2018 APPENDIX B		
<b>BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS</b>		
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)		

	(EXCEPT 1 (Reprod	AND 2-FA	AMILY DWE owing data on t	LLINGS AND T he building plans	<b>OWNHOUSES</b> sheet 1 or 2)	)
Name of Project	•	Auditorium	Renovations C	C Spaulding Elen	nentary, Main Bld	9
Address:	1531 S Rox		Irham NC 2770			ode
	ed Agent: Du				_ E-Mai	bernard.hall@dpsn ate
Owned By: Code Enforceme	ent Iurisdiction	City/	County	Private County		
CONTACT:					7751 57940477 #	
DESIGNER Architectural Civil	FIRM Bute,PLL		indsey Bute	LICENSE # NC 5824	TELEPHONE # 919.491.9105	E-MAIL Lindsey@buteplic.com
Electrical Fire Alarm	Edmondson Eng	gineers	Dennis Hays	28869	(919.544.1936	Dennis.hays@edmor onengineers.com
Plumbing Mechanical						
Sprinkler-Standg Structural	Sarmiran,	PLLC	James Czar	NC 29015	( ) (919.241.8745	James@sarmiran.c
Retaining Walls Other						
"Other" should	include firms and	individuals	such as truss, p	precast, pre-engine	ered, interior desi	gners, etc.)
2018 NC EXIST	[ [ [] [] [] [] [] [] [] [] [] [] [] []	Shell/Co procedur Phased ( possible	es and requiren Construction - S additional proc XISTING:	<ul> <li>local inspection j nents</li> <li>hell/Core- Contac</li> <li>edures and require</li> <li>Prescriptive</li> </ul>	t the local inspect ments	ion jurisdiction for Chapter 14
CONSTRU RENOVAT	CTED: (date) ED: (date) _1	1954 975,2009	CURRE	X Level I Historic Proper NT OCCUPANC SED OCCUPANC	ty [] Y(S) (Ch. 3):	Level III Change of Use E,A1, A2,A3 E,A1, A2, A3
RISK CATEGO	<b>)RY</b> (Table 1604.	5):	Current:		I IV I IV	
Fire District: Special Inspecti	No Yes			Area: No ne local inspection as and requirement		dditional
FLOOR	Existing		ross Building A New	Area Table (SQ FT)	SU	3-TOTAL
3 <sup>rd</sup> Floor 2 <sup>nd</sup> Floor	23560	(3Q11)	0			23560
Mezzanine						
1 <sup>st</sup> Floor Basement	21536		0			21536
TOTAL	45096	name ar a constant of the later from the later of the later				45096
			ALLOWABL	E AREA		
Assembly Business Educational Factory Hazardous	F-1 Moderate         H-1 Detonate         I-1 Conditio         I-2 Condition         I-3 Condition	2 A-3 e F-2 L e H-2 I n 1 [ n 1 ]	ow	A-5 I-3 Combust □ F □ 4 □ 5	I-4 Health 🔲 H-	5 HPM
Mercantile Residential Storage		e 🗌 S-2		igh-piled	e	
Accessory Occu	Aiscellaneous pancy Classificat	Lion(s):	A1, A2, A	3		
ncidental Uses	(Table 509): _		and a film world the sector films			
-	hapter 4 – List Co ns: (Chapter 5 –					
fixed Occupan		X Yes	, , , , , , , , , , , , , , , , , , , ,	Hr. H	Exception:	······································
-	•	08.3) - The app occ	e required type of lying the height upancies to the		the building shall ons for each of the he most restrictiv	e type of
🗌 Sepa	urated Use (508.4)	be such t	hat the sum of t	lations for each stu he ratios of the act for each use shall	tual floor area of e	e occupancy shall each use divided by
	al Area of Occupa ale Area of Occupa			ea of Occupancy <u>I</u> rea of Occupancy		

+ \_\_\_\_\_ + ..... = \_\_\_\_\_ ≤ 1.00

STORY	DESCRIPTION AND	(A)	(B)	(C)	(D)
NO.	USE	BLDG AREA PER	TABLE 506.24	AREA FOR FRONTAGE	ALLOWABLE AREA PER
		STORY (ACTUAL)	AREA	INCREASE <sup>1,5</sup>	STORY OR UNLIMITED2,3
1	E,A2,A3	21,536	15,500	73%	26,816
2	E,A1	23,560	15,500	73%	26,816

Frontage area increases from Section 506.3 are computed thus: a. Perimeter which fronts a public way or open space having 20 feet minimum width = <u>1232</u> (F)
b. Total Building Perimeter = <u>1248</u> (P) b. Total Building Perimeter = 1248 (P) c. Ratio (F/P) = ...98 (F/P) d. W = Minimum width of public way = 30 (W)

e. Percent of frontage increase  $I_f = 100[F/P - 0.25] \times W/30 = _____{(\%)}$ 

<sup>2</sup> Unlimited area applicable under conditions of Section 507.

<sup>3</sup> Maximum Building Area = total number of stories in the building x D (maximum3 stories) (506.2). <sup>4</sup> The maximum area of open parking garages must comply with Table 406.5.4. <sup>5</sup> Frontage increase is based on the unsprinklered area value in Table 506.2.

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3) <sup>2</sup>	65	28	
Building Height in Stories (Table 504.4) <sup>3</sup>	3	2	

	FIRE	PROTE	CTION REQU	REMENT	'S
BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	REQ'D	RATING PROVIDED (W/* REDUCTION)	DETAIL # AND SHEET #	DE I R ASS
Structural Frame, including columns, girders, trusses		1			
Bearing Walls					
Exterior		1			
North					
East					
West					
South					
Interior					
Nonbearing Walls and Partitions					
Exterior walls					
North					
East					
West	****				
South					
Interior walls and partitions					
Floor Construction					
Including supporting beams		1			
and joists					
Floor Ceiling Assembly					
Columns Supporting Floors					
Roof Construction, including supporting beams and joists		1	UI P269 sim.		
Roof Ceiling Assembly					
Columns Supporting Roof					
Shaft Enclosures - Exit					
Shaft Enclosures - Other					
Corridor Separation					
Occupancy/Fire Barrier Separati	on				
Party/Fire Wall Separation					
Smoke Barrier Separation					
Smoke Partition					
Tenant/Dwelling Unit/ Sleeping Unit Separation					
Incidental Use Separation	1				
Indicate section number permi	itting reduction				

Fire Separation Distance (Feet) from Property lines	PERCENTAGE OF WA Degree of openings Protection	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
	(TABLE 705.8)	(70)	(/0)
·····			
	AND		and a second
	LIFE SAFETY SYSTEM	A REQUIREMENTS	
Emergency Lighting:	No X Yes	A REQUIREMENTS	
Exit Signs:	No X Yes	A REQUIREMENTS	
	☐ No 🛛 Yes ☐ No 🕅 Yes ☐ No 🕅 Yes	-	
Exit Signs: Fire Alarm:	No X Yes	-	
Exit Signs: Fire Alarm: Smoke Detection Systems:	□ No 🛛 Yes □ No 🕄 Yes □ No 🕄 Yes □ No □ Yes □ Parti	al	

Fire and/or smoke rated wall locations (Chapter 7)

Assumed and real property line locations (if not on the site plan) Exterior wall opening area with respect to distance to assumed property lines Occupancy Use for each area as it relates to occupant load calculation (Table

Dead end lengths (1020.4)

SEISMIC DESIGN CATEGORY: A D D Provide the following Seismic Design Parameters: Risk Category (Table 1604.5) I II II II II Spectral Response Acceleration Ss\_15.3\_%g S<sub>1</sub> 7.6 %g Site Classification (ASCE 7) A B C X D E F Data Source: Field Test X Presumptive Historical Data ctural system Bearing Wall Dual w/Special Moment Frame Building Frame Dual w/Intermediate R/C or Special Steel Moment Frame Inverted Pendulum purposes of occupancy separation Analysis Procedure: Simplified X Equivalent Lateral Force Dynamic Architectural, Mechanical, Components anchored? Yes X No LATERAL DESIGN CONTROL: Earthquake 🗌 Wind 🛛 Location of doors equipped with hold-open devices SOIL BEARING CAPACITIES: Field Test (provide copy of test report) Presumptive Bearing capacity Pile size, type, and capacity **BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS** MECHANICAL DESIGN (PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE) TYPE B UNITS ACCESSIBLE UNITS MECHANICAL SUMMARY PROVIDED MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT **Thermal Zone** ACCESSIBLE PARKING winter dry bulb: EXISTING (SECTION 1106) summer dry bulb: TOTAL # Interior design conditions ACCESSIBLE winter dry bulb: PROVIDED 8' ACCES summer dry bulb: relative humidity: **Building heating load:** -----**Building cooling load:** -----PLUMBING FIXTURE REQUIREMENTS Mechanical Spacing Conditioning System (TABLE 2902.1) Unitary description of unit: heating efficiency: DRINKING FOUNTAINS cooling efficiency: REGULAR ACCESSIE size category of unit: Boiler Size category. If oversized, state reason. Chiller Size category. If oversized, state reason .: SPECIAL APPROVALS List equipment efficiencies: 2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS ELECTRICAL DESIGN (PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE) ELECTRICAL SUMMARY ELECTRICAL SYSTEM AND EQUIPMENT Method of Compliance: Energy Code Performance ASHRAE 90.1 
Performance Prescriptive Lighting schedule (each fixture type) lamp type required in fixture number of lamps in fixture ballast type used in the fixture number of ballasts in fixture total wattage per fixture total interior wattage specified vs. allowed (whole building or space by space) total exterior wattage specified vs. allowed

Occupant loads for each area Exit access travel distances (1017) Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1)) Clear exit widths for each exit door Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3) Actual occupant load for each exit door A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for Location of doors with panic hardware (1010.1.10) Location of doors with delayed egress locks and the amount of delay (1010.1.9.7) Location of doors with electromagnetic egress locks (1010.1.9.9) Location of emergency escape windows (1030) The square footage of each fire area (202) The square footage of each smoke compartment for Occupancy Classification I-2 (407.5) Note any code exceptions or table notes that may have been utilized regarding the items above

Special approval: (Local Jurisdiction, Department of Insurance, OSC, /DPI, DHHS, etc., describe below)

NITS UNITS	ACCESSIBLE	TYPE A	TYPE A	TYPE B	
NITS UNITS REQUIRED	UNITS PROVIDED	UN NOT A	PROVIDED	UNITS REQUIRED	P

			(SECTION HOG	9	
LOT OR PARKING	TOTAL # OF PA	RKING SPACES	# OF ACC	ESSIBLE SPACES PR	ov
AREA	REQUIRED	PROVIDED	REGULAR WITH	VAN SPAC	
			5' ACCESS AISLE	132" ACCESS AISLE	
			EXISTING		F
TOTAL			1		+

	USE		WATERCLOSETS		URINALS	LAVATORIES			SHO
		MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX	
SPACE	EXIST'G								
	NEW				EXI	STING			
	REQ'D								

SIGN # FOR ATED EMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS

**ENERGY SUMMARY** 

also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

The following data shall be considered minimum and any special attribute required to meet the energy code shall

Existing building envelope complies with code: 🛛 No 🗍 Yes (The remainder of this section is not applicable)

ASHRAE 90.1 Performance

(If "Other" specify source here)\_

28.8

12" masonny

Floors over unconditioned space (each assembly) Not applicable at Auditorium

-----

Snow (Is)

Mezzanine

15

Ultimate Wind Speed

Exposure Category B

Roof

Floor

Seismic (I<sub>E</sub>)

Not applicable at Auditorium

**2018 APPENDIX B** 

**BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS** STRUCTURAL DESIGN (PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

1.25

20 psf

\_\_\_\_\_ mph (ASCE-7)

\_\_\_\_\_\_ psf \_\_\_\_\_\_ psf

Not applicable at Auditorium

Prescriptive

Prescriptive

PVC membrane over rigid insulation, gypsum deck, steel structure

Exempt Building: No Yes (Provide code or statutory reference):

Method of Compliance: Energy Code Derformance

Climate Zone: 3A 4A 5A

THERMAL ENVELOPE (Prescriptive method only)

Roof/ceiling Assembly (each assembly) Description of assembly:

U-Value of total assembly:

Skylights in each assembly:

Exterior Walls (each assembly) Existing

Description of assembly:

U-Value of total assembly: R-Value of insulation:

Walls below grade (each assembly)

Description of assembly:

R-Value of insulation:

Description of assembly:

Description of assembly: U-Value of total assembly:

R-Value of insulation: Horizontal/vertical requirement:

Floors slab on grade

Importance Factors:

**Ground Snow Load:** 

Live Loads:

Wind Load:

**DESIGN LOADS** 

slab heated:

U-Value of total assembly: R-Value of insulation:

U-Value of total assembly:

U-Value of skylight:

Openings (windows or doors with glazing) U-Value of assembly:

Solar heat gain coefficient: projection factor:

Door R-Values:

total square footage of skylights in each assembly:

R-Value of insulation:

**ENERGY REQUIREMENTS:** 

(705.8)	
1004.1.2)	

Additional Efficiency Package Options (When using the 2018 NCECC; not required for ASHRAE 90.1)

C406.2 More Efficient HVAC Equipment Performance

C406.3 Reduced Lighting Power Density

C406.4 Enhanced Digital Lighting Controls C406.5 On-Site Renewable Energy

C406.6 Dedicated Outdoor Air System C406.7 Reduced Energy Use in Service Water Heating

Architect: Bute,PLLC PO Box 2833 Durham, NC 27715 919.491.9105

Electrical Design: Edmondson Engineers PA 1920 Highway 54, Suite 700 Durham NC 27013 919.544.1936

Structural Design: Sarmiran, PLLC PO Box 1378 Hillsborough, NC 27278 919.241.8745

Acoustic Design: Thornburn Assoc. 2500 Gateway Center Blvd, Suite 800 Morrisville, NC 27560 919.463.9995

Owner: Durham Public Schools 2011 Hamlin Road Durham, NC 27704 919.560.2216

Index of Drawings:

1.0 0.1 1.0 2.0 3.0 4.0 5.0	Cover/Da Schedule Plan - De Plan - Ne Sections, Elevation Reflected
6.0	Details
E1.0	Electrica
E2.0	Electrica
E3.0	Electrica
L2.0	

cal Cover Sheet cal Demolition Plan rical Renovation Plan E3.1 Lighting Plan

TA-001 Sheet Index and Notes TA-101 AV Floor Plan TA-301 Sections and Elevations TA-701 Coordination Details

# **Auditorium Renovations CC Spaulding Elementary Durham Public Schools**

BID SET March 7, 2024

Data Sheet les/Notes Demolition lew Construction s/Reflected Ceiling ns/Details ed Ceiling Plan

