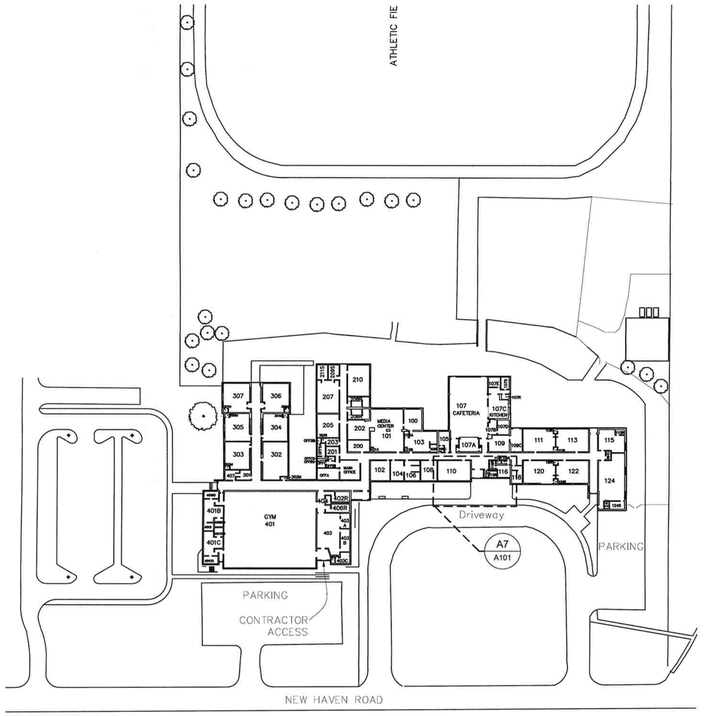
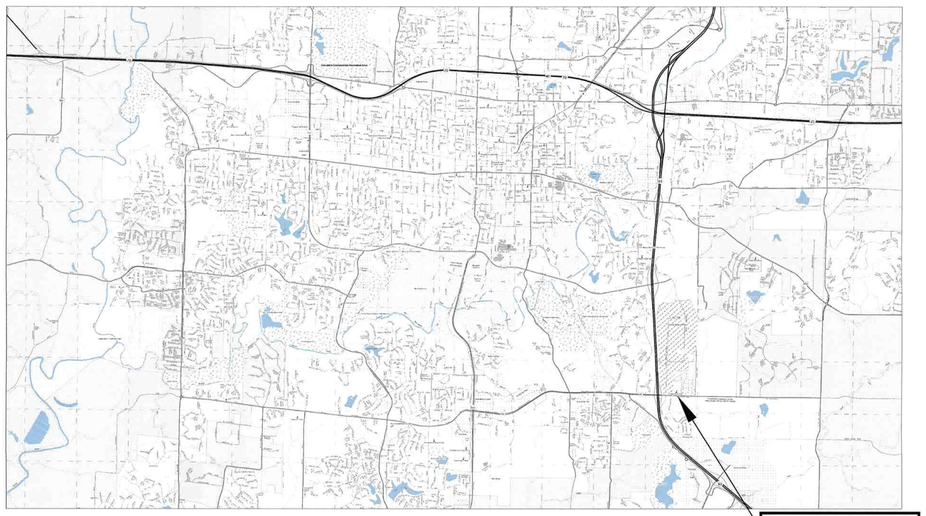
COLUMBIA PUBLIC SCHOOLS

SECURITY & ADA MAIN ENTRANCE AT NEWHAVEN ELEMENTARY

3301 New Haven Road Columbia, MO 65201



E1 SITE - BUILDING PLAN
SCALE: 1" = 75'-0"



A1 AREA MAP
SCALE: N.T.S.

GENERAL	
G001	COVER SHEET
ARCHITECTURAL	
A101	PLANS, ELEVATIONS DOOR SCHEDULE AND DETAILS
A102	SECTIONS AND DETAILS
MECHANICAL, ELECTRICAL & PLUMBING	
ME001	MECHANICAL ELECTRICAL DETAILS & SCHEDULES
ME100	ELECTRICAL PLAN

L13

LARGE SCALE	SMALL SCALE	
BRICK MASONRY UNIT		PLAN, SECTION ELEVATION
CONCRETE MASONRY UNIT		PLAN, SECTION ELEVATION
CONCRETE		PLAN, SECTION
GYPSUM BOARD		PLAN, SECTION ELEVATION
GROUTED AREA OF: CMU/CAVITY/DOOR FRAME		PLAN, SECTION
MISCELLANEOUS ITEMS: AS NOTED ON EACH SHEET		PLAN, SECTION, ELEVATION
INSULATION		PLAN, SECTION
ROOF SHINGLES		PLAN, ELEVATION
CONTINUOUS WOOD FRAMING		PLAN, SECTION
WOOD BLOCKING		PLAN, SECTION
PLYWOOD		PLAN, SECTION
EXISTING BUILDING		PLAN, SECTION

F8 MATERIAL LEGEND
SCALE: NTS

DRAWING BULLET WITH NORTH ARROW
GRID REFERENCE
?? DRAWING TITLE
SCALE: X/X" = 1'-0"
ARCH. SCALE

DRAWING BULLET WITHOUT NORTH ARROW
GRID REFERENCE
A1 A2 A100 DRAWING TITLE
SCALE: X/X" = 1'-0"
ARCH. SCALE
PAGE FIRST REFERENCED (IF APPLICABLE)

ELEVATION BULLETS
A0 A000 GRID REFERENCE SHEET NUMBER
ONE ELEVATION

PLAN/ELEVATION DETAIL BULLET
LIST OF DRAWINGS
SCALE: NTS GRID REFERENCE
A1 A100 SHEET NUMBER

SCOPE OF WORK BULLET
1

WALL TYPE BULLET
X

SECTION BULLET
A1 A100 GRID REFERENCE ALWAYS ON TOP SHEET NUMBER

DOOR MARK BULLET
000A

EQUIPMENT BULLET
A-00

WINDOW MARK BULLET
9

ACCESSORY BULLET
1

NORTH ARROW

REVISION NOTE BULLET
1

GENERAL NOTE BULLET
1

COLUMN LINE BULLETS
1 A

BENCHMARK BULLET
000.00' ***** FLOOR

SPOT ELEV. BULLETS
TC 99.99 TG 99.99 NEW EXISTING
TC - TOP OF CURB TG - TOP OF GRADE TW - TOP OF WALL TP - TOP OF PAVING

F11 SYMBOL LEGEND
SCALE: NTS

FINISH KEY

CPT-1 = WALK OFF CARPET TILE
MOHAWK STEP UP II - COBALT 955

ROOM FINISH SCHEDULE

Room No.	Room Name	Floor	Base	Walls				Ceiling Finish	Remarks
				North	East	South	West		
-	VESTIBULE	CPT-1	RB-1	-	P-1	-	P-1	ACT-1	-
110	OFFICE	EXIST. VCT	RB-1	P-1	P-1	P-1	P-1	ACT-1	-
110A	OFFICE	EXIST. VCT	RB-1	P-1	P-1	P-1	P-1	ACT-1	-
110B	OFFICE	EXIST. VCT	RB-1	P-1	P-1	P-1	P-1	ACT-1	-

FINISH SCHEDULE LEGEND:

PAINT
P-1 - WALLS
SHERWIN WILLIAMS EGG SHELL SW 7105 PURE WHITE, FIELD VERIFY, MATCH EXISTING
P-2 - H.M. DOOR FRAMES
SHERWIN WILLIAMS SEMIGLOSS SW 7602 INDIGO BATIK, FIELD VERIFY, MATCH EXISTING

