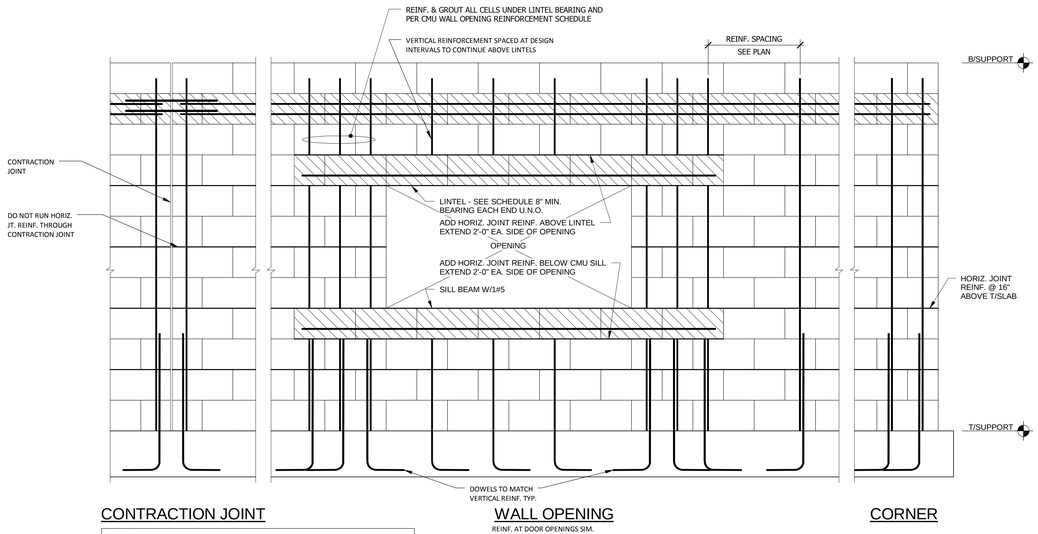
1 JOINT REINF. AT INTERSECTING CMU WALLS
3/4" = 1'-0"



2 BOND BEAM REINF. AT INTERSECTING CMU WALL
3/4" = 1'-0"



5 TYP.CMU WALL BRACING DETAIL AT ROOF DECK
3/4" = 1'-0"



NOTES:
1. SEE STRUCTURAL NOTES FOR MAXIMUM SPACING OF CONTROL JOINTS.
2. LOCATE CONTROL JOINTS 2'-0" MINIMUM FORM SIDES OF OPEINGS

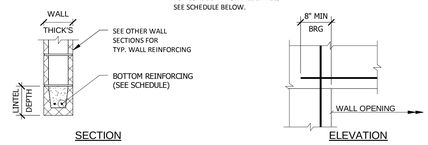
3 TYPICAL CMU WALL REINFORCING - ELEVATION (NON-LOAD BEARING WALLS)
3/4" = 1'-0"

NOTE:
REINF. CMU CORE @ LINTEL BRG. W/1-#5 (MIN) VERT (TYP.,UNO, SEE 1/S3.00)

UN-MARKED CMU LINTEL REINFORCEMENT

WALL OPENING WIDTH	LINTEL DEPTH	REINFORCING
UP TO 4'-0"	8"	2#4 BOTTOM
4'-1" TO 6'-0"	8"	2#5 BOTTOM
6'-1" TO 8'-0"	16"	2#5 BOTTOM
8'-1" TO 10'-0"	16"	2#6 BOTTOM

FOR LOADBEARING WALL LINTELS SEE SCHEDULE BELOW.

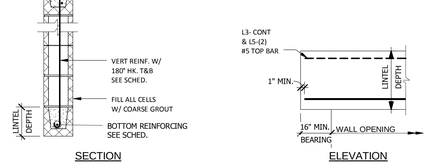


AT NON-BEARING CMU WALL ONLY

NOTE:
1. FILL CMU CORES AT AT LINTEL BEARING W/ 2500 PSI COURSE GROUT AND #5 VERT CONT. AS SHOWN IN DET 1/S300 TYP. FULL HEIGHT

MARKED CMU LINTEL REINFORCEMENT

MARK	WALL THICK	LINTEL DEPTH	REINFORCMENT	
			BOTTOM	VERTICAL
L1	8"	16"	2-#5	-
L2	8"	24"	2-#5	#4@16"

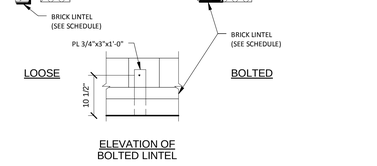


4 CMU LINTEL SCHEDULE
3/4" = 1'-0"

BRICK LINTEL SCHDULE

OPENING WIDTH	ANGLE SIZE	REMARKS
UP TO 4'-0"	L3 1/2"X3 1/2" X 1/4"	LOOSE
4'-1" TO 8'-0"	L6"X3 1/2" X 5/16" (LLV)	LOOSE
OVER 8'-0"	L6"X6"X5/8"	BOLTED W/ 5/8ø EXPANSION ANCHORS @ 2'-0"(4 1/2" EMBED.)

NOTE: 1.
LINTELS SHALL BEAR 8" MIN. EACH END (MIN.)- TYP.



6 BRICK LINTEL SCHEDULE
3/4" = 1'-0"

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Michel Lebel, Architect
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CLASSROOM ADDITION TO LEWISBURG ELEMENTARY SCHOOL

DESOTO COUNTY SCHOOL BOARD

DESOTO COUNTY, MISSISSIPPI

No.	Revision	Date

WALL SECTIONS/DETAILS

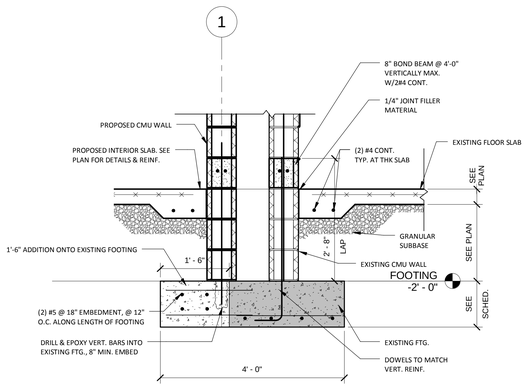
JOB NO: 62556
DATE: 12.06.16
DRAWN: TBH
CHECKED:
CAD FILE:

MICHAEL EDWARD SEBERT — REGISTERED PROFESSIONAL ENGINEER — 13590 — STATE OF MISSISSIPPI — 12-6-2016

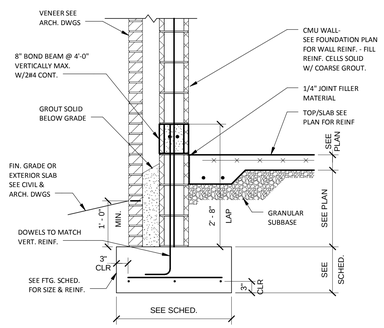
LEWISBURG ELEMENTARY

S3.01

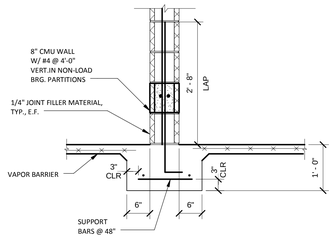
12/12/2016 10:42:17 AM



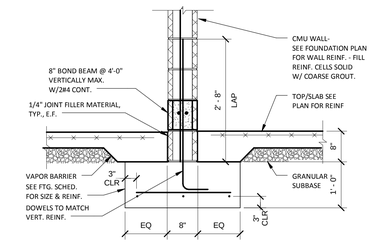
1 SECTION @ FOOTING ADDITION
3/4" = 1'-0"



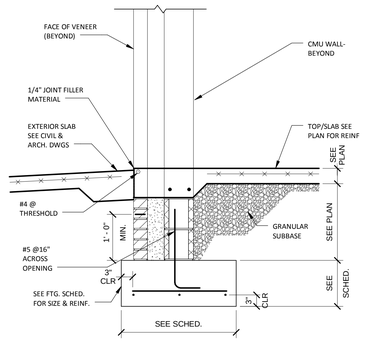
2 EXTERIOR WALL FOOTING
3/4" = 1'-0"



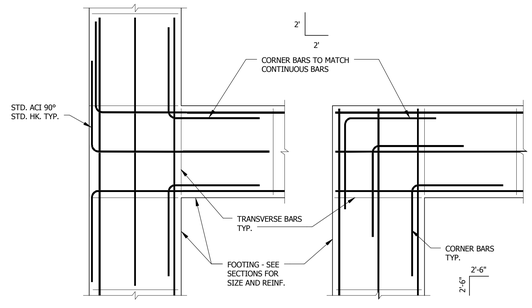
3 THICKENED SLAB AT NON-LOAD BEARING WALL
3/4" = 1'-0"



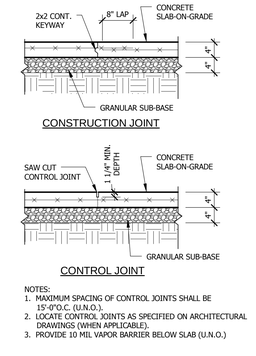
4 SECTION AT INTERIOR LOAD BEARING WALL
3/4" = 1'-0"



5 SECTION AT DOOR OPENING
3/4" = 1'-0"

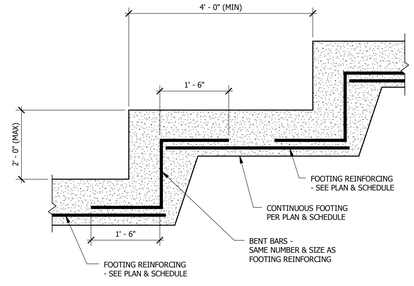


6 TYPICAL WALL FOOTING INTERSECTION REINFORCING PLAN
3/4" = 1'-0"

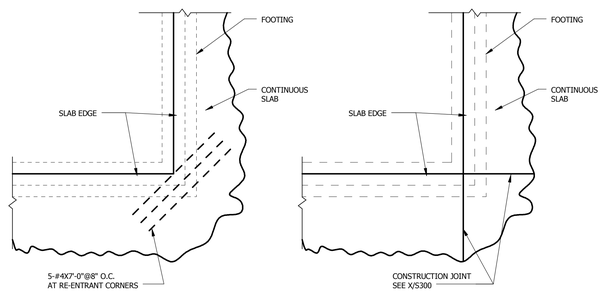


NOTES:
1. MAXIMUM SPACING OF CONTROL JOINTS SHALL BE 15'-0"O.C. (U.N.O.).
2. LOCATE CONTROL JOINTS AS SPECIFIED ON ARCHITECTURAL DRAWINGS (WHEN APPLICABLE).
3. PROVIDE 10 MIL VAPOR BARRIER BELOW SLAB (U.N.O.)

7 SLAB-ON-GRADE DETAILS
3/4" = 1'-0"



8 TYPICAL FOOTING STEP DETAIL
3/4" = 1'-0"



9 FLOOR SLAB PLACEMENT
3/4" = 1'-0"

FOOTING SCHEDULE

Type	WIDTH	THICKNESS	LONGITUDINAL REINF.	TRANSVERSE REINF.
W30	2' - 6"	1' - 0"	(4) #4 x Cont.	#5 @ 40" O.C.

