Beave AHJ: Was	SW 170th Avenue rton, OR 97003 hington County 1S107AB00100			
AHJ: Was	hington County			
Tax Lot #:	15107AB00100			
BID A	LTERNATES			
(including,	but not limited to)			
1. 2.				
<u>DEFE</u>	RRED SUBMITTALS			
(including, 1.	but not limited to)			
<u>ANNC</u>	DTATION SYMBOLS			
ANNC	PROJECT NORTH NORTH ARROW	<u>4120A</u>	DOOR NUMBER - SEE DO SCHEDULE	OR 10 A5
ANNC	PROJECT NORTH NORTH ARROW TRUE NORTH Boom Namo	A120E	SCHEDULE RELITE NUMBER - SEE	OR 1D A5
ANNC K	PROJECT NORTH NORTH NORTHARROW TRUE NORTH ROOM NAME & NUMBER 10101	A120E	SCHEDULE RELITE NUMBER - SEE RELITE SCHEDULE	
ANNC	PROJECT NORTH NORTH NORTH ARROW TRUE NORTH Room Name ROOM NAME & NUMBER 10101 Image: Comparison of the second	A120E	SCHEDULE RELITE NUMBER - SEE	
ANNC	PROJECT NORTH NORTH ARROW TRUE NORTH NORTH ARROW Room Name 10101 ROOM NAME & NUMBER (A) STOREFRONT OR WINDOW TYPE (A) STOREFRENCE (3) KEYNOTE REFERENCE (2) CEILING PLANE HEIGHT - ALL		SIM	
ANNC	 PROJECT NORTH NORTH ARROW TRUE NORTH ROOM NAME ROOM NAME & NUMBER 10101 (A) STOREFRONT OR WINDOW TYPE (A) STOREFRONT OR WINDOW TYPE (J) (J) (J) (J) (J) (J) (J) (J) (J) (J)		SCHEDULE RELITE NUMBER - SEE RELITE SCHEDULE A GRID LINE	
ANNC	PROJECT NORTH NORTH ARROW TRUE NORTH NORTH ARROW Room Name 10101 ROOM NAME & NUMBER I0101 ROOM NAME & NUMBER I0101 A STOREFRONT OR WINDOW TYPE Image: A structure		SIM BUILDING	
ANNC	- PROJECT NORTH NORTH ARROW TRUE NORTH NORTH ROOM NAME NORTH ROOM NAME & NUMBER 10101 ROOM NAME & NUMBER (10101) STOREFRONT OR WINDOW TYPE (A) STOREFRONT OR WINDOW TYPE (A) STOREFRENCE (B) (C) (D) CEILING PLANE HEIGHT - ALL (D) (C) (D) <td< td=""><td>A120E $A120E$ $A120E$ $A120E$ $A120E$ $A120E$ $A101$ $A101$ $A101$ $A101$ $A101$ SIM $A101$ SIM</td><td>SCHEDULE RELITE NUMBER - SEE RELITE SCHEDULE GRID LINE SIM BUILDING SECTION</td><td></td></td<>	A120E $A120E$ $A120E$ $A120E$ $A120E$ $A120E$ $A101$ $A101$ $A101$ $A101$ $A101$ SIM $A101$ SIM	SCHEDULE RELITE NUMBER - SEE RELITE SCHEDULE GRID LINE SIM BUILDING SECTION	
ANNC	PROJECT NORTH NORTH ARROW TRUE NORTH NORTH ARROW Room Name [10101] ROOM NAME & NUMBER Intervention STOREFRONT OR WINDOW TYPE Image: A structure Image: A structure Image: A structure	A120E	SCHEDULE RELITE NUMBER - SEE RELITE SCHEDULE GRID LINE SIM BUILDING SECTION WALL SECTION DETAIL SECTION	
ANNC	PROJECT NORTH NORTH ARROW TRUE NORTH NORTH ARROW Room Name 10101 ROOM NAME & NUMBER I0101 Image: Comparison of the state of t	A120E $A120E$ $A120E$ $A120E$ $A120E$ $A120E$ $A101$ $A101$ $A101$ $A101$ $A101$ $A101$ $A101$ $A101$	SCHEDULE RELITE NUMBER - SEE RELITE SCHEDULE GRID LINE SIM BUILDING SECTION WALL SECTION DETAIL SECTION	
ANNC	PROJECT NORTH NORTH ARROW TRUE NORTH NORTH ARROW Room Name [10101] ROOM NAME & NUMBER (10101] ROOM NAME & NUMBER (10101] (A) STOREFRONT OR WINDOW TYPE (A) STOREFRONT OR WINDOW TYPE (10101) (C) (10101) (C) (A) STOREFRONT OR WINDOW TYPE (A) STOREFRONT OR WINDOW TYPE (10101) (C) (10101) (C) (10101) (C) (10101) (C) (C) (C) (A120E $A120E$ $A120E$ $A120E$ $A120E$ $A120E$ $A101$ $A101$ $A101$ $A101$ $A101$ $A101$ $A101$ $A101$	SCHEDULE RELITE NUMBER - SEE RELITE SCHEDULE GRID LINE SIM BUILDING SECTION WALL SECTION DETAIL SECTION	
	PROJECT NORTH NORTH ARROW TRUE NORTH NORTH ARROW Room Name [10101] ROOM NAME & NUMBER (10101] ROOM NAME & NUMBER (10101] (A) STOREFRONT OR WINDOW TYPE (A) STOREFRONT OR WINDOW TYPE (10101) (C) (10101) (C) (A) STOREFRONT OR WINDOW TYPE (A) STOREFRONT OR WINDOW TYPE (10101) (C) (10101) (C) (10101) (C) (10101) (C) (C) (C) (A120E $A120E$ $A120E$ $A120E$ $A120E$ $A120E$ $A101$ $A101$ $A101$ $A101$ $A101$ $A101$ $A101$ $A101$	SCHEDULE RELITE NUMBER - SEE RELITE SCHEDULE GRID LINE SIM BUILDING SECTION WALL SECTION DETAIL SECTION	
OWNER	PROJECT NORTH NORTH ARROW TRUE NORTH NORTH ARROW Room Name [10101] ROOM NAME & NUMBER (10101] ROOM NAME & NUMBER (10101] (A) STOREFRONT OR WINDOW TYPE (A) STOREFRONT OR WINDOW TYPE (10101) (C) (10101) (C) (A) STOREFRONT OR WINDOW TYPE (A) STOREFRONT OR WINDOW TYPE (10101) (C) (10101) (C) (10101) (C) (10101) (C) (C) (C) (A120E $A120E$ $A120E$ $A120E$ $A120E$ $A120E$ $A101$ $A101$ $A101$ $A101$ $A101$ $A101$ $A101$ $A101$	SCHEDULE RELITE NUMBER - SEE RELITE SCHEDULE GRID LINE GRID LINE BUILDING SECTION WALL SECTION DETAIL SECTION DETAIL SECTION MECHANICAL, E	
	PROJECT NORTH ARROW TRUE NORTH ARROW Room Name ROOM NAME & NUMBER 10101 A A STOREFRONT OR WINDOW TYPE A STOREFRONT OR WINDOW TYPE A STOREFRENCE O'-O' CELLING PLANE HEIGHT - ALL REFERENCES TO FINISH FLOOR ELEVATION D'-O' HORIZONTAL ELEVATION PLANE HEIGHT - ALL REFERENCES TO F.F.E. O'-O' SPOT ELEVATION - ALL REFERENCES TO F.F.E. A1 WALL TYPE WITH FIRE AND STC RATING WHERE APPLICABLE	A120E A120E (1) (1) (1) (1) (1) (1) (1) (1)	SCHEDULE RELITE NUMBER - SEE RELITE SCHEDULE GRID LINE GRID LINE BUILDING SECTION WALL SECTION DETAIL SECTION DETAIL SECTION MECHANICAL, F PLUMBING	

Seismic

VICINITY MAP



ABBREVIATIONS

	<u> </u>		
ADMIN ALUM BF CR CW CB CJ CG CL COMM CONC CT CE DIA DWGS ELEC ELEV EQ ESL EXT FRR FD FL G/S GALV GR- GWB HSS HR- JAN MAX MECH	ATCH BASIN CONTROL JOINT CORNER GUARD CENTER LINE COMMUNICATION CONCRETE RAMIC TILE DIAMETER DRAWINGS ELECTRICAL. ELEVATOR EQUAL ENGLISH AS SECOND LANGUAGE EXTERIOR FIRE RESISTANCE RATING OOR DRAIN FLOOR GRADUATE STUDENT GALVANIZED GUARDRAIL TYPE GYPSUM WALL BOARD HOLLOW STRUCTURAL STEEL HANDRAIL TYPE JANITOR MAXIMUM MECHANICAL	O.C. O.W.S.J. P PART PL- PREF PT R RO RCP RD REQ'D RM SG SA SS SIM SPECS SQ M STOR STOR STRUCT TA TB TH TH TH TH TH TH TH TH TH TH TH TH TH	ON CENTER OPEN WEB STEEL JOIST PROJECTOR PARTITION PLASTIC LAMINATE TYPE PRE-FINISHED PAINTED RADIUS ROUGH OPENING REFLECTED CEILING PLAN ROOF DRAIN REQUIRED ROOM SPANDREL GLAZING SELF ADHERED STAINLESS STEEL SIMILAR SPECIFICATIONS SQUARE METER STORAGE STRUCTURAL TEACHER'S ASSISTANCE TACK BOARDS IICK TYPICAL UNDER GRADUATE UNDERSIDE UNIVERSITY VISION GLAZING WHITE BOARD WITH
	JANITOR		
MAX	MAXIMUM		WHITE BOARD
MECH	MECHANICAL	W/	WITH
MIN	MINIMUM	WC	WASHROOM
NIC	NOT IN CONTRACT	WD	WOOD

ROOF CONSULTANT

COST CONSULTANT

PROFESSIONAL ROOF CONSU. 1108 SE GRAND AVE. SUITE 300 PORTLAND, OREGON, 97214 PHONE: (503) 280-8759

INTERIOR ELEVATION

REVISION CLOUD

DETAIL

1 A101

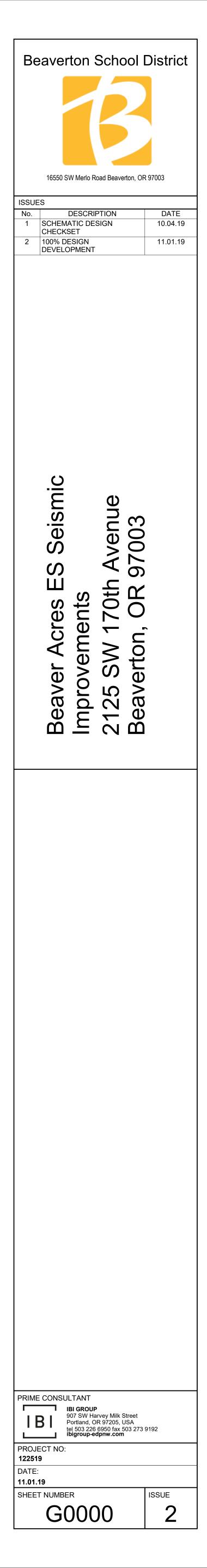
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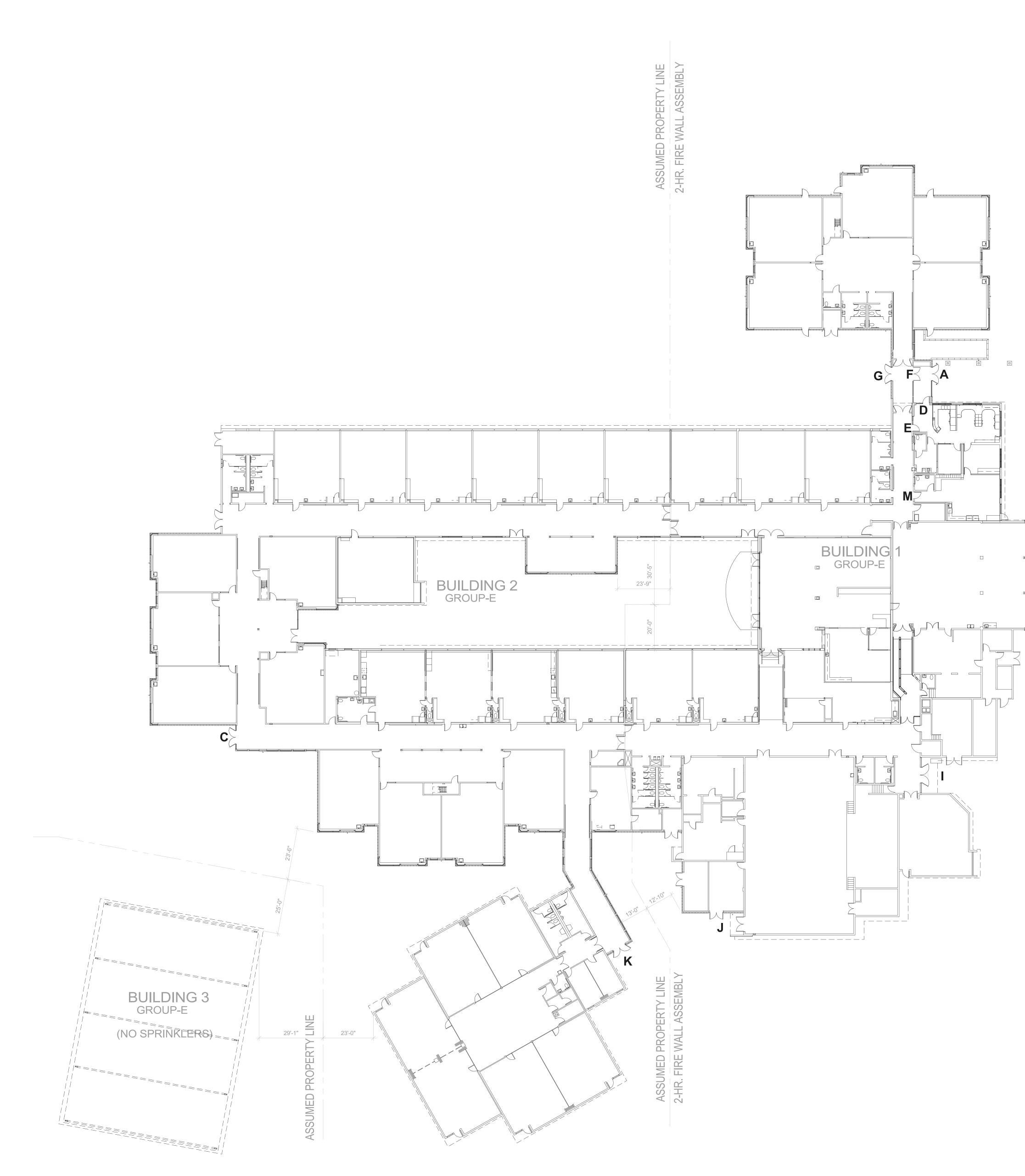
ACC COST CONSULTANTS 8060 SW PFAFFLE ST #110 PORTLAND, OREGON, 97223 PHONE: (503) 718-0075

