BREATHITT COUNTY PUBLIC SCHOOLS

SEBASTIAN ELEMENTARY SCHOOL

(Previously known as Sebastian Middle School)

PARTIAL RENOVATION

244 L.B.J. ROAD

JACKSON, KENTUCKY 41339

BREATHITT COUNTY BOARD OF EDUCATION

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KY. DEPARTMENT OF EDUCATION PROJECT
BG #19-320

CONSTRUCTION DOCUMENTS

ARCHITECTS ..... Tate·Hill·Jacobs: Architects

MECHANICAL/ELECTRICAL ENGINEERS ..... SHROUT TATE WILSON

STRUCTURAL ENGINEERS ..... SDG, LLC

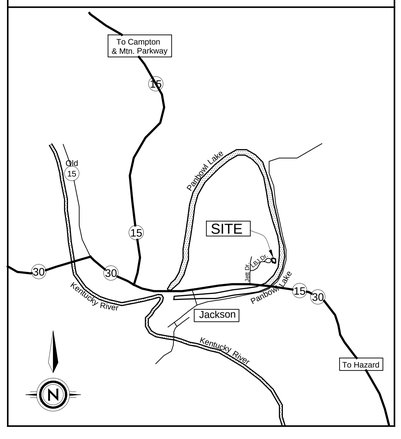
SCHEDULE OF DRAWINGS

BUILDING DATA:

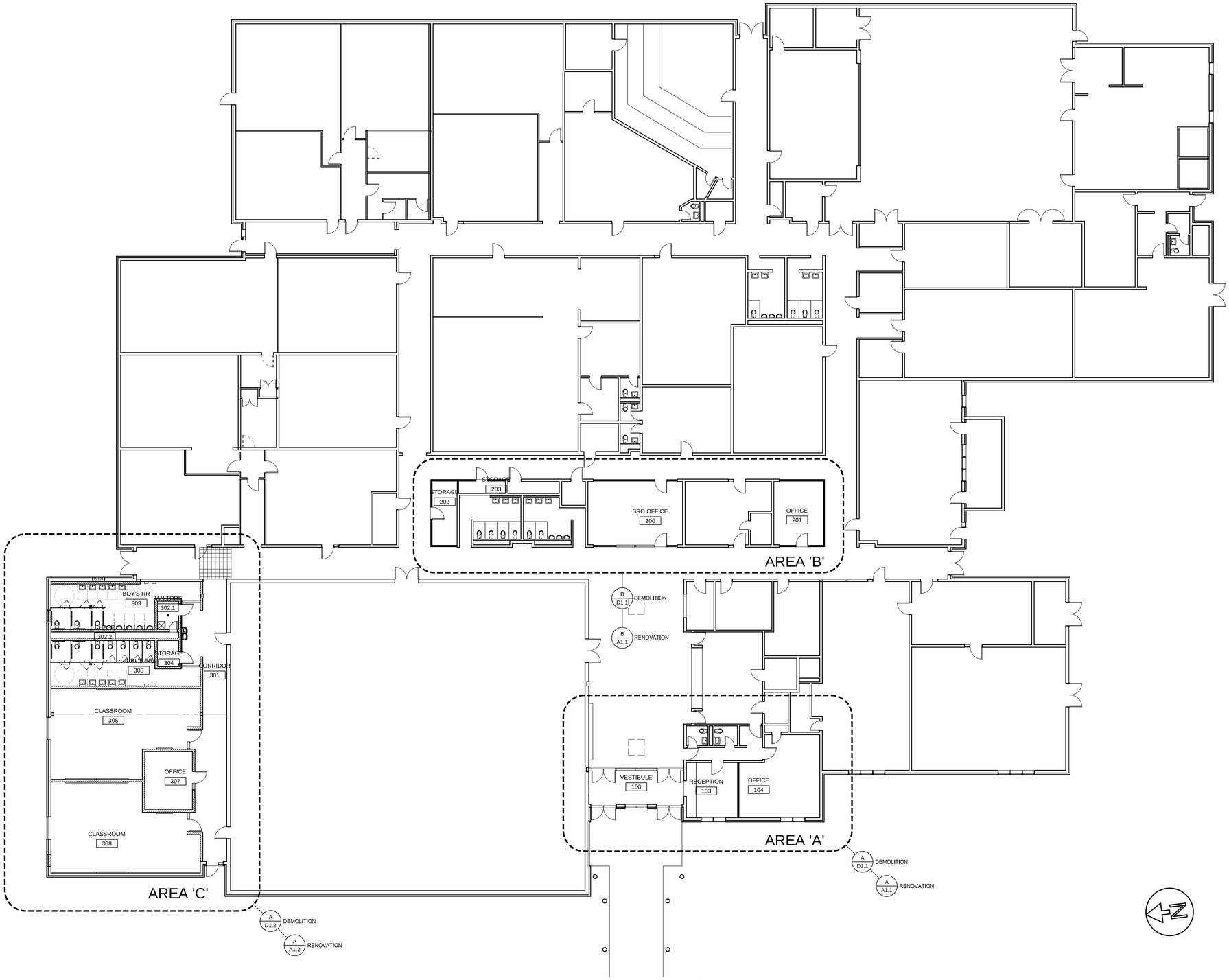
2013 KENTUCKY BUILDING CODE COMPLIANCE

USE GROUP	EDUCATIONAL (E)
CONSTRUCTION TYPE	II B
FIRE SUPPRESSION	FULLY SPRINKLED
OCCUPANT LOAD	DESIGN LOAD: 450 STUDENTS PLUS TEACHERS & STAFF
TOTAL GROSS FLOOR AREA	52,253 sf
RENOVATION FLOOR AREA:	
AREA 'A' = 415 sf	
AREA 'B' = 793 sf	
AREA 'C' = 3,269 sf	
TOTAL RENOVATION FLOOR AREA	4,477 sf
NO. OF STORIES	1

VICINITY MAP



July 18, 2019 THJ #1901



A
A0.1
REFERENCED FLOOR PLAN
SCALE: 3/32" = 1'-0"

GENERAL NOTES:

A. **DO NOT SCALE DRAWINGS. DRAWINGS VARY IN SCALE AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONFIRM.** WRITTEN DIMENSIONS ARE TO BE VERIFIED IN THE FIELD BY GENERAL CONTRACTOR WITH ARCHITECT AFTER DEMOLITION AND PRIOR TO ANY WORK ON NEW PARTITIONS. ARCHITECT IS TO BE NOTIFIED OF ANY FIELD MEASUREMENT DISCREPANCIES PRIOR TO BEGINNING WORK IN THAT AREA.

B. IT IS THE INTENT OF THE DRAWINGS TO IDENTIFY ALL LINTEL REQUIREMENTS ON THE DRAWINGS, HOWEVER IT IS THE CONTACTOR'S RESPONSIBILITY TO PROVIDE ALL LINTELS NECESSARY TO COMPLETE THE CONSTRUCTION IF THE DRAWINGS DO NOT IDENTIFY THE TYPE OF LINTEL TO BE USED AT A LOCATION WHERE ONE IS REQUIRED. REFER TO THE LINTEL SCHEDULE PROVIDED ON THE STRUCTURAL DRAWINGS.

C. ALL NEW AND EXISTING WALLS SHALL EXTEND TO THE UNDERSIDE OF THE ROOF DECK UNLESS OTHERWISE NOTED. STUD WALLS SHALL BE FULLY INSULATED WITH ACOUSTIC BATTS. ALL PENETRATIONS SHALL BE SEALED.

D. ALL DIMENSIONS ARE REFERENCED FROM FINISH FACE OF MASONRY (EXISTING OR NEW) OR FACE OF METAL FRAMING UNLESS OTHERWISE INDICATED.

E. DURING RENOVATION, COVER AND PROTECT ANY EXISTING MATERIALS WHICH ARE TO REMAIN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PATCH AND REPAIR ANY EXISTING MATERIAL DAMAGED DURING THE WORK OF THIS CONTRACT.

F. REFER TO STRUCTURAL, MECHANICAL, PLUMBING & ELECTRICAL DRAWINGS FOR ADDITIONAL WORK.

G. THE ADJACENT BUILDING AREAS WILL NOT BE OCCUPIED DURING THE COURSE OF THE WORK OF THIS CONTRACT. ADJACENT AREAS ARE OFF LIMITS TO CONSTRUCTION PERSONNEL.

H. REFER TO REFLECTED CEILING PLANS FOR CEILING CONDITIONS.

I. WHERE EXISTING PARTITIONS ARE REMOVED, ADJOINING WALL AND FLOOR SURFACES ARE TO BE REPAIRED TO PROVIDE A CONTINUOUS SMOOTH FINISHED SURFACE. MASONRY IS TO BE TOOTHED INTO ADJACENT UNLESS OTHERWISE NOTED.

J. REUSE OF SALVAGED BRICK: WHERE EXISTING OPENINGS ARE TO BE INFILLED OR NEW OPENING ARE TO BE CUT OUT IN EXISTING EXTERIOR WALLS, USE SALVAGED BRICK TO MATCH ADJACENT BRICK IN COLOR AND BOND PATTERN. MATCH ADJACENT MORTAR COLOR. TOOTH-IN/OUT ALL MASONRY.

K. CONSTRUCTION SHALL COVER ALL WORK AS SHOWN ON THE DRAWING, AND IS TO INCLUDE ANY WORK REQUIRED TO MEET THE INTENTION OF THE WORK SHOWN ON THE OTHER DRAWINGS. CONTRACTOR HAS THE RESPONSIBILITY TO REFER TO ALL DRAWINGS, SITE INFORMATION, AND VERIFY ALL CONDITIONS IN FIELD BEFORE COMMENCING WORK. COMMENCING WORK MEANS ACCEPTANCE OF ALL CONDITIONS.

L. REFER TO ROOM FINISH SCHEDULE FOR ALL FINISHES, SHEET A3.1.

M. ALL EXISTING SURFACES WITH A PAINT FINISH IN WORK AREA OF THIS CONTRACT SHALL RECEIVE NEW PAINT IN ACCORDANCE WITH SS 099000. PREP AND PRIME SURFACE AS REQUIRED.

N. PATCH AND REPAIR TO "LIKE NEW" CONDITION ALL EXISTING SURFACES CUT OR ROUTED FOR RECESSED INSTALLATION OF NEW WORK INCLUDING MECHANICAL AND / OR ELECTRICAL SYSTEM. COORDINATE WITH THE MECHANICAL AND ELECTRICAL DRAWINGS.

O. NO NEW ROOF WORK IS INCLUDED IN THIS PROJECT. EXISTING ROOF PENETRATIONS/CURBS IN AREA 'C' ARE TO BE REUSED BY NEW PLUMBING AND MECHANICAL WORK, OR SEALED WITH NEW INSULATED CAPS. REFER TO MEP DRAWINGS.

SYMBOLS LEGEND

EXISTING STACK BOND MASONRY WALL ASSEMBLY TO REMAIN. PATCH TO MATCH ABANDONED HOLES &/OR OPENINGS. TOOTH IN NEW WORK TO EXISTING. SS 04 20 00. PAINT. SS 09 90 00.

NEW CMU WALL, THICKNESS AS DIMENSIONED. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS. SS 04 20 00. EXTEND TO UNDERSIDE OF ROOF DECK ABOVE. PROVIDE 4" METAL FRAMING & 5/8" GYPSUM BOARD (ONE SIDE) & 3.5" ACOUSTIC BATT INSULATION AT TOP OF WALL WHERE GAPS/OPENINGS OCCUR FOR SOLID ACOUSTICAL SEPARATION OF SPACES.

NEW INTERIOR 4" METAL FRAMING PARTITION WALL. 20 GAGE STUDS @ 16\ OC W/ 5/8\ GYPSUM WALLBOARD EA. SIDE & 3.5\ ACOUSTIC BATT INSULATION. EXTEND STUDS TO UNDERSIDE OF ROOF DECK ABOVE. SS 09 21 16. PAINT. SS 09 90 00.

1 A0.1 — ENLARGED PLAN / DETAIL IDENTIFICATION

1 — ELEVATION DESIGNATION

W-1 — WINDOW TYPE IN NEW OR EXISTING MASONRY OPENING. REFER TO WINDOW SCHEDULE ON DRAWING A2.0

— DOOR OPENING DESIGNATION. REFER TO SCHEDULE ON DRAWING A2.0

1 — TAG NOTE, REFER TO LEGENDS ON SHEET WHERE NOTE IS REFERENCED.

SABRINA G. JACOBS REGISTERED ARCHITECT KENTUCKY

architects TATE HILL JACOBS
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REFERENCE FLOOR PLAN

BREATHITT COUNTY PUBLIC SCHOOLS
SEBASTIAN ELEMENTARY SCHOOL - PARTIAL RENOVATION
244 L.B.J. Rd. JACKSON, KY 41339

Proj. #: 1901
Date: MAY 28, 2019
Drawn: MFI
Checked: SO
Revised:

A0.1

DESIGN CRITERIA

BUILDING CODE	2013 KENTUCKY BUILDING CODE, 4TH EDITION
COUNTY / STATE	BREATHITT / KENTUCKY
OCCUPANCY CATEGORY	III

FLOOR LOADS

FLOOR LIVE LOAD	100 PSF
FLOOR DEAD LOAD	ACTUAL WEIGHT OF FLOOR SYSTEM PLUS WEIGHT OF EQUIPMENT WHERE INDICATED

ROOF LOADS

ROOF LIVE LOAD	MIN ROOF LIVE LOAD 20 PSF ROOF LIVE LOAD MAY BE REDUCED ACCORDING TO THE BUILDING CODE
ROOF DEAD LOAD (SUPERIMPOSED)	SELF-WEIGHT 13 PSF (ASSUMED) COLLATERAL 7 PSF (ASSUMED)
ROOF SNOW LOAD	
GROUND SNOW LOAD	Pg = 15 PSF
SNOW EXPOSURE FACTOR	Ce = 1.0
THERMAL FACTOR	Ct = 1.0
IMPORTANCE FACTOR	Is = 1.10
RAIN ON SNOW SURCHARGE	Pr = 5 PSF
FLAT-ROOF SNOW LOAD (BALANCED CONDITION)	Pf, bal = 16.5 PSF
FLAT-ROOF SNOW LOAD (UNBALANCED CONDITION)	Pf = 11.5 PSF
MINIMUM ROOF SNOW LOAD (NOT TO BE COMBINED WITH R/S OR DRIFT)	Pm = 16.5 PSF
SNOW DRIFT	NO SNOW DRIFT LOCATIONS

WIND LOAD DATA

BASIC WIND SPEED (3 SECOND GUST)	120 MPH ULTIMATE (90 MPH SERVICE)
WIND EXPOSURE CATEGORY	C
WIND IMPORTANCE FACTOR	Iw = 1.15 (SERVICE ONLY)
COMPONENTS AND CLADDING WIND PRESSURES	P = 28 PSF (SERVICE)

NOTE: THE MAIN WINDFORCE RESISTING SYSTEM OF THIS BUILDING WAS NOT MODIFIED BY THIS RENOVATION, NOR WERE THE WIND AREAS OR LOADS ON IT INCREASED BY MORE THAN 5%. THEREFORE, WIND DESIGN WAS ONLY PERFORMED ON THE COMPONENTS THAT WERE MODIFIED AND THE OVERALL EXISTING MAIN WINDFORCE RESISTING SYSTEM WAS NOT ANALYZED.

EARTHQUAKE LOAD DATA

SEISMIC SITE CLASS (ASSUMED PER BLDG CODE)	D
MAPPED SHORT PERIOD SPECTRAL RESPONSE ACCELERATION	Ss = 0.196
MAPPED 1 SECOND SPECTRAL RESPONSE ACCELERATION	S1 = 0.088
DESIGN SHORT PERIOD SPECTRAL RESPONSE ACCELERATION	Sds = 0.209
DESIGN 1 SECOND PERIOD SPECTRAL RESPONSE ACCELERATION	Sd1 = 0.141
SEISMIC DESIGN CATEGORY	C
SEISMIC IMPORTANCE FACTOR	Ie = 1.25
BASIC STRUCTURAL SYSTEM	BEARING WALL SYSTEM
SEISMIC FORCE RESISTING SYSTEM	ORDINARY REINF MASONRY SHEAR WALLS
SEISMIC RESPONSE FACTOR	R = 4
METHOD OF ANALYSIS	EQUIVALENT LATERAL FORCE PROCEDURE
SEISMIC COEFFICIENT	Cs = 0.065
SEISMIC BASE SHEAR	NOT REQ'D TO BE CALCULATED

NOTE: THE SEISMIC LATERAL RESTRAINT SYSTEM OF THIS BUILDING WAS NOT MODIFIED BY THIS RENOVATION, NOR WERE THE MASSES OR LOADS ON IT INCREASED BY MORE THAN 5%. THEREFORE, EARTHQUAKE DESIGN WAS ONLY PERFORMED ON THE COMPONENTS THAT WERE MODIFIED AND THE OVERALL EXISTING SEISMIC LATERAL RESTRAINT SYSTEM WAS NOT ANALYZED.

GENERAL

1. THE REQUIREMENTS OF THESE GENERAL NOTES APPLY UNLESS OTHERWISE NOTED ON PLANS OR IN SPECIFICATIONS.
2. ALL DIMENSIONS OF EXISTING CONDITIONS SHALL BE VERIFIED PRIOR TO COMMENCING WORK. DISCREPANCIES BETWEEN EXISTING CONDITIONS OR BETWEEN THE DRAWINGS AND SPECIFICATIONS SHALL BE COMMUNICATED TO THE STRUCTURAL ENGINEER AND ARCHITECT.
3. THIS STRUCTURE IS DESIGNED TO BE STABLE AND SELF-SUPPORTING ONLY WHEN FULLY COMPLETED. STABILITY OF THE STRUCTURE DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL NECESSARY TEMPORARY BRACING REQUIRED TO STABILIZE AND SUPPORT THE STRUCTURE DURING ALL CONSTRUCTION PHASES SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. IF REQUIRED, TEMPORARY SHORING AND / OR BRACING SHALL BE DESIGNED BY A LICENSED ENGINEER EMPLOYED BY THE CONTRACTOR.
4. CONSTRUCTION LOADS IMPOSED ON THE STRUCTURAL FRAMING SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME SUCH LOADS ARE IMPOSED.
5. NON-STRUCTURAL ELEMENTS OF THE BUILDING (ARCHITECTURAL FINISHES, MASONRY VENEER AND ASSOCIATED TIES, INSULATION, SHEATHING, DUCTWORK, PIPING, ETC.) ARE GENERALLY NOT SHOWN ON THESE STRUCTURAL DRAWINGS. CERTAIN NON-STRUCTURAL ELEMENTS THAT ARE SHOWN ON THE STRUCTURAL DRAWINGS ARE SHOWN FOR REFERENCE ONLY. NON-STRUCTURAL ELEMENTS SHALL BE CONSTRUCTED AS SHOWN ON THE ARCHITECTURAL AND TRADE DRAWINGS.
6. ANY MATERIAL ORDERED OR WORK PERFORMED PRIOR TO THE ENGINEER'S REVIEW AND APPROVAL OF THE SHOP DRAWINGS IS AT THE CONTRACTOR'S SOLE RISK.

MATERIAL STRENGTHS USED IN DESIGN

(FOR REFERENCE IN CALCULATIONS - SEE SPECIFICATIONS OR NOTES FOR ACTUAL MATERIAL SPECIFICATIONS)

CONCRETE:			
CLASS A (STRUCTURAL)(SEE SPECIFICATIONS)	28 DAY f'c =	4,000	PSI
CLASS B (NON-STRUCT)(SEE SPECIFICATIONS)	28 DAY f'c =	3,000	PSI
REINFORCING BARS (ASTM A615 OR A706 GRADE 60)	fy =	60,000	PSI
WELDED WIRE FABRIC (ASTM A185)	fy =	65,000	PSI
PRESTRESSING STRAND (ASTM A416 GRADE 270 LO LAX)	fu =	270,000	PSI
DEFORMED BAR ANCHORS (ASTM A496)	fy =	80,000	PSI
STRUCTURAL STEEL SECTIONS W AND WT (ASTM A992)	fy =	50,000	PSI
STRUCTURAL STEEL SECTIONS C, L, M, S, HP, MT AND ST (ASTM A36)	fy =	36,000	PSI
STRUCTURAL STEEL PLATES BARS, AND RODS U.N.O. (ASTM A36)	fy =	36,000	PSI
STRUCTURAL STEEL SECTIONS HSS (ASTM A500 GRADE B)	fy =	46,000	PSI
STRUCTURAL STEEL PIPE (ASTM A53 GRADE B)	fy =	35,000	PSI
STRUCTURAL BOLTS (ASTM A325)	fu =	120,000	PSI
CONCRETE MASONRY (VARIOUS)	f'm =	1,500	PSI
SOIL ALLOWABLE BEARING PRESSURE FOR FOUNDATIONS	qa =	3,000	PSF
ROCK ALLOWABLE BEARING PRESSURE	qa =	30,000	PSF

FOUNDATIONS

1. THE FOUNDATIONS HAVE BEEN DESIGNED USING ASSUMED BEARING CAPACITIES, THEREFORE A QUALIFIED TESTING COMPANY SHALL BE ENGAGED BY THE CONTRACTOR TO VERIFY BEARING CAPACITIES PRIOR TO INSTALLING FOUNDATIONS. THE SELECTION OF THE TESTING COMPANY SHALL BE SUBJECT TO APPROVAL BY THE STRUCTURAL ENGINEER AND ARCHITECT.
2. THE FOUNDATIONS HAVE BEEN DESIGNED USING THE FOLLOWING ASSUMED BEARING CAPACITIES.

UNDISTURBED SOIL	1,500 PSF
ENGINEERED FILL > 2'-0" THICK	3,000 PSF
COMPETENT BEDROCK	8,000 PSF

3. ALL FOOTINGS SHALL BE SUPPORTED ON UNDISTURBED SOIL, ENGINEERED FILL OR COMPETENT BEDROCK WHERE INDICATED.
4. FILL SHALL BE COMPACTED TO 98% OF OPTIMUM LABORATORY DENSITY IN ACCORDANCE WITH ASTM D698 STANDARD PROCTOR METHOD IN MAXIMUM 6" LIFTS UNLESS INDICATED OTHERWISE.
5. ALL PIERS AND SPREAD FOOTINGS ARE CENTERED ON COLUMN CENTERLINES AND ALL WALL FOOTINGS ARE CENTERED UNDER WALLS UNLESS NOTED OTHERWISE.
6. EXISTING FOUNDATIONS SHOWN ON DRAWINGS ARE APPROXIMATE. EXACT CONDITION SHALL BE VERIFIED AT TIME OF CONSTRUCTION.
7. THE STRUCTURAL ENGINEER SHALL BE NOTIFIED IF SOFT, LOOSE OR LOWER BEARING CAPACITY SOILS OR ROCK ARE ENCOUNTERED.
8. EXISTING UNDERGROUND UTILITIES IN AREAS OF FOUNDATION CONSTRUCTION SHALL BE LOCATED PRIOR TO CONSTRUCTION OF FOUNDATIONS. APPROPRIATE MEASURES SHALL BE TAKEN TO AVOID DAMAGE TO EXISTING UTILITIES AND TO ENSURE ADEQUATE FOUNDATION BEARING AROUND UTILITIES.
9. FOUNDATIONS SHALL NOT BE PLACED ON MUD OR MUCK, SOFT OR LOOSE SOIL, IN STANDING WATER OR ON FROZEN GROUND.
10. ALL NON-CANTILEVER WALLS SHALL BE BE ADEQUATELY BRACED PRIOR TO BACKFILL.
11. CANTILEVER RETAINING WALLS SHALL NOT BE BACKFILLED UNTIL THE CONCRETE HAS DEVELOPED 100% OF THE REQUIRED 28-DAY COMPRESSIVE STRENGTH FOR THE CLASS OF CONCRETE SPECIFIED.

MATERIAL PATTERN LEGEND

▤	COMPETENT ROCK	░	CONCRETE
▨	UNDISTURBED SOIL ENGINEERED FILL	░	LEAN CONCRETE FLOWABLE FILL GROUT
▩	CRUSHED STONE DENSE GRADED AGGREGATE		

CAST-IN-PLACE CONCRETE

1. ALL CONCRETE CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH ACI 301-10, ACI 318-11, ACI 117-10, ACI 308.1-11, AND ACI SP-66, THE ACI DETAILING MANUAL-2004. HOT AND COLD WEATHER CONCRETE CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH ACI 305 AND ACI 306 AS REQUIRED. SHORING AND RESHORING OF CONCRETE STRUCTURES SHALL BE PERFORMED IN ACCORDANCE WITH ACI 347. STRUCTURAL DESIGN AND REMOVAL OF CONCRETE FORMWORK, SHORES AND RESHORES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. SHOP DRAWINGS SHOWING THE SIZE, LENGTH, QUANTITY, LOCATION AND MARK OF ALL REINFORCING BARS, SUPPORTS AND ACCESSORIES SHALL BE SUBMITTED FOR APPROVAL PRIOR TO FABRICATION.
3. MIX DESIGNS AND ADMIXTURE PRODUCT DATA SHALL BE SUBMITTED FOR APPROVAL PRIOR TO ORDERING CONCRETE.
4. CONCRETE PROPERTIES SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.
5. REINFORCING AND ACCESSORY PROPERTIES SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.
6. REINFORCING COMPRESSION SPLICES SHALL BE LAPPED 30 BAR DIAMETERS OF THE LARGER BAR.
7. REINFORCING TENSION SPLICES SHALL BE LAPPED IN ACCORDANCE WITH THE FOLLOWING TABLE:

BAR SIZE	3,000 PSI CONC. LAP LENGTH	>=4,000 PSI CONC. LAP LENGTH
#3	17"	15"
#4	23"	20"
#5	28"	24"
#6	34"	29"
#7	49"	43"
#8	56"	49"
#9	69"	60"

ADD 30% FOR HORIZONTAL TOP BARS WITH MORE THAN 12" OF CONCRETE BELOW.
ADD 50% FOR BAR C-TO-C SPACING LESS THAN THREE BAR DIAMETERS.
LAP LENGTH ADDS ARE CUMULATIVE.

8. CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE:

CONDITION	CLEAR COVER OVER BARS
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
CONCRETE EXPOSED TO EARTH OR WEATHER	
#6 THROUGH #18 BARS	2"
#5 BAR, W31 OR D31 WIRE AND SMALLER	1 1/2"
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	
SLABS, WALLS, AND JOISTS	
#14 AND #18 BARS	1 1/2"
#11 BAR AND SMALLER	3/4"

9. THE TYPICAL DETAILS ON THESE DRAWINGS CONTAIN ADDITIONAL GENERAL CONCRETE CONSTRUCTION NOTES AND INFORMATION.
10. ALL CONCRETE SHALL BE REINFORCED UNLESS NOTED OTHERWISE.
11. SUPPORTS TO ADEQUATELY POSITION REINFORCING BARS DURING CONSTRUCTION SHALL BE INSTALLED.
12. FOUNDATION DOWELS OF THE SAME SIZE AND SPACING AS VERTICAL STEEL SHALL BE INSTALLED FOR ALL WALLS, PIERS, AND COLUMNS.
13. ALL REINFORCING AT WALL AND FOOTING CORNERS AND INTERSECTIONS SHALL BE CONTINUOUS BY THE USE OF BENT BARS OR CORNER BARS UNLESS INDICATED OTHERWISE.
14. CONSTRUCTION JOINTS SHALL BE POSITIONED SO AS NOT TO ADVERSELY AFFECT THE STRUCTURAL PERFORMANCE. CONSTRUCTION JOINT LOCATIONS NOT INDICATED ON THE STRUCTURAL DRAWINGS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER.
15. PIPE SLEEVES AND INSERTS SHALL BE INSTALLED IN CONCRETE WORK AT ALL PENETRATIONS. PENETRATIONS OF BEAMS, JOISTS, COLUMNS OR STRUCTURAL SLABS NOT INDICATED ON THE STRUCTURAL DRAWINGS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER.
16. ONLY WELDABLE REINFORCING BARS MAY BE WELDED.
17. ADMIXTURES CONTAINING CHLORIDE OR OTHER CORROSIVE CHEMICALS SHALL NOT BE USED IN CONCRETE.
18. AGGREGATES SHALL BE FREE OF DELETERIOUS OR NON-DURABLE MATERIALS SUCH AS CHERTS.
19. REINFORCING SHALL BE ADEQUATELY TIED AND SUPPORTED TO HOLD IT IN THE CORRECT POSITION DURING CONSTRUCTION.
20. CONCRETE SHALL BE CONSOLIDATED ADEQUATELY DURING PLACEMENT BY MECHANICAL VIBRATION IN ACCORDANCE WITH PUBLISHED PRACTICES.
21. UNSHORED SLAB CONSTRUCTION SHALL BE FINISHED LEVEL AND HAVE THE MINIMUM REQUIRED THICKNESS OF CONCRETE AT THE THINNEST SECTION. BEAM CAMBER SHALL BE VERIFIED PRIOR TO PLACING UNSHORED CONCRETE SLABS.
22. PLASTIC CHAIRS SHALL BE USED IN ALL CONCRETE THAT WILL BE EXPOSED TO VIEW IN THE COMPLETED STRUCTURE.
23. EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED MINIMUM $\frac{3}{4}$".
24. FILL POCKETS AROUND CONNECTIONS WITH CONCRETE FLUSH AND SMOOTH UNLESS INDICATED OTHERWISE.
25. CONCRETE FINISHES SHALL BE INACCORDANCE WITH THE SPECIFICATIONS.
26. CONCRETE SLAB-ON-GRADE FLATNESS AND LEVELNESS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.

CONCRETE MASONRY

1. CONCRETE MASONRY WALLS SHOWN ON THE STRUCTURAL DRAWINGS ARE STRUCTURAL WALLS. CONCRETE MASONRY WALLS NOT SHOWN ON THE STRUCTURAL DRAWINGS ARE PARTITIONS. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS OF PARTITIONS UNLESS INDICATED OTHERWISE ON THE STRUCTURAL DRAWINGS.
2. CONCRETE MASONRY WALLS SHOWN ON STRUCTURAL DRAWINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 530.1 "SPECIFICATIONS FOR MASONRY STRUCTURES".
3. INSTALLATION DRAWINGS, PRODUCT DATA AND MATERIAL CERTIFICATIONS SHALL BE SUBMITTED FOR APPROVAL. THE SUBMITTALS SHALL CONFORM TO THE SPECIFICATIONS.
4. CONCRETE MASONRY MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE SPECIFICATIONS.
5. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE MASONRY (f'm) SHALL BE 1,500 PSI DETERMINED IN ACCORDANCE WITH THE SPECIFICATIONS.
6. THE TYPICAL DETAILS ON THE DRAWINGS CONTAIN ADDITIONAL GENERAL MASONRY NOTES AND DETAILS.
7. BEARING WALLS SHALL BE ANCHORED AT INTERSECTIONS BY GALVANIZED STEEL STRAPS 1 1/2" x 1/4" x 24" WITH 2" BEND AT 90 DEGREES EACH END. INSTALL STRAPS INTO GROUTED CORES OF C.M.U. AT 24" MAXIMUM VERTICAL SPACING. DO NOT INSTALL ANCHORS AT CONTROL JOINTS OR WHERE NON-BEARING PARTITIONS ABUT BEARING WALLS.
8. CORNERS OF LOAD BEARING CONCRETE MASONRY WALLS SHALL BE LAID IN RUNNING BOND UNLESS INDICATED OTHERWISE.
9. PROVIDE SOLID GROUTED CONCRETE MASONRY AROUND BEARING ENDS OF ALL BEAMS AND JOISTS.
10. NO OPENINGS FOR TRADES SHALL OCCUR IN CONCRETE MASONRY WALLS WITHIN 16 INCHES OF BEAM BEARING CENTERLINES.
11. PIPE SLEEVES AND INSERTS SHALL BE INSTALLED IN CONCRETE WORK AT ALL PENETRATIONS.
12. EMBEDDED ITEM LOCATIONS SHALL BE COORDINATED WITH THE APPROVED SHOP DRAWINGS OF THE TRADES.
13. ONLY WELDABLE REINFORCING BARS MAY BE WELDED.
14. CONCRETE MASONRY IS SUPPOSED TO ABSORB WATER FROM MORTAR AND GROUT. DO NOT PLACE OR GROUT WET CONCRETE MASONRY UNITS.
15. WEBS OF MASONRY UNITS FOR PIERS, COLUMNS, PILASTERS, AND THE STARTER COURSE SHALL BE MORTARED. WEBS OF MASONRY UNITS SHALL ALSO BE MORTARED WHERE REQUIRED TO CONFINE GROUT.
16. CELLS OF MASONRY IN PIERS, COLUMNS, PILASTERS AND WHERE OTHERWISE INDICATED SHALL ALIGN. THIS MAY REQUIRE THE USE OF BLOCK STYLES OTHER THAN STRETCHERS (E.G. SQUARE-END BLOCK).
17. SPACES TO BE FILLED WITH GROUT SHALL BE KEPT CLEAN AND FREE FROM PROTRUSIONS OF MASONRY OR MORTAR.
18. ALL CELLS OF BELOW-GRADE CONCRETE MASONRY UNITS SHALL BE GROUTED .
19. THE MAXIMUM GROUT POUR HEIGHT FOR EACH SPECIFIC TYPE AND SIZE OF CONCRETE MASONRY UNIT SHALL NOT EXCEED THE LIMITS SPECIFIED IN ACI 530.1.
20. MASONRY GROUTING SHALL CONFORM TO THE SPECIFICATIONS.
21. VERTICAL CONTROL JOINTS ARE INDICATED ON THE ARCHITECTURAL DRAWINGS.
22. VERTICAL CONTROL JOINTS SHALL BE INSTALLED BETWEEN ALL NON-LOADBEARING PARTITIONS AND BEARING WALLS.
23. SPACING OF CONTROL JOINTS SHALL NOT EXCEED 24 FEET UNLESS NOTED OTHERWISE.
24. SPLICE LAP LENGTHS FOR REINFORCING SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE:

BAR SIZE	LAP LENGTH
#3	18"
#4	25"
#5	31"
#6	57"

25. DO NOT EMBED ANY NON-STRUCTURAL ITEMS IN STRUCTURAL MASONRY WITHOUT WRITTEN PERMISSION FROM THE STRUCTURAL ENGINEER.

CHEMICAL ADHESIVE AND PROPRIETARY ADHESIVE ANCHORS

1. CHEMICAL ADHESIVES AND PROPRIETARY ADHESIVE ANCHORS SHALL BE PRODUCED BY ONE OF THE FOLLOWING MANUFACTURERS:
   HILTI, INC.
   ITW RED HEAD
   SIMPSON STRONG-TIE
2. ALL CHEMICAL ADHESIVES AND PROPRIETARY ADHESIVE ANCHORS FOR THE PROJECT SHALL BE PRODUCED BY THE SAME MANUFACTURER UNLESS APPROVED BY THE STRUCTURAL ENGINEER.
3. PROPRIETARY ADHESIVE ANCHORS SHALL BE FASTENED WITH COMPATIBLE CHEMICAL ADHESIVE FROM THE SAME MANUFACTURER.
4. CHEMICAL ADHESIVE AND PROPRIETARY ADHESIVE ANCHOR PRODUCT DATA AND A KEYED PLAN SHOWING THE LOCATION, TYPE OF CHEMICAL ADHESIVE AND INSTALLATION CONDITIONS OF EACH ADHESIVE ANCHOR SHALL BE SUBMITTED FOR APPROVAL. INSTALLATION CONDITIONS ARE:
   DRY, DAMP OR WET HOLE
   CORED HOLE OR HAMMER DRILLED HOLE
   STANDARD (PER MANUFACTURER) OR OVERSIZE HOLE
   HORIZONTAL, VERTICAL OR OVERHEAD SURFACE
   TEMPERATURE RANGE OF INSTALLATION
5. THE CHEMICAL ADHESIVE AND PROPRIETARY ADHESIVE ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE STRICTLY FOLLOWED, PARTICULARLY WITH REGARD TO DRILLING AND CLEANING OUT THE HOLE AND THE INSTALLATION CONDITIONS.
6. IF ANY OF THE FOLLOWING MINIMUM DISTANCES ARE NOT INDICATED OR AVAILABLE THEN VERIFY THE DETAIL AND FIELD CONDITIONS WITH THE STRUCTURAL ENGINEER PRIOR TO INSTALLING:

ANCHOR DIA	C TO C DISTANCE	EDGE DISTANCE	EMBED DISTANCE	MAT'L THICKNESS
1/2"	3 1/2"	4"	3 1/2"	5 1/2"
5/8"	4"	5"	4"	6"
3/4"	6"	6"	5"	8"

7. IF ANY OF THE FOLLOWING CONDITIONS ARE INDICATED OR PRESENT THEN VERIFY ACCEPTABILITY OF CHEMICAL ADHESIVE OR PROPRIETARY ADHESIVE ANCHOR TYPE, MATERIAL OR FINISH WITH THE STRUCTURAL ENGINEER PRIOR TO INSTALLING:
   CORROSIVE, CHEMICAL OR ABNORMAL TEMPERATURE ENVIRONMENT
   VIBRATORY OR FATIGUE LOADING OF ANCHOR
   IMPACT OR SHOCK LOADING OF ANCHOR
   CONTINUOUS TENSION (E.G. HANGING LOADS FROM CEILINGS)

STRUCTURAL STEEL

1. DETAILING, FABRICATION, AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AISC "SPECIFICATION FOR STRUCTURAL STEEL", (ANSI/AISC 360-10), AISC "CODE OF STANDARD PRACTICE FOR STRUCTURAL STEEL BUILDINGS AND BRIDGES", AISC / RCSC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A 325 OR A 490 BOLTS" AND AWS D1.1 "STRUCTURAL WELDING CODE."
2. SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL PRIOR TO FABRICATION OF STRUCTURAL STEEL. SHOP DRAWINGS SHALL CONFORM TO REQUIREMENTS IN THE SPECIFICATIONS.
3. STRUCTURAL STEEL MEMBERS SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:

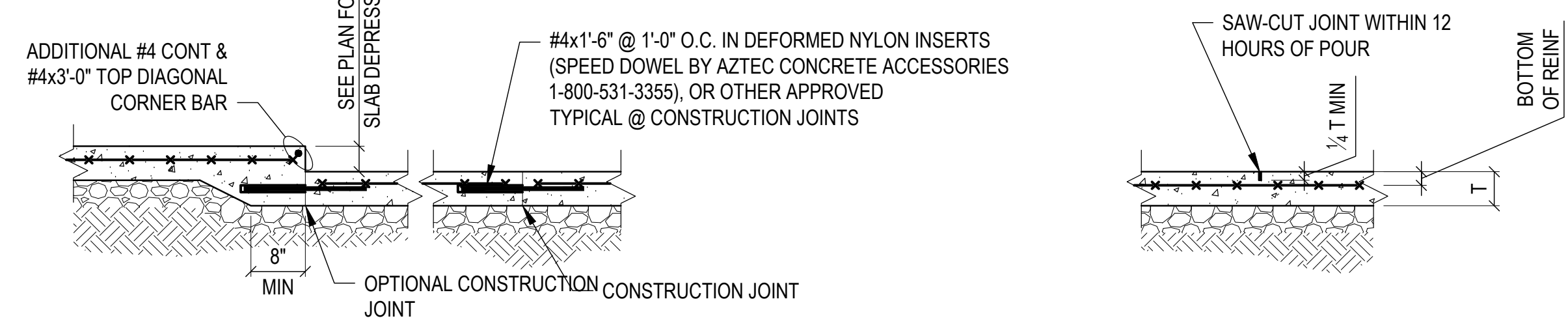
MEMBER TYPE	SPECIFICATION
WIDE FLANGE	ASTM A 992
STANDARD BEAM	ASTM A 36
CHANNEL	ASTM A 36
ANGLE	ASTM A 36
PLATE	ASTM A 36
BAR AND ROD	ASTM A 36
RECTANGULAR, SQUARE & ROUND TUBE (HSS)	ASTM A 500 GR B
PIPE	ASTM A 53 GR B
THREADED ROD	ASTM A 36
ANCHOR ROD	ASTM F 1554 GR 36
COMMON BOLTS	ASTM A 307 GR A
HIGH STRENGTH BOLTS (TWIST OFF)	ASTM F 1582
HIGH STRENGTH BOLTS (SNUG TIGHT)	ASTM A 325
DIRECT TENSION INDICATING WASHERS	ASTM F 959
HARDENED WASHERS	ASTM F 436
NUTS	ASTM A 563
SHEAR CONNECTORS (STUDS)	ASTM A 108
WELDING ELECTRODE	AWS D1.1 E70XX (EXCEPT AS OTHERWISE REQUIRED)

4. GROUT SHALL CONFORM TO REQUIREMENTS IN THE SPECIFICATIONS.
5. THE TYPICAL DETAILS ON THE DRAWINGS CONTAIN ADDITIONAL GENERAL STEEL CONSTRUCTION NOTES AND DETAILS.
6. HIGH-STRENGTH BOLTED CONNECTIONS SHALL BE FULLY PRETENSIONED UNLESS NOTED AS SNUG TIGHT ON THE DRAWINGS.
7. HARDENED WASHERS SHALL BE INSTALLED UNDER ALL NUTS FOR FULLY PRETENSIONED BOLTS.
8. HARDENED WASHERS SHALL BE INSTALLED OVER ALL OVERSIZED HOLES, STANDARD SLOTS AND SHORT SLOTTED HOLES. PLATE WASHERS $\frac{5}{16}$" THICK SHALL BE WELDED OVER LARGE HOLES AND LONG SLOTS.
9. BOLTED JOINTS WHERE RELATIVE MOVEMENT IS ALLOWED SHALL HAVE JAM NUTS TO PREVENT UNTHREADING.
10. STRUCTURAL STEEL SURFACE PREPARATION AND FINISHES SHALL CONFORM TO THE REQUIREMENTS IN THE SPECIFICATIONS.

STRUCTURAL SPECIAL INSPECTION & TESTING

SPECIAL INSPECTION IS REQUIRED ACCORDING TO SECTION1704 OF THE BUILDING CODE.

1. SPECIAL INSPECTIONS SHALL BE PERFORMED FOR THE FOLLOWING WORK AS REQUIRED IN THE BUILDING CODE:
   1.1. CONTRACTOR'S STATEMENT OF RESPONSIBILITY IN ACCORDANCE WITH SECTION 1704.4
      1.1.1. CONTRACTOR SHALL SUBMIT A STATEMENT THAT:
         1.1.1.1. ACKNOWLEDGES THE REQUIREMENTS STATED IN THIS STATEMENT OF SPECIAL INSPECTIONS.
         1.1.1.2. ACKNOWLEDGES THAT CONTROL WILL BE EXERCISED OVER THE QUALITY OF CONSTRUCTION TO CONFORM TO THE APPROVED CONSTRUCTION DOCUMENTS.
         1.1.1.3. DESCRIBES THE ORGANIZATIONAL PROCEDURES IN PLACE FOR EXERCISING CONTROL OF QUALITY OF THE CONSTRUCTION INCLUDING:
            1.1.1.3.1. APPOINTMENT OF A PERSON WITHIN THE CONTRACTOR'S ORGANIZATION TO EXERCISE CONTROL QUALITY OF CONSTRUCTION
            1.1.1.3.2. THE PERSONS WITHIN THE CONTRACTOR'S ORGANIZATION TO WHOM THE QUALITY CONTROL REPORTS ARE DISTRIBUTED
            1.1.1.3.3. THE METHOD AND FREQUENCY OF REPORTING THE QUALITY CONTROL RESULTS WITHIN THE CONTRACTOR'S ORGANIZATION
   1.2. FABRICATORS IN ACCORDANCE WITH SECTION 1704.2
      1.2.1. SUBMIT REPORT OF INSPECTOR'S APPROVAL OF FABRICATOR'S QC PLAN OR FABRICATOR'S NATIONALLY RECOGNIZED QC CERTIFICATION.
      1.2.2. SUBMIT REPORT OF INSPECTOR'S APPROVAL OF FABRICATOR'S WRITTEN QUALITY CONTROL PROCEDURES.
      1.2.3. SUBMIT FABRICATOR'S CERTIFICATE OF COMPLIANCE STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. SUBMITTED AT THE COMPLETION OF SUCH WORK.
   1.3. STEEL CONSTRUCTION IN ACCORDANCE WITH SECTION 1705.2
      1.3.1. SUBMIT MILL TEST REPORTS AND MATERIAL CERTIFICATIONS FOR ALL STEEL MEMBERS, FASTENERS, BOLTS, NUTS, WASHERS, DECK, AND REINFORCEMENT STEEL FOR CONCRETE AND MASONRY.
      1.3.2. SUBMIT REPORT OF INSPECTION OF MARKING AND CONNECTION DETAILS FOR ALL MEMBERS AND CONNECTIONS. VERIFY ALL STEEL MEMBERS AND STEEL DECK ARE INSTALLED IN THE CORRECT LOCATIONS AND ARE CONNECTED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND APPROVED ERECTION DRAWINGS.
      1.3.3. SUBMIT REPORT OF INSPECTION OF BOLT TENSIONING FOR EACH APPLICABLE CONNECTION.
      1.3.4. SUBMIT REPORT OF VISUAL INSPECTION OF ALL FIELD WELDS.
   1.4. CONCRETE CONSTRUCTION IN ACCORDANCE WITH SECTION 1705.3
      1.4.1. SUBMIT MATERIAL CERTIFICATIONS OF CEMENT, AGGREGATE, ADMIXTURES AND REINFORCEMENT.
      1.4.2. SUBMIT REPORT OF COMPRESSIVE STRENGTH, SLUMP AND AIR CONTENT TEST RESULTS. SAMPLE AND TEST CONCRETE AT LEAST ONCE PER DAY AND ONCE FOR EVERY ADDITIONAL 100 CUBIC YARDS OF CONCRETE PER DAY THEREAFTER.
      1.4.3. SUBMIT REPORT OF INSPECTION OF FORMS, REINFORCEMENT, EMBEDDED ITEMS, AND CONCRETE DELIVERY TICKETS PRIOR TO EACH PLACEMENT OF CONCRETE.
      1.5.4. SUBMIT REPORT OF INSPECTION OF INSTALLATION OF ALL WEDGE AND CHEMICAL ADHESIVE ANCHORS IN CONCRETE.
   1.4. MASONRY CONSTRUCTION IN ACCORDANCE WITH SECTION 1705.4
      1.4.1. SUBMIT MATERIAL CERTIFICATIONS OF CEMENT, AGGREGATE, ADMIXTURES AND REINFORCEMENT.
      1.4.2. SUBMIT REPORT OF TEST OF MORTAR AGGREGATE RATIO AND AIR CONTENT AND OBSERVATION OF MORTAR PROPORTIONING. TEST ONCE AT BEGINNING OF PROJECT AND ONCE EVERY 3,000 S.F. OF WALL THEREAFTER.
      1.4.3. SUBMIT REPORT OF PLACEMENT OF MASONRY, REINFORCEMENT AND GROUT PRIOR TO AND DURING EACH PLACEMENT OF GROUT.
      1.4.4. SUBMIT REPORT OF INSTALLATION OF CHEMICAL ADHESIVE ANCHORAGE IN CONCRETE AT BASE OF MASONRY WALLS. INSPECT INSTALLATION OF 10% OF ANCHORAGE INSTALLATIONS.
   1.5. SOILS CONSTRUCTION IN ACCORDANCE WITH SECTION 1705.6
      1.5.1. SUBMIT REPORT THAT SOIL BEARING CAPACITY IS ADEQUATE ACCORDING TO THE GEOTECHNICAL REPORT PRIOR TO EACH PLACEMENT OF FOUNDATION CONCRETE.
      1.5.2. SUBMIT REPORT OF DENSITY AND MOISTURE CONTENT OF CONTROLLED FILL FOR EACH LIFT UNDER BUILDING STRUCTURE.
2. THE TYPE AND EXTENT OF EACH TEST AND INSPECTION REQUIRED FOR EACH TYPE OF WORK SHALL BE AS INDICATED IN THE SPECIFICATIONS AND/OR THE BUILDING CODE AND THE REFERENCES INCORPORATED THEREIN.
3. INSPECTION REPORTS SHALL INCLUDE THE FOLLOWING:
   3.1. NAME, ADDRESS, AND TELEPHONE NUMBER OF SPECIAL INSPECTOR PERFORMING THE INSPECTION AND MAKING THE REPORT.
   3.2. DATES AND LOCATIONS OF SAMPLES AND TESTS OR INSPECTIONS, DATE OF REPORT.
   3.3. RECORD OF TEMPERATURE AND WEATHER CONDITIONS AT TIME OF SAMPLE TAKING AND TESTING AND INSPECTING.
   3.4. DESCRIPTION OF THE WORK, IDENTIFICATION OF PRODUCTS, SPECIFICATION SECTION, TESTS, AND INSPECTION METHODS.
   3.5. PHOTOGRAPHS OF THE WORK INSPECTED FOR THAT REPORT
   3.6. COMPLETE TEST OR INSPECTION DATA.
4. SPECIAL INSPECTION SHALL BE PERFORMED BY A QUALIFIED INSPECTION AND TESTING AGENCY APPROVED BY THE BUILDING OFFICIAL AND THE STRUCTURAL ENGINEER.
5. WORK REQUIRING SPECIAL INSPECTION SHALL BE INSPECTED BY THE SPECIAL INSPECTOR FOR CONFORMANCE WITH THE APPROVED DRAWINGS AND SPECIFICATIONS. INSPECTION REPORTS INDICATING THE RESULTS OF SPECIAL INSPECTIONS SHALL BE PROMPTLY SUBMITTED TO THE CONTRACTOR, THE ARCHITECT, THE STRUCTURAL ENGINEER.
6. THE SPECIAL INSPECTOR SHALL OBSERVE ACTIVITIES, ACTIONS, AND PROCEDURES PERFORMED BEFORE AND DURING EXECUTION OF THE WORK TO GUARD AGAINST DEFECTS AND DEFICIENCIES AND SUBSTANTIATE THAT PROPOSED CONSTRUCTION WILL COMPLY WITH REQUIREMENTS.
7. ALL SPECIAL INSPECTIONS INDICATING NON-CONFORMING WORK SHALL BE REPORTED IMMEDIATELY TO THE CONTRACTOR, THE ARCHITECT AND THE STRUCTURAL ENGINEER. IMPENDING CONSTRUCTION WORK THAT WOULD IMPEDE ECONOMICAL CORRECTION OF NON-CONFORMING WORK SHALL NOT PROCEED WITHOUT WRITTEN APPROVAL.
8. THE CONTRACTOR SHALL MAINTAIN A DISCREPANCY LOG ON THE SITE. LOG SHALL LIST EACH DISCREPANCY DOCUMENTED BY THE SPECIAL INSPECTOR, STATE THE DATE OF DISCOVERY AND SPECIAL INSPECTOR'S REPORT NUMBER, AND ROOM FOR THE SPECIAL INSPECTOR TO SIGN AND DATE WHEN SAID DISCREPANCY IS CORRECTED.
9. A FINAL REPORT CERTIFYING COMPLETION OF ALL REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY NON-CONFORMING WORK NOTED IN THE INSPECTIONS, OR IF NOT, DETAILING NON-INSPECTED AND/OR UNRESOLVED NON-CONFORMANCES, SHALL BE SUBMITTED BY THE SPECIAL INSPECTOR AT THE COMPLETION OF THE PROJECT.
10. THE CONTRACTOR SHALL NOTIFY THE INSPECTOR WHEN CONSTRUCTION IS READY TO BE INSPECTED. CONTRACTOR SHALL GIVE TIMELY AND ADEQUATE NOTICE TO THE SPECIAL INSPECTOR.
11. THE CONTRACTOR SHALL PROVIDE THE SPECIAL INSPECTOR ACCESS TO PLANS, SHOP DRAWINGS, AND CHANGE ORDERS AT THE JOBSITE.
12. THE CONTRACTOR SHALL RETAIN AT THE JOBSITE ALL SPECIAL INSPECTION RECORDS SUBMITTED BY THE SPECIAL INSPECTOR AND PROVIDE THESE RECORDS FOR REVIEW BY THE ENGINEER/ARCHITECT AND BUILDING INSPECTOR UPON REQUEST.