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She

ta

Dat

Auditorium

Renovations

**CC Spaulding** 

Elementary

School

Bute, PLLC No. 2205

**Bute**, PLLC

P.O. Box 2833

Durham, NC 27715

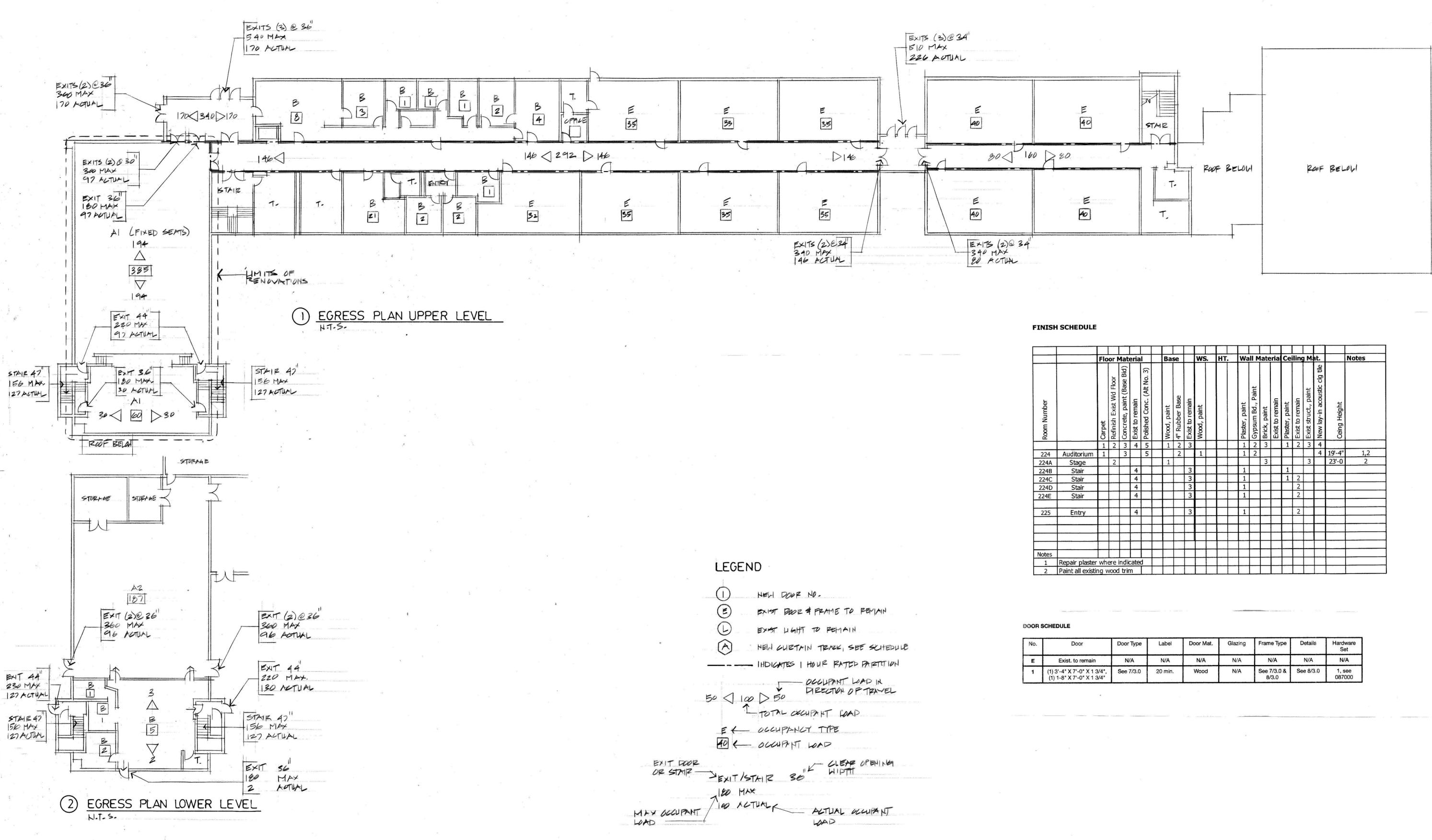
919.491.9105

lindsey@butepllc.com

Date Bid Set March 7, 2024

Revisions \_

Sheet 0.0



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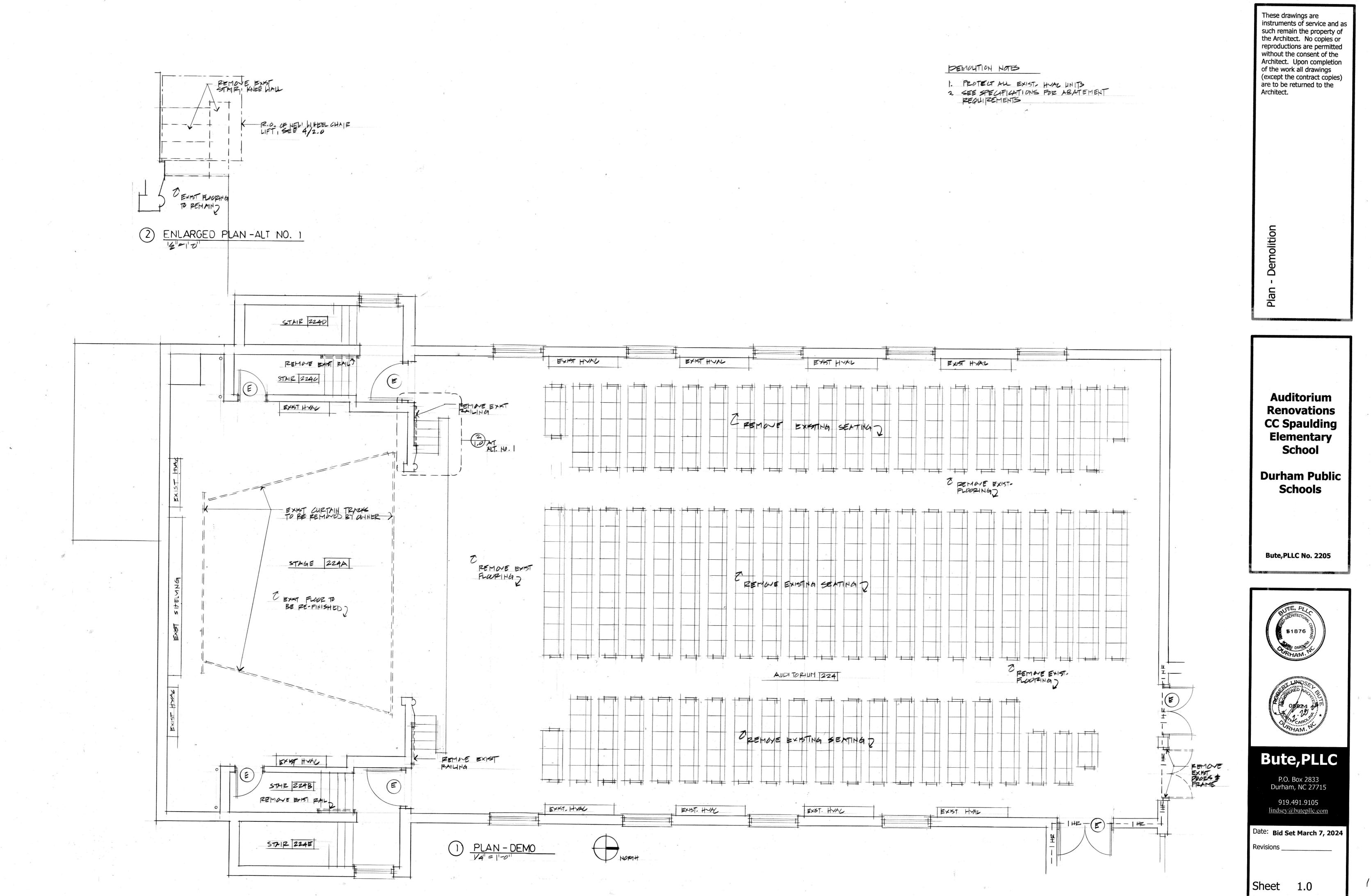
		Flo	or I	Mate	eria	1	Bas	se		WS	5.	HT.		Wa	II M	late	rial	Cei	ling	M	at.	а. С	Notes
Room Number		Carpet	Refinish Exist Wd Floor	Concrete, paint (Base Bid)	Exist to remain	Polished Conc. (Alt No. 3)	Wood, paint	4" Rubber Base	Exist to remain	Wood, paint				Plaster, paint	Gypsum Bd., Paint	Brick, paint	Exist to remain	Plaster, paint	Exist to remain	Exist struct., paint	New lay-in acoustic clg tile	Ceing Height	
		1	2	3	4	5	1	2	3					1	2	3		1	2	3	4		
224	Auditorium	1		3		5		2	6	1			It	1	2						4	19'-4"	1,2
224A	Stage		2				1			2				No.		3				3		23'-0	2
224B	Stair	200.00			4				3					1		i n n		1					
224C	Stair				4				3					1				1	2				
224D	Stair				4				3					1				. 1	2				
224E	Stair				4	_	-		3				-	1		_		_	2				
225	Entry				4		 		3		-			1					2				
Notes	Repair plaster	who	ere	indic	ate																		

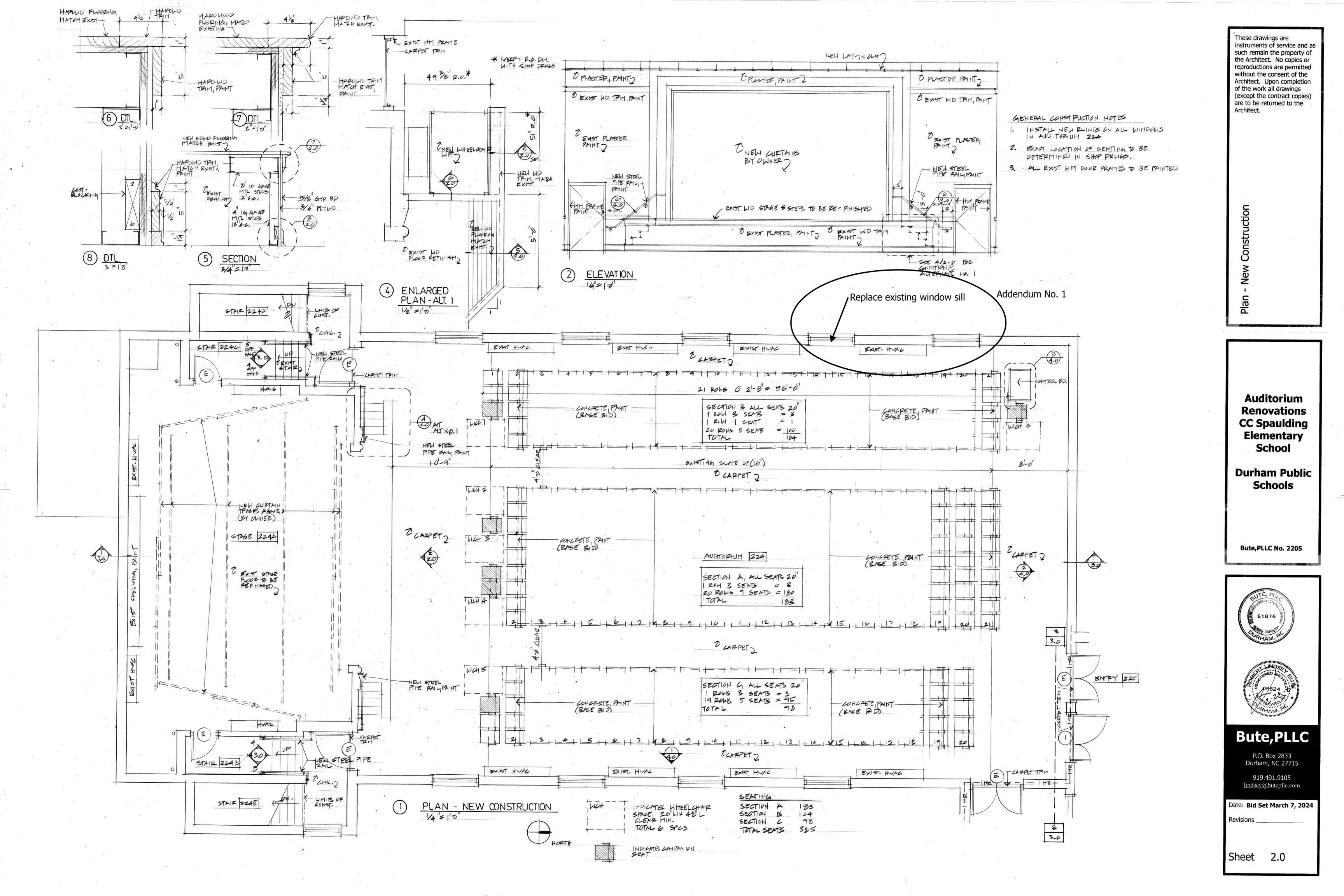
		<ul> <li>International and the second se</li></ul>	
D	OOR	SCHEDULE	
	No.	Door	Door Type
-	E	Exist. to remain	N/A
ſ	1	(1) 3'-4" X 7'-0" X 1 3/4", (1) 1-8" X 7'-0" X 1 3/4",	See 7/3.0

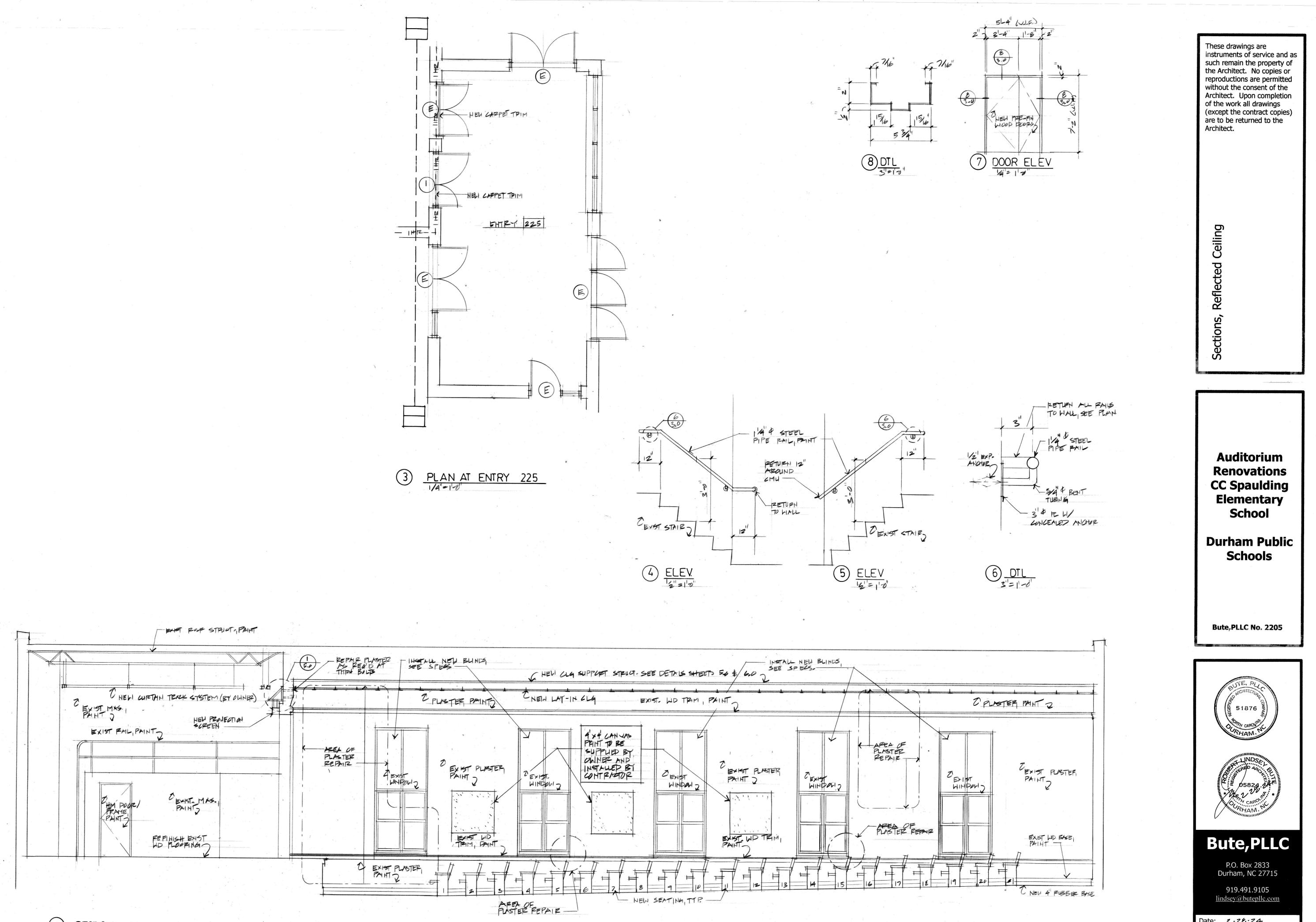
1000	Label	Door Mat.	Glazing	Frame Type	Details	Hardware Set
	N/A	N/A	N/A	N/A	N/A	N/A
	20 min.	Wood	N/A	See 7/3.0 & 8/3.0	See 8/3.0	1, see 087000

These drawings are instruments of service and as such remain the property of the Architect. No copies or reproductions are permitted without the consent of the Architect. Upon completion of the work all drawings (except the contract copies) are to be returned to the Architect. Sch Auditorium Renovations CC Spaulding Elementary School **Durham Public** Schools Bute, PLLC No. 2205 51876 **Bute, PLLC** P.O. Box 2833 Durham, NC 27715 919.491.9105 lindsey@butepllc.com Date: Bid Set March 7, 2024 Revisions