CARPET
CPT-1 = WALK OFF CARPET TILE MOHAWK STEP UP II - COBALT 955

RESILIENT BASE
RB-1
MFG: JOHNSONITE
COLOR: NAVY 18
SIZE: 4" RUBBER COVE
FIELD VERIFY, MATCH EXISTING

WOOD DOORS
MFG: GRAHAM
TYPE: PLAIN SLICED RED OAK
COLOR: CLEAR
ALUMINUM DOORS
COLOR: CLEAR ANODIZED

ACOUSTICAL CEILING TILE
CERTAINTEED FHF - 157 FINE FISSURED WHITE, FOR CLASSIC ENVIRONMENTAL SQUARE EDGE WHITE SUSPENSION SYSTEM

GENERAL FLOOR PLAN NOTES

1. FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO EXECUTING ANY WORK. NOTIFY ARCHITECT OF ANY DIMENSIONS OR WORK DIFFERING FROM THAT SHOWN, FOR CLARIFICATION BY THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
2. VERIFY ALL ROUGH OPENINGS FOR DOORS, WINDOWS, EQUIPMENT, & OTHER "BUILT-IN" ITEMS PRIOR TO EXECUTION OF ANY WORK AFFECTED BY SAME.
3. LOCATE DOOR OPENINGS WHICH ARE NOT DIMENSIONED OTHERWISE, CENTERED IN WALL AND 6" FROM FINISH WALL TO FINISH JAMB.
4. DO NOT SCALE DRAWINGS - WHERE DIMENSIONAL DISCREPANCIES ARE ENCOUNTERED NOTIFY ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
5. COORDINATE HEIGHTS OF OUTLETS & SWITCHING WITH ALL ARCHITECTURAL ITEMS. SEE M/E DRAWINGS FOR LOCATIONS.

GENERAL REF. CEILING PLAN NOTES

1. FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO EXECUTING ANY WORK. NOTIFY ARCHITECT OF ANY DIMENSIONS OR WORK DIFFERING FROM THAT SHOWN, FOR CLARIFICATION BY THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
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Peckham & Wright Architects, Inc., d.b.a.
PWArchitects, Inc.
2120 Forum Blvd., Ste. 101
Columbia, Missouri 65203
PWArchitects.com | 573.449.2683
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STATE OF MISSOURI JOHN CHRISTOPHER NUMBER A-7512 REGISTERED ARCHITECT
03/25/2021

COLUMBIA PUBLIC SCHOOLS ...AN EXCELLENT EDUCATION FOR ALL STUDENTS

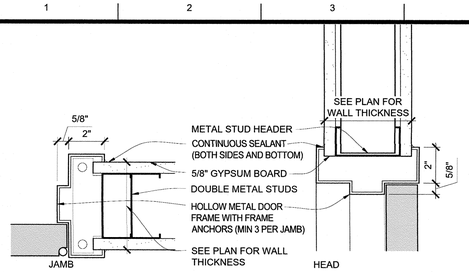
SECURITY & ADA MAIN ENTRANCE AT NEWHAVEN ELEMENTARY
3301 New Haven Road
Columbia, MO 65201

Drawn:	Project Number:
LC	201621.55
Checked:	CAD File Name (Number):
CD	

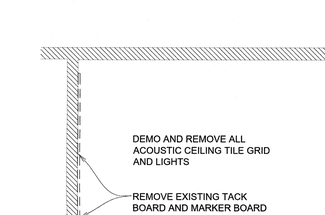
Drawing Title: COVER SHEET

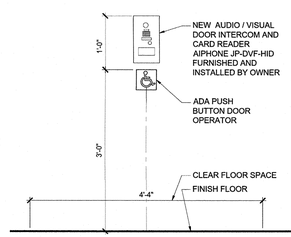
No.	Revisions:	Date:

Submission Date:	Drawing Number:
03/25/21	G001
Plot Date: 03/24/2021	

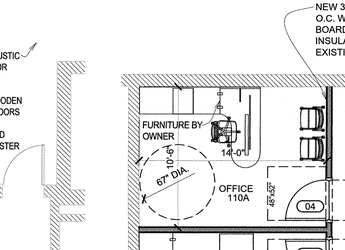


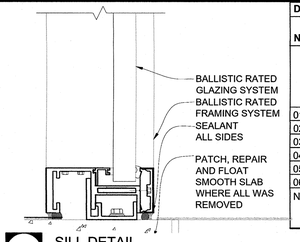
K1 DOOR DETAILS
SCALE: 3" = 1'-0"





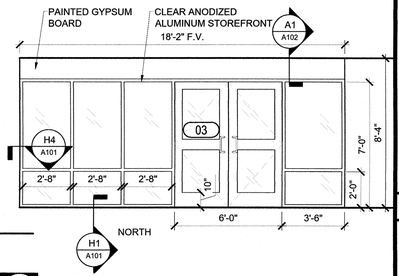
K6 B10/A101 MOUNTING DETAIL
SCALE: 3/4" = 1'-0"



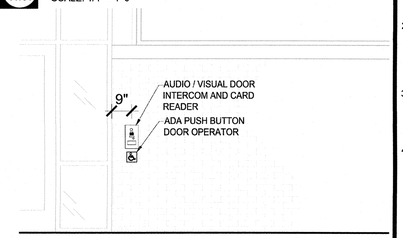


L8 SILL DETAIL
SCALE: 3" = 1'-0"

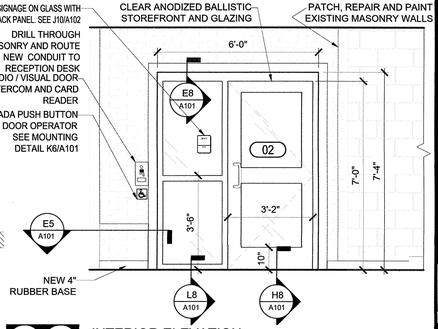
H8 THRESHOLD DETAIL
SCALE: 3" = 1'-0"



H13 B12/A101 INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"

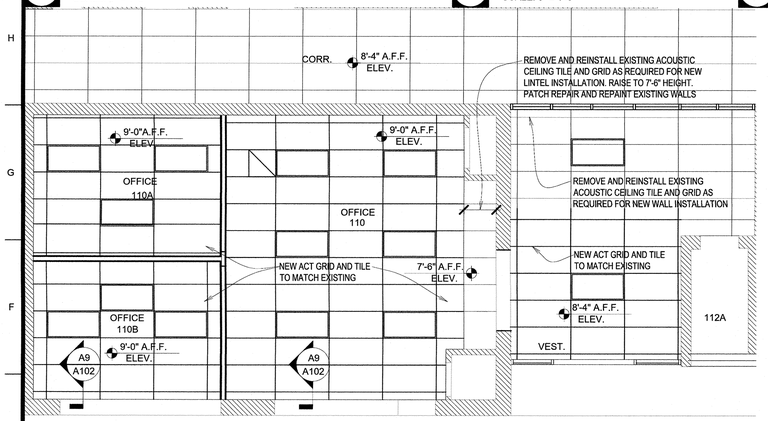


F13 A12/A101 EXTERIOR ELEVATION
SCALE: 3/8" = 1'-0"



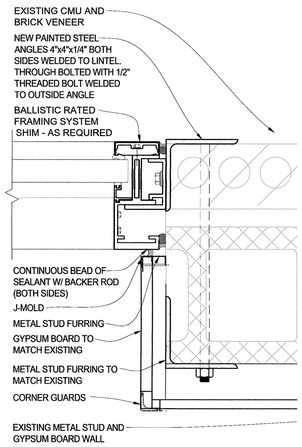
D13 B11/A101 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0"