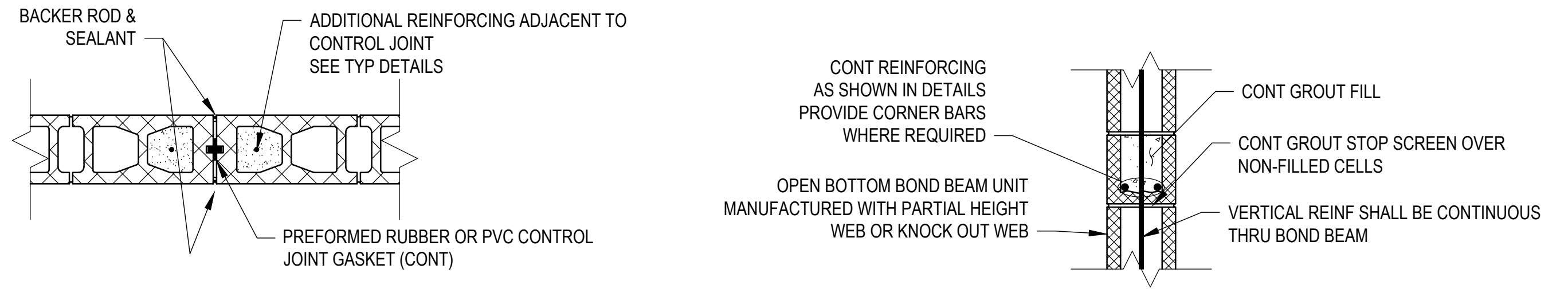
CONSTRUCTION JOINT

SAWN CONTRACTION JOINT

NOTES:
1. JOINTS SHALL BE INSTALLED IN SLABS ON GROUND AT A MAXIMUM SPACING IN FEET OF 3 TIMES THE SLAB THICKNESS IN INCHES IN EACH DIRECTION BY EITHER OF THE ABOVE METHODS. MAXIMUM LENGTH OF ANY SLAB ON GROUND POUR TO BE 50'-0" BETWEEN CONSTRUCTION JOINTS. THIS SPACING OF JOINTS SHALL APPLY UNLESS SPECIFICALLY SHOWN OTHERWISE.
2. WELDED WIRE FABRIC SHALL BE DISCONTINUED AT CONSTRUCTION JOINTS
3. AT CONTRACTOR'S OPTION, DIAMOND DOWELS SPACED AT 24" O.C. MAY BE SUBSTITUTED FOR NYLON INSERTS AND REBAR AT CONSTRUCTION JOINTS (1/4"x4 1/2" PLATE, DIAMOND DOWEL BY PNA INC. 1-800-542-0214)

TYPICAL SLAB-ON-GRADE DETAILS

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

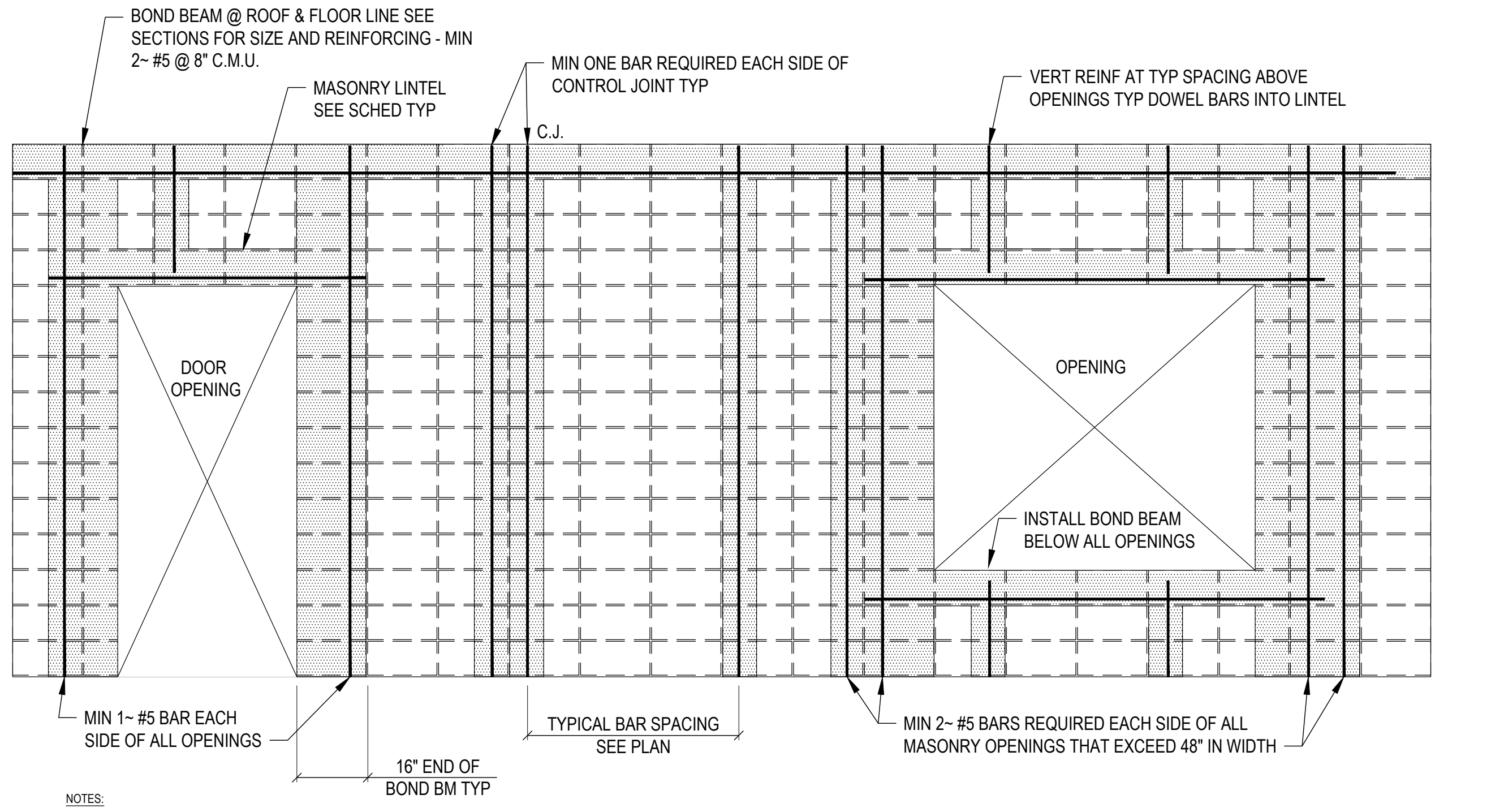


NOTES:
1. SEE ARCHITECTURAL DRAWINGS FOR CONTROL JOINT LOCATIONS.
2. DISCONTINUE HORIZONTAL JOINT REINFORCING AT CONTROL JOINTS.
3. UNLESS OTHERWISE SHOWN OR NOTED, SPACING OF CONTROL JOINTS SHALL NOT EXCEED 24 FEET.

NOTE:
REINFORCING SHALL HAVE 3/4" MINIMUM GROUT COVER TO ALL C.M.U. SURFACES.

TYPICAL C.M.U. CNTRL JT & BOND BEAM

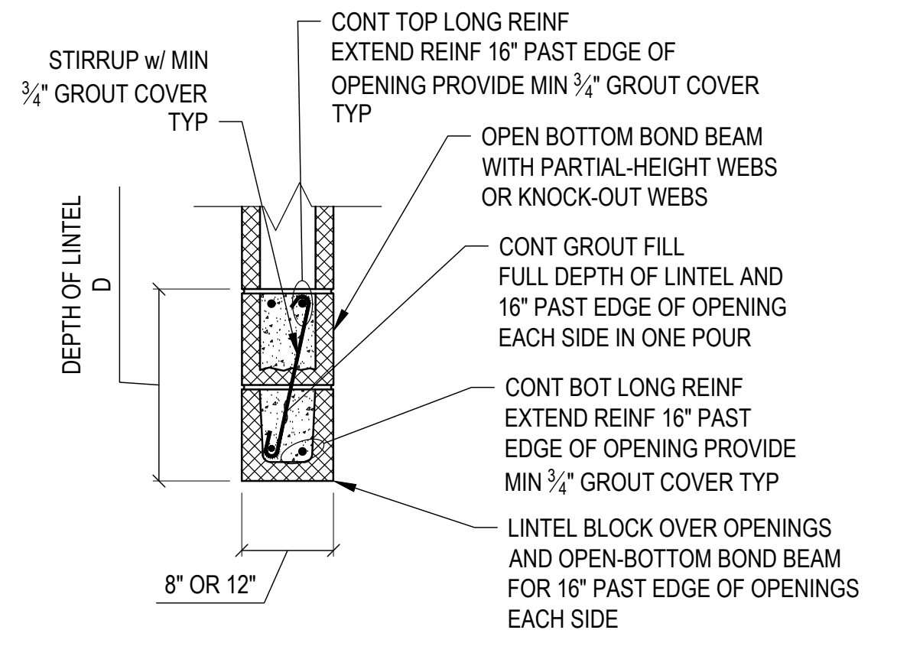
SCALE: 1/2"=1'-0"



NOTES:
1. MINIMUM VERTICAL WALL REINFORCING SHALL BE #5 @ 2'-0" UNLESS NOTED OTHERWISE.
2. VERTICAL WALL REINFORCING SHALL BE CONTINUOUS.
3. SEE DETAILS FOR DOWELS REQUIRED AT BASE OF WALLS.
4. CENTER REINFORCING BARS IN GROUTED CELLS UNLESS NOTED OTHERWISE.
5. USE BAR POSITIONERS AT MINIMUM 4'-0" SPACING TO SUPPORT REINFORCING BARS.
6. FOLLOW SPECIFIED GROUTING PROCEDURES.
7. CLEAN MORTAR FROM EDGES OF CELLS SO GROUT CAN FLOW SMOOTHLY AND FILL ENTIRE CELL.
8. USE LINTEL BLOCK OVER OPENINGS AND CONTINUE WITH OPEN-BOTTOM BOND BEAM FROM EDGE OF OPENING INTO WALL SO THAT VERTICAL REINFORCING AT JAMB CAN PASS.
9. CONTROL JOINTS SHALL EXTEND FULL HEIGHT OF WALL AND ALIGN FROM FLOOR TO FLOOR.
10. WHERE A CONTROL JOINT OCCURS THROUGH A BOND BEAM OR LINTEL BEARING, PROVIDE 2~ ½" DOWELS ACROSS JOINT WITH GREASE ON ONE SIDE. DO NOT CONTINUE HORIZONTAL REINFORCING ACROSS CONTROL JOINT.
11. CONCRETE MASONRY THIS PROJECT SHALL BE LAID IN STACK BOND CONFIGURATION SHOWN.

C.M.U. TYPICAL OPENING REINFORCEMENT

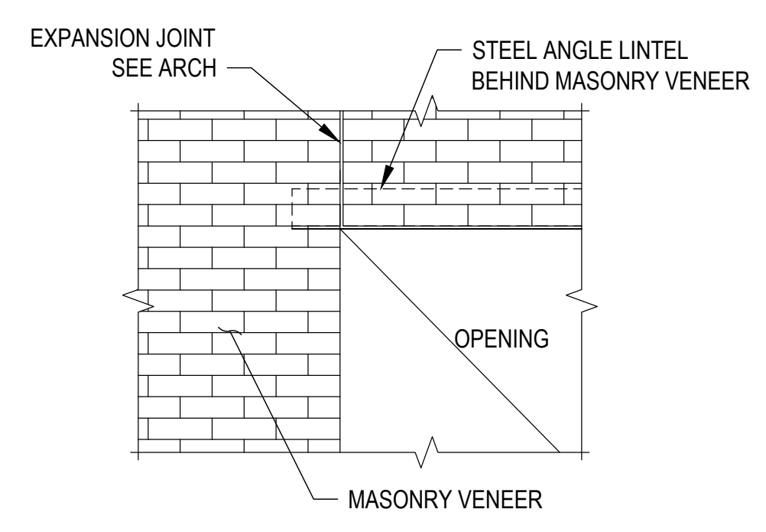
SCALE: 1/2"=1'-0"



MASONRY LINTEL SCHEDULE

MAX OPENING SIZE	D	BOTTOM REINF		TOP REINF	STIRRUPS
5'-0"	8"	2~#5		NONE	NONE
8'-0"	16"	2~#5		NONE	NONE
11'-8"	24"	2~#5 (8" C.M.U.)	2~#6 (12" C.M.U.)	NONE	NONE
18'-0"	24"	2~#5 (8" C.M.U.)	2~#6 (12" C.M.U.)	2~#5	#3@8"

NOTES:
1. DO NOT USE THIS SCHEDULE IF CONCENTRATED LOAD IS APPLIED TO THE LINTEL AT A HEIGHT LESS THAN HALF THE SPAN ABOVE THE LINTEL OR IF STACK BOND IS SPECIFIED.
2. IN LIEU OF USING LINTEL BLOCK ON THE BOTTOM OF LINTELS WHICH, REQUIRES SHORING DURING CONSTRUCTION, CONTRACTOR MAY USE PRESTRESSED, PRECAST CONCRETE LINTELS BY "CAST-CRETE" (WWW.CASTCRETE.COM) OR APPROVED EQUAL. SUBMIT PRODUCT DATA AND A PLAN AND SCHEDULE OF LINTEL LOCATIONS AND SIZES FOR APPROVAL FOR THIS OPTION



LOOSE LINTEL SCHEDULE (FOR MASONRY VENEER)

THIS SCHEDULE IS FOR LINTELS OVER MASONRY OPENINGS NOT OTHERWISE SHOWN OR NOTED ON DRAWINGS.

SPAN	ANGLE SIZE	PLAN MARK
UP TO 4'-0"	L3x 3½ x$\frac{5}{16}$ LLV	AL-1
UP TO 5'-6"	L4x 3½ x$\frac{5}{16}$ LLV	AL-2
UP TO 7'-6"	L5x 3½ x$\frac{5}{16}$ LLV	AL-3
UP TO 9'-6"	L6x 3½ x$\frac{5}{16}$ LLV	AL-4

NOTES:
1. PROVIDE ONE ANGLE FOR EACH 4" OF MASONRY WALL
2. ANGLES EXPOSED TO WEATHER SHALL BE GALVANIZED.
3. MINIMUM BEARING LENGTH SHALL BE 4" EACH END.

TYPICAL MASONRY LINTEL DETAILS

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

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STRUCTURAL GENERAL NOTES & TYPICAL DETAILS

BREATHITT COUNTY PUBLIC SCHOOLS
SEBASTIAN ELEMENTARY SCHOOL - PARTIAL RENOVATION
244 L.B.J. Rd. JACKSON, KY 41339

Proj. #: 1901
Date: MAY 16, 2019
Drawn: MWC
Checked: MWC
Revised:

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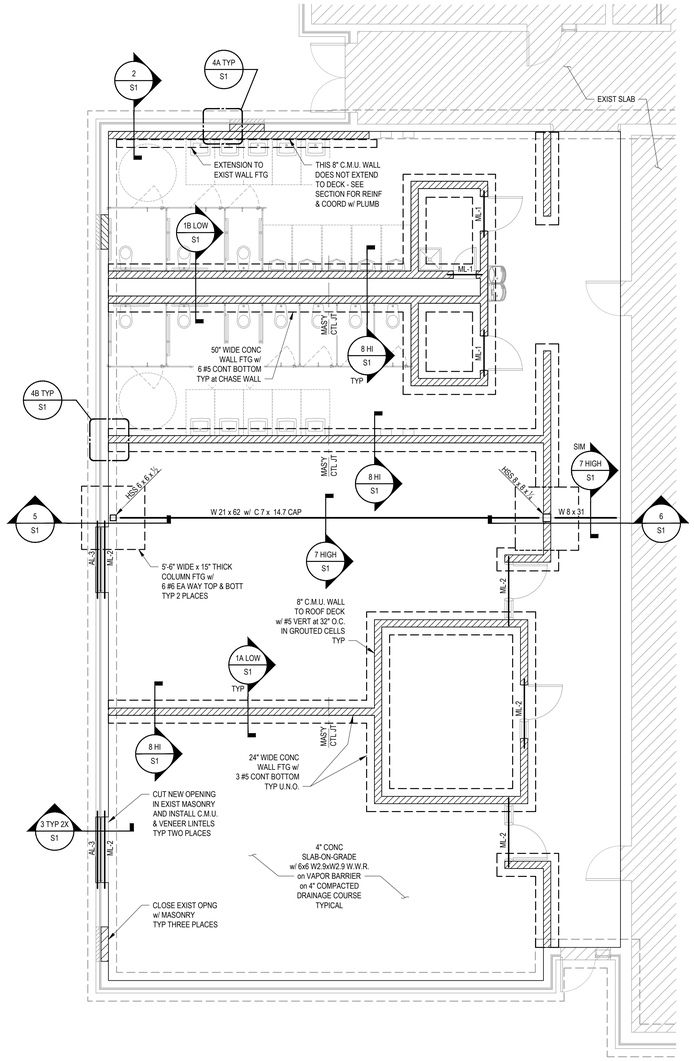
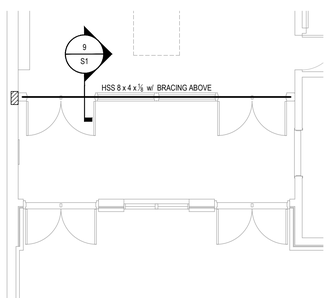


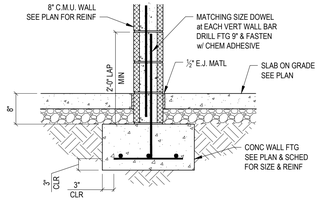
BATHROOM / OFFICE / CLASSROOMS STRUCTURAL PLAN

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



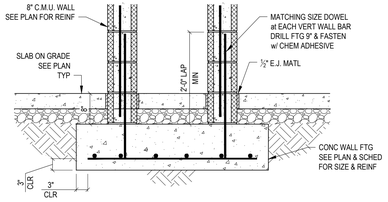
VESTIBULE STRUCTURAL PLAN

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



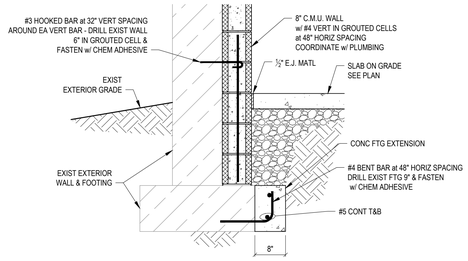
1A SECTION

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



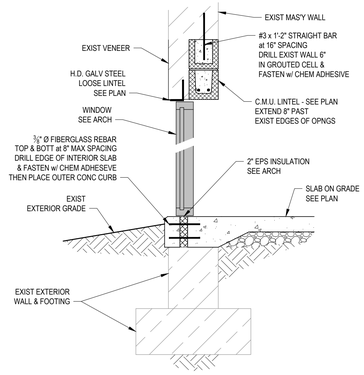
1B SECTION

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



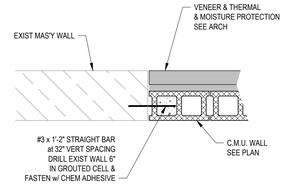
2 SECTION

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



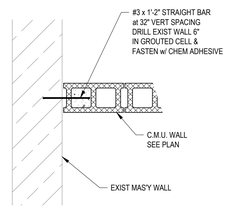
3 SECTION

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



4A SECTION

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



4B SECTION

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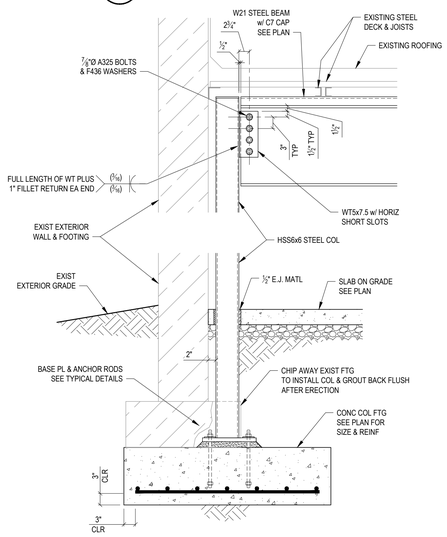
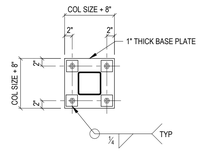
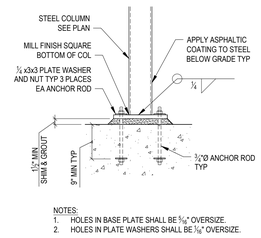


5 SECTION

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

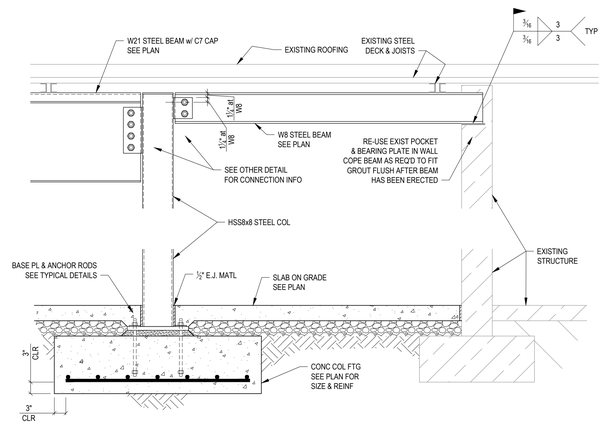




NOTES:
1. HOLES IN BASE PLATE SHALL BE ⅝" OVERSIZE.
2. HOLES IN PLATE WASHERS SHALL BE ⅞" OVERSIZE.

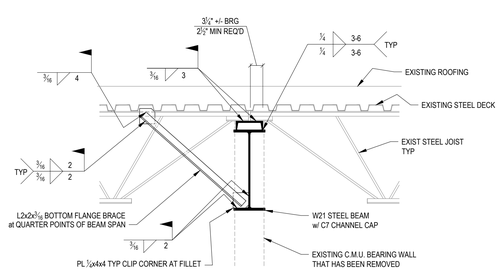
TYPICAL COL BASE PLATE & ANCHOR ROD DETAIL

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



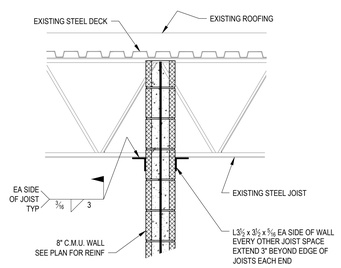
6 SECTION

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



7 SECTION

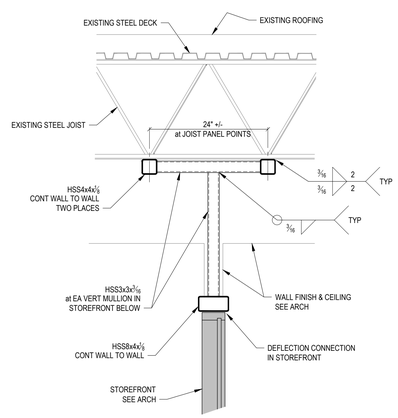
SCALE: 3/4"=1'-0"



NOTE:
THIS DETAIL APPLIES AT THE FOUR NORTH-SOUTH RUNNING WALLS INDICATED ON THE PLAN.

8 SECTION

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



9 SECTION

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

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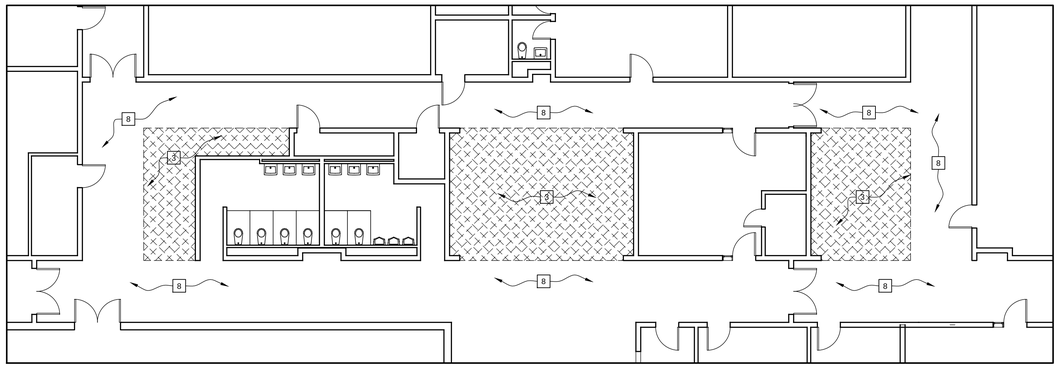
STRUCTURAL PLANS, SECTIONS & DETAILS

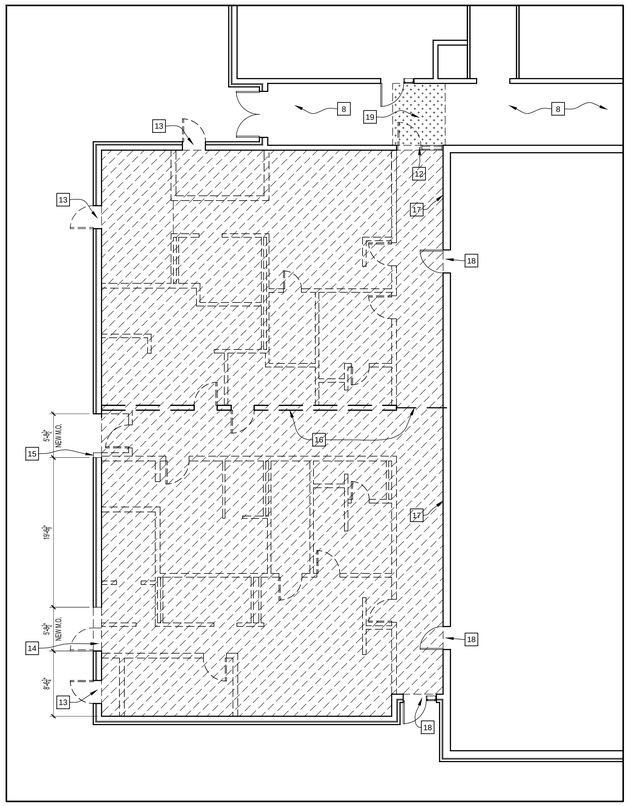
BREATHITT COUNTY PUBLIC SCHOOLS
SEBASTIAN ELEMENTARY SCHOOL - PARTIAL RENOVATION
244 L.B.J. Rd. JACKSON, KY 41339

Proj. #: 1901
Date: MAY 16, 2019
Drawn: MFI
Checked: SO
Revised:

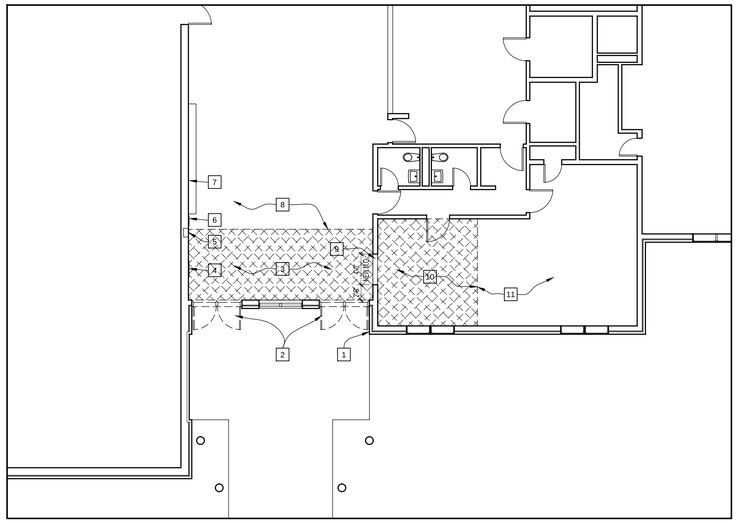
S1



B D1.1 AREA 'B' - DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



A D1.1 AREA 'C' - DEMOLITION PLAN
SCALE: 1/4" = 1'-0"



A D1.1 AREA 'A' - DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

DEMOLITION - GENERAL NOTES

A. **DO NOT SCALE DRAWINGS. DRAWINGS VARY IN SCALE AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONFIRM.** WRITTEN DIMENSIONS ARE TO BE VERIFIED IN THE FIELD BY GENERAL CONTRACTOR WITH ARCHITECT AFTER DEMOLITION AND PRIOR TO ANY WORK ON NEW PARTITIONS. ARCHITECT IS TO BE NOTIFIED OF ANY FIELD MEASUREMENT DISCREPANCIES PRIOR TO BEGINNING WORK IN THAT AREA. DIMENSIONS ARE TO FINISHED FACE OF EXISTING AND TO FRAMING FOR NEW UNLESS NOTED. DOOR OPENINGS ARE NOMINAL FINISH DOOR WIDTHS. REFER TO MANUFACTURER FOR ACTUAL ROUGH OPENING DIMENSIONS.

B. GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL MATERIAL SCHEDULED FOR DEMOLITION FROM SITE - REFER TO GENERAL REQUIREMENTS OF SPECIFICATIONS FOR MORE INFORMATION. MATERIALS IDENTIFIED BY OWNER AS SALVAGED ARE TO BE DELIVERED TO THE LOCATION SPECIFIED BY OWNER. ALL OTHER MATERIALS SHALL BE CONSIDERED TRASH. TRASH COLLECTION AND REMOVAL FROM THE CONSTRUCTION AREAS TO THE DUMPSTER ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR - SEE SPECIAL CONDITIONS OF THE SPECIFICATIONS.

C. REFER TO STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION REQUIREMENTS.

D. IDENTIFICATION OF MATERIALS TO BE DEMOLISHED AND / OR REMOVED IS PROVIDED AS A CONVENIENCE FOR THE GENERAL CONTRACTOR. FAILURE TO IDENTIFY A MATERIAL REQUIRING REMOVAL/DEMOLITION IN ORDER FOR THE NEW WORK TO BE COMPLETED DOES NOT RELIEVE THE GENERAL CONTRACTOR OF BEING RESPONSIBLE FOR PERFORMING THE NECESSARY WORK.

E. PROTECT ALL EXISTING BUILDING FINISHES AND CONSTRUCTION WHICH ARE TO REMAIN WHILE REMOVING DEMOLITION MATERIALS AND EXECUTING DEMOLITION. PREPARE IN ADVANCE TO PROVIDE THIS PROTECTION PRIOR TO AND THROUGHOUT DEMOLITION.

F. WORK IS TO BE LIMITED TO AREA DESIGNATED BY THE DRAWINGS. MINIMAL DISRUPTION IS TO OCCUR IN THE ADJACENT AREAS. ALL AREAS TO RECEIVE ANY CONSTRUCTION TRAFFIC ARE TO HAVE FLOOR FINISHES PROTECTED. ALL OTHER AREAS ARE TO BE KEPT CLEAN AND FREE OF CONSTRUCTION DISRUPTION. ANY FINISH THAT IS DAMAGED DURING CONSTRUCTION WILL BE REPLACED AT THE GENERAL CONTRACTOR'S EXPENSE.

G. SOLID CONSTRUCTION BARRIERS OF WOOD FRAMING AND PLYWOOD SHEATHING WITH ARE TO BE INSTALLED TO PROVIDE DUST PROTECTION BETWEEN AREAS OF WORK AND ADJACENT OWNER OCCUPIED AREAS. EGRESS CORRIDORS MUST BE KEPT OPEN THROUGHOUT THE PROJECT FOR EMERGENCY ACCESS BY BUILDING OCCUPANTS - COORDINATE WITH LOCAL FIRE MARSHALL.

H. REFER TO ROOM FINISH SCHEDULE FOR NEW FINISHES, SHEET A3.0.

J. PATCH AND REPAIR TO "LIKE NEW" CONDITION ALL EXISTING SURFACES CUT OR ROUTED FOR INSTALLATION OF NEW MECHANICAL AND/OR ELECTRICAL SERVICES. COORDINATE WITH THE MECHANICAL AND ELECTRICAL DRAWINGS.

K. PATCH AND REPAIR TO "LIKE NEW" CONDITION ALL EXISTING CONSTRUCTION AND/OR FINISHES DISTURBED BY DEMOLITION WORK. PATCH EXISTING FINISHES WERE SURFACE OR RECESSED MOUNTED ITEMS REMOVED DURING DEMOLITION AND/OR SURFACES CUT OR ROUTED FOR INSTALLATION OF NEW WORK OR REMOVAL OF OLD SYSTEMS NOT SCHEDULED FOR REUSE. COORDINATE WITH THE MECHANICAL AND ELECTRICAL DRAWINGS. THIS REQUIREMENT APPLIES TO ANY/ALL LOCATIONS INCLUDING THOSE WHICH ARE NOT REPRESENTED ON THE DRAWINGS. MASONRY PATCHES TO BE W/ MATCHING MASONRY TOOTHED INTO EXISTING.

L. REMOVE BRICK MASONRY VENEER CAREFULLY FOR REUSE IN FILLING AND PATCHING OF EXISTING OR NEW OPENINGS, TO MATCH EXISTING WORK.

M. REMOVE ALL EXISTING ACT SYSTEM CEILINGS IN THEIR ENTIRETY, INCLUDING HANGING WIRES, IN AREAS OF DEMOLITION.

N. REMOVE ALL RESILIENT FLOORING, TILE, CARPET AND VINYL BASE IN AREAS OF DEMOLITION.

P. ASBESTOS MATERIAL - THE OWNER IS TO REMOVE ALL ASBESTOS CONTAINING MATERIALS UNDER SEPARATE CONTRACT AS REQUIRED PRIOR TO WORK OF EACH PHASE BEGINNING.

Q G.C. TO PROVIDE ANY/ALL SHORING REQUIRED TO PROTECT EXISTING STRUCTURE AND FINISHES DURING NEW WORK.

DEMOLITION - TAG NOTES

1. EXISTING "AIPHONE" AUDIO/VIDEO INTERCOM SYSTEM, WALL MOUNTED IN THIS LOCATION, IS TO REMAIN IN SERVICE. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
2. REMOVE EXISTING HOLLOW METAL DOORS AND FRAMES IN THEIR ENTIRETY. PREPARE EXISTING MASONRY OPENING FOR INSTALLATION OF NEW DOOR AND FRAME. REFER TO ELECTRICAL DRAWINGS FOR INFORMATION ON "AIPHONE" WIRING.
3. REMOVE AREA OF EXISTING ACOUSTICAL CEILING TILE SYSTEM AND VCT FLOORING IN AREA OF NEW WORK. SALVAGE ACT MATERIAL FOR REUSE IN PATCHING ADJACENT AREAS AFTER NEW WORK. REFER TO MEP DRAWINGS FOR INFORMATION REGARDING EXISTING MEP ITEMS IN THIS AREA.
4. EXISTING BRONZE BUILDING MEMORIAL PLAQUE IN THIS AREA TO REMAIN. DO NOT DISTURB.
5. EXISTING FIRE EXTINGUISHER & RECESSED CABINET. CAREFULLY REMOVE AND SALVAGE FOR REINSTALLATION IN ADJACENT LOBBY WALL.
6. EXISTING BRONZE BUILDING MEMORIAL PLAQUE. REMOVE AND SALVAGE FOR REINSTALLATION ON ADJACENT LOBBY WALL.
7. EXISTING WOOD TROPHY CASE TO REMAIN IN PLACE. DO NOT DISTURB.
8. EXISTING ACOUSTICAL CEILING TILE SYSTEM AND VCT FLOORING TO REMAIN IN PLACE ADJACENT TO NEW WORK. DO NOT DISTURB.
9. REMOVE EXISTING BULLETIN BOARD ON THIS WALL AND CUT OUT MASONRY FOR NEW MASONRY OPENING WITH WINDOW.
10. REMOVE AREA OF EXISTING ACOUSTICAL CEILING TILE SYSTEM IN AREA OF NEW RECEPTION 103. DO NOT DISTURB EXISTING VCT FLOORING. REFER TO MEP DRAWINGS FOR INFORMATION REGARDING EXISTING MEP ITEMS IN THIS AREA.
11. EXISTING ACOUSTICAL CEILING TILE SYSTEM AND VCT FLOORING TO REMAIN IN PLACE ADJACENT TO NEW RECEPTION 103 WORK. DO NOT DISTURB.
12. REMOVE EXISTING HOLLOW METAL DOOR AND FRAME. PREPARE EXISTING OPENING FOR INSTALLATION OF NEW FRAME.
13. REMOVE EXISTING EXTERIOR DOOR AND FRAME IN THEIR ENTIRETY.
14. REMOVE EXISTING EXTERIOR DOOR AND FRAME AND MASONRY WALL CONSTRUCTION FOR NEW MASONRY OPENING FOR NEW WINDOW. REFER TO STRUCTURAL DRAWINGS FOR NEW LINTEL.
15. REMOVE EXISTING MASONRY WALL CONSTRUCTION FOR ENLARGED MASONRY OPENING FOR NEW WINDOW. REFER TO STRUCTURAL DRAWINGS FOR NEW LINTEL.
16. EXISTING LOAD BEARING WALL AND BEAM (OVER CORRIDOR) ARE TO BE REMOVED IN THEIR ENTIRETY. GC IS TO PROVIDE SHORING FOR EXISTINGSTEEL ROOF JOISTS AND ROOF DECKING. REFER TO STRUCTURAL DRAWINGS FOR NEW STEEL BEAM AND COLUMNS.
17. EXISTING MASONRY WALL TO REMAIN. DO NOT DISTURB.
18. EXISTING HOLLOW METAL DOOR AND FRAME TO REMAIN. DO NOT DISTURB.
19. CUT OUT AREA OF EXISTING CONCRETE SLAB IN EXISTING CORRIDOR TO ACCESS UNDERSLAB SANITARY SEWER LINE FOR CONNECTION OF NEW, FULL WIDTH OF CORRIDOR. SEE PLUMBING DRAWINGS.

DEMOLITION PLAN LEGEND

	EXISTING AREA OF FULL INTERIOR DEMOLITION IN PREPARATION FOR NEW WORK. REMOVE ALL INTERIOR ITEMS INCLUDING CONCRETE SLAB, CMU & FRAMED WALLS, SUSPENDED ACT AND/OR GYP. BD. CEILINGS, MEP ITEMS, FINISHES AND FURNISHINGS. REFER TO DEMOLITION TAG NOTES FOR SPECIFIC ITEMS. REFER TO MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
	EXISTING AREA OF PARTIAL INTERIOR DEMOLITION IN PREPARATION FOR NEW WORK. REFER TO DEMOLITION TAG NOTES FOR SPECIFIC ITEMS. REFER TO MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
	EXISTING WALL CONSTRUCTION TO REMAIN.
	EXISTING WALL CONSTRUCTION TO BE REMOVED IN IT'S ENTIRETY.
	EXISTING DOOR & FRAME ASSEMBLY TO BE REMOVED IN THEIR ENTIRETY.

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DEMOLITION PLANS

BREATHITT COUNTY PUBLIC SCHOOLS
SEBASTIAN ELEMENTARY SCHOOL - PARTIAL RENOVATION
244 L.B.J. Rd. JACKSON, KY 41339

Proj. #: 1901
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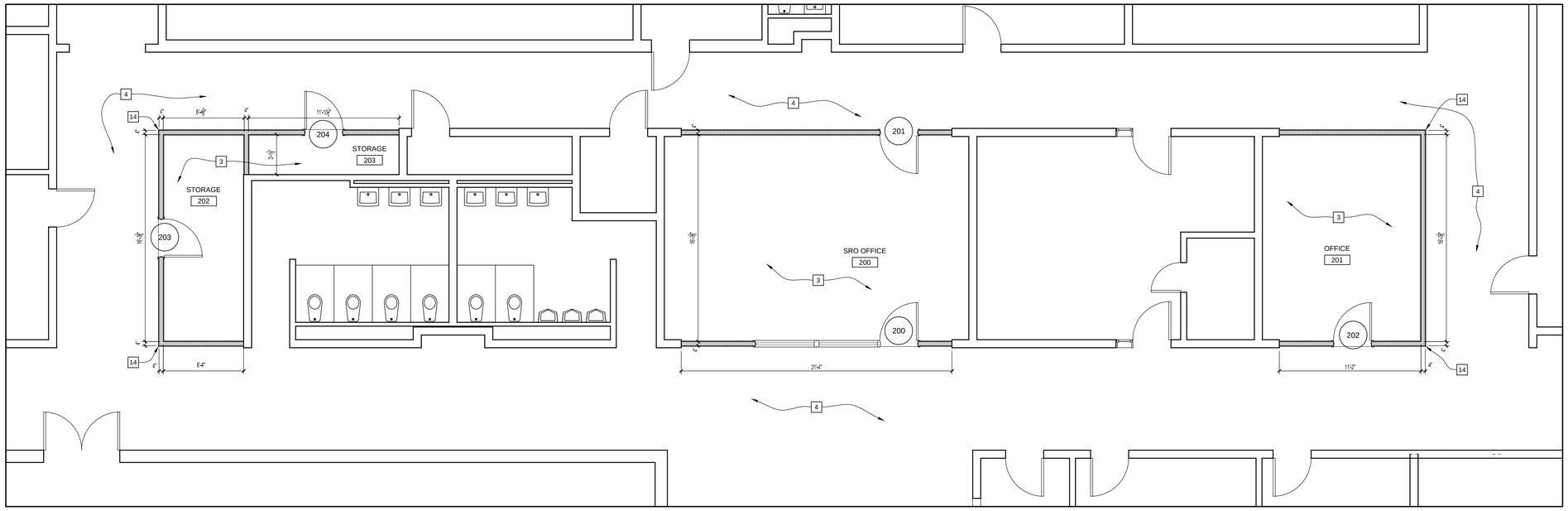
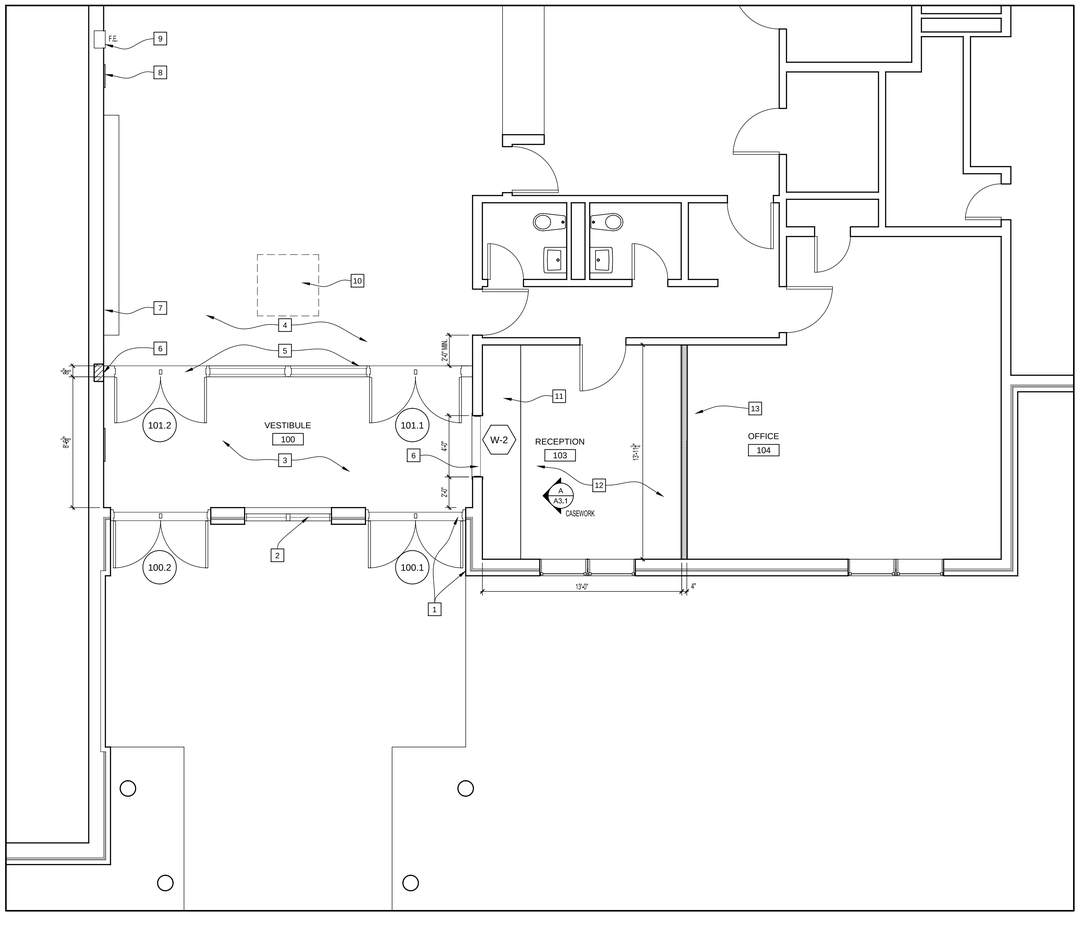


B
A1.1

AREA 'B' - PLAN

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



A
A1.1

AREA 'A' - PLAN

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

GENERAL NOTES: NEW WORK

A. **DO NOT SCALE DRAWINGS. DRAWINGS VARY IN SCALE AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONFIRM.** WRITTEN DIMENSIONS ARE TO BE VERIFIED IN THE FIELD BY GENERAL CONTRACTOR WITH ARCHITECT AFTER DEMOLITION AND PRIOR TO ANY WORK ON NEW PARTITIONS. ARCHITECT IS TO BE NOTIFIED OF ANY FIELD MEASUREMENT DISCREPANCIES PRIOR TO BEGINNING WORK IN THAT AREA.

B. IT IS THE INTENT OF THE DRAWINGS TO IDENTIFY ALL LINTEL REQUIREMENTS ON THE DRAWINGS, HOWEVER IT IS THE CONTACTOR'S RESPONSIBILITY TO PROVIDE ALL LINTELS NECESSARY TO COMPLETE THE CONSTRUCTION IF THE DRAWINGS DO NOT IDENTIFY THE TYPE OF LINTEL TO BE USED AT A LOCATION WHERE ONE IS REQUIRED. REFER TO THE LINTEL SCHEDULE PROVIDED ON THE STRUCTURAL DRAWINGS.