Sheet 0.1



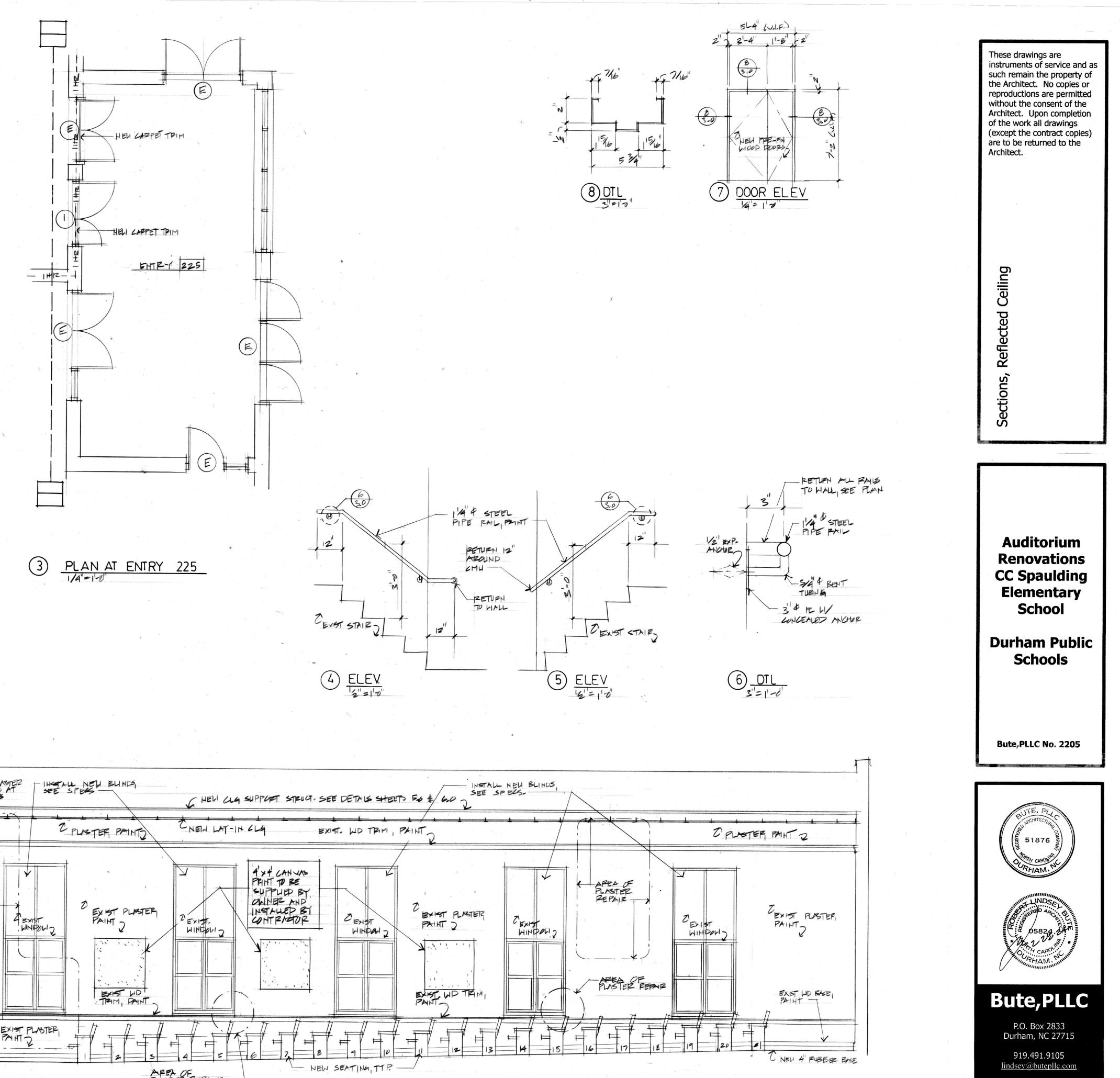




SECTION 1/4 21-0

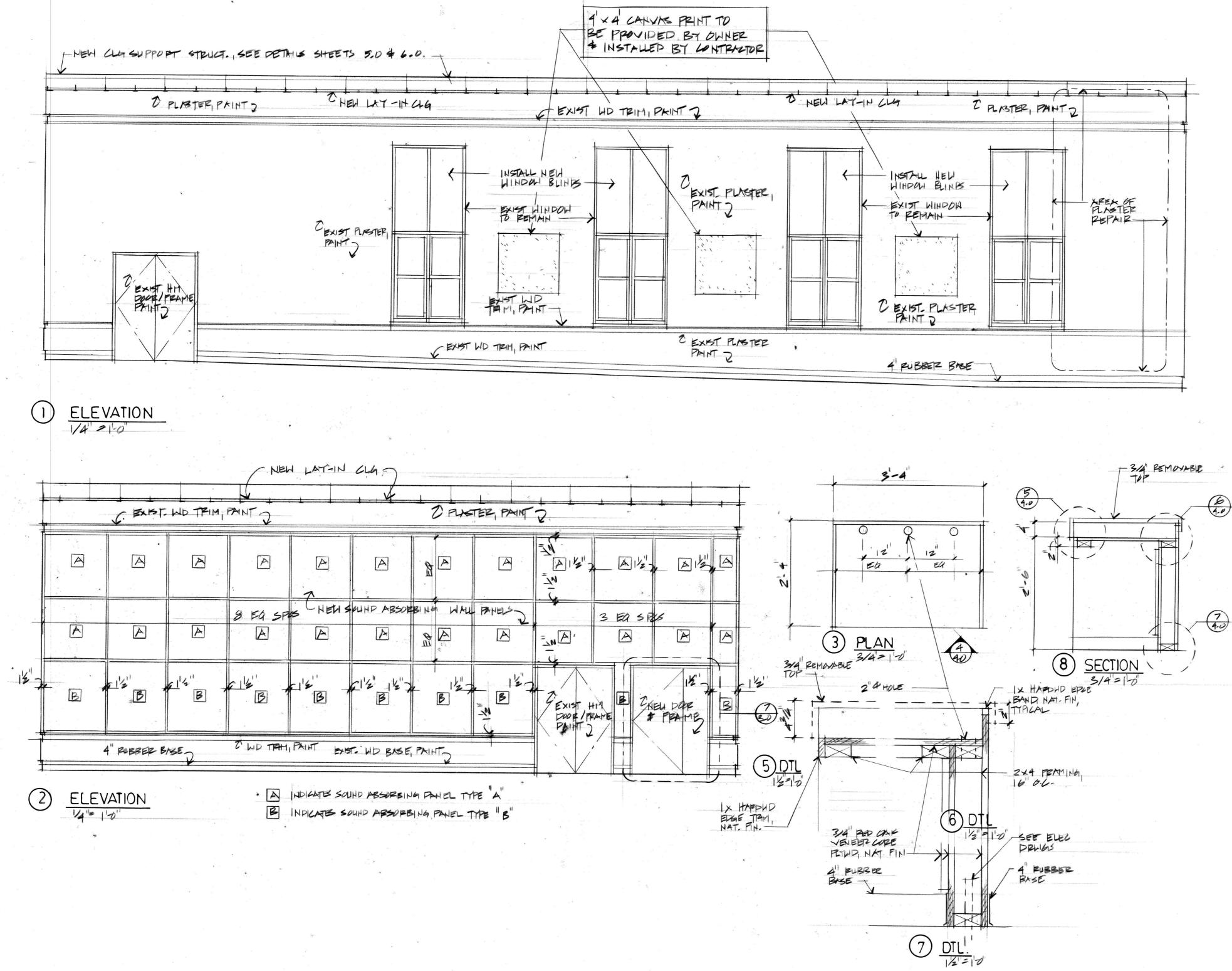
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NOTE: REINFORCE EXIST ROOF JOISTS AT CHRITAIN TRACK MOUNTING PER DTL 2/5.0



Date: 2 - 28 - 24 Revisions

Sheet 3.0

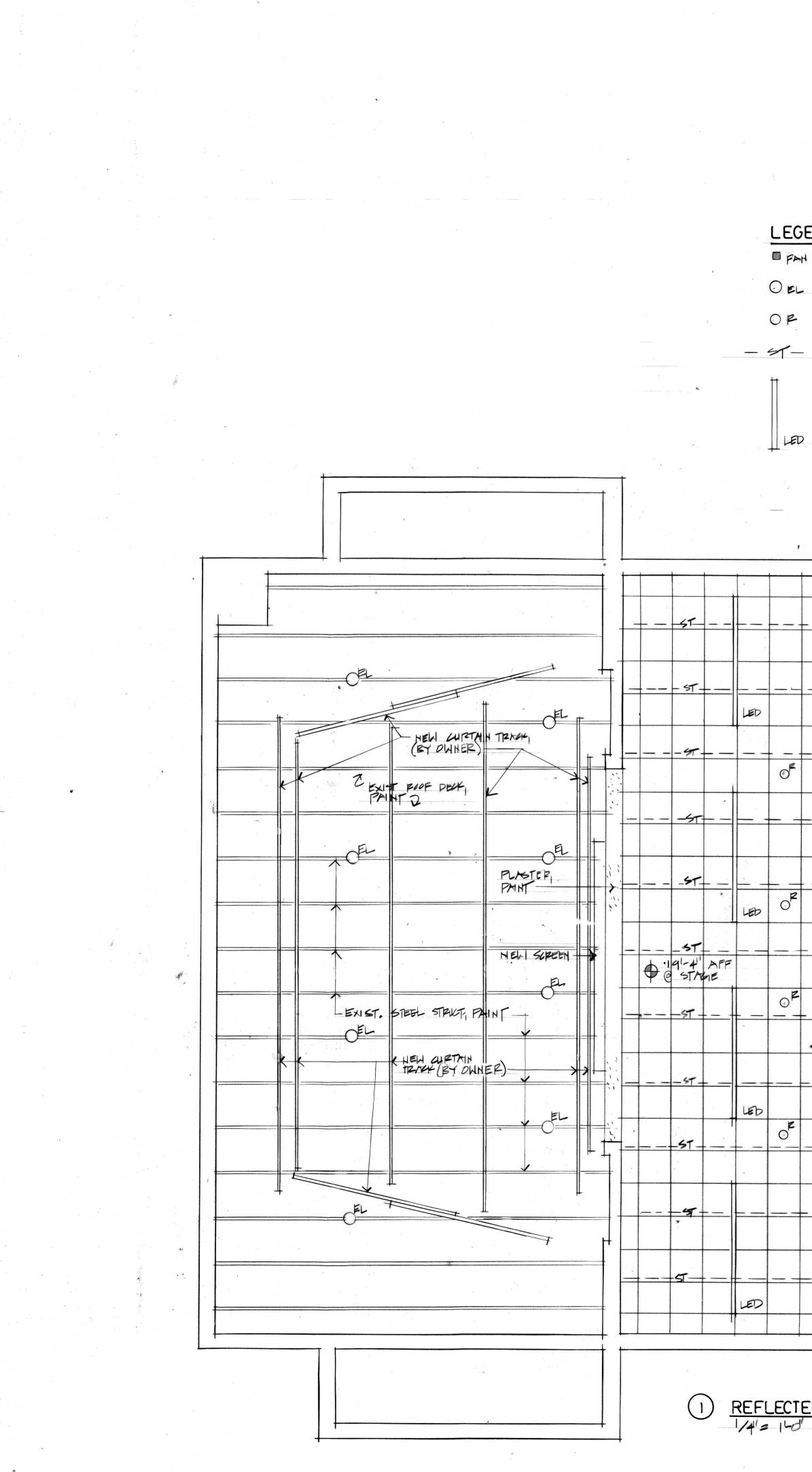


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Marker of Contract

These drawings are instruments of service and as instruments of service and as such remain the property of the Architect. No copies or reproductions are permitted without the consent of the Architect. Upon completion of the work all drawings (except the contract copies) are to be returned to the Architect. Details Elev 2 3/4 RILLO PROPS Auditorium Renovations CC Spaulding C 4" WIRE FULL Elementary School 4 ELEVATION **Durham Public** Schools Bute, PLLC No. 2205 51876 **Bute, PLLC** P.O. Box 2833 Durham, NC 27715 919.491.9105 lindsey@butepllc.com Dai Bid Set March 7, 2024 Revisions Sheet 4.0

\$4:510



EN	D
*	HEW CEILING FAN, SEE ELEC. PRIMA
	EXIST. HANT TO REMAIN, SEE ELEC. DRWG
	NEW RECESSED LIMIT SEE ELEC. DR. HO
	NEW STRUCT. ABOYE, SEE SHEET 6.0

HEH LED FIXTURE, SEE ELE. DRHG

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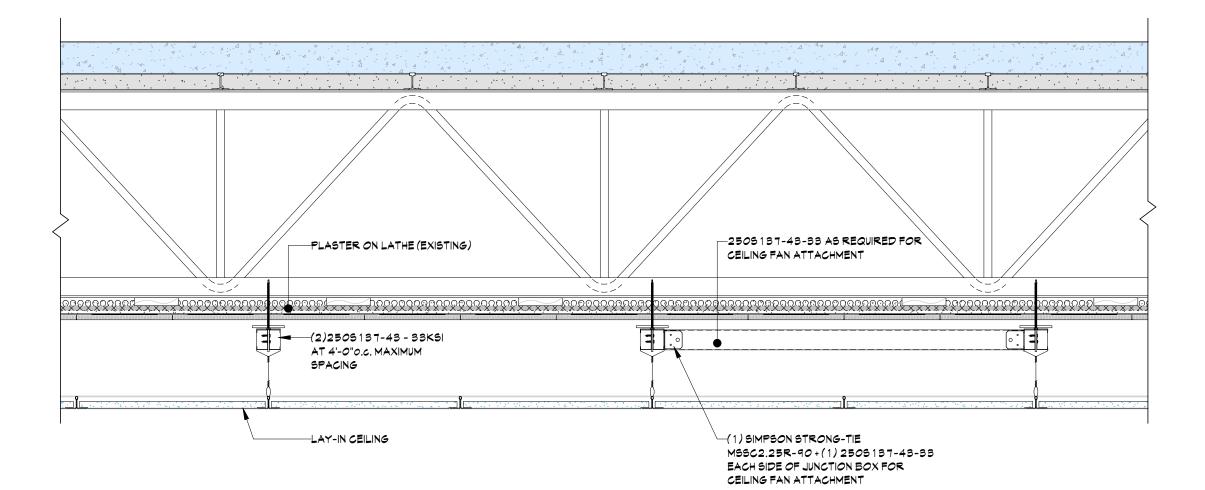
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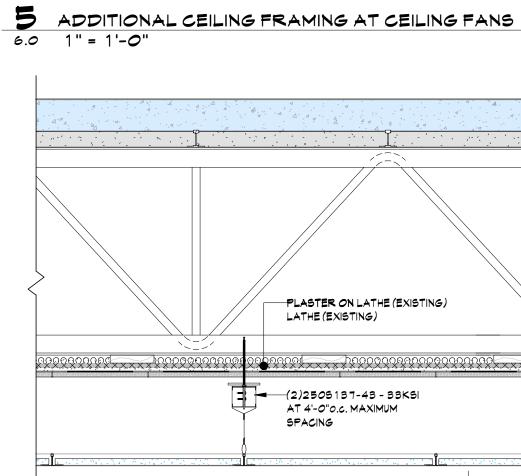
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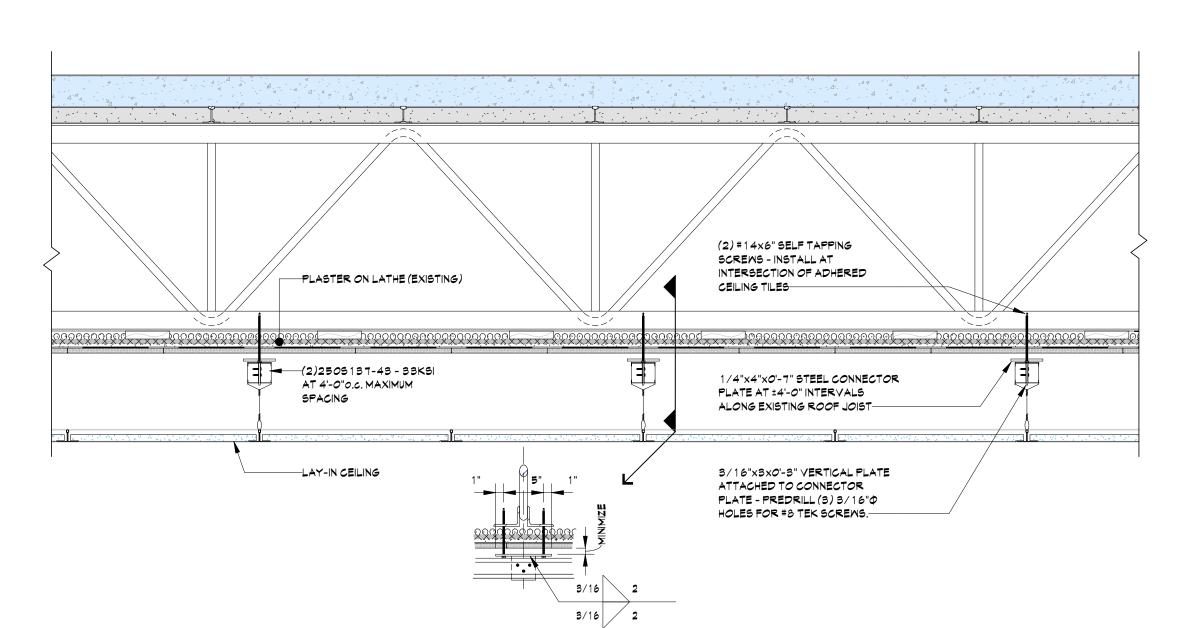
Revisions