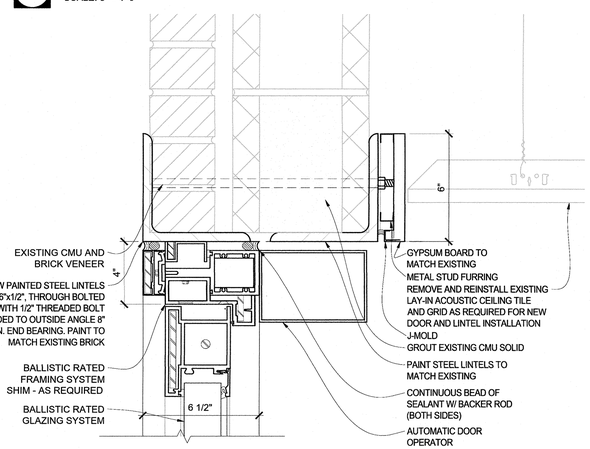
H1 SECTION DETAIL @ SILL
SCALE: 3" = 1'-0"



H4 SECTION DETAIL @ JAMB
SCALE: 3" = 1'-0"

H6 B11/A101 MOUNTING DETAIL
SCALE: 3/4" = 1'-0"

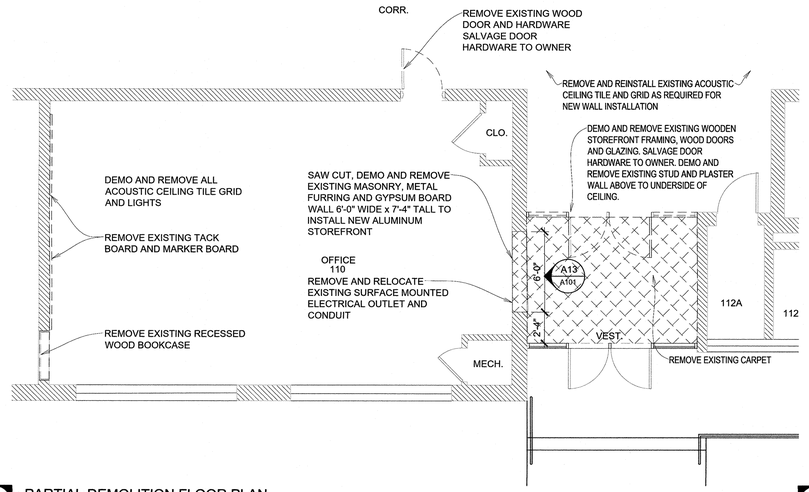




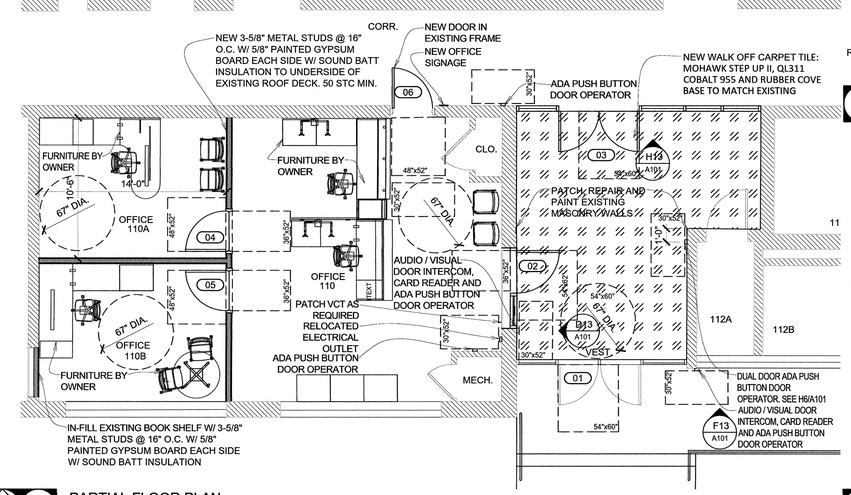
E1 PARTIAL REFLECTED CEILING PLAN
SCALE: 3/16" = 1'-0"

E6 JAMB DETAIL
SCALE: 3" = 1'-0"

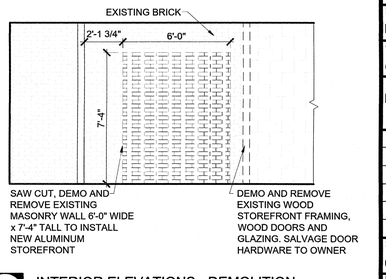
E8 HEAD DETAIL
SCALE: 3" = 1'-0"



A1 PARTIAL DEMOLITION FLOOR PLAN
SCALE: 3/16" = 1'-0"



A7 PARTIAL FLOOR PLAN
SCALE: 3/16" = 1'-0"



A13 B5/A101 INTERIOR ELEVATIONS - DEMOLITION
SCALE: 1/4" = 1'-0"

DOOR SCHEDULE																										HDWR
					Material				GLAZING						FRAME SCHEDULE		Material					Details				
No.	Location	Door Leaf Size (WxH)	Thickness	Door Elevation	Wood	FRP	Aluminum / glass	Hollow Metal	BALLISTIC	BALLISTIC	FIRE RATED	INSULATED	1/4" TEMPERED	Frame Elevation	Wood	Hollow Metal	Aluminum	1/4" TEMPERED	BALLISTIC	Head	Jamb	Threshold		Hardware Group
01	VESTIBULE	EXISTING PAIR 3'-0" x 7'-0"	1-3/4"	-			A							-			A	T		-	-	-		1
02	OFFICE	3'-2" x 7'-0"	2-1/2"	2			A		B	B				02					B	E8 / A101	E5 / A101	H8-L1 / A101		2
03	HALL	PAIR 3'-0" x 7'-0"	1-3/4"	3			A						T	03			A	T		A1 / A102	H4 / A101	H1 / A101		4
04	OFFICE	3'-0" x 7'-0"	1-3/4"	D1	W								T	F1	HM			T		K1 / A101	K1 / A101	-		3
05	OFFICE	3'-0" x 7'-0"	1-3/4"	D1	W								T	F1	HM			T		K1 / A101	K1 / A101	-		3
06	OFFICE	3'-0" x 7'-0"	1-3/4"	D1	W								T	E	-			T		-	-	-		3

NOTES: 1. FOR DOORS 02 AND 03 SEE INTERIOR ELEVATIONS FOR FRAME AND DOOR ELEVATIONS, FOR DOORS 04-06 SEE ELEVATION TYPE 1

GENERAL FLOOR PLAN NOTES

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5. COORDINATE HEIGHTS OF OUTLETS & SWITCHING WITH ALL ARCHITECTURAL ITEMS. SEE M/E DRAWINGS FOR LOCATIONS.
6. ALL WIRING CONCEALED OR IN CONDUIT IN SECURED / NON-PUBLIC SPACES PROVIDED AND INSTALLED BY OWNER.
7. ALL ADA DOOR OPERATORS TO BE WIRELESS

GENERAL REF. CEILING PLAN NOTES

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PWArchitects, Inc.
2120 Forum Blvd., Ste. 101
Columbia, Missouri 65203
PWArchitects.com | 573.449.2683
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JOHN CHRISTOPHER — STATE OF MISSOURI — NUMBER A-7512 — REGISTERED ARCHITECT
03/25/2021