100% DESIGN DEVELOPMENT

NOT FOR CONSTRUCTION

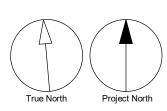
ARCHITECT AG1101	URAL CODE ANALYSIS	P201U	UNDERGROUND/TUNNEL PLAN OVERALL - PLUMBING
AG1201	SITE PLAN	P201	FIRST FLOOR PLAN OVERALL - PLUMBING
AD1101	LEVEL 01 - DEMOLITION PLAN	P201AU	UNDERGROUND/TUNNEL PLAN - SECTOR A
AD1301	ROOF - DEMOLITION PLAN	P201BU	PLUMBING UNDERGROUND/TUNNEL PLAN - SECTOR B
AD1501A	LEVEL 01 - DEMOLITION PLAN - SECTOR A	PZUIDU	PLUMBING
AD1501B	LEVEL 01 - DEMOLITION PLAN - SECTOR B	P201CU	UNDERGROUND/TUNNEL PLAN - SECTOR C
AD1501C AD1501D	LEVEL 01 - DEMOLITION PLAN - SECTOR C LEVEL 01 - DEMOLITION PLAN - SECTOR D		PLUMBING
AD1501D	LEVEL 01 - DEMOLITION PLAN - SECTOR M	P201DU	UNDERGROUND/TUNNEL PLAN - SECTOR D PLUMBING
AD1701A	ROOF - DEMOLITION PLAN - SECTOR A	P201A	FIRST FLOOR PLAN - SECTOR A - PLUMBING
AD1701B	ROOF - DEMOLITION PLAN - SECTOR B	P201B	FIRST FLOOR PLAN - SECTOR B - PLUMBING
AD1701C	ROOF - DEMOLITION PLAN - SECTOR C	P201C	FIRST FLOOR PLAN - SECTOR C - PLUMBING
AD1701D	ROOF - DEMOLITION PLAN - SECTOR D	P201D	FIRST FLOOR PLAN - SECTOR D - PLUMBING
AD1701M	ROOF - DEMOLITION PLAN - SECTOR M	P301	ROOF PLAN OVERALL - PLUMBING - ADD
AD2101 AD4210	BUILDING ELEVATIONS - DEMOLITION	ELECTRIC	
A1101	FLOOR PLAN - LEVEL 01 - OVERALL	E000	SYMBOL LIST AND GENERAL NOTES -
A1401	ROOF PLAN - OVERALL		ELECTRICAL
A1501A	FLOOR PLAN - LEVEL 01 - SECTOR A	ED101	FIRST FLOOR OVERALL DEMO PLAN -
A1501B	FLOOR PLAN - LEVEL 01 - SECTOR B	ED101A	LIGHTING FIRST FLOOR DEMO PLAN - SECTOR A -
A1501C	FLOOR PLAN - LEVEL 01 - SECTOR C FLOOR PLAN - LEVEL 01 - SECTOR D	LUIUIA	LIGHTING
A1501D A1501M	FLOOR PLAN - LEVEL 01 - SECTOR D	ED101B	FIRST FLOOR DEMO PLAN - SECTOR B -
A1601	REFLECTED CEILING PLAN - LEVEL 01 -		
	OVERALL	ED101C	FIRST FLOOR DEMO PLAN - SECTOR C - LIGHTING
A1601A	REFLECTED CEILING PLAN - LEVEL 01 -	ED101D	FIRST FLOOR DEMO PLAN - SECTOR D -
A1601B	SECTOR A REFLECTED CEILING PLAN - LEVEL 01 -		LIGHTING
	SECTOR B	ED101M	FIRST FLOOR DEMO PLAN - SECTOR M -
A1601C	REFLECTED CEILING PLAN - LEVEL 01 -	ED201	LIGHTING FIRST FLOOR OVERALL DEMO PLAN -
A / C C · -	SECTOR C		ELECTRICAL
A1601D	REFLECTED CEILING PLAN - LEVEL 01 - SECTOR D	ED201A	FIRST FLOOR DEMO PLAN - SECTOR A -
A1601M	REFLECTED CEILING PLAN - LEVEL 01 -		
	SECTOR M	ED201B	FIRST FLOOR DEMO PLAN - SECTOR B - ELECTRICAL
A1701A	ROOF PLAN - SECTOR A	ED201C	FIRST FLOOR DEMO PLAN - SECTOR C -
A1701B	ROOF PLAN - SECTOR B		ELECTRICAL
A1701C	ROOF PLAN - SECTOR C	ED201D	FIRST FLOOR DEMO PLAN - SECTOR D -
A1701D A1701M	ROOF PLAN - SECTOR D ROOF PLAN - SECTOR M	5000414	
A1701M A2110	BUILDING ELEVATIONS	ED201M	FIRST FLOOR DEMO PLAN - SECTOR M - ELECTRICAL
A4210	INTERIOR ELEVATIONS	E101	FIRST FLOOR PLAN OVERALL - LIGHTING
STRUCTUR	AL	E101A	FLOOR PLAN - SECTOR A - LIGHTING
S0001	DRAWING INDEX AND LIST OF	E101B	FLOOR PLAN - SECTOR B - LIGHTING
00000	ABBREVIATIONS	E101C	FLOOR PLAN - SECTOR C - LIGHTING
S0002 S0003	GENERAL STRUCTURAL NOTES GENERAL STRUCTURAL NOTES CONT.	E101D	FLOOR PLAN - SECTOR D - LIGHTING
S0003	SPECIAL INSPECTION AND TESTING	E101M E201	FLOOR PLAN - SECTOR M - LIGHTING FIRST FLOOR PLAN OVERALL - ELECTRICAL
00004	PROGRAM	E201 E201A	FLOOR PLAN - SECTOR A - ELECTRICAL
S0005	SPECIAL INSPECTION AND TESTING	E201A	FLOOR PLAN - SECTOR B - ELECTRICAL
	PROGRAM CONT.	E201C	FLOOR PLAN - SECTOR C - ELECTRICAL
S1501A	FLOOR PLAN - LEVEL 01 - SECTOR A	E201D	FLOOR PLAN - SECTOR D - ELECTRICAL
S1501B S1501C	FLOOR PLAN - LEVEL 01 - SECTOR B FLOOR PLAN - LEVEL 01 - SECTOR C	E201M	FLOOR PLAN - SECTOR M - ELECTRICAL
S1501C	FLOOR PLAN - LEVEL 01 - SECTOR C	E301	ROOF PLAN - ELECTRICAL
S1501M	FLOOR PLAN - LEVEL 01 - SECTOR M		
S1701A	ROOF FRAMING PLAN - SECTOR A		
S1701B	ROOF FRAMING PLAN - SECTOR B		
S1701C	ROOF FRAMING PLAN - SECTOR C		
S1701D	ROOF FRAMING PLAN - SECTOR D		
S1701M	ROOF FRAMING PLAN - SECTOR M CONCRETE DETAILS		
S5001 S6001	FRAMING DETAILS		
MECHANICA			
M000	SYMBOL LIST AND GENERAL NOTES -		
MD201	FIRST FLOOR DEMO PLAN OVERALL - MECHANICAL		
MD201A	DEMO FLOOR PLAN - SECTOR A -		
	MECHANICAL		
MD201B	DEMO FLOOR PLAN - SECTOR B-		
MD201C	MECHANICAL DEMO FLOOR PLAN - SECTOR C -		
	MECHANICAL		
MD201D	DEMO FLOOR PLAN - SECTOR D -		
NA00 /			
M201	FIRST FLOOR PLAN OVERALL - MECHANICAL		
M201A M201B	FLOOR PLAN - SECTOR A - MECHANICAL FLOOR PLAN - SECTOR B - MECHANICAL		
M201B M201C	FLOOR PLAN - SECTOR B - MECHANICAL		
M201C M201D	FLOOR PLAN - SECTOR D - MECHANICAL		
M301	ROOF PLAN OVERALL - MECHANICAL		
PLUMBING			
P000	SYMBOL LIST AND GENERAL NOTES -		
PD200U	PLUMBING UNDERGROUND/TUNNEL DEMO PLAN		
	OVERALL - PLUMBING		
PD201AU	UNDERGROUND/TUNNEL DEMO PLAN -		
	SECTOR A - PLUMBING		
PD201BU	UNDERGROUND/TUNNEL DEMO PLAN - SECTOR B - PLUMBING		
PD201CU	UNDERGROUND/TUNNEL DEMO PLAN -		
	SECTOR C - PLUMBING		
PD201DU	UNDERGROUND/TUNNEL DEMO PLAN -		
	SECTOR D - PLUMBING		