C. ALL NEW AND EXISTING WALLS SHALL EXTEND TO THE UNDERSIDE OF THE ROOF DECK UNLESS OTHERWISE NOTED. STUD WALLS SHALL BE FULLY INSULATED WITH ACOUSTIC BATTS. ALL PENETRATIONS SHALL BE SEALED.

D. ALL DIMENSIONS ARE REFERENCED FROM FINISH FACE OF MASONRY (EXISTING OR NEW) OR FACE OF METAL FRAMING UNLESS OTHERWISE INDICATED.

E. DURING RENOVATION, COVER AND PROTECT ANY EXISTING MATERIALS WHICH ARE TO REMAIN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PATCH AND REPAIR ANY EXISTING MATERIAL DAMAGED DURING THE WORK OF THIS CONTRACT.

F. REFER TO STRUCTURAL, MECHANICAL, PLUMBING & ELECTRICAL DRAWINGS FOR ADDITIONAL WORK.

G. THE ADJACENT BUILDING AREAS WILL NOT BE OCCUPIED DURING THE COURSE OF THE WORK OF THIS CONTRACT. ADJACENT AREAS ARE OFF LIMITS TO CONSTRUCTION PERSONNEL.

H. REFER TO REFLECTED CEILING PLANS FOR CEILING CONDITIONS.

I. WHERE EXISTING PARTITIONS ARE REMOVED, ADJOINING WALL AND FLOOR SURFACES ARE TO BE REPAIRED TO PROVIDE A CONTINUOUS SMOOTH FINISHED SURFACE. MASONRY IS TO BE TOOTHED INTO ADJACENT UNLESS OTHERWISE NOTED.

J. REUSE OF SALVAGED BRICK: WHERE EXISTING OPENINGS ARE TO BE INFILLED OR NEW OPENING ARE TO BE CUT OUT IN EXISTING EXTERIOR WALLS, USE SALVAGED BRICK TO MATCH ADJACENT BRICK IN COLOR AND BOND PATTERN. MATCH ADJACENT MORTAR COLOR. TOOTH-IN/OUT ALL MASONRY.

K. CONSTRUCTION SHALL COVER ALL WORK AS SHOWN ON THE DRAWING, AND IS TO INCLUDE ANY WORK REQUIRED TO MEET THE INTENTION OF THE WORK SHOWN ON THE OTHER DRAWINGS. CONTRACTOR HAS THE RESPONSIBILITY TO REFER TO ALL DRAWINGS, SITE INFORMATION, AND VERIFY ALL CONDITIONS IN FIELD BEFORE COMMENCING WORK. COMMENCING WORK MEANS ACCEPTANCE OF ALL CONDITIONS.

L. REFER TO ROOM FINISH SCHEDULE FOR ALL FINISHES, SHEET A3.1.

M. ALL EXISTING SURFACES WITH A PAINT FINISH IN WORK AREA OF THIS CONTRACT SHALL RECEIVE NEW PAINT IN ACCORDANCE WITH SS 099000. PREP AND PRIME SURFACE AS REQUIRED.

N. PATCH AND REPAIR TO "LIKE NEW" CONDITION ALL EXISTING SURFACES CUT OR ROUTED FOR RECESSED INSTALLATION OF NEW WORK INCLUDING MECHANICAL AND / OR ELECTRICAL SYSTEM. COORDINATE WITH THE MECHANICAL AND ELECTRICAL DRAWINGS.

O. NO NEW ROOF WORK IS INCLUDED IN THIS PROJECT. EXISTING ROOF PENETRATIONS/CURBS IN AREA 'C' ARE TO BE REUSED BY NEW PLUMBING AND MECHANICAL WORK, OR SEALED WITH NEW INSULATED CAPS. REFER TO MEP DRAWINGS.

NEW WORK - TAG NOTES

1. EXISTING "AIPHONE" AUDIO/VIDEO INTERCOM SYSTEM, WALL MOUNTED IN THIS LOCATION, IS TO REMAIN IN SERVICE. REFER TO ELECTRICAL DRAWINGS FOR INFORMATION ON CONNECTION TO NEW DOOR HARDWARE.
2. EXISTING HOLLOW METAL, CIRCULAR STEEL WINDOW FRAME TO REMAIN. REPAINT.
3. PROVIDE NEW ACOUSTICAL CEILING TILE SYSTEM AND VCT FLOORING IN AREA. REFER TO FIRE PROTECTION, ELECTRICAL AND MECHANICAL DRAWINGS FOR ADDITIONAL WORK.
4. PATCH EXISTING ACT CEILING AGAINST NEW GYP. BD. WALL WITH SALVAGED ACT MATERIAL. EXISTING VCT FLOORING TO REMAIN IN PLACE.
5. NEW HOLLOW METAL FRAME AND DOORS WITH NEW METAL FRAMING/GYP BD. WALL ABOVE TO ROOF STRUCTURE. REFER TO STRUCTURAL DWGS FOR NEW STRUCTURAL STEEL TUBE MOUNTED ABOVE FRAME. PAINT. REFER TO ELECTRICAL DRAWINGS FOR INFORMATION ON CONNECTION TO NEW DOOR HARDWARE.
6. PATCH EXISTING MASONRY OPENING WHERE FIRE EXTINGUISHER CABINET WAS REMOVED. TOOTH-IN NEW MASONRY.
7. EXISTING WOOD TROPHY CASE TO REMAIN IN PLACE. DO NOT DISTURB.
8. EXISTING BRONZE BUILDING MEMORIAL PLAQUE, REINSTALLED IN NEW LOCATION. VERIFY LOCATION WITH OWNER.
9. EXISTING FIRE EXTINGUISHER & RECESSED CABINET, REINSTALLED IN NEW MASONRY OPENING IN THIS LOCATION.
10. NEW TRANSACTION WINDOW IN NEW MASONRY OPENING. PROVIDE NEW HOLLOW METAL FRAME WITH 1/2" TEMPERED GLASS WITH SPEAK-THRU GRILL AND TRANSACTION CUT OUTAS SHOWN ON DWGS. REFER TO WINDOW TYPE ELEVATIONS AND SCHEDULE ON SHEET A3.1.
11. NEW LAMINATE BASE CABINETS AND SOLID SURFACE COUNTERTOP. SEE CASEWORK ELEVATION A/A3.1. SS 064100.
12. PROVIDE NEW ACT CEILING IN THIS AREA. REFER TO FP & MEP DRAWINGS FOR ADDITIONAL INFORMATION. DO NOT DISTURB EXISTING VCT.
13. PATCH EXISTING ACT CEILING AGAINST NEW GYP. BD. WALL WITH SALVAGED ACT MATERIAL. EXISTING VCT FLOORING TO REMAIN IN PLACE.
14. NEW RIGID VINYL CORNER GUARD ON NEW METAL FRAMED/GYP. BD. WALL. PROVIDE SOLID WOOD BLOCKING. SS 109500.

SYMBOLS LEGEND

EXISTING STACK BOND MASONRY WALL ASSEMBLY TO REMAIN. PATCH TO MATCH ABANDONED HOLES &/OR OPENINGS. TOOTH IN NEW WORK TO EXISTING. SS 04 20 00. PAINT. SS 09 90 00.

NEW CMU WALL, THICKNESS AS DIMENSIONED. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS. SS 04 20 00. EXTEND TO UNDERSIDE OF ROOF DECK ABOVE. PROVIDE 4" METAL FRAMING & 5/8" GYPSUM BOARD (ONE SIDE) & 3.5" ACOUSTIC BATT INSULATION AT TOP OF WALL WHERE GAPS/OPENINGS OCCUR FOR SOLID ACOUSTICAL SEPARATION OF SPACES.

NEW INTERIOR 4" METAL FRAMING PARTITION WALL. 20 GAGE STUDS @ 16\ OC W/ 5/8\ GYPSUM WALLBOARD EA. SIDE & 3.5\ ACOUSTIC BATT INSULATION. EXTEND STUDS TO UNDERSIDE OF ROOF DECK ABOVE. SS 09 21 16. PAINT. SS 09 90 00.

1 / A1.1 — ENLARGED PLAN / DETAIL IDENTIFICATION

A / A3.1 — ELEVATION DESIGNATION

W-1 — WINDOW TYPE IN NEW OR EXISTING MASONRY OPENING. REFER TO WINDOW SCHEDULE ON DRAWING A2.0

— DOOR OPENING DESIGNATION. REFER TO SCHEDULE ON DRAWING A2.0

1 — TAG NOTE, REFER TO LEGENDS ON SHEET WHERE NOTE IS REFERENCED.

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ENLARGED FLOOR PLANS - AREAS 'A' & 'B'

BREATHITT COUNTY PUBLIC SCHOOLS
SEBASTIAN ELEMENTARY SCHOOL - PARTIAL RENOVATION
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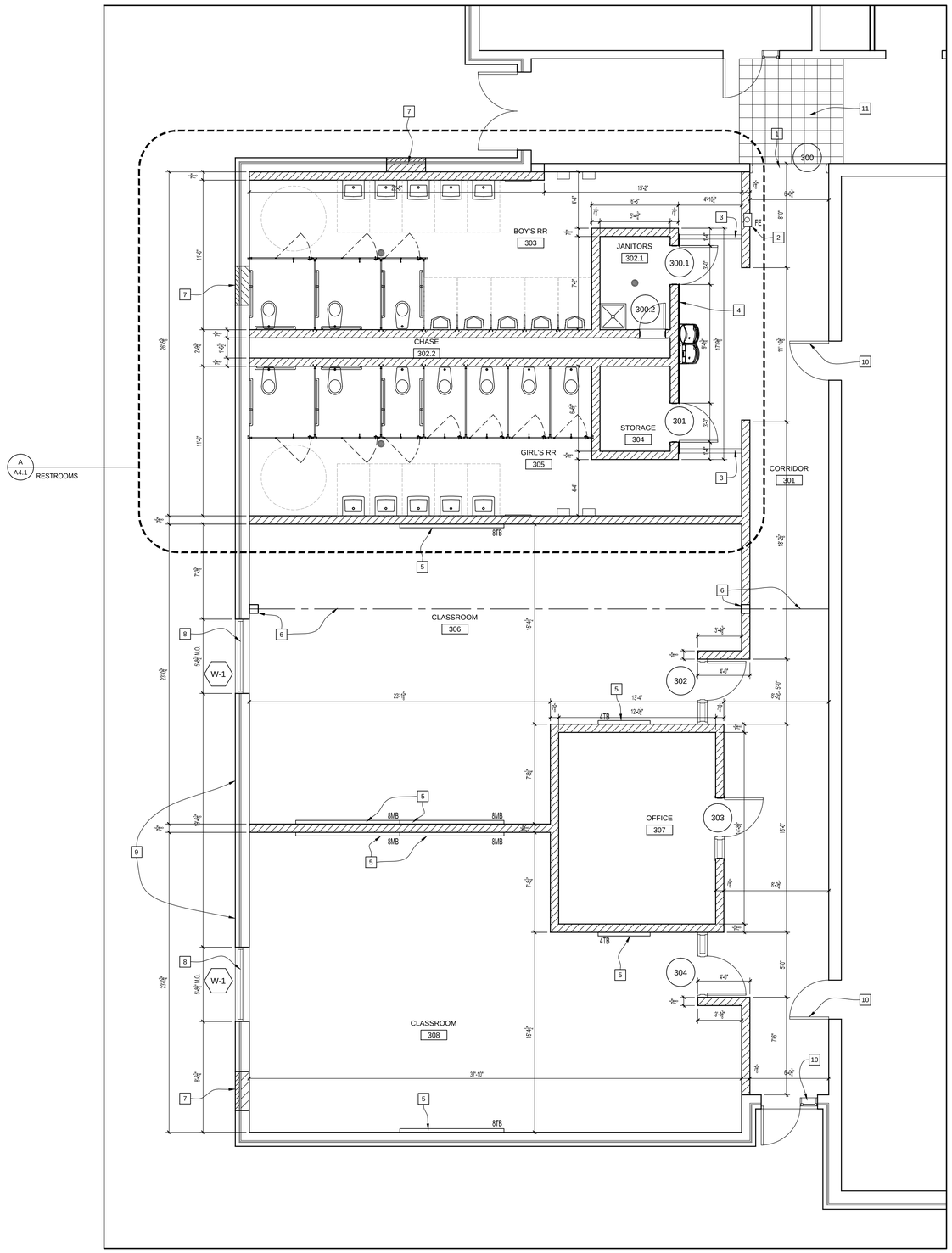

A
A1.2
AREA 'C' - PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES: NEW WORK

A. **DO NOT SCALE DRAWINGS. DRAWINGS VARY IN SCALE AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONFIRM.** WRITTEN DIMENSIONS ARE TO BE VERIFIED IN THE FIELD BY GENERAL CONTRACTOR WITH ARCHITECT AFTER DEMOLITION AND PRIOR TO ANY WORK ON NEW PARTITIONS. ARCHITECT IS TO BE NOTIFIED OF ANY FIELD MEASUREMENT DISCREPANCIES PRIOR TO BEGINNING WORK IN THAT AREA.

B. IT IS THE INTENT OF THE DRAWINGS TO IDENTIFY ALL LINTEL REQUIREMENTS ON THE DRAWINGS, HOWEVER IT IS THE CONTACTOR'S RESPONSIBILITY TO PROVIDE ALL LINTELS NECESSARY TO COMPLETE THE CONSTRUCTION IF THE DRAWINGS DO NOT IDENTIFY THE TYPE OF LINTEL TO BE USED AT A LOCATION WHERE ONE IS REQUIRED. REFER TO THE LINTEL SCHEDULE PROVIDED ON THE STRUCTURAL DRAWINGS.

C. ALL NEW AND EXISTING WALLS SHALL EXTEND TO THE UNDERSIDE OF THE ROOF DECK UNLESS OTHERWISE NOTED. STUD WALLS SHALL BE FULLY INSULATED WITH ACOUSTIC BATTS. ALL PENETRATIONS SHALL BE SEALED.

D. ALL DIMENSIONS ARE REFERENCED FROM FINISH FACE OF MASONRY (EXISTING OR NEW) OR FACE OF METAL FRAMING UNLESS OTHERWISE INDICATED.

E. DURING RENOVATION, COVER AND PROTECT ANY EXISTING MATERIALS WHICH ARE TO REMAIN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PATCH AND REPAIR ANY EXISTING MATERIAL DAMAGED DURING THE WORK OF THIS CONTRACT.

F. REFER TO STRUCTURAL, MECHANICAL, PLUMBING & ELECTRICAL DRAWINGS FOR ADDITIONAL WORK.

G. THE ADJACENT BUILDING AREAS WILL NOT BE OCCUPIED DURING THE COURSE OF THE WORK OF THIS CONTRACT. ADJACENT AREAS ARE OFF LIMITS TO CONSTRUCTION PERSONNEL.

H. REFER TO REFLECTED CEILING PLANS FOR CEILING CONDITIONS.

I. WHERE EXISTING PARTITIONS ARE REMOVED, ADJOINING WALL AND FLOOR SURFACES ARE TO BE REPAIRED TO PROVIDE A CONTINUOUS SMOOTH FINISHED SURFACE. MASONRY IS TO BE TOOTHED INTO ADJACENT UNLESS OTHERWISE NOTED.

J. REUSE OF SALVAGED BRICK: WHERE EXISTING OPENINGS ARE TO BE INFILLED OR NEW OPENING ARE TO BE CUT OUT IN EXISTING EXTERIOR WALLS, USE SALVAGED BRICK TO MATCH ADJACENT BRICK IN COLOR AND BOND PATTERN. MATCH ADJACENT MORTAR COLOR. TOOTH-IN/OUT ALL MASONRY.

K. CONSTRUCTION SHALL COVER ALL WORK AS SHOWN ON THE DRAWING, AND IS TO INCLUDE ANY WORK REQUIRED TO MEET THE INTENTION OF THE WORK SHOWN ON THE OTHER DRAWINGS. CONTRACTOR HAS THE RESPONSIBILITY TO REFER TO ALL DRAWINGS, SITE INFORMATION, AND VERIFY ALL CONDITIONS IN FIELD BEFORE COMMENCING WORK. COMMENCING WORK MEANS ACCEPTANCE OF ALL CONDITIONS.

L. REFER TO ROOM FINISH SCHEDULE FOR ALL FINISHES, SHEET A3.1.

M. ALL EXISTING SURFACES WITH A PAINT FINISH IN WORK AREA OF THIS CONTRACT SHALL RECEIVE NEW PAINT IN ACCORDANCE WITH SS 099000. PREP AND PRIME SURFACE AS REQUIRED.

N. PATCH AND REPAIR TO "LIKE NEW" CONDITION ALL EXISTING SURFACES CUT OR ROUTED FOR RECESSED INSTALLATION OF NEW WORK INCLUDING MECHANICAL AND / OR ELECTRICAL SYSTEM. COORDINATE WITH THE MECHANICAL AND ELECTRICAL DRAWINGS.

O. NO NEW ROOF WORK IS INCLUDED IN THIS PROJECT. EXISTING ROOF PENETRATIONS/CURBS IN AREA 'C' ARE TO BE REUSED BY NEW PLUMBING AND MECHANICAL WORK, OR SEALED WITH NEW INSULATED CAPS. REFER TO MEP DRAWINGS.

NEW WORK - TAG NOTES

1. NEW STEEL HOLLOW METAL FRAME IN EXISTING MASONRY OPENING. PAINT.

2. NEW FIRE EXTINGUISHER AND SEMI-RECESSED CABINET. SS 104400.

3. PROVIDE 4" SLOPED MARBLE THRESHOLD AT TRANSITION BETWEEN PORCELAIN FLOOR TILE IN RESTROOM AND VCT IN CORRIDOR. SS 093000.

4. 2X2 PORCELAIN WALL TILE MOSAIC (VERTICAL STRIPED PATTERN) ON WATER COOLER WALL. PROVIDE BULLNOSE ON ALL EXPOSED EDGES. REFER TO ELEVATION E/A4.1. SS 093000.

5. NEW MARKERBOARDS AND TACKBOARDS. SS 101100.
   - 4TB = 4' TACKBOARD
   - 8TB = 8' TACKBOARD
   - 8MB = 8' MARKERBOARD

6. NEW ROOF SUPPORT STEEL STRUCTURE: 8X8 T.S. COLUMNS AND W21 STEEL BEAM w/ C7 CAP ACROSS CLASSROOM AND W8 STEEL BEAM ACROSS CORRIDOR. REFER TO STRUCTURAL DWGS. PAINT EXPOSED STEEL.

7. NEW MASONRY INFILL OF EXISTING OPENING IN EXISTING VENEER WALL. SS 042000.
   - 8" CMU (TOOTH INTO ADJACENT)
   - BITUMINUOUS WATERPROOFING, SS 071200
   - 1" BOARD INSULATION, SS 072113
   - BRICK VENEER (TOOTH INTO ADJACENT)

8. NEW STOREFRONT UNIT WITH INTEGRAL OPERABLE VENT UNIT IN NEW MASONRY OPENING. REFER TO WINDOW SCHEDULE AND ELEVATION ON SHEET A3.1. SS 084113. REFER TO STRUCTURAL DWGS FOR NEW LINTEL AND CONCRETE SILL DETAIL. TOOTH-IN NEW MASONRY AT JAMBS.

9. INFILL EXISTING MASONRY OPENINGS IN WALL WHERE EXHAUST FANS WERE PREVIOUSLY REMOVED. SS 042000.
   - 8" CMU (TOOTH INTO ADJACENT)
   - BITUMINUOUS WATERPROOFING, SS 071200
   - 1" BOARD INSULATION, SS 072113
   - BRICK VENEER (TOOTH INTO ADJACENT)

10. EXISTING HOLLOW METAL FRAME AND WOOD (INTERIOR) OR STEEL (EXTERIOR) DOOR TO REMAIN IN PLACE. RE-PAINT.

11. NEW CONCRETE SLAB SUBFLOOR PATCH IN THIS AREA WHERE NEW SANITARY SEWER TIES INTO EXISTING. PROVIDE NEW VCT FLOORING AFTER SLAB CURES, PROVIDING FULL 12X12 PIECES OF TILE FIT INTO EXISTING PATTERN, FULL WIDTH OF CORRIDOR. REVIEW LAYOUT WITH ARCHITECT.

SYMBOLS LEGEND

EXISTING STACK BOND MASONRY WALL ASSEMBLY TO REMAIN. PATCH TO MATCH ABANDONED HOLES &/OR OPENINGS. TOOTH IN NEW WORK TO EXISTING. SS 04 20 00. PAINT. SS 09 90 00.

NEW CMU WALL, THICKNESS AS DIMENSIONED. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS. SS 04 20 00. EXTEND TO UNDERSIDE OF ROOF DECK ABOVE. PROVIDE 4" METAL FRAMING & 5/8" GYPSUM BOARD (ONE SIDE) & 3.5" ACOUSTIC BATT INSULATION AT TOP OF WALL WHERE GAPS/OPENINGS OCCUR FOR SOLID ACOUSTICAL SEPARATION OF SPACES.

NEW INTERIOR 4" METAL FRAMING PARTITION WALL. 20 GAGE STUDS @ 16⅛ OC W/ 5/8⅛ GYPSUM WALLBOARD EA. SIDE & 3.5⅛ ACOUSTIC BATT INSULATION. EXTEND STUDS TO UNDERSIDE OF ROOF DECK ABOVE. SS 09 21 16. PAINT. SS 09 90 00.

1 / A1.1 — ENLARGED PLAN / DETAIL IDENTIFICATION

1 — ELEVATION DESIGNATION

W-1 — WINDOW TYPE IN NEW OR EXISTING MASONRY OPENING. REFER TO WINDOW SCHEDULE ON DRAWING A2.0

— DOOR OPENING DESIGNATION. REFER TO SCHEDULE ON DRAWING A2.0

1 — TAG NOTE, REFER TO LEGENDS ON SHEET WHERE NOTE IS REFERENCED.

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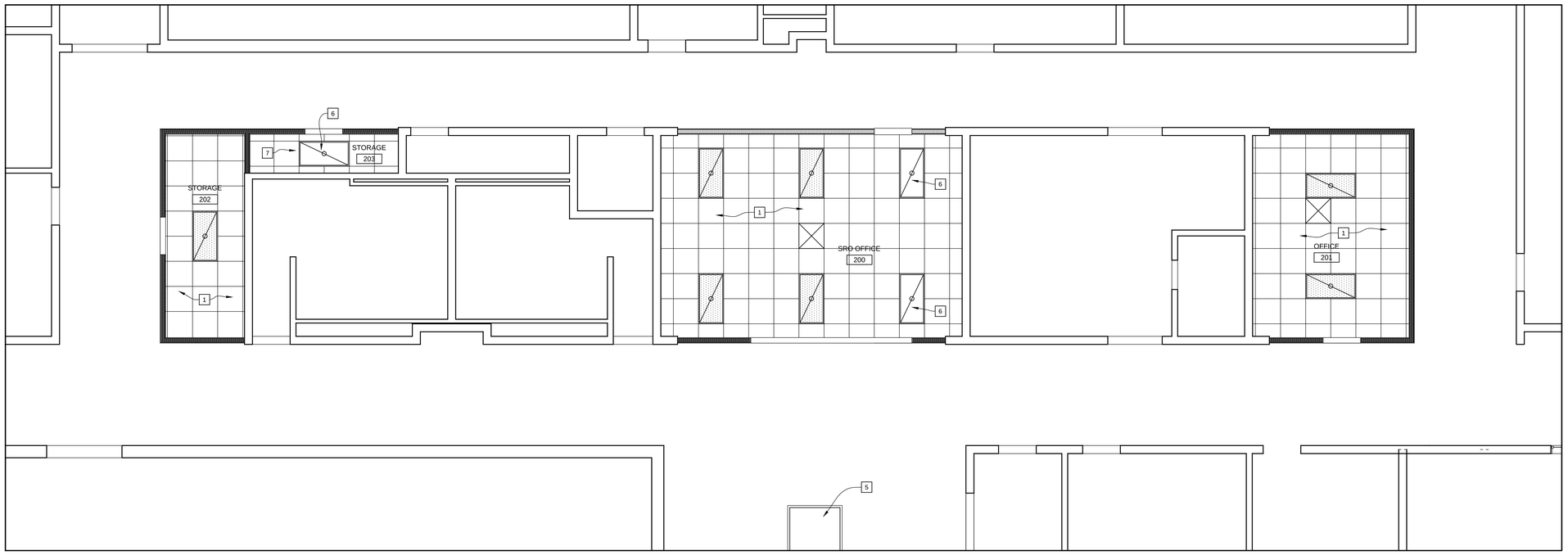
ENLARGED FLOOR PLAN - AREA 'C'

BREATHITT COUNTY PUBLIC SCHOOLS
SEBASTIAN ELEMENTARY SCHOOL - PARTIAL RENOVATION
244 L.B.J. Rd. JACKSON, KY 41339

Proj. #: 1901
Date: MAY 28, 2019
Drawn: MFI
Checked: SO
Revised:

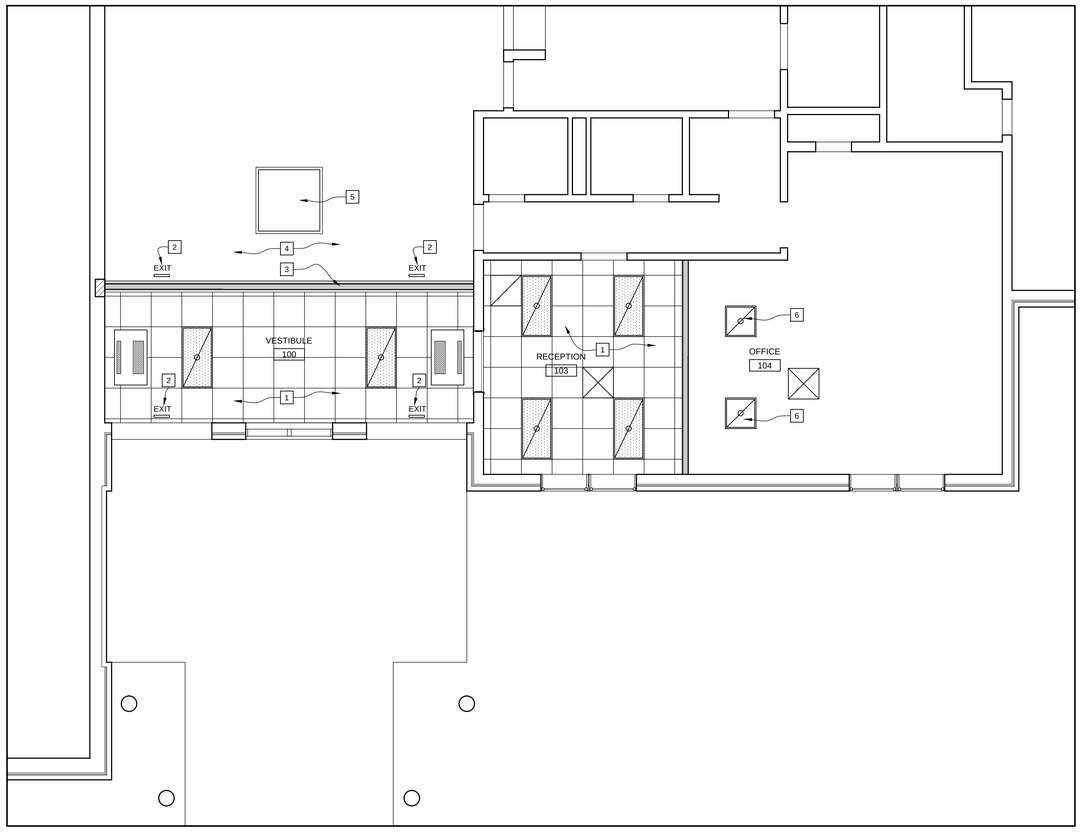
A1.2



B
A2.1

AREA 'B' - REFLECTED CLG. PLAN

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



A
A2.1

AREA 'A' - REFLECTED CLG. PLAN

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

GENERAL NOTES: NEW WORK

A. **DO NOT SCALE DRAWINGS. DRAWINGS VARY IN SCALE AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONFIRM.** WRITTEN DIMENSIONS ARE TO BE VERIFIED IN THE FIELD BY GENERAL CONTRACTOR WITH ARCHITECT AFTER DEMOLITION AND PRIOR TO ANY WORK ON NEW PARTITIONS. ARCHITECT IS TO BE NOTIFIED OF ANY FIELD MEASUREMENT DISCREPANCIES PRIOR TO BEGINNING WORK IN THAT AREA.

B. IT IS THE INTENT OF THE DRAWINGS TO IDENTIFY ALL LINTEL REQUIREMENTS ON THE DRAWINGS, HOWEVER IT IS THE CONTACTOR'S RESPONSIBILITY TO PROVIDE ALL LINTELS NECESSARY TO COMPLETE THE CONSTRUCTION IF THE DRAWINGS DO NOT IDENTIFY THE TYPE OF LINTEL TO BE USED AT A LOCATION WHERE ONE IS REQUIRED. REFER TO THE LINTEL SCHEDULE PROVIDED ON THE STRUCTURAL DRAWINGS.

C. ALL NEW AND EXISTING WALLS SHALL EXTEND TO THE UNDERSIDE OF THE ROOF DECK UNLESS OTHERWISE NOTED. STUD WALLS SHALL BE FULLY INSULATED WITH ACOUSTIC BATTS. ALL PENETRATIONS SHALL BE SEALED.

D. ALL DIMENSIONS ARE REFERENCED FROM FINISH FACE OF MASONRY (EXISTING OR NEW) OR FACE OF METAL FRAMING UNLESS OTHERWISE INDICATED.

E. DURING RENOVATION, COVER AND PROTECT ANY EXISTING MATERIALS WHICH ARE TO REMAIN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PATCH AND REPAIR ANY EXISTING MATERIAL DAMAGED DURING THE WORK OF THIS CONTRACT.

F. REFER TO STRUCTURAL, MECHANICAL, PLUMBING & ELECTRICAL DRAWINGS FOR ADDITIONAL WORK.

G. THE ADJACENT BUILDING AREAS WILL NOT BE OCCUPIED DURING THE COURSE OF THE WORK OF THIS CONTRACT. ADJACENT AREAS ARE OFF LIMITS TO CONSTRUCTION PERSONNEL.

H. REFER TO REFLECTED CEILING PLANS FOR CEILING CONDITIONS.

I. WHERE EXISTING PARTITIONS ARE REMOVED, ADJOINING WALL AND FLOOR SURFACES ARE TO BE REPAIRED TO PROVIDE A CONTINUOUS SMOOTH FINISHED SURFACE. MASONRY IS TO BE TOOTHED INTO ADJACENT UNLESS OTHERWISE NOTED.

J. REUSE OF SALVAGED BRICK: WHERE EXISTING OPENINGS ARE TO BE INFILLED OR NEW OPENING ARE TO BE CUT OUT IN EXISTING EXTERIOR WALLS, USE SALVAGED BRICK TO MATCH ADJACENT BRICK IN COLOR AND BOND PATTERN. MATCH ADJACENT MORTAR COLOR. TOOTH-IN/OUT ALL MASONRY.

K. CONSTRUCTION SHALL COVER ALL WORK AS SHOWN ON THE DRAWING, AND IS TO INCLUDE ANY WORK REQUIRED TO MEET THE INTENTION OF THE WORK SHOWN ON THE OTHER DRAWINGS. CONTRACTOR HAS THE RESPONSIBILITY TO REFER TO ALL DRAWINGS, SITE INFORMATION, AND VERIFY ALL CONDITIONS IN FIELD BEFORE COMMENCING WORK. COMMENCING WORK MEANS ACCEPTANCE OF ALL CONDITIONS.

L. REFER TO ROOM FINISH SCHEDULE FOR ALL FINISHES, SHEET A3.1.

M. ALL EXISTING SURFACES WITH A PAINT FINISH IN WORK AREA OF THIS CONTRACT SHALL RECEIVE NEW PAINT IN ACCORDANCE WITH SS 099000. PREP AND PRIME SURFACE AS REQUIRED.

N. PATCH AND REPAIR TO "LIKE NEW" CONDITION ALL EXISTING SURFACES CUT OR ROUTED FOR RECESSED INSTALLATION OF NEW WORK INCLUDING MECHANICAL AND / OR ELECTRICAL SYSTEM. COORDINATE WITH THE MECHANICAL AND ELECTRICAL DRAWINGS.

NEW WORK - TAG NOTES

1. NEW ACOUSTICAL CEILING TILE SYSTEM WITH REINSTALLED EXISTING LIGHT FIXTURES. REFER TO FP & MEP DRAWINGS FOR ADDITIONAL INFORMATION. SS 095123.
2. NEW CEILING MOUNTED EXIT LIGHTS. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
3. NEW 4" METAL FRAMING/GYP. BD. PARTITION WALL ABOVE NEW 4X8 T.S. BEAM. EXTEND FROM TOP OF BEAM TO ROOF STRUCTURE ABOVE. PAINT. SS 092116.
4. EXISTING ACOUSTICAL CEILING TILE SYSTEM. PATCH WITH SALVAGED MATERIAL AFTER INSTALLATION OF ADJACENT NEW WORK.
5. EXISTING SKYLIGHT. DO NOT DISTURB.
6. NEW LAY IN LIGHT FIXTURE IN EXISTING ACOUSTICAL CEILING SYSTEM. REFER TO ELECTRICAL DRAWINGS.
7. NEW ACOUSTICAL CEILING TILE SYSTEM. SS 095123.

SYMBOLS LEGEND

- NEW 2X2 SUSPENDED ACOUSTICAL CEILING TILE SYSTEM (ACT). SS 09 51 23.
- NEW 2X4 LAY-IN LIGHT FIXTURE. REFER TO ELECTRICAL DRAWINGS.
- NEW 2X2 LAY-IN LIGHT FIXTURE. REFER TO ELECTRICAL DRAWINGS.
- EXISTING 2X4 LAY-IN LIGHT FIXTURE IN NEW LOCATION. REFER TO ELECTRICAL DRAWINGS.
- EXISTING MECHANICAL UNIT REINSTALLED IN NEW ACT CEILING SYSTEM.
- EXIT — NEW CEILING MTD. EXIT SIGNAGE. REFER TO ELECTRICAL DRAWINGS.
- NEW HVAC SUPPLY LOUVER. REFER TO MECH. DRAWINGS.
- NEW HVAC RETURN LOUVER. REFER TO MECH. DRAWINGS.

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REFLECTED CEILING PLANS - AREAS 'A' & 'B'

BREATHITT COUNTY PUBLIC SCHOOLS
SEBASTIAN ELEMENTARY SCHOOL - PARTIAL RENOVATION
244 L.B.J. Rd. JACKSON, KY 41339

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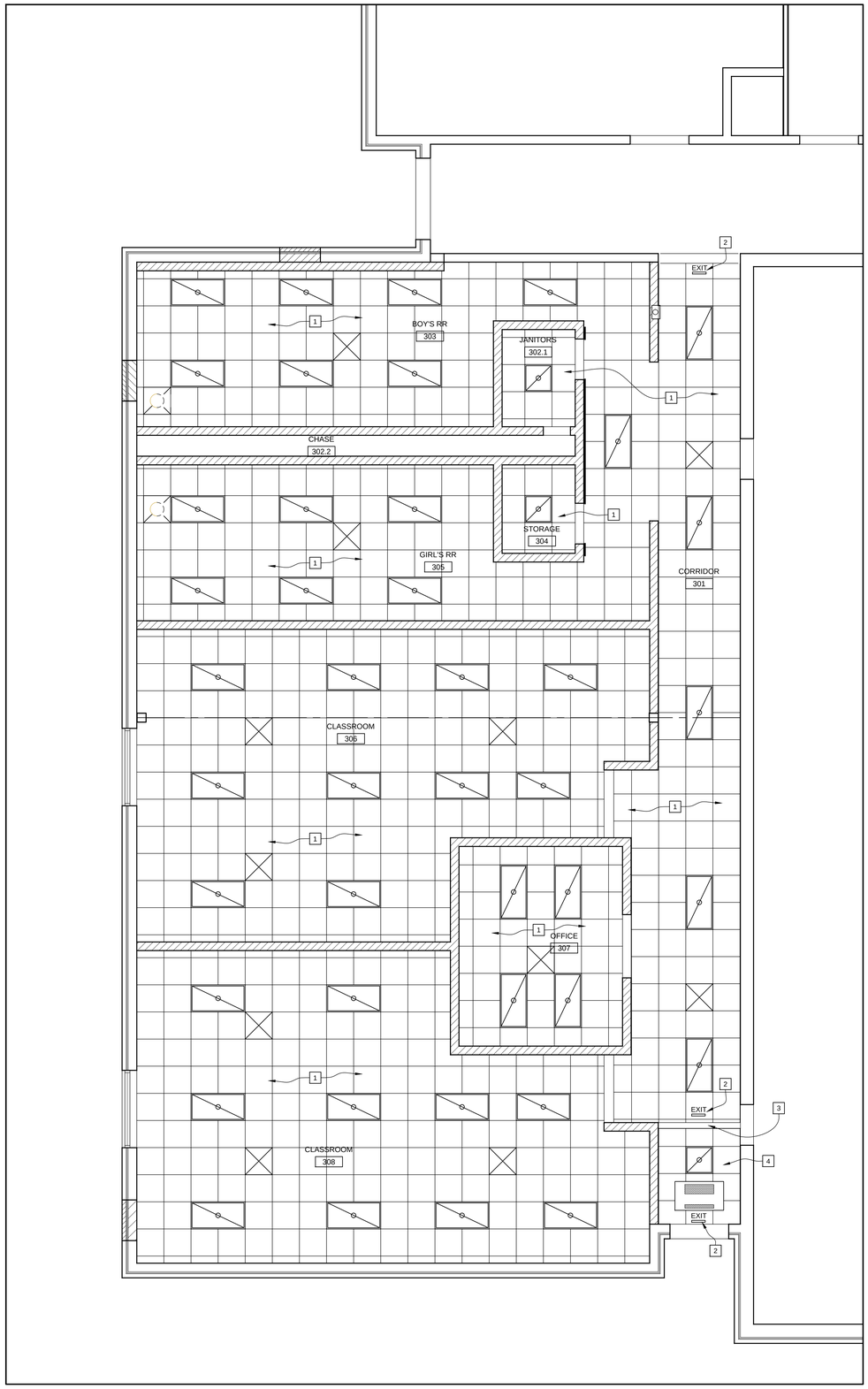

A
A2.2
AREA 'C' - REFLECTED CLG. PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES: NEW WORK

A. **DO NOT SCALE DRAWINGS. DRAWINGS VARY IN SCALE AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONFIRM.** WRITTEN DIMENSIONS ARE TO BE VERIFIED IN THE FIELD BY GENERAL CONTRACTOR WITH ARCHITECT AFTER DEMOLITION AND PRIOR TO ANY WORK ON NEW PARTITIONS. ARCHITECT IS TO BE NOTIFIED OF ANY FIELD MEASUREMENT DISCREPANCIES PRIOR TO BEGINNING WORK IN THAT AREA.

B. IT IS THE INTENT OF THE DRAWINGS TO IDENTIFY ALL LINTEL REQUIREMENTS ON THE DRAWINGS, HOWEVER IT IS THE CONTACTOR'S RESPONSIBILITY TO PROVIDE ALL LINTELS NECESSARY TO COMPLETE THE CONSTRUCTION IF THE DRAWINGS DO NOT IDENTIFY THE TYPE OF LINTEL TO BE USED AT A LOCATION WHERE ONE IS REQUIRED. REFER TO THE LINTEL SCHEDULE PROVIDED ON THE STRUCTURAL DRAWINGS.

C. ALL NEW AND EXISTING WALLS SHALL EXTEND TO THE UNDERSIDE OF THE ROOF DECK UNLESS OTHERWISE NOTED. STUD WALLS SHALL BE FULLY INSULATED WITH ACOUSTIC BATTS. ALL PENETRATIONS SHALL BE SEALED.

D. ALL DIMENSIONS ARE REFERENCED FROM FINISH FACE OF MASONRY (EXISTING OR NEW) OR FACE OF METAL FRAMING UNLESS OTHERWISE INDICATED.

E. DURING RENOVATION, COVER AND PROTECT ANY EXISTING MATERIALS WHICH ARE TO REMAIN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PATCH AND REPAIR ANY EXISTING MATERIAL DAMAGED DURING THE WORK OF THIS CONTRACT.

F. REFER TO STRUCTURAL, MECHANICAL, PLUMBING & ELECTRICAL DRAWINGS FOR ADDITIONAL WORK.

G. THE ADJACENT BUILDING AREAS WILL NOT BE OCCUPIED DURING THE COURSE OF THE WORK OF THIS CONTRACT. ADJACENT AREAS ARE OFF LIMITS TO CONSTRUCTION PERSONNEL.

H. REFER TO REFLECTED CEILING PLANS FOR CEILING CONDITIONS.

I. WHERE EXISTING PARTITIONS ARE REMOVED, ADJOINING WALL AND FLOOR SURFACES ARE TO BE REPAIRED TO PROVIDE A CONTINUOUS SMOOTH FINISHED SURFACE. MASONRY IS TO BE TOOTHED INTO ADJACENT UNLESS OTHERWISE NOTED.

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L. REFER TO ROOM FINISH SCHEDULE FOR ALL FINISHES, SHEET A3.1.

M. ALL EXISTING SURFACES WITH A PAINT FINISH IN WORK AREA OF THIS CONTRACT SHALL RECEIVE NEW PAINT IN ACCORDANCE WITH SS 099000. PREP AND PRIME SURFACE AS REQUIRED.

N. PATCH AND REPAIR TO "LIKE NEW" CONDITION ALL EXISTING SURFACES CUT OR ROUTED FOR RECESSED INSTALLATION OF NEW WORK INCLUDING MECHANICAL AND / OR ELECTRICAL SYSTEM. COORDINATE WITH THE MECHANICAL AND ELECTRICAL DRAWINGS.

NEW WORK - TAG NOTES

1. NEW ACOUSTICAL CEILING TILE SYSTEM WITH NEW LIGHT FIXTURES. REFER TO FP & MEP DRAWINGS FOR ADDITIONAL INFORMATION. SS 095123.
2. NEW CEILING MOUNTED EXIT LIGHTS. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
3. NEW 4" METAL FRAMED/GYP. BD. SOFFIT. BOTTOM AT 8'-8" FINISHED. PAINT. SS 092116.
4. 9'-6" CEILING HEIGHT IN THIS LOCATION.

SYMBOLS LEGEND

- NEW 2X2 SUSPENDED ACOUSTICAL CEILING TILE SYSTEM (ACT). SS 09 51 23.
- NEW 2X4 LAY-IN LIGHT FIXTURE. REFER TO ELECTRICAL DRAWINGS.
- NEW 2X2 LAY-IN LIGHT FIXTURE. REFER TO ELECTRICAL DRAWINGS.
- EXISTING 2X4 LAY-IN LIGHT FIXTURE IN NEW LOCATION. REFER TO ELECTRICAL DRAWINGS.
- EXISTING MECHANICAL UNIT REINSTALLED IN NEW ACT CEILING SYSTEM.
- EXIT — NEW CEILING MTD. EXIT SIGNAGE. REFER TO ELECTRICAL DRAWINGS.
- NEW HVAC SUPPLY LOUVER. REFER TO MECH. DRAWINGS.
- NEW HVAC RETURN LOUVER. REFER TO MECH. DRAWINGS.

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REFLECTED CEILING PLANS - AREA 'C'

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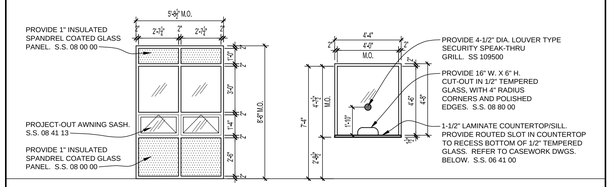
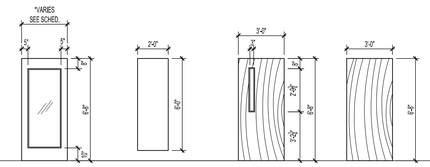
WINDOW ELEVATIONS



'W1'
S.S. 08 41 13
PREFINISHED ALUMINUM STOREFRONT SYSTEM THERMALLY BROKEN W/ THERMALLY BROKEN PROJECT-OUT WINDOW UNIT

'W2'
S.S. 08 41 13
HOLLOW METAL FRAME PAINT. W/ 1/2" TEMPERED GLASS ON 1-1/2" LAMINATE COUNTERTOP (S.S. 06 41 00) GROUT FILL FRAME

DOOR TYPE ELEVATIONS



A1 NEW HOLLOW METAL FLUSH DOOR. GALVANIZE & PAINT. S.S. 08 13 14

A2 NEW HOLLOW METAL FLUSH DOOR. GALVANIZE & PAINT. S.S. 08 13 14

B1 NEW SOLID CORE FLUSH WOOD DOOR. PAINT. S.S. 08 14 16

B2 NEW SOLID CORE FLUSH WOOD DOOR. PAINT. S.S. 08 14 16

DOOR & FRAME SCHEDULE

MATERIALS
WD = WOOD
HM = HOLLOW METAL

FINISHES
ST = STAIN
PT = PAINT
GA = GALVANIZED/ PAINTED

Door						Frame						Details		
No.	Room Name	Size (w. x h.)	Type	Matl.	Finish	Type	Matl.	Finish	Jamb Depth	Glazing	Rating	Jamb	Head	Hdwe Set 087100	Remarks
100.1	100 VESTIBULE	(2) 3'-1" x 7'-2"	A1	HM	GA	A1	HM	GA	8-5/8"	1" INSUL.				01A	
100.2	100 VESTIBULE	(2) 3'-1" x 7'-2"	A1	HM	GA	A1	HM	GA	8-5/8"	1" INSUL.				02	
101.1	100 VESTIBULE	(2) 3'-0" x 7'-2"	A1	HM	GA	A2	HM	PT	8-5/8"	1/4" TEMPERED		J2	H2	01B	
101.2	100 VESTIBULE	(2) 3'-0" x 7'-2"	A1	HM	GA					1/4" TEMPERED				03	
200	200 SRO OFFICE	3'-0" x 6'-8"	B2	WD	PT	A4	HM	PT	6-1/4"	1/4" TEMPERED		J3	H3	04	
201	200 SRO OFFICE	3'-0" x 6'-8"	B1	WD	PT	A3	HM	PT	6-1/4"	1/4" TEMPERED		J3	H3	04	
202	201 OFFICE	3'-0" x 6'-8"	B1	WD	PT	A3	HM	PT	6-1/4"	1/4" TEMPERED		J3	H3	04	
203	202 STORAGE	3'-0" x 6'-8"	B2	WD	PT	A3	HM	PT	6-1/4"			J3	H3	05	
204	203 STORAGE	3'-0" x 6'-8"	B2	WD	PT	A3	HM	PT	6-1/4"			J3	H3	05	
300	301 CORRIDOR	NO DOOR				A7	HM	PT	8-5/8"						
300.1	302.1 JANITORS	3'-0" x 6'-8"	B2	WD	PT	A3	HM	GA	8-5/8"			J1.1	H1	05	
300.2	302.2 PLUMBING CHASE	2'-0" x 6'-0"	A2	HM	GA	A5	HM	GA	8-5/8"			J1.1	H1	06	
301	304 STORAGE	3'-0" x 6'-8"	B2	WD	PT	A3	HM	GA	8-5/8"			J1.1	H1	05	
302	306 CLASSROOM	3'-0" x 6'-8"	B2	WD	PT	A6	HM	PT	8-5/8"	1/4" TEMPERED		J1.2	H1	07	
303	307 OFFICE	3'-0" x 6'-8"	B2	WD	PT	A6	HM	PT	8-5/8"	1/4" TEMPERED		J1.1	H1	08	
304	308 CLASSROOM	3'-0" x 6'-8"	B2	WD	PT	A6	HM	PT	8-5/8"	1/4" TEMPERED		J1.2	H1	07	

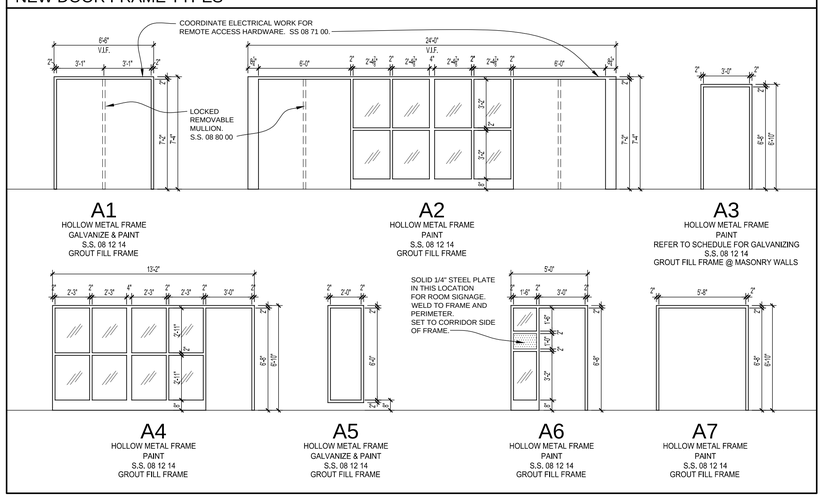
WINDOW SCHEDULE

MATERIALS
ALUM. = ALUMINUM
HM = HOLLOW METAL

FINISHES
FACTORY = PREFINISHED
PT = PAINT

NO.	TYPE	QTY.	DIMENSIONS Width x Height	GLAZING	FRAME DEPTH	FRAME MTL	FRAME FINISH	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	REMARKS
W-1	PROJECT - OUT	2	5'-8 1/2" X 8'-8" M.O.	1" INSULATED	3-3/4"	ALUM.	FACTORY	H4		S4	NEW OPENING
W-2	FIXED TRANSITION	1	4'-0" X 3-7 1/2" M.O.	1/2" TEMPERED	8-3/4"	HM	PT	H1	J1.1	C/A3.1	NEW OPENING

NEW DOOR FRAME TYPES



A1 HOLLOW METAL FRAME GALVANIZE & PAINT S.S. 08 12 14 GROUT FILL FRAME

A2 HOLLOW METAL FRAME PAINT S.S. 08 12 14 GROUT FILL FRAME

A3 HOLLOW METAL FRAME PAINT REFER TO SCHEDULE FOR GALVANIZING S.S. 08 12 14 GROUT FILL FRAME @ MASONRY WALLS

A4 HOLLOW METAL FRAME PAINT S.S. 08 12 14 GROUT FILL FRAME

A5 HOLLOW METAL FRAME GALVANIZE & PAINT S.S. 08 12 14 GROUT FILL FRAME

A6 HOLLOW METAL FRAME PAINT S.S. 08 12 14 GROUT FILL FRAME

A7 HOLLOW METAL FRAME PAINT S.S. 08 12 14 GROUT FILL FRAME

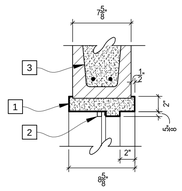
DOOR DETAIL TAG NOTES
SHEET A3.1

1. NEW 16 GA. HOLLOW METAL FRAME, PAINT. SS 08 12 13. PROVIDE ANCHORS TO FIT INSTALLATION PER MFR., GROUT SOLID AT MASONRY INSTALLATIONS. SEAL PERIMETER, EACH FACE. SS 07 90 00. PAINT.
2. GLAZING STOPS AT SECURED SIDE OF DOOR WHERE OCCURRING.
3. NEW 8" CMU BOND BEAM & WALL. GROUT FILL AND REINFORCE AT HEAD/JAMB ANCHORAGE LOCATION REFER TO STRUCTURAL DWGS.
4. NEW 4" METAL STUD FRAMING, 16" O.C., WITH 5/8" GYP. BD. EACH SIDE. PAINT. SS 09 21 16.
5. SEALANT. SS 7 90 00.
6. NEW 4"X8" T.S. BEAM WITH STEEL SUPPORT BRACING AT TOP. REFER TO STRUCTURAL DWGS. PAINT.
7. EXISTING CMU WALL, REPAINT.
8. CONT. ACOUSTICAL BATT INSULATION. SS 07 21 00.
9. NEW CMU BOND BEAM LINTEL WITH STEEL SHELF BRICK ANGLE FOR NEW MASONRY OPENING IN EXISTING TYPICAL EXTERIOR MASONRY WALL. RE-USE SALVAGED FACE BRICK. TOOTH-IN NEW MASONRY. PAINT CMU AND STEEL. PROVIDE VENEER WEEPS, 24" O.C. SS 04 20 00. REFER TO STRUCTURAL DWGS.
10. NEW CONTINUOUS COPPER THRU-WALL FLASHING AT HEAD OF NEW MASONRY OPENINGS.
11. NEW P.T. WD. BLOCKING. SS 06 10 00.
12. NEW ½" X 3" CLOSED CELL COMPRESSIBLE FOAM FILL MATERIAL AROUND PERIMETER OF OPENING, FULLY ADHERED, PRIOR TO INSTALLATION. SHIM AS REQUIRED, SEAL PERIMETER EACH FACE.
13. NEW EXTRUDED ALUMINUM STOREFRONT FRAMING. SS 08 41 13.
14. PROVIDE CONTINUOUS ALUMINUM SILL FLASHING BY STOREFRONT MFR. CAULK WATERTIGHT. SS 08 41 13.
15. NEW 4" VINYL WALL BASE. SS 09 65 00.
16. NEW VCT FLOORING. SS 09 65 00.
17. NEW 4" CONCRETE SLAB WITH THERMALLY BROKEN SILL AT NEW MASONRY OPENING. REFER TO STRUCTURAL DWGS.
18. NEW 2" RIGID INSULATION. SS 07 21 13.
19. SLOPE EXTERIOR GRADE FOR POSITIVE DRAINAGE AWAY FROM BLDG.
20. EXISTING BLDG. FOUNDATION WALL.