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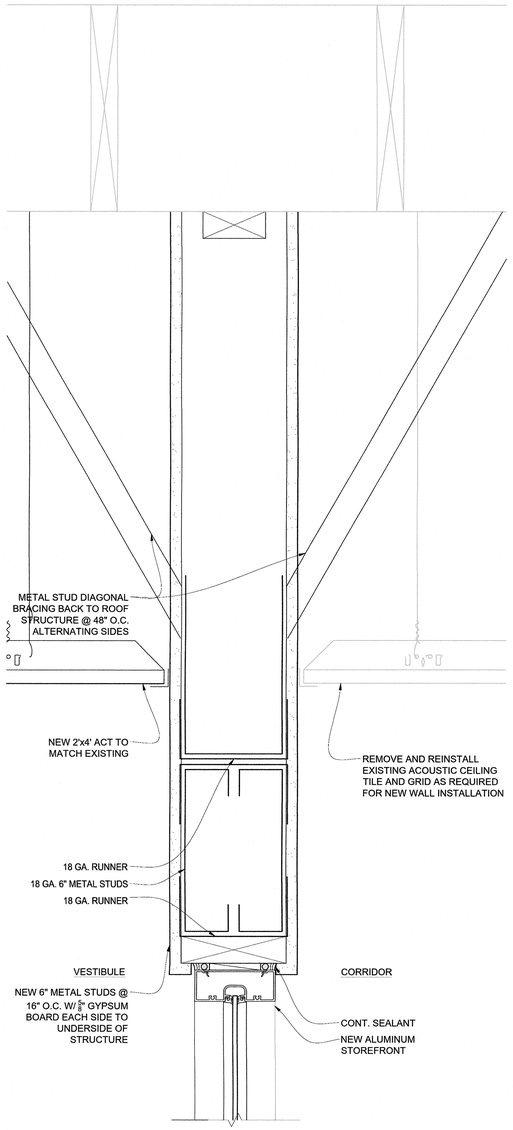
3301 New Haven Road
Columbia, MO 65201

Drawn:	Project Number:
LC	201621.55
Checked:	CAD File Name (Number):
CD	

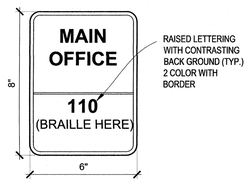
Drawing Title: PLANS, ELEVATIONS AND SCHEDULE

No.	Revisions:	Date:

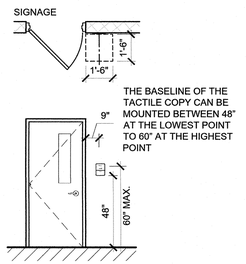
Submission Date: 03/25/21
Plot Date: 03/24/2021
Drawing Number: A101



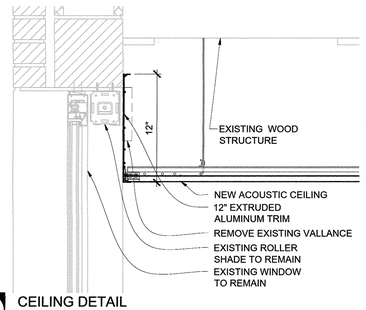
A1 STOREFRONT SECTION DETAIL @ HEAD
SCALE: 3" = 1'-0"



A4 SIGN DETAIL
SCALE: 3" = 1'-0"



A6 TYPICAL SIGN MOUNTING DETAIL
SCALE: 1/4" = 1'-0"



A9 E1 A101 CEILING DETAIL
SCALE: 1 1/2" = 1'-0"

Missouri State Certificate of Authority No. 000244

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3301 New Haven Road
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Drawn:	Project Number:
LC	201621.55
Checked:	CAD File Name (Number):
CD	

Drawing Title:
SECTIONS AND DETAILS

No.	Revisions:	Date:

Submission Date:	Drawing Number:
03/25/21	A102
Plot Date:	
03/24/2021	

POWER SYMBOL LEGEND

- XX / XX — POWER RECEPTACLE; MOUNTING HEIGHT (INCHES) IF OTHER THAN 18" AFF (BOTTOM OF BOX)
- "WP" INDICATES WEATHERPROOF OUTDOOR RECEPTACLE; "AW" INDICATES ABOVE WINDOW RECEPTACLE; "C" INDICATES ABOVE CEILING; "E" INDICATES EXISTING RECEPTACLE TO REMAIN; "T" INDICATES TWIST LOCK RECEPTACLE; "TV" INDICATES CABLE AND 120V OUTLET MOUNTED AT +60" UNLESS NOTED OTHERWISE
- GFI DUPLEX CONVENIENCE OUTLET
- QUADPLEX CONVENIENCE OUTLET
- 208V OUTLET
- USB OUTLET EQUAL TO LEVITON #T5832 OR APPROVED EQUAL
- DATA / TELEPHONE JACK (MOUNTED @ 18" AFF U.N.O.) OUTLET BOX WITH 1" CONDUIT UP TO CEILING SPACE w/ PULL STRING. PHONE & DATA WIRING BY OWNER'S SUBCONTRACTOR. PHONE / DATA CABLING TO BE PLENUM RATED. DATA CABLING TO BE CAT6.
- AP — WIRELESS DATA ACCESS POINT (CEILING MOUNTED)
- FP — N FLOOR POWER (WIREMOLD 880 MP FLOOR BOX OR EQUAL)
- FD — IN FLOOR DATA (WIREMOLD 880 MP FLOOR BOX OR EQUAL)
- J — JUNCTION BOX
- DISC — DISCONNECT
- TIE INTO EXISTING
- ATC — ASTRONOMICAL TIME CLOCK SWITCH EQUAL TO INTERMATIC # ET8215C 120-277V. SET TIMER TO TURN ON LIGHTS FROM DUSK TILL DAWN.

LIGHTING SYMBOL LEGEND

- XL / NL — LIGHTING FIXTURE; UN-SWITCHED NIGHT LIGHT; DARKENED INDICATES FIXTURE WITH EMERGENCY BALLAST; INDICATES FIXTURE TYPE
- TOGGLE SWITCH; TYPE OF SWITCH
- DIMMER SWITCH
- OCC — CEILING MOUNTED OCCUPANCY SENSOR EQUAL TO WATTSTOPPER # DT-355

SECURITY SYMBOL KEY

NOTE: SYMBOLS LEGEND IS COMPREHENSIVE. SOME SYMBOLS OR VARIATIONS THEREOF MAY NOT BE USED ON PLANS. MOUNTING HEIGHTS OF ALL ACCESSIBLE ACCESS CONTROL DEVICES SHALL BE PER ADA REQUIREMENTS LISTED BELOW UNLESS NOTED OTHERWISE. MOUNTING HEIGHTS OF ALL OTHER DEVICES SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.

SECURITY SYMBOL

INDICATES MOUNTING
- C = CEILING
- W = WALL

INDICATES TYPE
- AV = AUDIO / VISUAL INTERCOM (MOUNTED WITH BUTTON CENTERED AT 48" AFF)
- C = CAMERA
- D = DOOR / WINDOW SENSOR MOUNTED ON TOP OF DOOR FRAME / SIDE OF WINDOW FRAME
- EP = ELECTRIFIED PANIC. ROUTE ½" CONDUIT FROM ELECTRIFIED PANIC IN DOOR FRAME TO ACCESSIBLE POINT ABOVE CEILING OR TO J-BOX AT 12'-0" AFF
- G = GLASS BREAK DETECTOR (CEILING MOUNTED U.N.O.)
- K = KEYPAD (WALL MOUNTED w/ TOP ROW OF KEYS @ 48" AFF)
- M = MOTION DETECTOR
- MC = MICROPHONE (CEILING MOUNTED U.N.O.)
- O = DOOR OPERATOR
- PB = PUSH BUTTON (WALL MOUNTED w/ BUTTON CENTERED @ 48" AFF)
- PS = POWER SUPPLY FOR ACCESS CONTROLS LOCATED ABOVE CEILING AT AN ACCESSIBLE POINT. CIRCUIT (120V) AS SHOWN.
- R = CARD READER (WALL MOUNTED w/ READER CENTERED @ 48" AFF)
- ST = POWERED DOOR STRIKE ROUTE ½" CONDUIT FROM STRIKE IN DOOR FRAME TO ACCESSIBLE POINT ABOVE CEILING OR TO JUNCTION BOX @ 12ft AFF IF CEILING IS NOT ACCESSIBLE
- RL = RETRACTABLE LATCH ROUTE ½" CONDUIT FROM STRIKE IN DOOR FRAME TO ACCESSIBLE POINT ABOVE CEILING OR TO JUNCTION BOX @ 12FT AFF IF CEILING IS NOT ACCESSIBLE