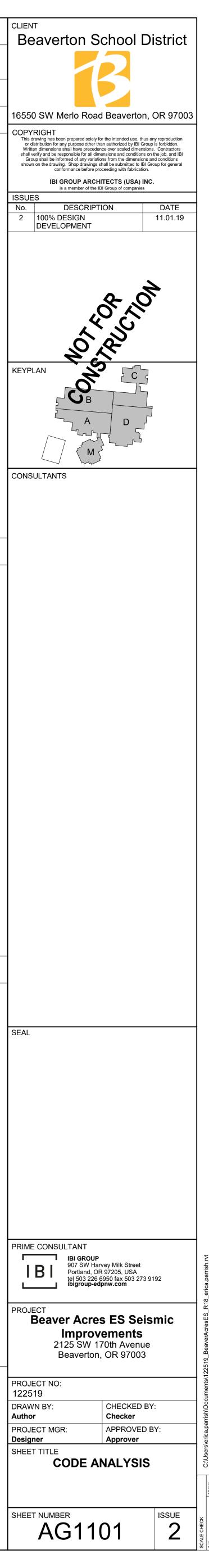


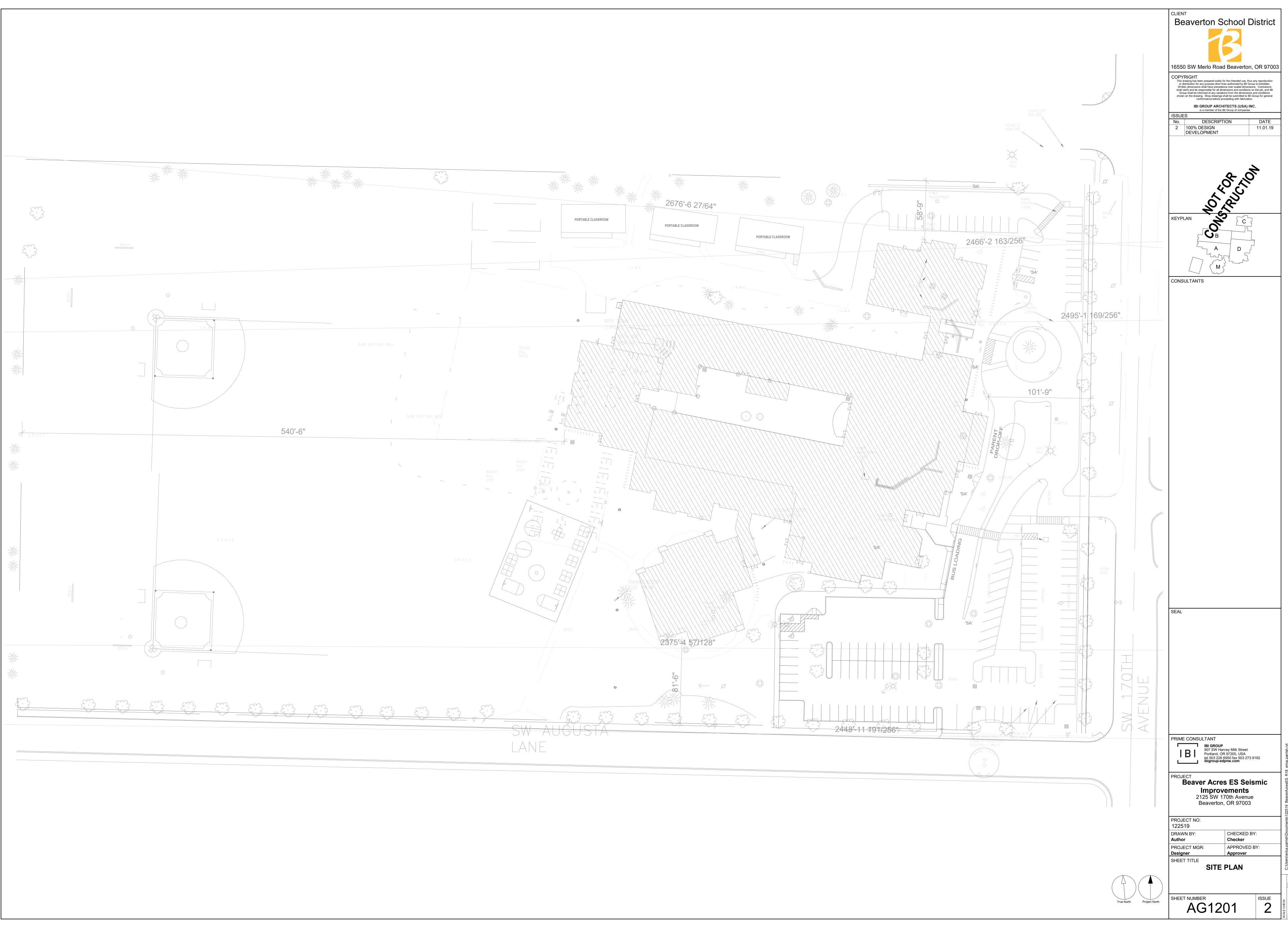


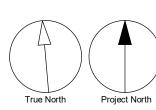
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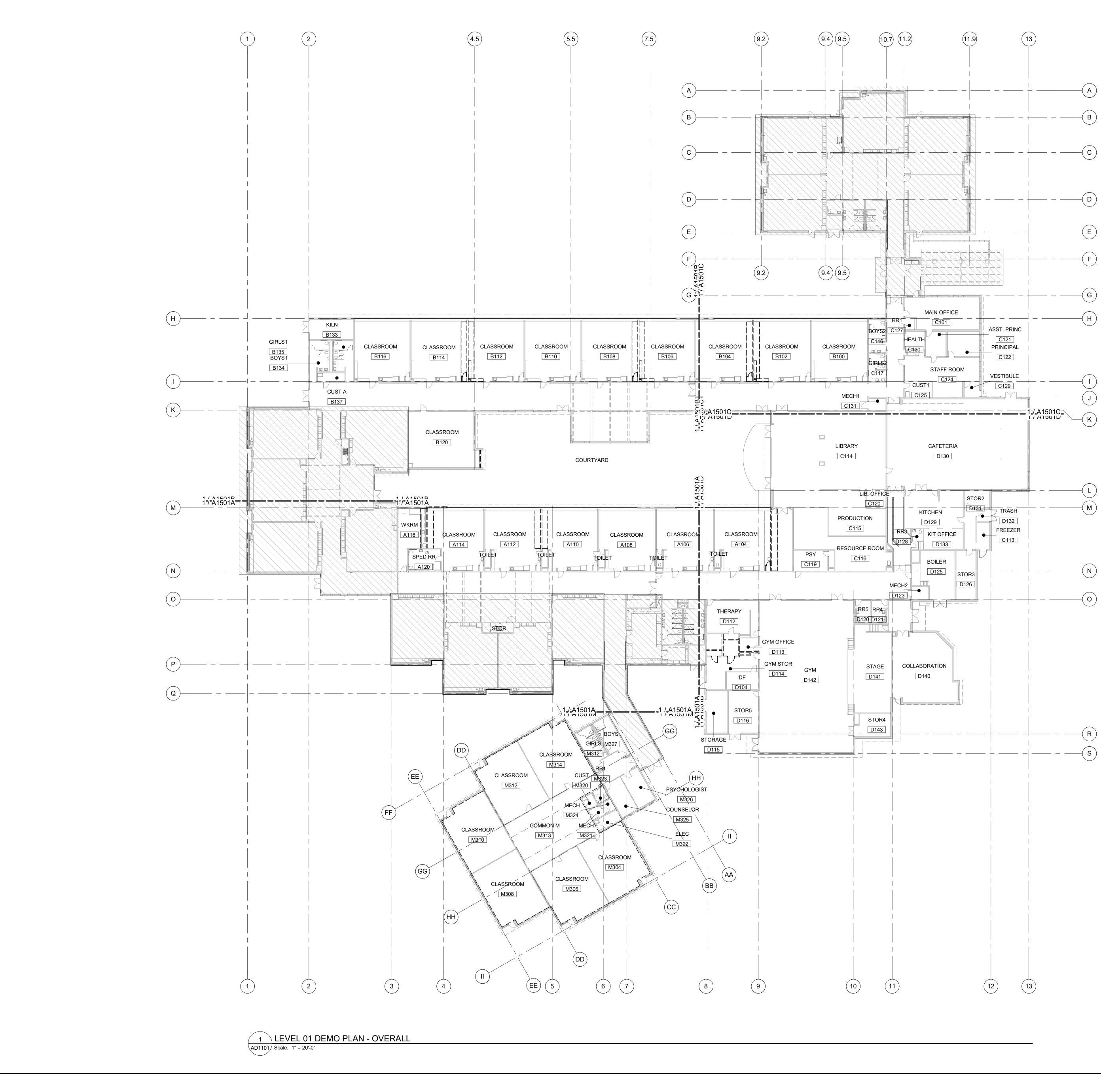
	CODE REVIEW NOTES:	LEGEND:
	1.THIS CODE REVIEW IS BASED ON THE 2019 O.S.S.C.	TWO HOUR FIRE WALL ASSEMBLY - 90 MINUTE RATED OPENINGS - ASSUMED PROPERTY LINE AT BUILDING
	2. THE SCOPE OF WORK FOR THIS PROJECT INCLUDES THE	ALLOWABLE AREA ANALYSIS:
	3. THE SCOPE OF THIS PROJECT ALSO INCLUDES	BUILDING I - CLASSROOMS, MEDIA CENTER, CAFETERIA, GYMNASIUM
	4. ROUTING OF ELECTRICAL CONDUIT MAY INCLUDE PENETRATION OF EXISTING FIREWALLS. THE FIREWALLS ARE SHOWN ON THIS PLAN TO INDICATE TO THE CONTRACTOR AND BUILDING INSPECTOR WHERE FIRESTOPPING OR OTHER MEANS OF MAINTAINING THE INTEGRITY	SUMMARY: BUILDING 'I' IS SINGLE STORY COMBUSTIBLE CONSTRUCTION WITH PARTIAL OPEN FRONTAGE. IT HAS AN AUTOMATIC SPRINKLER SYSTEM THROUGHOUT PER SECTION 903.2.2.
	OF THE FIREWALL IS NEEDED.	USE & OCCUPANCY: EDUCATIONAL GROUP E CONSISTING OF CLASSROOMS, A LIBRARY, A CAFETERIA & A GYMNASIUM (NOTE: THE ASSEMBLY AREAS ARE ACCESSORY TO GROUP 'E' PER 508.3.1.2) CONSTRUCTION TYPE:
		TYPE V-B PER TABLE 503
		40' (PER TABLE 503) + 20' (SPRINKLER SYSTEM - PER 504.2) = 60 FEET ALLOWABLE NUMBER OF STORIES:
		1 STORY (PER TABLE 503) <u>ACTUAL NUMBER OF STORIES:</u> 1 STORY
		ALLOWABLE AREA: 9,500 SF PER TABLE 503
		AREA MODIFICATION: (PER SECTION 506)
		$I_{f} = 100 \left[\frac{F}{P} - 0.25\right] \frac{W}{30} = 100 \left[\frac{1118'}{1322'} - 0.25\right] \frac{20}{30} = 39.31$
		$I_{s} = 300 \text{ PERCENT} (\text{PER 506.3})$
		$A_{a} = A_{t} + \left[\frac{A_{t} \ I_{f}}{100}\right] + \left[\frac{A_{t} \ I_{s}}{100}\right] = 9500 + \left[\frac{(9,500)(39.91)}{100}\right] \left[\frac{(9,500)(300)}{100}\right]$
		A _a = 9,500 + 3,734 + 28,500 = 41,734 SF
		TOTAL ALLOWABLE AREA PER FLOOR: 41,734 SF TOTAL ACTUAL AREA: FIDER FLOOD, 20, 200 SE 1, 44, 204 OF 104
		FIRST FLOOR: 39,789 SF < 41,734 SF = OK (ACTUAL IS LESS THAN ALLOWABLE. THEREFORE, BUILDING 'I' AREA IS OK)
		BUILDING II - CLASSROOMS
		SUMMARY: BUILDING '2' IS SINGLE STORY COMBUSTIBLE CONSTRUCTION WITH PARTIAL OPEN FRONTAGE. IT HAS AN AUTOMATIC SPRINKLER SYSTEM THROUGHOUT PER SECTION 903.2.2.
		USE & OCCUPANCY: EDUCATIONAL GROUP E CONSISTING OF CLASSROOMS, A MEDIA CENTER, A CAFETERIA & GYMNASIUMS (NOTE THE ASSEMBLY AREAS ARE ACCESSORY TO GROUP 'E' PER 508.3.1.2)
		CONSTRUCTION TYPE: TYPE V-B PER TABLE 503
		ALLOWABLE HEIGHT: 40' (PER TABLE 503) + 20' (SPRINKLER SYSTEM - PER 504.2) = 60 FEET
		ALLOWABLE NUMBER OF STORIES: 1 STORY (PER TABLE 503) ACTUAL NUMBER OF STORIES:
		ALLOWABLE AREA:
		9,500 SF PER TABLE 503 AREA MODIFICATION: (PER SECTION 506)
		[F] = F] W = F [T] W = T [T] T]
		$I_{\rm f} = 100 \qquad \left[\frac{{\rm F}}{{\rm P}} - 0.25 \right] \frac{{\rm W}}{30} = 100 \qquad \left[\frac{1115'}{1322'} \right] 20$
1		$I_{s} = 300 \text{ PERCENT} (\text{PER 506.3}) - 0.25 \qquad \boxed{\frac{20}{30}} = 39.16$
l		$A_{a} = A_{t} + \left[\frac{A_{t} \ I_{f}}{100}\right] + \left[\frac{A_{t} \ I_{s}}{100}\right] = 9500 + \left[\frac{(9,500)(39.16)}{100}\right]$
		$A_a = 9,500 + 3,720 + 28,500 = 41,702 \text{ SF}$
		TOTAL ALLOWABLE AREA PER FLOOR: 41,702 SF TOTAL ACTUAL AREA: 39,716 SF < 41,702 SF = OK
		(ACTUAL IS LESS THAN ALLOWABLE. THEREFORE, BUILDING 'II' AREA IS OK)
		SUMMARY: BUILDING '3' IS SINGLE STORY COMBUSTIBLE CONSTRUCTION WITH OPEN FRONTAGE ON ALL SIDES. IT WILL HAVE NO AUTOMATIC FIRE SPRINKLER SYSTEM. USE & OCCUPANCY:
		EDUCATIONAL GROUP E CONSISTING OF COVERED PLAY STRUCTURE (NOTE: THE ASSEMBLY AREAS ARE ACCESSORY TO GROUP 'E' PER 508.3.1.2)
		CONSTRUCTION TYPE: TYPE V-B PER TABLE 503 ALLOWABLE HEIGHT:
		40' (PER TABLE 503) = 40 FEET ALLOWABLE NUMBER OF STORIES:
		1 STORY (PER TABLE 503) ACTUAL NUMBER OF STORIES:
		1 STORY ALLOWABLE AREA:
		9,500 SF PER TABLE 503 <u>AREA MODIFICATION:</u> (PER SECTION 506)
		$I_{f} = 100 \qquad \left[\frac{F}{P} - 0.25 \right] \frac{W}{30} = 100 \qquad \left[\frac{700'}{700'} \right]$
		$I_{s} = 100 \text{ PERCENT} (\text{PER 506.3}) - 0.25 \frac{20}{30}$
		$A_{a} = A_{t} + \left[\frac{A_{t} \ I_{f}}{100}\right] + \left[\frac{A_{t} \ I_{s}}{100}\right] = 9500 + \left[\frac{(9,500)(49.95)}{100}\right] = 49.95$
		$A_a = 9,500 + 4,745 + 9,500 = 23,745 \text{ SF}$ $\left[\frac{(9,500)(100)}{100} \right]$
		TOTAL ALLOWABLE AREA PER FLOOR: 23,745 SF
		TOTAL ACTUAL AREA: 7,392 SF < 23,745 SF = OK (ACTUAL IS LESS THAN ALLOWABLE. THEREFORE, BUILDING 'III' AREA IS OK)
		(ACTORE IS LESS THAN ALLOWADLE. THEREFORE, DUILDING III AKEA IS UK)