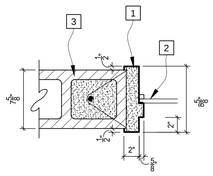
ROOM FINISH SCHEDULE

REMARKS
1. New VCT flooring and 4" Vinyl Base on new concrete slab and new and/or existing CMU walls. Provide Self-Leveling Underlayment Compound in preparation for new.
2. Carefully remove existing VCT flooring in this area and provide Self-Leveling Underlayment Compound in preparation for installation of new VCT flooring. Do Not Disturb adjacent VCT to remain.
3. Remove all existing vinyl base in this area and provide new 4" Vinyl Base.
4. Provide new 4" Vinyl Base on new wall in this area. Color to match existing.
5. Existing ACT ceiling finish in adjacent area is scheduled to remain. Patch/Repair ceiling system after installation of new wall construction, using salvaged material from demolition.
6. Provide 2x2 tile wall mosaic on water cooler wall between new Restrooms. Refer to Elevation E/A4.1.
7. Provide new soffit/wall above Doors 101.1 & 101.2, on new 4"x8" T.S. beam over frame. Extend top of beam to bottom of joists above. 4" metal framing with 5/8" Gyp. Bd. each side. Paint.

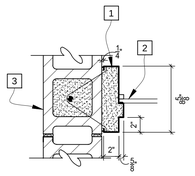
No.	Room Name	Floor: New Vinyl Composition Tile VCT (SS 09 65 00)	Floor: New Porcelain Tile 2" x 2" (SS 09 30 00)	Floor: New Concrete - Seal (09 90 00)	Floor: Existing Vinyl Composition Tile VCT	Base: New 4" H. Vinyl Base, (SS 09 65 00)	Base: New 6" H. Porcelain Tile 2" x 2" - (SS 09 30 00)	Base: Existing 4" Vinyl Base, Cleaning and Repainted for new Work.	Base: None	Walls: New CMU - Semi Gloss Latex Paint, (SS 04 20 00 & 09 90 00)	Walls: New CMU - Epoxy Paint, (SS 04 20 00 & 09 90 00)	Walls: New 4" Metal Studs w/ Gyp. Bd. Paint, (SS 09 21 16 & 09 90 00)	Walls: Existing CMU Walls w/ Chip Paint, (SS 09 90 00)	Walls: New Porcelain Tile 2" x 2" with Pattern (SS 09 30 00)	Walls: None	Ceiling: New 2x2 Acoustical Ceiling Tile (SS 09 51 23)	Ceiling: Existing 2x2 Acoustical Ceiling Tile. Patch/Repair area at new wall construction.	Ceiling: New 4" Metal Studs w/ 1/2" Gyp. Bd. Soffit - Low Gloss Paint, (SS 09 21 16 & 09 90 00)	Ceiling: None	Clg. Ht.	Remarks
100	VESTIBULE	●				●						●				●	●			9'-6"	Notes 2, 3, 5, 7
103	RECEPTION			●		●						●	●			●				9'-6"	Notes 3, 5
104	OFFICE			●		●		●				●	●				●			9'-6" Exist.	Notes 4,
200	SRO	●				●						●	●			●				8'-8"	Notes 2, 3, 5
201	OFFICE	●				●						●	●			●				8'-8"	Notes 2, 3, 5
202	STORAGE	●				●						●	●			●				8'-8"	Notes 2, 3, 5
203	STORAGE	●				●						●	●			●				8'-8"	Notes 2, 3, 5
301	CORRIDOR	●				●				●			●	●		●	●			8'-8"	Notes 1, 6
302.1	JANITORS	●				●				●			●			●				8'-8"	Notes 1
302.2	PLUMBING CHASE		●					●						●				●			
303	BOY'S RR		●				●				●		●			●				8'-8"	
304	STORAGE	●				●				●			●			●				8'-8"	Notes 1
305	GIR'S RR		●				●				●		●			●				8'-8"	
306	CLASSROOM	●				●				●						●				8'-8"	Notes 1
307	OFFICE	●				●				●						●				8'-8"	Notes 1
308	CLASSROOM	●				●				●						●				8'-8"	Notes 1



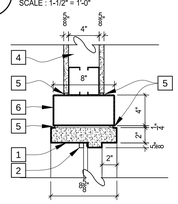
H1 HEAD DETAIL — CMU WALL WRAP
SCALE : 1-1/2" = 1'-0"



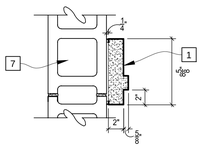
J1.1 JAMB DETAIL — CMU WALL WRAP
SCALE : 1-1/2" = 1'-0"



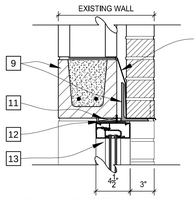
J1.2 JAMB DETAIL — CMU BUTT FRAME
SCALE : 1-1/2" = 1'-0"



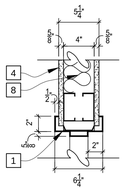
H2 HEAD DETAIL — CMU BUTT FRAME
SCALE : 1-1/2" = 1'-0"



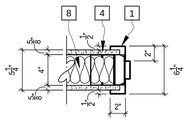
J2 JAMB DETAIL — CMU BUTT FRAME
SCALE : 1-1/2" = 1'-0"



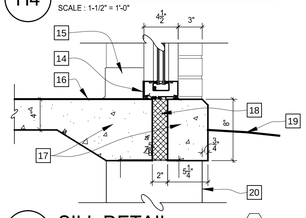
H4 HEAD DETAIL — W1
SCALE : 1-1/2" = 1'-0"



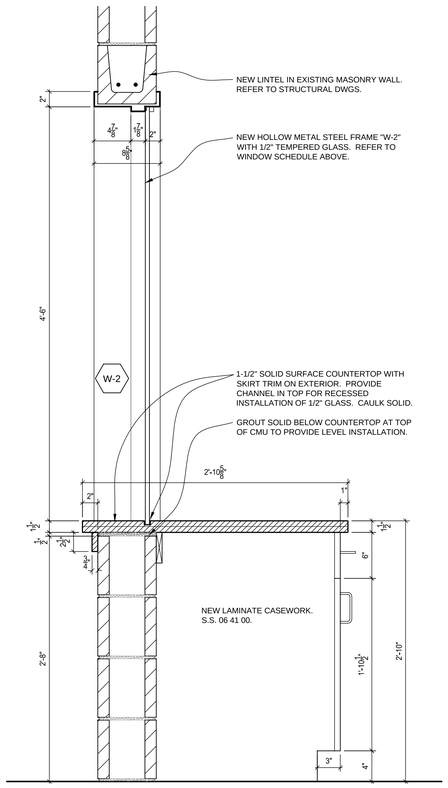
H3 HEAD DETAIL — MTL. STUD WRAP
SCALE : 1-1/2" = 1'-0"



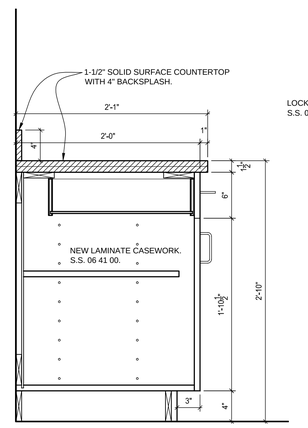
J3 JAMB DETAIL — MTL. STUD WRAP
SCALE : 1-1/2" = 1'-0"



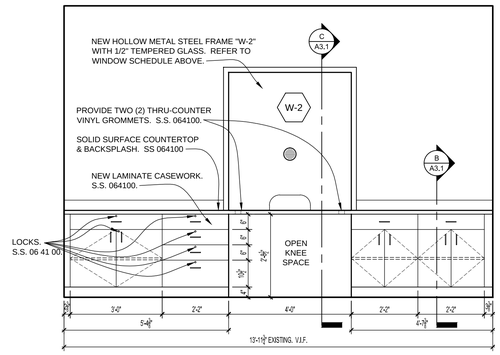
S4 SILL DETAIL — W1
SCALE : 1-1/2" = 1'-0"



C / A3.1 SECTION
SCALE: 1-1/2" = 1'-0"



B / A3.1 SECTION
SCALE: 1-1/2" = 1'-0"



A / A3.1 ELEVATION - RECEPTION 103
SCALE: 1/2" = 1'-0"

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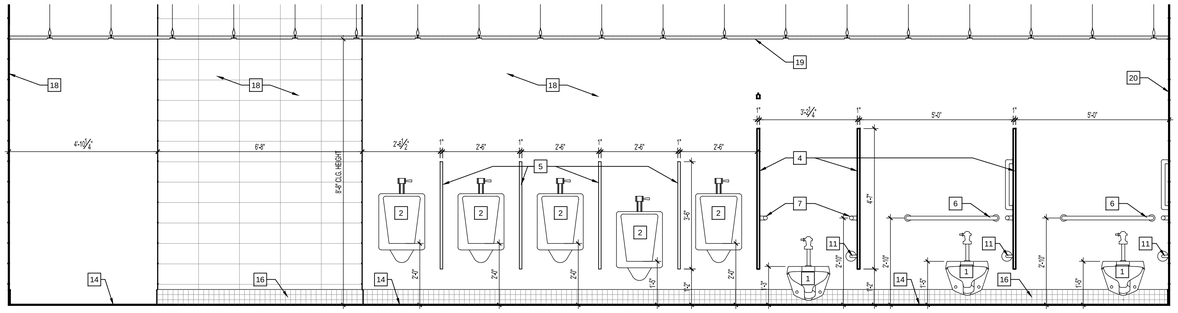
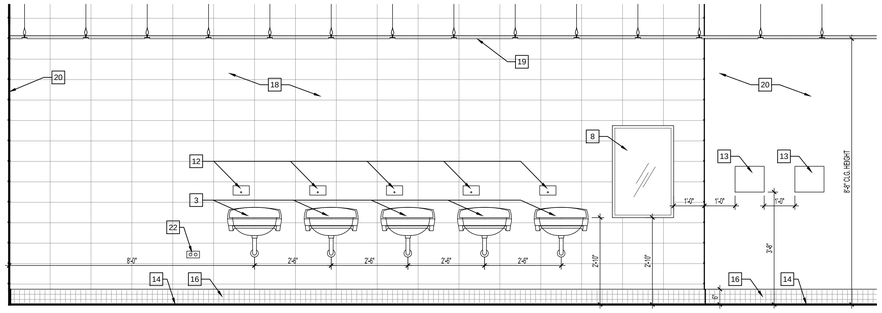
SCHEDULES: DOORS, WINDOWS & FINISHES
BREATHITT COUNTY PUBLIC SCHOOLS
SEBASTIAN ELEMENTARY SCHOOL - PARTIAL RENOVATION
244 L.B.J. Rd. JACKSON, KY 41339

Proj. #: 1901
Date: MAY 28, 2019
Drawn: MFI
Checked: SO
Revised:

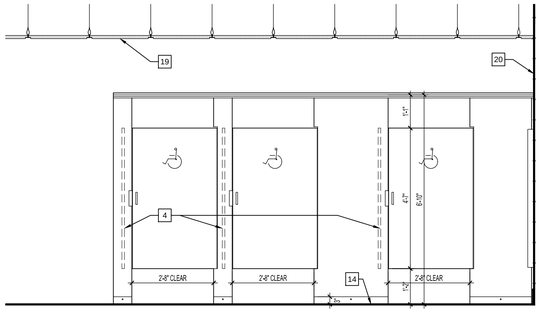
A3.1



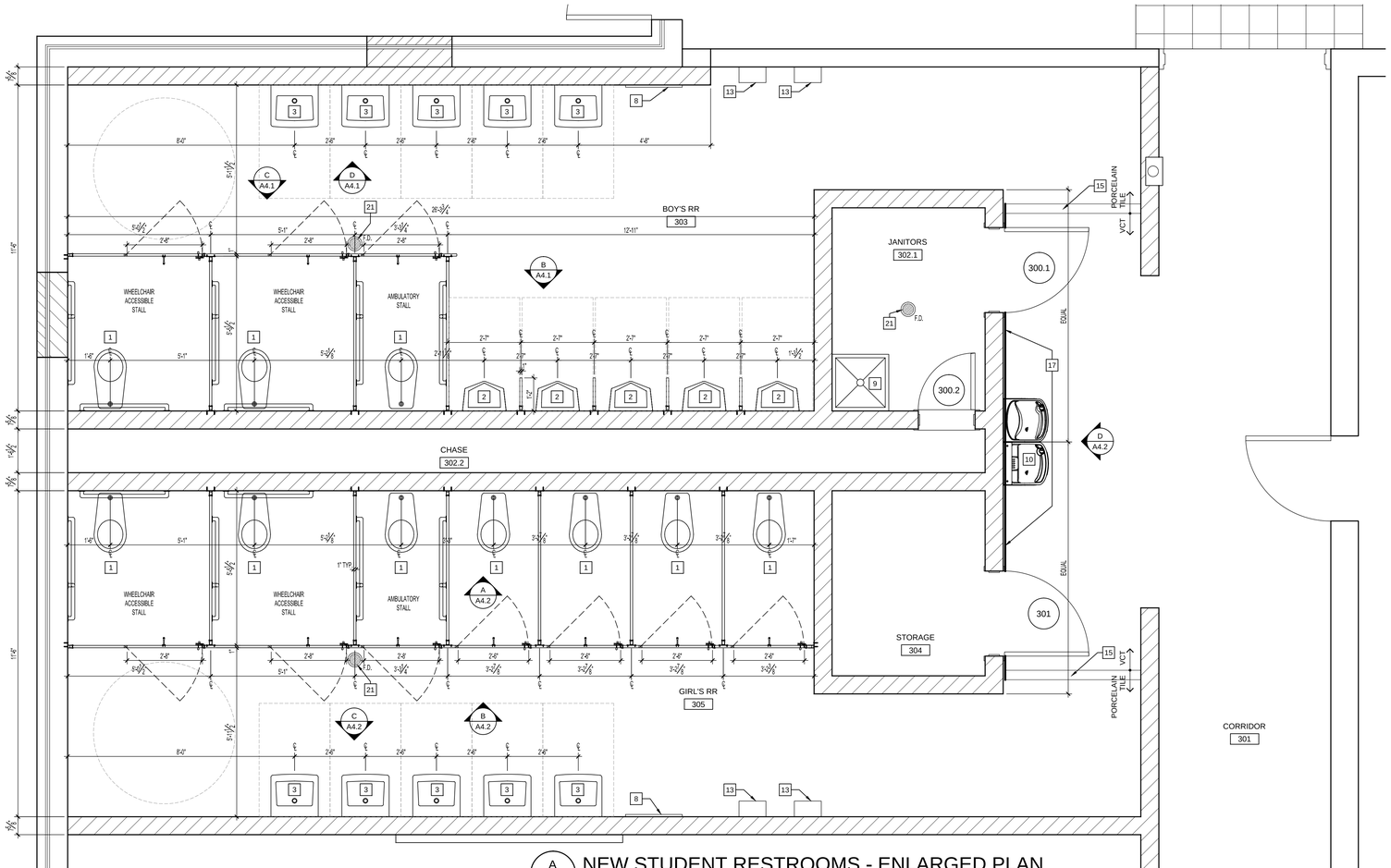
B A4.1 ELEVATION - BOY'S RESTROOM 303
SCALE: 1/2" = 1'-0"



D A4.1 ELEVATION - BOY'S RESTROOM 303
SCALE: 1/2" = 1'-0"



C A4.1 ELEVATION - BOY'S RESTROOM 303
SCALE: 1/2" = 1'-0"



A A4.1 NEW STUDENT RESTROOMS - ENLARGED PLAN
SCALE: 1/2" = 1'-0"

GENERAL RESTROOM NOTES:

A. G.C. TO COORDINATE ALL NEW PLUMBING WORK WITH ALL PLUMBING DOCUMENTATION INCLUDED WITHIN THESE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS. G.C. & P.C. REFER TO PLUMBING SHEETS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

B. LAVATORIES - MINIMUM CLEARANCE TO BOTTOM SIDE OF LAVATORY TO BE 27" PER A.D.A.

C. G.C. TO COORDINATE ALL RESTROOM FLOORING & BASE CONDITIONS WITH ARCHITECT PRIOR TO INSTALLATION.

D. RESTROOM ACCESSORIES: PAPER TOWEL DISPENSER, TOILET PAPER DISPENSER AND HAND SOAP DISPENSER ARE OWNER PROVIDED AND GC. INSTALLED. VERIFY LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.

RESTROOM TAG NOTES:

1. NEW WALL MOUNTED ADA ACCESSIBLE TOILET. REFER TO PLUMBING SCHEDULE, SHEET P5.1.
2. NEW WALL MOUNTED URINAL. REFER TO PLUMBING SCHEDULE, SHEET P5.1.
3. NEW WALL MOUNTED LAVATORY. REFER TO PLUMBING SCHEDULE, SHEET P5.1.
4. NEW FLOOR MOUNTED, OVERHEAD BRACED, TOILET PARTITION. SS 102113.
5. NEW WALL MOUNTED URINAL PARTITION. SS 102113.
6. NEW WALL/PARTITION MOUNTED ADA WHEELCHAIR ACCESSIBLE COMPARTMENT GRAB BARS. HORIZONTAL= 36"L AND 42"L; VERTICAL=18"L, SS 102800.
7. NEW PARTITION MOUNTED ADA AMBULATORY COMPARTMENT GRAB BARS. HORIZONTAL= (2) 42"L SS 102800.
8. NEW WALL MOUNTED MIRROR. SS 102800.
9. NEW FLOOR MOUNTED TERRAZZO MOP SINK. REFER TO PLUMBING SCHEDULE, SHEET P5.1.
10. NEW WALL MOUNTED ADA. COMPLIANT, BI-LEVEL WATER COOLER WITH BOTTLE FILLER. REFER TO PLUMBING SCHEDULE, SHEET P5.1.
11. TOILET PAPER DISPENSER MOUNTED AT 19" A.F.F. OWNER PROVIDED, GC INSTALLED.
12. WALL MOUNTED HAND SOAP DISPENSER. OWNER PROVIDED, GC INSTALLED.
13. WALL MOUNTED PAPER TOWEL DISPENSER. OWNER PROVIDED, GC INSTALLED.
14. 2X2 PORCELAIN TILE FLOOR FINISH. REFER TO SS 093000 FOR SPECIFICATIONS.
15. PROVIDE 4" SLOPED MARBLE THRESHOLD AT TRANSITION BETWEEN PORCELAIN TILE AND VCT IN THIS LOCATION. REFER TO SS 093000.
16. 6" HIGH, 2X2 PORCELAIN TILE BASE. PROVIDE BULLNOSE ON UPPER EXPOSED EDGE. REFER TO SS 093000 FOR SPECIFICATIONS.
17. 2X2 PORCELAIN WALL TILE MOSAIC (VERTICAL STRIPED PATTERN) ON WATER COOLER WALL. PROVIDE BULLNOSE ON ALL EXPOSED EDGES. REFER TO SS 093000 FOR SPECIFICATIONS AND TILE COLOR SCHEDULE.
18. NEW 8" X 8" X 16" CMU WALL, STACKED BOND. PAINT. SS 042000.
19. NEW SUSPENDED ACOUSTICAL CEILING SYSTEM. SS 095120.
20. EXISTING CMU WALL, STACKED BOND. PATCH & REPAINT.
21. NEW FLOOR DRAIN. REFER TO PLUMBING DRAWINGS.
22. NEW HOSE BIB. REFER TO PLUMBING DRAWINGS.

SYMBOLS LEGEND

EXISTING STACK BOND MASONRY WALL ASSEMBLY TO REMAIN. PATCH TO MATCH ABANDONED HOLES &/OR OPENINGS. TOOTH IN NEW WORK TO EXISTING. SS 04 20 00. PAINT. SS 09 90 00.

NEW CMU WALL, THICKNESS AS DIMENSIONED. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS. SS 04 20 00. EXTEND TO UNDERSIDE OF ROOF DECK ABOVE. PROVIDE 4" METAL FRAMING & 5/8" GYPSUM BOARD (ONE SIDE) & 3.5" ACOUSTIC BATT INSULATION AT TOP OF WALL WHERE GAPS/OPENINGS OCCUR FOR SOLID ACOUSTICAL SEPARATION OF SPACES.

NEW INTERIOR 4" METAL FRAMING PARTITION WALL. 20 GAGE STUDS @ 16i OC W/ 5/8i GYPSUM WALLBOARD EA. SIDE & 3.5i ACOUSTIC BATT INSULATION. EXTEND STUDS TO UNDERSIDE OF ROOF DECK ABOVE. SS 09 21 16. PAINT. SS 09 90 00.

1/A2.1 ENLARGED PLAN / DETAIL IDENTIFICATION

1 ELEVATION DESIGNATION

W-1 WINDOW TYPE IN NEW OR EXISTING MASONRY OPENING. REFER TO WINDOW SCHEDULE ON DRAWING A2.0

DOOR OPENING DESIGNATION. REFER TO SCHEDULE ON DRAWING A2.0

1 TAG NOTE, REFER TO LEGENDS ON SHEET WHERE NOTE IS REFERENCED.

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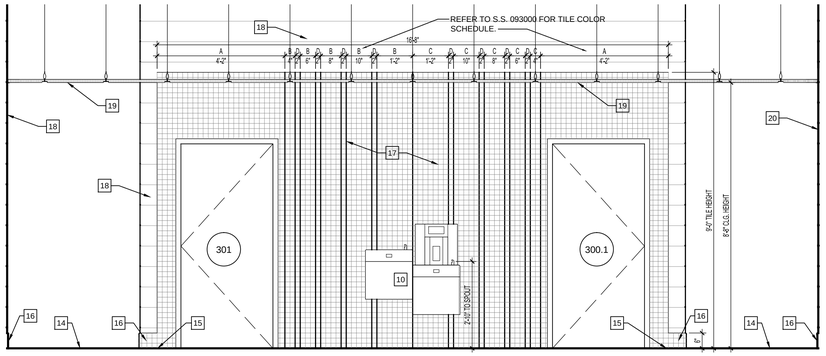
ENLARGED RESTROOM PLAN & ELEVATIONS
BREATHITT COUNTY PUBLIC SCHOOLS
SEBASTIAN ELEMENTARY SCHOOL - PARTIAL RENOVATION
244 L.B.J. Rd. JACKSON, KY 41339

Proj. #: 1901
Date: MAY 28, 2019
Drawn: MFI
Checked: SO
Revised:

A4.1



D
A4.2

ELEVATION - WATER COOLER WALL

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

SYMBOLS LEGEND

EXISTING STACK BOND MASONRY WALL ASSEMBLY TO REMAIN. PATCH TO MATCH ABANDONED HOLES &OR OPENINGS. TOOTH IN NEW WORK TO EXISTING. SS 04 20 00. PAINT. SS 09 90 00.

NEW CMU WALL, THICKNESS AS DIMENSIONED. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS. SS 04 20 00. EXTEND TO UNDERSIDE OF ROOF DECK ABOVE. PROVIDE 4" METAL FRAMING & 5/8" GYPSUM BOARD (ONE SIDE) & 3.5" ACOUSTIC BATT INSULATION AT TOP OF WALL WHERE GAPS/OPENINGS OCCUR FOR SOLID ACOUSTICAL SEPARATION OF SPACES.

NEW INTERIOR 4" METAL FRAMING PARTITION WALL. 20 GAGE STUDS @ 16⅛ OC W/ 5/8⅛ GYPSUM WALLBOARD EA. SIDE & 3.5⅛ ACOUSTIC BATT INSULATION. EXTEND STUDS TO UNDERSIDE OF ROOF DECK ABOVE. SS 09 21 16. PAINT. SS 09 90 00.

1 / A4.2 — ENLARGED PLAN / DETAIL IDENTIFICATION

ELEVATION DESIGNATION

W-1 — WINDOW TYPE IN NEW OR EXISTING MASONRY OPENING. REFER TO WINDOW SCHEDULE ON DRAWING A2.0

— DOOR OPENING DESIGNATION. REFER TO SCHEDULE ON DRAWING A2.0

1 — TAG NOTE, REFER TO LEGENDS ON SHEET WHERE NOTE IS REFERENCED.

GENERAL RESTROOM NOTES:

A. G.C. TO COORDINATE ALL NEW PLUMBING WORK WITH ALL PLUMBING DOCUMENTATION INCLUDED WITHIN THESE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS. G.C. & P.C. REFER TO PLUMBING SHEETS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

B. LAVATORIES - MINIMUM CLEARANCE TO BOTTOM SIDE OF LAVATORY TO BE 27" PER A.D.A.

C. G.C. TO COORDINATE ALL RESTROOM FLOORING & BASE CONDITIONS WITH ARCHITECT PRIOR TO INSTALLATION.

D. RESTROOM ACCESSORIES: PAPER TOWEL DISPENSER, TOILET PAPER DISPENSER AND HAND SOAP DISPENSER ARE OWNER PROVIDED AND GC. INSTALLED. VERIFY LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.

RESTROOM TAG NOTES:

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2. NEW WALL MOUNTED URINAL. REFER TO PLUMBING SCHEDULE, SHEET P5.1.
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7. NEW PARTITION MOUNTED ADA AMBULATORY COMPARTMENT GRAB BARS. HORIZONTAL= (2) 42"L SS 102800.
8. NEW WALL MOUNTED MIRROR. SS 102800.
9. NEW FLOOR MOUNTED TERRAZZO MOP SINK. REFER TO PLUMBING SCHEDULE, SHEET P5.1.
10. NEW WALL MOUNTED ADA. COMPLIANT, BI-LEVEL WATER COOLER WITH BOTTLE FILLER. REFER TO PLUMBING SCHEDULE, SHEET P5.1.
11. TOILET PAPER DISPENSER MOUNTED AT 19" A.F.F. OWNER PROVIDED, GC INSTALLED.
12. WALL MOUNTED HAND SOAP DISPENSER. OWNER PROVIDED, GC INSTALLED.
13. WALL MOUNTED PAPER TOWEL DISPENSER. OWNER PROVIDED, GC INSTALLED.
14. 2X2 PORCELAIN TILE FLOOR FINISH. REFER TO SS 093000 FOR SPECIFICATIONS.
15. PROVIDE 4" SLOPED MARBLE THRESHOLD AT TRANSITION BETWEEN PORCELAIN TILE AND VCT IN THIS LOCATION. REFER TO SS 093000.
16. 6" HIGH, 2X2 PORCELAIN TILE BASE. PROVIDE BULLNOSE ON UPPER EXPOSED EDGE. REFER TO SS 093000 FOR SPECIFICATIONS.
17. 2X2 PORCELAIN WALL TILE MOSAIC (VERTICAL STRIPED PATTERN) ON WATER COOLER WALL. PROVIDE BULLNOSE ON ALL EXPOSED EDGES. REFER TO SS 093000 FOR SPECIFICATIONS AND TILE COLOR SCHEDULE.
18. NEW 8" X 8" X 16" CMU WALL, STACKED BOND. PAINT. SS 042000.
19. NEW SUSPENDED ACOUSTICAL CEILING SYSTEM. SS 095120.
20. EXISTING CMU WALL, STACKED BOND. PATCH & REPAINT.
21. NEW FLOOR DRAIN. REFER TO PLUMBING DRAWINGS.
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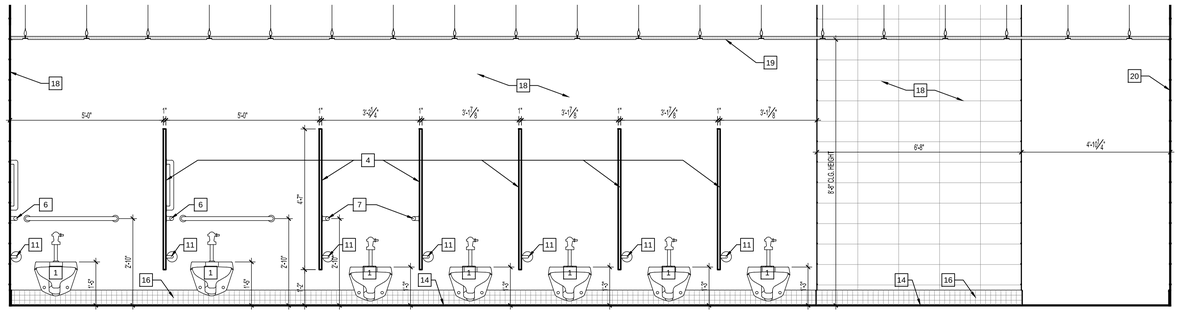
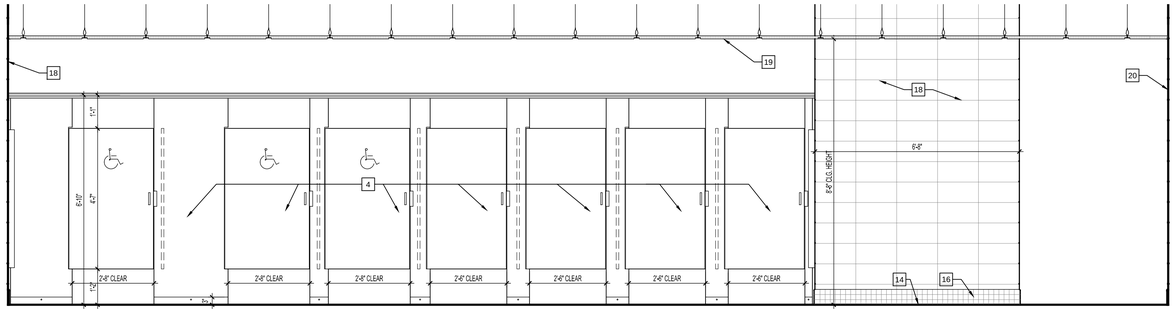


A
A4.2

ELEVATION - GIRL'S RESTROOM 305

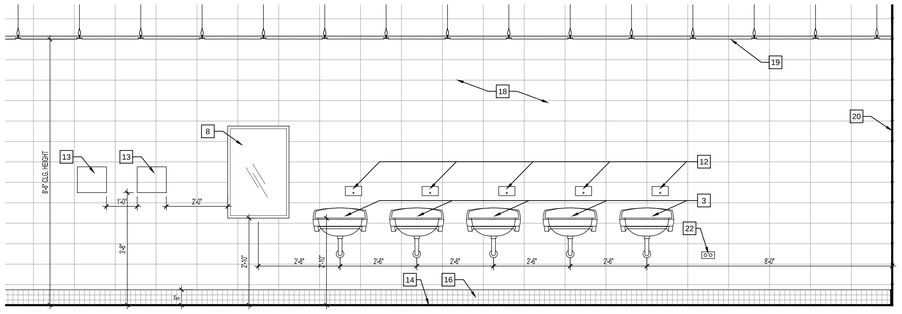
SCALE: 1/2" = 1'-0"



B
A4.2

ELEVATION - GIRL'S RESTROOM 305

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



C
A4.2

ELEVATION - GIRL'S RESTROOM 305

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

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ENLARGED RESTROOM ELEVATIONS

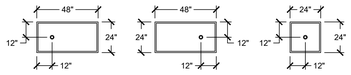
BREATHITT COUNTY PUBLIC SCHOOLS
SEBASTIAN ELEMENTARY SCHOOL - PARTIAL RENOVATION
244 L.B.J. Rd. JACKSON, KY 41339

Proj. #: 1901
Date: MAY 29, 2019
Drawn: MFI
Checked: SO
Revised:

A4.2

FIRE PROTECTION GENERAL NOTES

1. REFER TO SPECIFICATIONS AND THE CONTRACT DOCUMENTS FOR ADDITIONAL INFORMATION.
2. ALL FIRE-SUPPRESSION WORK SHALL BE PERFORMED BY A LICENSED FIRE-SUPPRESSION CONTRACTOR WITH A MINIMUM OF 5 YEARS EXPERIENCE DESIGN AND ERECTING FIRE-SUPPRESSION SYSTEMS.
3. PROVIDE A COMPLETE FIRE-SUPPRESSION SYSTEM INCLUDING MODIFICATIONS TO EXISTING WORK, NEW PIPING AND ACCESSORIES, AND TESTING AS REQUIRED TO MEET ALL PROVISIONS OF THE KENTUCKY BUILDING CODE AND ALL APPLICABLE NFPA CODES.
4. THE FIRE-SUPPRESSION CONTRACTOR SHALL HYDRAULICALLY DESIGN AND SIZE THE MAIN SERVICE AND SPRINKLER SYSTEM TO FULLY PROTECT THE ENTIRE BUILDING IN COMPLIANCE WITH THE KENTUCKY BUILDING CODE, NFPA-13, NFPA-14, NFPA-20, NFPA-24, AND LOCAL CODES. THE FIRE-SUPPRESSION CONTRACTOR SHALL PROVIDE AND SUBMIT DRAWINGS AND HYDRAULIC CALCULATIONS TO THE MECHANICAL ENGINEER FOR REVIEW AND THE STATE FOR CODE APPROVAL.
5. FIRE-SUPPRESSION CONTRACTOR SHALL OBTAIN A COPY OF THE ENTIRE SET OF CONTRACT DOCUMENTS AND SHALL COORDINATE ROUTING AND INSTALLATION WITH ALL OTHER DISCIPLINES AND TRADES INCLUDING BUT NOT LIMITED TO CIVIL, ARCHITECTURAL, STRUCTURAL, PLUMBING, HVAC, AND ELECTRICAL IN THE LAY-OUT OF SPRINKLER PIPING AND HEADS. COORDINATE HEAD TYPES WITH ARCHITECTURAL CEILING TYPES. STRUCTURAL MEMBERS SHALL NOT BE CUT OR COMPROMISED IN ANY WAY. DO NOT MOUNT SPRINKLER HEADS OR HANG PIPING SO AS TO BLOCK ACCESS TO HVAC OR ELECTRICAL EQUIPMENT. DO NOT INSTALL PIPING OVER ELECTRICAL PANELS/SWITCHGEAR OR THE 36" CLEARANCE IN FRONT OF THESE ELECTRICAL ITEMS. COORDINATE ADDITIONAL REQUIREMENTS WITH NEC. FIRE-SUPPRESSION CONTRACTOR SHALL COORDINATE AND SCHEDULE ALL FIRE-SUPPRESSION WORK WITH THE GENERAL CONTRACTOR AND ACCOMMODATE CONSTRUCTION PHASING REQUIREMENTS AND ALL OTHER TRADES AS REQUIRED.
6. CENTER SPRINKLER HEADS (EACH WAY) IN CEILING TILES. SPRINKLER HEADS SHALL BE CENTERED IN 2'x 2' SECTIONS OF 2'x 4' CEILING TILES WHERE INSTALLED IN A LAY-IN CEILING. REFER TO FIRE-SUPPRESSION DETAILS FOR CLARIFICATION. REFER TO ARCHITECTURAL FOR FINAL REFLECTED CEILING PLANS TO CLARIFY CEILING TYPES AND CEILING GRIDS. COORDINATE HEAD LOCATIONS WITH LIGHTING AND AIR DEVICES.
7. INSTALL CAPPED DRAIN VALVES AND ANY AND ALL ADDITIONAL DRAIN VALVES AS REQUIRED TO COMPLETELY DRAIN THE FIRE-SUPPRESSION SYSTEM. INSTALL ALL REQUIRED DRAIN PIPING TO FLOW TEST POINTS. DISCHARGE ALL DRAIN PIPING TO OUTDOORS OR TO AN APPROVED LOCATION. PROVIDE LISTED AIR RELEASE FOR ALL TRAPPED RUNS OF FIRE-SUPPRESSION PIPING.
8. ALL FIRE-SUPPRESSION COMPONENTS INCLUDING BUT NOT LIMITED TO VALVES, PIPE, FITTINGS, CONTROL SYSTEMS, AND TRIM SHALL BE UL AND/OR FM LISTED FOR FIRE SERVICE AS REQUIRED BY THE KENTUCKY BUILDING CODE AND/OR THE AUTHORITY HAVING JURISDICTION.
9. PROVIDE GUARDS AND/OR SPECIAL HEADS AS REQUIRED FOR A COMPLETE AND FUNCTIONAL DESIGN AND INSTALLATION AND AS REQUIRED TO COMPLY WITH NFPA-13. PROVIDE HIGH TEMPERATURE HEADS FOR AREAS NEAR SPACE HEATING OUTLETS AND EQUIPMENT AS REQUIRED.
10. ALL OPENINGS FOR FIRE-SUPPRESSION ITEMS SHALL BE CUT, SLEEVED, ETC. BY THE FIRE-SUPPRESSION CONTRACTOR. ALL OPENINGS SHALL BE CORE DRILLED OR SAW-CUT. NO HAMMER DRILLING WILL BE ALLOWED.
11. INSTALL FIRE/SMOKE STOPPING FOR ALL FIRE-SUPPRESSION PIPING PENETRATIONS THRU FIRE/SMOKE RATED ASSEMBLIES INCLUDING BUT NOT LIMITED TO PARTITIONS, WALLS, AND SLABS. ALL PENETRATION INSTALLATIONS SHALL BE CONSTRUCTED PER AN APPROVED UL AND/OR 3M LISTED PENETRATION ASSEMBLY. THE FIRE-SUPPRESSION CONTRACTOR SHALL COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS FOR SPRINKLER PIPING WITH THE GENERAL CONTRACTOR AND OTHER TRADES AS REQUIRED FOR A COMPLETE INSTALLATION.
12. CERTAIN AREAS ON THE DRAWINGS MAY ILLUSTRATE A SPRINKLER HEAD TYPE AND/OR LOCATION. THE INTENT WITH THIS SCENARIO IS TO ILLUSTRATE CONCEPTUAL REQUIREMENTS. ANY ADDITIONAL HEADS THAT MAY BE REQUIRED TO COMPLY WITH NFPA-13 IS THE RESPONSIBILITY OF THE FIRE-SUPPRESSION CONTRACTOR. ALL AREAS NOT SHOWN TO BE SPRINKLERED BUT REQUIRED TO BE SPRINKLERED PER NFPA-13 SHALL BE SPRINKLERED IN COMPLIANCE WITH THE CONTRACT DOCUMENTS AND AS PART OF THE DELEGATED DESIGN AND INSTALLATION PROCESS.



HEAD PLACEMENT IN ACOUSTICAL TILE

FIRE PROTECTION LEGEND:

—— FP ——	NEW FIRE FROTECTION PIPING AND OR EQUIPMENT
—o —o	ELBOW UP, DOWN
—o— —o—	TEE UP, DOWN
—⋈— —⋈—	VALVE IN HORIZ AND VERTICAL PIPING
TS ⋈ TS ⋈	TAMPER SWITCH ON VALVE: HORZ/VERT
FS FS	FLOW SWITCH IN PIPING: HORIZ/VERT

STATE OF KENTUCKY NICHOLAS MARCUS MILLER LICENSED PROFESSIONAL ENGINEER
MAY 28, 2019

architects
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SHROUT TATE WILSON
MECHANICAL AND ELECTRICAL ENGINEERS
Lexington - Louisville
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FIRE PROTECTION LEGEND AND NOTES

BREATHITT COUNTY PUBLIC SCHOOLS
SEBASTIAN ELEMENTARY SCHOOL - PARTIAL RENOVATION
244 L.B.J. Rd. JACKSON, KY 41339

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Date: MAY 28, 2019
Drawn: CT
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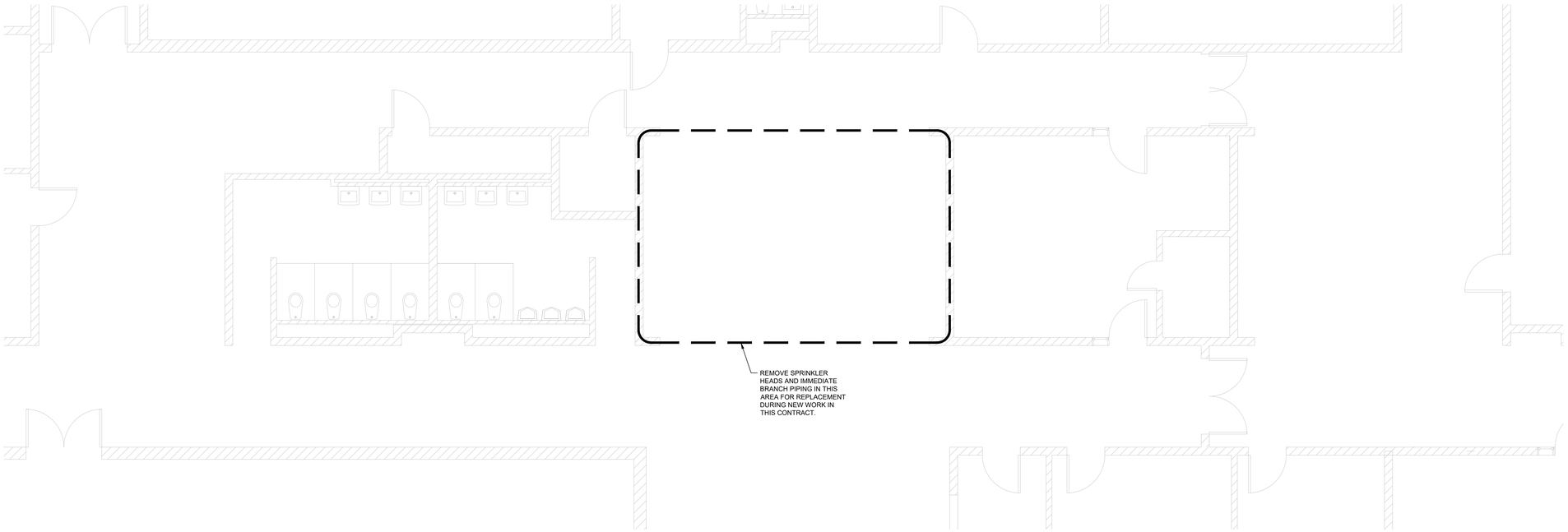
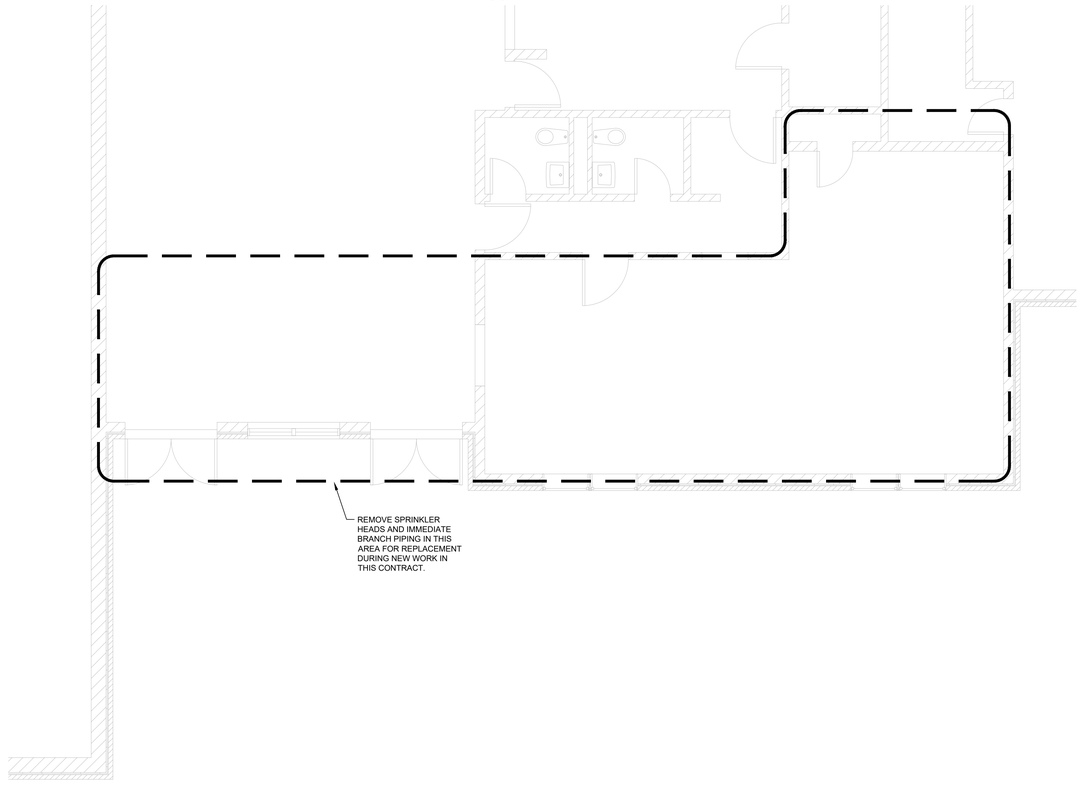
FP0.1



B
FPD1.1 AREA 'B' DEMOLITION PLAN - FIRE PROTECTION
SCALE: 1/4" = 1'-0"



A
FPD1.1 AREA 'A' DEMOLITION PLAN - FIRE PROTECTION
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. SEE SHEET FP0.1 FOR GENERAL NOTES, LEGENDS, AND ABBREVIATIONS.