INDICATES CAMERA VIEW DIRECTION

BASED ON THE FOLLOWING CODES	
2018	INTERNATIONAL MECHANICAL CODE
2018	INTERNATIONAL PLUMBING CODE
2018	INTERNATIONAL FUEL GAS CODE
2018	INTERNATIONAL FIRE CODE
2017	NATIONAL ELECTRIC CODE
2018	INTERNATIONAL ENERGY CONSERVATION CODE

HVAC SYMBOL LEGEND

- X / X — TYPE OF EQUIPMENT (SEE EQUIPMENT SCHEDULE); REFERENCE NUMBER
- X / X — TYPE OF DIFFUSER (SEE DIFFUSER SCHEDULE); CFM / FACE SIZE
- SUPPLY DIFFUSER; IF OTHER THAN 4-WAY, SHADING INDICATES NO FLOW ZONE
- RETURN GRILLE
- BALANCE DAMPER
- MOTORIZED DAMPER
- BD — BAROMETRIC RELIEF DAMPER
- FD — FIRE RATED DAMPER
- SD — FIRE SMOKE DAMPER
- CD — CEILING RADIATION DAMPER
- SUPPLY DUCT
- RETURN DUCT
- EXHAUST DUCT
- OUTSIDE AIR DUCT
- FLEX DUCT
- VENT / COMBUSTION AIR
- CONDENSATION LINE
- REFRIGERANT LINE
- TIE INTO EXISTING
- T — THERMOSTAT
- CO2 — CO2 DETECTOR
- DS — RETURN DUCT SMOKE DETECTOR; WIRED TO FAN STARTER TO SHUT UNIT(S) DOWN AND SEND ALARM SIGNAL TO FIRE ALARM SYSTEM (IF PRESENT) OR TO REMOTE SOUNDER LOCATED IN AN OCCUPIED SPACE. (EQUAL TO SYSTEM SENSOR #D4120)
- RS — REMOTE SOUNDER WIRED TO RETURN DUCT SMOKE DETECTOR (EQUAL TO SYSTEM SENSOR #MHW).

LIGHTING SCHEDULE

MARK	MANUFACTURER*	MODEL NO.*	TYPE	VOLTS	AMPS	WATTS	LUMENS	CCT (°K)	CRI	LAMPS	MOUNTING	REMARKS
A	METALUX	24FP4735C	2x4 FLAT PANEL	120	0.34	40.4	4990	3500	80	LED	GRID	
E	SURE-LITES	APCH7 UNV R	EM. LT/EXIT COMBO	120	0.17					LED	WALL/CLG	INDICATES APWR1 REMOTE HEAD OVER EXT. DOORS

* OR EQUAL

AIR DEVICES SCHEDULE

MARK	MFR.*	MODEL*	MOUNTING	SERVICE	THROW	FACE SIZE	MATERIAL	FINISH	REMARKS
A	PRICE	SPD	CEILING	SUPPLY	8'	24X24	STEEL	WHITE	
B	PRICE	530	WALL	RETURN	--	AS INDICATED	STEEL	WHITE	
C	PRICE	PDDR	CEILING	RETURN	--	AS INDICATED	STEEL	WHITE	

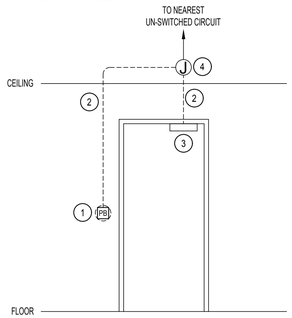
* OR APPROVED EQUAL

DIFFUSER NECK SIZING SCHEDULE

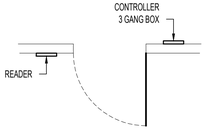
MAX CFM	NECK SIZE
90	6" DIA
200	8" DIA
350	10" DIA
500	12" DIA

KEYED NOTES:

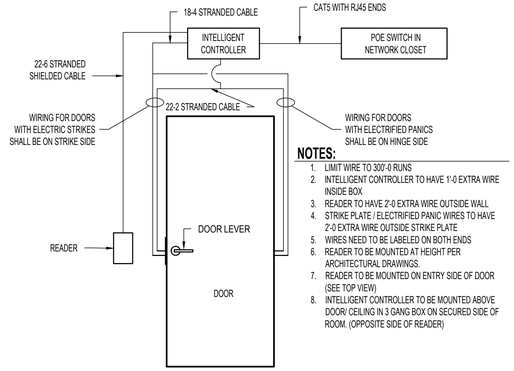
1. J-BOX & ADA PUSH BUTTON MOUNTED PER ARCHITECTURAL PLANS.
2. ½" EMT CONDUIT WITH LOW VOLTAGE CONDUCTORS (SIZE PER OPENER MANUFACTURER'S INSTRUCTIONS). TERMINATE AT PUSH BUTTONS AND AT DOOR OPENER/CONTROLLER.
3. DOOR OPENER/CONTROLLER LOCATED ON DOOR JAMB OR ON DOOR (CONFIRM WITH ARCHITECT/SUPPLIER).
4. J-BOX ABOVE CEILING OR BEHIND DOOR OPENER/CONTROLLER (CONFIRM WITH ARCHITECT/ SUPPLIER). CONNECT TO OPENER/CONTROLLER WITH MC CABLE WITH ADEQUATE SLACK TO ALLOW DOOR OPERATION WITHOUT STRAINING CABLE.



AUTOMATIC DOOR OPERATOR WIRING SCHEMATIC



PLAN VIEW



NOTES:
1. LIMIT WIRE TO 300'-0 RUNS
2. INTELLIGENT CONTROLLER TO HAVE 1'-0 EXTRA WIRE INSIDE BOX
3. READER TO HAVE 2'-0 EXTRA WIRE OUTSIDE WALL
4. STRIKE PLATE / ELECTRIFIED PANIC WIRES TO HAVE 2'-0 EXTRA WIRE OUTSIDE STRIKE PLATE
5. WIRES NEED TO BE LABELED ON BOTH ENDS
6. READER TO BE MOUNTED AT HEIGHT PER ARCHITECTURAL DRAWINGS.
7. READER TO BE MOUNTED ON ENTRY SIDE OF DOOR (SEE TOP VIEW)
8. INTELLIGENT CONTROLLER TO BE MOUNTED ABOVE DOOR/ CEILING IN 3 GANG BOX ON SECURED SIDE OF ROOM. (OPPOSITE SIDE OF READER)