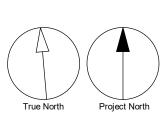


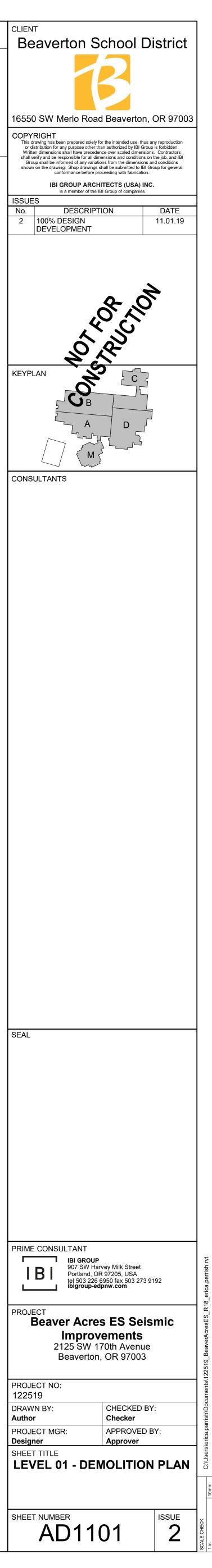


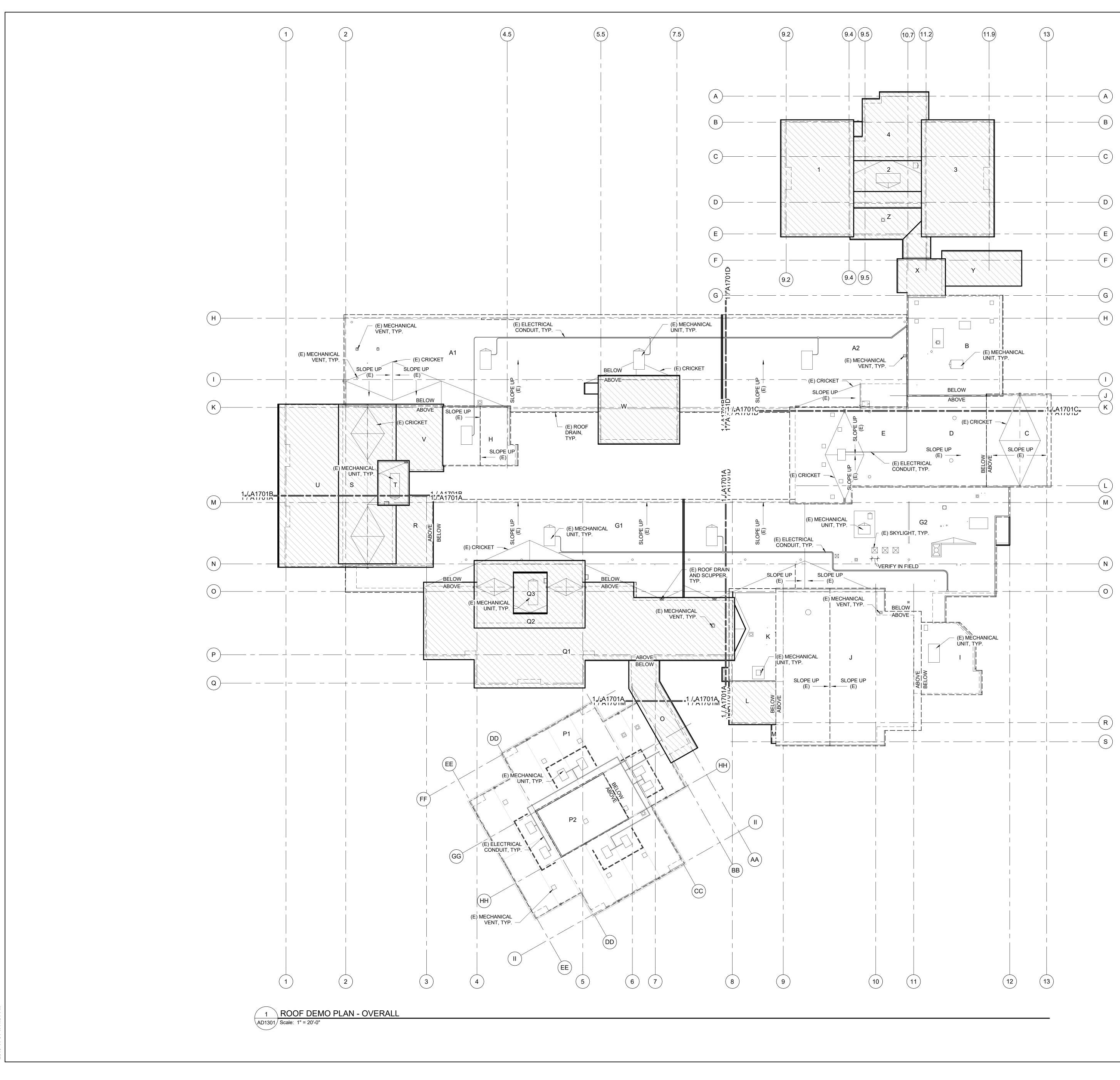


EXISTING TO REMAIN NEW CONSTRUCTION

AREA INDICATED NOT IN SCOPE



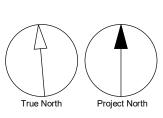


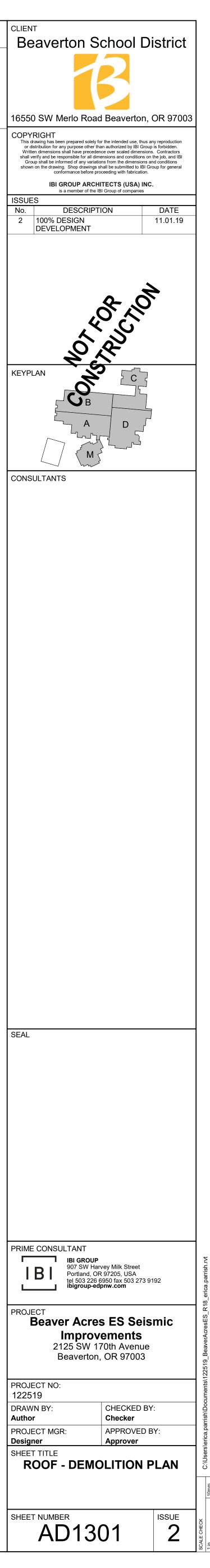


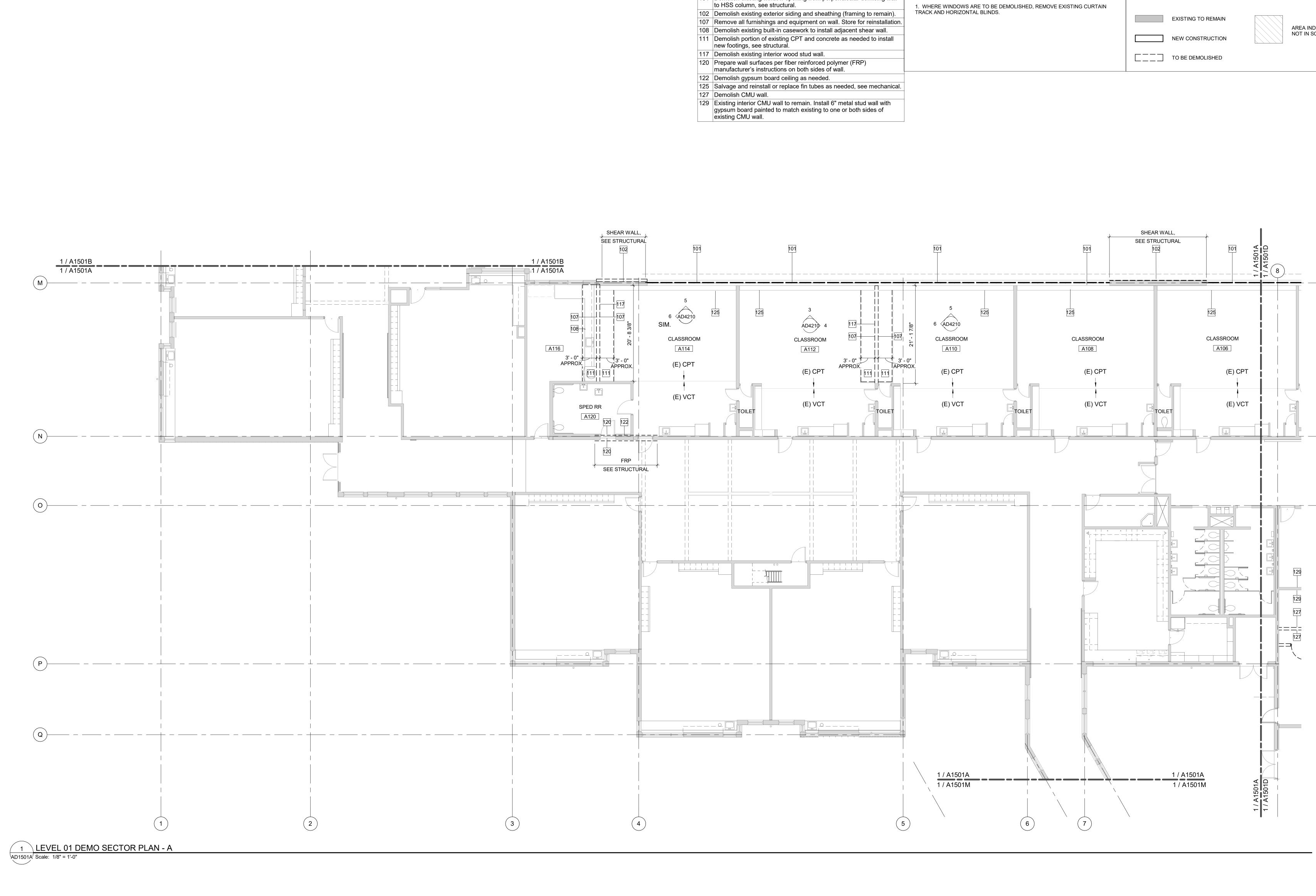
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LEGEND:



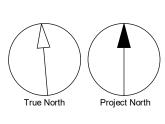


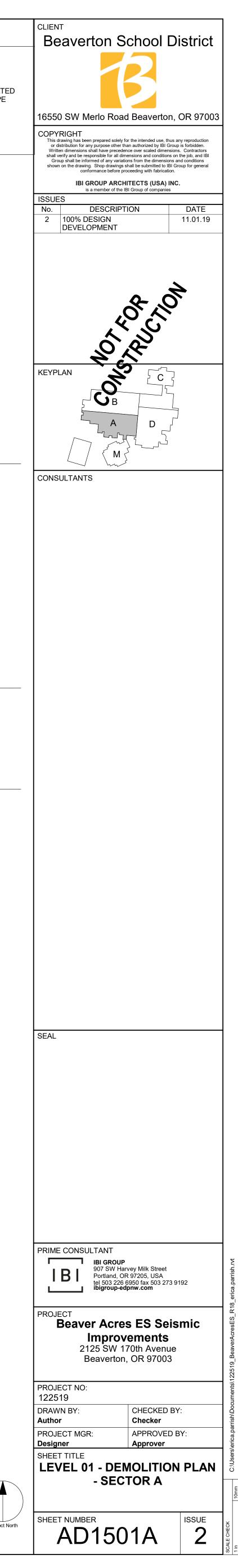


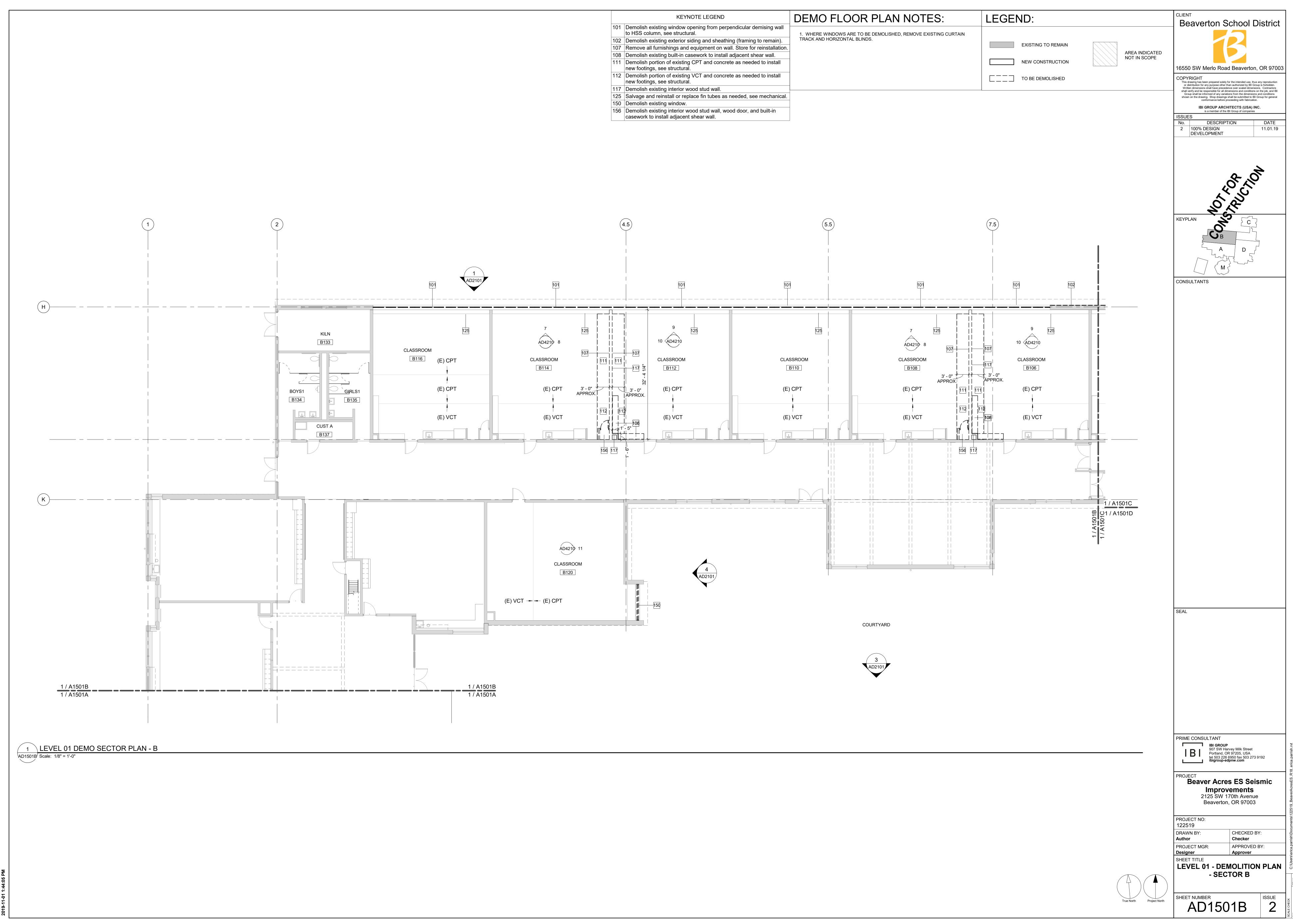


	KEYNOTE LEGEND
101	Demolish existing window opening from perpendicular demis to HSS column, see structural.
102	Demolish existing exterior siding and sheathing (framing to re
107	Remove all furnishings and equipment on wall. Store for rein
108	Demolish existing built-in casework to install adjacent shear
111	Demolish portion of existing CPT and concrete as needed to new footings, see structural.
117	Demolish existing interior wood stud wall.
120	Prepare wall surfaces per fiber reinforced polymer (FRP) manufacturer's instructions on both sides of wall.
122	Demolish gypsum board ceiling as needed.
125	Salvage and reinstall or replace fin tubes as needed, see me
127	Demolish CMU wall.
129	Existing interior CMU wall to remain. Install 6" metal stud wal