Date: Bid Set March 7, 2024

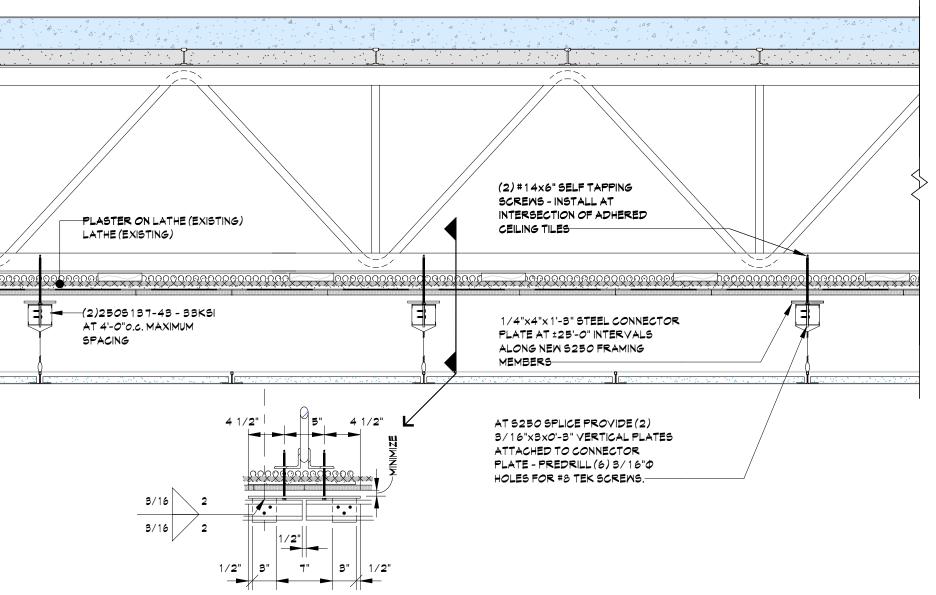


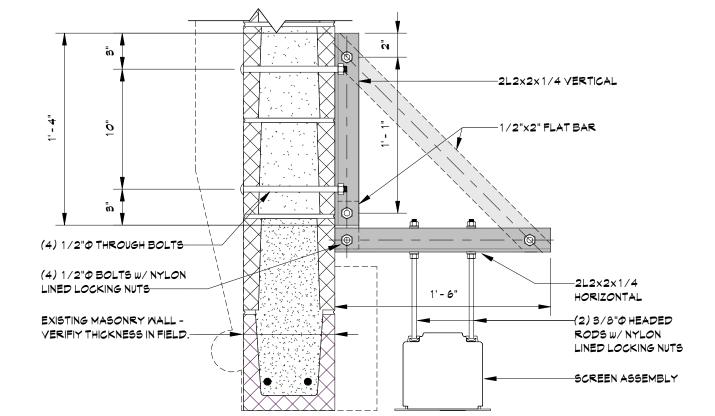


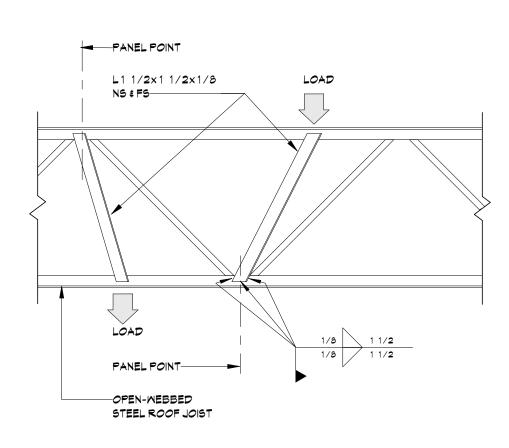




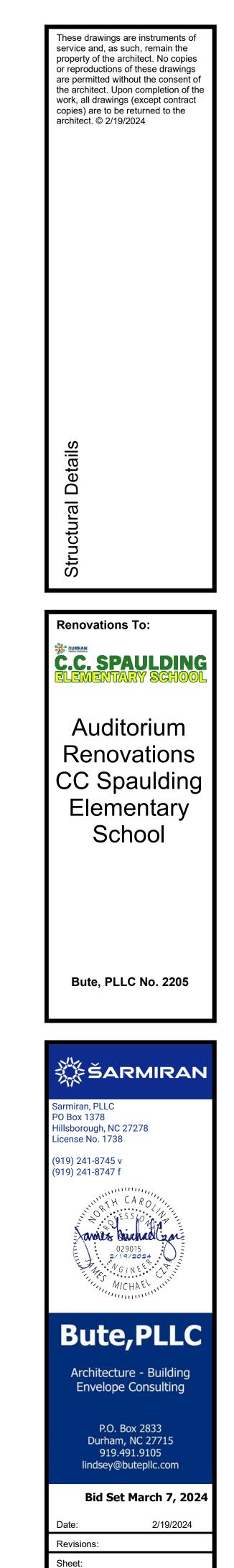






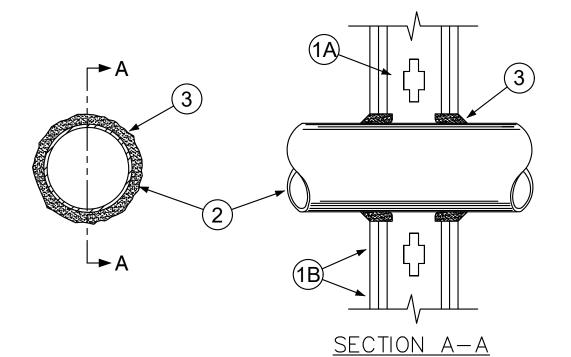


2 TYPICAL DETAIL - STEEL FRAMING - JOIST REINFORCEMENT 6.0 1" = 1'-0"



6.0

#### System No. W-L-1001 June 15, 2005 F Ratings – 1, 2, 3 and 4 Hr (See Items 2 and 3) T Ratings – 0, 1, 2, 3, and 4 Hr (See Item 3) L Rating At Ambient – less than 1 CFM/sq ft L Rating At 400 F – less than 1 CFM/sq ft



1. Wall Assembly — The 1, 2, 3 or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

> A. Studs — Wall framing may consist of either wood studs (max 2 h fire rated assemblies) or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC with nom 2 by 4 in. (51 by 102 mm) lumber end plates and cross braces. Steel studs to be min 3-5/8 in. (92 mm) wide by 1-3/8 in. (35 mm) deep channels spaced max 24 in. (610 mm) OC.

B. Gypsum Board\* — Nom 1/2 or 5/8 in. (13 or 16 mm) thick, 4 ft. (122 cm) wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 26 in. (660

2. Through-Penetrant — One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in / (0 mm). (point contact) to max 2 in. (51 mm) Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

> A. Steel Pipe — Nom 24 in. (610 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. Iron Pipe — Nom 24 in. (610 mm) diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in (305 mm) diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.

C. Conduit — Nom 6 in. (152 mm) diam (or smaller) steel conduit or nom 4 in (102 mm) diam (or smaller) steel electrical metallic tubing

D. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing

E. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.

F. Through Penetrating Product\* — Flexible Metal Piping The following types of steel flexible metal gas piping may be used:

1. Nom 2 in. (51 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly OMEGA FLEX INC

2. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly. GASTITE, DIV OF TITEFLEX

3. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly. WARD MFG L L C

3. Fill, Void or Cavity Material\* — Caulk or Sealant — Min 5/8., 1-1/4,1-7/8 and 2-1/2 in. (16, 32, 48 and 64 mm) thickness of caulk for 1, 2, 3 and 4 hr rated assemblies, respectively, applied within annulus, flush with both surfaces of wall. Min 1/4 in. (6 mm) diam bead of caulk applied to gypsum board/penetrant interface at point contact location on both sides of wall. The hourly F Rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table. The hourly T Rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below: 

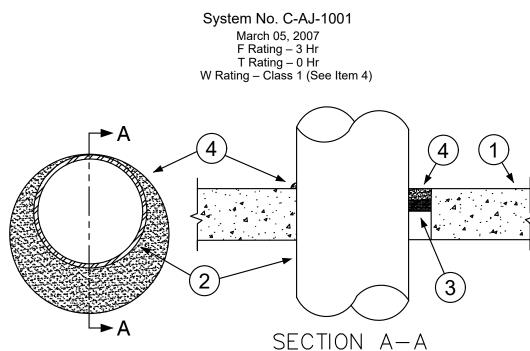
Max Pipe or Conduit Diam In (mm)	F Rating Hr	T Rating Hr
1 (25)	1 or 2 (	)+, 1 or 2
1 (25)	3 or 4 3	3 or 4
4 (102)	1 or 2	0
6 (152)	3 or 4	0
12 (305)	1 or 2	0

+When copper pipe is used, T Rating is 0 h.

3M COMPANY - CP 25WB+ or FB-3000 WT.

\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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1. Floor or Wall Assembly — Min 4-1/2 in. (114 mm) thick lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Wall may also be constructed of any UL Classified Concrete Blocks\*. Max diam of circular through opening is 32-1/2 in. (826 mm). See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

1A. Steel Sleeve — (Optional, not shown) — Nom 12 in. (305 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe sleeve cast into concrete floor or wall. Sleeve to be flush with or project max 2 in. (51 mm) from top surface of floor or from both surfaces of wall. As an alternate, nom 12 in. (305 mm) diam (or smaller) sleeve fabricated from nom 0.019 in. (0.48 mm) thick galv steel cast or grouted into floor or wall assembly flush with floor or wall surfaces.

2. Through — Penetrant — One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in. (0 mm, point contact) to max 1-3/8 in. (35 mm). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

Α.	Steel Pipe — Nom 30
pip	00.
A1	Iron Pipe — Nom 30

C. Conduit — Nom 4 in. (152 mm) diam (or smaller) steel electrical metallic tubing.

3. Packing Material — Polyethylene backer rod or nom 1 in. (25 mm) thickness of tightly-packed ceramic (alumina silica) fiber blanket, mineral wool batt or glass fiber insulation material used as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of solid concrete or concrete block wall as required to accommodate the required thickness of caulk fill material (Item 4). As an alternate when max pipe size is 10 in. (254 mm) diam and when max annular space is 1 in. (25 mm), a min 1 in. (25 mm) thickness of tightly-packed ceramic fiber blanket or mineral wool batt packing material may be recessed min 1/2 in. (13 mm) from bottom surface of floor or from either side of solid concrete wall.

4. Fill, Void in the follow	or Cavity Mater ing table:	iais^ —
•	Max Annular Space In.	Pac T
10 (254)	1 (25) E	BR, CF,

	opace in	-
10 (254)	1 (25) BF	R, CF,
10 (254)	1 (25)	
30 (762)	2-1/2 (64) BF	R, CF

(a) BR=Polyethylene backer rod. CF=Ceramic fiber blanket.

GF=Glass fiber insulation. MW=Mineral-wool batt.

(c) Caulk installed flush with bottom surface of floor or one surface of solid (non-concrete block) wall 3M COMPANY — Type CP 25WB+ or FB-3000 WT

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										EXISTING	3									
										PANEL UF	P-1									
IOTES	СКТ	LOAD	DESCRIPTION	COND	EGC	Ν	W	CB		LOAD		CB	W	N	EGC	COND	DESCRIPTION	LOAD	CKT	NOTES
1	1	275	AUD AISLE LTG INVERTER	3/4''	12	12	12	20	275			20					SPARE		2	
1	3	240	PROJECTOR SCREEN	3/4''	12	12	12	20		240		20					SPARE		4	
1	5	500	STAGE LIFT	3/4''	12	12	12	20			1220	20					209 REC	720	6	
1	7	360	AV CONTROL FLOOR BOX	3/4''	12	12	12	20	1080			20					209 REC	720	8	
1	9	1500	AV RACK	3/4''	12	12	12	20		2000		20					INVERTER	500	10	
	11		SPARE					20			1000	20					EX FAN	1000	12	
	13		SPARE					20	500			15					EX FAN	500	14	
	15		SPARE					20		0		20					SPARE		16	
	17		SPARE					20			500	15					AV UNIT	500	18	
	19		SPARE					20	500			15					AV UNIT	500	20	
	21		SPARE					20		0		20					SPARE		22	
	23		SPARE					20			0	20					SPARE		24	
	25		SPARE					20	0			20					SPARE		26	
	27		SPARE					20		0		20					SPARE		28	
	29		SPARE					20			0	20					SPARE		30	
	31		SPARE					20	0			20					SPARE		32	
	33		SPARE					20		0		20					SPARE		34	
	35		SPARE					20			4800	20					PNL UP-2	4800	36	
	37		PNL GP-1					100	4800			100	1	E	ΞX		-	4800	38	
	39		-	1	ΕX			3P		4800		3P	1				-	4800	40	
	41		-	]				-			0	-							42	
														WIRE				I MOUNT	•	
			208Y/	120		-		3	PHASE					GROU		R	NEM			
					BUS A			Х	MLO					SE RA	TED		101	< AIC MIN	IMUM	
					FEED		VIPS	N1 / A												
DTES:					MCB /	AVIPS		N/A	MCB							AMPS	PHASE TOTAL	<u>c</u> .	L 1/	VA
JIES: 1	USE EX		PARE BREAKER													59.63	PHASE TOTAL PHASE A:	_0.		.vA .16
2	JUL L/															59.63 58.67	PHASE B:			.18 .04
2																62.67	PHASE B. PHASE C:			.04 7.52
3 4																62.67 60.32	TOTAL CONNEC	TED		.52 1.72
5																46.56	TOTAL DEMAN		_	5.76

- Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel

n 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.

B. Conduit — Nom 6 in. (152 mm) diam (or smaller) rigid steel conduit.

4. Fill. Void or Cavity Materials\* — Caulk — Applied to fill the annular space to the min thickness shown

king Mtl Min Caulk Thkns In ype (a) , GF or MW 1/2 (13) (b) CF or MW 1/2 (13) (c)

, GF or MW 1 (25) (b)

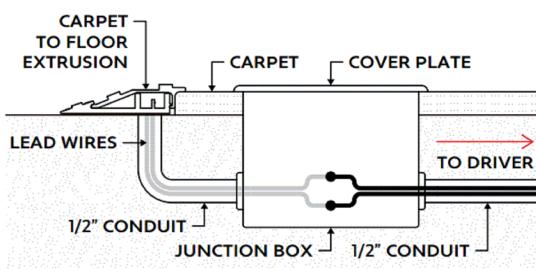
(b) Caulk installed flush with top surface of floor or both surfaces of wall

(Note - W Rating applies only when FB-3000 WT is used on top surface of floor and when it laps onto concrete for sleeved opening.)

\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

|--|

- 1.0 GENERAL:
- 1.1 PROVIDE ALL WORK, EQUIPMENT, SERVICES, LABOR, AND MATERIALS FOR THE CONSTRUCTION OF NEW ELECTRICAL SYSTEMS AS DESCRIBED OR IMPLIED BY THE CONTRACT DOCUMENTS.
- 1.2 THE DRAWINGS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO INCLUDE EVERY DETAIL OF CONSTRUCTION, MATERIALS, AND EQUIPMENT. TAKE ACTUAL FIELD MEASUREMENTS AT THE JOB SITE IN LIEU OF SCALING THE DRAWINGS.
- 1.3 REVIEW THE CONTRACT DOCUMENTS OF ALL TRADES AND COORDINATE ALL WORK WITH THE OTHER TRADES AS NECESSARY TO AVOID CONFLICTS AND INTERFERENCES.
- 1.4 ALL WORK AND MATERIALS SHALL COMPLY WITH APPLICABLE STATE, LOCAL, AND NATIONAL CODES (INCLUDING OSHA). COMPLIANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AND THESE SPECIFICATIONS SHALL BE THE MINIMUM STANDARD OF ACCEPTANCE.
- 1.5 OBTAIN AND PAY FOR ANY AND ALL REQUIRED PERMITS.
- 1.6 LOCATIONS INDICATED FOR OUTLETS, EQUIPMENT, ETC., ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR. 1.7 PROVIDE ONLY NEW MATERIALS AND EQUIPMENT LISTED AND LABELED (FOR THE USE INTENDED) BY AN APPROVED THIRD PARTY LABORATORY SERVICE SUCH AS UNDERWRITER'S LABORATORIES, INC.
- 1.8 SUBMIT IN ELECTRONIC FORMAT (PDF) SHOP DRAWINGS AND CATALOG DATA FOR ALL ELECTRICAL MATERIALS..
- 1.9 FIRE-STOPPING SEALANT SHALL BE USED TO SEAL ALL RATED FLOOR AND WALL PENETRATIONS. 2.0 CONDUITS:
- 2.1 ALL CONDUIT INSTALLED ABOVE GROUND SHALL BE ZINC-COATED EMT WITH COMPRESSION CONNECTORS OR GALVANIZED RIGID
- STEEL (GRS). CONDUIT ENCASED IN CONCRETE SHALL BE GALVANIZED RIGID STEEL.
- 2.2 SEAL ALL CONDUIT PENETRATIONS THROUGH FIRE-RATED WALLS OR FLOORS WITH UL LABELED, FIRE SEAL. 2.3 ALL CONDUIT SHALL BE CONCEALED EXCEPT FOR NEW CONDUIT INSTALLED ON EXISTING MASONRY WALLS WHERE IT IS NOT POSSIBLE TO CONCEAL. IN THIS CASE THE CONDUIT SHALL BE ROUTED PARALLEL, PERPENDICULAR AND TIGHT TO STRUCTURE AS INCONSPICUOUSLY AS POSSIBLE. ALL SURFACE MOUNTED BOXES AND CONDUIT TO BE PAINTED TO MATCH ADJACENT SURFACE. FIELD BEND AS REQUIREE FOR SURFACE MOUNTING ON EXISTING CURVED SURFACES.
- 3.0 WIRING:
- 3.1 CONDUCTORS SHALL BE COPPER, THHN/THWN, 12AWG MINIMUM, SOLID FOR #10 AWG OR #12 AWG, AND STRANDED FOR ALL LARGER SIZES. ALL CONDUCTORS SHALL BE COLOR-CODED.
- 3.2 LOW VOLTAGE WIRING TO AISLE LIGHTS MAY BE #14AWG FOR DESIGN BASIS FIXTURE SPECIFED. ALTERNATE PRODUCTS WILL NEED TO BE EVALUATED FOR VOLTAGE DROP BASED ON LOAD. LOW VOLTAGE WIRING MAY BE STRANDED IF REQUIRED / RECOMMENDED IN THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 3.3 ALL CONDUCTORS AND CABLES SHALL BE INSTALLED IN CONDUITS AND TESTED FOR CONTINUITY AND GROUND BEFORE BEING 3.4 THE CONDUIT AND ALL ELECTRICAL EQUIPMENT AND DEVICES SHALL BE GROUNDED. PROVIDE AN EQUIPMENT GROUNDING
- CONDUCTOR WITH EVERY CIRCUIT. NO CONDUIT SHALL CONTAIN MORE THAN THREE PHASE CONDUCTORS. 3.5 EXTENSION / REWORK OF EXISTING 120V OR 277V, 20A CIRCUITS SHALL UTILIZE 3-#12 AWG CONDUCTORS PER CIRCUIT IN 3/4" CONDUIT. PROVIDE AN EQUIPMENT GROUNDING CONDUCTOR WITH EACH CIRCUIT.
- 4.0 DEVICES:
- 4.1 ALL WIRING DEVICES SHALL BE HEAVY DUTY SPECIFICATION GRADE, HUBBELL, ARROW HART, OR APPROVED EQUAL 4.2 RECEPTACLES SHALL BE HEAVY DUTY SPECIFICATION GRADE, GROUNDING TYPE ARRANGED FOR SIDE AND BACK WIRING WITH
- SEPARATE SINGLE OR DOUBLE GROUNDING TERMINALS. RECEPTACLES SHALL BE STRAIGHT BLADE RATED 20 AMPERES, 125 VOLT. 4.3 DEVICES SHALL BE GRAY WITH STAINLESS STEEL COVER PLATS. COLOR SELECTION TO BE CONFIRMED WITH OWNER DURING
- SUBMITTAL PHASE. 5.0 ELECTRICAL IDENTIFICATION:
- 5.1 CIRCUIT IDENTIFICATION LABELS SHALL BE INSTALLED ON ALL NEW AND MODIFIED DEVICE COVER PLATES. INSTALL LABELS EXTERNALLY USING PRESSURE-SENSITIVE, SELF-ADHESIVE LABELS. LABEL SHALL LIST PANEL AND CIRCUIT NUMBER OR EQUIVALENT