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CLASSROOM ADDITION TO LEWISBURG ELEMENTARY SCHOOL

DESOTO COUNTY SCHOOL BOARD

DESOTO COUNTY, MISSISSIPPI

No.	Revision	Date

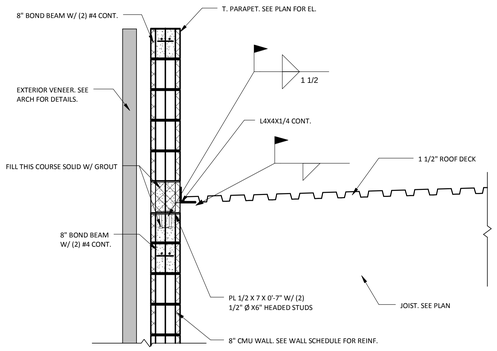
FOUNDATION DETAILS

JOB NO: 62556
DATE: 12.06.16
DRAWN: TBH
CHECKED:
CAD FILE:

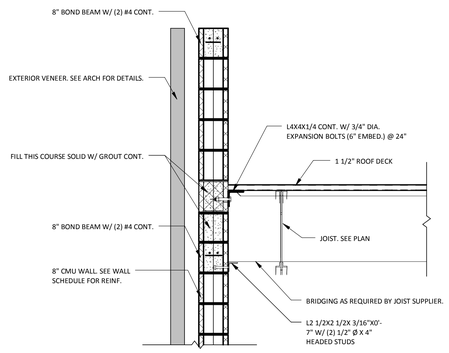
LEWISBURG ELEMENTARY

S3.02

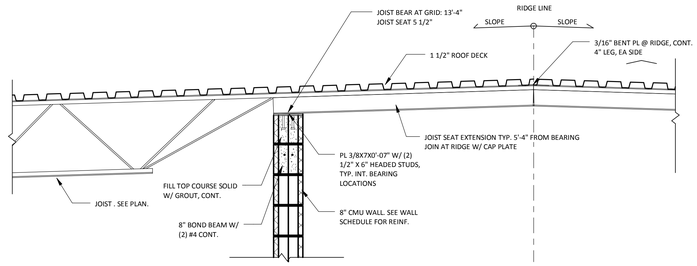
12/12/2016 10:42:23 AM



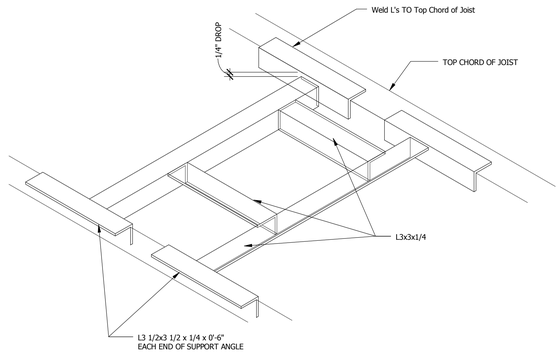
1 SECTION @ EXTERIOR JOIST BEAR TYP
3/4" = 1'-0"



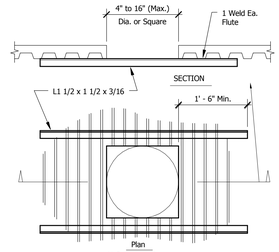
2 SECTION @ EXTERIOR JOIST PARALLEL
3/4" = 1'-0"



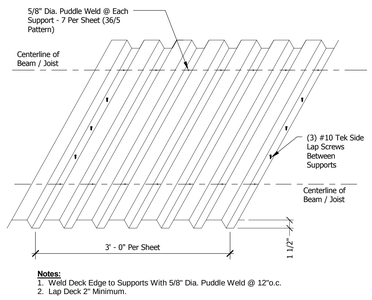
3 SECTION @ INTERIOR BEARING CONDITION
3/4" = 1'-0"



4 TYPICAL ROOF OPENING LARGER THAN (16"Ø or SQUARE)
3/4" = 1'-0"

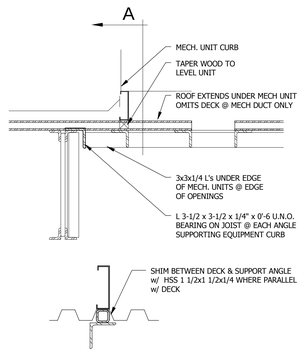


5 TYPICAL ROOF OPENING (4" TO 16"Ø OR SQUARE)
3/4" = 1'-0"



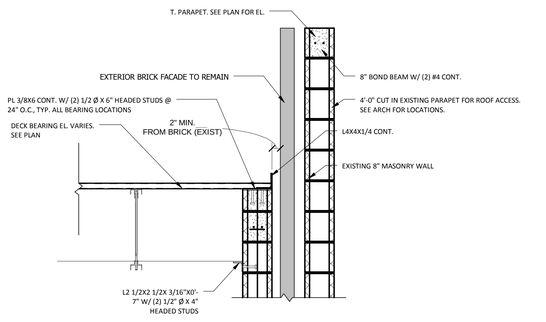
6 ROOF DECK ATTACHMENT DETAIL
3/4" = 1'-0"

7 TYPICAL JOIST MODIFICATION DETAIL
3/4" = 1'-0"



SECTION A

8 DETAIL @ MECHANICAL UNIT SUPPORT
3/4" = 1'-0"



9 EXPANSION JOINT @ EXISTING, TYP.
3/4" = 1'-0"

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CLASSROOM ADDITION TO LEWISBURG ELEMENTARY SCHOOL

DESOTO COUNTY SCHOOL BOARD

DESOTO COUNTY, MISSISSIPPI

No.	Revision	Date

FRAMING SECTIONS/DETAILS

JOB NO: 62556
DATE: 12.06.16
DRAWN: TBH
CHECKED:
CAD FILE:

MICHAEL EDWARD LEBEL REGISTERED PROFESSIONAL ENGINEER 13590 STATE OF MISSISSIPPI 12-2-2016

LEWISBURG ELEMENTARY

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MECHANICAL LEGEND

G	LOW PRESSURE NATURAL GAS (0.5 PSIG)
V	VENT PIPE
	COIL CONDENSATE
	GATE VALVE
	UNION
	SEISMIC PIPE SUPPORT
	PIPE CAP
	DIRECTION OF DOWNWARD PIPE SLOPE
	FLEXIBLE DUCT CONNECTION
	OPPOSED BLADE DAMPER
	FLEXIBLE DUCTWORK
	FIRE DAMPER
	FIRE/SMOKE DAMPER
	SUPPLY DIFFUSER
100 CFM / 1	DIFFUSER CFM AND TYPE
	RETURN/EXHAUST AIR DEVICE
101 PRV	PRESSURE REDUCING VALVE

SP	STATIC PRESSURE
ESP	EXTERNAL STATIC PRESSURE
LAT	LEAVING AIR TEMPERATURE
EAT	ENTERING AIR TEMPERATURE
EWT	ENTERING WATER TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
UH–A1	GAS UNIT HEATER
EF–A1	EXHAUST FAN
RTU–A1	ROOF TOP UNIT
DN	DOWN
OSA	OUTSIDE AIR
EAD	EXHAUST AIR DUCT
RA	RETURN AIR
RAD	RETURN AIR DUCT
SA	SUPPLY AIR
SAD	SUPPLY AIR DUCT
TAD	TRANSFER AIR DUCT
AFF	ABOVE FINISHED FLOOR
RV	RELIEF HOOD
CFM	CUBIC FEET PER MINUTE
T	THERMOSTAT
BDD.	BACKDRAFT DAMPER
TYP	TYPICAL
HV–F1	HEATING–VENTILATION UNIT
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
	AIRFLOW DIRECTION
8ø	ROUND DUCTWORK
EUH–A1	ELECTRIC UNIT HEATER
VAD	VOLUME DAMPERS
HPG	HIGH PRESSURE GAS
LPG	LOW PRESSURE GAS
OA–A1	OUTSIDE AIR UNIT

	SUPPLY DUCT IN SECTION
	RETURN/EXHAUST DUCT IN SECTION
SD	SMOKE DETECTOR
10x6	RECTANGULAR DUCT (WIDTHxDEPTH)
	ACOUSTICAL LINING
	AIRFLOW UNDER DOOR
	VOLUME DAMPER
M	MOTORIZED DAMPER
100	ROOM NUMBER
	TURNING VANES
	RELIEF DAMPER
FS	FIRESTAT
S	TIME SWITCH
P	MANUAL PUSH BUTTON INTERLOCK W/ HOOD FIRE SUPPRESSION SYSTEM
H	HUMIDITY SENSOR
C	CO2 SENSOR
	CONNECT TO EXISTING

GENERAL NOTES

1. ALL PIPING AND DUCTS IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN FURRED CHASES OR SUSPENDED CEILING UNLESS OTHERWISE NOTED.
2. ACCESS PANELS IN SUSPENDED CEILINGS ARE REQUIRED FOR ALL VALVES, DAMPERS, CONTROLS, ETC., AND SHALL BE FURNISHED AND INSTALLED UNDER ARCHITECTURAL SPECIFICATIONS.
3. VERIFY LOCATION OF NEW EQUIPMENT AND APPURTENANCES.
4. COORDINATE THE HEATING, VENTILATION AND AIR CONDITIONING WORK WITH THE WORK OF ALL OTHER TRADES INVOLVED WITH THIS PROJECT.
5. SEE ARCHITECTURAL CEILING PLAN FOR EXACT LOCATION OF CEILING AIR DEVICES. AIR DEVICE LOCATION ON MECHANICAL SHEETS ARE FOR QUANTITY AND REFERENCE.
6. DUCTWORK DIMENSIONS ARE INSIDE CLEAR DIMENSIONS.
7. CONTRACTOR TO COORDINATE RTU #'S ON ID TAGS TO MATCH ROOM NUMBERS. LABEL RTU & T–STAT.

BALANCING NOTES:

TESTING & BALANCING TO BE PERFORMED BY ONE OF THE FOLLOWING CONTRACTORS. NO SUBSTITUTES.

1. ENVIROMENTAL TEST & BALANCE
2. AIR TECHNICAL SERVICES

CONTROLS

1. ALL CONSTANT VOLUME RTU TO HAVE PROGRAMMABLE ELECTRONIC NIGHT SETBACK THERMOSTAT WITH BATTERY BACKUP. HEATING SETBACK AND COOLING SETUP WITH 7 DAY, 5–1–1 PROGRAMMING CAPABILITY.
2. THERMOSTATS FOR RTU–B7, B8, B9 AND B10 SHALL BE HEATING COOLING WITH AUTOMATIC CHANGEOVER. EACH RTU SHALL HAVE A CONTROL PANEL WITH A 2 WIRE TEMPERATURE SENSOR FOR EACH VAD DAMPER. PROVIDE ONE CENTRAL PANEL PER EACH VARIABLE VOLUME RTU SYSTEM EQUAL TO TRANE VARITRAC II.