STATE OF KENTUCKY NICHOLAS C. MARCUM LICENSED PROFESSIONAL ENGINEER
MAY 24, 2019

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ENLARGED DEMOLITION PLANS - FIRE PROTECTION

BREATHITT COUNTY PUBLIC SCHOOLS
SEBASTIAN ELEMENTARY SCHOOL - PARTIAL RENOVATION
244 L.B.J. Rd. JACKSON, KY 41339

Proj. #: 1901
Date: MAY 28, 2019
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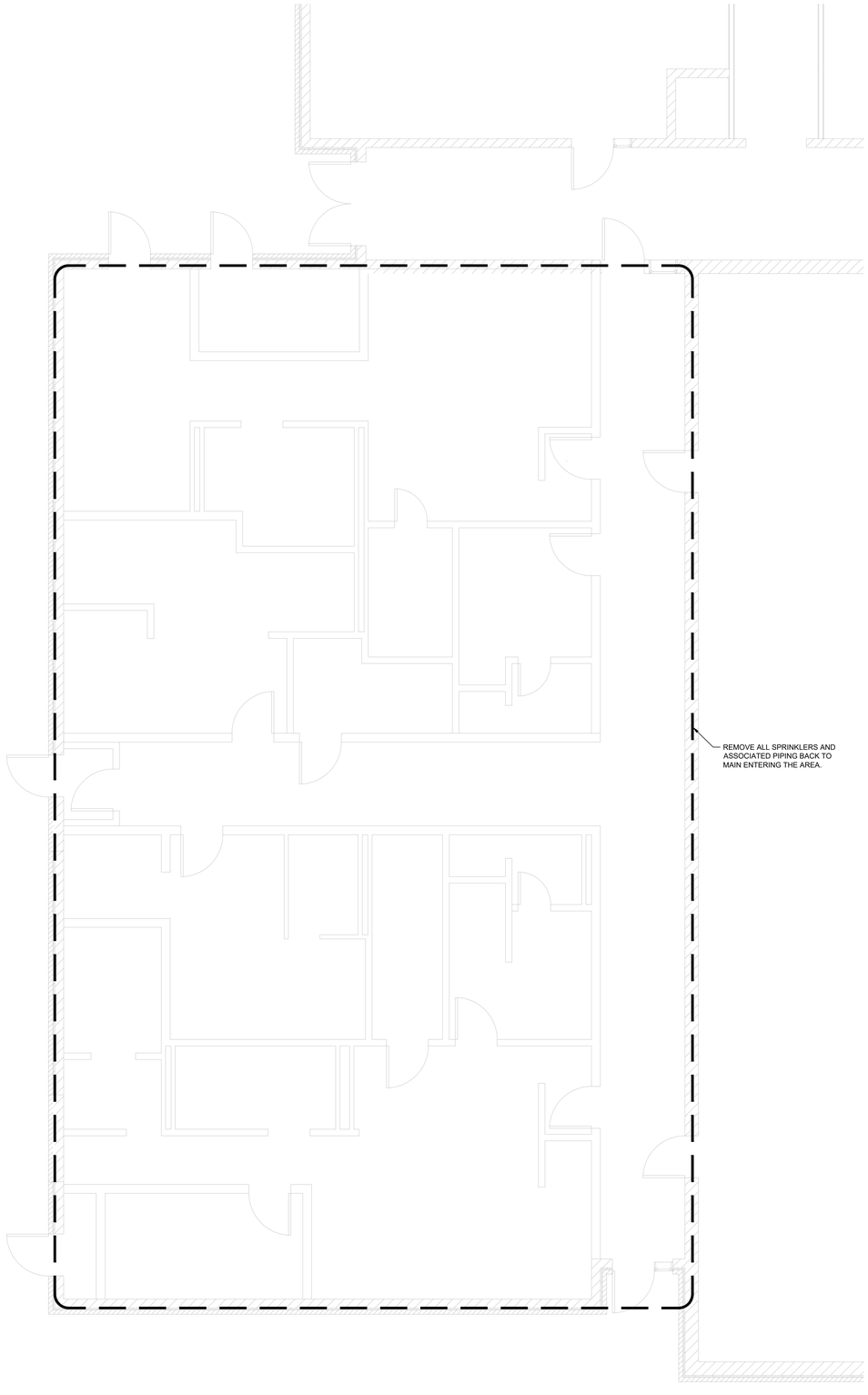
FPD1.1

GENERAL NOTES

1. SEE SHEET FP0.1 FOR GENERAL NOTES, LEGENDS, AND ABBREVIATIONS.



A / FPD1.2 AREA 'C' DEMOLITION PLAN - FIRE PROTECTION

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

STATE OF KENTUCKY NICHOLAS MARCUS TATE LICENSED PROFESSIONAL ENGINEER
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ENLARGED DEMOLITION PLANS - FIRE PROTECTION

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Date: MAY 28, 2019
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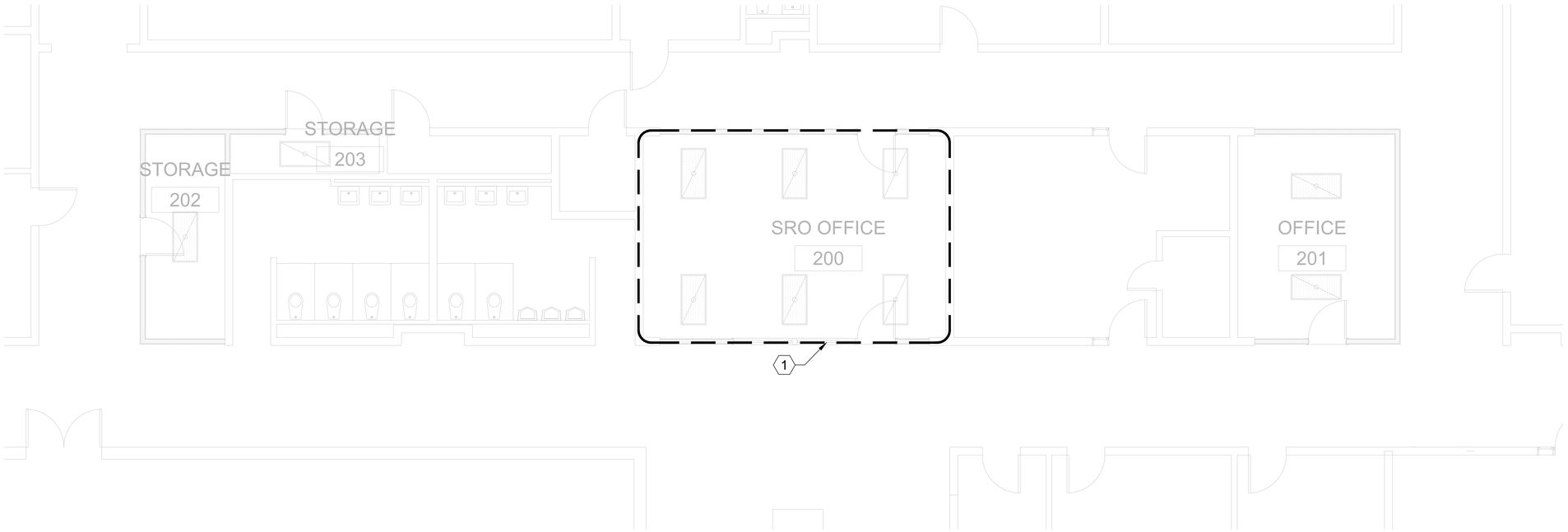
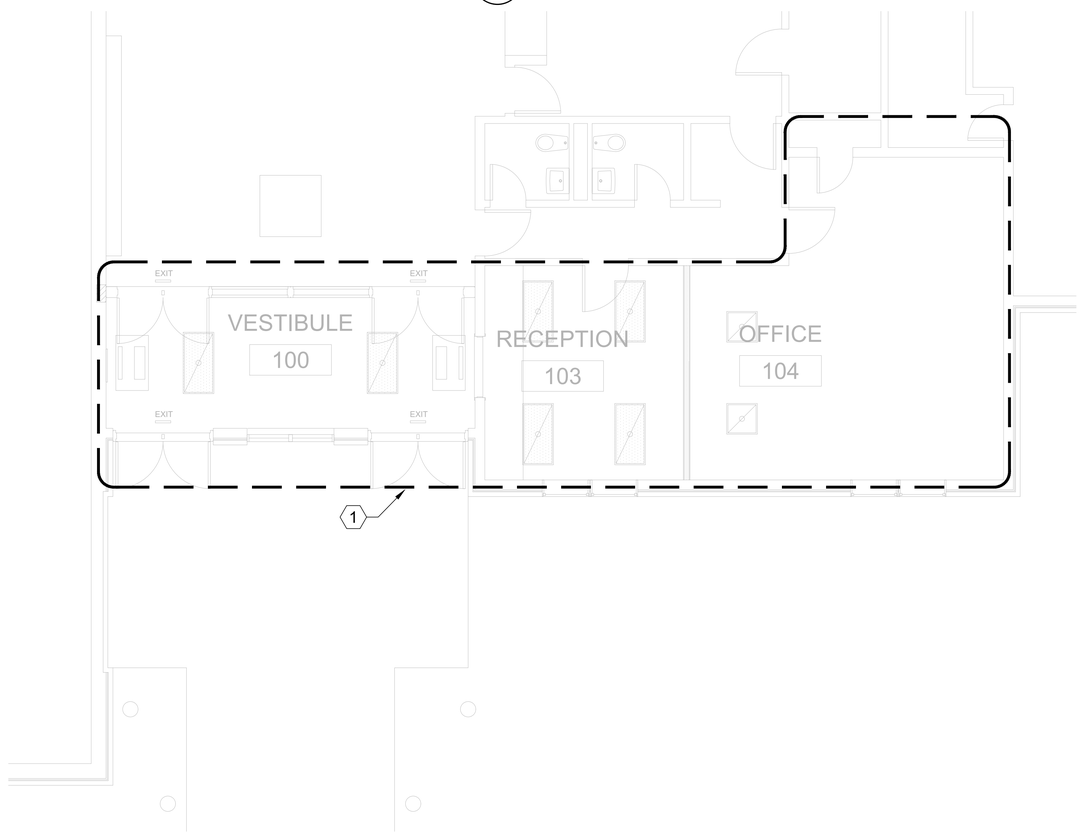
Revised:

FPD1.2



B FP1.1 AREA 'B' PLAN - FIRE PROTECTION
SCALE: 1/4" = 1'-0"



A FP1.1 AREA 'A' PLAN - FIRE PROTECTION
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. SEE SHEET FP0.1 FOR GENERAL NOTES, LEGENDS, AND ABBREVIATIONS.

⬡ SHEET NOTES

1. PROVIDE BRANCH PIPING AND UP TO 48" WHIPS TO NEW SPRINKLER HEAD LOCATIONS IN THIS AREA. SPRINKLER HEAD TYPES SHALL MATCH THE EXISTING TYPE IN THE AREA.

STATE OF KENTUCKY NICHOLAS MARCUM TATE LICENSED PROFESSIONAL ENGINEER
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ENLARGED FLOOR PLANS - FIRE PROTECTION

BREATHITT COUNTY PUBLIC SCHOOLS
SEBASTIAN ELEMENTARY SCHOOL - PARTIAL RENOVATION
244 L.B.J. Rd. JACKSON, KY 41339

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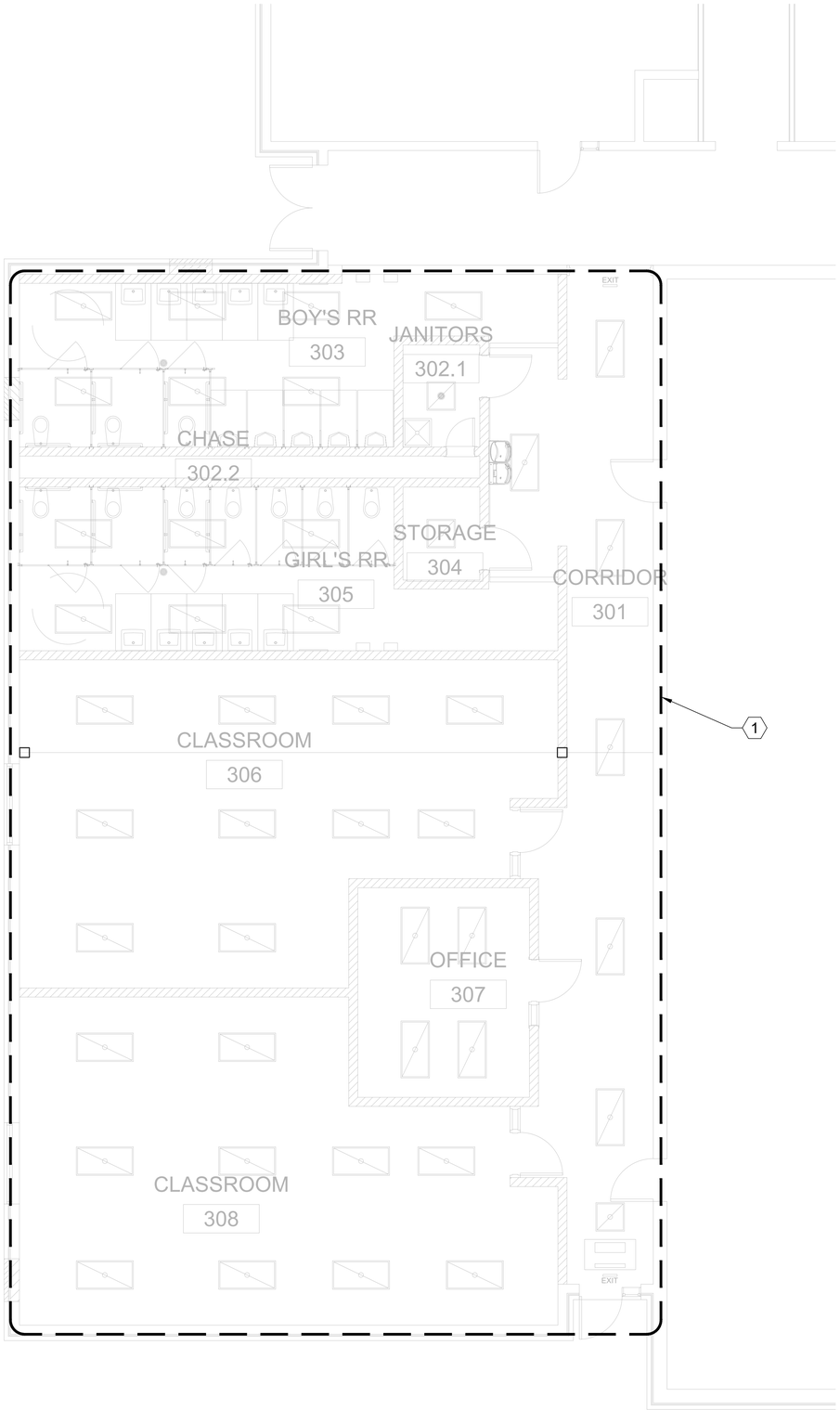
FP1.1



A FP1.2 AREA 'C' PLAN - FIRE PROTECTION
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. SEE SHEET FP0.1 FOR GENERAL NOTES, LEGENDS, AND ABBREVIATIONS.

SHEET NOTES

1. PROVIDE NEW SPRINKLER SYSTEM IN THIS AREA. SPRINKLER HEAD TYPES SHALL MATCH THE EXISTING TYPE AND COLOR IN THE AREA.

STATE OF KENTUCKY NICHOLAS MARCUM EXPIRES 6/30/19 LICENSED PROFESSIONAL ENGINEER

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ENLARGED FLOOR PLAN - FIRE PROTECTION

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Proj. #: 1951
Date: MAY 28, 2019
Drawn: CT
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Revised:

FP1.2

PLUMBING LEGEND

PLUMBING SYMBOLS

SYMBOL	DESCRIPTION
	PIPE DOWN
	PIPE UP
	TEE DOWN
	TEE UP
	CONTINUATION
	CAP
	HAMMER ARRESTOR
	BALANCING VALVE
	BALL VALVE
	BUTTERFLY VALVE
	ELECTRIC CONTROL VALVE
	PRESSURE REDUCING VALVE
	CHECK VALVE
	GATE VALVE
	PLUG VALVE
	REDUCER
	UNION
	VALVE IN VERTICAL
	PRESSURE GAUGE
	STRAINER
	FLOW INDICATOR
	CLEANOUT
	FLOOR CLEANOUT
	THERMOMETER
	RECIRC. BALANCING STATION
FS	FLOW SWITCH
TS	TAMPER SWITCH ON VALVE
	PUMP, INLINE
	SUMP PUMP
G	GAS METER
W	WATER METER
TB	THRUST BLOCK
R	GAS REGULATOR
C	FLOOR DRAIN
C	P-TRAP
	FLOOR DRAIN GRATE
TS	FLOOR DRAIN GRATE
XX	SHEET NOTE
XX	DEMOLITION NOTE
	CONNECT NEW TO EXISTING
	EXTENT OF DEMOLITION
XX-XX	EQUIPMENT TAG
RISER X P.X.XX	RISER IDENTIFICATION TAG

ABBREVIATIONS

ADP	ACID DILUTION PIT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AG	AIR GAP
AV	ACID VENT
AW	ACID WASTE
BFF	BELOW FINISHED FLOOR
BFG	BELOW FINISHED GRADE
BTU	BRITISH THERMAL UNIT
CA	COMPRESSED AIR
CFH	CUBIC FEET/HOUR
CI	CAST IRON
CRD	COMBINATION ROOF DRAIN
CO	CLEANOUT
CON	CONDENSATE
CW	COLD WATER
D	DISPOSAL
DD	DECK DRAIN
DI	DUCTILE IRON
DF	DRINKING FOUNTAIN
DSN	DOWNSPOUT NOZZLE
ECO	EXTERIOR CLEANOUT
EEW	EMERGENCY EYE WASH
ESEW	EMERGENCY SHOWER / EYE WASH
ET	EXPANSION TANK
ETP	ELECTRONIC TRAP PRIMER
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FS	FLOOR SINK
FS	FLOW SWITCH
G	NATURAL GAS
GPM	GALLONS PER MINUTE
GR	GREASE
GRV	GREASE VENT
GT	GREASE TRAP
GWH	GAS WATER HEATER
HA	HAMMER ARRESTOR
HB	HOSE BIBB
HW	HOT WATER
HWR	HOT WATER RETURN
I.E.	INVERT ELEVATION
IMB	ICE MAKER BOX
L/LAV	LAVATORY
LPG	LIQUID PETROLEUM GAS
LT	LAUNDRY TUB
MA	MEDICAL AIR
MB	MOP BASIN
MBH	1,000 BTU
MG	MEDICAL GAS
MH	MANHOLE
MIN	MINIMUM
MS	MOP SINK
N2	NITROGEN
O2	OXYGEN
OR	OPEN RECEPTACLE
ORD	OVERFLOW ROOF DRAIN
ORL	OVERFLOW ROOF LEADER
OWS	OIL WATER SEPARATOR
PD	PUMP DISCHARGE
PDI	PLUMBING DRAINAGE INSTITUTE

ABBREVIATIONS CONT.

PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PT	PLASTER TRAP
RBS	RECIRC. BALANCE STATION
RD	ROOF DRAIN
RL	ROOF LEADER
RP	RECIRCULATION PUMP
RPZ	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
S	SINK
SAN	SANITARY
SCO	STACK CLEANOUT
SP	SUMP PUMP
SS	SERVICE SINK
ST	STORAGE TANK
STM	STORM
TB	THRUST BLOCK
TD	TRENCH DRAIN
TP	TRAP PRIMER
TMV	THERMOSTATIC MIXING VALVE
T&P	TEMPERATURE & PRESSURE
TS	TAMPER SWITCH
U	URINAL
UT	UTILITY TUB
V	VENT
VB	VACUUM BREAKER
VTR	VENT THROUGH ROOF
WB	WASHER BOX
WC	WATER CLOSET
W.C.	WATER COLUMN
WCO	WALL CLEANOUT
WH	WALL HYDRANT
WS	WASH STATION
WS	WATER SOFTENER
X	EXISTING

PLUMBING LINETYPES

SYMBOL	DESCRIPTION
1"CW	UNDER SLAB COLD WATER PIPING WITH SIZE
1"CW	COLD WATER PIPING WITH SIZE
1"HW	HOT WATER PIPING WITH SIZE
1"HWR	HOT WATER RETURN PIPING WITH SIZE
1"SAN	UNDER SLAB SANITARY PIPING WITH SIZE
1"SAN	SANITARY PIPING WITH SIZE
1"V	UNDER SLAB VENT PIPING WITH SIZE
1"V	VENT PIPING WITH SIZE
1"GR	UNDER SLAB GREASE PIPING WITH SIZE
1"GRV	UNDER SLAB GREASE VENT PIPING WITH SIZE
1"GRV	GREASE VENT PIPING WITH SIZE
1"AW	UNDER SLAB ACID WASTE PIPING WITH SIZE
1"AW	ACID WASTE PIPING WITH SIZE
1"AV	UNDER SLAB ACID VENT PIPING WITH SIZE
1"AV	ACID VENT PIPING WITH SIZE
1"RL	ROOF LEADER PIPING WITH SIZE
1"STM	UNDER SLAB STORM WITH SIZE
1"G	UNDER SLAB GAS PIPING WITH SIZE (SLEEVED)
1"G	GAS PIPING WITH SIZE
1"TW	TEMPERED WATER PIPING WITH SIZE

GENERAL NOTES - PLUMBING:

1. CONSTRUCTION PHASING: ALL WORK SHALL BE COORDINATED AND SCHEDULED WITH THE GENERAL CONTRACTOR, OTHER TRADES, THE OWNER, RELATED UTILITY COMPANIES SHALL COINCIDE WITH CONSTRUCTION PHASING PER THE ARCHITECTURAL DOCUMENTS. CONTACT THE ARCHITECT/ENGINEER IN THE EVENT OF A CONFLICT.
2. NEW UTILITIES: THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NEW UTILITY SERVICES AND COSTS UNDER THIS CONTRACT. COORDINATE AND SCHEDULE ALL RELATED WORK WITH THE UTILITY COMPANIES.
3. MAINTAIN SITE UTILITIES: THE CONTRACTOR SHALL MAINTAIN ALL EXISTING SITE UTILITIES AT ALL TIMES. THE CONTRACTOR SHALL WORK CONTINUOUSLY TO RESTORE ANY OUTAGE. SCHEDULED SHUT-DOWNS SHALL REQUIRE 48 HOUR PRIOR NOTIFICATION WITH OWNER. COORDINATE ALL RELATED WORK WITH THE OWNER AND THE UTILITY COMPANIES AS REQUIRED.
4. VERIFY UTILITIES: FIELD VERIFY THE LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES WHERE REQUIRED FOR CONNECTIONS OF NEW WORK PRIOR TO CONSTRUCTION AND FABRICATION. DOCUMENT ON THE AS-BUILT DRAWINGS; THE TYPE, SIZE, MATERIAL, LOCATION AND INVERT ELEVATIONS OF ALL UTILITIES ENCOUNTERED. COORDINATE ALL RELATED WORK WITH ALL PARTIES INVOLVED. CONTACT THE ENGINEER IN THE EVENT OF A CONFLICT.
5. CONTACT B.U.D.: THE EXISTING UTILITIES, EQUIPMENT, AND PIPING SHOWN ON THESE DRAWINGS ARE FROM RECORD DRAWINGS AND VISUAL INSPECTION OF THE SITE. THE NUMBER, LOCATION, SIZE, AND TYPE OF UTILITIES SHOWN ARE APPROXIMATE, AND THERE MAY BE OTHER UTILITIES NOT SHOWN. THE CONTRACTOR SHALL CONTACT ALL AFFECTED UTILITY COMPANIES AND KENTUCKY B.U.D. PRIOR TO BEGINNING EXCAVATION.
6. PERMITS, TESTING, AND INSPECTIONS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS, TESTING AND SCHEDULES INSPECTIONS.
7. REMOVAL OF EXISTING UTILITIES: REMOVE UNUSED/ABANDONED EQUIPMENT, PIPING, ETC. AS NECESSARY TO INSTALL THE NEW WORK. CAP THE ENDS OF ALL LINES AND ABANDONED IN PLACE.
8. TEMPORARY CONSTRUCTION HEAT: PROVIDE TEMPORARY HEAT IN CONSTRUCTION AREAS AS REQUIRED TO PREVENT FREEZING OF WATER PIPING DURING CONSTRUCTION.
9. PATCHING AND REPAIRING: PATCH AND REPAIR ALL AREAS WHERE WALLS, SLABS, PAVEMENT, CURBS, VEGETATION AND MATERIALS HAVE BEEN CUT, REMOVED, DISTURBED AND OR MODIFIED. MATCH EXISTING MATERIALS, RATINGS, AND FINISHES.
10. CUTTING EXISTING MATERIALS: CUTTING OF EXISTING PAVEMENT, SLABS, CONCRETE MASONRY, WALLS, ETC. SHALL BE SAW-CUT OR CORE DRILLED. NO "HAMMER DRILLING" WILL BE ALLOWED.
11. ROOFING PENETRATIONS: ALL ROOF PENETRATIONS SHALL BE IN COMPLIANCE WITH THE ROOFING MANUFACTURER'S GUIDELINES, THE AMERICAN ROOFING COUNCIL, AND MAINTAIN ALL WARRANTIES.
12. WALL PENETRATIONS: SEAL ALL PIPING PENETRATIONS THROUGH EXTERIOR WALLS WITH SILICONE SEALANT AS REQUIRED TO MAKE WATER/WEATHER TIGHT.
13. EXISTING WALL OPENINGS: EXISTING OPENINGS IN WALLS THAT ARE NOT BEING RE-USED SHALL BE PATCHED/CLOSED BY THE GENERAL CONTRACTOR.
14. NEW OPENINGS: NEW OPENINGS FOR PLUMBING PENETRATIONS THROUGH FIRE/SMOKE RATED WALLS, ASSEMBLIES AND SLABS SHALL BE BY THE GENERAL CONTRACTOR. THE PLUMBING CONTRACTOR SHALL COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS WITH THE GENERAL CONTRACTOR AND OTHER TRADES.
15. FIRE AND SMOKE STOPPING: ALL PLUMBING PENETRATIONS THROUGH FIRE/SMOKE RATED WALLS, ASSEMBLIES AND SLABS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THE PLUMBING CONTRACTOR SHALL COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS WITH THE GENERAL CONTRACTOR AND OTHER TRADES.
16. INSULATION: INSULATE ALL DOMESTIC HOT/COLD WATER, RECIRCULATION PIPING, AND ROOF LEADERS.
17. HAMMER ARRESTOR: ALL HAMMER ARRESTORS SHOWN ON FLOOR PLANS, BUT NOT ON RISERS OR VICE VERSA SHALL BE PROVIDED AND INSTALLED AS SHOWN ON BOTH.
18. VALVES: ALL VALVES SHOWN ON FLOOR PLANS, BUT NOT ON RISERS OR VICE VERSA, SHALL BE PROVIDED AND INSTALLED AS IF SHOWN ON BOTH.
19. ELECTRICAL PANELS AND EQUIPMENT: PLUMBING PIPING, SYSTEMS, AND EQUIPMENT SHALL BE INSTALLED TO MAINTAIN THE DEDICATED WORKING/ELECTRICAL SPACE ABOVE, BELOW, AND IN FRONT OF ELECTRICAL PANELS AND EQUIPMENT PER THE REQUIREMENTS OF THE N.E.C. (NATIONAL ELECTRIC CODE).

STATE OF KENTUCKY NICHOLAS MARCUS TATE LICENSED PROFESSIONAL ENGINEER
MAY 28, 2019

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PLUMBING RISER, LEGEND, DETAILS, & SCHEDULES

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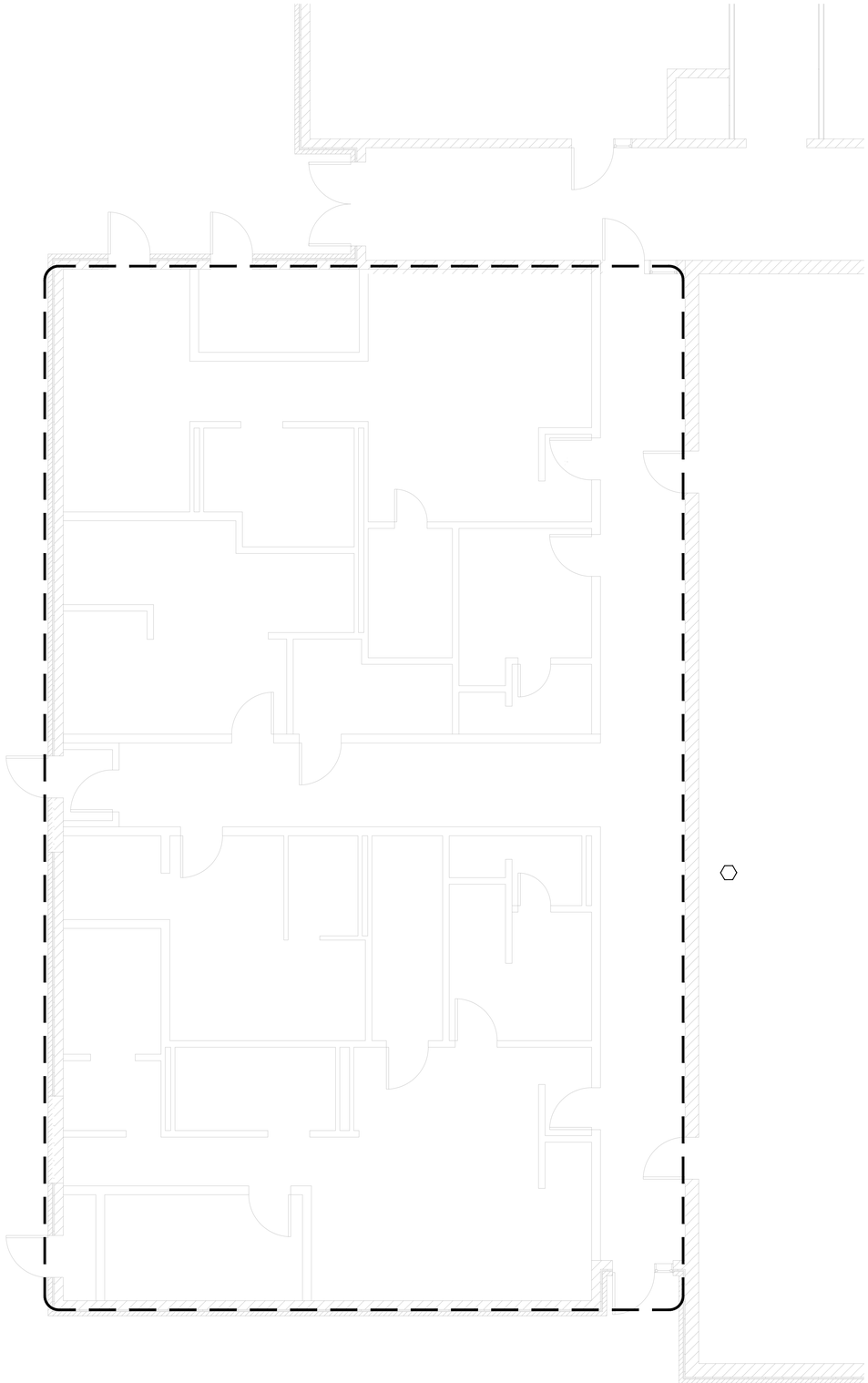
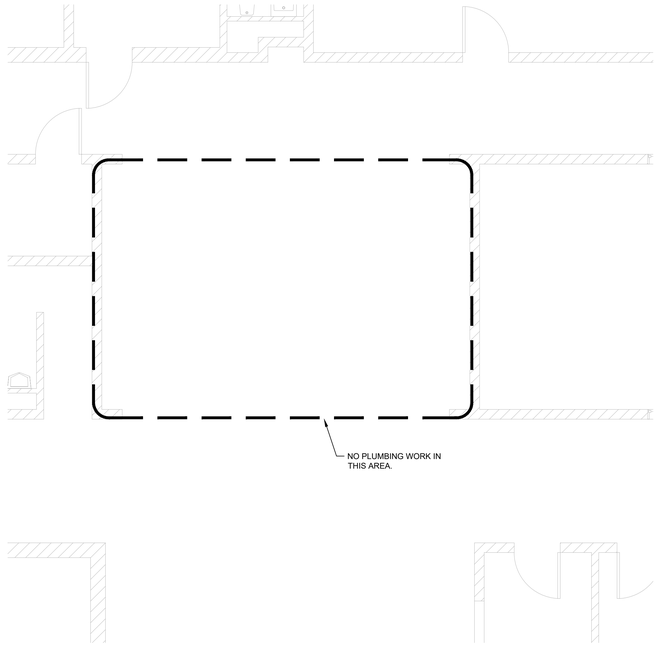
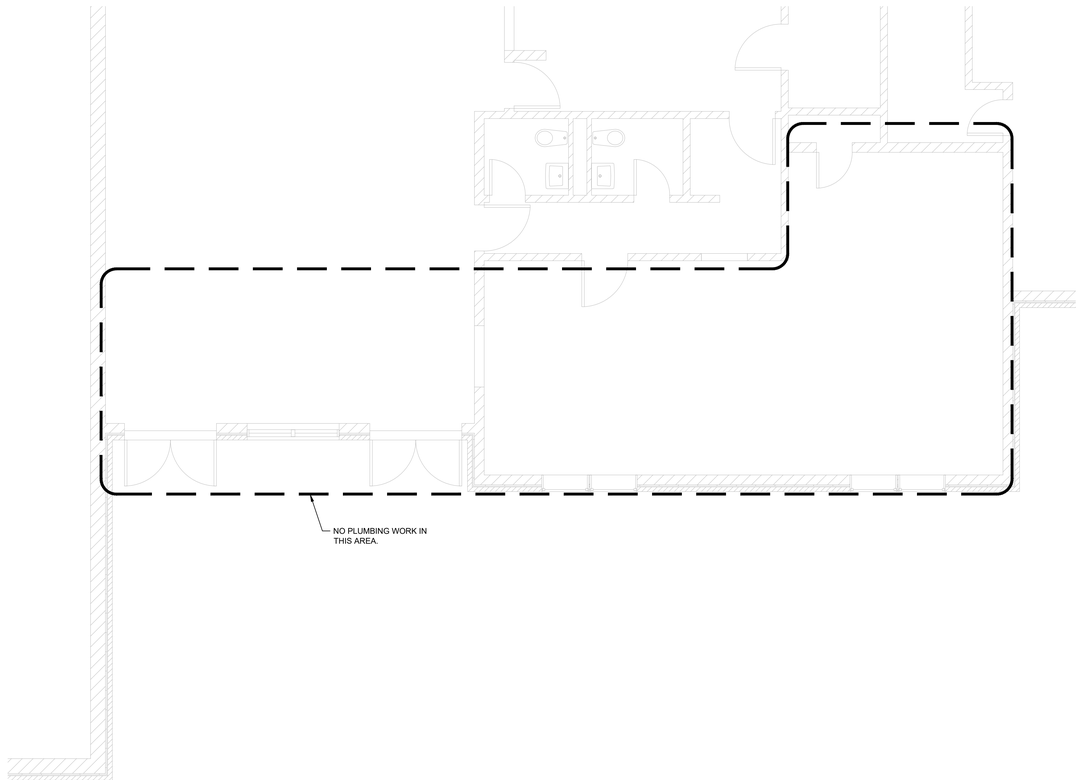


C PD1.1 AREA 'C' DEMOLITION PLAN - PLUMBING
SCALE: 1/4" = 1'-0"



B PD1.1 DEMOLITION PLAN - PLUMBING
SCALE: 1/4" = 1'-0"



A PD1.1 DEMOLITION PLAN - PLUMBING
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. SEE SHEET P001 FOR GENERAL NOTES, LEGENDS, AND ABBREVIATIONS.

⬡ SHEET NOTES

1. CONTRACTOR SHALL REMOVE ALL PLUMBING FIXTURES, TRIM, AND PIPING BACK TO NEAREST MAINS AND CAP.

STATE OF KENTUCKY NICHOLAS MARCUM TATE LICENSED PROFESSIONAL ENGINEER
MAY 28, 2019

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DEMOLITION PLANS - PLUMBING

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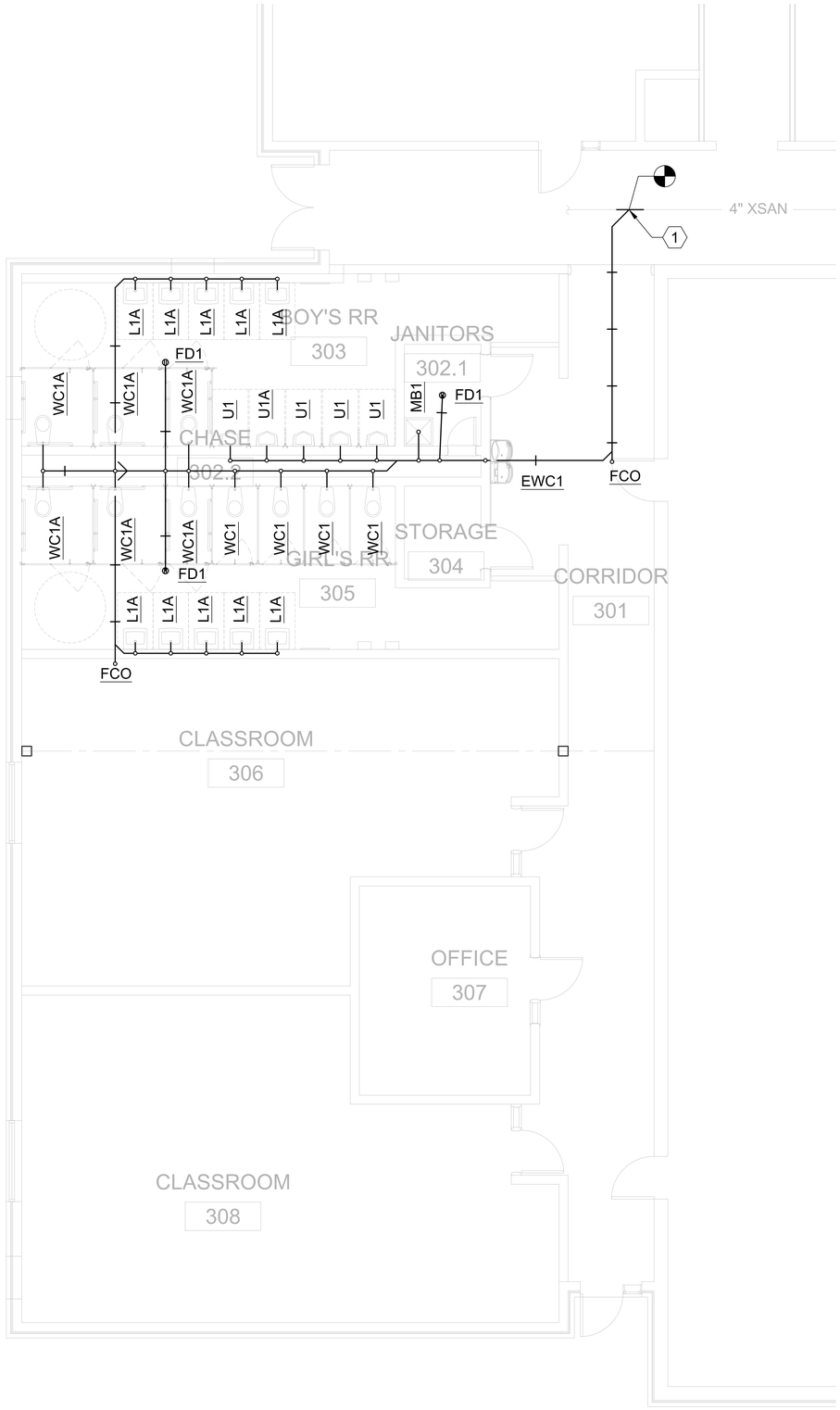

C P1.1 AREA 'C' PLAN - SANITARY SEWER

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

GENERAL NOTES

1. SEE SHEET P001 FOR GENERAL NOTES, LEGENDS, AND ABBREVIATIONS.

⬡ SHEET NOTES

1. CONNECT TO EXISTING 4" SANITARY ASSUMED TO BE ROUTED DOWN THE CENTER OF THE CORRIDOR PER INFORMATION PROVIDED BY THE SCHOOL MAINTENANCE DEPARTMENT.

STATE OF KENTUCKY NICHOLAS C. MARCUM LICENSED PROFESSIONAL ENGINEER
MAY 28, 2019

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ENLARGED FLOOR PLAN - SANITARY SEWER

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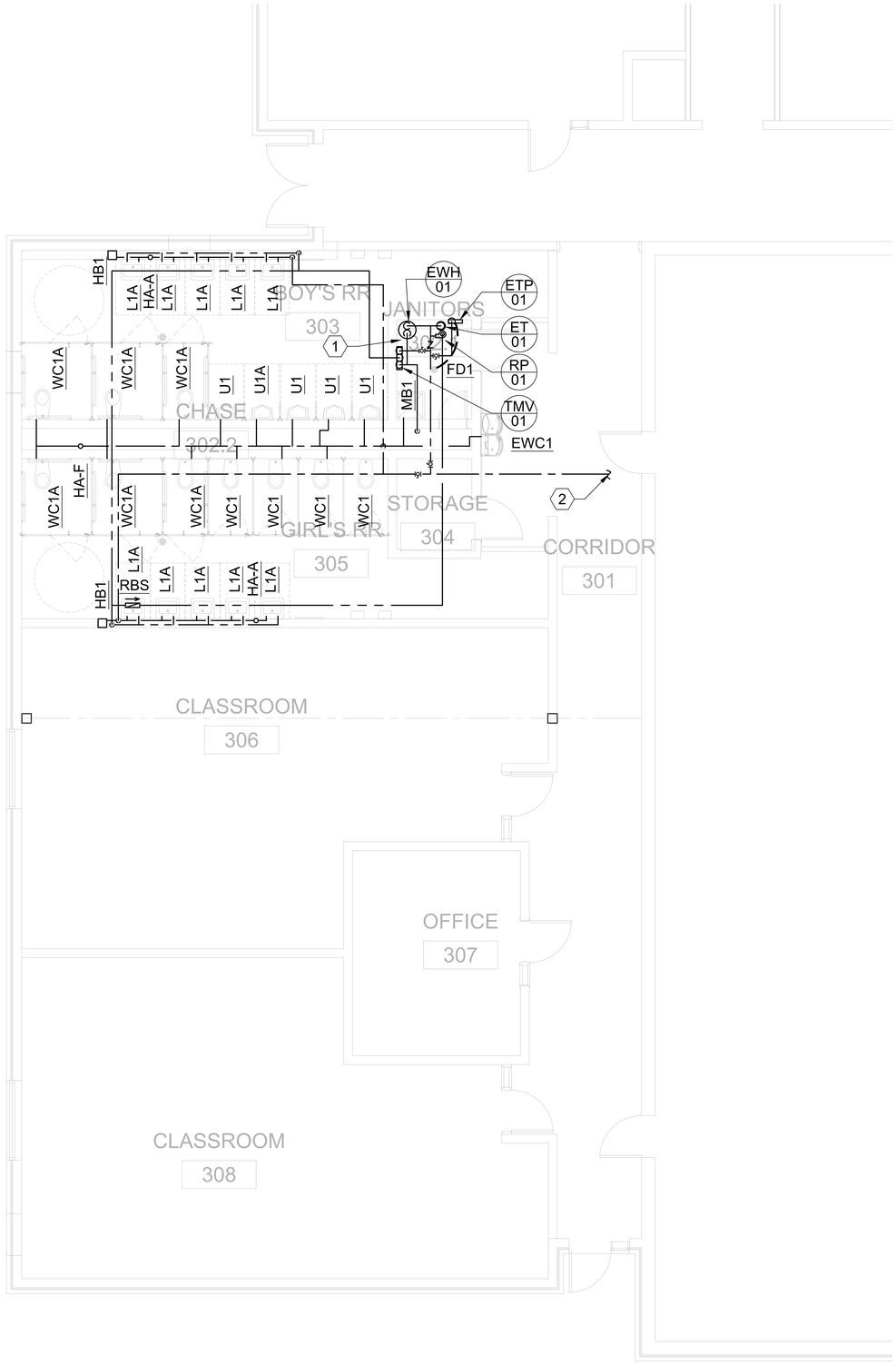

C
P2.1
AREA 'C' PLAN - DOMESTIC WATER
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. SEE SHEET P001 FOR GENERAL NOTES, LEGENDS, AND ABBREVIATIONS.

SHEET NOTES

1. SHEET DETAIL ON SHEET P3.1 FOR PIPING TO EQUIPEMENT IN THIS ROOM.
2. CONTRACTOR TO CONNECT NEW 2 1/2" TO NEAREST EXISTING 2 1/2" DOMESTIC COLD WATER PIPE.

STATE OF KENTUCKY NICHOLAS C. MARCUM 22 REGISTERED PROFESSIONAL ENGINEER
MAY 24, 2019
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ENLARGED FLOOR PLANS - DOMESTIC WATER

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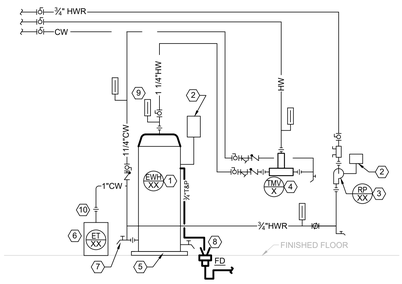
GENERAL WATER HEATER NOTES

- REFER TO PLANS FOR PIPE SIZES AT SPECIFIC WATER HEATERS.
- PROVIDE UNI-STRUT TYPE VERTICAL SUPPORTS FOR RECIRCULATION PUMP.
- INSTALL DIELECTRIC UNION/FLANGE AT ALL WATER CONNECTIONS TO HEATERS.
- LABEL ALL PIPING AND EQUIPMENT. REFER TO SPECIFICATIONS.
- INSULATE ALL DOMESTIC WATER PIPING. REFER TO SPECIFICATIONS.

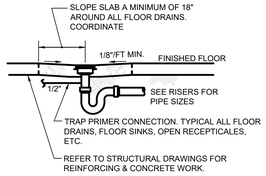


DETAIL NOTES

1. ELECTRIC WATER HEATER. INSTALL PER MANUFACTURERS INSTRUCTIONS. SET DISCHARGE TEMPERATURE TO 140°F.
2. POWER CONNECTIONS BY OTHERS. COORDINATE WITH G.C./ELECTRICAL CONTRACTOR. SEE PIPING SCHEMATIC ON SHEET P502.
3. HOT WATER RECIRCULATION PUMP WITH ONBOARD PROGRAMMABLE CONTROLS. INSTALL PER MANUFACTURERS INSTRUCTIONS. COORDINATE PROGRAMMING WITH OWNER. SEE PIPING SCHEMATIC ON SHEET P502.
4. THERMOSTATIC MIXING VALVE. INSTALL PER MANUFACTURERS INSTRUCTIONS. SEE PIPING SCHEMATIC ON SHEET P502.
5. 4" TALL CONCRETE HOUSEKEEPING PAD, 6" LARGER THAN WATER HEATER EACH DIRECTION.
6. INSTALL EXPANSION TANK ON FLOOR.
7. ¾" BOILER DRAIN.
8. SPILL T&P DISCHARGE TO FLOOR DRAIN.
9. TEMPERATURE GAUGE. (TYPICAL)
10. DIELECTRIC UNION/FLANGE. (TYP.)

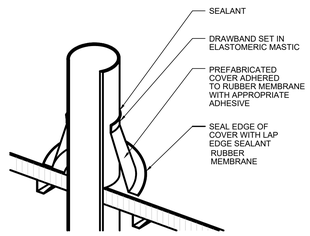
ELECTRIC WATER HEATER PIPING SCHEMATIC

NO SCALE



FLOOR DRAIN DETAIL

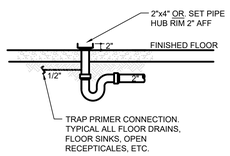
NO SCALE



NOTE: REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL FLASHING.

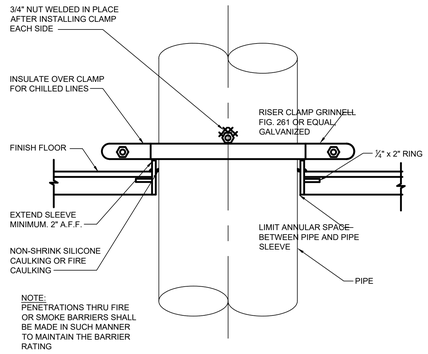
TYPICAL VENT THROUGH ROOF DETAIL

NO SCALE



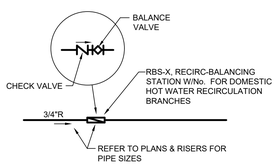
OPEN RECEPTACLE (OR) DRAIN DETAIL

NO SCALE



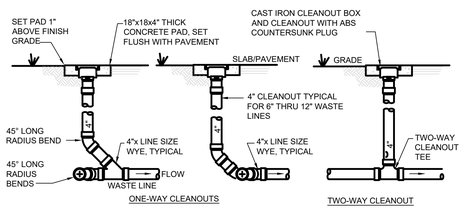
RISER CLAMP SUPPORT DETAIL

NO SCALE



RECIRC-BALANCING STATION (RBS) FOR HOT WATER RECIRCULATION PIPING

NO SCALE



NOTE: CLEANOUTS IN STRAIGHT RUNS OF PIPING SHALL BE TWO-WAY TYPE CLEANOUTS, UNLESS OTHERWISE SHOWN AND OR NOTED.