										EXISTING	3									
									P/	ANEL 'STA	\GE'									
NOTES	СКТ	LOAD	DESCRIPTION	COND	EGC	Ν	W	СВ		LOAD		СВ	W	N	EGC	COND	DESCRIPTION	LOAD	CKT	NOTES
	1	1200	AUDITORIUM LIGHTS	EX	EX	ΕX	EX	EX	2400			ΕX	EX	EX	EX	EX	AUDITORIUM CLG LTS	1200	2	1
	3	1200	AUDITORIUM LIGHTS	EX	EX	ΕX	EX	EX		2400		ΕX	EX	EX	ΕX	EX	AUDITORIUM CLG LTS	1200	4	1
	5	1200	AUDITORIUM LIGHTS	EX	EX	EX	EX	EX			2400	EX	EX	EX	ΕX	EX	AUDITORIUM SPOT LTS	1200	6	
	7	1200	AUDITORIUM WALL LTS	EX	EX	EX	EX	EX	2400			ΕX	EX	EX	ΕX	EX	AUDITORIUM SPOT LTS	1200	8	
	9	1200	STAGE CLG LTS	EX	EX	EX	EX	EX		2400		ΕX	EX	EX	EX	EX	STAGE CLG DROP LTS	1200	10	
	11	1200	STAGE CLG LTS	EX	EX	EX	EX	EX			1380	EX	EX	EX	ΕX	ΕX	REAR STAGE REC	180	12	
	13	1200	STAGE PORTABLE LTS	EX	EX	ΕX	EX	EX	1380			ΕX	EX	EX	EX	EX	STAGE DUPLEX	180	14	
	15	1200	STAGE PORTABLE LTS	EX	EX	ΕX	EX	EX		1200							SPACE		16	
	17	1200	STAGE PORTABLE LTS	EX	EX	ΕX	EX	EX			1380	EX	EX	EX	ΕX	EX	AUDITORIUM REC	180	18	
	19	1200	FAN COIL UNITS	EX	EX	EX	EX	EX	2400			EX	EX	EX	EX	ΕX	CEILING FAN	1200	20	1
	21	1200	FAN COIL UNITS	EX	EX	EX	EX	EX		2400		ΕX	EX	EX	EX	EX	CEILING FAN	1200	22	1
	23	1200	AC UNIT CONTROL	EX	EX	EX	EX	EX			1200						SPACE		24	
	25	1200	FAN COIL UNITS	EX	EX	ΕX	EX	EX	2400			ΕX	EX	EX	EX	ΕX	FAN COIL UNITS 37 & 38	1200	26	
	27	1200	FAN COIL UNITS	EX	EX	ΕX	EX	EX		2400		ΕX	EX	EX	EX	ΕX	FAN COIL 39 & 40	1200	28	
	29	1200	FAN COIL UNITS	EX	EX	EX	EX	EX			2400	EX	EX	EX	EX	EX	FAN COIL 35 & 36	1200	30	
													4	WIRE			FLUSH	MOUNT	-	
			208Y/			-		3	PHASE				Х	GROU		R	NEMA			
					BUSA			N/A	MLO					SE RA	TED		10K	AIC MIN	IMUM	
				1.00	FEED															
				100	MCB	AMPS		Χ	MCB									_		
NOTES:			XTEND EXISTING CIRCUI		יווחבה.											AMPS	PHASE TOTAL	S:	1	KVA
				TAS REQ	UIRED	IO FEE		V LIGH I	S AND GEILII	NG FAINS MIC		EW DRC		ING BE	LOW	91.50	PHASE A:			0.98
	EVI2III	IG HARD	CEILING.													90.00	PHASE B:			0.80
2																73.00	PHASE C:			8.76
3																84.83	TOTAL CONNEC			30.54
4																81.83	TOTAL DEMANI	~ ر	2	29.46

EXISTIN

ELECTRICAL SYMBOLS LIGHT SWITCH (3-WAY - 4-WAY) AS INDICATED A-15 NEW HOMERUN TO PANEL 'A', CIRCUIT 15 - - - NEW UNSWITCHED LIGHTING CIRCUITRY NEW POWER OR LIGHTING CIRCUITRY DUPLEX RECEPTACLE FB FLOOR BOX  $\bigcirc$ JUNCTION BOX B BACK BOX WITH BLANK COVER PLATE С DISCONNECT SWITCH HATCHING INDICATES DEVICE TO BE DEMOLISHED (TYP.) ER RELOCATE EXISTING DEVICE

<u>NOTE:</u>

- 1. ITEMS IN BOLD INDICATE NEW WORK. THIN LINE WEIGHT ITEMS
- INDICATE EXISTING CONDITIONS.
- 2. NOT ALL DEVICES ARE IDENTIFIED IN THE LIST ABOVE. REFER TO DRAWINGS FOR ADDITIONAL INFORMATION.

#### **GENERAL ELECTRICAL NOTES:**

- THE CONTRACTOR SHALL VERIFY EQUIPMENT NAMEPLATE INFORMATION BEFORE INSTALLING CONDUIT, WIRING, CIRCUIT BREAKERS, DISCONNECT SWITCHES OR FUSES.
- 2. IN THE EVENT THE CONTRACTOR CHOOSES TO USE PRODUCTS OTHER THAN THE BASIS OF DESIGN, HE ASSUMES FULL RESPONSIBILITY FOR COORDINATION AND INTEGRATION OF SUCH ITEMS.
- ARCHITECTURAL AND STRUCTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER THE ELECTRICAL DRAWINGS REGARDING BUILDING CONSTRUCTION, DIMENSION AND ARRANGEMENT. CONTRACTOR SHALL COORDINATE CLOSELY WITH ALL TRADES TO AVOID CONFLICTS AND SHALL PROVIDE ALL OFFSETS AND EQUIPMENT AS REQUIRED TO FIT THE ELECTRICAL WORK INTO THE AVAILABLE SPACE.
- COORDINATE ANY AND ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION SO AS TO AVOID CONFLICT DURING CONSTRUCTION.
- 5. THE CONTRACTOR SHOULD READ AND UNDERSTAND THE ENTIRE SET OF CONSTRUCTION DOCUMENTS WHICH INCLUDES BUT IS NOT LIMITED TO THE SPECIFICATIONS, ARCHITECTURAL, CIVIL, STRUCTURAL AND ALL ENGINEERING DRAWINGS, SO THAT HE MAY UNDERSTAND THE FULL SCOPE OF WORK AND CONVEY THE PROPER REQUIRED MATERIALS AND METHODS OF INSTALLATION TO THE ESTIMATORS, SUPPLIERS AND INSTALLERS.
- CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH EXISTING 6. CONDITIONS IN ORDER TO OBTAIN A FULL UNDERSTANDING OF WORK TO BE DONE. 7. NO EXISTING POWER (CIRCUIT BREAKER, DISCONNECT SWITCHES, ETC.) IS TO BE
- TURNED OFF UNTIL VERIFIED THAT IT IS NOT IN CURRENT USE AND UNTIL APPROVED BY THE OWNER.
- 8. ALL ELECTRICAL EQUIPMENT AND WIRING SHALL BE 75 DEG. RATED.
- IN FINISHED SPACES, ALL CONDUIT SHALL BE CONCEALED AND ALL OUTLET BOXES SHALL BE FLUSH MOUNTED - UNLESS OTHERWISE NOTED ON PLANS. CUT AS REQUIRED AND PATCH TO MATCH EXISTING FINISH.
- 10. THE ELECTRICAL CONTRACTOR SHALL REMOVE ONLY THOSE EXISTING LIGHT FIXTURES, SWITCHES, RECEPTACLES, POWER JUNCTION AND OUTLET BOXES AS INDICATED ON DEMOLITION DRAWINGS.
- 11. REMOVE POWER AND SIGNALING SYSTEMS WIRING AND RACEWAY CIRCUITRY WHICH SERVES FIXTURES, DEVICES, OUTLETS AND/OR EQUIPMENT BEING REMOVED, REMOVE THIS CIRCUITRY BACK TO ITS SOURCE OR BACK TO THE POINT WHERE CIRCUITRY REMAINS TO CONTINUE SERVING EXISTING ITEMS.
- 12. REWORK, EXTEND AND RECONNECT CIRCUITRY AS REQUIRED TO MAINTAIN POWER AND SIGNALING TO REMAINING EQUIPMENT. ALL REMAINING FEED-THRU PULL BOXES, OUTLETS AND JUNCTION BOXES SHALL BE ACCESSIBLE.
- 13. PATCH AREAS WHERE DEVICES, LIGHT FIXTURES AND EQUIPMENT IS REMOVED TO MATCH EXISTING FINISH.
- 14. ALL PANEL DIRECTORIES SHALL BE UPDATED TO INDICATE NEW OR MODIFIED CIRCUITS. NOTE EQUIPMENT SERVED AND ROOM NUMBER OF EQUIPMENT LOCATION, OR SPARE, OR SPACE. DIRECTORIES SHALL BE TYPED. OLD DIRECTORIES SHALL BE TURNED OVER TO THE OWNER.
- 15. ALL SHUTDOWNS AND SERVICE INTERRUPTIONS MUST BE COORDINATED AND REQUESTED THROUGH OWNER AT LEAST 72 HOURS IN ADVANCE OF EXPECTED SHUTDOWN.

# C) C ш Renovations To: Auditorium

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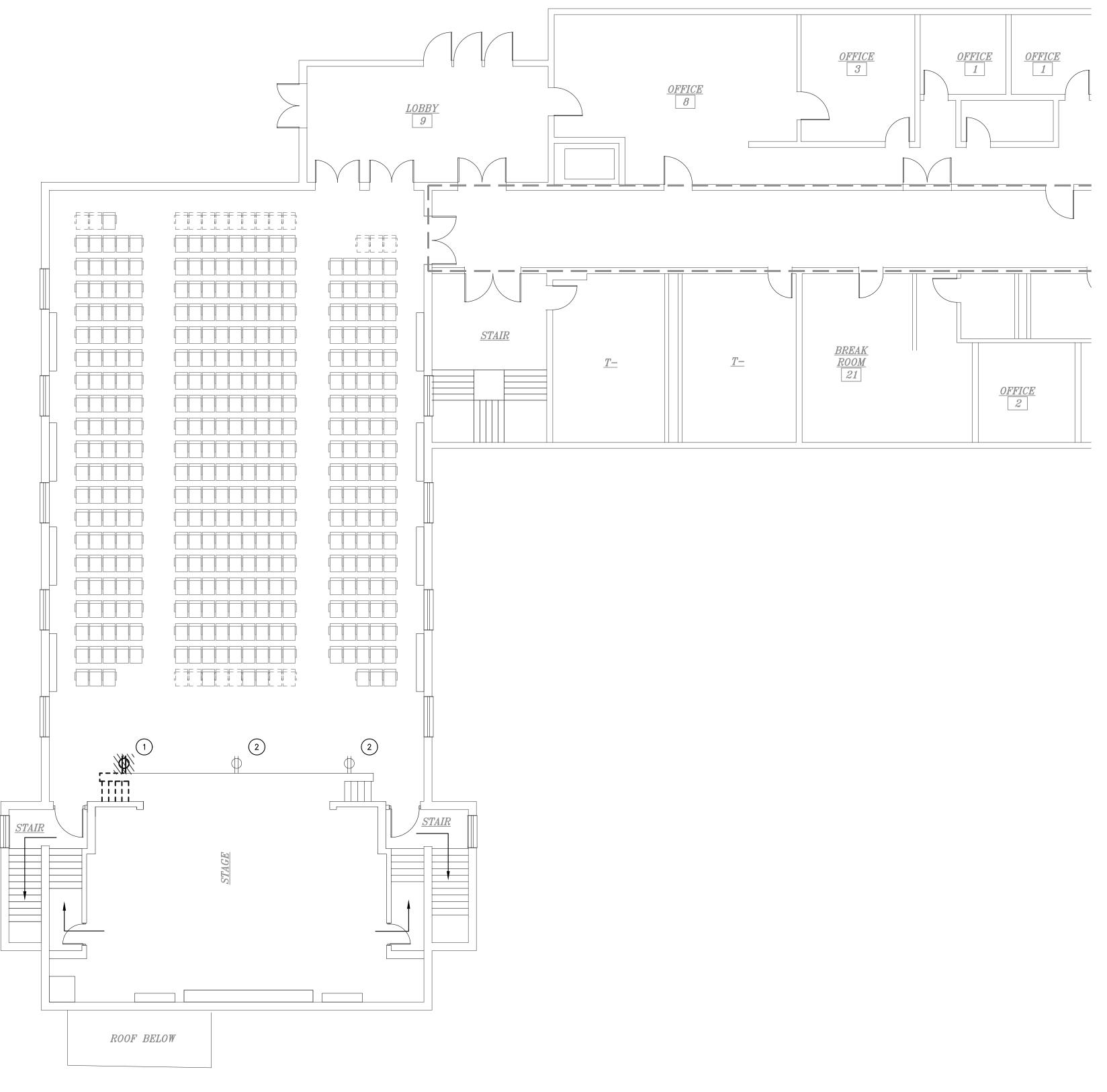
the architect. Upon completion of the

Renovations CC Spaulding Elementary School

**Durham Public** Schools

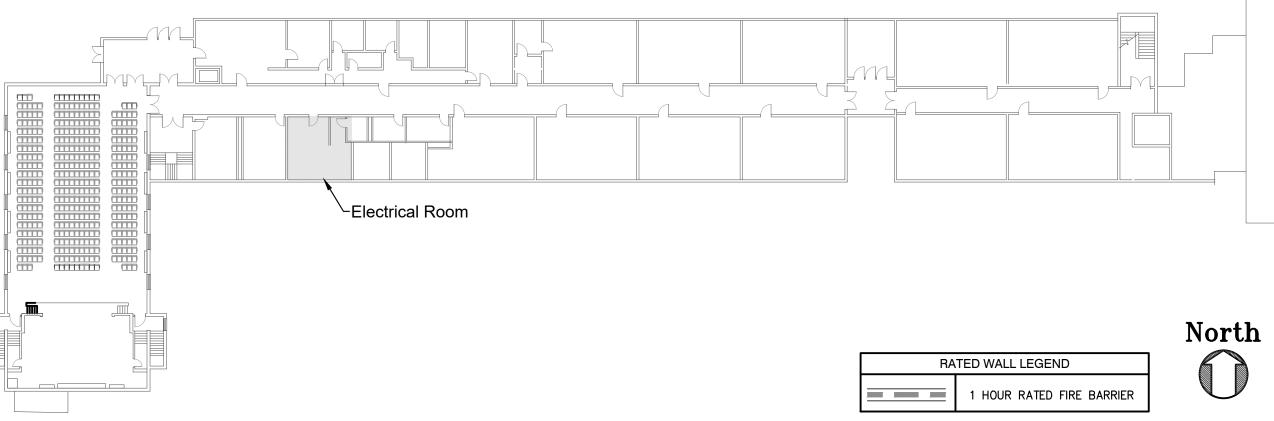
Bute, PLLC No. 2205







# **1** Electrical Demolition Plan E2.0 SCALE: 1/8" = 1'-0"



### ELECTRICAL DEMOLITION NOTES:

1 REMOVE RECEPTACLE AND REWORK AND EXTEND CIRCUIT AS REQUIRED TO FEED NEW RECEPTACLE IN NEW STAGE EXTENSION. MAINTAIN POWER TO ALL DOWNSTREAM RECEPTACLES ON SAME CIRCUIT. SEE RENOVATION PLAN FOR EXACT LOCATION OF NEW RECEPTACLE.