CONTROLS ADD ALTERNATE

PROVIDE DDC CONTROLS PER SPECIFICATIONS CONNECT TO EXISTING FMCS

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CLASSROOM ADDITION TO LEWISBURG ELEMENTARY SCHOOL

1717 Craft Road
Olive Branch, MS 38654

Desoto County School District
5 East South Street, Hernando, Mississippi 38632

No.	Revision	Date

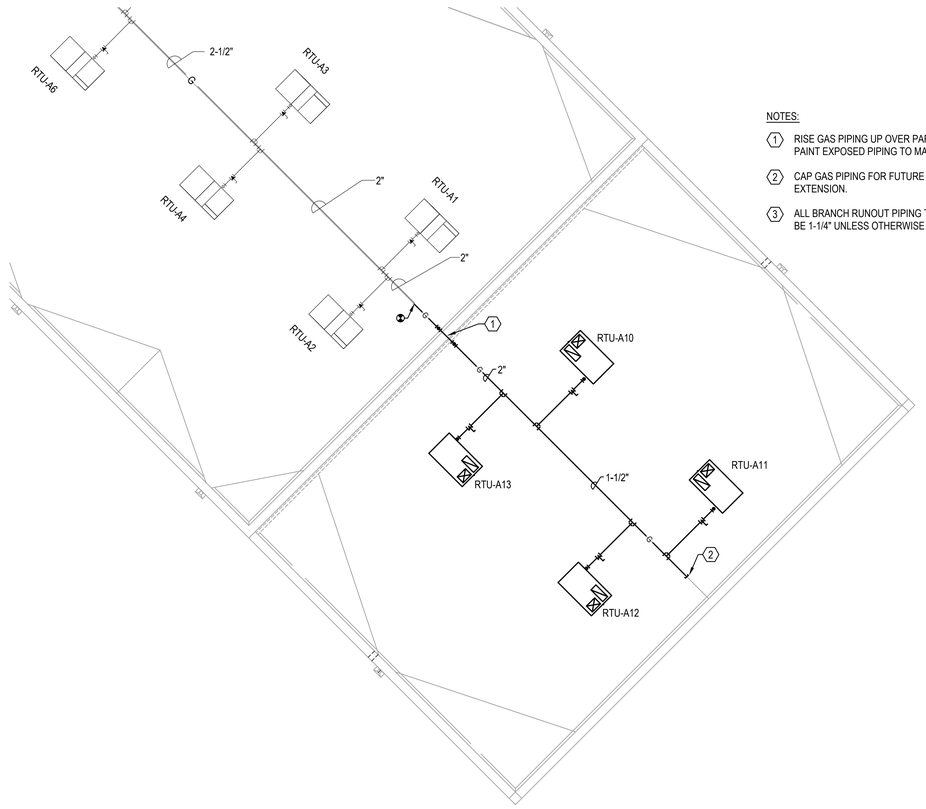
LEGEND AND GENERAL NOTES - MECHANICAL

JOB NO: 62556
DATE: 12.06.16
DRAWN: CDL
CHECKED: RLT
CAD FILE:

RONALD L. THOMSON
REGISTERED PROFESSIONAL ENGINEER
12/6/16
11596
STATE OF MISSISSIPPI

LEWISBURG ELEMENTARY

M0.1



NOTES:

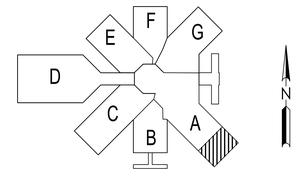
1. RISE GAS PIPING UP OVER PARAPET WALL. PAINT EXPOSED PIPING TO MATCH BRICK.
2. CAP GAS PIPING FOR FUTURE EXTENSION.
3. ALL BRANCH RUNOUT PIPING TO UNIT SHALL BE 1-1/4" UNLESS OTHERWISE NOTED.

H1 ROOF PLAN - MECHANICAL

1/8"=1'-0"

H11 FLOOR PLAN - MECHANICAL

1/8"=1'-0"



A16 KEYPLAN

NOT TO SCALE

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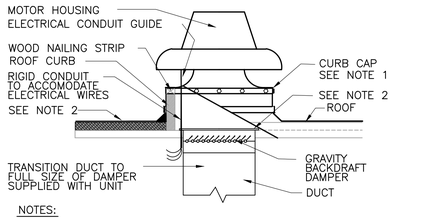
No.	Revision	Date

FLOOR PLAN - MECHANICAL

JOB NO: 62556
DATE: 12.06.16
DRAWN: RKD
CHECKED: RLT
CAD FILE: M1-1

RONALD L. THOMPSON
REGISTERED PROFESSIONAL ENGINEER
12/6/16
STATE OF MISSISSIPPI

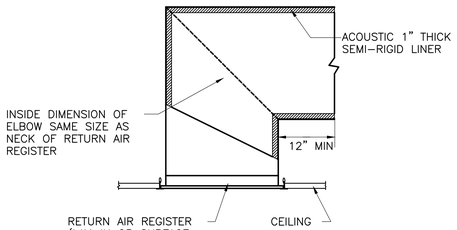
LEWISBURG ELEMENTARY
M1.1



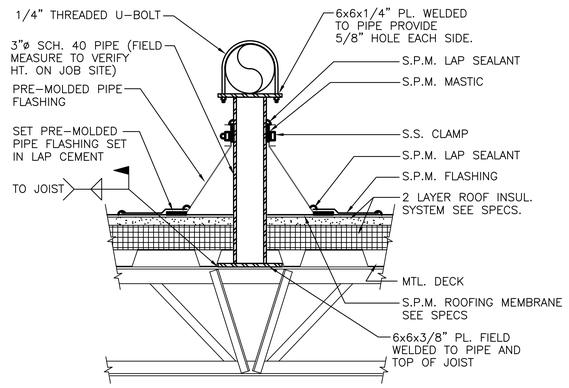
NOTES:

1. SECURE CURB CAP TO WOOD NAILING STRIP WITH 3/8" CADMIUM PLATED LAG BOLTS NOT OVER 12" ON CENTER.
2. SECURE ROOF CURB, DUCTWORK, AND DAMPER TO ROOF WITH EXPANSION BOLTS, (CONCRETE ROOF) OR RUST RESISTANT BOLTS (METAL DECK AND BAR JOIST ROOF)
3. SIZE OF DUCT THROUGH ROOF SHALL NOT BE LARGER THAN CURB SUPPLIED WITH ROOF VENTILATOR.
4. RUN ELECTRIC LINES THROUGH CLEARANCE HOLE PROVIDED IN GRAVITY DAMPER THEN THROUGH VENTILATOR ELECTRICAL CONDUIT GUIDE.

1 ROOF VENTILATOR DETAIL
NOT TO SCALE



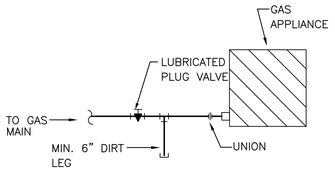
2 RETURN AIR REGISTER W/ACOUSTIC ELBOW
NOT TO SCALE



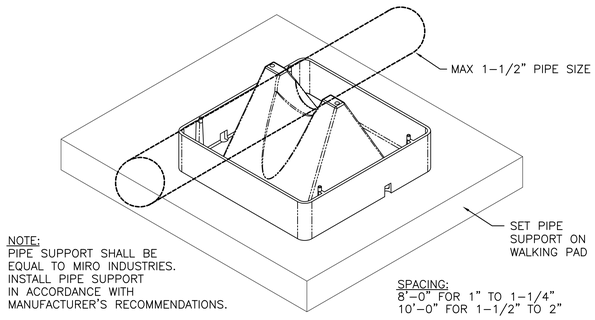
COORDINATION NOTES:

1. MECHANICAL CONTRACTOR SHALL PROVIDE ROOF GAS PIPE SEISMIC BRACING AND SHALL COORDINATE LOCATIONS WITH JOIST SUPPLIER.
2. JOIST SUPPLIER SHALL DESIGN JOISTS FOR 700 FT-LB OF MOMENT AT LOCATIONS OF SEISMIC BRACING.
3. LOCATIONS OF SEISMIC BRACING SHALL BE COORDINATED WITH G.C. FOR ROOF FLASHING OF PIPE SUPPORTS.

3 GAS PIPE SEISMIC SUPPORT ON ROOF DETAIL
NOT TO SCALE



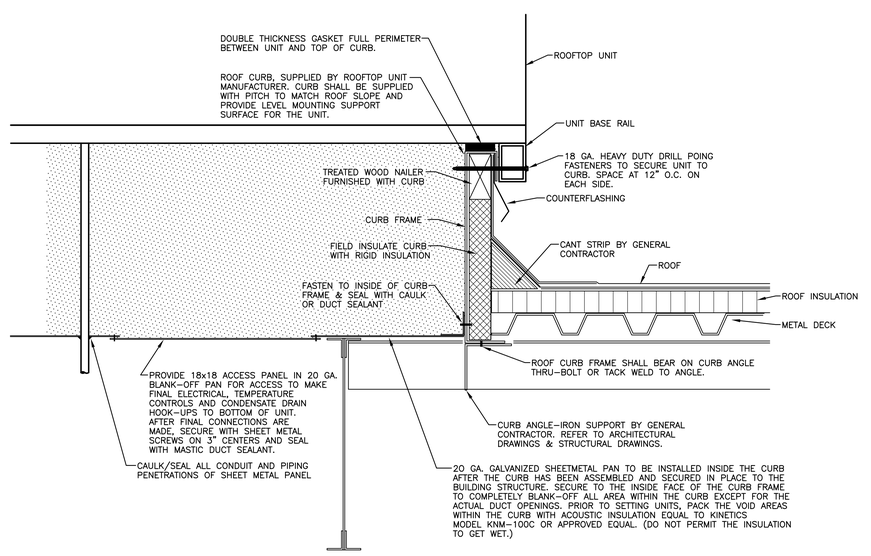
4 GAS EQUIPMENT CONNECTION DETAIL
NOT TO SCALE



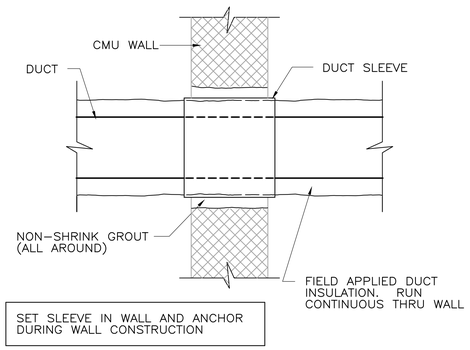
NOTE:
PIPE SUPPORT SHALL BE EQUAL TO MIRO INDUSTRIES. INSTALL PIPE SUPPORT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

SPACING:
8'-0" FOR 1" TO 1-1/4"
10'-0" FOR 1-1/2" TO 2"

5 GAS PIPE SUPPORT ON ROOF DETAIL
NOT TO SCALE

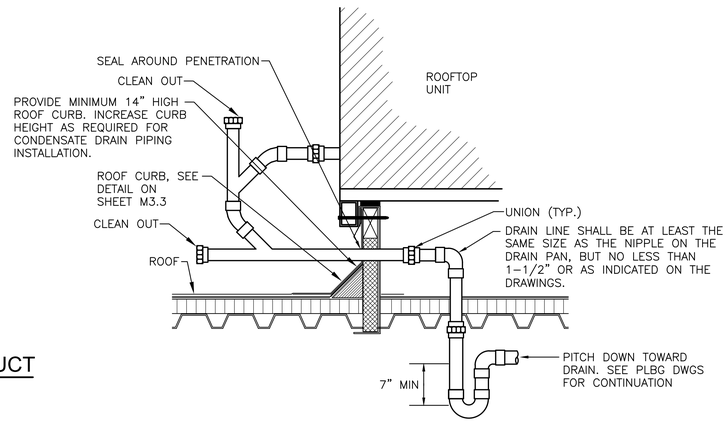


6 ROOF CURB & FLASHING DETAIL
NOT TO SCALE



SET SLEEVE IN WALL AND ANCHOR DURING WALL CONSTRUCTION

7 WALL PENETRATION - EXTERNALLY INSULATED DUCT
NOT TO SCALE



CONDENSATE DRAIN TRAP DETAIL FOR LENNOX TYPE ROOFTOP UNIT
8 NOT TO SCALE

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CLASSROOM ADDITION TO
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DETAILS - MECHANICAL