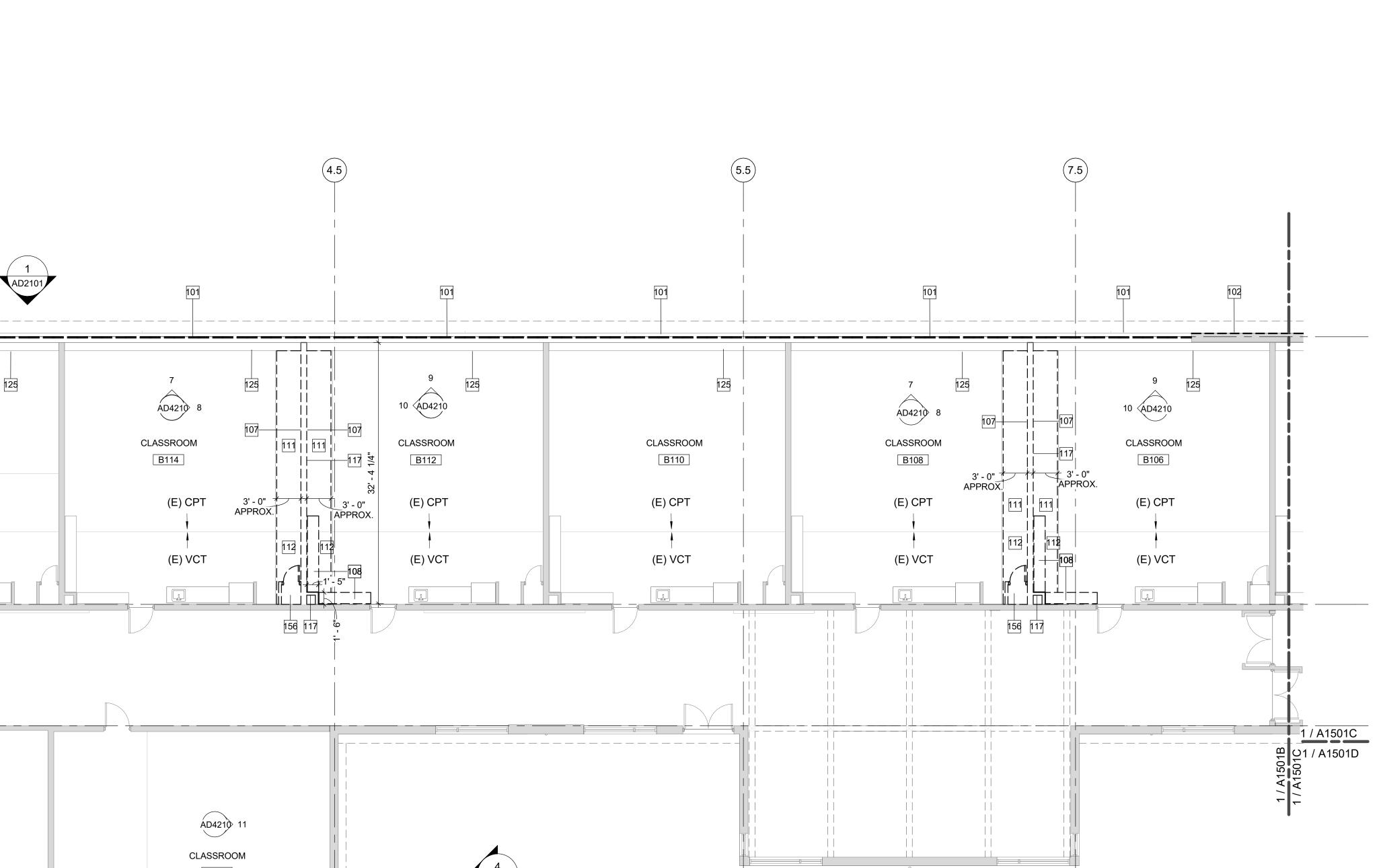
	DEMO FLOOR PLAN NOTES:	LEGEND:	
ng wall main). tallation. /all. nstall	1. WHERE WINDOWS ARE TO BE DEMOLISHED, REMOVE EXISTING CURTAIN TRACK AND HORIZONTAL BLINDS.	EXISTING TO REMAIN NEW CONSTRUCTION TO BE DEMOLISHED	
chanical.			



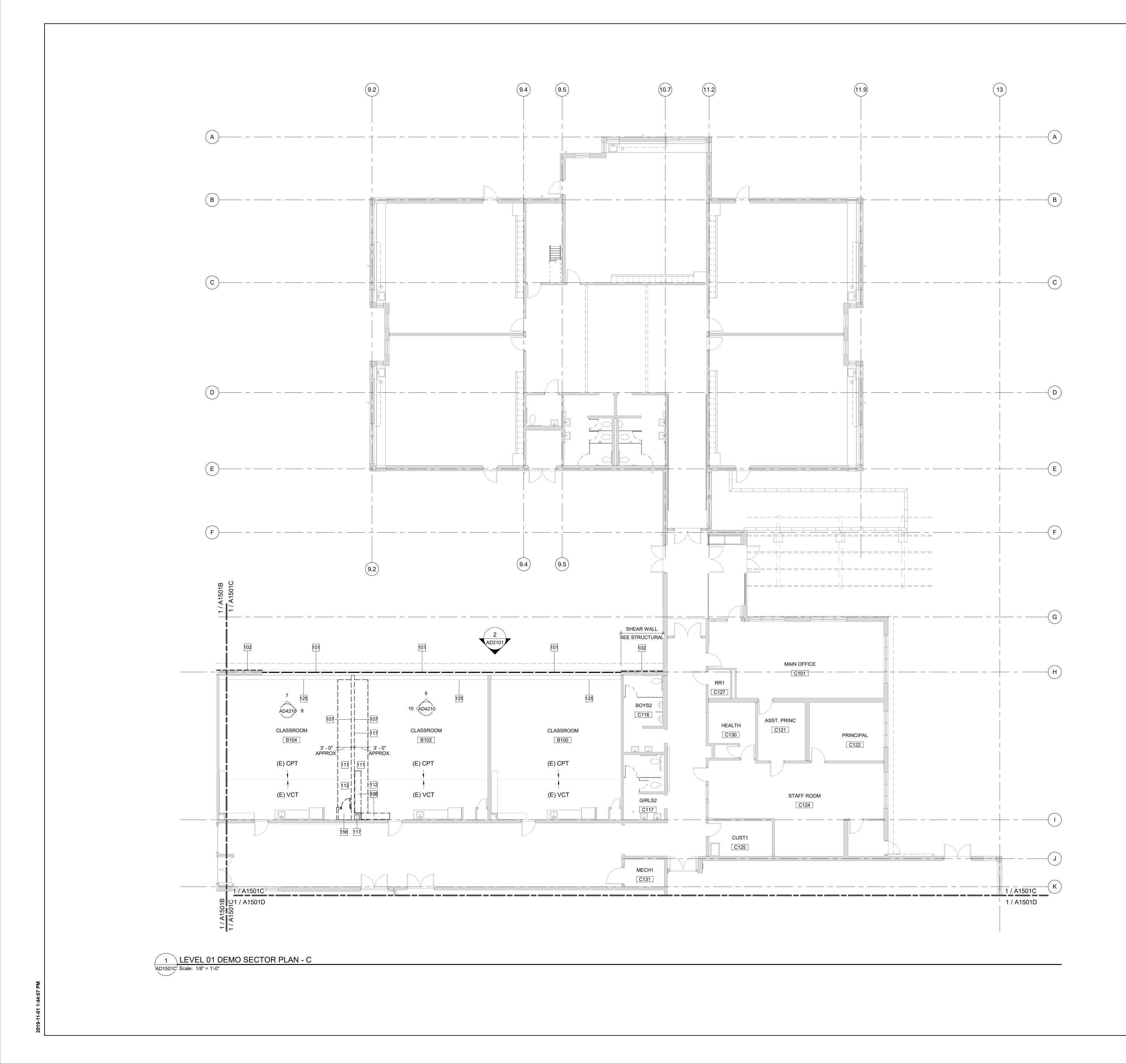




	KEYNOTE LEGEND
101	Demolish existing window opening from perpendicular demisin to HSS column, see structural.
102	Demolish existing exterior siding and sheathing (framing to rer
107	Remove all furnishings and equipment on wall. Store for reinst
108	Demolish existing built-in casework to install adjacent shear wa
111	Demolish portion of existing CPT and concrete as needed to in new footings, see structural.
112	Demolish portion of existing VCT and concrete as needed to in new footings, see structural.
117	Demolish existing interior wood stud wall.
125	Salvage and reinstall or replace fin tubes as needed, see mec
150	Demolish existing window.
156	Demolish existing interior wood stud wall, wood door, and built



	DEMO FLOOR PLAN NOTES:	LEGEND:
ng wall main). tallation. /all. install	1. WHERE WINDOWS ARE TO BE DEMOLISHED, REMOVE EXISTING CURTAIN TRACK AND HORIZONTAL BLINDS.	EXISTING TO REMAIN AREA INDICATED NOT IN SCOPE
chanical.		



EXISTING TO REMAIN AREA INDICATED NOT IN SCOPE NEW CONSTRUCTION DEMO FLOOR PLAN NOTES: 1. WHERE WINDOWS ARE TO BE DEMOLISHED, REMOVE EXISTING CURTAIN TRACK AND HORIZONTAL BLINDS. KEYNOTE LEGEND 101 Demolish existing window opening from perpendicular demising wall to HSS column, see structural. 102 Demolish existing exterior siding and sheathing (framing to remain). 107 Remove all furnishings and equipment on wall. Store for reinstallation. 108 Demolish existing built-in casework to install adjacent shear wall.

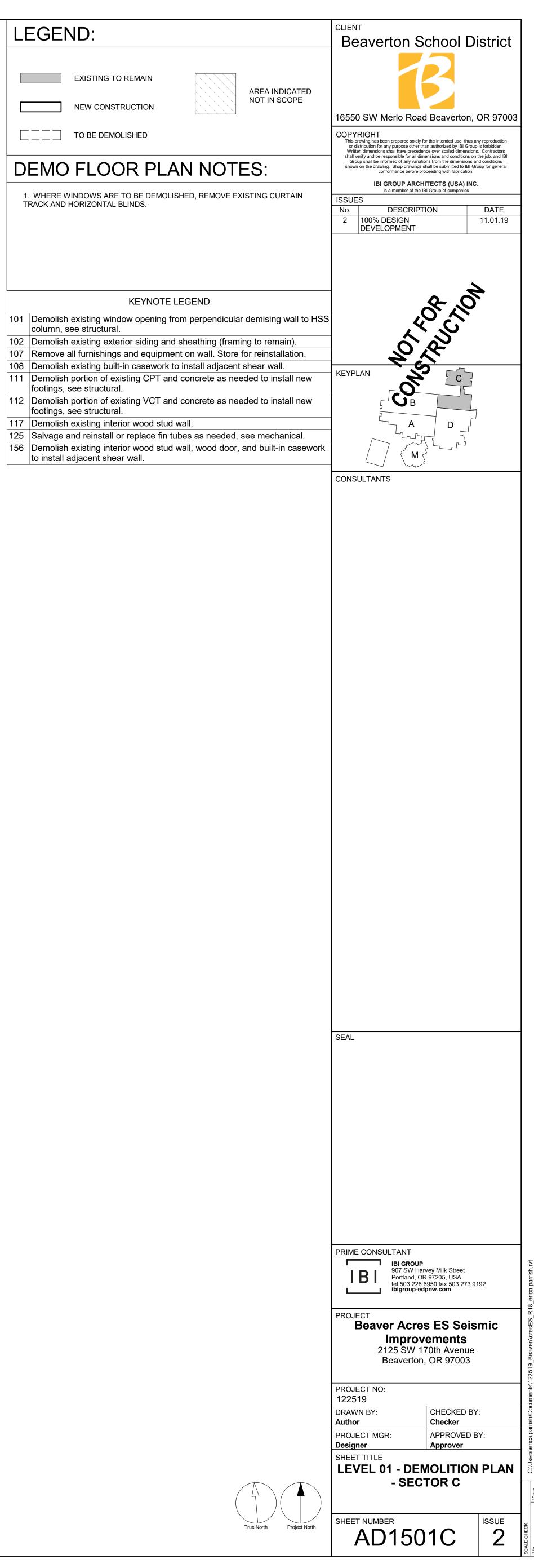
footings, see structural. 112 Demolish portion of existing VCT and concrete as needed to install new footings, see structural.

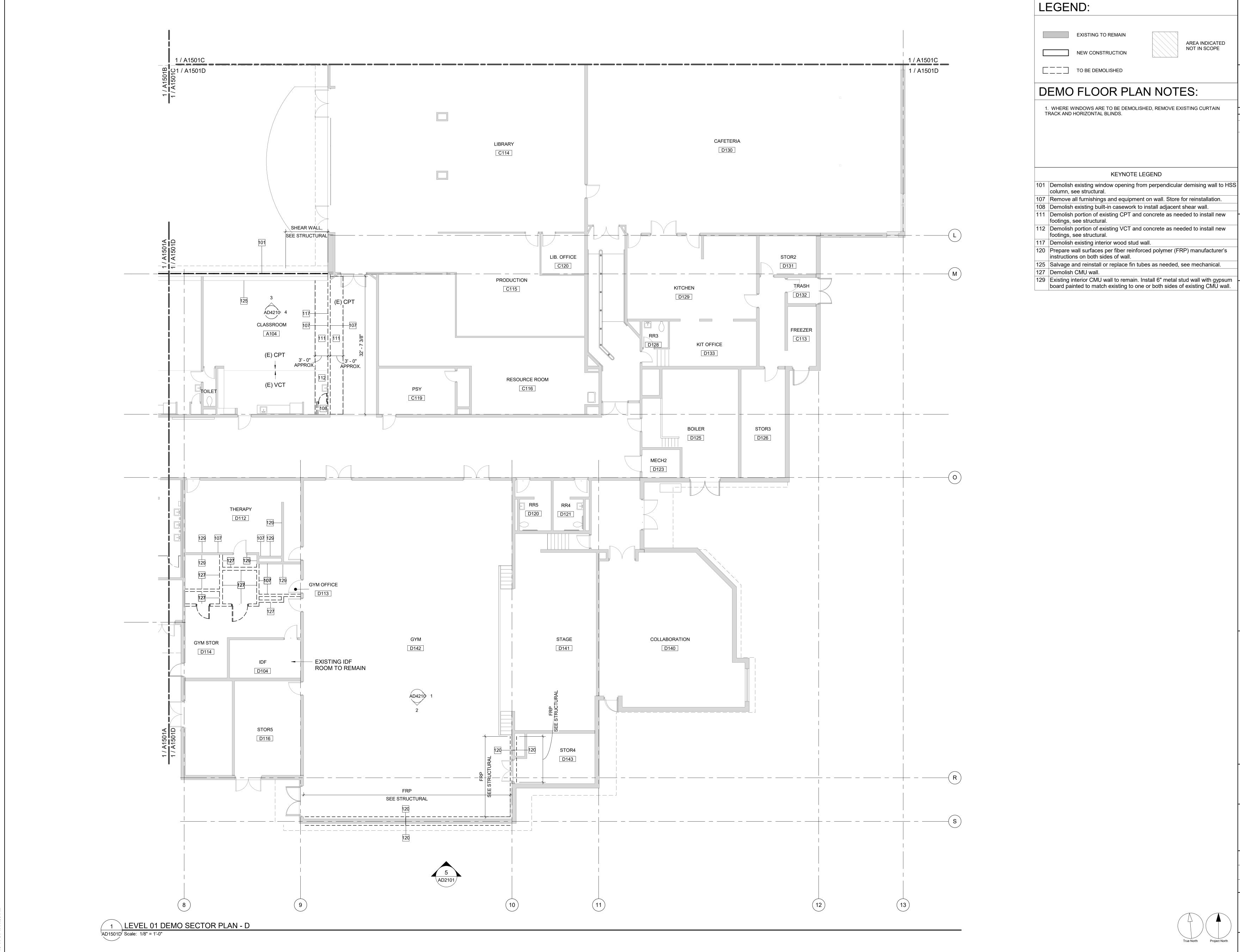
117 Demolish existing interior wood stud wall.