2 EXISTING RECEPTACLE TO REMAIN AND TO BE REFED. CIRCUIT ROUTING TO BE CONFIRMED BY ELECTRICAL CONTRACTOR.

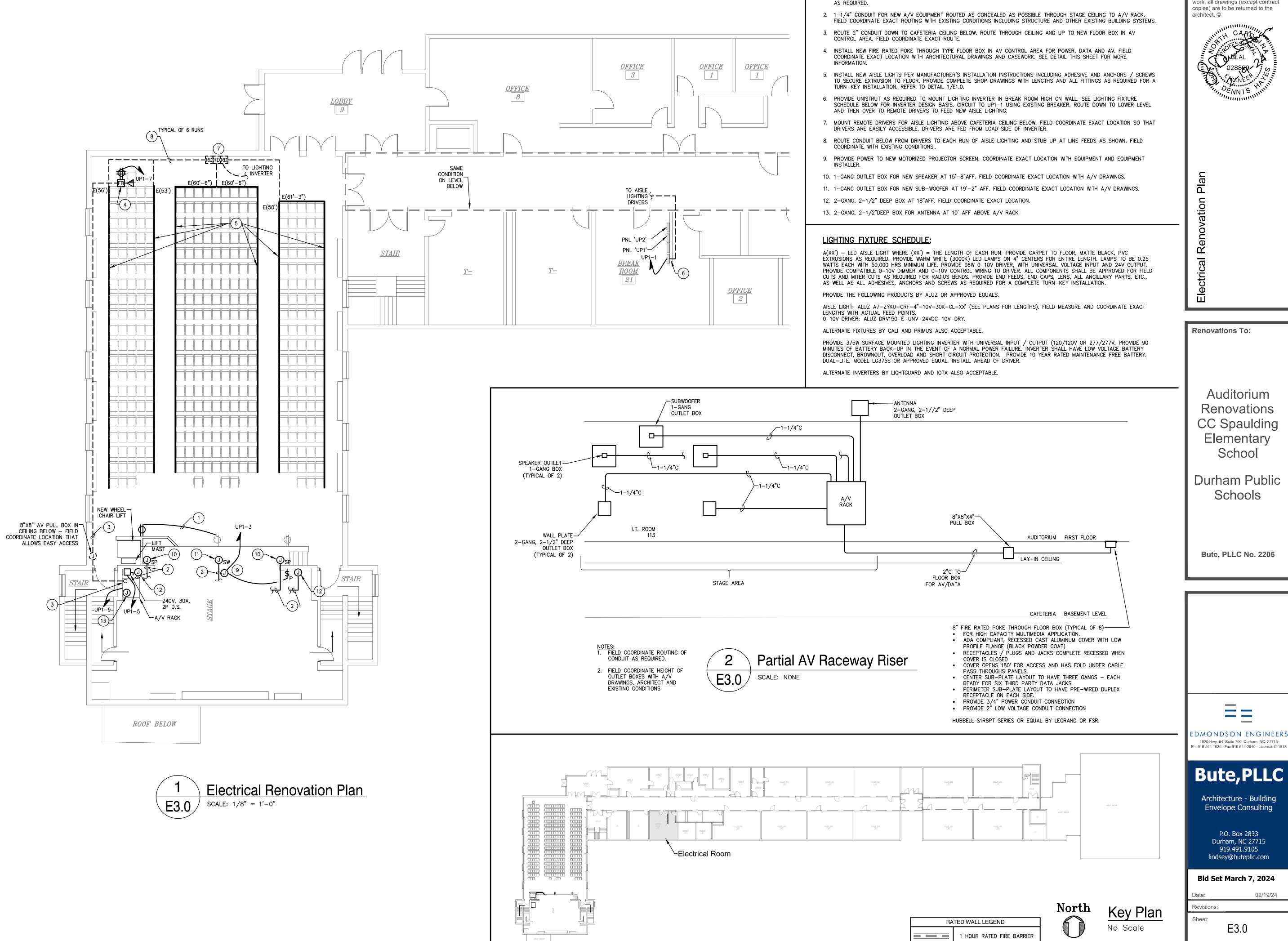
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Revisions:

E2.0

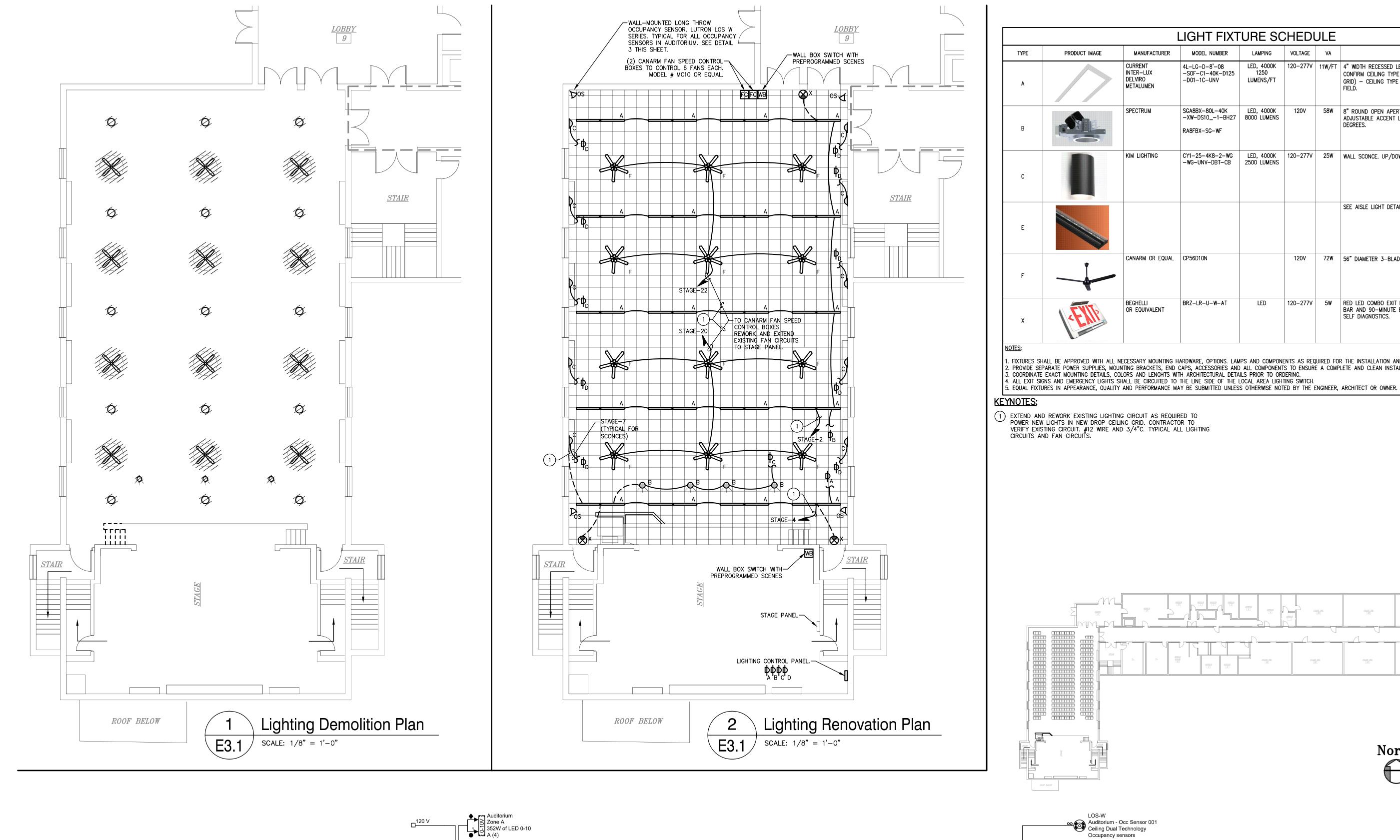
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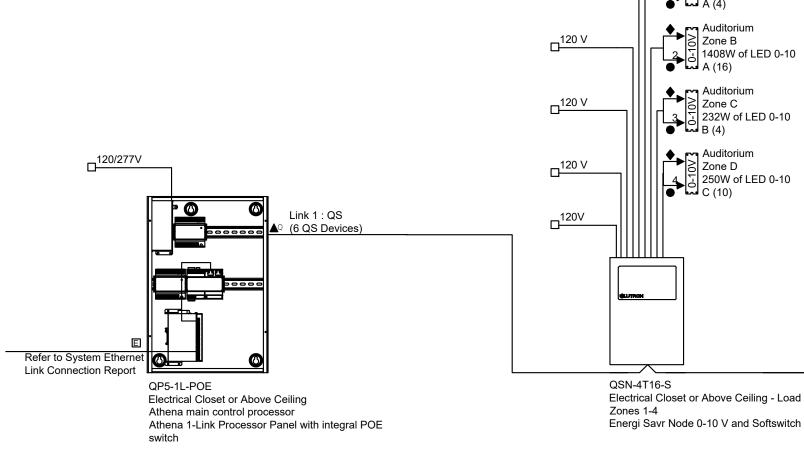


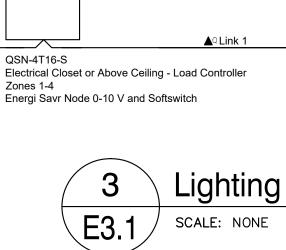
# ELECTRICAL RENOVATION NOTES: (#)

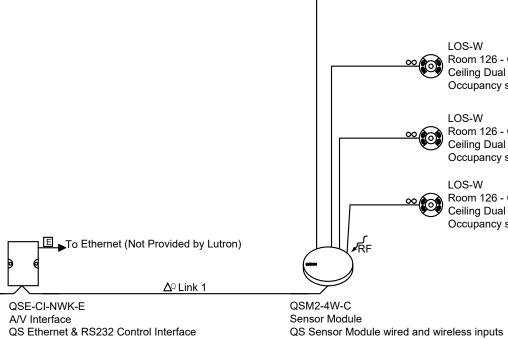
1. INSTALL NEW RECEPTACLE FLUSH MOUNTED IN SIDE WALL OF NEW STAGE EXTENSION. EXTEND AND REWORK EXISTING CIRCUIT

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Lighting Control System Riser Diagram

Raise/Lower

Raise/Lower

1 gang backbox

QSWS2-5BRLN-WH-G

Scene Selection keypad

Scenes 1-4 + Off with Scene

seeTouch QS Non-Insert 5 Button with

E

QSWS2-5BRLN-WH-G

Raise/Lower

Raise/Lower 1 gang backbox

Scene Selection keypad

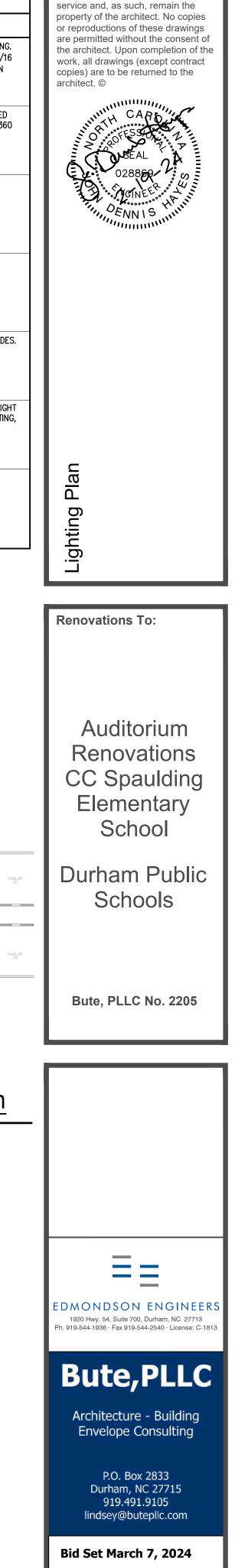
Scenes 1-4 + Off with Scene

seeTouch QS Non-Insert 5 Button with

QLink 1

l	_IGHT FIXT	URE SC	HEDU	JLE	
MANUFACTURER	MODEL NUMBER	LAMPING	VOLTAGE	VA	FIXTURE DESCRIPTION
RENT R-LUX VIRO ALUMEN	4L-LG-D-8'-08 -SOF-C1-40K-D125 -D01-1C-UNV	LED, 4000K 1250 LUMENS/FT	120–277V	11W/FT	4" WIDTH RECESSED LED LINEAR FIXTURE. 1% 0–10V DIMMING. CONFIRM CEILING TYPE WITH ARCHITECT (15/16 GRID VS 9/16 GRID) – CEILING TYPE MOUNT CAN NOT BE RETROFITTED IN FIELD.
CTRUM	SGA8BX-80L-40K -XW-DS101-BH27 RA8FBX-SG-WF	LED, 4000K 8000 LUMENS	120V	58W	8" ROUND OPEN APERTURE DEEP REGRESSED RECESSED LED ADJUSTABLE ACCENT LIGHT. TILTS 35 DEGREES, ROTATES 360 DEGREES.
LIGHTING	CY1-25-4K8-2-WG -WG-UNV-DBT-CB	LED, 4000K 2500 LUMENS	120–277V	25W	WALL SCONCE. UP/DOWN LIGHT WITH WALL GRAZE OPTIC.
					SEE AISLE LIGHT DETAILS ON SHEET E3.0.
IARM OR EQUAL	CP56D10N		120V	72W	56" DIAMETER 3-BLADE FAN. BLACK METAL STRAIGHT BLADES.
HELLI EQUIVALENT	BRZ-LR-U-W-AT	LED	120–277V	5₩	RED LED COMBO EXIT LIGHT WITH LED STRIP EMERGENCY LIGHT BAR AND 90-MINUTE BATTERY BACKUP. UNIVERSAL MOUNTING, SELF DIAGNOSTICS.

1. FIXTURES SHALL BE APPROVED WITH ALL NECESSARY MOUNTING HARDWARE, OPTIONS. LAMPS AND COMPONENTS AS REQUIRED FOR THE INSTALLATION AND AS DESCRIBED IN THE SCHEDULE. 2. PROVIDE SEPARATE POWER SUPPLIES, MOUNTING BRACKETS, END CAPS, ACCESSORIES AND ALL COMPONENTS TO ENSURE A COMPLETE AND CLEAN INSTALLATION. 3. COORDINATE EXACT MOUNTING DETAILS, COLORS AND LENGHTS WITH ARCHITECTURAL DETAILS PRIOR TO ORDERING. 4. ALL EXIT SIGNS AND EMERGENCY LIGHTS SHALL BE CIRCUITED TO THE LINE SIDE OF THE LOCAL AREA LIGHTING SWITCH.



These drawings are instruments of

		Durham Public Schools Bute, PLLC No. 2205
	North No Scale	
LOS-W Auditorium - Occ Sensor 001 Ceiling Dual Technology Occupancy sensors		≡≡
∞ ∞       EOS-W         Room 126 - Occ Sensor 002         Ceiling Dual Technology         Occupancy sensors         LOS-W         Room 126 - Occ Sensor 003         Ceiling Dual Technology         Occupancy sensors         LOS-W         Room 126 - Occ Sensor 003         Ceiling Dual Technology         Occupancy sensors         LOS-W         LOS-W		EDMONDSON ENGINEERS 1920 Hwy. 54, Suite 700, Durham, NC 27713 Ph. 919-544-1936 · Fax 919-544-2540 · License: C-1813 Bute, PLLC Architecture - Building
vired and wireless inputs		Envelope Consulting P.O. Box 2833 Durham, NC 27715 919.491.9105 lindsey@butepllc.com
RATED WALL LEGEND 1 HOUR RATED FIRE BARRIER		Bid Set March 7, 2024 Date: 02/19/24 Revisions: Sheet: E3.1