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RONALD L. THOMPSON
REGISTERED PROFESSIONAL ENGINEER
12/6/16
STATE OF MISSISSIPPI

LEWISBURG ELEMENTARY
M3.1

AIR DISTRIBUTION DEVICE SCHEDULE

MARK	NECK SIZE	FACE SIZE	MAX. N.C. RATING	MAXIMUM S.P. DROP, IN.	REMARKS
1	8"ø	24x24	30	0.1	1
2	10"ø	24x24	30	0.1	1
3	22x22	24x24	30	0.1	2

1. SUPPLY AIR DEVICE TO BE LOUVERED FACE TYPE EQUAL TO TITUS TMS
2. RETURN/EXHAUST AIR DEVICE TO BE EGG CRATE TYPE EQUAL TO TITUS 45F SERIES

PACKAGED ROOFTOP UNIT SCHEDULE

MARK	SUPPLY AIR CFM	OSA CFM	SEER	EXT. S.P.W.G	VOLTS/ PHASE	MCA/ MOCP	REFR. TYPE	DX COOLING COIL				GAS HEATING SECTION			REMARKS
								ENT. AIR TEMP. db°F	ENT. AIR TEMP. wb°F	SENSIBLE MBTU/HR	TOTAL BTU/HR	ENT. AIR TEMP °F	LVG. AIR TEMP °F	OUTPUT MBTU/HR	
RTU-A11	1100	335	17	0.5	460/3	13.7/20	410A	83.7	70	32.16	46.48	49	90	49	1,2,3
RTU-A12	1100	335	17	0.5	460/3	13.7/20	410A	83.9	70.2	32.19	46.65	49	90	49	1,2,3
RTU-A13	1100	335	17	0.5	460/3	13.7/20	410A	84.0	70	32.6	46.5	49	90	49	1,2,3
RTU-A14	1350	360	17	0.5	460/3	15.2/20	410A	83.4	69.3	40.68	57.98	49	90	49	1,2,3

1. RTU TO BE PER SPEC 23 82 00 WITH CO2 MONITOR, ECONOMIZER W/ BAROMETRIC RELIEF, DISCONNECT, HINGE FILTER DOOR, 2 STAGE COMPRESSOR, AND SEISMIC ROOF CURB
2. HOT GAS REHEAT
3. VAV SUPPLY FAN

EA - 1

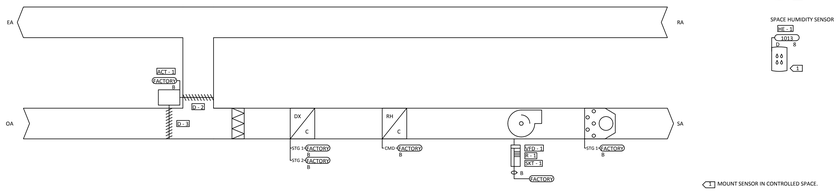
RTU - 1

BILL OF MATERIAL		
TAG	QTY.	DESCRIPTION
CO2 - 1	1	AQ SENS, CO2, WALL
HE - 1	1	HUMIDITY SENS, ROOM, 3%, TEMP
TE - 1	1	TEMP SENS, W/ 4 POS. SW + SET + OC

SPACE CO2 SENSOR

SPACE TEMPERATURE SENSOR

SPACE HUMIDITY SENSOR



1 MOUNT SENSOR IN CONTROLLED SPACE.

SEQUENCE OF OPERATIONS

RTU FLOW

BUILDING AUTOMATION SYSTEM INTERFACE:

THE BUILDING AUTOMATION SYSTEM (BAS) WILL SEND THE CONTROLLER OCCUPIED BYPASS, MORNING WARM-UP / PRE-COOL, OCCUPIED / UNOCCUPIED AND HEAT / COOL MODES. IF A BAS IS NOT PRESENT, OR COMMUNICATION IS LOST WITH THE BAS THE CONTROLLER WILL OPERATE USING DEFAULT MODES AND SETPOINTS.

OPTIMAL START:

THE BAS WILL MONITOR THE SCHEDULED OCCUPIED TIME, OCCUPIED SPACE SETPOINTS AND SPACE TEMPERATURE TO CALCULATE WHEN THE OPTIMAL START OCCURS.

MORNING WARM-UP MODE:

DURING OPTIMAL START, IF THE SPACE TEMPERATURE IS BELOW THE OCCUPIED HEATING SETPOINT A MORNING WARM-UP MODE WILL BE ACTIVATED. WHEN MORNING WARM-UP IS INITIATED THE UNIT WILL ENABLE THE HEATING AND SUPPLY FAN. THE OUTSIDE AIR DAMPER WILL REMAIN CLOSED. WHEN THE SPACE TEMPERATURE REACHES THE OCCUPIED HEATING SETPOINT (ADJ.), THE UNIT WILL TRANSITION TO THE OCCUPIED MODE.

OPTIMAL STOP:

THE BAS WILL MONITOR THE SCHEDULED UNOCCUPIED TIME, OCCUPIED SETPOINTS AND SPACE TEMPERATURE TO CALCULATE WHEN THE OPTIMAL STOP OCCURS. WHEN THE OPTIMAL STOP MODE IS ACTIVE THE UNIT CONTROLLER WILL MAINTAIN THE SPACE TEMPERATURE TO THE SPACE TEMPERATURE OFFSET SETPOINT.

OCCUPIED BYPASS:

THE BAS WILL MONITOR THE STATUS OF THE "ON" AND "CANCEL" BUTTONS OF THE SPACE TEMPERATURE SENSOR. WHEN AN OCCUPIED BYPASS REQUEST IS RECEIVED FROM A SPACE SENSOR, THE UNIT WILL TRANSITION FROM ITS CURRENT OCCUPANCY MODE TO OCCUPIED BYPASS MODE AND THE UNIT WILL MAINTAIN THE SPACE TEMPERATURE TO THE OCCUPIED SETPOINTS (ADJ.).

HEATING MODE:

THE UNIT CONTROLLER WILL MONITOR SPACE TEMPERATURE AND SPACE TEMPERATURE HEATING SETPOINT TO DETERMINE WHEN TO INITIATE REQUESTS FOR HEAT. WHEN THE SPACE TEMPERATURE DROPS BELOW THE SPACE TEMPERATURE HEATING SETPOINT, THE CONTROLLER WILL ENABLE THE FIRST STAGE OF HEAT. IF ADDITIONAL HEATING CAPACITY IS REQUIRED THE SECOND STAGE OF HEAT WILL BE ENABLED. THE SUPPLY FAN WILL REMAIN AT 100% DURING HEATING OPERATION. ONCE THE SPACE TEMPERATURE RISES ABOVE THE SETPOINT, THE HEATING STAGES WILL BE DISABLED AND THE SUPPLY FAN SPEED WILL VARY ACCORDING TO VENTILATION AND COOLING MODES.

DEHUMIDIFICATION:

FACTORY INSTALLED HOT GAS REHEAT WILL ALLOW APPLICATION OF DEHUMIDIFICATION. DEHUMIDIFICATION WILL BE ALLOWED ONLY WHEN THE OUTSIDE AIR TEMPERATURE IS ABOVE 40.0 DEG. F AND BELOW 100.0 DEG. F. THE ECONOMIZER OUTSIDE AIR DAMPER WILL DRIVE TO MINIMUM POSITION DURING DEHUMIDIFICATION.

ON A CALL FOR DEHUMIDIFICATION, THE REHEAT VALVE WILL ENERGIZE AND THE COMPRESSOR WILL ENABLE. WHEN THE HUMIDITY CONTROL SETPOINT IS SATISFIED, THE VALVE WILL BE DE-ENERGIZED AND THE COMPRESSOR WILL BE DISABLED. IF THERE IS A CALL FOR COOLING FROM THE SPACE TEMPERATURE CONTROLLER, WHILE IN REHEAT, THE REHEAT VALVE WILL BE DE-ENERGIZED AND THE COMPRESSOR CONTINUES TO RUN.

DEMAND CONTROL VENTILATION (DCV):

AS THE SUPPLY FAN SPEED COMMAND VARIES BETWEEN MINIMUM AND MAXIMUM, THE BUILDING DESIGN AND DCV MINIMUM POSITION TARGETS WILL BE CALCULATED LINEARLY BETWEEN THE USER SELECTED SETPOINTS BASED ON THE INSTANTANEOUS SUPPLY FAN SPEED. THE BLDG. DESIGN AND DCV MINIMUM POSITION TARGETS WILL BE USED TO CALCULATE THE ACTIVE OA DAMPER MINIMUM POSITION TARGET BASED ON CO2 LEVELS RELATIVE TO THE ACTIVE DESIGN AND DCV CO2 SETPOINTS (1000 PPM).

THE DESIGN MINIMUM AND DCV MINIMUM OA DAMPER POSITION SETPOINTS AT MINIMUM FAN SPEED COMMAND AND THE DESIGN MINIMUM OA DAMPER POSITION SETPOINT AT MIDDLE FAN SPEED COMMAND WILL HAVE A RANGE OF 0-100% WHILE THE DESIGN MINIMUM AND DCV MINIMUM OA DAMPER POSITION SETPOINTS AT FULL FAN SPEED WILL HAVE A RANGE OF 0-50%.

SUPPLY FAN OPERATION:

THE SUPPLY FAN WILL BE ENABLED WHILE IN THE OCCUPIED MODE AND CYCLED ON DURING THE UNOCCUPIED MODE. THE UNIT CONTROLLER WILL VARY THE SUPPLY FAN SPEED TO OPTIMIZE MINIMUM FAN SPEED IN ALL COOLING MODES.

ENHANCED DEHUMIDIFICATION:

IF SPACE HUMIDITY EXCEEDS THE DEHUMIDIFICATION SETPOINTS, THE UNIT WILL ENERGIZE THE FIRST STAGE OF COMPRESSOR OPERATION WITH SUPPLY FAN AT MEDIUM SPEED. IF SPACE HUMIDITY FALLS BELOW THE DEHUMIDIFICATION SETPOINT, THE UNIT WILL TRANSITION BACK TO NORMAL HEATING OR COOLING CONTROL. IF THE SPACE HUMIDITY IS NOT RECOVERING TOWARDS THE DEHUMIDIFICATION SETPOINT IN ENHANCED DEHUMIDIFICATION MODE THEN THE UNIT WILL TRANSITION TO FULL HOT GAS REHEAT DEHUMIDIFICATION MODE.