LEGEND:

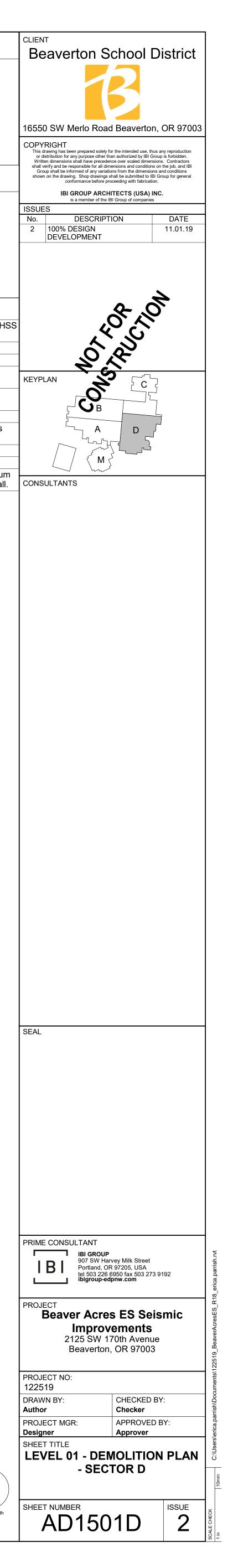
125 Salvage and reinstall or replace fin tubes as needed, see mechanical.

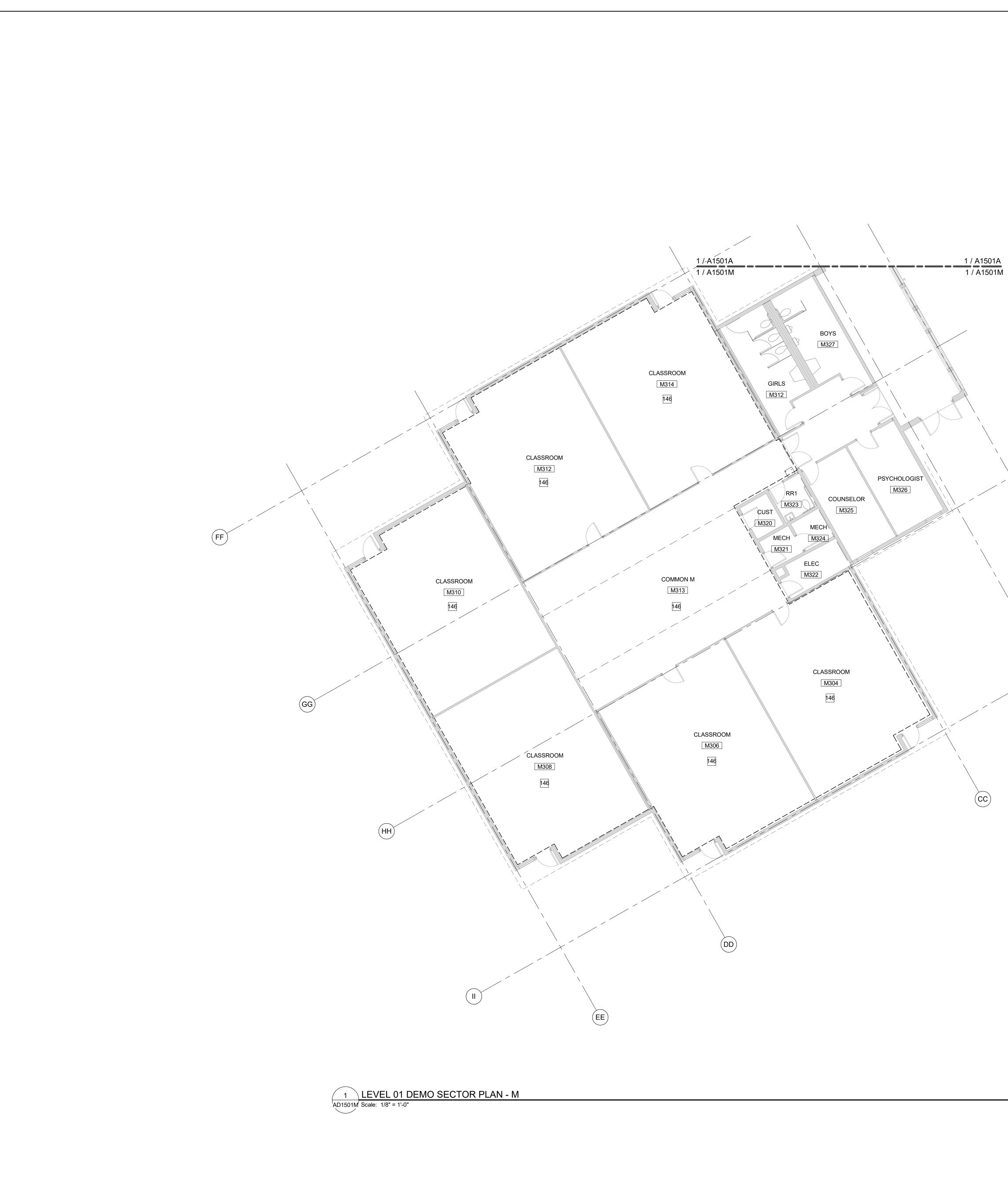
156 Demolish existing interior wood stud wall, wood door, and built-in casework to install adjacent shear wall.





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EXISTING TO REMAIN

NEW CONSTRUCTION

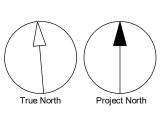
AREA INDICATED NOT IN SCOPE

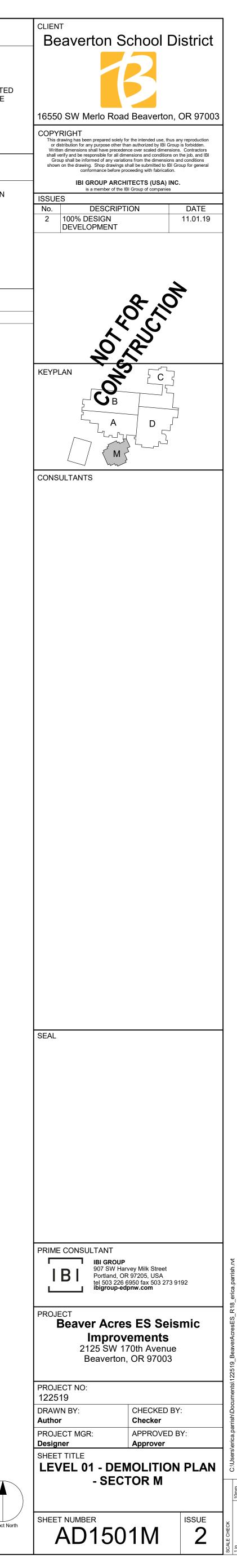
DEMO FLOOR PLAN NOTES:

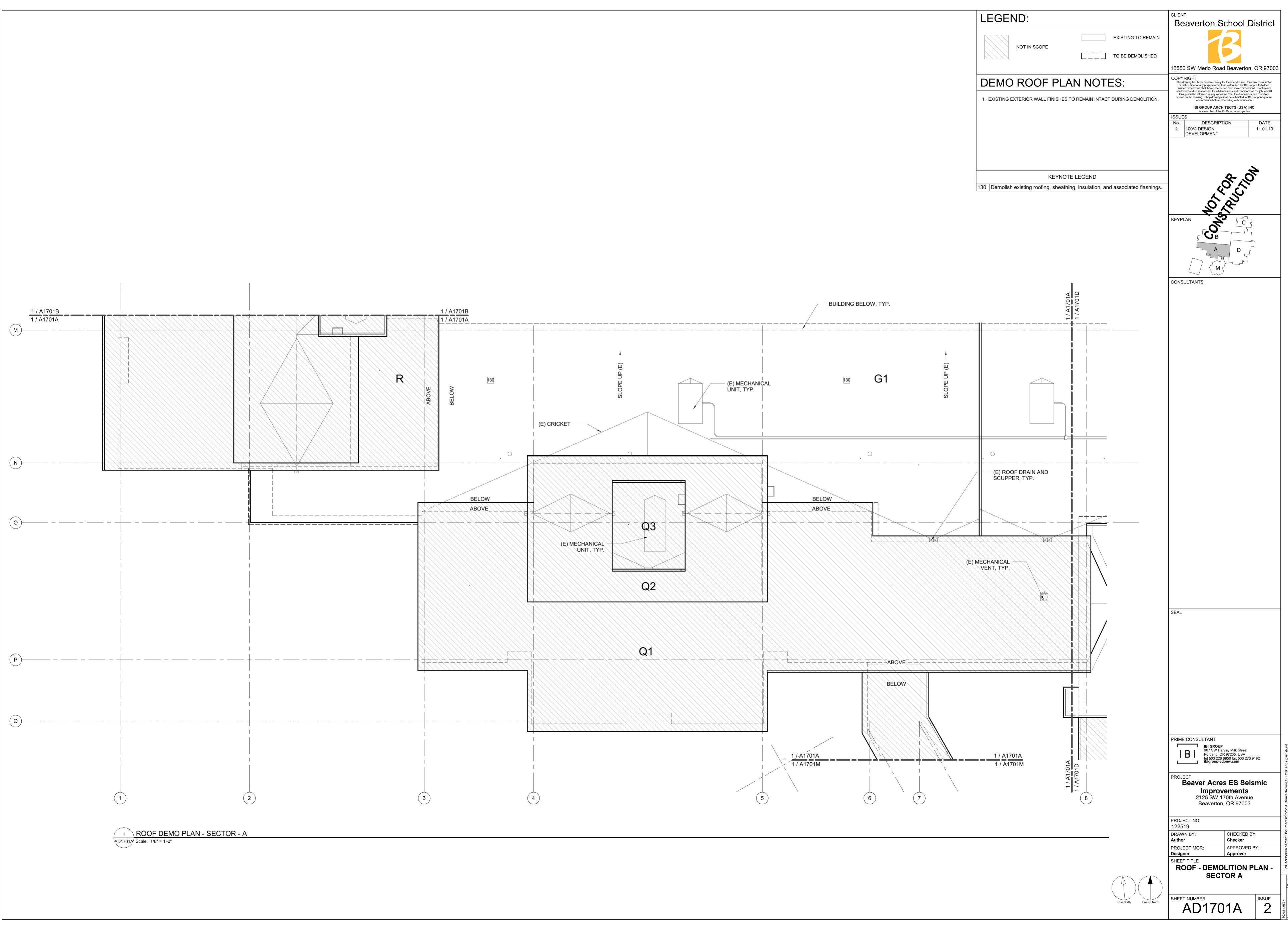
1. WHERE WINDOWS ARE TO BE DEMOLISHED, REMOVE EXISTING CURTAIN TRACK AND HORIZONTAL BLINDS.

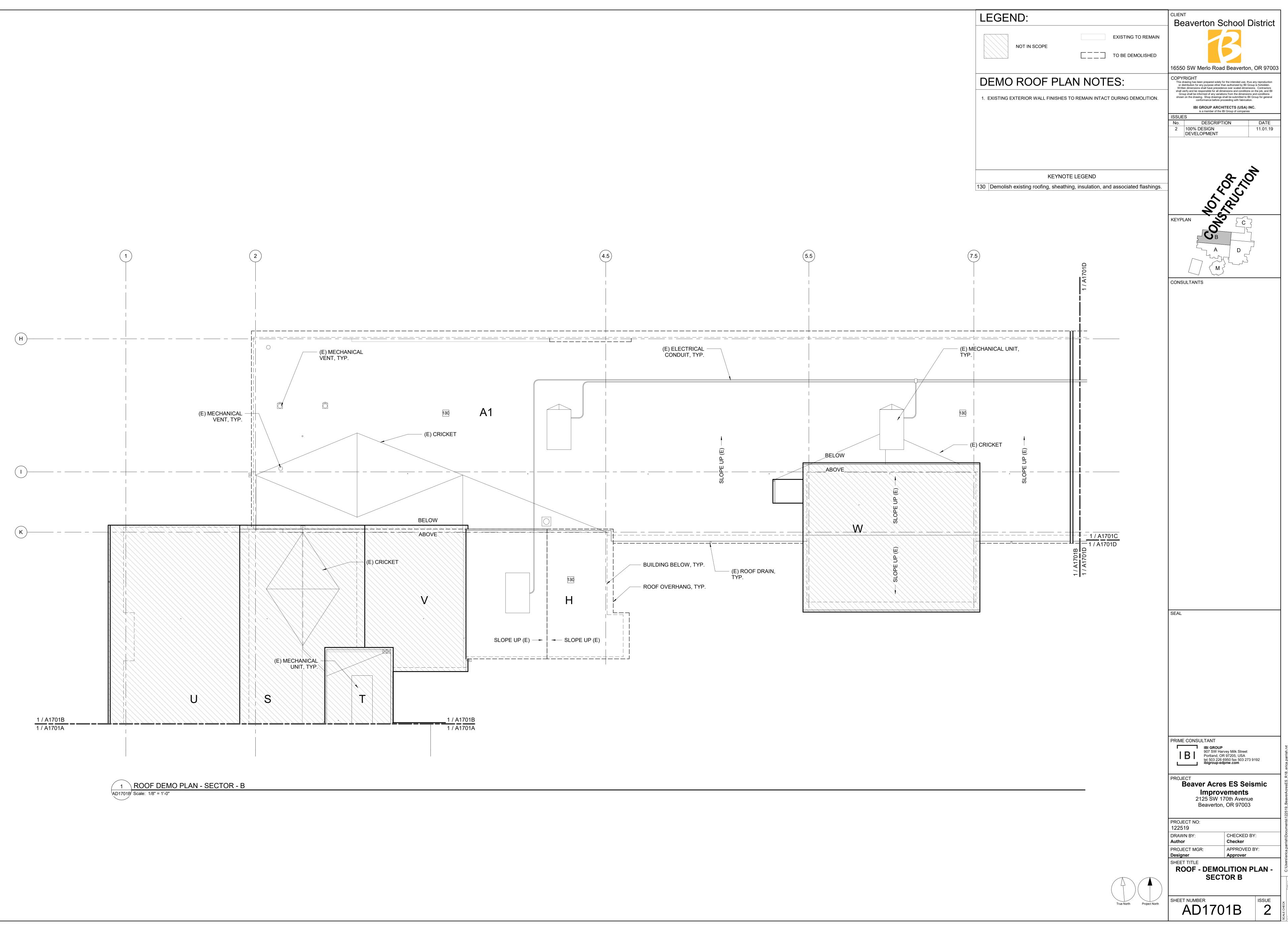
KEYNOTE LEGEND 146 Demolish existing CPT in entire room.