TELECOMMU	NICATIONS		<u>WIRE</u>	ND CABLE		
110 ADF	TWISTED PAIR TERMINATION BLOCK AREA DISTRIBUTION FACILITY		AFMW ARMM	Bonded Fill Flooded Twisted Cae Riser Armored Bonded Multipair		
BDC BEF	BUILDING DISTRIBUTION FRAME BUILDING ENTRANCE FRAME		AWG Cat3	AMERICAN WIRE GAUGE CATEGORY 3 TWISTED PAIR COPPER	CABLE	
BO CAB	BY OTHERS TELECOM CABINET OR ENCLOSURE		CAT4 CAT5	CATEGORY 4 TWISTED PAIR COPPER CATEGORY 5 TWISTED PAIR COPPER	CABLE	-
CONN CSC	CONNECTOR COPPER SPLICE CLOSURE CONTROLLED ENVIRONMENT VALUET		CAT5e CAT6	CATEGORY 6 TWISTED PAIR COPPER		LE
cve FDF FS	Controlled environment vault FIBER DISTRIBUTION FACILITY FIBER SHELF/FIBER TERMINATION PANEL		CM CMP CMR	NEC, COMMUNICATIONS CABLE NEC, COMMUNICATIONS PLENUM CAE NEC, COMMUNICATIONS RISER CABLI		
FSC HH	FIBER OPTIC SPLICE CLOSURE HANDHOLE		COAX	COAXIAL CABLE FIBER OPTIC	-	
IDC IDF	INTERMEDIATE DISTRIBUTION TELECOMMUNICATIONS INTERMEDIATE DISTRIBUTION FRAME	ROOM	HDPE LTFF	HIGH DENSITY POLYETHELYNE LOOSE TUBE FILLED & FLOODED		
isp It	INSIDE PLANT — CABLE WITHIN A BUILDING INFORMATION TECHNOLOGY		MDPE MM	MEDIUM DENSITY POLYETHELYNE MULTIMODE FIBER OPTIC CABLE		
LAN MDC	LOCAL AREA NETWORK MAIN DISTRIBUTION TELECOMMUNICATIONS ROOM		MPP OFC	NEC, MULTIPURPOSE PLENUM CABLE NEC, OPTICAL FIBER CONDUCTIVE C	ABLE	
MDF MH	MAIN DISTRIBUTION FRAME MANHOLE, MAINTENANCE HOLE		OFCP OFCR	NEC, OPTICAL FIBER CONDUCTIVE P NEC, OPTICAL FIBER CONDUCTIVE R	ISER CABLE	
MPOE OCEF OSP	MINIMUM POINT OF ENTRY OPTICAL CABLE ENTRANCE FACILITY OUTSIDE PLANT - CABLE OUTSIDE A BUILDING		ofn ofnp ofnr	NEC, OPTICAL FIBER NON-CONDUCT NEC, OPTICAL FIBER NON-CONDUCT NEC, OPTICAL FIBER NON-CONDUCT	IVE PLENUM CAB	
PAV PC	PAVEMENT PLASTIC CONDUIT		SM	SINGLE MODE FIBER OPTIC CABLE SHIELDED TWISTED PAIR		
PG POP	PAIR GROUP POINT OF PRESENCE		tb Utp	TIGHT BUFFERED UNSHIELDED TWISTED PAIR		
PR PVC	PAIR POLYVINYL CHLORIDE		WM	WRE MANAGER/MANAGEMENT		
ru R/W	RACK UNIT RIGHT-OF-WAY					
SC SCS SER	SPLICE CLOSURE STRUCTURED CABLING SYSTEM SERIAL					
SMR SS	SURFACE MOUNTED RACEWAY FIBER SPLICE SHELF					
TC TCH	TELECOM CONDUIT TELECOM CONDUIT SLEEVE, HORIZONTAL				MEASUREME	
TCR TCT	TELECOM HORIZONTAL AND VERTICAL RISER CONDU TELCOM CABLE TRAY	JIT	<u>Symbols</u>		BTU D or Dp	BRITISH THERMAL UNIT DEEP
TEC TEL	TELECOM ENTRANCE CONDUIT TELEPHONE		#	POUND or NUMBER	DIA FT	DIAMETER FOOT or FEET
telecom Term Tp	TELECOMMUNICATIONS TERMINAL TWISTED BAIR		Č.	AND AT	H or HGT ID In	HEIGHT or HIGH INSIDE DIAMETER INCH
TPB TR	TWISTED PAIR TELECOM PULL BOX TELECOM ROOM		•	FOOT or FEET INCH or INCHES	"" L Lb	LENGTH or LONG POUND
TSL TSV	TELECOM WALL OR FLOOR SLOT TELECOM CONDUIT SLEEVE, VERTICAL		+/- or ± <	LESS THAN	LIN M	LINEAR METER
WAN	WIDE AREA NETWORK		= >	EQUAL GREATER THAN DEGREES, ANGULAR MEASURE	mm OD	MILLIMETER OUTSIDE DIAMETER
ELECTRICAL			Ω 	OHM PARALLEL	R RAD	RADIUS RADIANS
A or AMP BND	AMPERE BOND(ING)		ø 4	DIAMETER ANGLE	um W WT	MICRON WDE WEIGHT
C ELEC	CONDUIT ELECTRIC(AL)				YD	YARD
emt Ent	ELECTRICAL METALLIC TUBING ELECTRICAL NON-METALLIC TUBING		COLOR CO	DDE.	DIRECTIONA	L
GRC GND Hz	GALVANIZED RIGID CONDUIT GROUND HERTZ		A B	ALMOND BROWN	DN	DOWN
IG IMC	ISOLATED GROUND INTERMEDIATE METALLIC CONDUIT		C E	CRIMSON RED BLACK GRAY	E HORIZ	EAST HORIZONTAL LEFT
pb Pln	PULL BOX PANEL			IVORY BLUE	LH N	LEFT HAND NORTH
PWR UPS	POWER UNITERRUPTABLE POWER SUPPLY		Ö P	ORANGE PURPLE	perp R	PERPENDICULAR RIGHT
V VAC VDC	VOLT VOLTS, ALTERNATING CURRENT VOLTS, DIRECT CURRENT		R V	DARK RED GREEN	RH S	RIGHT HAND SOUTH
W XFMR	WATT TRANSFORMER		W Y	WHITE Yellow	VERT W	VERTICAL WEST
GENERAL		FLOUR FUT GA	FLOU FUTU GAUG		ASSOCIATIO	ELECTRONICS INDUSTRY ALLIANCE
(e)or(E) (n)or(N)	EXISTING NEW ABOVE	GALV GC	GALV	L ANIZED RAL CONTRACTOR	tme Typ UBC	TO MATCH EXISTING TYPICAL UNIFORM BUILDING CODE
ABV ACH ACT	ABOVE COUNTER HEIGHT ACOUSTICAL CEILING TILE	GWB IFC	GYPS	UM WALL BOARD NISHED CEILING	UC UL	UNDER COUNTER UNDERWRITERS LABORATORY
ADJ AFC	ADJUST(ABLE) ABOVE FINISHED CEILING	IFF Incand	IN FII INCAN	NISHED FLOOR IDESCENT	UON VIF	UNLESS OTHERWISE NOTED VERIFY IN FIELD
AFF AFG	ABOVE FINISHED FLOOR ABOVE FINISHED GRADE	INCL INFO	INFOR	IDE, INCLUDING	W/ W/O	MTH MTHOUT
ALT ANSI	ALTERNATE AMERICAN NATIONAL STANDARDS INSTITUTE	INT LVI MAX	INTER LOW MAXIN	VOLTAGE INTERFACE	ŴĎ	WOOD
APPROX ARCH	APPROXIMATE ARCHITECT(URAL)	MECH	MECH	ANICAL ANICAL, ELECTRICAL, AND PLUMBING		
ASA AV AVC	AMERICAN STANDARDS ASSOCIATION AUDIOVISUAL AUDIOVISUAL CONTRACTOR	MFG MIN		FACTURER		
BET BFC	BETWEEN BELOW FINISHED CEILING	MISC NA	NOT	ELLANEOUS APPLICABLE		
BLDG BLW	BUILDING BELOW	NEC NEMA	NATIO	NAL ELECTRICAL CODE NAL ELECTRICAL MANUFACTURER'S		
CB CC	CEILING BOX CENTER TO CENTER	ASSOC. NFPA NIC	NATIO	NAL FIRE PROTECTION ASSOCIATION		
CL CLG CLB	CENTER LINE CEILING CLEAR	No. NOM	NUME	ER		
CLR CMU COL	CONTRETE MASON UNIT COLUMN	NTS OC	NOT	TO SCALE ENTER		
CONC	CONGRETE CONTINUOUS	OFCI OFE	OWNE	R FURNISHED CONTRACTOR INSTALLED R FURNISHED EQUIPMENT		
COORD CORR	COORDINATE, COORDINATION CORRIDOR	OFOI OPP	OPPO			
DED DEMO	DEDICATE, DEDICATED DEMOLISH	osha ovhd plc	OVER	PATIONAL SAFETY AND HEALTH ADMIN. HEAD DRMANCE LIGHTING CONTRACTOR		
dept Det Dim	DEPARTMENT DETAIL DIMENSION	PLY PRI	PLYW PRIM/	OOD		
DIM DIST DTV	DIMENSION DISTANCE DATA TELECOMMUNICATION CONTRACTOR	Prop Psc	Prop Proj	osed Ection Screen Control		
DWG EA	DRAWNG EACH	QTY RCP	QUAN REFLE	itity Ected ceiling plan		
ec Elev	ELECTRICAL CONTRACTOR ELEVATION	rct Ref Rem		PTACLE RENCE VF		
EMERG EQ.	EMERGENCY EQUAL	rem Repl Reqd	REMO RELPA REQU	ACE		
equip Equiv Ewb	EQUIPMENT EQUIVALENT ELECTRONIC WHITE BOARD	RM SCHD	ROOM	DULE		
EXT FCC	ELECTRONIC WHITE BOARD EXTERIOR FEDERAL COMMUNICATIONS COMMISSION	sect Sht	SECTI	on Ing sheet number or series		
FIN Flex	FINISH FLEXIBLE	SIM SPEC		FICATION		
FLOR	FLOOR	SQ STD STL	SQUA STAN STEEL	DARD		
		SUSP SWT		END(ED)		
		sym Telc	Symm Tele(	ETRICAL COMMUNICATIONS CONTRACTOR		
		TEMP	TEMP	ORARY		

THK

TIA/EIA

THICK(NESS)

TELECOMMUNICATIONS INDUSTRY

# ABBREVIATIONS

- AUDIO CONNECTORS: ALL CONNECTIONS TO SCREW CLAMP OR BINDING POST TERMINALS REQUIRE APPROPRIATELY COLOR CODED FLANGED OR SNAP SPADE TYPE LUGS. BARE WIRE CONNECTED TO A BINDING POST IS NOT ACCEPTABLE. GAS TIGHT INSULATION DISPLACEMENT "PUNCH-DOWN BLOCKS" ARE ACCEPTABLE TERMINAL CONNECTIONS FOR MICROPHONE AND LINE LEVEL INTERCONNECTIONS WITHIN EQUIPMENT ENCLOSURES.
- LOUDSPEAKER CONNECTORS: ALL CONNECTIONS TO SCREW CLAMP OR BINDING POST TERMINALS REQUIRE APPROPRIATELY COLOR CODED FLANGED OR SNAP SPADE TYPE LUGS. BARE WIRE CONNECTED TO A BINDING POST IS NOT ACCEPTABLE. FOR CONSTANT VOLTAGE SYSTEMS CRIMP CONNECTIONS AT LOUDSPEAKERS ARE ACCEPTABLE, WRE NUTS ARE NOT.
- 3 <u>VIDEO CONNECTORS:</u> ALL COAXIAL CABLE CONNECTIONS SHALL BE MADE WITH CRIMP TYPE CONNECTORS FOR BOTH SHIELD AND INNER CONDUCTOR. INSTALL WITH MANUFACTURER'S APPROVED ASSEMBLY METHODS AND TOOLS. CONNECTORS ATTACHED TO COAXIAL CABLE SHALL BE BNC STYLE CONNECTORS. USE BNC TO VHF ADAPTER OR BNC TO RCA ADAPTER AS APPROPRIATE FOR THE EQUIPMENT BEING CONNECTED.
- 4 <u>RF CONNECTORS:</u> ALL RF CABLE CONNECTIONS SHALL BE MADE WITH CRIMP TYPE CONNECTIONS FOR BOTH THE SHIELD AND INNER CONDUCTOR. INSTALL WITH MANUFACTURER'S APPROVED ASSEMBLY METHODS AND TOOLS. CONNECTORS ATTACHED TO RF CABLE SHALL BE 'F' STYLE CONNECTORS.
- 5 <u>RJ CONNECTORS:</u> ALL RJ CABLE CONNECTIONS SHALL BE MADE WITH CRIMP TYPE CONNECTIONS. RJ45 CONNECTIONS ARE TO BE MAKE WITH SHIELDED GROUNDING CONNECTORS.
- 6 <u>SIGNAL GROUNDING</u>: USE THE RACK AS A COMMON POINT OF GROUNDING FOR ALL TECHNICAL SYSTEMS. THE RACK IS TO BE GROUNDED / BONDED TO EARTH. CABLE SHIELDS SHALL ONLY BE USED FOR SHIELDING AND CONNECTED TO GROUND AT THE RACK ONLY. ALL RACK-MOUNTED EQUIPMENT SHALL BE CHECKED FOR GROUND CONTINUITY BETWEEN CHASSIS AND THE RACK.
- <u>CABLING:</u>
- A ALL CABLING IS TO BE CONTINUOUS AND UN-SPLICED.
- B CABLING NOT IN CONDUIT IS TO BE SUPPORTED FROM THE BUILDING STRUCTURE BY J-HOOKS. CABLES ARE NOT TO BE SUPPORTED FROM CEILING WIRES OR OTHER CONVEYANCE SYSTEMS.
- C PLENUM RATED CABLES AND CABLE TIES MUST BE USED WHEN CABLES ARE LOCATED IN AN AIR PLENUM.
- D CABLES WITHIN RACKS SHALL BE BUNDLED AND LACED NEATLY TO SUPPORT MEMBERS WITH A SERVICE LOOP LARGE ENOUGH TO MAINTAIN CONVENIENT ACCESS TO ALL EQUIPMENT CONNECTIONS.
- E EQUIPMENT POWER CABLE IS TO BE SEPARATED FROM SIGNAL CABLES WITH IN ANY ENCLOSURE. PROVIDE THE MAXIMUM SEPARATION POSSIBLE WITHIN THE ENCLOSURE.
- WRING: ALL WRING SHALL BE INSTALLED IN ACCORDANCE WITH NETWORK AND BROADCAST STANDARD PRACTICES. CABLE JACKET SHALL BE COLOR CODED TO MAINTAIN A CONSISTENT IDENTIFICATION OF PHASING.
- 9 MARKINGS: PERMANENTLY MARK ALL CONNECTORS, CABLES, AND CABLE TERMINATIONS TO INDICATE THEIR FUNCTION AS IT CORRESPONDS TO THE WIRING DIAGRAM. ALL CABLE PAIRS SHALL BE CODED WITH PERMANENTLY ATTACHED LABELS ON THE CABLE ENDS WITH CONSISTENT COLOR-CODED MARKINGS TO INDICATE THEIR FUNCTION. SEE CABLE LABEL DETAIL (DETAIL 5/TA-400).
- 10 AESTHETICS: COORDINATE THE ELEVATION/LOCATION, FINISH AND COLOR OF ALL PLATES, WALL SWITCHES, FLOOR BOXES AND JUNCTION BOXES WITH THE CONSULTANT.
- 11 VENTILATION: PROVIDE ADEQUATE VENTILATION IN EQUIPMENT RACKS TO CONFORM TO THE EQUIPMENT MANUFACTURER'S TEMPERATURE REQUIREMENTS.
- 12 FASTENERS. HANGERS. SUPPORTS: PROVIDE FASTENERS, SUPPORTS AND SEISMIC RESTRAINTS TO ADEQUATELY SUPPORT THE LOAD.
- 13 WORKMANSHIP: INSTALLATION OF ALL WORK INCLUDING CABLING SHALL BE NEAT. ALL BOXES INCLUDING THE LOUDSPEAKER ENCLOSURES, EQUIPMENT RACKS, ETC. SHALL BE PLUMB AND SQUARELY LOCATED. REPLACE/PATCH ALL CEILING, WALLS AND FLOOR REMOVED OR MODIFIED FOR THIS WORK WHEN THE WORK IS COMPLETE. LEAVE THE JOB SITE CLEAN AND FREE FROM MARKS AND BLEMISHES.
- 14 DIMENSIONED LOCATIONS: AV DEVICE LOCATIONS ILLUSTRATED WITH DIMENSIONS ARE CRITICAL TO DESIRED PERFORMANCE. CONTRACTOR SHALL NOT FIELD ADJUST LOCATIONS WITHOUT COORDINATING WITH THE DESIGN CONSULTANT.
- 15 ALL ENGRAVED LABELS SHALL BE FILLED WITH WHITE OR BLACK AS REQUIRED FOR THE GREATEST CONTRAST BETWEEN THE ENGRAVING AND FACEPLATE/LABEL BACKGROUND COLOR.

## **GENERAL NOTES**

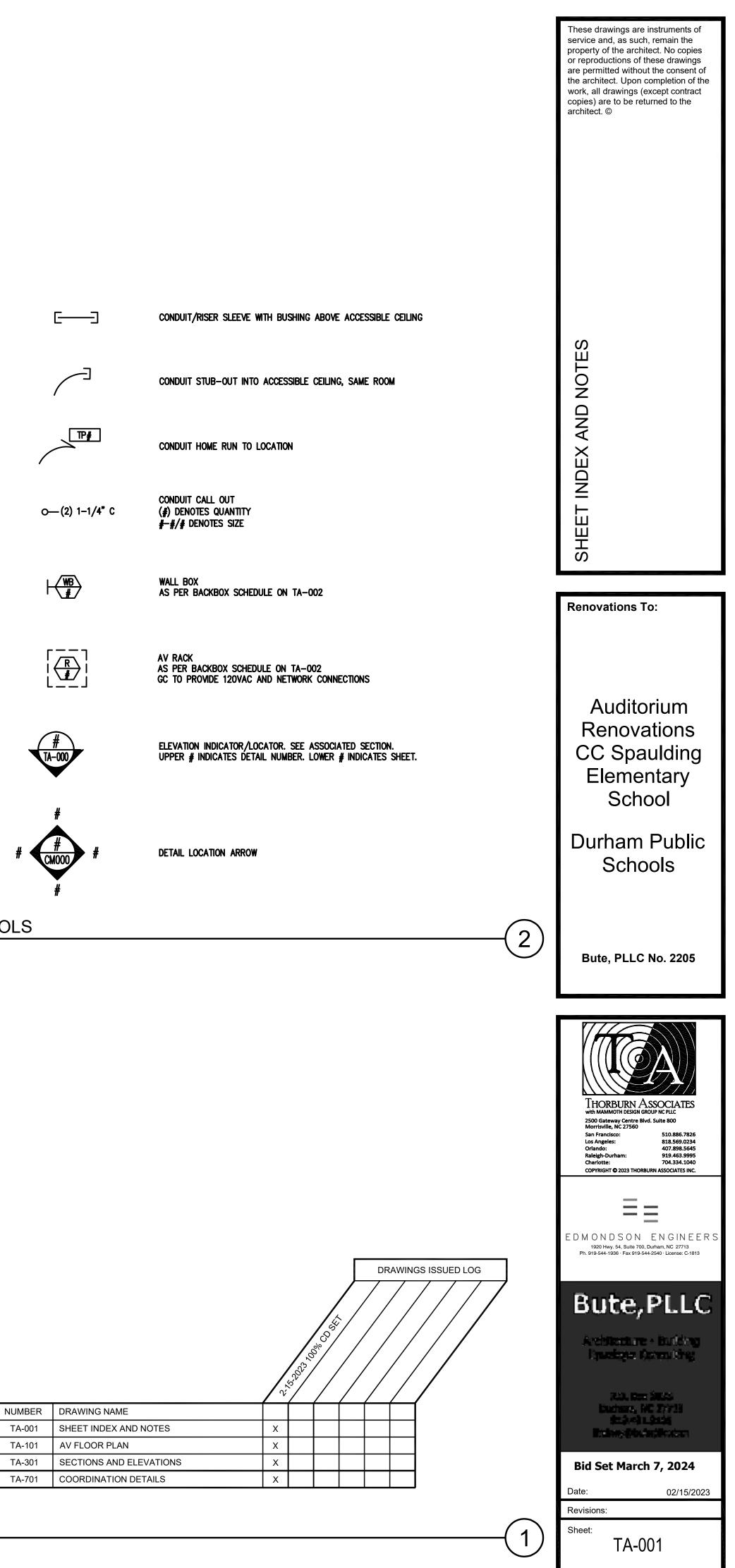
	PROJECT SYMBOLS
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#### 1 POWER:

- EACH CIRCUIT THAT SERVES TECHNOLOGY SYSTEMS MUST HAVE A DEDICATED GROUND AND NEUTRAL CONDUCTOR. SHARED GROUNDS AND NEUTRALS ARE NOT ACCEPTABLE.
- B ALL CIRCUITS ARE 120 VAC, 60 HZ, 1-PHASE, UON.
- C NOMINAL ELECTRICAL VOLTAGE IS 120 VAC. VOLTAGE MUST BE MAINTAINED WITH +/-10 PERCENT OF NOMINAL AT ALL TIMES FOR PROPER EQUIPMENT OPERATION.
- 2 TECHNOLOGY CONVEYANCE SYSTEM:
  - CONDUITS WHICH CARRY POWER MUST BE SEPARATED FROM TECHNOLOGY CONDUITS BY 12 INCHES FOR VOLTAGES OVER 100 VAC, 24 INCHES FOR VOLTAGES OVER 200 VAC AND 48 INCHES FOR ALL VOLTAGES OVER 300 VAC. WHERE POWER AND TECHNOLOGY CABLING AND CONDUIT CROSS, THEY SHOULD DO SO AT RIGHT ANGLES.
- B ALL CONDUIT SHALL BE CLEANED, DEBURRED AND HAVE PULL-STRINGS INSTALLED.
- ALL INTERIOR AND ABOVE GRADE CONDUIT SHALL BE SOLID FERRIC METALLIC. ALL С CONDUIT BELOW GRADE SHALL BE PLASTIC. CONTRACTOR SHALL NOT CHANGE CONDUIT TYPE WITHOUT DESIGN CONSULTANT APPROVAL.
- D PROVIDE PULL BOXES USING SWEEP ELBOWS AS REQUIRED BY CONDUIT PATH, CABLE BEND RADIUS OR PULLING TENSION LIMITS.
- E BACK BOXES TO BE SET TO ALLOW ALL TECHNOLOGY FACEPLATES TO BE INSTALLED TIGHT
- 3 PRIOR TO THE START OF ACTIVE EQUIPMENT INSTALLATION THE EQUIPMENT SPACES SHALL BE:
- A CLEAN AND SEALED FROM DUST PRIOR TO EQUIPMENT INSTALLATION.
- B MAINTAINED AT A TEMPERATURE OF 72  $\pm$  10 Degrees fahrenheit at all times.
- C MAINTAINED AT A RELATIVE HUMIDITY BETWEEN 40 AND 70 PERCENT AT ALL TIMES.
- 4 ALL PHONE, DATA, CABLE AND NETWORK LINES ARE TO BE PROVIDED BY OTHERS.
- 5 ALL BLOCKING TO BE PROVIDED BY GC.