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CLASSROOM ADDITION TO
LEWISBURG ELEMENTARY SCHOOL

1717 Craft Road
Olive Branch, MS 38654

Desoto County School District

5 East South Street, Hernando, Mississippi 38632

No.	Revision	Date

SCHEDULES - MECHANICAL

JOB NO: 62556
DATE: 12.06.16
DRAWN: CDL
CHECKED: RLT
CAD FILE:

DONALD L. THOMPSON
REGISTERED PROFESSIONAL ENGINEER
12/6/16
STATE OF MISSISSIPPI

LEWISBURG ELEMENTARY

M4.1

KEYNOTES

1. 1 1/4" HUB DRAIN WITH INLET EXTENDED UP THRU, AND TERMINATED 4" ABOVE FINISHED ROOF WITHIN 24" OF ROOF TOP UNIT DRIP PAN CONNECTION. COORDINATE EXACT LOCATION IN FIELD WITH HVAC CONTRACTOR PRIOR TO INSTALLATION. HUB DRAIN P-TRAP SHALL BE LOCATED IN CEILING SPACE BELOW ROOF.
2. EXTEND 2" CONDENSATE VENT UP THRU ROOF AND TERMINATE 12" ABOVE FINISHED ROOF.
3. ROOF TOP UNIT, SEE HVAC (M-SERIES) DRAWINGS FOR FURTHER INFORMATION.
4. EXISTING ROOF TOP UNIT.
5. PROVIDE DOWNSPOUT BOOT WITH CLEANOUT: NEENAH #R-4929-Ø13C, OR EQUIVALENT. INSTALL SHOE IN COMPLIANCE WITH MANUFACTURER'S RECOMMENDATIONS.
6. 4" STORM DRAIN. SEE CIVIL DRAWINGS FOR CONTINUATION. REFER TO CIVIL SPECIFICATION SECTION 334ØØØ STORM SEWER SYSTEM FOR PIPING MATERIALS.

LEGEND

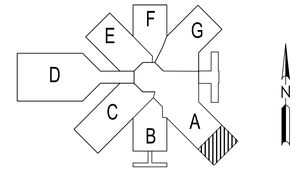
SYMBOL	DESCRIPTION
SD	STORM DRAIN (S.D.)
CD	CONDENSATE DRAIN (CD)
CD	EXISTING CONDENSATE DRAIN (CD)
SD	EXISTING STORM DRAIN (SD)
	CLEAN-OUT (C.O.)
	VENT THRU ROOF (V.T.R.)
	NEW CONNECTION

ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR	F.F.	FINISHED FLOOR
AB.	ABOVE	FCO.	FLOOR CLEANOUT
ARCH.	ARCHITECTURAL	HORIZ.	HORIZONTAL
BEL.	BELOW	MECH.	MECHANICAL
C'TOP.	COUNTERTOP	OPNG.	OPENING
CLG.	CEILING	REQD.	REQUIRED
CONN.	CONNECT(ION)	S.A.	SHOCK ABSORBER
CO.	CLEANOUT	SECT.	SECTION
CONC.	CONCRETE	STRUCT.	STRUCTURAL
DN.	DOWN	S.S.	STAINLESS STEEL
DISCH.	DISCHARGE	TYP.	TYPICAL
DWG.	DRAWING	U.N.O.	UNLESS NOTED OTHERWISE
ELEV.	ELEVATION		
ELEC.	ELECTRICAL		

GENERAL NOTES:

1. DRAWINGS SHOW ONLY THE KNOWN SERVICES IN THE VICINITY OF THE PROJECT AREA.
2. CONTRACTOR SHALL REMOVE, REWORK AND/OR REROUTE EXISTING SERVICES AS REQUIRED TO ACCOMPLISH THE WORK REQUIRED BY THIS CONTRACT.
3. CONTRACTOR SHALL VISIT THE PROJECT SITE AND FIELD VERIFY LOCATIONS, ELEVATIONS, SIZES AND DIRECTION OF FLOW FOR ALL EXISTING SERVICES PRIOR TO STARTING CONSTRUCTION.
4. EXISTING SERVICES TO REMAIN OR TO BE RELOCATED SHALL BE REPAIRED TO ORIGINAL OPERATION OR REPLACED SHOULD THEY BE DAMAGED DURING CONSTRUCTION.
5. ALL EXISTING WORK NOT SHOWN ON THESE DRAWINGS SHALL REMAIN AS-IS UNLESS NOTED OTHERWISE.
6. CONTRACTOR SHALL COORDINATE THE DISRUPTION OF ANY SERVICE WITH THE LOCAL OWNER'S REPRESENTATIVE A MINIMUM OF 72 HOURS PRIOR TO SAID DISRUPTION TO MINIMIZE ANY INCONVENIENCE TO THE OWNER/USER.
7. CONTRACTOR SHALL COORDINATE INSTALLATION WITH ALL DISCIPLINES INVOLVED TO AVOID ANY PIPE ROUTING PROBLEMS. IN THE EVENT CONFLICTS ARE ENCOUNTERED WHICH CANNOT BE RESOLVED BY THE TRADES INVOLVED, THE ENGINEER SHALL BE CONSULTED AND HIS DECISION SHALL GOVERN.
8. ALL VENTS SHALL BE A MINIMUM OF 12'-Ø" AWAY FROM ALL FRESH AIR INTAKES FOR AIR HANDLING UNITS.
9. ALL PIPING SHOWN ON THESE DRAWINGS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODE REQUIREMENTS.
10. PENETRATIONS THROUGH WALLS AND FLOORS SHALL BE SLEEVED AND/OR PATCHED AS DIRECTED BY THE SPECIFICATIONS. SEE ARCHITECTURAL DRAWINGS FOR FINAL FINISHES.
11. ALL WORK SHOWN IS PART OF BASE BID EXCEPT WHERE OTHERWISE DESIGNATED.
12. SEISMICALLY BRACE ALL PIPE AS REQUIRED BY LOCAL CODE.
13. FIELD VERIFY CEILING SPACES AND CONDENSATE DRAIN PIPE ROUTING PRIOR TO CONSTRUCTION.



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1717 Craft Road
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Desoto County School District
5 East South Street, Hernando, Mississippi 38632

No.	Revision	Date

FLOOR PLAN, LEGEND AND NOTES - PLUMBING

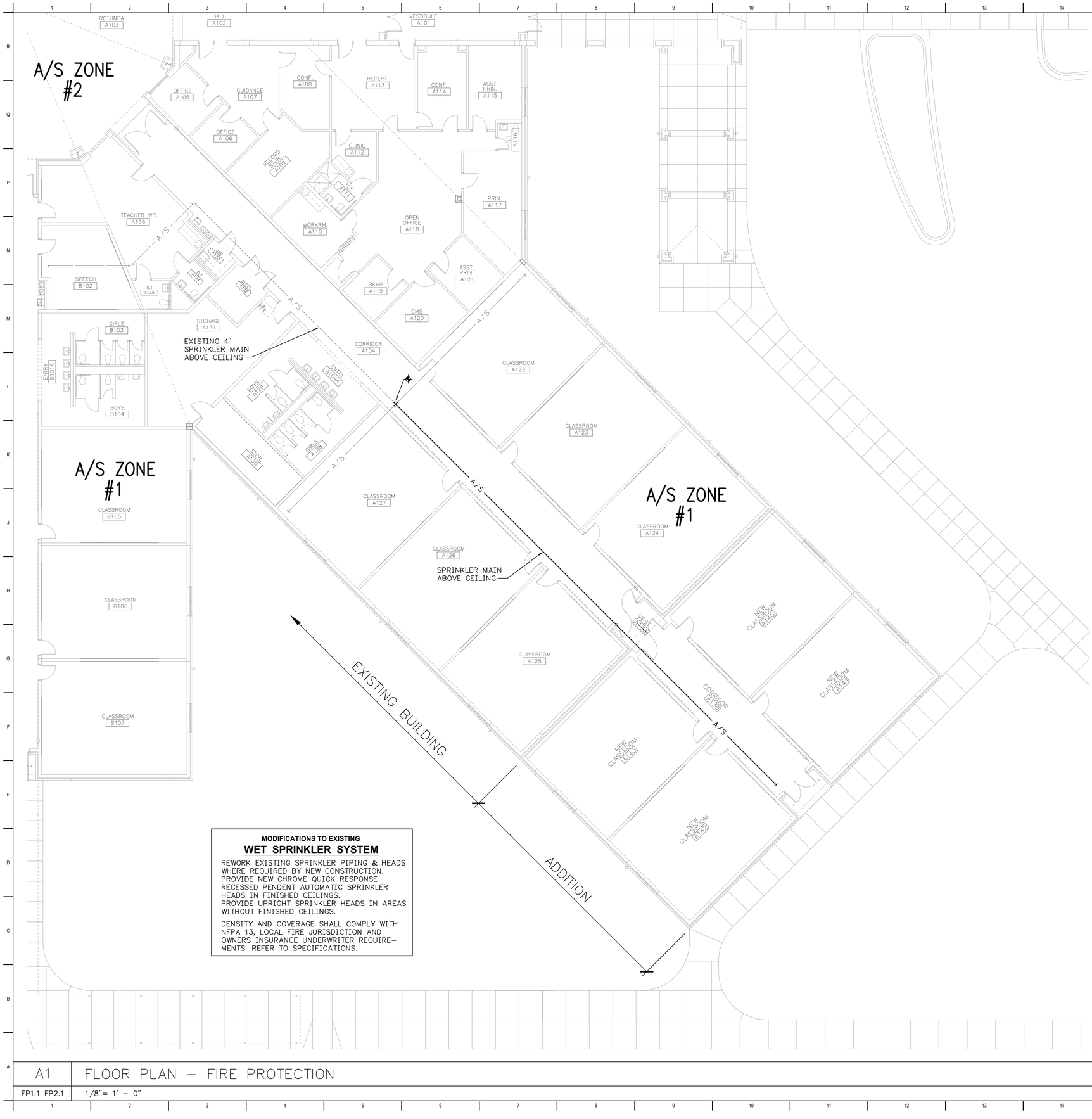
JOB NO: 62556
DATE: 12.06.16
DRAWN: TLJ
CHECKED: RLT
CAD FILE: P1.1.dwg

RONALD L. THOMPSON
REGISTERED PROFESSIONAL ENGINEER
12/6/16
11596
STATE OF MISSISSIPPI

LEWISBURG ELEMENTARY
P1.1

A1 | FLOOR PLAN – PLUMBING
P1.1.dwg | 1/8"= 1' – 0"

A16 | KEYPLAN
NOT TO SCALE



MODIFICATIONS TO EXISTING

WET SPRINKLER SYSTEM

REWORK EXISTING SPRINKLER PIPING & HEADS WHERE REQUIRED BY NEW CONSTRUCTION. PROVIDE NEW CHROME QUICK RESPONSE RECESSED PENDENT AUTOMATIC SPRINKLER HEADS IN FINISHED CEILINGS. PROVIDE UPRIGHT SPRINKLER HEADS IN AREAS WITHOUT FINISHED CEILINGS.

DENSITY AND COVERAGE SHALL COMPLY WITH NFPA 13, LOCAL FIRE JURISDICTION AND OWNERS INSURANCE UNDERWRITER REQUIREMENTS. REFER TO SPECIFICATIONS.