SANITARY SEWER CLEANOUT DETAILS

NO SCALE

PLUMBING FIXTURE SCHEDULE

MARK	MANUFACTURER	MODEL / TYPE	TRIM	CW	HW	TRAP	WASTE	VENT	MOUNTING	REMARKS	OTHER ACCEPTABLE MANUFACTURERS
WC1 / WC1A	AMERICAN STANDARD	2257.101 WATER CLOSET	FLUSH VALVE: AMERICAN STANDARD 6065.161.002 SEAT: AMERICAN STANDARD 5901.100	1"	---	INTEGRAL	4"	2"	WALL HUNG: WC1 - RIM 15" WC1A - RIM 17"	ADA COMPLIANT, ELONGATED BOWL, TOP SPUD, 1.6G DC SENSOR FLUSH VALVE, HEAVY DUTY OPEN FRONT SEAT LESS COVER, WITH CARRIER	ZURN, SLOAN, KOHLER, CRANE
U1 / U1A	AMERICAN STANDARD	6590.001 URNIAL	FLUSH VALVE: AMERICAN STANDARD 6064.101.002	3/4"	---	INTEGRAL	2"	2"	WALL HUNG: U1 - LIP 24" U1A - LIP 17"	TOP SPUD, 1.0G DC SENSOR FLUSH VALVE, WITH CARRIER	ZURN, SLOAN, KOHLER, CRANE
L1A	AMERICAN STANDARD	0355.012 ADA LAVATORY	FAUCET: AMERICAN STANDARD 6053.202 TRIM: 605XTMV1070 MIXING VALVE AND HOSE, CHROME PLATED GRID DRAIN, LOOSE KEY OPERATED SUPPLY STOPS, ADA COMPLIANT INSULATION WRAP.	1/2"	1/2"	1-1/4"	2"	2"	WALL HUNG: RIM 34"	20-1/2 " X 18-1/4", VITREOUS CHINA, 4" CENTERS, BACK AND SIDE SPLASH, HEAVY DUTY CONCEALED ARM CARRIERS, 0.5 GPM BATTERY OPERATED ELECTRONIC PROXIMITY FAUCET,	ZURN, SLOAN, KOHLER, CRANE, MOEN, DELTA, T&S
MB1	FIAT	TSB100 TERRAZZO MOP SINK	FAUCET: 830AA WITH VACUUM BREAKER TRIM: 832AA HOSE AND HANGER, MSG WALL GUARDS	3/4"	3/4"	3"	3"	2"	FLOOR SET	24" X 24" X 12", STAINLESS STEEL CAPS ON ALL SIDES, ACCESSIBLE CHECK VALVES ON SUPPPLIES	STERN WILLIAMS, MUSTEE
EWC1	ACORN	A172408F-UBL-BF2S ADA HI-LO WATER COOLER & BOTTLE FILLER	TRIM: CSC3 CONCEALED ARM SUPPORT, SK5 SKIRT KIT, BAT BATTERY OPERATED, CHROME P-TRAP	1/2"	---	1-1/4"	2"	2"	WALL HUNG: SPOUT 34" / 40"	SENSOR OPERATED BOTTLE FILLER, 8 GPH OF CHILLED WATER, GRANITE FINISH, FLEXIBLE BUBBLER.	ELKAY, OASIS, HALSEY TAYLOR, MURDOCK
HB1	WOODFORD	B24 BOXED HOSE BIBB	WITH VACUUM BREAKER	3/4"	---	---	---	---	18" AFF	WITH FLANGE	WOODFORD, ZURN , MIFAB
WHI	MURDOCK	M-3509QT NON FREEZE BOX WALL HYDRANT	VARIATIONS: -CL CYLINDER LOCK, -W WATER COVER	3/4"	---	---	---	---	18" AFG	WITH INTEGRAL VACUUM BREAKER, QUARTER TURN FULL FLOW VALVE, COORDINATE DEPTH WITH INTERIOR WALL.	WOODFORD, ZURN , MIFAB
TP	PRECISION PLUMBING PRODUCTS	PRO1-ULP500	INSTALLTION SHALL BE TO THE MANUFACTURERS INSTALLATION INSTRUCTIONS..	1/2"	---	---	1/2"	---	ON COLD WATER SUPPLY	ALL FLOOR DRAINS AND FLOOR SINKS SHALL HAVE TRAPS PRIMED.	WATTS, SIOUX CHIEF, MIFAB
FD1	ZURN	ZB415B-P FLOOR DRAIN	POLISHED BRONZE TOP, TRAP PRIMER CONNECTION	1/2"	---	---	4"	---	FLUSH IN FLOOR	TRAP PIMER PIPING MAY BE PEX TYPE.	WATTS, JAY R SMITH, MIFAB, WADE, JOSAM
FD2	ZURN	Z511-P-Y FLOOR DRAIN	TRAP PRIMER CONNECTION, SEDIMENT BUCKET	1/2"	---	---	4"	---	FLUSH IN FLOOR	TRAP PIMER PIPING MAY BE PEX TYPE.	WATTS, JAY R SMITH, MIFAB, WADE, JOSAM
FCO	ZURN	Z1400 CLEANOUT	POLISHED BRONZE TOP	---	---	---	VARIES	---	FLUSH WITH FLOOR		FROET, WATTS, JAY R SMITH, MIFAB, WADE , JOSAM
ECO	ZURN	Z1400 CLEANOUT	POLISHED BRONZE TOP	---	---	---	VARIES	---	FLUSH WITH GRADE		FROET, WATTS, JAY R SMITH, MIFAB, WADE , JOSAM

ELECTRIC WATER HEATER SCHEDULE

MARK	MANUFACTURER	MODEL	LOCATION	SERVICE	TANK CAPACITY (GAL)	RECOVERY AT 90°F RISE	EXPANSION TANK #	RECIRCULATION PUMP #	MIXING VALVE #	ELECTRICAL KW	ELECTRICAL V / Ø / Hz	ELECTRICAL MCA	ELECTRICAL MOCP	REMARKS
EWH-01	AO SMITH	PNT-30	JANITOR 302.1	TOILET RMS.	30	21	ET-01	RP-01	TMV-01	4.5	208/1/60	27	30	ALL

REMARKS:
1. PROVIDE WITH ASME APPROVED TEMPERATURE AND PRESSURE RELIEF VALVE.
2. SET AT 140 DEGREES. INSTALL MIXING VALVE TO PROVIDE 120 DEGREES TO FIXTURES.
3. PROVIDE WITH IMMERSION TYPE THERMOSTAT.

OTHER ACCEPTABLE MANUFACTURERS INCLUDE: STATE, LOCHINVAR. REFER TO SPECIFICIATIONS FOR ADDITIONAL REQUIREMENTS.

PUMP SCHEDULE

MARK	MANUFACTURER	MODEL	LOCATION	FLOW (GPM)	HEAD (FT)	RPM	CONNECTIONS INLET	CONNECTIONS OUTLET	ELECTRICAL HP	ELECTRICAL V / Ø / Hz	ELECTRICAL MCA	ELECTRICAL MOCP	REMARKS
RCP-1	TACO	008-BF6	JANITOR 302.1	8	15	3,250	3/4"	3/4"	1/25	120/1/60	--	15	1,2

REMARKS:
1. DOMESTIC HOT WATER RECIRCULATION PUMP.
2. PROVIDE DISCONNECT.

OTHER ACCEPTABLE MANUFACTURERS INCLUDE: WILO, BELL& GOSSETT.

WATER HAMMER ARRESTOR SCHEDULE

MARK	MANUFACTURER	MODEL	LOCATION	PIPE SIZE INCHES	FIXTURE UNITS	REMARKS
HA-A	JOSAM	75001A	XXX	1/2"	1-11	1,2,3
HA-B	JOSAM	75002B	XXX	3/4"	12-32	1,2,3
HA-C	JOSAM	75003C	XXX	1"	33-60	1,2,3
HA-D	JOSAM	75004D	XXX	1"	61-113	1,2,3
HA-E	JOSAM	75005E	XXX	1"	114-154	1,2,3
HA-F	JOSAM	75006F	XXX	1"	155-330	1,2,3

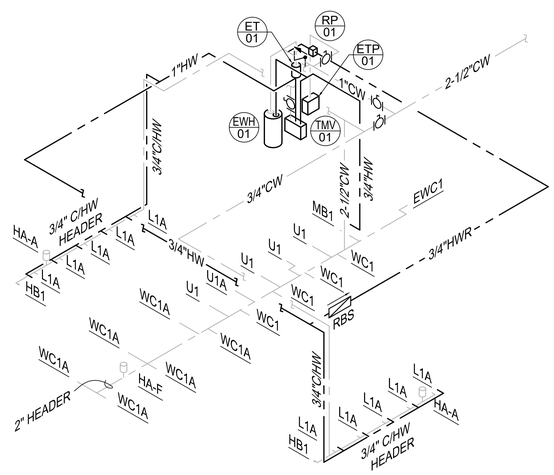
REMARKS:
1. SIZING PER PLUMBING DRAINAGE INSTITUTE (PDI) STANDARD PDI-WH201, LATEST EDITION
2. ASSE 1010 CERTIFIED
3. LEAD FREE

OTHER ACCEPTABLE MANUFACTURERS INCLUDE: JOSAM, SIOUX CHIEF.
REFER TO SPECIFICIATIONS FOR ADDITIONAL REQUIREMENTS.

TRAP PRIMER SCHEDULE

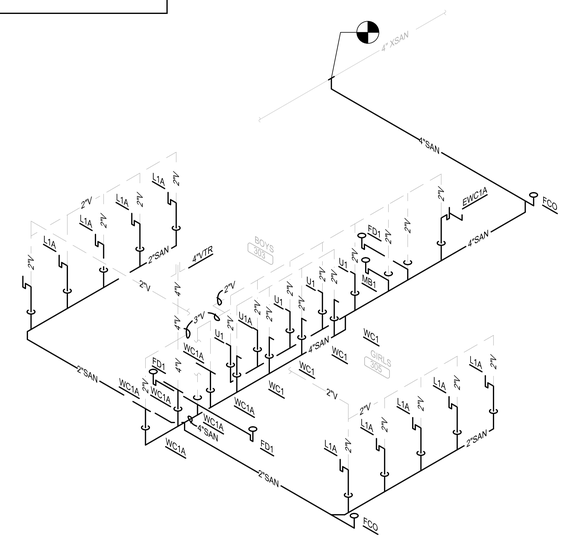
MARK	MANUFACTURER	MODEL	LOCATION	NUMBER OF PORTS	VOLTAGE
ETP-1	PPP	PTS-4	JANITOR 302.1	3	120V

OTHER ACCEPTABLE MANUFACTURERS INCLUDE SIOUX CHIEF OR SUBMIT ALTERNATE MANUFACTURERS FOR APPROVAL TO ENGINEER



B P3.1 DOMESTIC WATER RISER

NONE



A P3.1 WASTE AND VENT RISER

NONE

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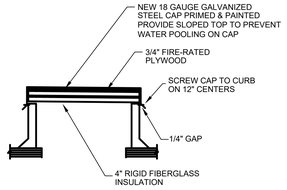
PLUMBING SCHEDULES, DETAILS, AND RISERS

BREATHITT COUNTY PUBLIC SCHOOLS
SEBASTIAN ELEMENTARY SCHOOL - PARTIAL RENOVATION
244 L.B.J. Rd. JACKSON, KY 41339

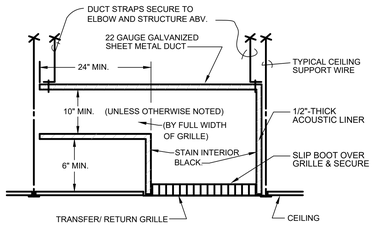
Proj. #: 1901
Date: MAY 28, 2019
Drawn: CT
Checked: NM
Revised:

P3.1



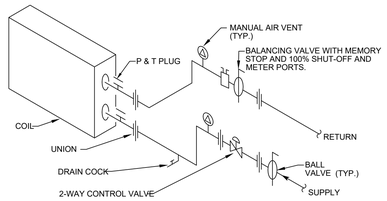
ROOF CURB CAP DETAIL

NO SCALE



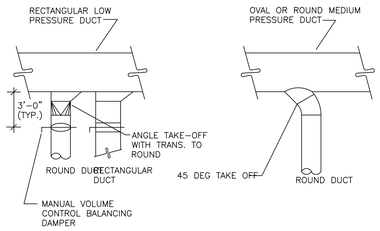
TRANSFER/RETURN AIR BOOT DETAIL

NO SCALE



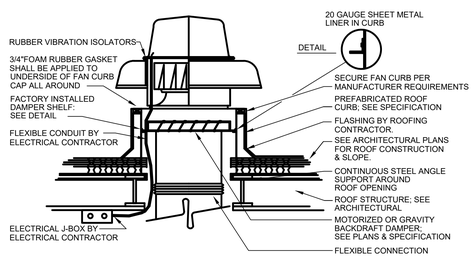
HOT WATER COIL PIPING DETAIL (2-WAY)

NTS (FOR COILS WITH TWO-WAY VALVES. REFER TO DRAWINGS FOR LOCATIONS)



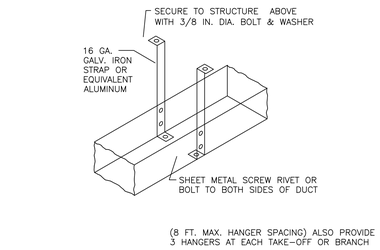
BRANCH TAKE OFF DUCTWORK DETAIL

NTS



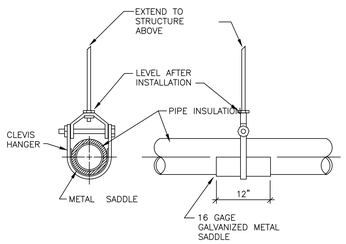
ROOF EXHAUST FAN DETAIL

NO SCALE



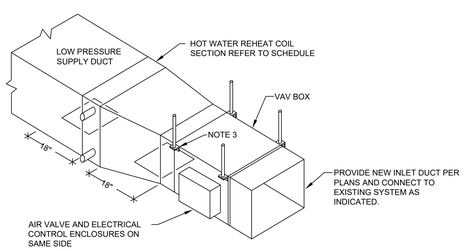
RECTANGULAR DUCT HANGER DETAIL

NTS



INSULATED HOT WATER PIPE HANGER DETAIL

NTS



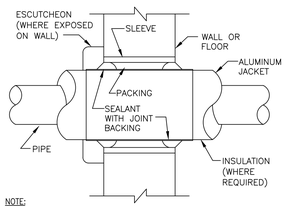
NOTES:
1. PROVIDE ACCESS SPACE FOR ALL SERVICE, INSPECTION, AND ELECTRICAL (NEC) REQUIREMENTS. COORDINATE LOCATION AND ACCESS WITH OTHER TRADES.

2. PROVIDE 8"x8" BOTTOM ACCESS PANELS WITHIN 18" OF COIL FACES BOTH SIDES. IDENTIFY ACCESS TO UNIT WITH COLORED THUMB TACK IN CEILING TILE.

3. ALL THREADED SUPPORT ROD SIZE PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE WASHERS AND LOCK-NUT FASTENERS TOP AND BOTTOM OF STRUCTURAL SUPPORT (TYPICAL).

TYPICAL VAV BOX DETAIL

NTS



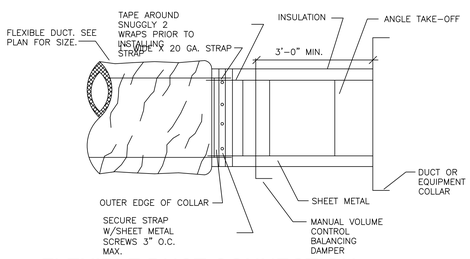
NOTE:

A. THIS DETAIL IS FOR NONFIRE-RATED CONSTRUCTION. PIPE PENETRATIONS IN FIRE-RATED CONSTRUCTION WHERE FIRE DAMPER IS NOT REQUIRED SHALL BE FIRESTOPPED WITH A UL-CLASSIFIED SYSTEM.

B. EXTEND SLEEVE 4" ABOVE FINISHED FLOOR FOR FLOOR SLAB PENETRATIONS. SEAL WATER-TIGHT.

TYPICAL PIPE PENETRATION THROUGH WALLS AND FLOORS DETAIL

NTS



FLEXIBLE DUCT CONNECTION

NTS

GENERAL NOTES

1. REFER TO SPECIFICATIONS AND THE CONTRACT DOCUMENTS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
2. ALL MECHANICAL WORK SHALL BE PERFORMED BY A LICENSED MECHANICAL CONTRACTOR.
3. ALL WORK SHALL BE COORDINATED AND SCHEDULED WITH THE CONSTRUCTION MANAGER (CM) OR GENERAL CONTRACTOR (GC). OTHER TRADES, THE OWNER, AND RELATED UTILITY COMPANIES. ALL WORK SHALL COINCIDE WITH THE CONSTRUCTION PHASING PER THE CONTRACT DOCUMENTS OR CONSTRUCTION DOCUMENTS AND/OR AS MODIFIED BY THE CM/GC AND APPROVED BY THE OWNER AND DESIGN TEAM. THE MECHANICAL CONTRACTOR SHALL COORDINATE AND DEVELOP A PHASING PLAN WHERE ONE IS NOT EXPLICITLY SHOWN AND SHALL ENSURE THAT SAID PHASING PLAN IS APPROVED PRIOR TO PROCEEDING WITH WORK. ANY AND ALL DEMOLITION SHALL NOT PERMIT INTERRUPTION OF SERVICE IN AN OCCUPIED BUILDING UNLESS COORDINATED AND APPROVED.
4. ALL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OR GEOMETRICAL RELATIONSHIPS OF DUCTWORK, PIPING, EQUIPMENT, AND SERVICES. THEY ARE NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, SEQUENCE, DEVICE, OPTION, FITTING, VALVE, OR COMPONENT. CONTRACTOR TO PROVIDE ANY ADDITIONAL DUCT OR PIPING OFFSETS AND/OR FITTINGS, INCLUDING DIVIDED DUCTS AND FLATTENED DUCTS, REQUIRED FOR PROPER INSTALLATION AND TO MAINTAIN CLEARANCES AS ENCOUNTERED IN THE FIELD.
5. THE MECHANICAL CONTRACTOR SHALL OBTAIN A COPY OF THE ENTIRE SET OF CONTRACT DOCUMENTS PRIOR TO BID AND SHALL COORDINATE ROUTING AND INSTALLATION OF MECHANICAL DUCTWORK, PIPING, AND EQUIPMENT WITH ALL OTHER DISCIPLINES AND TRADES INCLUDING BUT NOT LIMITED TO CIVIL, ARCHITECTURAL, STRUCTURAL, FIRE SUPPRESSION, PLUMBING, AND ELECTRICAL.
6. REFER TO THE ENTIRE SET OF CONTRACT DOCUMENTS FOR DETAILS OF CONSTRUCTION AND INSTALLATION REQUIREMENTS. FURNISH ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED FOR COMPLETION AND OPERATION OF A FULLY FUNCTIONAL MECHANICAL SYSTEM AND IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS INCLUDING BUT NOT LIMITED TO THE KENTUCKY BUILDING CODE, ASHRAE, IMC, IECC, SMACNA, AND NFPA.
7. THE EXACT LOCATIONS OF ALL EQUIPMENT, DUCTS, DIFFUSERS, ETC. SHALL BE COORDINATED WITH ALL OTHER TRADES. CEILING MOUNTED LIGHTING AND ELECTRICAL REQUIREMENTS TAKE PRECEDENCE OVER CEILING MOUNTED MECHANICAL EQUIPMENT. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING GRID AND LIGHTING LAYOUT FOR COORDINATION OF FINAL DIFFUSER LOCATIONS.
8. THE MECHANICAL DRAWINGS REFLECT A "BASIS OF DESIGN" HVAC SYSTEM THAT HAS BEEN DESIGNED AROUND SPECIFIC PRODUCTS/MANUFACTURER'S (SEE SCHEDULES). THE SELECTION OF A "BASIS OF DESIGN" HAS INFLUENCED THE DESIGNS OF OTHER TRADES (ELECTRICAL, STRUCTURAL, ETC.). THE CONTRACTOR MAY USE "NON-BASIS OF DESIGN" PRODUCTS/MANUFACTURER'S AS PERMITTED BY THE SPECIFICATIONS AND/OR CONTRACT DOCUMENTS. COORDINATION OF ALL MODIFICATIONS TO EACH DISCIPLINE WHICH RESULT FROM THE USE OF "NON-BASIS OF DESIGN" EQUIPMENT OR MATERIALS SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR. IF "NON-BASIS OF DESIGN" MANUFACTURERS, SIZES, OR MODEL NUMBERS ARE BID, SUBMITTED, OR INSTALLED; IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR AND ALL OF HIS OR HER SUBCONTRACTORS TO COORDINATE ALL DIFFERENCES PRIOR TO BID. ALL COSTS OF ALL TRADES ASSOCIATED WITH THE USE OF "NON-BASIS OF DESIGN" EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR AND SHALL BE INCLUDED IN THE BID. SUBSEQUENTLY, ANY ADDITIONAL COST BORE BY THE ENGINEER (MECHANICAL, ELECTRICAL, ETC) TO ACCOMMODATE "NON-BASIS OF DESIGN" EQUIPMENT SHALL BE BORE BY THE CONTRACTOR AND PAID TO THE ENGINEER OF RECORD DURING SUBMITTALS.
9. EQUIPMENT OR MATERIALS AS ALLOWED BY THE SPECIFICATIONS AND/OR CONTRACT DOCUMENTS, WHICH ARE INSTALLED AND SUBSEQUENTLY VIEWED UNSATISFACTORY BY THE OWNER AND/OR ENGINEER WITHIN THE WARRANTY PERIOD, SHALL BE REMOVED COMPLETELY BY THE CONTRACTOR AND REPLACED WITH THE ORIGINAL DESIGN OR CORRECTED AS DIRECTED BY THE ENGINEER WITHOUT ADDITIONAL COST TO THE OWNER.
10. CONTRACTOR SHALL VISIT THE JOB SITE, FIELD VERIFY FIT, COORDINATE WITH OTHER TRADES, AND BECOME FAMILIAR WITH ALL PROJECT CONDITIONS PRIOR TO FABRICATING DUCTWORK, INSTALLING EQUIPMENT, ETC. NO ALLOWANCES WILL BE MADE FOR LACK THEREOF.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND COSTS FOR ALL PERMITS, TESTING, AND INSPECTIONS.
12. CONTRACTOR TO REMOVE UNUSED/ABANDONED HVAC SYSTEMS AND EQUIPMENT UNLESS INDICATED OTHERWISE ON THE CONTRACT DOCUMENTS.
13. COORDINATE WITH THE CONTRACT DOCUMENTS AND PROVIDE TEMPORARY HEAT AS REQUIRED.
14. INFORMATION AND COMPONENTS SHOWN ON RISER DIAGRAMS OR DETAILS BUT NOT SHOWN ON PLANS AND VICE VERSA, SHALL BE PROVIDED AS IF REQUIRED BY BOTH.
15. THE ENTIRE MECHANICAL INSTALLATION SHALL BE AS REQUIRED TO MAINTAIN FIRE/SMOKE RATINGS AND/OR "UL" ASSEMBLY RATINGS AS REQUIRED BY THE CONTRACT DOCUMENTS AND AS SHOWN ON THE ARCHITECTURAL AND MECHANICAL DRAWINGS. SEAL AROUND ALL PENETRATIONS THROUGH ALL FIRE/SMOKE SEPARATIONS AND/OR "UL" RATED ASSEMBLIES. COORDINATE ALL PENETRATIONS WITH THE CONSTRUCTION MANAGER AND/OR GENERAL CONTRACTOR. PROVIDE ADDITIONAL FIRE DAMPERS, SMOKE DETECTORS, AND SMOKE DAMPERS (INCLUSIVE OF WIRING) AS REQUIRED FOR A FULLY FUNCTIONAL AND CODE COMPLIANT SYSTEM.
16. ALL DUCTWORK, PIPING, AND MECHANICAL EQUIPMENT SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE. NO OTHER TRADES, I.E. ELECTRICAL, CEILING, PLUMBING, ETC., SHALL BE SUSPENDED, HUNG, OR SUPPORTED FROM MECHANICAL DUCTWORK OR MECHANICAL PIPING.
17. ALL BUILDING PENETRATIONS MUST BE COORDINATED WITH THE ARCHITECT AND SHALL BE FLASHED AND SEALED WEATHER-TIGHT. ALL MATERIALS AND COLORS MUST BE PRE-APPROVED BY THE ARCHITECT. NEW OPENINGS AND/OR PENETRATIONS FOR MECHANICAL ITEMS SHALL BE CUT, SLEEVED, ETC. BY THE MECHANICAL CONTRACTOR. ALL OPENINGS SHALL BE CORE DRILLED OR SAW-CUT. NO "HAMMER DRILLING" WILL BE ALLOWED.
18. ROUTE DUCTWORK AS HIGH AS POSSIBLE TO FACILITATE ACCESS TO ABOVE CEILING SPACE. COORDINATE ROUTING WITH OTHER SERVICES AND TRADES. PROVIDE ADDITIONAL DUCTWORK, OFFSETS, ETC. TO ACCOMMODATE FIELD CONDITIONS AS REQUIRED FOR A COMPLETE AND FUNCTIONING SYSTEM AT NO ADDITIONAL COST. ADDITIONAL OFFSETS REQUIRE APPROVAL FROM THE ENGINEER. ROUTE DUCTWORK BETWEEN JOISTS WHERE POSSIBLE.
19. ALL AIR DEVICES LOCATED ABOVE GYPBOARD OR HARD CEILINGS SHALL HAVE ACCESSIBLE BALANCING DAMPERS.
20. ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED PER SMACNA HVAC DUCT CONSTRUCTION STANDARDS.
21. PROVIDE AND INSTALL DUCT ACCESS DOORS FOR INSPECTION OF ALL INSTALLED FIRE DAMPERS AS DIRECTED BY SMACNA HVAC CONSTRUCTION STANDARDS.
22. MAXIMUM FLEXIBLE DUCT LENGTH SHALL BE 5'-0". ALL FLEXIBLE DUCT SHALL CONFORM TO THE REQUIREMENTS OF UL 181 FLEXIBLE AIR DUCTS. SUPPORT TO ELIMINATE SAGGING AND KINKING. INSULATED FLEXIBLE DUCTS SHALL MEET MINIMUM R-VALUES REQUIRED BY THE IECC.
23. ALL HVAC EQUIPMENT TO BE INSTALLED PER MANUFACTURER'S REQUIREMENTS. UTILIZE FACTORY FILTERS DURING CONSTRUCTION.
24. THE MECHANICAL CONTRACTOR SHALL BALANCE SYSTEM TO AIR QUANTITIES INDICATED ON PLANS AND PROVIDE OWNERS REPRESENTATIVES WITH COMPLETE NEBB/AABC BALANCE REPORT. THE MECHANICAL CONTRACTOR SHALL PROVIDE AS MANY ADDITIONAL SITE VISITS BY THE LICENSED TAB CONTRACTOR AS REQUIRED BY THE ENGINEER FOR A COMPLETE AND FUNCTIONING AND APPROVED SYSTEM IN COMPLIANCE WITH THE CONTRACT DOCUMENTS.
25. ALL RECTANGULAR 90 DEG. AND 45 DEG. ELBOWS SHALL HAVE TURNING VANES.
26. PROVIDE A MANUAL VOLUME DAMPER AT ALL BRANCH TAKE-OFFS ON SUPPLY, RETURN, AND OUTSIDE AIR DUCTWORK AT NO ADDITIONAL COST. PROVIDE A MAIN RETURN DAMPER UPSTREAM OF OUTSIDE AIR CONNECTIONS IN RETURN AIR PLENUM DESIGNS. COORDINATE ADDITIONAL MANUAL VOLUME DAMPER LOCATIONS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM WITH THE ENGINEER PRIOR TO ORDER, FABRICATION, OR INSTALLATION.
27. ALL DUCT DIMENSIONS SHOWN ARE INTERIOR "CLEAR" DUCT DIMENSIONS.
28. MAINTAIN 10'-0" MINIMUM CLEARANCE BETWEEN OUTDOOR AIR INTAKES AND EXHAUST, PLUMBING VENTS, ETC. AND/OR AS REQUIRED BY IMC, WHICHEVER IS MORE STRINGENT.
29. MAINTAIN 10'-0" MINIMUM CLEARANCE FROM EDGE OF ROOFTOP EQUIPMENT TO ROOF EDGE UNLESS RAILING OR PARAPET OF SUFFICIENT HEIGHT IS TO BE PROVIDED. REFER TO ARCHITECTURAL.
30. ALL CONTROL WIRING AND CONDUIT SHALL COMPLY WITH NEC.
31. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR AND DRAWINGS FOR CONNECTIONS AND LOCATION OF ALL EQUIPMENT.
32. CONTRACTOR SHALL PROVIDE ADDITIONAL OFFSETS OR BENDS IN PIPING AS REQUIRED TO ALLOW FOR EXPANSION AND CONTRACTION DUE TO TEMPERATURE CHANGES AND DIFFERENCES IN THE AMBIENT TEMPERATURE WHEN PIPING AND EQUIPMENT IS INSTALLED.
33. PROVIDE MANUAL AIR VENTS AT HIGH POINTS AND DRAIN VALVES AT LOW POINTS OF ALL HYDRONIC PIPING. AUTOMATIC AIR VENTS SHALL BE INSTALLED WHERE INDICATED IN THE CONTRACT DOCUMENTS AND/OR AS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM.
34. MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE ARCHITECTURAL PLANS AND GC/CM ALL AREAS WHERE MECHANICAL / ELECTRICAL EQUIPMENT AND DEVICES ARE INDICATED TO BE DEMOLISHED AND THE REQUIRED REPAIR AND RESTORATION OF ALL WALLS, ROOFS, CEILINGS, FLOORS, ETC. SHALL BE INCLUDED IN THEIR BID.
35. ALL ROOF PENETRATIONS SHALL BE IN COMPLIANCE WITH THE ROOFING MANUFACTURER'S GUIDELINES AND THE AMERICAN ROOFING COUNCIL. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE AS NECESSARY TO MAINTAIN ALL WARRANTIES.
36. STRUCTURAL MEMBERS SHALL NOT BE CUT OR COMPROMISED IN ANY WAY.
37. DO NOT BLOCK ACCESS TO HVAC OR ELECTRICAL EQUIPMENT. DO NOT INSTALL PIPING, DUCTWORK, OR EQUIPMENT OVER ELECTRICAL PANELS/SWITCHGEAR OR THE 42" CLEARANCE IN FRONT OF THESE ELECTRICAL ITEMS. COORDINATE ADDITIONAL REQUIREMENTS WITH NEC.

MECHANICAL LEGEND

HVAC

SYMBOL	DESCRIPTION
	SUPPLY AIR DIFFUSER (4-WAY, 3-WAY, 2-WAY, 1-WAY)
	SUPPLY AIR DIFFUSER (ROUND)
	RETURN GRILLES
	EXHAUST GRILLES
	FLEXIBLE CONNECTION
	SUPPLY AIR DUCT (UP,- DOWN)
	RETURN AIR DUCT (UP,- DOWN)
	EXHAUST AIR DUCT (UP,- DOWN)
A.D.	ACCESS DOOR
D	RECTANGULAR TO ROUND DUCTWORK TRANSITION
	RECTANGULAR TO RECTANGULAR TRANSITION
R D	DUCT CHANGE IN ELEVATION; R= RISE, D= DROP
X-XX / XXX	SUPPLY AIR DEVICE (S-1) / AIRFLOW (CFM)
XX-XX	EQUIPMENT IDENTIFICATION
X / MX.XX	DETAIL NO./ SHEET NO.
X / MX.XX	SECTION NO / SHEET NO.
	ELBOW WITH TURNING VANES
	ELBOW ROUND
	CONNECT NEW TO EXISTING
	INDICATES AIR FLOW DIRECTION
GV	GATE VALVE (HORIZ. - VERT.)
GLV	GLOBE VALVE (HORIZ. - VERT.)
BFV	BUTTERFLY VALVE (HORIZ. - VERT.)
BV	BALL VALVE (HORIZ. - VERT.)
2-WAY	CONTROL VALVE (2-WAY, 3-WAY)
	TRIPLE-DUTY VALVE
P	PRESSURE GAUGE
T	TEMPERATURE GAUGE / THERMOMETER
PR	PRESSURE REDUCING VALVE
	STRAINER
	CHECK VALVE
	FLOW INDICATOR
	BALANCE VALVE
	EXISTING PIPING/DUCT/EQUIPMENT TO REMAIN
	EXISTING PIPING/DUCT/EQUIPMENT TO BE REMOVED
	CAP OR PLUG
	PIPE DOWN, PIPE UP
T	ROOM THERMOSTAT OR DUCT STAT
XX	INDICATED TAG OR SHEET NOTE
XX	DEMOLITION NOTE
XXX	REVISION TAG
	EXTENT OF DEMOLITION
	UNION
EA	EXHAUST AIR DUCTWORK
HWR	HOT WATER RETURN PIPING
HWS	HOT WATER SUPPLY PIPING
OA	OUTSIDE AIR DUCTWORK
RA	RETURN AIR DUCTWORK
SA	SUPPLY AIR DUCTWORK

AIR DEVICE SCHEDULE

MARK	MANUFACTURER	MODEL	MAX CFM	MODULE	AIR PATTERN	NECK SIZE	REMARKS
S-1	KRUEGER	1400	360	24x24	4-WAY	10"Ø	ALL
S-2	KRUEGER	1400	500	24x24	4-WAY	12"Ø	ALL
S-3	KRUEGER	1400	360	24x24	3-WAY	10"Ø	ALL
R-1	KRUEGER	S80	-	24x24	-	22x22	ALL
E-1	KRUEGER	S80	400	24x24	-	22x22	ALL
E-2	KRUEGER	S80	75	12x12	-	10x10	ALL

1. LAY-IN TYPE.
2. COORDINATE ALL DIFFUSER AND GRILLE LOCATIONS WITH REFLECTED CEILING PLANS PRIOR TO INSTALLATION. LIGHTING HAS PRIORITY.
3. PROVIDE WITH WHITE FINISH.
4. PROVIDE WITH ROUND NECK OR APPROPRIATE SQUARE TO ROUND ADAPTER.
5. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

*KRUEGER USED AS BASIS OF DESIGN, OTHER ACCEPTABLE MANUFACTUERS INCLUDE: PRICE, TITUS, ETC.

EXHAUST FAN SCHEDULE

MARK	MANUFACTURER*	MODEL	CFM	S.P. W.G.	FAN RPM	SONES	DRIVE	MOTOR HP	MOTOR VOLT	MOTOR PH	REMARKS
EF-01	GREENHECK	G-123-B	900	0.5	1140	8	DIRECT	1/6	115	1	ALL

1. PROVIDE WITH UNIT MOUNTED DISCONNECT.
2. PROVIDE WITH UNIT MOUNTED SPEED CONTROLLER.
3. PROVIDE WITH APPROPRIATE BACKDRAFT DAMPER.
4. ROOF MOUNTED DOWNBLAST EXHAUST FAN.
5. EXHAUST FAN CONTROLLED BY OCCUPANCY SCHEDULE/SENSOR.
6. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

*GREENHECK MODELS USED AS BASIS OF DESIGN. OTHER ACCEPTABLE MANUFACTURERS INCLUDE COOK, ACME, ETC.

VARIABLE AIR VOLUME BOX SCHEDULE

MARK	MANUFACTURER	MODEL	INLET (IN)	COOLING DESIGN CFM	COOLING DESIGN APD (IN)	COOLING MINIMUM CFM	COOLING INLET VELOCITY FT/MIN	COOLING MAX. INLET SP (IN WC)	HEATING DESIGN CFM	HEATING EAT °F	HEATING LAT °F	HEATING COIL CAPACITY MBH	HEATING ROOM HEAT LOSS MBH	NC DISCH / RAD	REMARKS
VAV-01	TRANE	VCWF	10	800	0.26	320	1467	0.75	400	55	105	21.69	16.06	22/25	ALL
VAV-02	TRANE	VCWF	12	1200	0.35	360	1528	0.75	600	55	105	32.53	24.09	22/25	ALL
VAV-03	TRANE	VCWF	6	300	0.16	90	1528	0.75	150	55	105	8.13	6.02	32/27	ALL
VAV-04	TRANE	VCWF	12	1200	0.35	360	1528	0.75	600	55	105	32.53	24.09	22/25	ALL

1. PROVIDE WITH UNIT MOUNTED 120V TO 24V TRANSFORMER FOR CONTROLS.
2. PROVIDE WITH FACTORY MOUNTED FUSED DISCONNECT.
3. NC LEVELS SHALL NOT EXCEED THOSE LISTED ON THE SCHEDULE.
4. PROVIDE WITH 1" FOIL FACED LINER.
5. REFER TO DETAILS FOR CONNECTIONS.
6. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

TRANE USED AS BASIS OF DESIGN. OTHER ACCEPTABLE MANUFACTURERS INCLUDE: DAIKIN, YORK, ETC.

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MECH. LEGEND, DETAILS, GENERAL NOTES & SCHEDULES

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Proj. #: 1901
Date: MAY 28, 2019
Drawn: TF/JC
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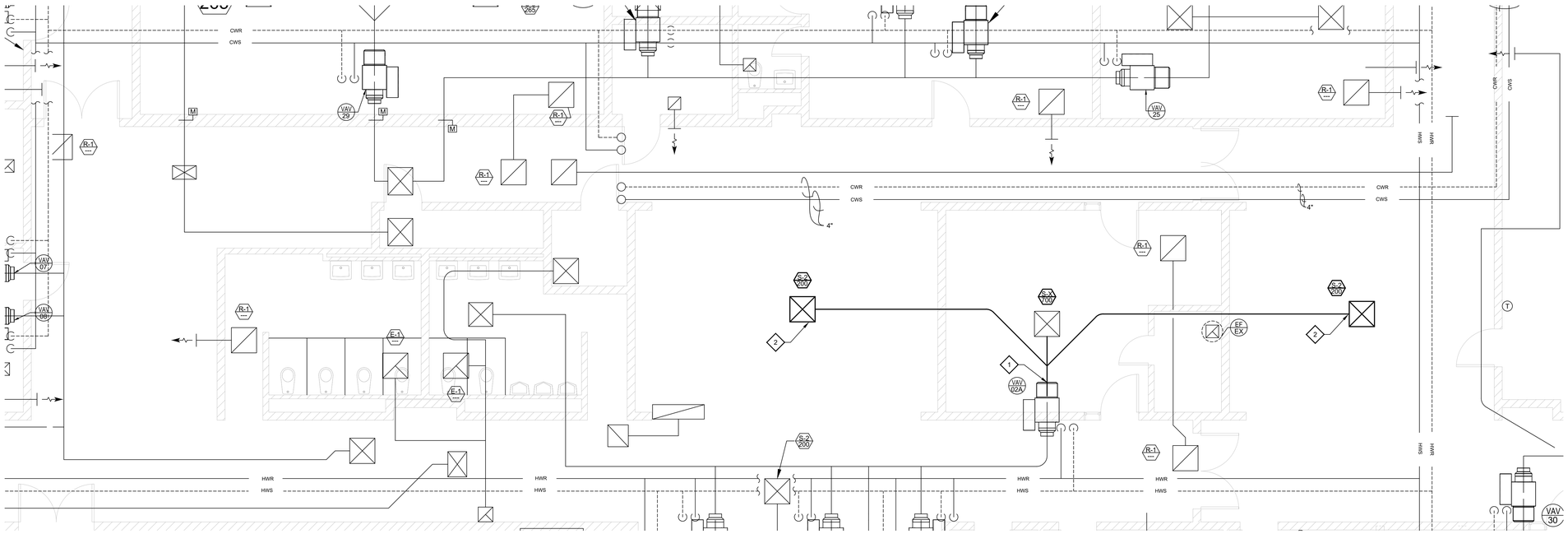
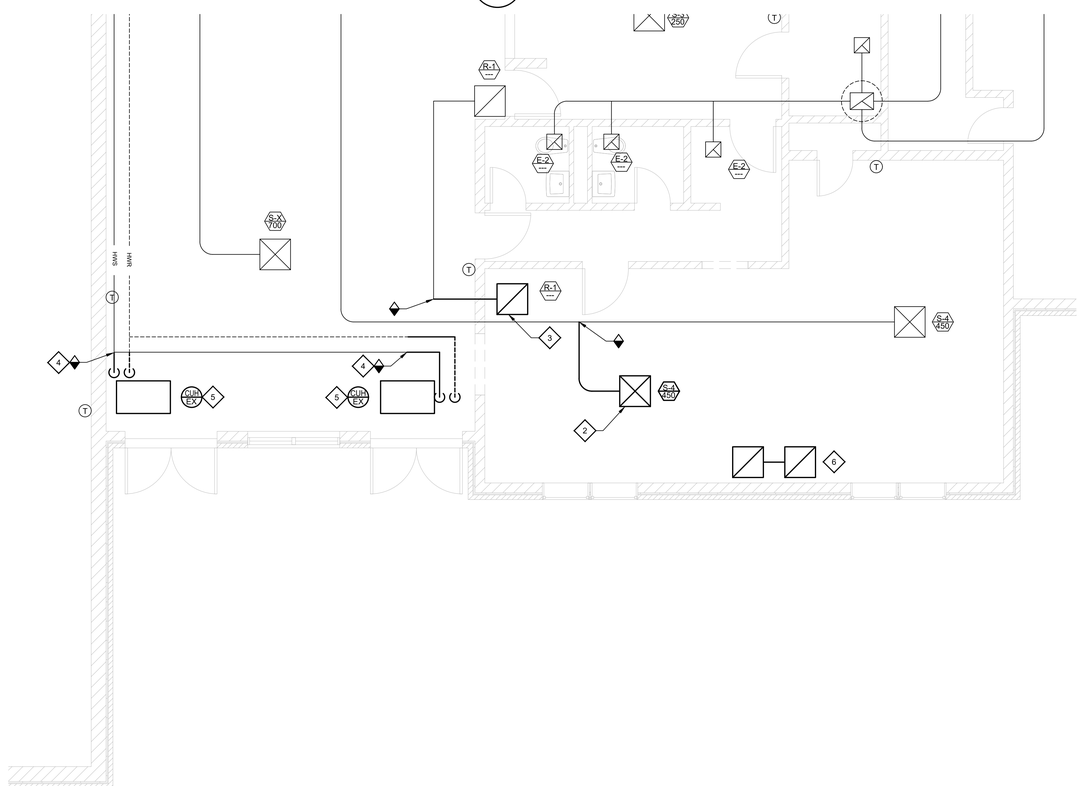


B MD1.1 AREA 'B' DEMOLITION PLAN - MECHANICAL
SCALE: 1/4" = 1'-0"



A MD1.1 AREA 'A' DEMOLITION PLAN - MECHANICAL
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. REFER TO SHEET M0.1 FOR GENERAL NOTES, LEGEND, AND DETAILS.

DEMO NOTES

1. REMOVE AND DISPOSE OF EXISTING DUCTWORK TO THIS LOCATION. REFER TO NEW WORK PLAN ON SHEET M1.1 FOR NEW DUCT LAYOUT.
2. DIFFUSER TO BE RELOCATED IN NEW CEILING PLAN. REFER TO NEW WORK PLAN ON SHEET M1.1.
3. RETURN AIR GRILLE TO BE RELOCATED IN NEW CEILING PLAN. REFER TO NEW WORK PLAN ON SHEET M1.1.
4. REMOVE PIPING AS NEEDED TO RELOCATE CUH AND RECONNECT. REFER TO NEW PLAN ON M1.1
5. RELOCATE EXISTING CABINET UNIT HEATER. REFER TO NEW WORK PLAN ON M1.1.
6. REMOVE AIR DEVICES AND ASSOCIATED DUCT.

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ENLARGED DEMOLITION PLANS - MECHANICAL

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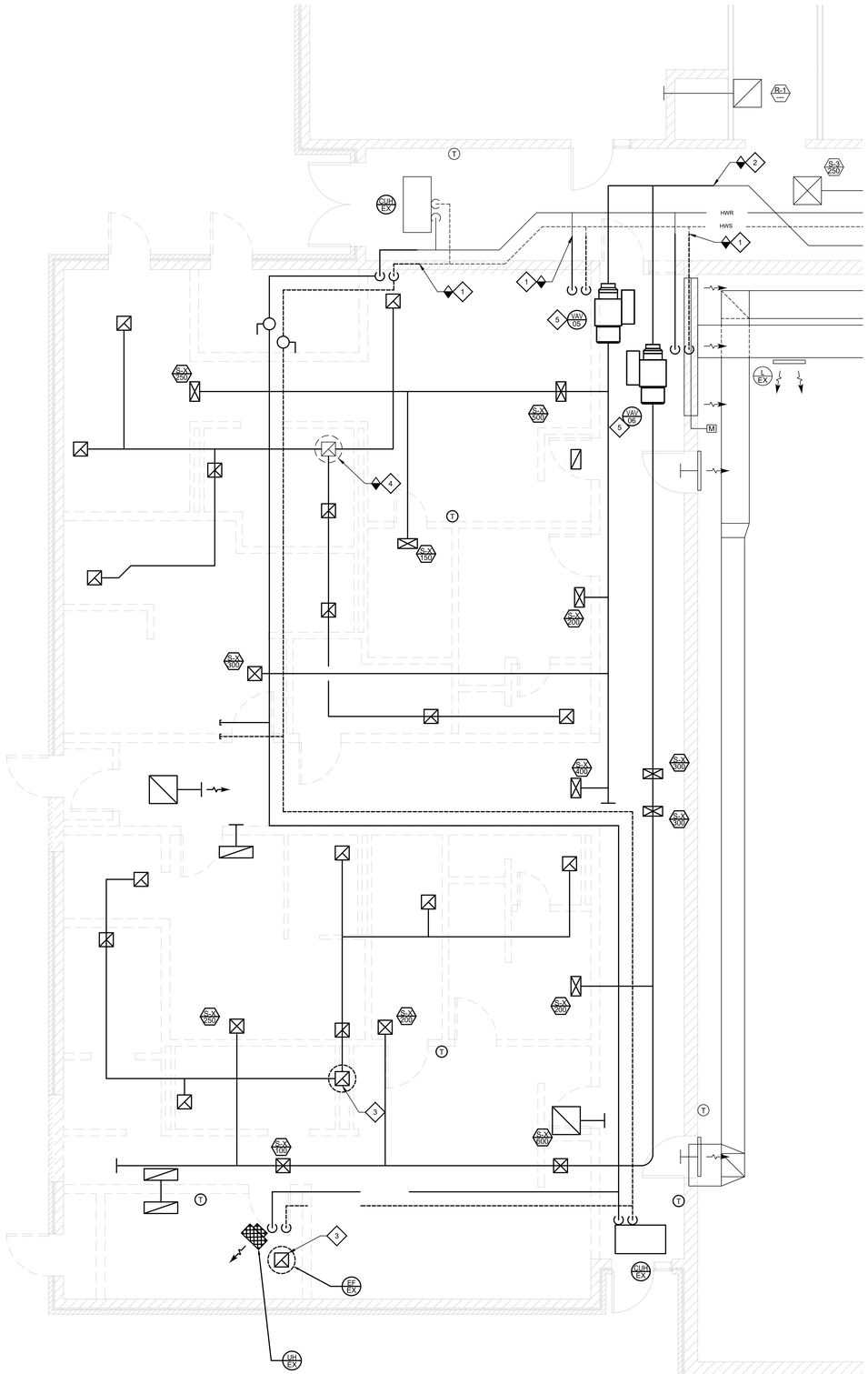

A
MD1.2
AREA 'C' DEMOLITION PLAN - MECHANICAL
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. REFER TO SHEET M0.1 FOR GENERAL NOTES, LEGEND, AND DETAILS.

DEMO NOTES

1. REMOVE AND CAP EXISTING HYDRONIC SUPPLY AND RETURN PIPING TO THIS POINT. REFER TO NEW WORK PLAN ON SHEET M1.2.
2. REMOVE AND DISPOSE OF EXISTING DUCTWORK AND AIR DEVICES BACK TO THIS LOCATION. REFER TO NEW WORK PLAN ON SHEET M1.1 FOR NEW DUCT LAYOUT.
3. REMOVE AND DISPOSE OF EXHAUST DUCT UP TO ROOF. SEAL DUCT OPENING AT ROOF. PROVIDE INSULATED ROOF CURB CAP FOR EXHAUST FANS. REFER TO ROOF CURB CAP DETAIL ON SHEET M0.1.
4. REMOVE AND DISPOSE OF ALL EXHAUST DUCT AND EXHAUST RAN ON ROOF. EXISTING CURB TO REMAIN.
5. REMOVE EXISTING VAV BOX, THEN TURN OVER TO OWNER.