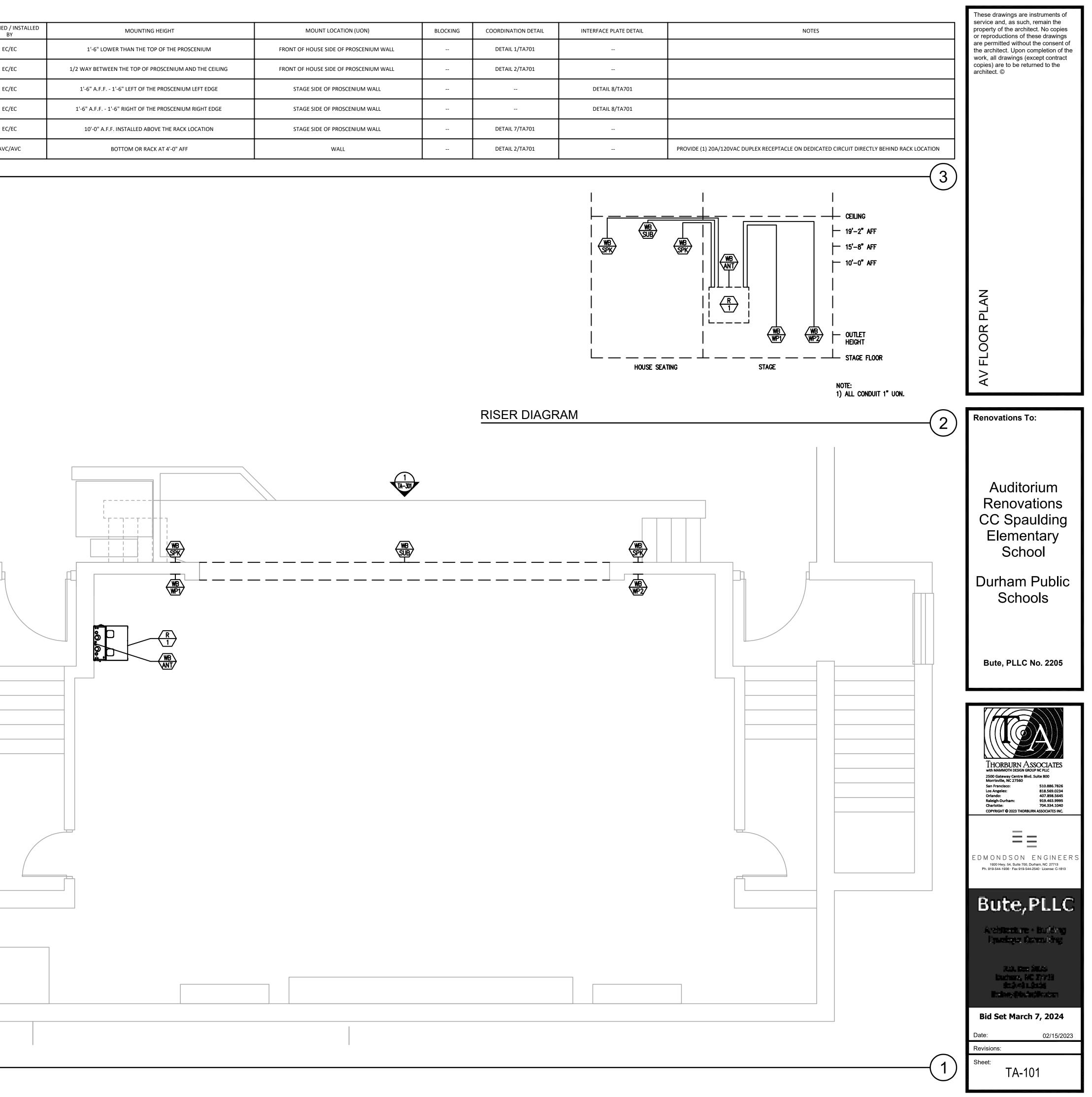
TO THE ADJACENT SURFACE.

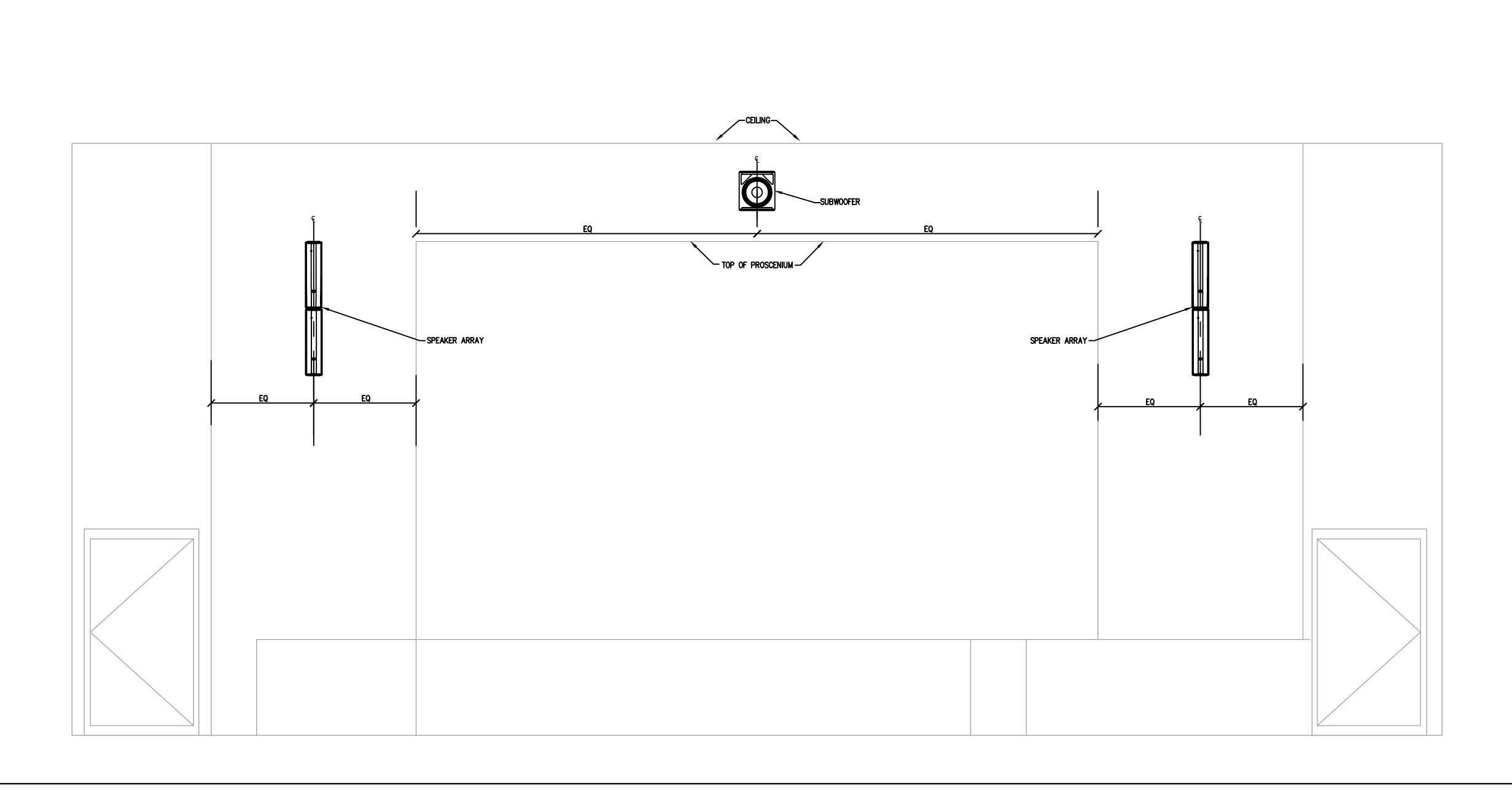
6 VENTS, GRILLS AND GROMMETS PROVIDED BY THE CASEWORK/MILLWORK VENDOR.



SYMBOL	DESCRIPTION	TYPE , SIZE , FLUSH MOUNT ( UON )	FURNISHED / INSTALLED BY	MOUNTING HEIGHT	MOUNT LOCATION (UON)	BLOCKING	COORDINATION DETAIL	INTERF
SPK SPK	WALL BOX - FRONT OF HOUSE LINE ARRAY SPEAKER	SINGLE GANG, STANDARD DEPTH, FLUSH MOUNT, GROMMET PASS THRU	EC/EC	1'-6" LOWER THAN THE TOP OF THE PROSCENIUM	FRONT OF HOUSE SIDE OF PROSCENIUM WALL		DETAIL 1/TA701	
WB SUB	WALL BOX - SUBWOOFER	SINGLE GANG, STANDARD DEPTH, FLUSH MOUNT, GROMMET PASS THRU	EC/EC	1/2 WAY BETWEEN THE TOP OF PROSCENIUM AND THE CEILING	FRONT OF HOUSE SIDE OF PROSCENIUM WALL		DETAIL 2/TA701	
WB WP1	WALL BOX - DOWN STAGE LEFT WALL PLATE	2-GANG, 2-1/2" DEEP WALL BOX, FLUSH MOUNT	EC/EC	1'-6" A.F.F 1'-6" LEFT OF THE PROSCENIUM LEFT EDGE	STAGE SIDE OF PROSCENIUM WALL			DE
WB WP2	WALL BOX - DOWN STAGE RIGHT WALL PLATE	2-GANG, 2-1/2" DEEP WALL BOX, FLUSH MOUNT	EC/EC	1'-6" A.F.F 1'-6" RIGHT OF THE PROSCENIUM RIGHT EDGE	STAGE SIDE OF PROSCENIUM WALL			DE
(WB) ANT	WALL BOX - ALS ANTENNA	2-GANG, 2-1/2" DEEP WALL BOX, FLUSH MOUNT	EC/EC	10'-0" A.F.F. INSTALLED ABOVE THE RACK LOCATION	STAGE SIDE OF PROSCENIUM WALL		DETAIL 7/TA701	
$\left\langle \begin{array}{c} R \\ 1 \end{array} \right\rangle$	MIDDLE ATLANTIC EWR-16-22-SD		AVC/AVC	BOTTOM OR RACK AT 4'-0" AFF	WALL		DETAIL 2/TA701	

FLOOR PLAN SCALE:  $3/8^* = 1^{\prime}$ 

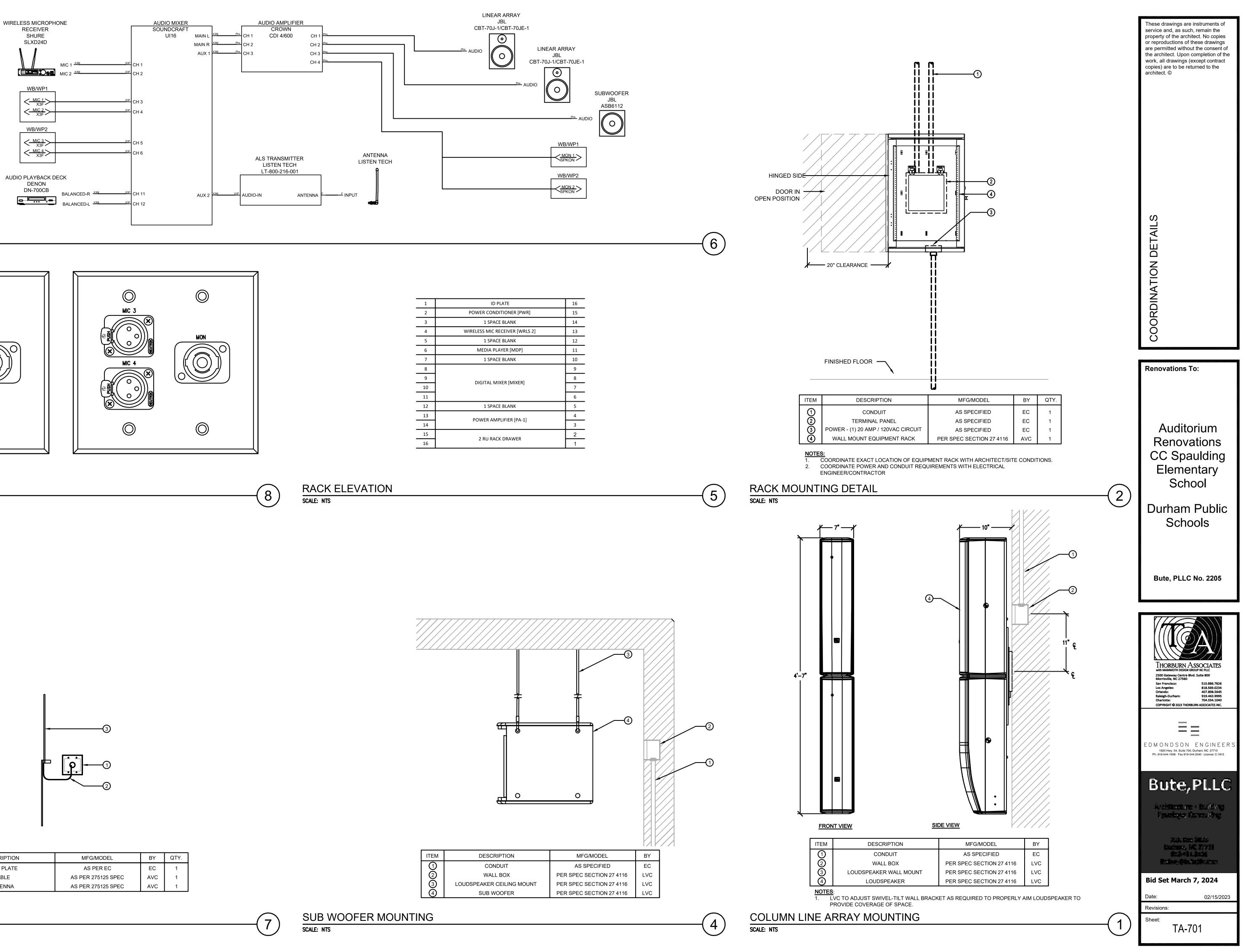




# STAGE ELEVATION

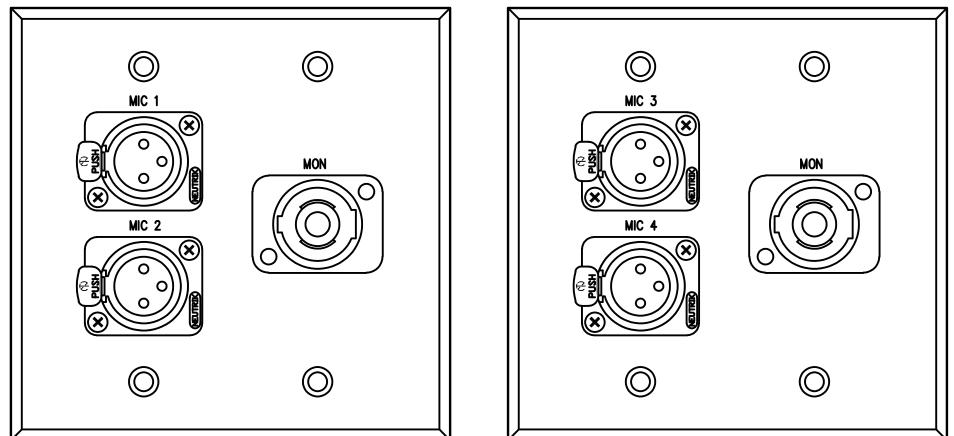
SCALE:  $1/2^* = 1^*$ 

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	Therefore the second se
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	Bute, PLLC
	Architecture - Building Upweigte Koreating
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	Bid Set March 7, 2024
-	Date: 02/15/2023
	Revisions:
	Revisions: Sheet: TA-301



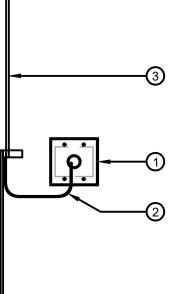
# AUDIO FUNCTIONAL

SCALE: NTS



STAGE AV PLATE

SCALE: NTS



ITEM	DESCRIPTION	MFG/MODEL	BY	QTY.
1	WALL PLATE	AS PER EC	EC	1
2	CABLE	AS PER 275125 SPEC	AVC	1
3	ANTENNA	AS PER 275125 SPEC	AVC	1