LEGEND

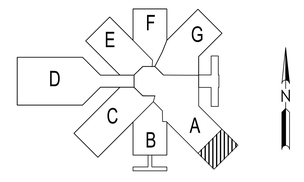
SYMBOL	DESCRIPTION
A/S	AUTOMATIC SPRINKLER
A/S	EXISTING AUTOMATIC SPRINKLER
	NEW CONNECTION

ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR	F.F.	FINISHED FLOOR
AB.	ABOVE	FCO.	FLOOR CLEANOUT
ARCH.	ARCHITECTURAL	HORIZ.	HORIZONTAL
BEL.	BELOW	MECH.	MECHANICAL
CLG.	CEILING	OPNG.	OPENING
CONN.	CONNECT(ION)	REQD.	REQUIRED
CONC.	CONCRETE	SECT.	SECTION
DN.	DOWN	STRUCT.	STRUCTURAL
DWG.	DRAWING	S.S.	STAINLESS STEEL
ELEV.	ELEVATION	TYP.	TYPICAL
ELEC.	ELECTRICAL	U.N.O.	UNLESS NOTED OTHERWISE

FIRE PROTECTION NOTES:

1. FURNISH AND INSTALL A COMPLETE 100% HYDRAULICALLY CALCULATED AUTOMATIC SPRINKLER WET PIPE SPRINKLER SYSTEM AS SPECIFIED UNDER DIVISION 21 OF THE SPECIFICATIONS, SERVING AREAS OF BUILDING AS INDICATED ON THE PLANS.
2. USE THE FOLLOWING NFPA-13 OCCUPANCY CLASSIFICATIONS IN THE DESIGN OF AND CALCULATIONS FOR THE NEW AUTOMATIC SPRINKLER SYSTEM: LIGHT HAZARD.
3. REFER TO THE DRAWINGS FOR SPACE OCCUPANCY CLASSIFICATIONS.
4. COORDINATE WITH THE OWNER, LOCAL WATER UTILITY, AND/OR THE LOCAL FIRE DEPARTMENT FOR THE PERFORMANCE OF A FLOW TEST IN ACCORDANCE WITH NFPA-13 REQUIREMENTS. CONDUCT THE FLOW TEST USING TWO FIRE HYDRANTS: THE FIRST FOR THE PRESSURE READINGS WHILE THE SECOND HYDRANT IS FLOWING.
5. ALL A/S HEADS SHOWN IN SPACES WITHOUT CLGS. SHALL BE INSTALLED WITHIN 12" OF UNDERSIDE OF ROOF DECK AND IN ACCORDANCE WITH NFPA-13. ADDITIONAL HEADS MAY BE REQUIRED AND SHALL BE PROVIDED AROUND OBSTRUCTIONS IN ACCORDANCE WITH NFPA-13.
6. INSTALL SPRINKLER HEADS IN CENTER OF 24" X 24" CEILING TILES AND AT 12" INTERVALS ALONG THE LONG AXIS OF 24" X 48" CEILING TILES. INSTALL HEADS A MINIMUM OF 12" OFF CEILING TILE SUPPORT GRID.
7. INSTALL A/S SPRINKLER PIPING AS CLOSE TO STRUCTURE AS POSSIBLE. COORDINATE CEILING CLEARANCES WITH ALL OTHER TRADES PRIOR TO SYSTEM FABRICATION.
8. INSTALL ALL SYSTEMS TO MEET THE REQUIREMENTS OF IFC (CURRENT EDITION), NFPA 13, THESE DOCUMENTS, FEDERAL, STATE AND LOCAL AUTHORITIES HAVING JURISDICTION, AND THE OWNER'S INSURANCE UNDERWRITER. NO PART OR SECTION OF NFPA (ALL CHAPTERS) SHALL BE VIOLATED. WHERE THE REQUIREMENTS OF THE CONTRACT DOCUMENTS ARE LESS STRINGENT THAN THE REQUIREMENTS OF THE INSURANCE UNDERWRITER, THE UNDERWRITER'S REQUIREMENTS SHALL TAKE PRECEDENCE.
9. THE AUTOMATIC SPRINKLER SYSTEM SHALL BE SUPERVISED IN COMPLIANCE WITH NFPA 13, 8.15.1.1.2.
10. COORDINATE WITH ALL DISCIPLINES INVOLVED PRIOR TO FABRICATION OR INSTALLATION TO AVOID ANY PIPE ROUTING PROBLEMS.
11. INSTALL PIPE PENETRATIONS THROUGH WALLS AND FLOORS AS DIRECTED BY THE SPECIFICATIONS AND DETAILS. SEE ARCHITECTURAL DRAWINGS FOR FINAL FINISHES.
12. ALL SYSTEM VALVES AND GAUGES SHALL BE ACCESSIBLE FOR INSPECTION AND MAINTENANCE.
13. SEISMICALLY BRACE ALL PIPING.
14. PRIOR TO CONSTRUCTION, SUBMIT SHOP DRAWINGS FOR THE AUTOMATIC SPRINKLER SYSTEM FOR REVIEW AND APPROVAL. SHOP DRAWINGS SHALL BE PREPARED ACCORDING TO NFPA 13, AND APPROVED AND STAMPED BY THE AUTHORITIES HAVING JURISDICTION. INCLUDE HYDRAULIC CALCULATIONS.



A1	FLOOR PLAN – FIRE PROTECTION
FP1.1 FP2.1	1/8"= 1' – 0"
A16	KEYPLAN
	NOT TO SCALE

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CLASSROOM ADDITION TO LEWISBURG ELEMENTARY SCHOC

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Desoto County School District
5 East South Street, Hernando, Mississippi 38632

No.	Revision	Date

FLOOR PLAN, LEGEND AND NOTES - FIRE PROTECTION

JOB NO:	62556
DATE:	12.06.16
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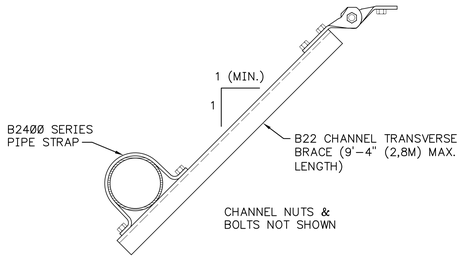
CHECKED:	RLT
CAD FILE:	FP1.1.FP2.1dwg

LEWISBURG ELEMENTARY

FP1.1



B-LINE PRODUCTS LISTED. ACCEPTABLE
MANUFACTURERS: GRINNEL, PHD, TOLCO.

NOTE: INSTALL BRACE WITHIN 4" (101MM) OF HANGER. (HANGER NOT SHOWN FOR CLARITY. SEE LONGITUDINAL DETAIL, THIS SHEET)

TRANSVERSE SEISMIC BRACING DETAIL

NO SCALE

TYPICAL RECESSED HEAD

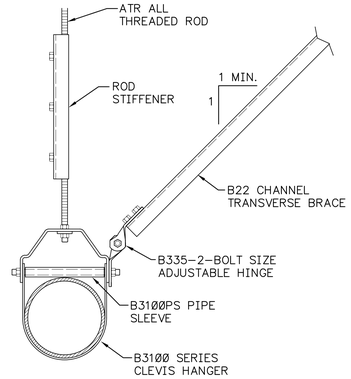
TYPICAL UPRIGHT HEAD

NOTES:

1. INSTALLATION AND MATERIALS SHALL MEET THE REQUIREMENTS OF THE OWNER'S INSURANCE UNDERWRITER.
2. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS, INCLUDING EXACT TYPES OF SPECIFIED AUTOMATIC SPRINKLER HEADS. REFER TO FLOOR PLANS FOR LOCATIONS OF DIFFERENT TYPES OF SPECIFIED A/S HEADS.

SPRINKLER HEAD INSTALLATION DETAILS

NO SCALE



PIPE SIZE In.	(mm)	CLEVIS HANGER PART NO.	ADJUSTABLE HINGE PART NO.	PIPE SLEEVE PART NO.*
1/2	(15)	B3100-1/2	N/A	N/A
3/4	(20)	B3100-3/4	N/A	N/A
1	(25)	B3100-1	B335-2-3/8	B3100PS-1
1 1/4	(32)	B3100-1 1/4	B335-2-3/8	B3100PS-1 1/4
1 1/2	(40)	B3100-1 1/2	B335-2-3/8	B3100PS-1 1/2
2	(50)	B3100-2	B335-2-3/8	B3100PS-2
2 1/2	(65)	B3100-2 1/2	B335-2-3/8	B3100PS-2 1/2
3	(80)	B3100-3	B335-2-3/8	B3100PS-3
3 1/2	(90)	B3100-3 1/2	B335-2-3/8	B3100PS-3 1/2
4	(100)	B3100-4	B335-2-3/8	B3100PS-4
5	(125)	B3100-5	B335-2-1/2	B3100PS-5
6	(150)	B3100-6	B335-2-1/2	B3100PS-6

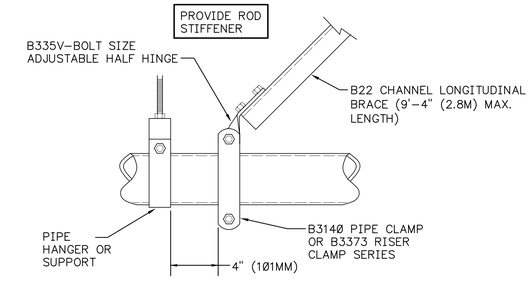
*NOT INCLUDED WHEN ORDERING STANDARD B3100 SERIES CLEVIS HANGER.

B-LINE PRODUCTS LISTED. ACCEPTABLE
MANUFACTURERS: GRINNEL, PHD, TOLCO.

NOTE: PIPE SLEEVE REQUIRED OVER CROSS BOLT OF CLEVIS HANGER WHEN USING THE BRACE CONNECTION SHOWN ABOVE (FIGURE 1). PIPE SLEEVE IS NOT REQUIRED WHEN CLEVIS HANGER IS USED IN CONJUNCTION WITH THE BRACING SHOWN IN TRANSVERSE BRACING DETAIL.

CLEVIS HANGER SEISMIC BRACING DETAIL

NO SCALE

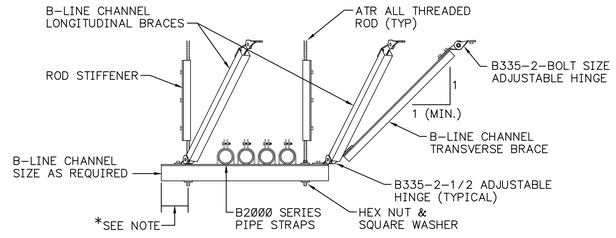


PIPE SIZE In.	(mm)	PIPE CLAMP* NO.	ADJUSTABLE HALF HINGE PART NO.	RISER CLAMP* PART NO.	ADJUSTABLE HALF HINGE PART NO.
1"	(25)	B3140-1	B335V-1/2	B3373-1	B335V-1/2
1 1/4"	(32)	B3140-1 1/4	B335V-1/2	B3373-1 1/4	B335V-1/2
1 1/2"	(40)	B3140-1 1/2	B335V-1/2	B3373-1 1/2	B335V-1/2
2"	(50)	B3140-2	B335V-1/2	B3373-2	B335V-1/2
2 1/2"	(65)	B3140-2 1/2	B335V-1/2	B3373-2 1/2	B335V-1/2
3"	(80)	B3140-3	B335V-1/2	B3373-3	B335V-1/2
3 1/2"	(90)	B3140-3 1/2	B335V-1/2	B3373-3 1/2	B335V-1/2
4"	(100)	B3140-4	B335V-1/2	B3373-4	B335V-1/2
5"	(125)	B3140-5	B335V-1/2	B3373-5	B335V-1/2
6"	(150)	B3140-6	B335V-1/2	B3373-6	B335V-1/2
8"	(200)	B3140-8	B335V-1/2	B3373-8	B335V-1/2
10"	(250)	--	B335V-1/2	B3373-10	B335V-1/2
12"	(300)	--	B335V-1/2	B3373-12	B335V-1/2

B-LINE PRODUCTS LISTED. ACCEPTABLE
MANUFACTURERS: GRINNEL, PHD, TOLCO.