ACCESS CONTROL DETAIL

GENERAL MECHANICAL-ELECTRICAL-PLUMBING SPECIFICATIONS

1. ALL WORK SHALL BE DONE IN STRICT CONFORMANCE WITH THE LOCAL BUILDING CODES.
2. ALL MATERIALS SHALL BE NEW, FIRST CLASS, AND INSTALLED TO MANUFACTURER'S WRITTEN SPECIFICATIONS.
3. ALL SYSTEMS SHALL BE COMPLETE AND OPERABLE IN EVERY WAY.
4. DO ALL EXCAVATION, BACK FILLING, CUTTING, PATCHING, OFFSETTING, ADJUSTING, AND BALANCING AS REQUIRED TO COMPLETE THE JOB.
5. SPECIFIC MODELS ARE SPECIFIED TO ESTABLISH QUALITY ONLY. SUBSTITUTIONS MAY BE MADE WITH ENGINEER'S APPROVAL.
6. GUARANTEE ALL WORKMANSHIP AND MATERIALS FOR ONE YEAR FROM FINAL ACCEPTANCE. PROVIDE FIVE YEAR AIR CONDITIONING COMPRESSOR WARRANTY.
7. INSPECT JOB SITE PRIOR TO BIDDING TO DETERMINE EXACT JOB REQUIREMENTS. SEE ARCHITECTURAL DRAWINGS FOR CONSTRUCTION DETAILS.
8. ARCHITECTURAL DRAWING DIMENSIONS SHALL GOVERN IN ALL CASES. COORDINATE ENGINEERING DRAWINGS WITH ARCHITECTURAL DRAWINGS FOR ALL EQUIPMENT LAYOUTS AND LOCATIONS.
9. LAYOUTS AND ROUTINGS SHOWN ON THE PLANS ARE APPROXIMATE AND GENERAL IN NATURE. CONTRACTORS ARE REQUIRED TO INSPECT THE JOBSITE FOR INTERFERENCES, OBSTRUCTIONS, AND CONFLICTS AND NOTIFY THE ENGINEER OF THE SAME, AND INCLUDE IN THEIR BID AND WORK SCOPE ALL ASSOCIATED COSTS TO MODIFY THE LAYOUTS AND ROUTINGS AS NECESSARY TO ACCOMMODATE THE INSTALLATION OF THEIR WORK AROUND SUCH INTERFERENCES, OBSTRUCTIONS, AND CONFLICTS.
10. CONTRACTOR IS TO INCLUDE COSTS FOR ALL PERMITS, INSPECTIONS, TAPS, METERS & FUEL ASSOCIATED WITH HIS WORK.
11. CONTRACTOR IS RESPONSIBLE FOR REVIEWING AND UNDERSTANDING ALL DRAWINGS AND ASPECTS OF THE PROJECT SCOPE, AND FOR INCLUDING IN HIS BID ALL WORK ASSOCIATED WITH HIS TRADE, REGARDLESS OF WHICH DRAWING OR SHEET IT IS SHOWN ON.

HVAC SPECIFICATIONS

1. INSULATION:
   - 1.1. ALL INTERNAL DUCT LINER TO BE 1" AND EQUAL TO "CERTAINTEED TOUGHGUARD T" UNLESS NOTED OTHERWISE.
   - 1.2. ALL DUCT WRAP SHALL BE 2" WITH VAPOR BARRIER EQUAL TO "CERTAINTEED SOFTTOUCH DUCT WRAP WITH FSK JACKET" UNLESS NOTED OTHERWISE.
   - 1.3. EXHAUST AIR DUCTS IN UNCONDITIONED SPACES SHALL HAVE DUCT WRAP.
   - 1.4. OUTDOOR AIR DUCTS IN CONDITIONED SPACES SHALL HAVE DUCT WRAP.
   - 1.5. ALL EXTERIOR DUCTS SHALL HAVE 2" THICK CLOSED CELL FLEXIBLE ELASTOMERIC DUCT WRAP AND 26 GA ALUMINUM JACKET WITH OVERLAPPED SEAMS SEALED WATERTIGHT AND SLOPED TO AID DRAINAGE.
   - 1.6. REFRIGERANT PIPING:
     - 1.6.1. SPLIT SYSTEMS - SUCTION LINE ONLY TO BE 1/2" ARMAFLEX.
     - 1.6.2. VRV / VRF SPLIT SYSTEMS - BOTH SUCTION AND LIQUID LINES TO BE AS FOLLOWS: 3/4" ARMAFLEX FOR 3/8" THRU 7/8" PIPES; 1" ARMAFLEX FOR 1 1/8" THRU 1 5/8" PIPES
   - 1.7. CONDENSATE PIPING: 1/2" ARMAFLEX IN UNCONDITIONED SPACES ONLY.
2. ALL DUCTWORK SHALL BE MIN. 26 GA. UP TO 16", 24 GA UP TO 20", 22 GA. UP TO 24", 20 GA. UP TO 26", AND 18 GA. UP TO 36" OF GALVANIZED STEEL, SEALING CLASS "B", FABRICATED AND INSTALLED IN STRICT CONFORMANCE TO SMACNA SPECIFICATIONS. ALL TEES, ELBOWS, OR CHANGES IN DIRECTIONS SHALL HAVE TURNING VANES.
3. AIR CONDITIONING EQUIPMENT SHALL BE AS SPECIFIED ON DRAWINGS, UNLESS APPROVED OTHERWISE BY THE ENGINEER. EQUIPMENT SHALL BE 'COMMERCIAL' RATED IN ALL CASES EXCEPT RESIDENTIAL APPLICATIONS.
4. GRILLES AND REGISTERS SHALL BE PRICE, OR APPROVED EQUAL.
5. ALL TEMPERATURE CONTROLS SHALL BE MIN. 18 GA. COPPER, PLENUM RATED CABLE. ROUGH-IN SHALL BE BY ELECTRICAL CONTRACTOR.
6. DUCTWORK DIMENSIONS ARE INSIDE DIMENSIONS.
7. ALL HORIZONTAL FURNACES MUST BE EQUIPPED WITH GALVANIZED STEEL DRAIN PAN, WITH DRAIN PIPED TO FLOOR DRAIN OR INDIRECT WASTE, IN AN OBVIOUS, VISIBLE LOCATION, PER IPC.
8. ALL SUPPLY BRANCHES TO INDIVIDUAL DIFFUSERS MUST BE SUPPLIED WITH BALANCING DAMPERS; WHERE BRANCH TAKEOFFS ARE INACCESSIBLE (ATTICS, SOFFITS, ETC) BALANCE DAMPER SHALL BE PROVIDED AT FACE OF DIFFUSER, WHERE BRANCH TAKEOFFS ARE ACCESSIBLE (ABOVE DROP CEILING, EXPOSED DUCTS, ETC) BALANCE DAMPER SHALL BE LOCATED AT BRANCH TAKEOFF.
9. ALL SYSTEMS MUST BE FIELD BALANCED TO WITHIN 10% OF THE DESIGN FLOWS INDICATED ON THE DRAWINGS. CERTIFIED AIR BALANCING IS NOT REQUIRED. CONTRACTOR MUST SUBMIT BALANCING REPORT PRIOR TO RECEIVING FINAL PAYMENT.
10. FLEX DUCT (THERMAFLEX M-KE OR EQUAL) IS ALLOWED FOR FINAL CONNECTION FROM STEEL DUCTWORK TO AIR TERMINAL DEVICES ONLY, LENGTHS NOT TO EXCEED 8'-0", AND SUPPORTED AS SHOWN ON HVAC DETAILS SHEET.
11. MINIMUM SPLIT SYSTEM EFFICIENCIES FOR HEATING AND COOLING SHALL BE:
    - 11.6. HEATING AFUE = 90%
    - 11.7. COOLING SEER = PER LATEST EDITION OF ASHRAE 90.1
12. MINIMUM ROOFTOP UNIT EFFICIENCIES SHALL MEET STANDARDS PER LATEST EDITION OF ASHRAE 90.1.
13. FINAL CONNECTIONS TO AIR HANDLING EQUIPMENT ARE NOT SHOWN. CONTRACTOR TO INCLUDE TRANSITIONS AND FITTINGS AS REQUIRED TO TRANSITION FROM EQUIPMENT DUCT CONNECTION SIZES TO TRUNK LINE SIZES SHOWN ON PLANS.
14. DUCTWORK SHALL NOT BE INSTALLED SUCH THAT IT RESTRICTS ACCESS TO ELECTRICAL JUNCTION BOXES OR DIRECTLY OVER ELECTRICAL PANELS.
15. REFRIGERANT PIPING MUST BE COPPER TYPE ACR OR TYPE L.
16. AIR CONDITIONING EQUIPMENT TO BE INSTALLED LEVEL AND PLUMB. ROOFTOP UNITS AND FANS SHALL BE ON FACTORY ROOF CURBS. ROOFTOP MOUNTED CONDENSING UNITS SHALL BE MOUNTED ON TREATED 4X4'S WHICH ARE PLACED ON A WALK MAT COMPATIBLE WITH THE ROOFING SYSTEM, TO BE PURCHASED FROM THE ROOFING CONTRACTOR. ROOFTOP MOUNTED PIPING AND VRV/VRF EQUIPMENT SHALL BE ON A SUPPORT FRAME MOUNTED TO "ROOFTOP BLOX". GROUND-MOUNTED EQUIPMENT TO BE ON 4-INCH THICK, REINFORCED CONCRETE BASE THAT IS 4 INCHES LARGER, ON EACH SIDE, THAN UNIT.
17. ALL EQUIPMENT LOCATED OUTDOORS SHALL BE EQUIPPED WITH FACTORY HAIL GUARDS TO PROTECT EXPOSED COILS.
18. EQUIPMENT LOCATIONS SHOWN ON PLANS ARE APPROXIMATE. CONTRACTOR TO CONFIRM THAT EQUIPMENT MOUNTED GREATER THAN 30" ABOVE ADJACENT GRADE, SHALL BE LOCATED MINIMUM 10'-0" FROM EDGE, UNLESS A GUARD OR PARAPET (MIN. 42" TALL) PROTECTS THE EDGE.
19. PROTECT DUCT INTERIORS FROM MOISTURE, DEBRIS, DUST & FOREIGN MATERIALS IN ACCORDANCE WITH SMACNA "DUCT CLEANLINESS FOR NEW CONSTRUCTION GUIDELINES".