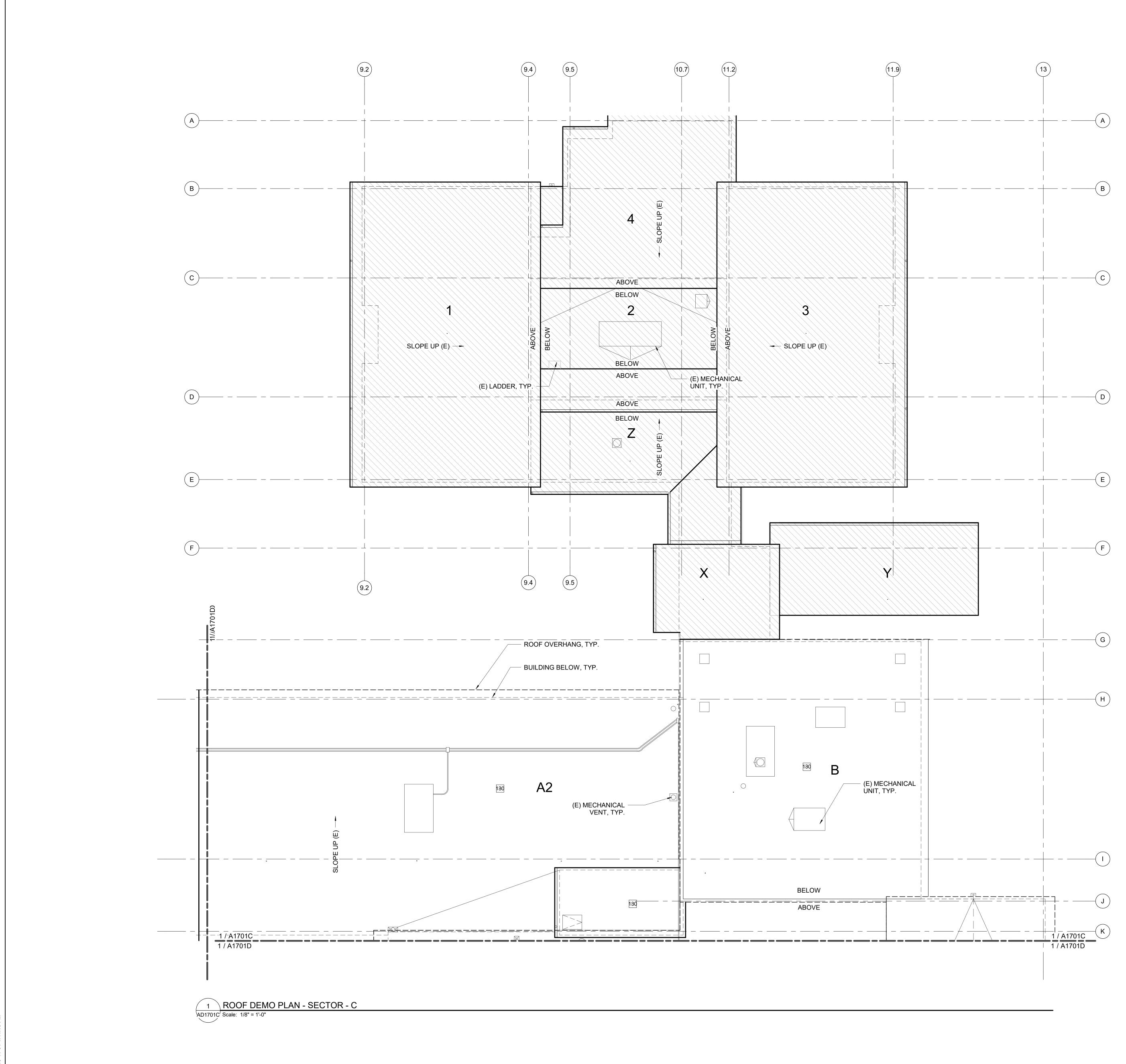
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LEGEND:

NOT IN SCOPE

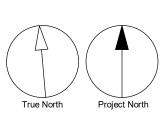
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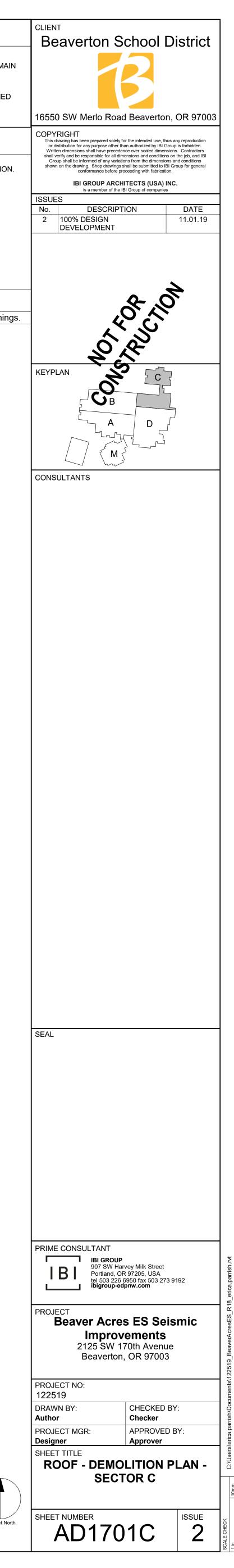
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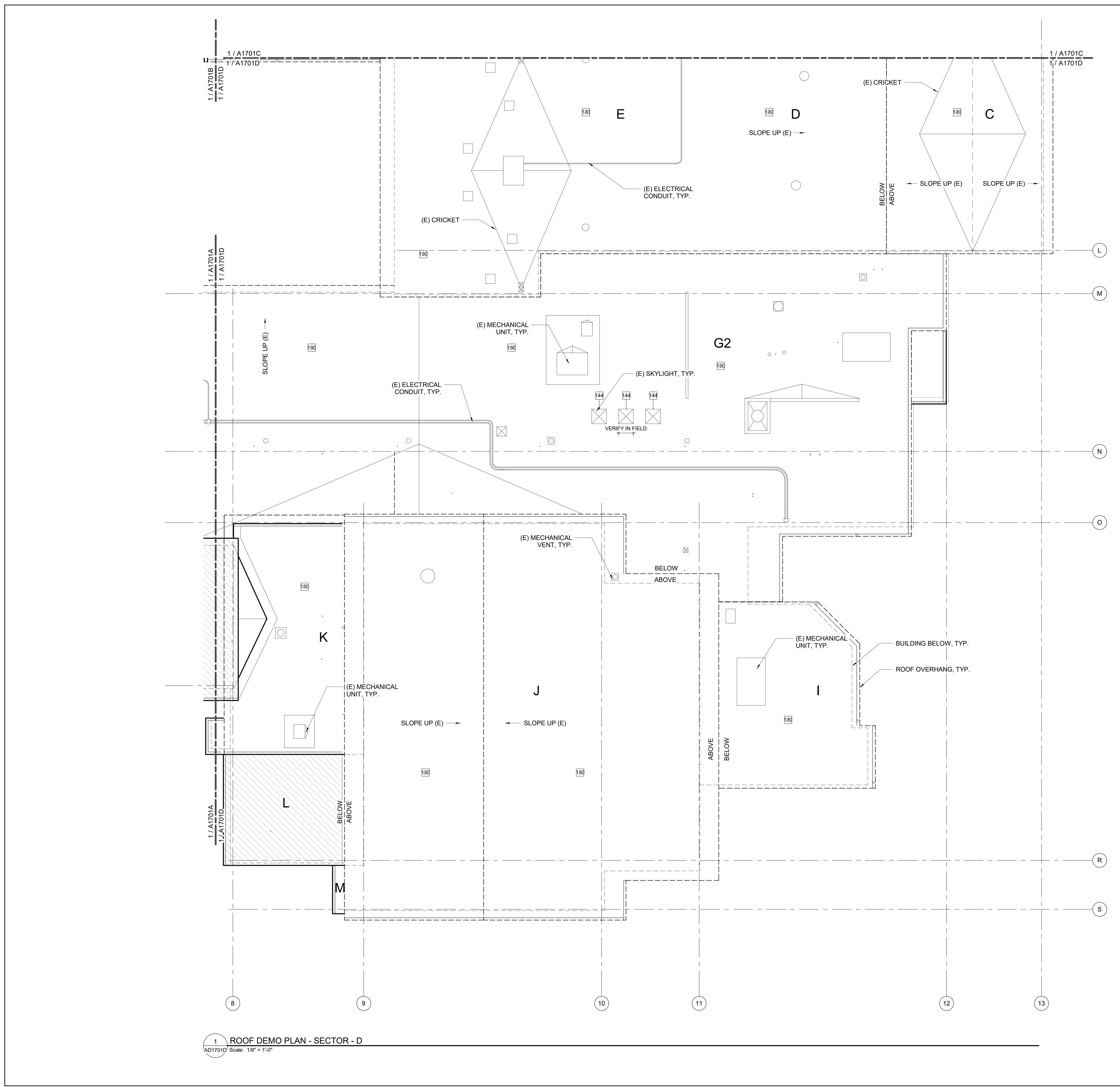
1. EXISTING EXTERIOR WALL FINISHES TO REMAIN INTACT DURING DEMOLITION.

KEYNOTE LEGEND

130 Demolish existing roofing, sheathing, insulation, and associated flashings.







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LEGEND:

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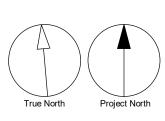
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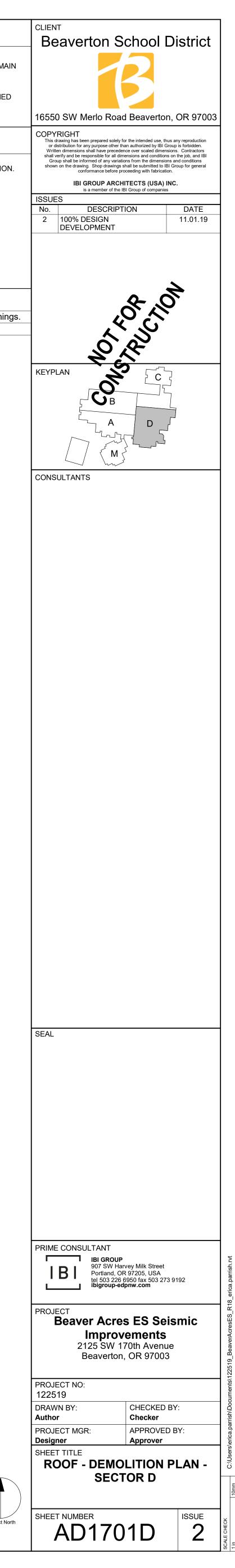
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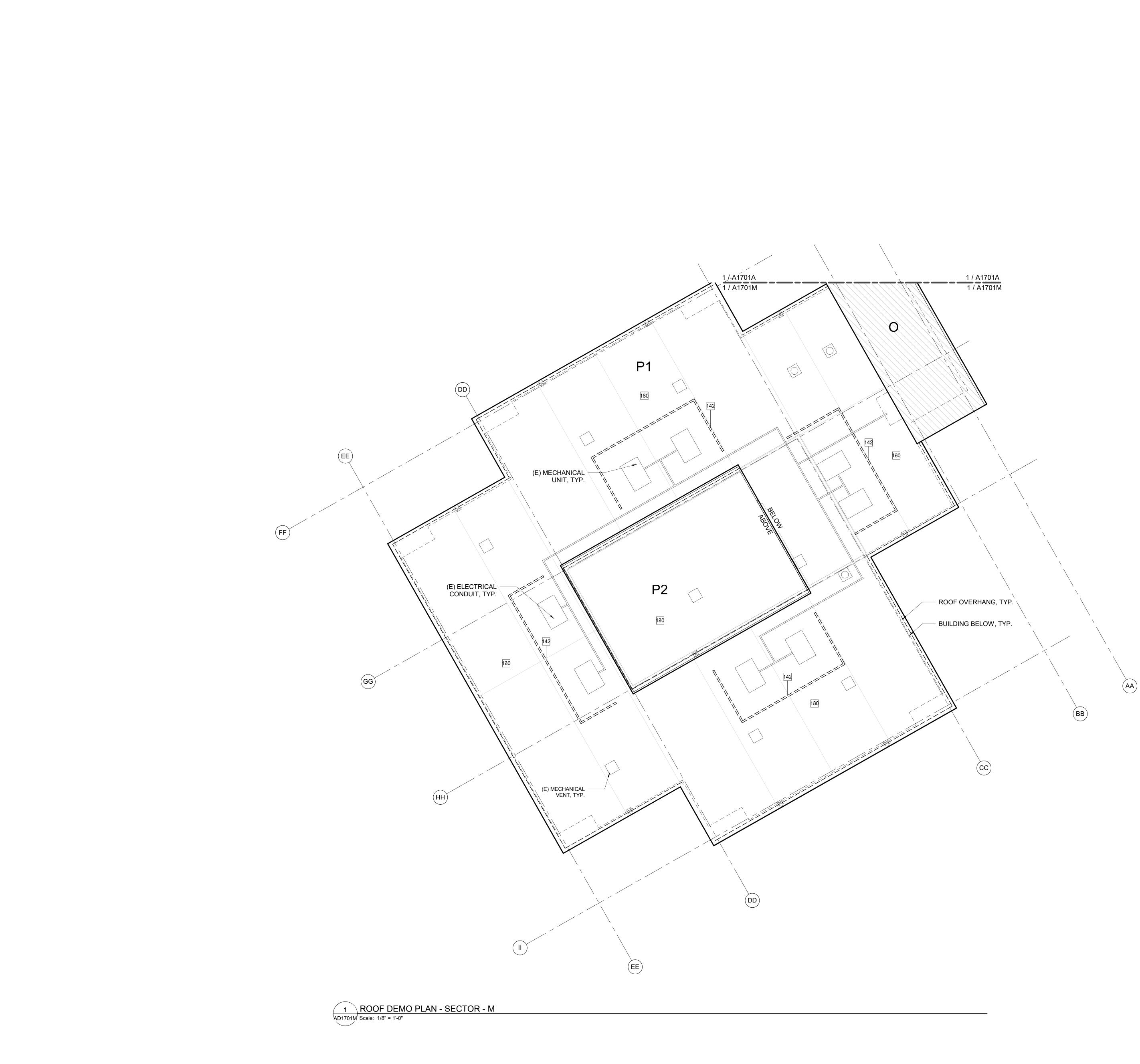
1. EXISTING EXTERIOR WALL FINISHES TO REMAIN INTACT DURING DEMOLITION.