LONGITUDINAL SEISMIC BRACING DETAIL

NO SCALE



TRAPEZE TRANSVERSE AND LONGITUDINAL BRACING

TOLCO PRODUCTS LISTED. ACCEPTABLE
SUBSTITUIONS: GRINNEL, PHD, B-LINE.

NOTES:

1). B335-2 ADJUSTABLE HINGES FOR LONGITUDINAL BRACES MAY BE ATTACHED ON EITHER SIDE ADJACENT TO THE ALL THREAD ROD ITSELF.
2). B335-2 ADJUSTABLE HINGES FOR TRANSVERSE BRACES MAY BE ATTACHED TO THE ALL THREAD ROD.
3). TWO B335-2 ADJUSTABLE HINGES MAY BE ATTACHED TO THE STRUT TRAPEZE USING THE SAME BOLT OR ALL THREAD ROD.
4). IT IS NOT NECESSARY TO INSTALL BOTH TRANSVERSE BRACES AND LONGITUDINAL BRACES ON THE SAME TRAPEZE SUPPORT. EITHER SET OF BRACES MAY BE REMOVED TO FORM A LONGITUDINAL BRACE ONLY OR A TRANSVERSE BRACE ONLY IF DESIRED.
5). LONGITUDINAL BRACES, WHEN NEEDED, MUST BE INSTALLED AT BOTH ENDS OF TRAPEZE.
6). BRACING ATTACHMENTS SHALL BE CONNECTION TYPE I WITH 3/8" DIA. ANCHOR BOLTS EQUAL TO HILTI KWIK BOLT II. MINIMUM EMBEDMENT SHALL BE 2-1/2".
7). ALL THREAD RODS SHALL BE CONNECTED TO 3/8" DIA. ANCHOR BOLTS WITH ROD COUPLER, HEX NUT & B2000 SERIES SQUARE WASHER. ANCHOR BOLTS SHALL BE EQUAL TO HILTI HEX NUT & B2000 SERIES SQUARE WASHER.
8). LOCATION AND SPACING OF SEISMIC BRACING AS FOLLOWS: LONGITUDINAL BRACING AT 30 FT MAXIMUM INTERVALS. TRANSVERSE BRACING AT 20 FT MAXIMUM INTERVALS.

*DETERMINE LENGTH OF TRAPEZE, MAKING SURE SUFFICIENT LENGTH IS ADDED TO ATTACH THE ALL THREAD ROD AND BRACING ATTACHMENTS.

TRAPEZE SEISMIC BRACING DETAIL

NO SCALE

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PIPING SCHEMATICS -
FIRE PROTECTION

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CHECKED: RLT
CAD FILE: FP1.1 FP2.1.dwg

LEWISBURG ELEMENTARY
FP2.1

RECESSED LIGHTING FIXTURE - REFER TO LIGHTING FIXTURE SCHEDULE.

RECESSED LIGHTING FIXTURE - PROVIDE 1300 LUMEN BATTERY BACK-UP EMERGENCY BALLAST. RUN ADDITIONAL UNSWITCHED HOT CONDUCTOR TO EACH FIXTURE LOCATION.

RECESSED LIGHTING FIXTURE

WALL MTD. EMERGENCY LIGHTING FIXTURE

SURFACE, PENDANT OR BRACKET MTD. LIGHTING FIXTURE

EXIT FIXTURE - FACE & DIRECTIONAL ARROWS AS INDICATED, TYPE "E", UOI.

A — DENOTES FIXTURE TYPE "A" - SEE FIXTURE SCHEDULE

SWD — WALL MTD. WIRELESS WALL SWITCH WITH DIMMING. TIME-OUT SHALL BE SET TO 5 MINUTES FOR ALL AREAS, UOI. LUTRON PX-3BRL-GWH-I01 OR APPROVED EQUIVALENT- MTD. 48" AFF, UOI

CS — CEILING MOUNTED WIRED OCCUPANCY SENSOR. DELAY TIME SHALL BE SET TO 5 MINUTES FOR ALL AREAS, UOI. LUTRON LOS-CDT-2000-WH OR APPROVED EQUIVALENT.

DUPLEX RECEPTACLE, MTD. 18" AFF, UOI

DOUBLE DUPLEX RECEPTACLE, MTD. 18" AFF, UOI

GROUND FAULT INTERRUPTER RECEPTACLE, MTD. 44" AFF, UOI

120/208V 3PH, 4W PANELBOARD

277/480V 3PH, 4W PANELBOARD

TRANSFORMER

WIRE IN CONDUIT RUN OVERHEAD - CONCEALED IN OR ABOVE CEILING IN WALL OR EXPOSED ON STRUCTURE

WIRE IN CONDUIT RUN CONCEALED BELOW FLOOR, IN WALL OR BELOW GRADE

INDICATES GROUNDING CONDUCTOR

FUSED DISCONNECT SWITCH IN WP ENCLOSURE - SIZE AS INDICATED

OUTLET FOR DATA CABLE MTD. 18" AFF, UOI, - RUN 1" EMPTY CONDUIT UP TO NEAREST ACCESSIBLE CEILING SPACE - PROVIDE BLANK COVERPLATE

D-X — INDICATES NUMBER OF DATA DROPS - BY DIVISION 27 - SEE SPECS

TV DEVICE AND ADJACENT RECEPTACLE MTD. 98" AFF, SEE ARCH. ELEVATIONS FOR EXACT LOCATION. RUN 1" EMPTY CONDUIT UP TO NEAREST ACCESSIBLE CEILING SPACE - PROVIDE BLANK COVERPLATE

TBB — TELEPHONE BACKBOARD - 0.75" AC PLYWOOD, 8' TALL. INSTALL PER OWNER'S STANDARDS.

NOTE INDICATION

UOI — UNLESS OTHERWISE INDICATED

GFCI — GROUND FAULT CIRCUIT INTERRUPTER

EX — EXISTING

WP — WEATHERPROOF

F — FIRE ALARM SYSTEM - MANUAL PULL STATION, MTD. 48" AFF, UOI.

FIRE ALARM SYSTEM - COMBINATION AUDIBLE & VISUAL INDICATOR

FIRE ALARM SYSTEM - VISUAL SIGNAL DEVICE

FIRE ALARM SYSTEM - SMOKE DETECTOR MTD. IN DUCT

FACP — FIRE ALARM SYSTEM - CONTROL PANEL

INDICATES DEVICE TO BE REMOVED

S — INTERCOM/PAGING CEILING MOUNTED SPEAKER

FIRE STOPPING COMMUNICATIONS PENETRATION. EZ PATH BY STI FIRE STOP - NO SUBSTITUTE. 22 INDICATES EZD22, 33 INDICATES EZDP33FWS, & 44 INDICATES EZD44. LOCATIONS WITH (3) 44'S REQUIRE A EZP544W WALL KIT. FURNISHED AND INSTALLED BY DIVISION 26. PENETRATION SHALL BE ABOVE FINISHED CEILING, AS APPLICABLE.

RECESSED CONNECTION BLOCK FOR POWER, COAXIAL, USB AND HDMI CABLES (DATACOMM ELECTRONICS MODEL # 45-0010-WH OR APPROVED EQUAL). SHALL HAVE (1) DUPLEX PLATE, (1) COAXIAL PLATE, AND (1) DATA PLATE. FLUSH MOUNT IN CEILING, AGAINST WALL, CENTERED ABOVE WALL MOUNTED PROJECTOR. USB AND HDMI CABLING SHALL BE PER SMART TV MANUFACTURER'S REQUIREMENTS. ROUTE FROM TEACHER'S DESK LOCATION TO SMART TV LOCATION AS INDICATED ON PLANS.

J — J-HOOK ARRAY

WAP — 2-GANG, RECESSED, DEEP OUTLET BOX WITH 1-GANG PLASTER RING AT 12" ABOVE LAY-IN TILE CEILING WITH .75"C TO CEILING SPACE FOR WIRELESS ACCESS POINT - PROVIDE DATA DROP TO NEAREST DATA CLOSET

S — FIRE ALARM SYSTEM - CEILING MTD. SMOKE DETECTOR

PB — INTERCOM PUSH BUTTON - MTD. 48" AFF. SEE SPECIFICATIONS

DH — MAGNETIC DOOR HOLDER

A1 LEGEND - ELECTRICAL

NO SCALE

FIXTURE MOUNTING
R-RECESSED U-UNIVERSAL
S-SURFACE W-WALL

FIXTURE TYPE
F-FLUORESCENT
LED-LIGHT EMITTING DIODE

LENS
A-ACRYLIC
P-POLYCARBONATE
G-GLASS

FINISH
WH-WHITE
CB-CARBON BRONZE

TYPE NO.	MANUF'R	CATALOG NO.	FIX. MTG.	FIX. TYPE	LENS	FIN.	LAMP NO.	LAMP WATTS	VOLTS	COMMENTS
A	METALUX	24SR-LD1-48-C-UNV-L840	R	LED	A	WH	-	49	UNV	LED VOLUMETRIC TROFFER - PROVIDE WITH DIMMING BALLAST, UOI
AE	METALUX	24SR-LD1-48-C-UNV-EL14-L840	R	LED	A	WH	-	49	UNV	LED VOLUMETRIC TROFFER - PROVIDE WITH DIMMING BALLAST AND 1400 LUMEN EMERGENCY OPTION, UOI
D	PRESCOLITE	LF6LED-6LFLED5-40K-WT	R	LED	G	WH	-	25	UNV	LED DOWNLIGHT WITH WET-LOCATION LENS
DE	LITHONIA	AFN-DB-EXT-FWD	W	LED	G	DB	-	11	UNV	LED ARCHITECTURAL EMERGENCY LIGHT
E	SURE-LITES	EEX-2-G	U	LED	P	WH	-	4.6	UNV	LED EXIT SIGN - MTD. ABOVE DOOR HEADER AS REQUIRED
J	LUMARK	XTOR5A-MS/DIM-L20	W	LED	A	CB	-	50	UNV	LED WALL PACK WITH INTEGRAL PHOTOCELL AND DIMMING DRIVER - SEE NOTE 4

GENERAL LIGHTING NOTES:

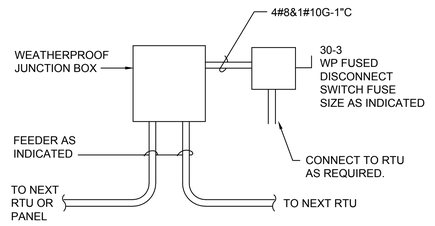
1. ALL BALLASTS SHALL BE ELECTRONIC WITH ≤ 20% THD.
2. ALL "EQUAL" ALTERNATE FIXTURES ARE SUBJECT TO APPROVAL BY ARCHITECT/ENGINEER, 10 DAYS PRIOR TO BID.
3. ALL EXIT FIXTURES SHALL BE WALL, CENTER MOUNTED ABOVE DOOR HEADER, UOI.
4. FIXTURE MOUNTING SHALL BE COORDINATED WITH ARCHITECTURAL ELEVATIONS.