ELECTRICAL SPECIFICATIONS

1. ALL CONDUCTORS SHALL BE THHN COPPER ABOVE GRADE, XHHW-2 BELOW GRADE, MINIMUM #12 OR LARGER AS REQUIRED OR SHOWN.
2. ALL SERVICE WIRING, EXPOSED TO WEATHER, OR WIRING BELOW GRADE, SHALL BE IN RIGID GALVANIZED CONDUIT OR SCH. 40 PVC.
3. ALL OTHER WIRING SHALL BE IN EMT, SCHEDULE 40 PVC, OR MC CABLE, UNLESS PROTECTED AND ENCLOSED WITHIN BUILDING MATERIALS, IN WHICH CASE TYPE NM CABLE MAY BE USED.
4. WALL SWITCHES SHALL BE LEVITON #CS120 SERIES, OR APPROVED EQUAL, 20A, COLOR SHALL BE DETERMINED BY ARCHITECT. DIMMER SWITCHES SHALL BE SELECTED BY CONTRACTOR TO BE COMPATIBLE WITH LIGHT FIXTURES PROVIDED, COLOR SHALL BE DETERMINED BY ARCHITECT.
5. DUPLEX RECEPTACLES SHALL BE TAMPER RESISTANT LEVITON #T580 SERIES, OR APPROVED EQUAL, 20A, GROUNDING, MATCHING COVER PLATE, COLOR AS DETERMINED BY ARCHITECT. USE SIDE WIRING ONLY.
6. ARC-FAULT CIRCUIT INTERRUPTER BREAKERS SHALL BE COMBINATION TYPE BY SQUARE D, AND SHALL HAVE A DEDICATED NEUTRAL WIRE THROUGHOUT THE CIRCUIT.
7. THE ENTIRE SYSTEM SHALL BE ELECTRICALLY CONTINUOUS AND PROPERLY GROUNDED. EVERY FEEDER AND BRANCH CONDUIT SHALL HAVE CODE SIZED GREEN INSULATED GROUND CONDUCTOR.
8. FURNISH AND INSTALL ALL LIGHTING FIXTURES, LAMPS, FUSES, BREAKERS, ETC. TO COMPLETE THE BRANCH CIRCUITS INDICATED.
9. ALL 120V, 20A LIGHTING AND RECEPTACLE CIRCUITS REQUIRING MORE THAN 100' OF CONDUCTORS (ONE WAY) SHALL BE #10 CONDUCTORS, MINIMUM.
10. PROVIDE TYPEWRITTEN BREAKER SCHEDULE IN EACH PANELBOARD INDICATING ITEMS AND DEVICES SERVED BY ALL BREAKERS IN EACH PANEL.
11. PERMANENTLY LABEL DISCONNECTS FOR HVAC EQUIPMENT WITH EQUIPMENT SERVED, AND PANEL AND CIRCUIT NUMBER.
12. UNDERGROUND SPLICES TO BE MADE WITH DEVICES RATED FOR THAT APPLICATION.
13. ALL ELECTRICAL PANELS AND DISCONNECTS SHALL HAVE A PERMANENT ARC-FLASH LABEL AFFIXED PER NEC 110.16.
14. ROUGH-IN FOR TEMPERATURE CONTROLS SHALL BE BY ELECTRICAL CONTRACTOR. REFER TO MECHANICAL PLANS AND DETAILS.

Peckham & Wright Architects, Inc., d.b.a.
PWArchitects, Inc.
2120 Forum Blvd, Suite 101
Columbia, Missouri 65203
PWArchitects.com | 573.449.2683
Peckham & Wright Architects an Architectural Corporation

Timberlake ENGINEERING
A Custom Engineering Company
912 Old 63 South Columbia, MO 65201
ph: 573.875.4365

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MARCH 25th, 2021

RUSSELL VINSON, P.E. PE-2011015810
CERTIFICATE OF AUTHORITY
TO OFFER ENGINEERING SERVICES
CUSTOM ENGINEERING, INC.
CERTIFICATE OF AUTHORITY #: 000239

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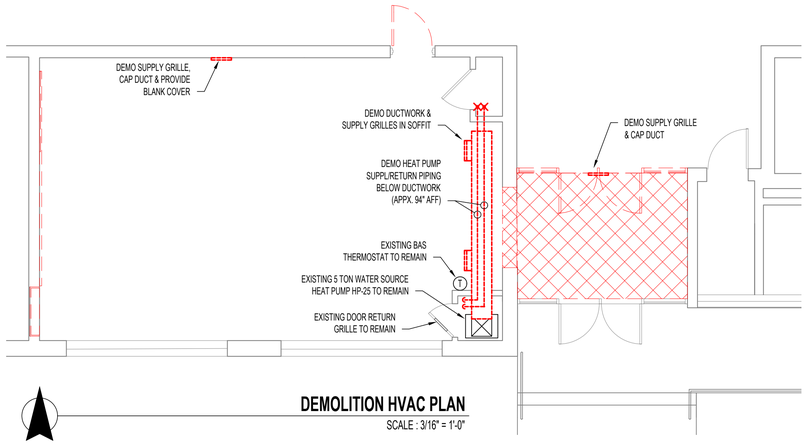
SECURITY & ADA MAIN ENTRANCE AT NEWHAVEN ELEMENTARY
3301 New Haven Road
Columbia, MO 65201

Drawn:	TE Project Number:
RV	21013
Checked:	PWA Project Number:
RV	201621.54

Drawing Title: MECHANICAL ELECTRICAL DETAILS & SCHEDULES

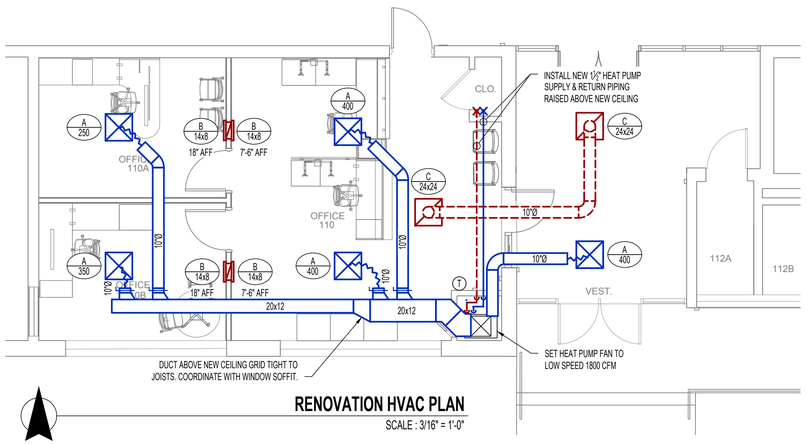
No.	Revisions:	Date:
	100% CD PERMIT & BID	03/25/2021