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ENLARGED DEMOLITION PLAN - MECHANICAL

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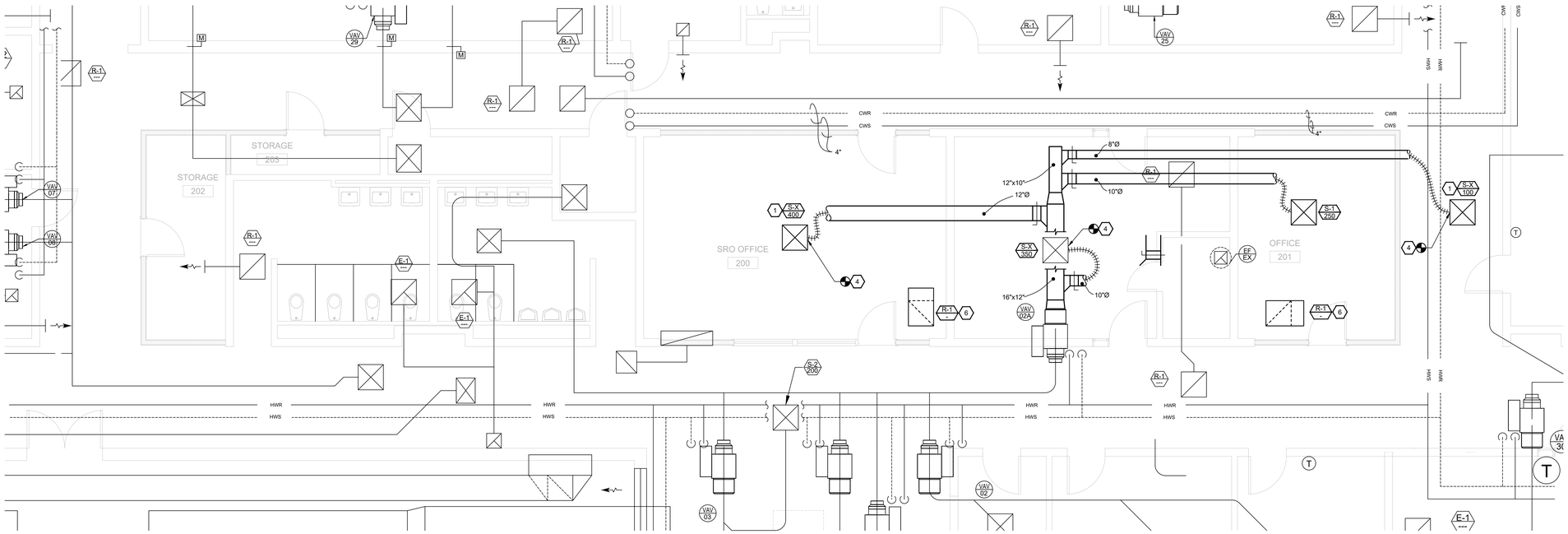
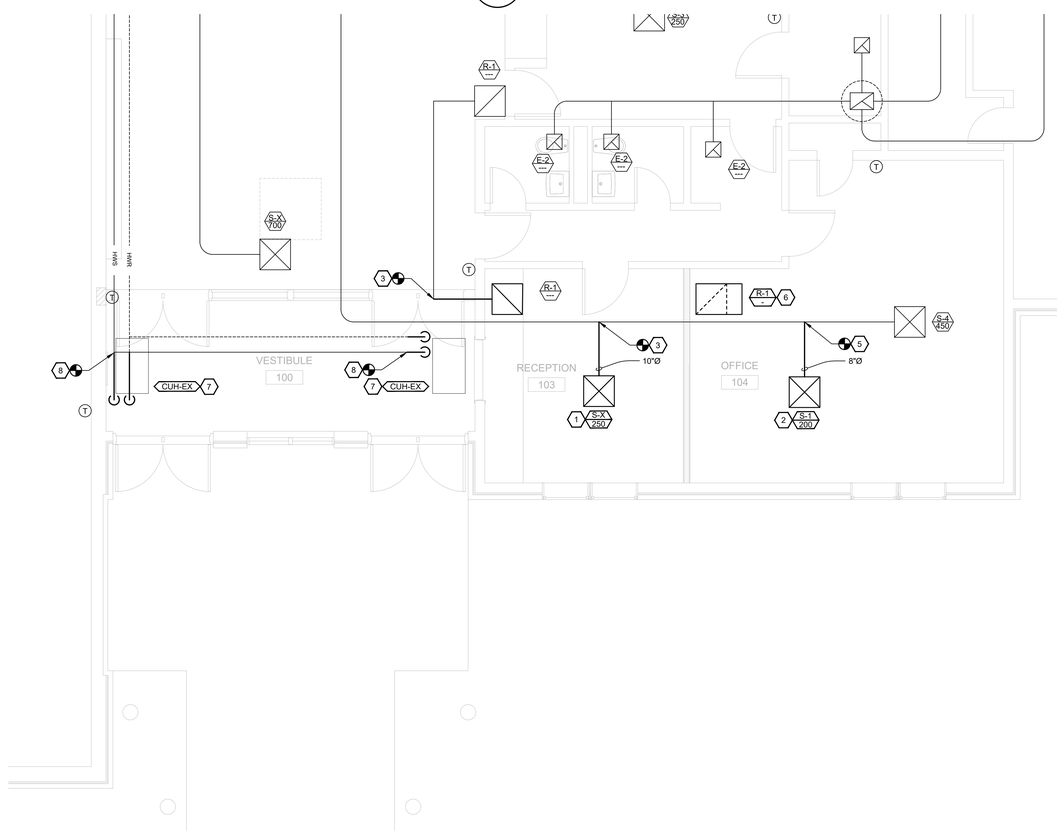


B
M1.1

AREA 'B' PLAN - HVAC

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



A
M1.1

AREA 'A' PLAN - HVAC

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

GENERAL NOTES

1. REFER TO SHEET M0.1 FOR GENERAL NOTES, LEGEND, AND DETAILS.

SHEET NOTES

1. RELOCATE EXISTING DIFFUSER TO MATCH NEW CEILING GRID. RE-BALANCE AIRFLOW AS SPECIFIED. COORDINATE WITH ARCHITECT'S REFLECTED CEILING PLANS.
2. INSTALL NEW SUPPLY DIFFUSER AND BALANCE TO 200 CFM. REFER TO SCHEDULES FOR ADDITIONAL INFORMATION.
3. PROVIDE ALL NECESSARY DUCT FITTINGS TO RELOCATE DIFFUSER IN CEILING.
4. CONNECT NEW DUCTWORK TO EXISTING DIFFUSER. RE-BALANCE AIRFLOW AS SPECIFIED.
5. CONNECT NEW DUCTWORK TO EXISTING DUCTWORK MAIN. PROVIDE ALL NECESSARY FITTINGS TO CONNECT NEW DUCT TO EXISTING.
6. INSTALL A RETURN AIR GRILLE WHERE INDICATED. GRILLE SHALL BE PROVIDED WITH A SHEET METAL PLENUM. PLENUM SHALL EXTEND A MINIMUM OF 10" BEHIND GRILLE. INTERIOR OF PLENUM TO BE PRINTED MATTE BLACK. REFER TO DETAILS AND SCHEDULES FOR ADDITIONAL REQUIREMENTS.
7. EXISTING CABINET UNIT HEATER. CONTRACTOR TO RELOCATE UNIT AS INDICATED. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN. CONFIRM UNIT IS IN PROPER WORKING CONDITION BEFORE AND AFTER RELOCATION.
8. PROVIDE ALL REQUIRED PIPING TO RECONNECT HOT WATER SUPPLY AND RETURN TO CABINET UNIT HEATER.

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ENLARGED FLOOR PLANS - MECHANICAL

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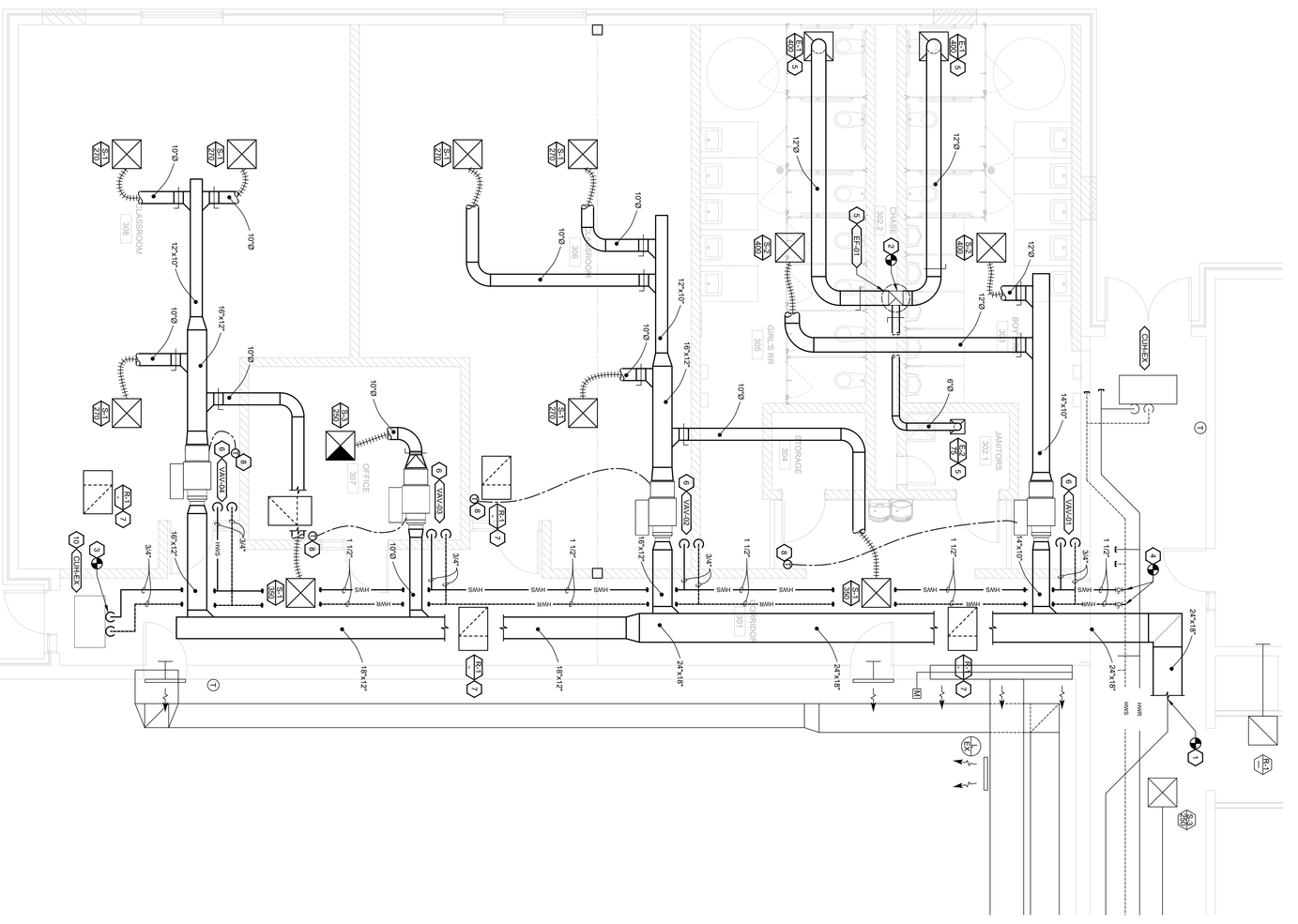

A M1.2 AREA 'C' PLAN - HVAC

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

GENERAL NOTES

1. REFER TO SHEET M0.1 OR GENERAL NOTES, LEGEND, AND DETAILS.
2. WHERE WALLS EXTEND TO DECK, CONTRACTOR SHALL PROVIDE FIRE STOPPING. WALL TO CONDITIONED CORRIDOR 301, OPENING MUST BE MINIMUM OF 192 SQUARE INCHES CLEAR.

SHEET NOTES

1. CONNECT NEW SUPPLY DUCTWORK TO EXISTING DUCTWORK. REFER TO DETAILS. VERIFY SIZE PRIOR TO FABRICATION OF NEW DUCT. REFER TO DEMOLITION SHEET M0.1 FOR CONTINUATION.
2. ROUTE NEW 14"x14" EXHAUST AIR DUCT UP TO NEW ROOF MOUNTED EXHAUST FAN. PROVIDE ALL TRANSITIONS AND FITTINGS TO CONNECT TO EXHAUST FAN.
3. CONNECT NEW HYDRONIC PIPING TO EXISTING CEILING HEATER.
4. CONNECT NEW 1 1/2" HOT WATER SUPPLY AND HOT WATER RETURN HYDRONIC PIPING TO EXISTING HYDRONIC PIPING AT THIS LOCATION. PROVIDE ALL NECESSARY FITTINGS.
5. INSTALL A ROOF MOUNTED EXHAUST FAN PER MANUFACTURER'S INSTRUCTIONS WHERE INDICATED. ROUTE POWER WIRING THROUGH ROOF. REFER TO ELECTRICAL INFORMATION. INSTALL ON EXISTING ROOF CURB. FIELD VERIFY EXISTING SIZE.
6. INSTALL A VARIABLE AIR VOLUME BOX WHERE INDICATED. REFER TO VAV BOX SCHEDULE AND DETAILS FOR ADDITIONAL INFORMATION.
7. INSTALL A RETURN AIR GRILLE WHERE INDICATED. GRILLE SHALL BE PROVIDED WITH SUFFICIENT DEPTH TO ACCOMMODATE PLENUM. EXTEND A MINIMUM OF 10" BEHIND GRILLE. INTERIOR OF PLENUM TO BE PAINTED MATTE BLACK. REFER TO DETAILS AND SCHEDULES FOR ADDITIONAL REQUIREMENTS.
8. INSTALL A WALL MOUNTED THERMOSTAT AT 48" A.F.F., WHERE INDICATED. ROUTE CONTROL WIRING IN CONDUIT BACK TO UNIT SERVED. CONFIRM PROPER UNIT CONTROL.
9. INSTALL AN EXHAUST GRILLE WHERE INDICATED. GRILLE SHALL BE PROVIDED WITH SUFFICIENT DEPTH TO ACCOMMODATE PLENUM. SHALL EXTEND A MINIMUM OF 10" BEHIND GRILLE. INTERIOR OF PLENUM TO BE PAINTED MATTE BLACK. REFER TO DETAILS AND SCHEDULES FOR ADDITIONAL REQUIREMENTS.
10. CONFIRM UNIT IS IN WORKING CONDITION UPON COMPLETION OF WORK IN THIS AREA.

M1.2

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ENLARGED FLOOR PLANS - MECHANICAL

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STATE OF KENTUCKY NICHOLAS C. MARGUM 24582 PROFESSIONAL ENGINEER
MAY 24, 2019

ELECTRICAL LEGEND

LIGHTING

SYMBOL	DESCRIPTION
	SURFACE MOUNTED LUMINAIRE (NORMAL & EMERGENCY)
	RECESSED LUMINAIRE (NORMAL & EMERGENCY)
X X	WALL MOUNTED LUMINAIRE (NORMAL AND EMERGENCY)
X X	RECESSED LUMINAIRE (NORMAL AND EMERGENCY)
X X	SURFACE MOUNTED LUMINAIRE (NORMAL AND EMERGENCY)
	LINEAR PENDANT LUMINAIRE (NORMAL AND EMERGENCY)
	WALL BRACKET LUMINAIRE (NORMAL AND EMERGENCY)
	INDUSTRIAL STRIP LUMINAIRE (NORMAL AND EMERGENCY)
X X	EMERGENCY EXIT SIGN - SINGLE FACE WITH ARROWS AS INDICATED WALL AND CEILING MOUNTED
X X	EMERGENCY EXIT SIGN - DOUBLE FACE
X-LC	LIGHTING CONTROL ROOM TAG
PC	PHOTOCELL
EPP	EMERGENCY POWER PACK
BR	EMERGENCY BYPASS RELAY (UL924)
BP	BATTERY PACK
LPP	LIGHTING CONTROL POWER PACK
PLP	PLUG LOAD CONTROL PACK
C	CONTACTOR, POLES AS REQUIRED
DL	DAYLIGHT SENSOR
DT	DUAL TECHNOLOGY LOW VOLTAGE CORNER MOUNTED OCCUPANCY SENSOR WITH POWER PACK AND CEILING MOUNT BRACKET. MOUNT IN CEILING TILE UNLESS OTHERWISE NOTED.
CS	DUAL TECHNOLOGY LOW VOLTAGE CEILING MOUNTED, 360° OCCUPANCY SENSOR.
	LIGHTING CONTROL PANEL
$X	LIGHT SWITCH - SUBSCRIPT INDICATES THE FOLLOWING : 3 - 3 WAY, 4 - 4 WAY, K - KEY OPERATED, D - DIMMER, OS - LINE VOLTAGE OCCUPANCY SENSOR, L - LOW VOLTAGE, M - MANUAL MOTOR STARTER W/ HANDLE GUARD KIT AND PADLOCK. SEE LIGHTING CONTROL DIAGRAM SHEET FOR OTHER SUBSCRIPTS.

ONE LINE DIAGRAM

SYMBOL	DESCRIPTION
XXX	CIRCUIT BREAKER
GF	GROUND FAULT PROTECTION
VFD	VARIABLE FREQUENCY DRIVE
SPD	SURGE PROTECTION DEVICE
M	
	NON FUSED SWITCH
XXX	FUSED SWITCH
XXX	FUSE
	RELAY (NORMALLY OPEN)
XXX	PANEL
	GROUND

POWER

SYMBOL	DESCRIPTION
X	TAMPER RESISTANT DUPLEX RECEPTACLE - SUBSCRIPT INDICATES THE FOLLOWING : C - ABOVE COUNTER, CM - CEILING MOUNTED, E - EMERGENCY, G - GROUND FAULT CIRCUIT INTERRUPTER, GB - BLANK FACE GROUND FAULT INTERRUPT, IG - ISOLATED GROUND, P - PLUG LOAD CONTROL, WP - WEATHER PROOF
X	TAMPER RESISTANT QUADRUPLEX RECEPTACLE
X	TAMPER RESISTANT SINGLE RECEPTACLE
	JUNCTION BOX
	DISCONNECT SWITCH (SIZE/FUSING/POLES/NEMA - OPTIONAL)
	MOTOR
	CONDUIT TURNED DOWN
	CONDUIT TURNED UP
	CONDUIT WITH END CAP
	EQUIPMENT CONNECTION
	CONDUIT CONTINUATION
X X	SURFACE MOUNTED PANELBOARD/DISTRIBUTION PANEL; X - INDICATES IDENTIFICATION
X	FLUSH MOUNTED PANELBOARD; X - INDICATES IDENTIFICATION
X X	EXISTING SURFACE MOUNTED PANELBOARD/DISTRIBUTION PANEL; X - INDICATES IDENTIFICATION
X	EXISTING FLUSH MOUNTED PANELBOARD; X - INDICATES IDENTIFICATION
	LOW-VOLTAGE CIRCUIT WITH CONDUCTOR TYPES AS REQUIRED BY THE MANUFACTURER FOR THE PARTICULAR SYSTEM.
	UTP LIGHTING CONTROL CABLE
	CIRCUIT CONNECTED TO EMERGENCY POWER
	SURFACE MOUNTED RACEWAY
4#8,1#10,1"C XX-XX	BRANCH CIRCUIT HOMERUN TO PANELBOARD. THE NUMBER OF TICK MARKS INDICATES THE NUMBER OF CONDUCTORS. LONG TICK MARKS REPRESENT UNGROUNDED CONDUCTORS. SHORT TICK MARKS REPRESENT GROUNDED CONDUCTORS (NEUTRAL). A GROUNDING CONDUCTOR (GROUND) SHALL BE INSTALLED WITH ALL CIRCUITS. TICK MARKS AND CONDUCTOR SIZES ARE ONLY SHOWN ON THE HOMERUN. INSTALL THE REQUIRED QUANTITY AND SIZE CONDUCTORS TO EACH DEVICE ON THE SAME CIRCUIT AS INDICATED ON THE DRAWINGS. MINIMUM CONDUCTOR SIZE = #12 MINIMUM CONDUIT SIZE = 3/4 INCH SUBSCRIPT EXAMPLE: 4#8 = (3) UNGROUNDED AND (1) NEUTRAL CONDUCTORS SIZE IF OTHER THAN #12 1#10 = GROUNDING CONDUCTOR SIZE IF OTHER THAN #12 1"C = CONDUIT SIZE A-1,3,5 = PANEL NAME - POLE POSITION IN PANEL

FIRE ALARM

SYMBOL	DESCRIPTION
F	FIRE ALARM MANUAL PULL STATION
	FIRE ALARM STROBE (WALL & CEILING)
F	FIRE ALARM COMBINATION AUDIO/VISUAL APPLIANCE. (WALL & CEILING)
S H A	FIRE ALARM DEVICE - SUBSCRIPT INDICATES THE FOLLOWING : S - SMOKE DETECTOR, H - HEAT DETECTOR, A - ADDRESSABLE MODULE
XX	FIRE ALARM DUCT TYPE SMOKE DETECTOR
	WALL MOUNTED MAGNETIC DOOR HOLDER
	FLOOR MOUNTED MAGNETIC DOOR HOLDER
T	FIRE ALARM TAMPER SWITCH
F	FIRE ALARM FLOW SWITCH
FACP	FIRE ALARM CONTROL PANEL. PANEL IS RECESSED TYPE WHEN SHOWN WITHIN WALLS ON DRAWING.
FAA	FIRE ALARM ANNUNCIATOR. PANEL IS RECESSED TYPE WHEN SHOWN WITHIN WALLS ON DRAWING.

SYSTEMS

SYMBOL	DESCRIPTION
	EXISTING COMMUNICATIONS OUTLET
WAP WAP	DATA OUTLET FOR WIRELESS ACCESS POINT WITH ONE RJ45 DATA JACK WITH ONE UTP CABLE IN SURFACE RACEWAY, ONE INCH CONDUIT OR CABLE TRAY TO THE NEAREST MDF OR IDF. (WALL & CEILING)
#V/#D	VOICE/DATA OUTLET WITH # VOICE AND # OF DATA JACKS AND # UTP CABLES IN SURFACE RACEWAY, ONE INCH CONDUIT, OR CABLE TRAY TO THE NEAREST MDF OR IDF (#V - INDICATES THE NUMBER OF VOICE JACKS AND CABLES, #D - INDICATES THE NUMBER OF DATA JACKS AND CABLES), C - ABOVE COUNTER, CG - CEILING MOUNTED
	MULTIMEDIA OUTLET. 4 11/16" OUTLET BOX WITH TWO 1-1 1/4" CONDUITS TO ABOVE ACCESSIBLE CEILING. (WALL & CEILING)
ACC	ADMINISTRATIVE CONTROL CENTER. CONNECT TO THE INTERCOM SYSTEM AS REQUIRED
DR	DOOR RELEASE BUTTON
S S M	INTERCOM SPEAKER (CEILING; RECESSED WALL-MOUNTED; HORN-TYPE WALL MOUNTED
D A	SINGLE SIDED CLOCK (DIGITAL & ANALOG)
D D A	DOUBLE SIDED CLOCK (DIGITAL & ANALOG)
A	
	INTERCOM CALL BUTTON
	CABLE TRAY. MINIMUM DIMENSIONS AS INDICATED ON DRAWINGS.
	FLOOR MOUNTED FOUR POST DATA RACK, 84 INCHES TALL, 30 INCHES DEEP, WITH VERTICAL WIRE MANAGEMENT.
	FLOOR MOUNTED TWO POST DATA RACK, 84 INCHES TALL, 30 INCHES DEEP, WITH VERTICAL WIRE MANAGEMENT.
I	INTERCOM STATION
K	SECURITY SYSTEM KEY PAD
CR	SECURITY SYSTEM CARD READER
X	CEILING MOUNTED SECURITY SYSTEM CAMERA, BY OWNER. PROVIDE ONE RJ45 DATA JACK WITH ONE UTP CABLE IN SURFACE RACEWAY, ONE INCH CONDUIT OR CABLE TRAY TO THE NEAREST MDF OR IDF.
X	WALL MOUNTED SECURITY SYSTEM CAMERA, BY OWNER. PROVIDE ONE RJ45 DATA JACK WITH ONE UTP CABLE IN SURFACE RACEWAY, ONE INCH CONDUIT OR CABLE TRAY TO THE NEAREST MDF OR IDF.
AP	ACCESS POINTS WITH ELECTRIFIED DOOR HARDWARE

DEMOLITION vs EXISTING LINE WEIGHTS

DEMO	EXISTING

ELECTRICAL DEVICE MOUNTING HEIGHTS

SWITCHES	48 INCHES TO TOP
INTERIOR RECEPTACLES	16 INCHES TO BOTTOM
EXTERIOR RECEPTACLES	24 INCHES TO BOTTOM
COMMUNICATIONS / DATA OUTLETS	16 INCHES TO BOTTOM
FIRE ALARM MANUAL PULL STATIONS	48 INCHES TO TOP
FIRE ALARM HORN/STROBE SIGNAL	80 INCHES TO BOTTOM
FIRE ALARM STROBE SIGNAL	80 INCHES TO BOTTOM
WALL TELEPHONES	48 INCHES TO TOP
TELEVISION OUTLETS	72 INCHES TO BOTTOM
CLOCKS	96 INCHES TO TOP

NOTE: MOUNTING HEIGHTS UNLESS OTHERWISE NOTED ON DRAWINGS.

ABBREVIATIONS

±10'	+10' INDICATES THE MOUNTING HEIGHT OF THE DEVICE TO BOTTOM.
1Ø	1-PHASE
3Ø	3-PHASE
BTM	BOTTOM
C	DEVICE TO BE INSTALLED 4 INCHES ABOVE COUNTER BACKSPLASH.
CT	CURRENT TRANSFORMER
EOE	EXISTING OVERHEAD ELECTRIC
EOF	EXISTING OVERHEAD FIBER OPTIC
EOP	EXISTING OVERHEAD PRIMARY
EOS	EXISTING OVERHEAD SECONDARY
EOT	EXISTING OVERHEAD TELEPHONE
EUE	EXISTING UNDERGROUND ELECTRIC
EUF	EXISTING UNDERGROUND FIBER OPTIC
EUP	EXISTING UNDERGROUND PRIMARY
EUS	EXISTING UNDERGROUND SECONDARY
EUT	EXISTING UNDERGROUND TELEPHONE
EOTV	EXISTING OVERHEAD TELEVISION
EUTV	EXISTING UNDERGROUND TELEVISION
GF	GROUND FAULT PROTECTION
GND	GROUND
KWH	KILO WATT HOUR
OE	OVERHEAD ELECTRIC
OF	OVERHEAD FIBER OPTIC
OP	OVERHEAD PRIMARY
OS	OVERHEAD SECONDARY
OT	OVERHEAD TELEPHONE
OTV	OVERHEAD TELEVISION
PT	POTENTIAL TRANSFORMER
SPD	SURGE PROTECTIVE DEVICE
T	DEVICE TO BE WALL MOUNTED 72 INCHES ABOVE FINISHED FLOOR.
UE	UNDERGROUND ELECTRIC
UF	UNDERGROUND FIBER OPTIC
UP	UNDERGROUND PRIMARY
US	UNDERGROUND SECONDARY
UT	UNDERGROUND TELEPHONE
UTP	UNSHIELDED TWISTED PAIR
UTV	UNDERGROUND TELEVISION
W	DEVICE TO BE WALL MOUNTED 48 INCHES ABOVE FLOOR.
WG	PROVIDE DEVICE WITH MANUFACTURER'S WIREGUARD.
WP	PROVIDE DEVICE WITH WEATHERPROOF COVER. RECEPTACLES TO BE WEATHER-RESISTANT TYPE AND PROVIDED WITH A CAST ALUMINUM, EXTRA DUTY, WHILE-IN-USE COVER.

I

BRANCH CIRCUIT PANELBOARD

VOLTAGE		3 PHASE	POLES	MAIN AMPS		MAIN TYPE		A. I. RATING	MOUNTING		
120/208		4 WIRE	42	225		MLO		22,000	SURFACE		
POLE	BREAKER		LOAD SERVED	PHASE LOADS				LOAD SERVED	BREAKER		POLE
NO.	TRIP	P		KVA	A	B	C	KVA		TRIP	P	NO.
1	20	1	REC: CLASSROOM 308	1.0	2.1			1.1	LIGHTING CORRIDOR/RR	20	1	2
3	20	1	REC: CLASSROOM 308	0.9		1.9		1.0	LIGHTING - CLASSROOMS	20	1	4
5	20	1	REC: CLASSROOM 308	1.5			2.1	0.6	CEILING HEATER - 301	20	1	6
7	20	1	REC: CLASSROOM 308	1.5	2.0			0.5	WATER COOLERS	20G	1	8
9	20	1	REC: OFFICE 307	0.9		1.0		0.1	RECIRC PUMP RCP-1	15	1	10
11	20	1	REC: CLASSROOM 306	0.9			0.9	0.0	EF-01 (ON ROOF)	15	1	12
13	20	1	REC: CLASSROOM 306	1.0	3.3			2.3	WATER HEATER EWH-01	30	2	14
15	20	1	REC: CLASSROOM 306	1.5		3.8		2.3	-	-	-	16
17	20	1	REC: CLASSROOM 306	1.5			2.5	1.0	VAV BOXES	20	1	18
19	20	1	REC RR303,305, STORAGE 304	0.9	0.9			0.0	SPACE			20
21	20	1	REC: CORRIDOR 301	0.7		0.7		0.0	SPACE			22
23			SPACE	0.0			0.0	0.0	SPACE			24
25			SPACE	0.0	0.0			0.0	SPACE			26
27			SPACE	0.0		0.0		0.0	SPACE			28
29			SPACE	0.0			0.0	0.0	SPACE			30
31			SPACE	0.0	0.0			0.0	SPACE			32
33			SPACE	0.0		0.0		0.0	SPACE			34
35			SPACE	0.0			0.0	0.0	SPACE			36
37	20	1	SPARE	1.0	2.0			1.0	SPARE	20	1	38
39	20	1	SPARE	1.0		2.0		1.0	SPARE	20	1	40
41	20	1	SPARE	1.0			2.0	1.0	SPARE	20	1	42
			PHASE TOTALS:		10.3	9.4	7.5		TOTAL: 27.2 KVA			

NOTES:
1.

ABBREVIATIONS:
G - GFCI BREAKER
A - AFCI BREAKER
L - LOCKOUT BREAKER
S - SHUNT TRIP BREAKER
C - COMBINATION GFCI/AFCI BREAKER
MCB - MAIN CIRCUIT BREAKER
MLO - MAIN LUG ONLY

LIGHT FIXTURE SCHEDULE

FIXTURE TYPE	DESCRIPTION	LAMPS						VOLTS	MOUNTING TYPE	MANUFACTURER - MODEL NUMBER	NOTES
		TYPE	CRI	DIMMING	COLOR TEMP	LUMENS	WATTS				
A	2x4 TROFFER	LED	>80	0-10V	3500	4000	40	120-277	RECESSED	CREE CR24-40L-35K-S METALUX EQUAL LITHONIA EQUAL	2
AE	SAME AS TYPE 'A' WITH INTEGRAL BACKUP BATTERY	LED	>80	0-10V	3500	4000	40	120-277	RECESSED	CREE CR24-40L-35K-S METALUX EQUAL LITHONIA EQUAL	2,3
B	2X2 TROFFER	LED	>80	0-10V	3500	3200	35	120-277	RECESSED	CREE 2R22-40L-35K-10V METALUX EQUAL LITHONIA EQUAL	2,3
C	2X4 TROFFER	LED	>80	0-10V	3500	4000	44	120-277	RECESSED	CREE 2R24-40L-35K-10V METALUX EQUAL LITHONIA EQUAL	2,3
CE	SAME AS TYPE 'C' WITH INTEGRAL BACKUP BATTERY	LED	>80	0-10V	3500	4000	44	120-277	RECESSED	CREE 2R24-40L-35K-10V METALUX EQUAL LITHONIA EQUAL	2,3
D	LED STRIP LIGHT	LED	>80	0-10V, @ 1%	4000K	4000	65	120-277	CHAIN HUNG	LITHONIA ZL1N METALUX EQUAL COLUMBIA EQUAL	
DE	SAME AS TYPE 'D' WITH INTEGRAL BACKUP BATTERY	LED	>80	0-10V, @ 1%	4000K	4000	65	120-277	CHAIN HUNG	LITHONIA ZL1N METALUX EQUAL COLUMBIA EQUAL	
X	EXIT	LED	-	-	-	-	1	120-277	UNIVERSAL	SURELITE CX-7-1 OR 2-WH-SD SERIES ISOLITE EQUAL DUAL LITE EQUAL	4
EX	EXISTING LIGHT FIXTURE TO BE RELOCATED	-	-	-	-	-	-	-	-	-	1

NOTES:
1 REFER TO DEMOLTION PLAN FOR EXISTING LOCATION AND NEW WORK PLAN FOR FINAL LOCATION
2 FIXTURE TO MATCH EXISTING LIGHT FIXTURES INSTALLED UNDER PREVIOUS RENOVATION IN REMAINDER OF BUILDING.
3 L70 OF 75,000 HOURS
4 SEE PLANS FOR MOUNTING TYPE, NUMBER OF FACES AND DIRECTIONAL ARROW REQUIREMENTS

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ELECTRICAL STANDARD SYMBOLS

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244 L.B.J. Rd. JACKSON, KY 41339

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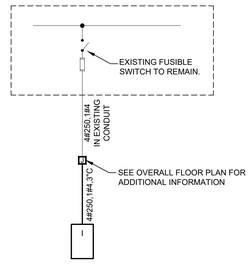


PARTIAL ONE-LINE DIAGRAM

GENERAL NOTES:

DEMOLITION

1. ALL ELECTRICAL DEVICES SHOWN AS LIGHTER WEIGHT ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
2. ALL ELECTRICAL DEVICES SHOWN IN HEAVIER WEIGHT SHALL BE REMOVED UNLESS OTHERWISE NOTED.
3. CONDUCTORS FOR REMOVED DEVICES AND EXPOSED CONDUITS SHALL BE REMOVED.
4. REMOVE ALL EXISTING AND ACCESSIBLE ABANDONED LOW VOLTAGE CABLING. ACCESSIBLE AREAS INCLUDE, BUT NOT LIMITED TO, ABOVE LAY-IN CEILINGS, BELOW RAISED FLOORS AND EXPOSED LOCATIONS.
5. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PATCHING AND REPAIRING ALL AREAS WHERE WALLS, SLABS AND MATERIALS HAVE BEEN CUT, REMOVED OR MODIFIED AS A RESULT OF DEMOLITION. PATCHING AND REPAIRS SHALL MATCH THE ADJACENT EXISTING MATERIALS, RATINGS AND FINISHES.
6. COORDINATE WITH MECHANICAL CONTRACTOR FOR TIMING/SEQUENCE OF ELECTRICAL DEMOLITION ASSOCIATED WITH MECHANICAL EQUIPMENT. REFER TO THE MECHANICAL AND PLUMBING PLANS FOR LOCATION OF EQUIPMENT REQUIRING ELECTRICAL DEMOLITION. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR REMOVING THE ELECTRICAL CONNECTION TO EQUIPMENT.
7. ALL EXISTING UTILITIES AND DEVICES SHOWN HAVE BEEN COMPILED FROM SITE SURVEYS, RECORD DRAWINGS AND VISUAL SITE INSPECTIONS. ALL DEVICES ITEMS TO BE REMOVED MAY NOT BE SHOWN ON THIS DRAWING. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID TO BECOME FAMILIAR WITH THE EXTENT OF THE DEMOLITION WORK REQUIRED.
8. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL EXISTING DEVICES AND SYSTEMS ACTIVE UNTIL THEY ARE DEMOLISHED IN THEIR RESPECTIVE PHASES. PROVIDE ALL TEMPORARY CONNECTIONS AS REQUIRED. COORDINATE ALL DEMOLITION WORK WITH THE TIMING/SEQUENCE OF NEW WORK.
9. ALL EXISTING FLUORESCENT LIGHT FIXTURES TO BE ABANDONED AND REMOVED IN THIS CONTRACT, SHALL BE ASSUMED TO BE EQUIPPED WITH PCB FILLED BALLASTS. LIGHT FIXTURES SHALL BE DISASSEMBLED AND THE BALLAST REMOVED PRIOR TO SALVAGE AND/OR DISPOSAL. BALLASTS CONTAINING PCB'S SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

SYSTEMS

1. ALL FIRE ALARM CABLING SHALL BE INSTALLED WITHIN A MINIMUM OF 3/4 INCH CONDUIT.
2. ALL ELECTRICALLY CONDUCTIVE CABLES THAT ARE CONNECTED TO EXTERIOR MOUNTED DEVICES SHALL BE PROVIDED WITH A SURGE PROTECTIVE DEVICE. INCLUDING, BUT NOT LIMITED TO, FIRE ALARM CABLES FOR TAMPER AND FLOW SWITCHES, SECURITY CAMERAS AND INTERCOM SPEAKERS.
3. INSTALL A DEDICATED 4-PAIR CATEGORY 6 TELEPHONE CABLE FROM THE TELEPHONE DEMARCATION TO THE FIRE ALARM COMMUNICATOR/TRANSMITTER. CONNECT CABLE AHEAD OF ANY TELEPHONE SYSTEM AS REQUIRED FOR THE COMMUNICATOR/TRANSMITTER TO CAPTURE TWO TELEPHONE LINES.

SURFACE RACEWAY

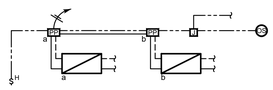
1. ALL SURFACE RACEWAYS SHALL BE WIREMOLD V700, AND V2400 SERIES OR APPROVED EQUAL UNLESS NOTED OTHERWISE.
2. V700 SERIES SHALL BE USED FOR RECEPTACLES, SWITCHES AND FIRE ALARM DEVICES. V2400 SERIES SHALL BE INSTALLED FOR VOICE AND DATA CABLING.
3. ALL SURFACE RACEWAY IS TO BE MOUNTED ON EXISTING WALLS ONLY. USE SUPPORTING CLIPS AND NOT MOUNTING STRAPS. THE CONTRACTOR HAS THE OPTION TO FISH FLEXIBLE CONDUIT DOWN EXISTING WALLS IN LIEU OF USING SURFACE RACEWAY.
4. COORDINATE THE ROUTING OF ALL RACEWAY WITH WALL MOUNTED FURNISHINGS (I.E. TACKBOARDS, MARKERBOARDS, INTERACTIVE WHITEBOARDS, ETC.).

CABLING

1. ALL EXPOSED LOW VOLTAGE CABLING SHALL BE PLENUM RATED.

LIGHTING

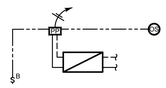
1. THE CONTRACTOR SHALL INSTALL THE REQUIRED NUMBER OF CONDUCTORS BETWEEN SWITCHES, LIGHT FIXTURES AND ASSOCIATED DEVICES FOR A COMPLETE AND WORKING SYSTEM. PROVIDE SINGLE-LEVEL OR DUAL-LEVEL SWITCHING, THREE-WAY SWITCHING OR OTHER SWITCHING METHOD AS INDICATED ON THE DRAWINGS.
2. INSTALL AN UNSWITCHED CONDUCTOR TO ALL EXIT LIGHTS, EMERGENCY LIGHTS AND ALL OTHER FIXTURES USED FOR EMERGENCY ILLUMINATION AND SUPPLIED WITH INTEGRAL OR EXTERNAL BATTERIES. INSTALL A NORMAL UNSWITCHED CONDUCTOR TO ALL EMERGENCY RELAYS WHEN EMERGENCY POWER IS PROVIDED BY A GENERATOR OR MEANS OTHER THAN BATTERY POWER. THE UNSWITCHED CONDUCTOR SHALL BE FED FROM THE SAME CIRCUIT AS THE SWITCHED CONDUCTOR(S).
3. CABLING ASSOCIATED WITH THE LOW VOLTAGE LIGHTING CONTROLS, INCLUDING DIMMING, NETWORK AND CONTROL CABLES, SHALL BE INSTALLED AND SUPPORTED IN A SIMILAR MANNER AS THE TELECOMMUNICATIONS CABLING. CABLING SHALL BE INSTALLED IN CONDUIT WHEN LOCATED IN AREAS WITH EXPOSED CEILINGS OR STRUCTURES, ABOVE INACCESSIBLE CEILINGS AND WHERE LOCATED WITHIN WALLS. CABLING INSTALLED ABOVE ACCESSIBLE, CONCEALED CEILINGS SHALL BE INSTALLED IN CONDUIT OR SHALL BE SUPPORTED BY J-HOOKS. THE CABLING SHALL BE INSTALLED SEPARATE FROM LINE VOLTAGE CONDUCTORS AND TELECOMMUNICATIONS CABLING. J-HOOKS MAY BE ATTACHED TO THE OUTSIDE OF THE TELECOMMUNICATIONS CABLE TRAY, IF AVAILABLE, PROVIDING THE MAXIMUM RATED WEIGHT CAPACITY OF THE CABLE TRAY IS NOT EXCEEDED.



ZONE CONTROL - a & b

1. MANUAL ON/OFF BY SWITCH WHEN OCCUPANCY DETECTED.
2. AUTO-OFF AFTER NO OCCUPANCY DETECTED FOR 15 MINUTES.
3. MANUAL RAISE/LOWER 0-10V DIMMING
   SCENE 1: ALL ON AT 80%
   SCENE 2: INSTRUCTIONAL WALL ON AT 10%, REMAINDER OF FIXTURES AT 50%
   SCENE 3: ALL ON AT 50%
   SCENE 4: ALL ON AT 100%

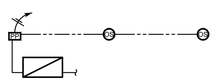
1 1-LC
NOT TO SCALE



ZONE CONTROL

1. MANUAL ON/OFF BY SWITCH WHEN OCCUPANCY DETECTED.
2. MANUAL RAISE/LOWER BY SWITCH.
3. AUTO-OFF AFTER NO OCCUPANCY DETECTED FOR 15 MINUTES.

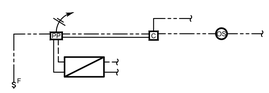
2 2-LC
NOT TO SCALE



ZONE CONTROL

1. AUTO ON PER ZONE WHEN OCCUPANCY DETECTED IN ZONE.
2. AUTO-OFF AFTER NO OCCUPANCY DETECTED FOR 15 MINUTES.

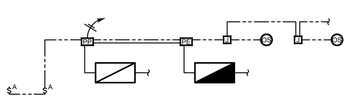
3 3-LC
NOT TO SCALE



ZONE CONTROL

1. MANUAL ON/OFF BY SWITCH WHEN OCCUPANCY DETECTED.
2. AUTO-OFF AFTER NO OCCUPANCY DETECTED FOR 15 MINUTES.

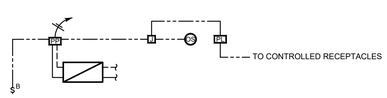
4 4-LC
NOT TO SCALE



ZONE CONTROL

1. OCCUPIED TIME - 7AM-5PM
2. UNOCCUPIED TIME - 5PM-7AM
3. OCCUPIED TIME:
   A. MANUAL ON WHEN OCCUPANCY DETECTED.
   B. LIGHTING TO REMAIN ON.
   C. SWITCH CONTROL SHALL BE OVERRIDDEN.
4. UNOCCUPIED TIME:
   A. AUTOMATIC ON WHEN OCCUPANCY IS DETECTED.
   B. AUTOMATIC OFF WHEN OCCUPANCY IS NOT DETECTED FOR 15 MINUTES.

5 5-LC
NOT TO SCALE



ZONE CONTROL

1. MANUAL ON/OFF BY SWITCH WHEN OCCUPANCY DETECTED.
2. MANUAL RAISE/LOWER BY SWITCH.
3. AUTO-OFF AFTER NO OCCUPANCY DETECTED FOR 15 MINUTES.
4. CONTROLLED RECEPTACLES OFF WHEN OCCUPANCY DETECTED.

6 6-LC
NOT TO SCALE

LIGHTING

SYMBOL	DESCRIPTION
$^{A}	ON/OFF (nLIGHT nPODM;...)
$^{B}	ON/OFF, RAISE/LOWER (nLIGHT nPODM DX;...)
$^{C}	2-ZONE, ON/OFF (nLIGHT...; WATTSTOPPER...)
$^{E}	2-ZONE, ON/OFF, RAISE/LOWER (nLIGHT...; WATTSTOPPER...)
$^{F}	OCCUPANCY SENSOR, ON/OFF (nLIGHT...; WATTSTOPPER...)
$^{G}	OCCUPANCY SENSOR, ON/OFF, RAISE/LOWER (nLIGHT...; WATTSTOPPER...)
$^{H}	4-SCENE, ON/OFF, RAISE/LOWER (nLIGHT...; WATTSTOPPER...)
PP16 a	POWER PACK - 'a' SUBSCRIPT INDICATES ZONE (nLIGHT nPP16D; WATTSTOPPER...)
PP4 a	EMERGENCY POWER PACK - 'a' SUBSCRIPT INDICATES ZONE (nLIGHT...)
PL1 a	PLUG LOAD CONTROL POWER PACK - 'a' SUBSCRIPT INDICATES ZONE (nLIGHT...)
360	360 DEGREE DUAL TECHNOLOGY OCCUPANCY SENSOR (nLIGHT...)
360F	CORNER MOUNTED, DUAL TECHNOLOGY OCCUPANCY SENSOR (nLIGHT...)
DL	DAYLIGHT SENSOR (nLIGHT...; WATTSTOPPER...)
– – – – – – – –	2#18 DIMMING CONDUCTOR CABLE
— – — — – —	CATEGORY 5E UTP NETWORK CABLE

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ELECTRICAL GENERAL NOTES

BREATHITT COUNTY PUBLIC SCHOOLS
SEBASTIAN ELEMENTARY SCHOOL - PARTIAL RENOVATION
244 L.B.J. Rd. JACKSON, KY 41339

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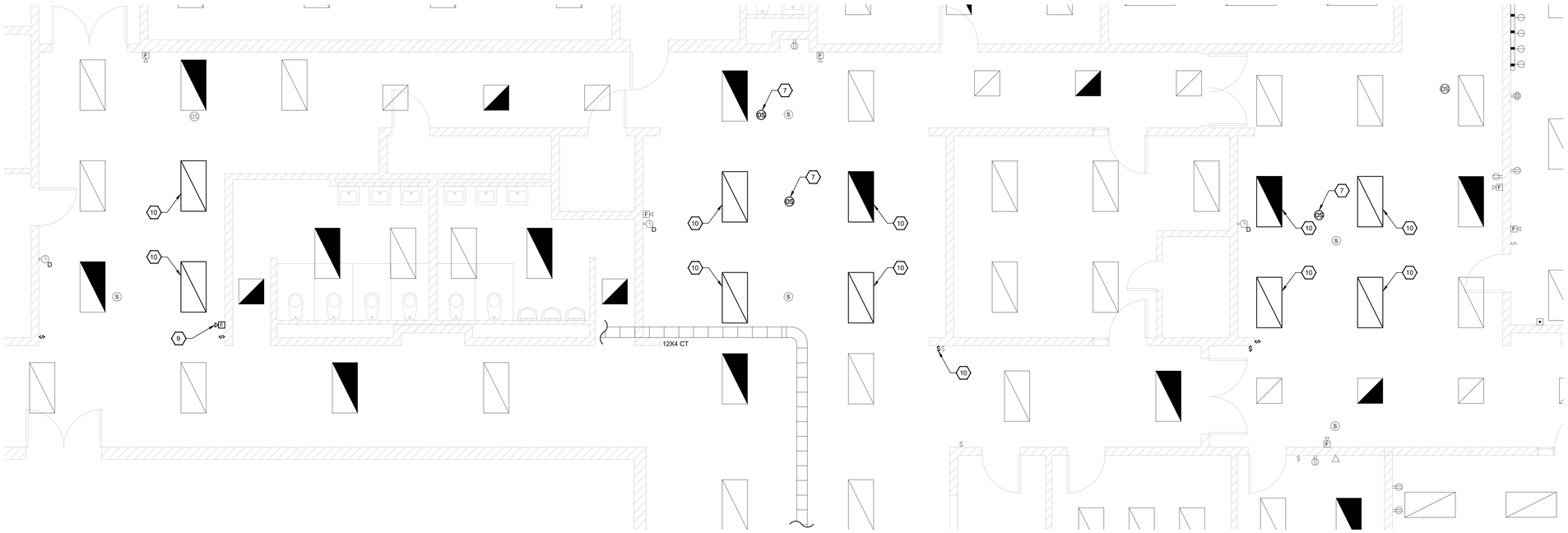
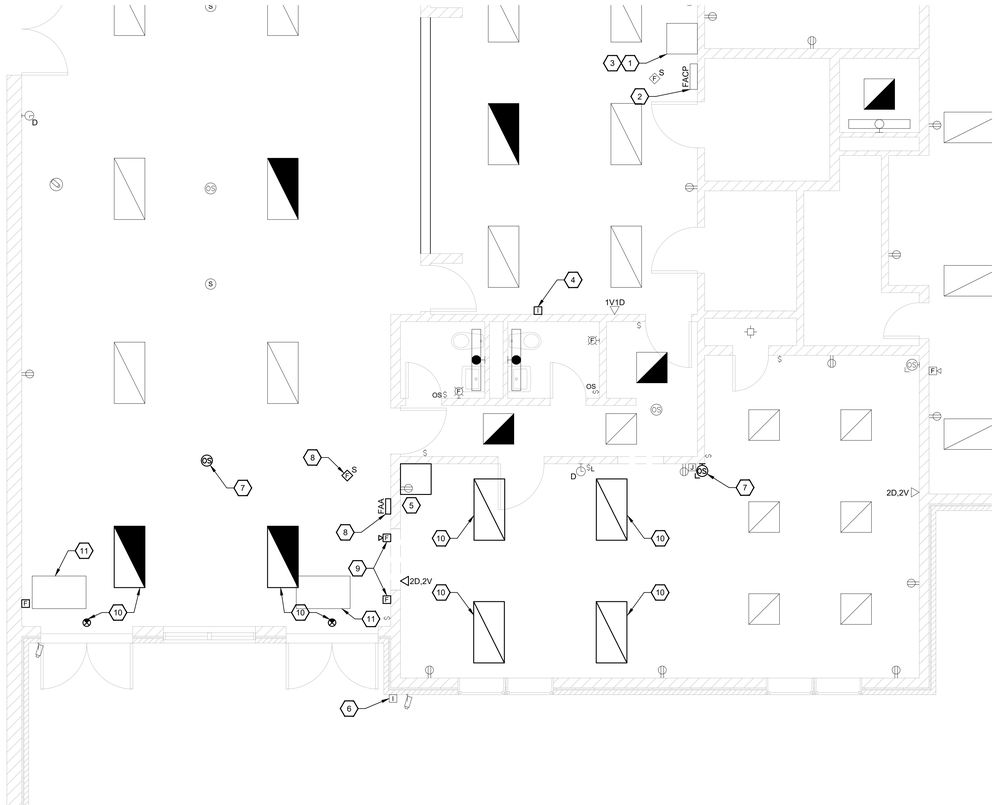


B
ED1.1
AREA 'B' DEMOLITION PLAN - ELECTRICAL
SCALE: 1/4" = 1'-0"



A
ED1.1
AREA 'A' DEMOLITION PLAN - ELECTRICAL
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. REFER TO SHEET E0.2 FOR GENERAL DEMOLITION NOTES.