L8 LIGHTING FIXTURE SCHEDULE - ELECTRICAL

NO SCALE

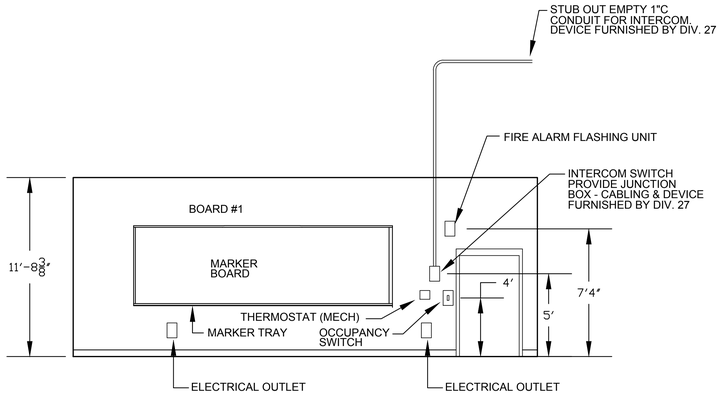
GENERAL NOTES:

1. CONTRACTOR SHALL PROVIDE ALL ACCESSORIES AND CIRCUITRY AS REQUIRED FOR OPERATION OF ALL OCCUPANCY SENSORS. CONTRACTOR SHALL PROVIDED OCCUPANCY SENSORS RATED FOR EXHAUST FANS AS REQUIRED.
2. CONTRACTOR SHALL PROVIDE PROJECTORS, DATA, AND INTERCOM SYSTEMS INCLUDING WIRING AS DESCRIBED IN THE SPECIFICATIONS.
3. CONTRACTOR SHALL TIE ALL FIRE ALARM DEVICES INTO EXISTING FIRE ALARM SYSTEM IN EXISTING SCHOOL. CONTRACTOR SHALL PROVIDE (1) NEW LOOP CARD AND (2) NEW POWER SUPPLIES TO ALLOW INTEGRATION OF NEW FIRE ALARM DEVICES.



G12 RTU FEEDER TAP DETAIL - ELECTRICAL

NO SCALE



A11 CLASSROOM WALL SCHEMATIC - ELECTRICAL

NO SCALE

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CLASSROOM ADDITION TO
LEWISBURG ELEMENTARY SCHOOL

1717 Craft Road
Olive Branch, MS 38654

Desoto County School District
5 East South Street, Hernando, Mississippi 38632

No.	Revision	Date

LEGEND, LIGHTING FIXTURE SCHEDULE, AND DETAILS - ELECTRICAL

JOB NO: 62556
DATE: 12.06.16
DRAWN: JAB
CHECKED: MSC
CAD FILE: E0.1

MICHEL S. COLLINS
REGISTERED PROFESSIONAL
ENGINEER
14493
STATE OF MISSISSIPPI
12.16

LEWISBURG ELEMENTARY
E0.1

GENERAL NOTES:

1. THIS LIGHTING SHEET IS BASED ON REFLECTIVE CEILING PLAN THAT IS PRELIMINARY. ADJUST LOCATIONS FOR FINAL CEILING GRID LAYOUT. DO NOT ALTER THE NUMBER OF FIXTURES INDICATED ON DRAWINGS. SEE FIXTURE SCHEDULE FOR APPLICABLE NOTES.
2. ALL LIGHT FIXTURES SHALL BE TYPE "A", UOI. USE #10 WIRE AND 3/4"C FOR ALL LIGHTING CIRCUITS, UOI.
3. COORDINATE EXACT LOCATION OF EXTERIOR FIXTURES WITH ARCHITECTURAL DRAWINGS.
4. CONTRACTOR SHALL PROVIDE POWER PACKS FOR OCCUPANCY SENSORS AS REQUIRED BY MANUFACTURER. PROVIDE 120V CIRCUITS FROM NEAREST "NORMAL" PANEL AS REQUIRED.

REFERENCE NOTES:

1. DEMOLISH EXISTING TYPE "L" LIGHT FIXTURE AND INSTALL NEW TYPE "AE" LIGHT FIXTURE AS SHOWN.
2. OCCUPANCY SWITCHES SHALL CONTROL NEW CORRIDOR FIXTURES, UOI (TYPICAL).
3. ROUTE THROUGH EXISTING PHOTOCELL AND CONTACTOR (TYPICAL FOR ALL EXTERIOR LIGHT FIXTURES).

A1	FLOOR PLAN - LIGHTING - ELECTRICAL	A16	KEYPLAN
	1/8" = 1'-0"		NO SCALE

Allen&Hoshall
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No.	Revision	Date

FLOOR PLAN - LIGHTING - ELECTRICAL

JOB NO:	62556
DATE:	12.06.16
DRAWN:	JAB
CHECKED:	MSC
CAD FILE:	E2.1

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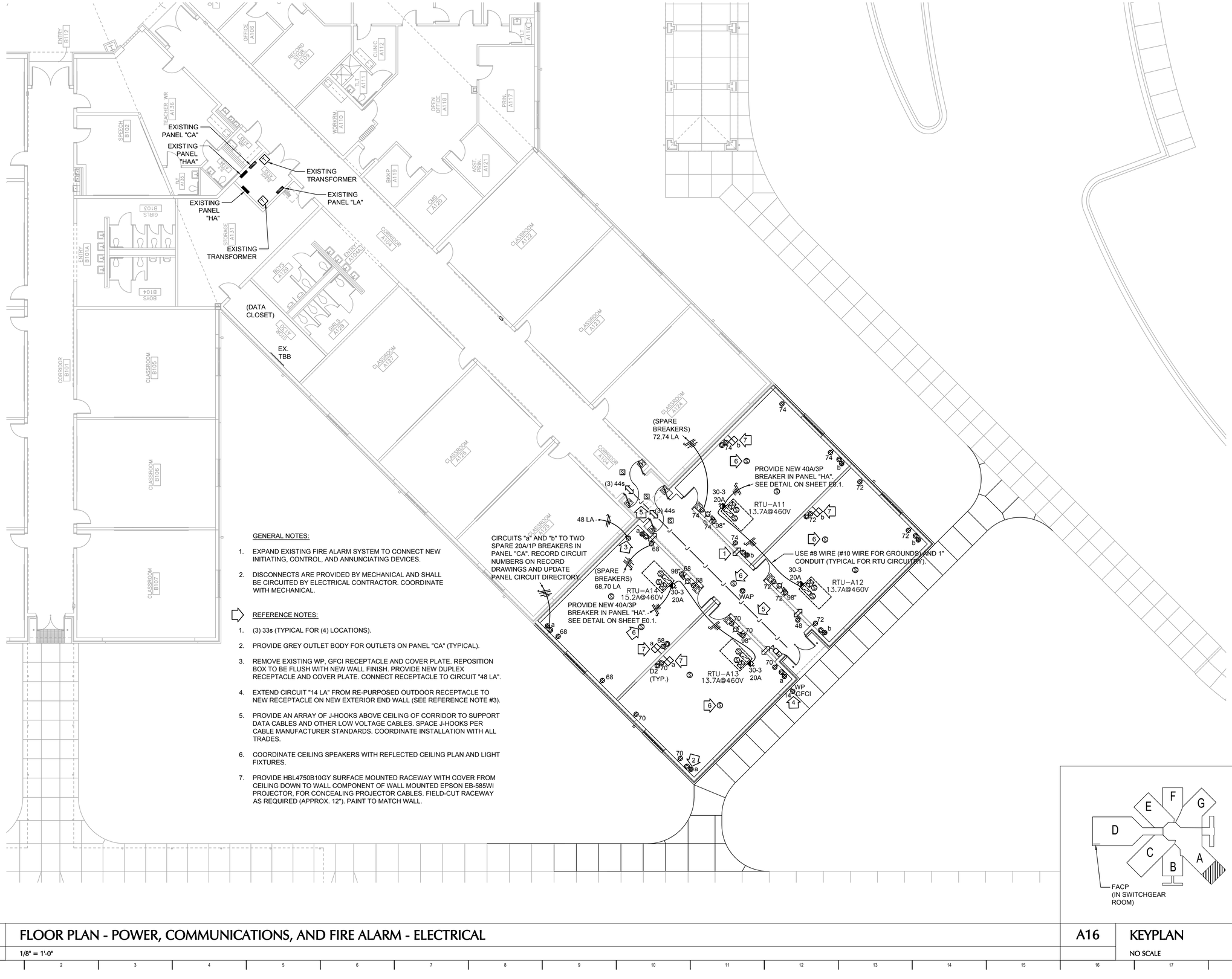

GENERAL NOTES:

1. EXPAND EXISTING FIRE ALARM SYSTEM TO CONNECT NEW INITIATING, CONTROL, AND ANNUNCIATING DEVICES.
2. DISCONNECTS ARE PROVIDED BY MECHANICAL AND SHALL BE CIRCUITED BY ELECTRICAL CONTRACTOR. COORDINATE WITH MECHANICAL.

REFERENCE NOTES:

1. (3) 33s (TYPICAL FOR (4) LOCATIONS).
2. PROVIDE GREY OUTLET BODY FOR OUTLETS ON PANEL "CA" (TYPICAL).
3. REMOVE EXISTING WP, GFCI RECEPTACLE AND COVER PLATE. REPOSITION BOX TO BE FLUSH WITH NEW WALL FINISH. PROVIDE NEW DUPLEX RECEPTACLE AND COVER PLATE. CONNECT RECEPTACLE TO CIRCUIT "48 LA".
4. EXTEND CIRCUIT "14 LA" FROM RE-PURPOSED OUTDOOR RECEPTACLE TO NEW RECEPTACLE ON NEW EXTERIOR END WALL (SEE REFERENCE NOTE #3).
5. PROVIDE AN ARRAY OF J-HOOKS ABOVE CEILING OF CORRIDOR TO SUPPORT DATA CABLES AND OTHER LOW VOLTAGE CABLES. SPACE J-HOOKS PER CABLE MANUFACTURER STANDARDS. COORDINATE INSTALLATION WITH ALL TRADES.
6. COORDINATE CEILING SPEAKERS WITH REFLECTED CEILING PLAN AND LIGHT FIXTURES.
7. PROVIDE HBL4750B10GY SURFACE MOUNTED RACEWAY WITH COVER FROM CEILING DOWN TO WALL COMPONENT OF WALL MOUNTED EPSON EB-585WI PROJECTOR, FOR CONCEALING PROJECTOR CABLES. FIELD-CUT RACEWAY AS REQUIRED (APPROX. 12"). PAINT TO MATCH WALL.

A1 FLOOR PLAN - POWER, COMMUNICATIONS, AND FIRE ALARM - ELECTRICAL

1/8" = 1'-0"

A16 KEYPLAN

NO SCALE

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MICHAEL S. COLLINS REGISTERED PROFESSIONAL ENGINEER 14493 STATE OF MISSISSIPPI 12.16

LEWISBURG ELEMENTARY
E3.1