Submission Date: 03/25/2021
Plot Date: 03/23/2021
Drawing Number: ME001



DEMOLITION HVAC PLAN

SCALE : 3/16" = 1'-0"



RENOVATION HVAC PLAN

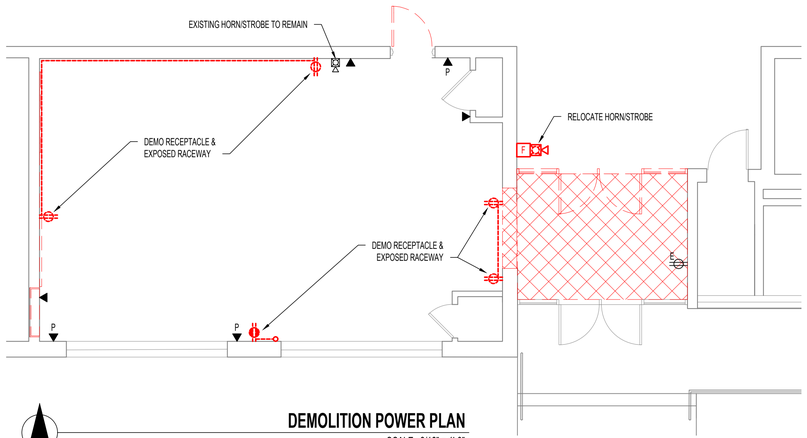
SCALE : 3/16" = 1'-0"

GENERAL NOTES

1. SECURITY DEVICE ROUGH-IN IS BY ELECTRICAL CONTRACTOR. ELECTRONIC STRIKES & WIRING BY ELECTRICAL CONTRACTOR, ALL OTHER WIRING & DEVICES BY CPS SUBCONTRACTOR.
2. ALL ELECTRICAL CONDUIT & WIRING SHALL BE RUN IN PARALLEL OR WITH BUILDING LINES.
3. ALL WIRING SHALL BE RUN TIGHT TO BOTTOM OF JOIST, WHERE POSSIBLE.
4. PROVIDE AND INSTALL J-HOOKS AT 5'-0 O.C. FOR ALL NEW DATA CABLING TO DATA CONDUIT SUPPLYING JACK IN WALL.
5. ALL PHONE, DATA, INTERCOM WIRING SHALL BE INSTALLED BY OWNERS SUB CONTRACTOR. ELECTRICIANS SHALL INSTALL BOXES AND CONDUIT ONLY IN LOCATIONS INDICATED.

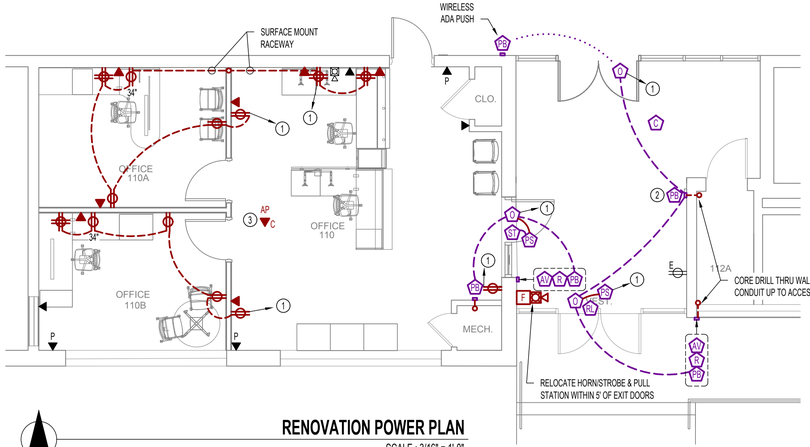
KEY NOTES

1. PROVIDE NEW 20A CIRCUIT FROM EXISTING PANEL.
2. NEW ADA DOUBLE PUSH BUTTON. COORDINATE LOCATION AND ELEVATION WITH ARCHITECTURAL DRAWINGS. PROVIDE ¾" CONDUIT THRU WALL INTO CLOSET AND UP TO ACCESSIBLE CEILING.
3. PROVIDE DATA FOR ACCESS POINT TO ACCESSIBLE LOCATION ABOVE CEILING.



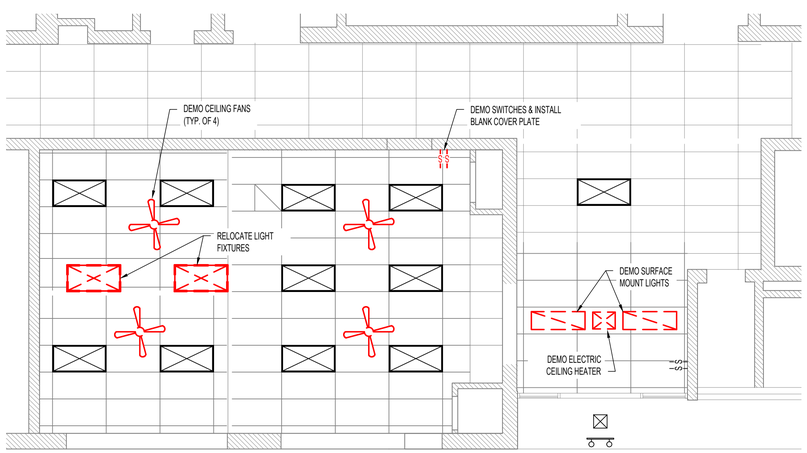
DEMOLITION POWER PLAN

SCALE : 3/16" = 1'-0"



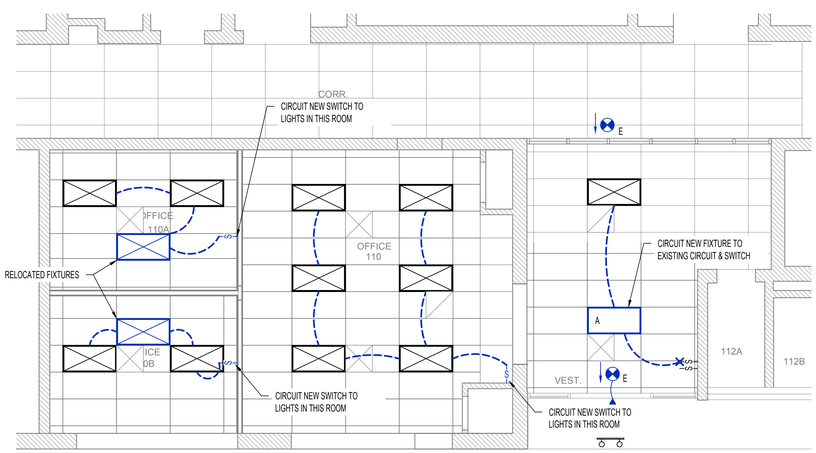
RENOVATION POWER PLAN

SCALE : 3/16" = 1'-0"



DEMOLITION LIGHTING PLAN

SCALE : 3/16" = 1'-0"



RENOVATION LIGHTING PLAN

SCALE : 3/16" = 1'-0"

Peckham & Wright Architects, Inc., d.b.a.
PWArchitects, Inc.
2120 Forum Blvd, Suite 101
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RUSSELL VINSON NUMBER E-2011015810 REGISTERED PROFESSIONAL ENGINEER

MARCH 25th, 2021

RUSSELL VINSON, P.E. PE-2011015810
CERTIFICATE OF AUTHORITY
TO OFFER ENGINEERING SERVICES
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Drawn: RV	TE Project Number: 21013
Checked: RV	PWA Project Number: 201621.54

Drawing Title: MECHANICAL ELECTRICAL PLANS

No.	Revisions:	Date:
	100% CD PERMIT & BID	03/25/2021

Submission Date: 03/25/2021	Drawing Number: ME100
Plot Date: 03/23/2021	