SHEET KEYNOTES:

1. EXISTING INTERCOM HEAD-END TO REMAIN. EXISTING SYSTEM IS RAULAND TELECENTER.
2. EXISTING FIRE ALARM CONTROL PANEL TO REMAIN. PANEL IS NOTIFIER NFW2-100.
3. EXISTING WIRELESS CLOCK TRANSMITTER TO REMAIN. EXISTING CLOCKS ARE PRIMEX.
4. EXISTING FRONT DOOR INTERCOM MONITOR STATION TO BE RELOCATED UNDER NEW WORK. EXISTING SYSTEM IS AI-PHONE JO-IFO. REFER TO SHEET E3.1.
5. EXISTING CCTV EQUIPMENT TO BE REMOVED BY OWNER. REMOVE ALL CABLING AND RACEWAY BACK TO SOURCE.
6. EXISTING FRONT DOOR INTERCOM CAMERA AND MICROPHONE STATION TO REMAIN.
7. EXISTING DEVICE TO BE SALVAGED DURING DEMOLITION AND REINSTALLED UNDER NEW WORK. REFER TO SHEET E1.1.
8. EXISTING DEVICE TO BE SALVAGED DURING DEMOLITION AND RELOCATED TO VESTIBULE 100. REFER TO SHEET E3.1.
9. EXISTING TO BE SALVAGED DURING DEMOLITION AND REINSTALLED UNDER NEW WORK. REFER TO SHEET E3.1.
10. EXISTING LIGHT FIXTURE TO BE SALVAGED DURING DEMOLITION AND REINSTALLED UNDER NEW WORK. REFER TO SHEET E1.1.
11. REMOVE AND MAINTAIN ELECTRICAL CONNECTION TO EXISTING CEILING HEATER. UNIT TO BE RECONNECTED UNDER NEW WORK. REFER TO SHEET E2.1.

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ENLARGED DEMOLITION PLANS - ELECTRICAL

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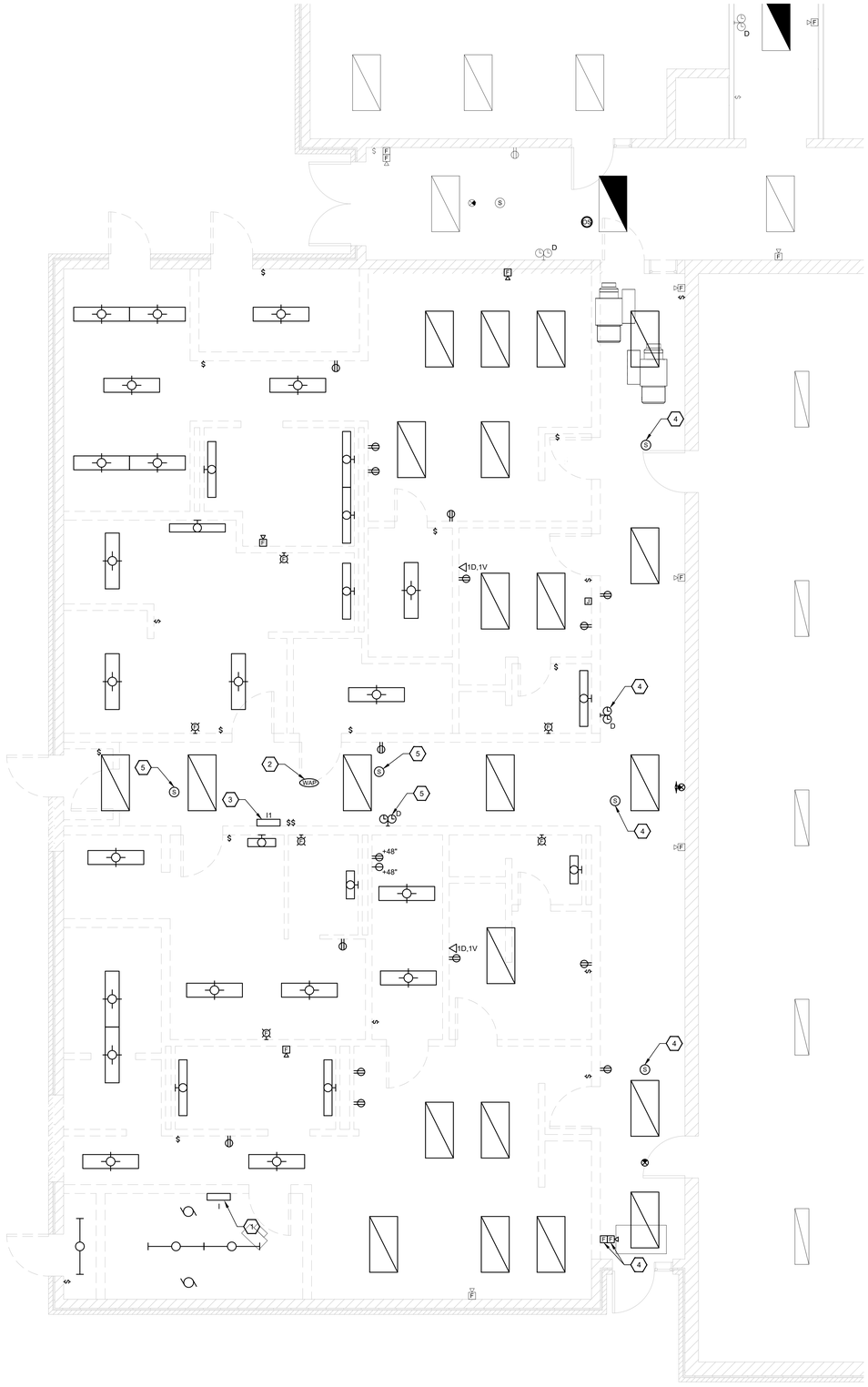

A
ED1.2
AREA 'C' DEMOLITION PLAN - ELECTRICAL
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. REFER TO SHEET E0.2 FOR GENERAL DEMOLITION NOTES.

SHEET KEYNOTES:

1. DEMOLISH EXISTING PANEL 'I'. EXISTING CONDUIT PATHWAY BACK TO MAIN DISTRIBUTION PANEL IS TO REMAIN FOR NEW FEEDER CONDUCTORS. REFER TO NEW WORK PLAN AND PARTIAL ONE-LINE DIAGRAM. EXISTING PANEL IS A WESTINGHOUSE 225A, 120/208, 3-PHASE, 4 WIRE, MAIN LUG ONLY PANEL.
2. SALVAGE WIRELESS ACCESS POINT AND TURN OVER TO OWNER.
3. DEMOLISH EXISTING PANEL 'I1' PANEL IS A WESTINGHOUSE 100A, 120/208, 3-PHASE, 4 WIRE, MAIN LUG ONLY PANEL.
4. SALVAGE EXISTING DEVICE AND REINSTALL UNDER NEW WORK. REFER TO SHEET E3.2.
5. SALVAGE EXISTING DEVICE AND TURN OVER TO OWNER.

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ENLARGED DEMOLITION PLAN - ELECTRICAL

BREATHITT COUNTY PUBLIC SCHOOLS
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244 L.B.J. Rd. JACKSON, KY 41339

Proj. #: 1901
Date: MAY 28, 2019
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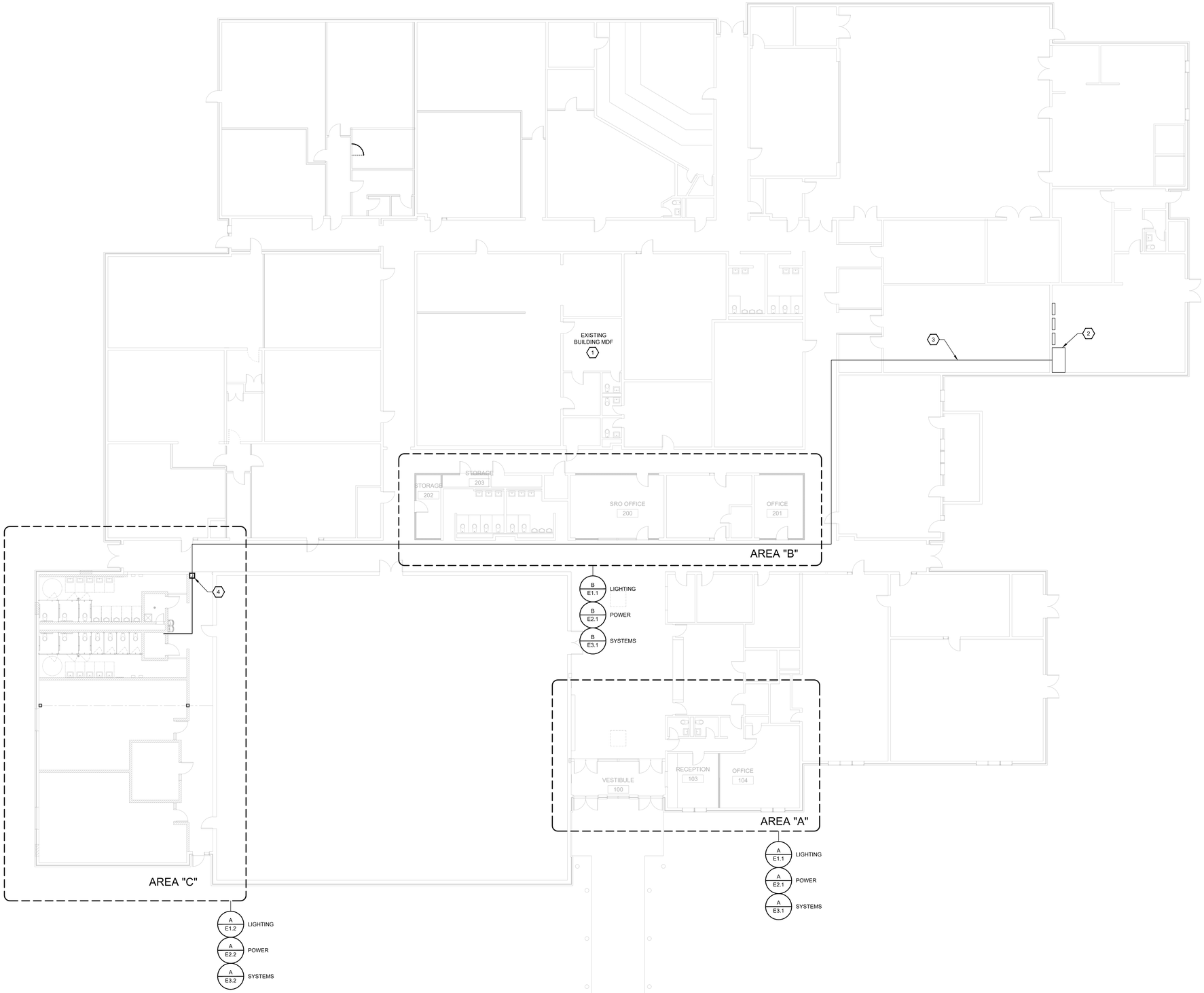
Revised:

ED1.2



A E1.0 REFERENCE PLAN - ELECTRICAL
SCALE: 3/32" = 1'-0"

GENERAL NOTES:

1. REFER TO SHEET E0.2 FOR GENERAL NOTES.

SHEET KEYNOTES:

1. ROUTE ALL NEW DATA CABLES IN THIS PROJECT TO THIS LOCATION. UTILIZE EXISTING CABLE TRAY PATHWAYS.
2. EXISTING MAIN DISTRIBUTION PANEL 'MDP'.
3. APPROXIMATE ROUTE OF EXISTING PANEL 'I' FEEDER. CONDUIT TO BE UTILIZED FOR NEW PANEL 'I' FEEDER. FIELD VERIFY PRIOR TO BID.
4. SET JUNCTION BOX TO INTERCEPT EXISTING FEEDER CONDUIT AN EXTEND NEW CONDUIT TO NEW PANEL 'I'. REFER TO PARTIAL ONE-LINE DIAGRAM.

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REFERENCE PLAN - ELECTRICAL

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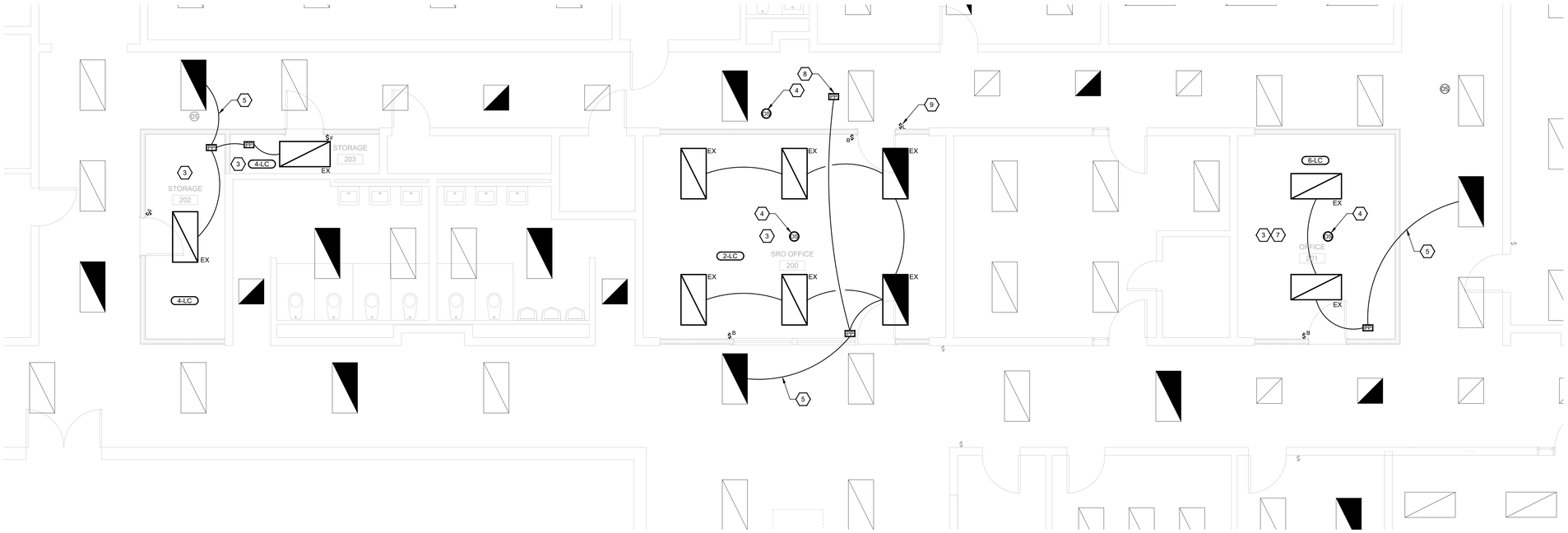
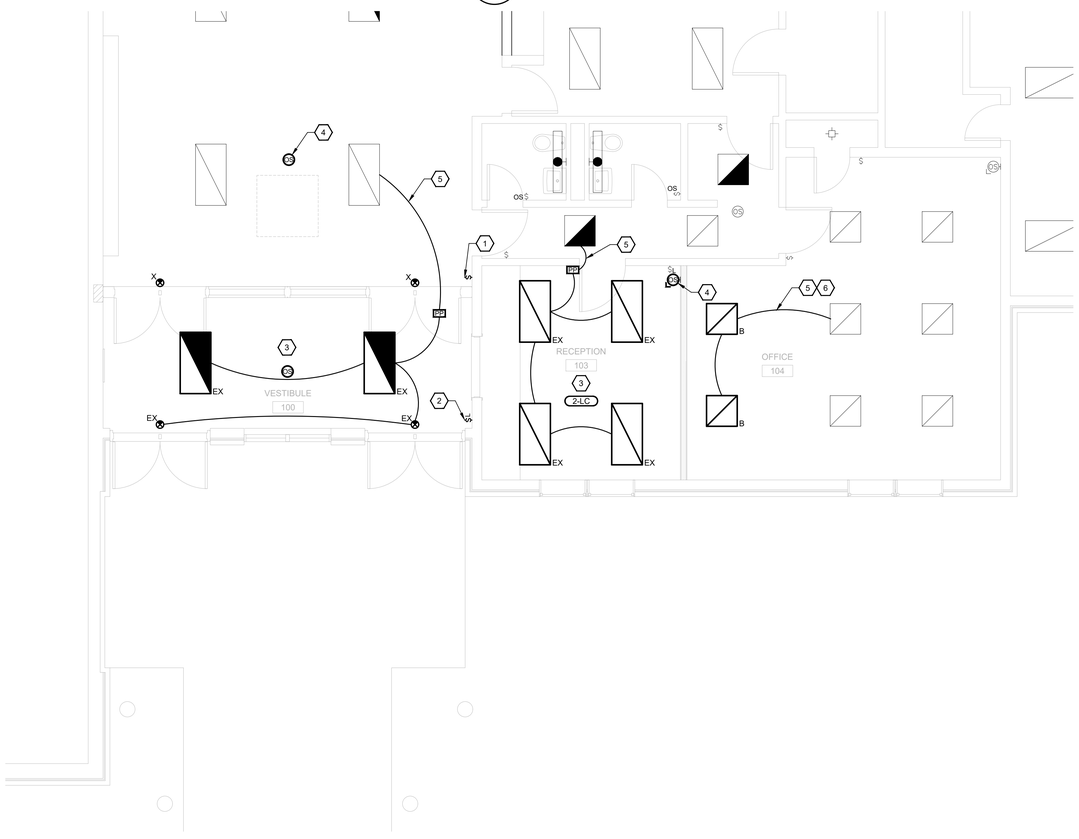


B E1.1 AREA 'B' PLAN - LIGHTING
SCALE: 1/4" = 1'-0"



A E1.1 AREA 'A' PLAN - LIGHTING
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. REFER TO SHEET E0.2 FOR GENERAL LIGHTING NOTES.
2. ALL FIXTURES LABELED WITH 'EX' ARE EXISTING FIXTURES TO BE RELOCATED.

SHEET KEYNOTES:

1. RELOCATE LIGHT SWITCH FOR LOBBY 101 TO THIS LOCATION.
2. PROVIDE NEW LIGHTING CONTROL STATION (ON/OFF) FOR VESTIBULE LIGHTS.
3. REALIGN EXISTING LIGHTS IN THIS SPACE TO NEW GRID. CONNECT TO EXISTING POWER PACK THAT PREVIOUSLY SERVED ROOM.
4. REINSTALL EXISTING OCCUPANCY SENSOR IN THIS LOCATION. REFER TO SHEET ED1.1.
5. PROVIDE 2#12,1#12,3/4" CONDUIT TO CONNECT UNSWITCHED POWER TO NEW POWER PACK.
6. PROVIDE NEW 0-10V DIMMING CONDUCTORS TO ALL NEW LIGHT FIXTURES ON THIS SWITCH LEG.
7. REFER TO POWER PLAN FOR PLUG LOAD CONTROL REQUIREMENTS.
8. EXISTING POWER PACK TO CONTROL THIS CORRIDOR. RECONNECT POWER.
9. RELOCATE EXISTING SWITCH FROM OPPOSITE SIDE OF SRO OFFICE 200 TO THIS LOCATION. REFER TO SHEET ED1.1 FOR EXISTING SWITCH LOCATION.

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ENLARGED FLOOR PLANS - LIGHTING

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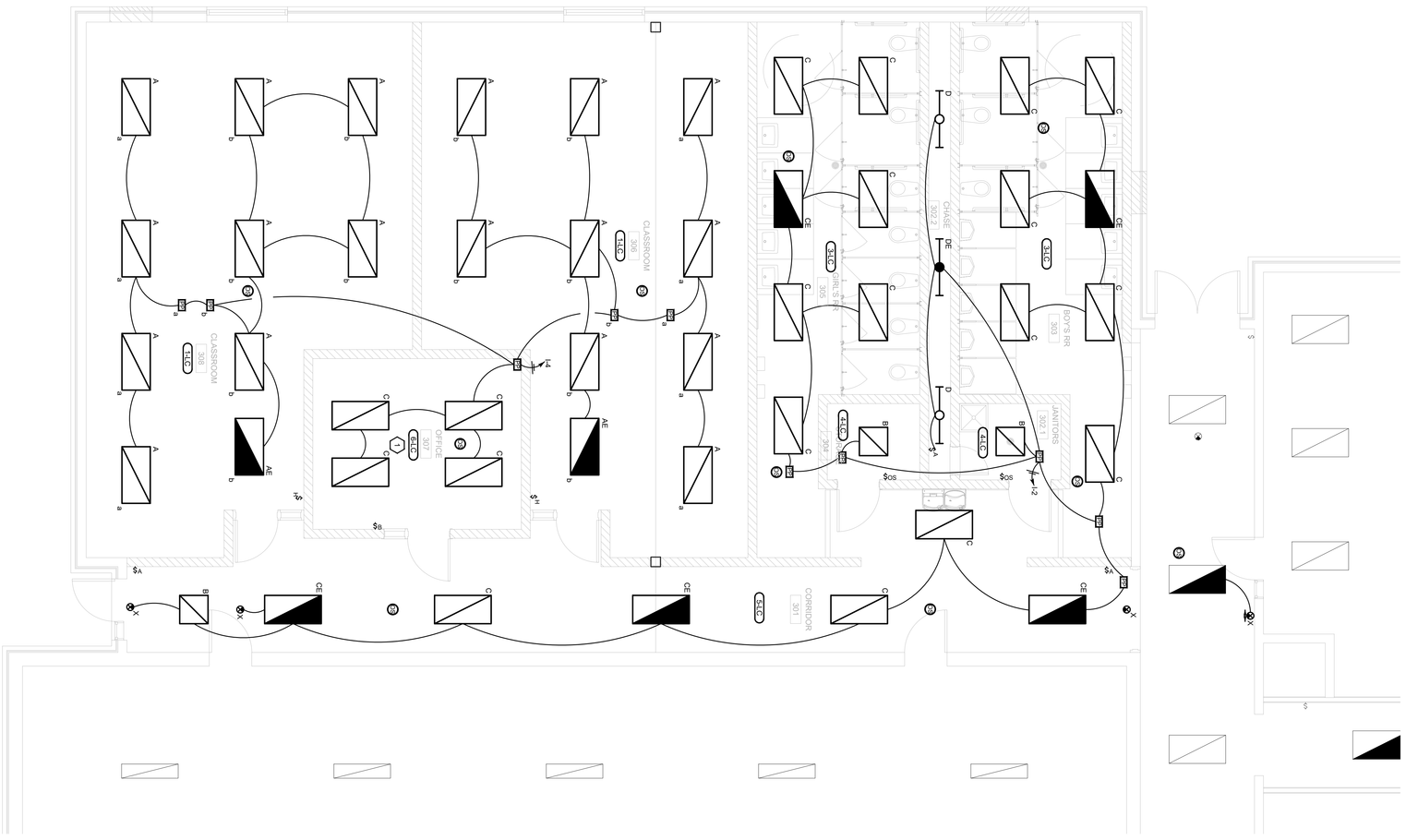

A E12 AREA 'C' PLAN - LIGHTING

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

GENERAL NOTES:

1. REFER TO SHEET E0.2 FOR GENERAL LIGHTING NOTES.

SHEET KEYNOTES:

1. REFER TO POWER PLAN FOR PLUG LOAD CONTROL REQUIREMENTS

E1.2

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ENLARGED FLOOR PLAN - LIGHTING

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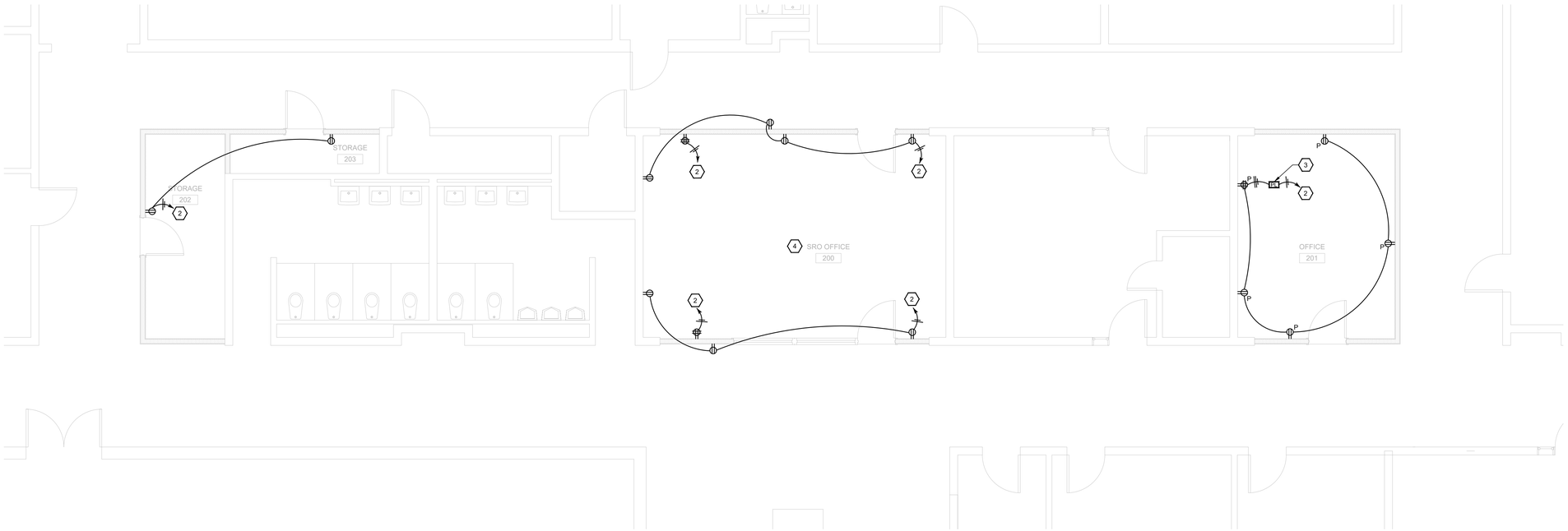
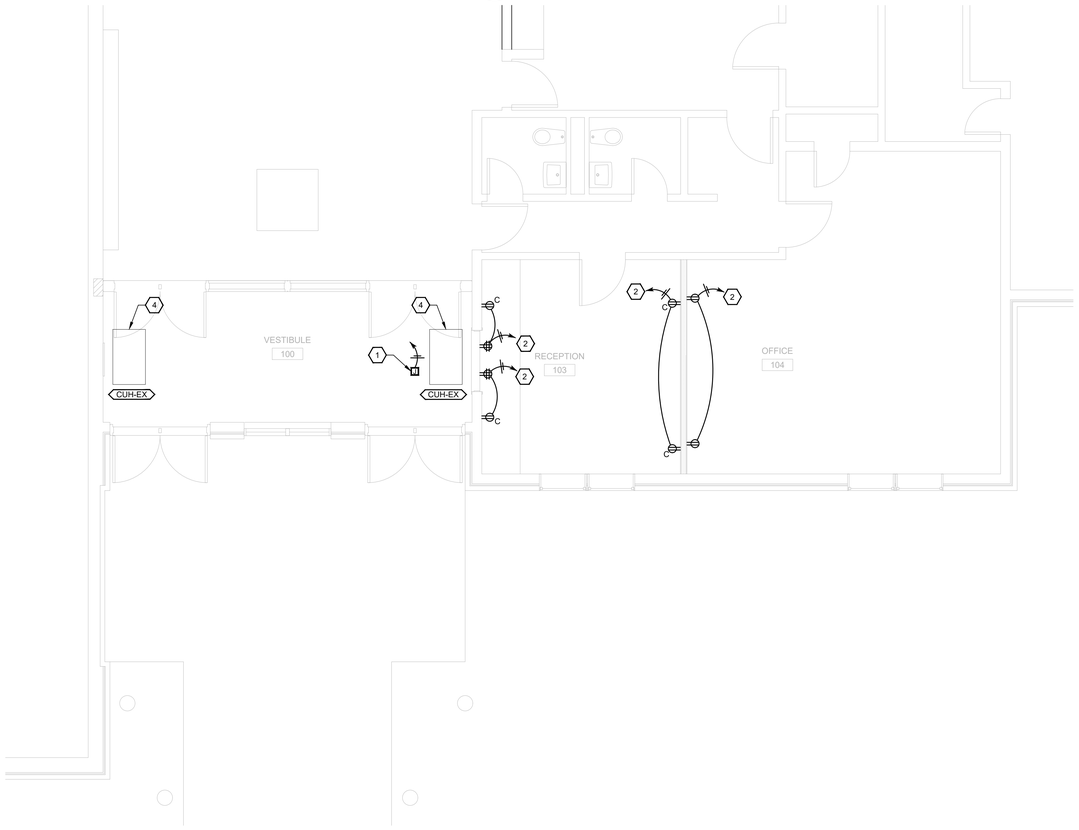


B E2.1 AREA 'B' PLAN - POWER
SCALE: 1/4" = 1'-0"



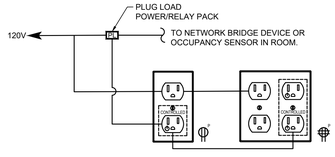
A E2.1 AREA 'A' PLAN - POWER
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. REFER TO SHEET E0.2 FOR GENERAL NOTES.

SHEET KEYNOTES:

1. PROVIDE CONNECTION TO ELECTRIFIED DOOR HARDWARE POWER SUPPLY ABOVE CEILING.
2. PROVIDE 2#12,1#12,3/4" CONDUIT TO SPARE 20A/1P BREAKER IN NEAREST 120/208 PANEL. FIELD VERIFY PANEL LOCATION PRIOR TO BID.
3. PROVIDE PLUG LOAD CONTROL RELAY/POWER PACK WITH LIGHTING CONTROL SYSTEM. REFER TO TYPICAL CONTROLLED RECEPTACLE WIRING DIAGRAM, THIS SHEET.
4. EXTEND EXISTING CIRCUIT TO RELOCATED CEILING HEATER AS REQUIRED. REFER TO SHEET ED1.1 FOR EXISTING LOCATION.



TYPICAL CONTROLLED RECEPTACLE WIRING DIAGRAM
NOT TO SCALE

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ENLARGED FLOOR PLANS - POWER

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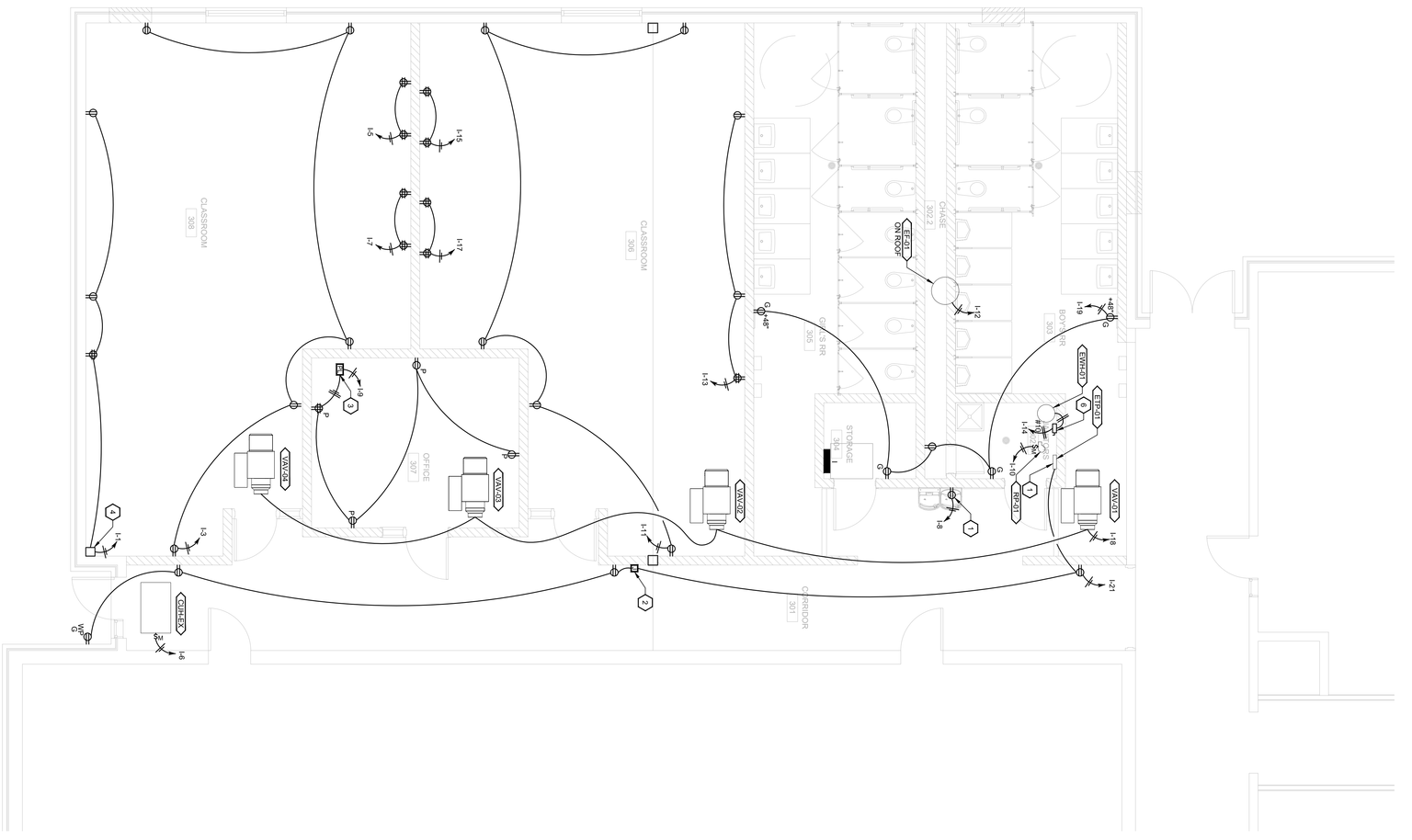

A
E2.2
AREA 'C' PLAN - POWER
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. REFER TO SHEET E0.2 FOR GENERAL NOTES.

SHEET KEYNOTES:

1. PROVIDE RECEPTACLE FOR NEW WATER COOLERS. COORDINATE WITH PLUMBING TRADES FOR EXACT LOCATION OF ROUGH-IN. ORDER TO COMPLETELY CONCEAL DEVICE.
2. PROVIDE CONNECTION TO DIGITAL WIRELESS CLOCK CENTERED IN TOP COURSE OF BLOCK BELOW CEILING.
3. PROVIDE PLUG LOAD CONTROL RELAY/POWER PACK WITH LIGHTING CONTROL SYSTEM. REFER TO TYPICAL CONTROLLED RECEPTACLE WIRING DIAGRAM ON SHEET E2.1.
4. PROVIDE RECEPTACLE ROUGHED IN VERTICALLY DOWN IN CORNER OF ROOM AND EXTEND HORIZONTALLY ALONG WALL TO RECEPTACLES.
5. PROVIDE CONNECTION TO ELECTRONIC TRAP PRIMER. COORDINATE WITH PLUMBING.
6. PROVIDE A HEAVY DUTY NON-FUSED, 240V, 30A, 2 POLE SAFETY SWITCH IN A NEMA 1 ENCLOSURE.

E2.2

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ENLARGED FLOOR PLAN - POWER

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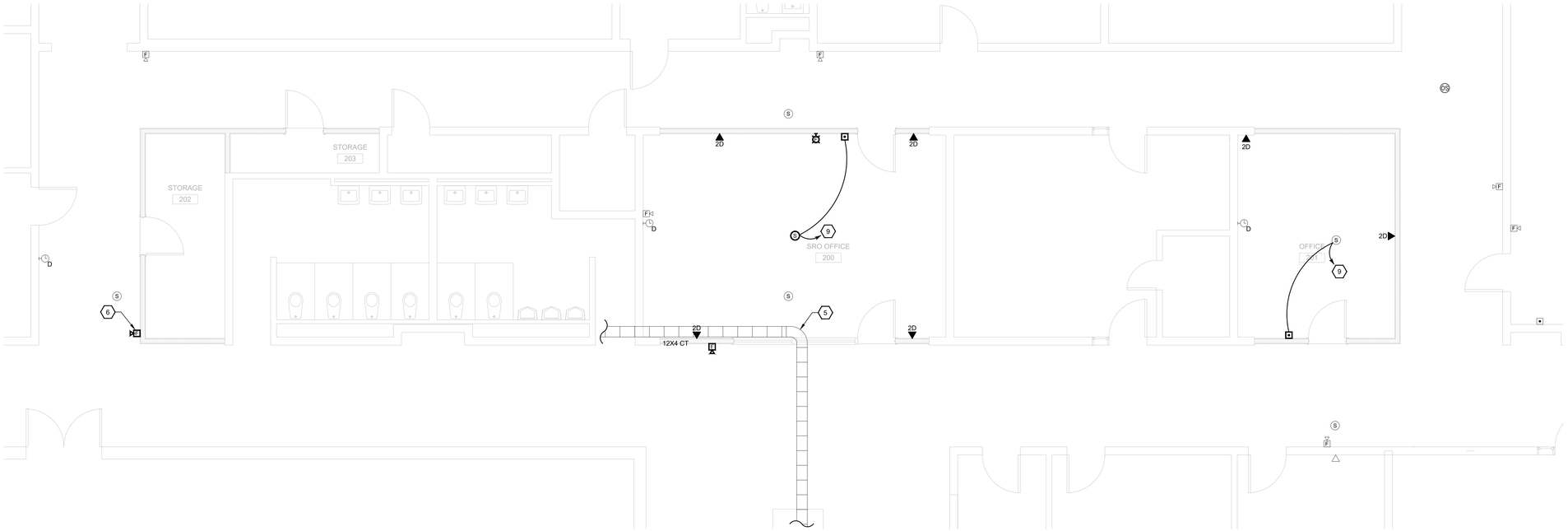
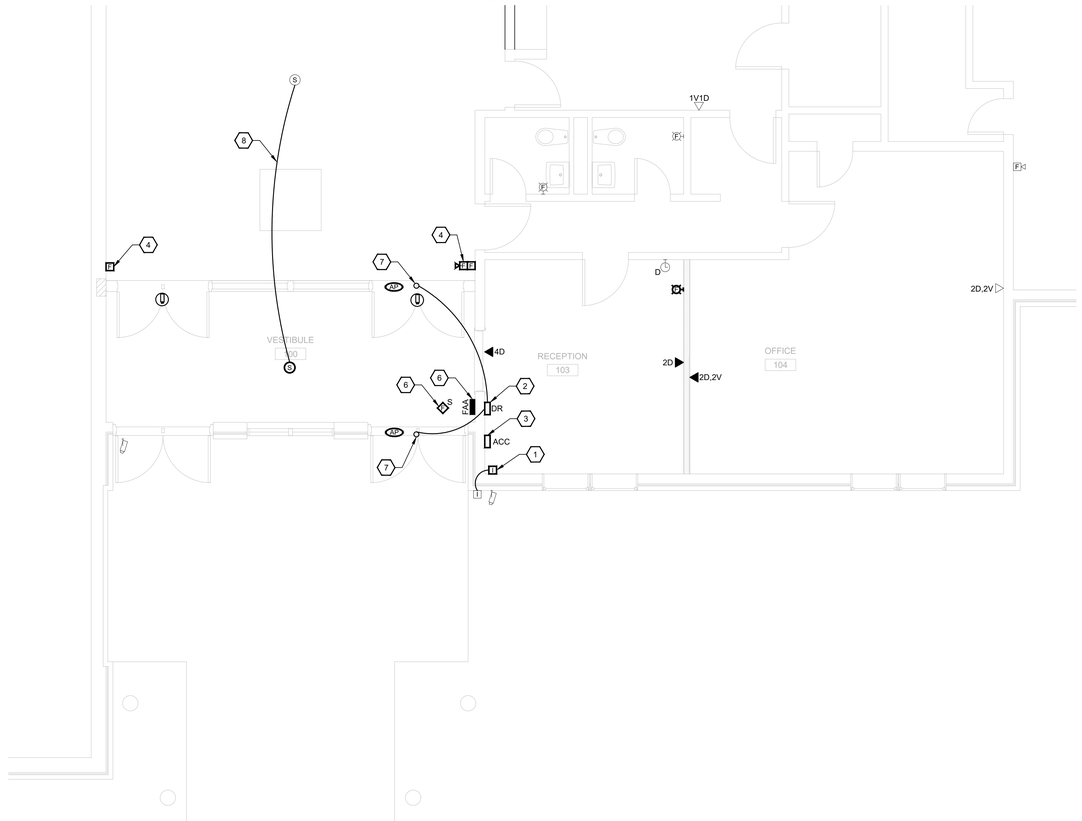


B
E3.1
AREA 'B' PLAN - SYSTEMS
SCALE: 1/4" = 1'-0"



A
E3.1
AREA 'A' PLAN - SYSTEMS
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. REFER TO E0.2 FOR GENERAL NOTES.

SHEET KEYNOTES:

1. RELOCATE FRONT DOOR INTERCOM MONITOR TO THIS LOCATION. REFER TO SHEET ED1.1.
2. PROVIDE 3/4" CONDUIT FROM DOOR RELEASE BUTTON TO ACCESSIBLE SPACE ABOVE DOORS WITH NEW ELECTRIC STRIKES. COORDINATE WITH DOOR HARDWARE PROVIDER.
3. RELOCATE INTERCOM ADMINISTRATIVE CONTROL CONSOLE TO THIS LOCATION.
4. RELOCATE FIRE ALARM DEVICES FROM VESTIBULE TO MAIN LOBBY 101. REFER TO DEMOLITION PLAN.
5. UTILIZE EXISTING CABLE TRAY FOR VOICE/DATA CABLING.
6. REINSTALL EXISTING DEVICE IN THIS LOCATION. REFER TO SHEET ED1.1.
7. PROVIDE 3/4" CONDUIT PATHWAY FROM ACCESSIBLE CEILING INTO DOOR FRAME FOR ELECTRIC STRIKE. COORDINATE WITH DOOR HARDWARE PROVIDER.
8. CONNECT SPEAKER TO EXISTING PUBLIC ADDRESS SYSTEM GENERAL CIRCUIT.
9. PROVIDE NEW HOMERUN INTERCOM CIRCUIT TO EXISTING INTERCOM HEAD-END. REFER TO SHEET ED1.1 FOR HEAD-END LOCATION.

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ENLARGED FLOOR PLANS - SYSTEMS

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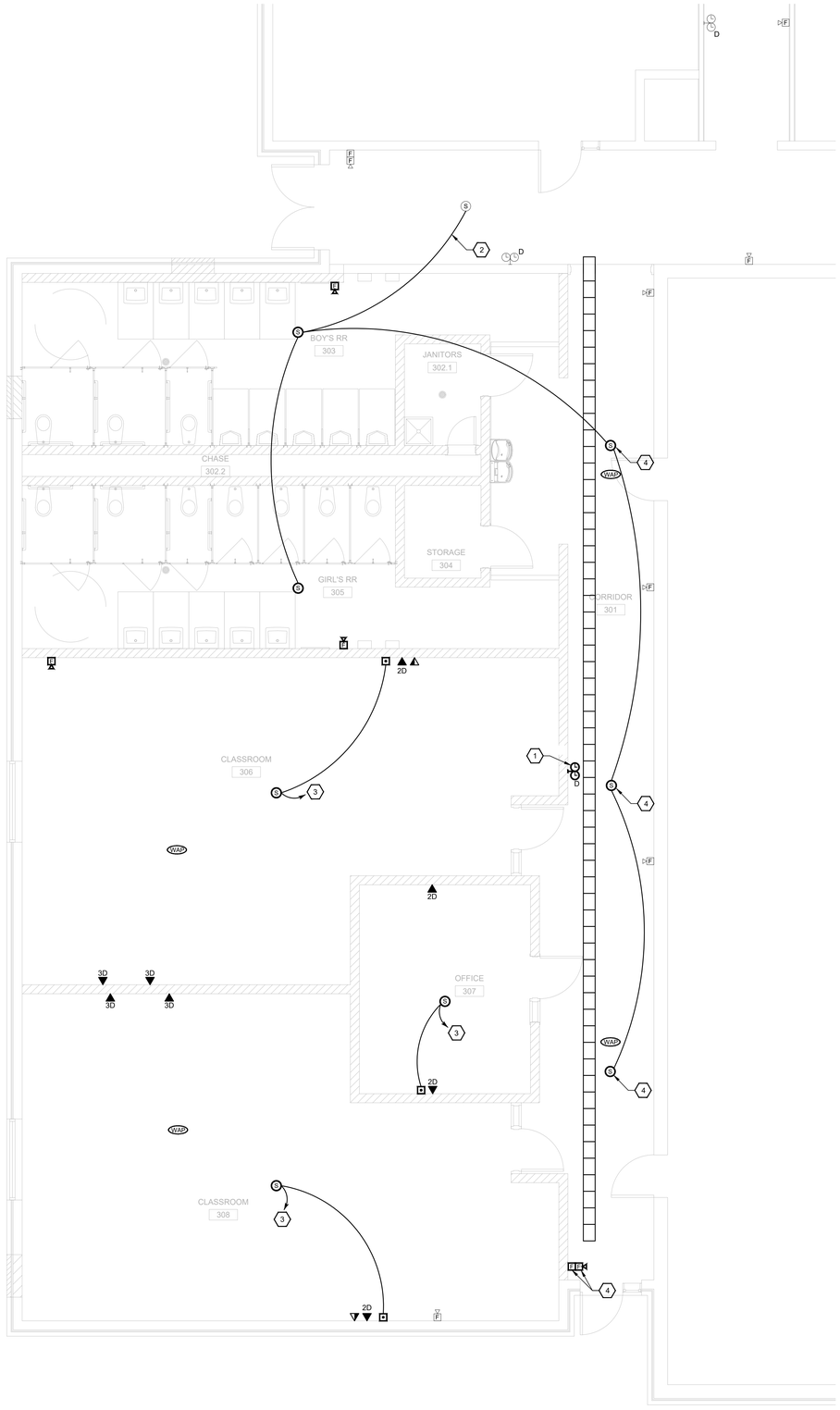

A
E3.2
AREA 'C' PLAN - SYSTEMS
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. REFER TO E0.2 FOR GENERAL NOTES.

SHEET KEYNOTES:

1. REINSTALL EXISTING DIGITAL WIRELESS CLOCK.
2. CONNECT SPEAKERS TO EXISTING PUBLIC ADDRESS SYSTEM GENERAL CIRCUIT.
3. PROVIDE NEW HOMERUN INTERCOM CIRCUIT TO EXISTING INTERCOM HEAD-END. REFER TO SHEET ED1.1 FOR HEAD-END LOCATION.
4. REINSTALL EXISTING DEVICE IN THIS LOCATION. REFER TO SHEET ED1.1.

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ENLARGED FLOOR PLAN - SYSTEMS

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