KEYNOTE LEGEND

130 Demolish existing roofing, sheathing, insulation, and associated flashings.144 Demolish existing acrylic skylight.







NOT IN SCOPE

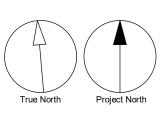
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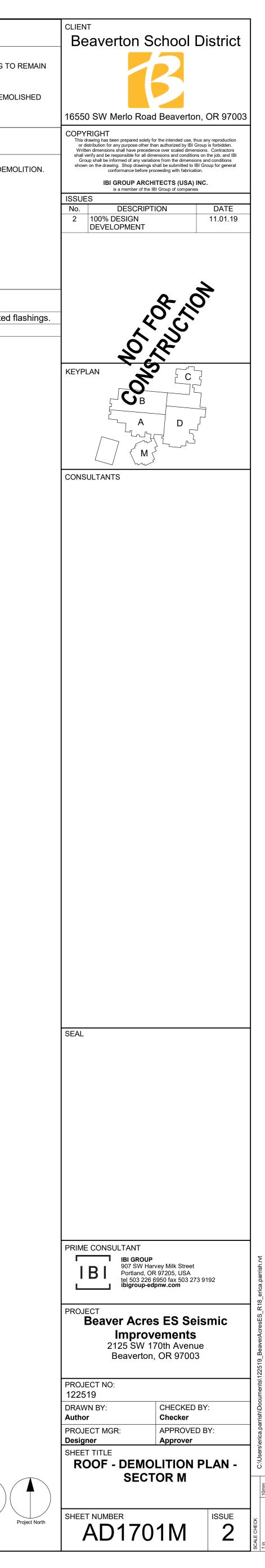
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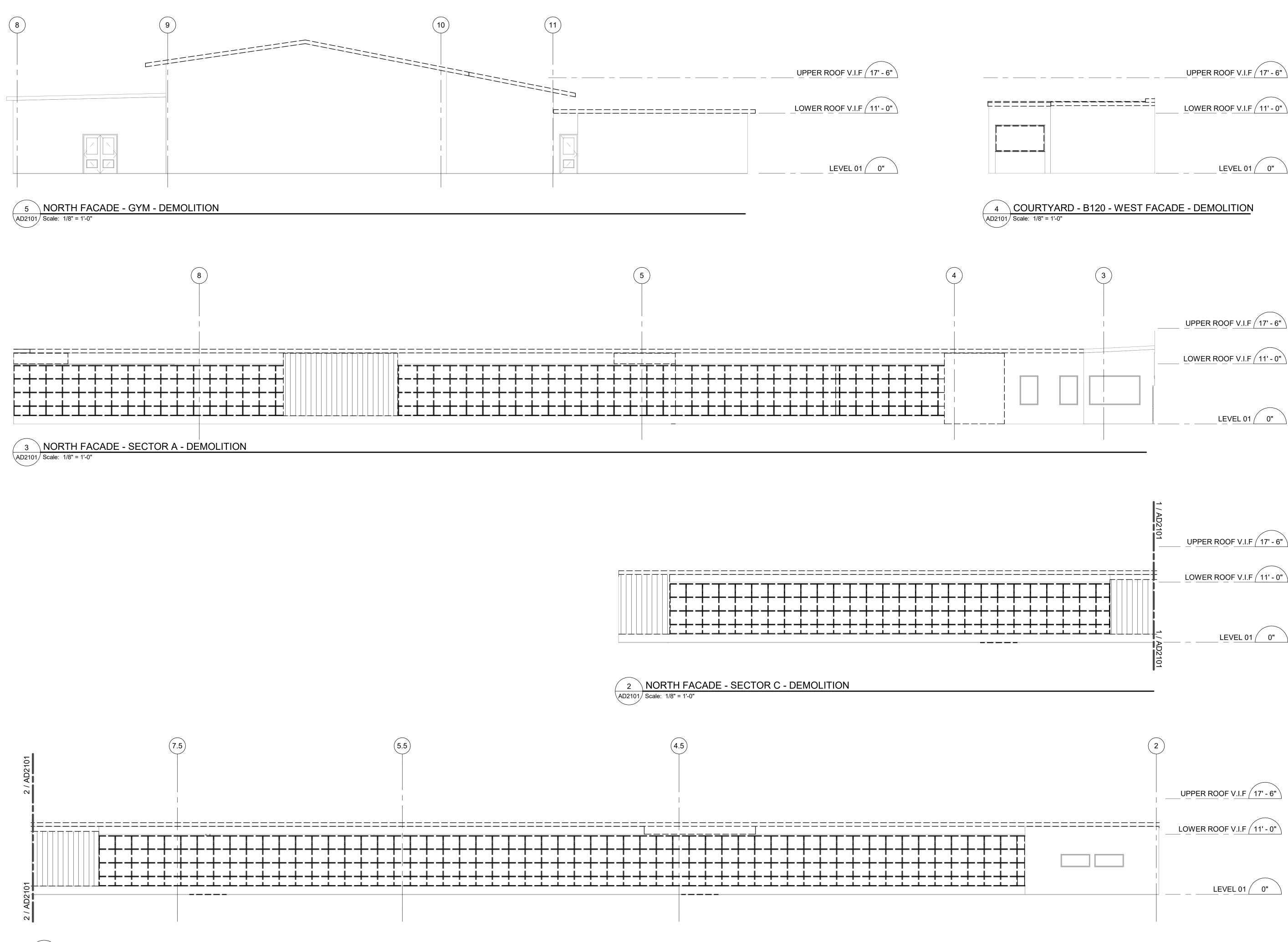
1. EXISTING EXTERIOR WALL FINISHES TO REMAIN INTACT DURING DEMOLITION.

KEYNOTE LEGEND

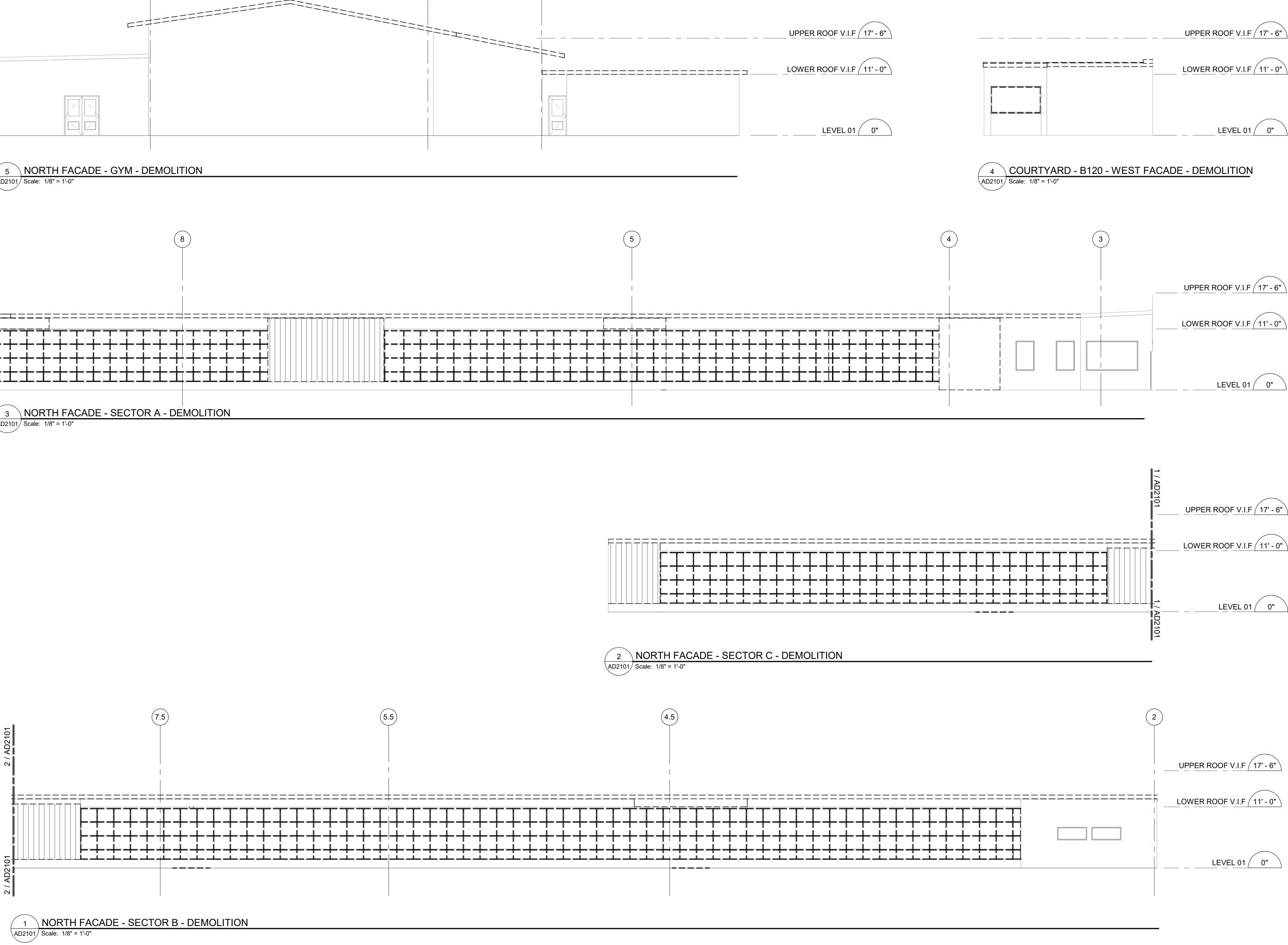
130 Demolish existing roofing, sheathing, insulation, and associated flashings.142 Demolish existing roof screen.

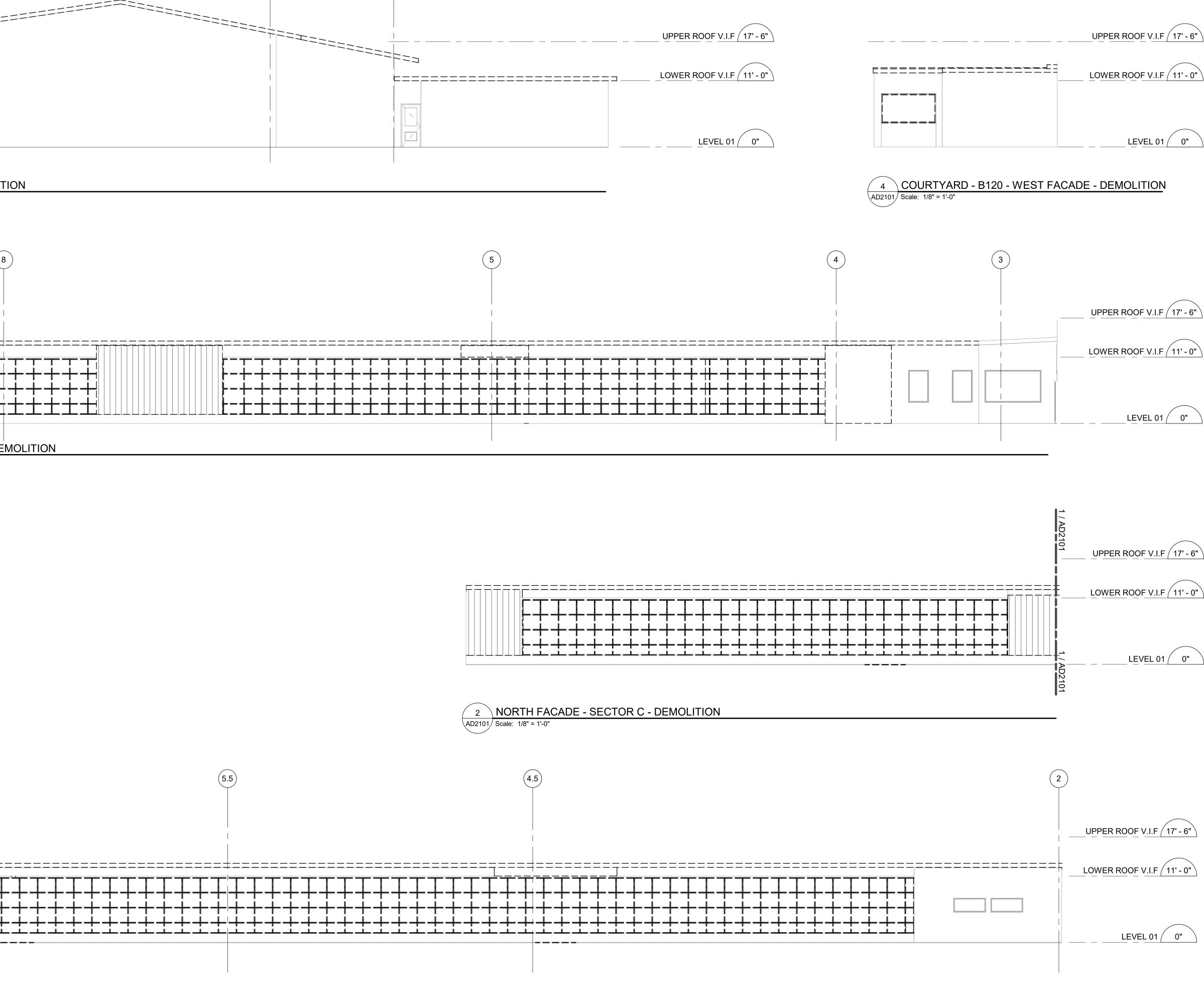


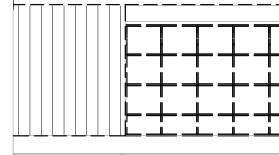


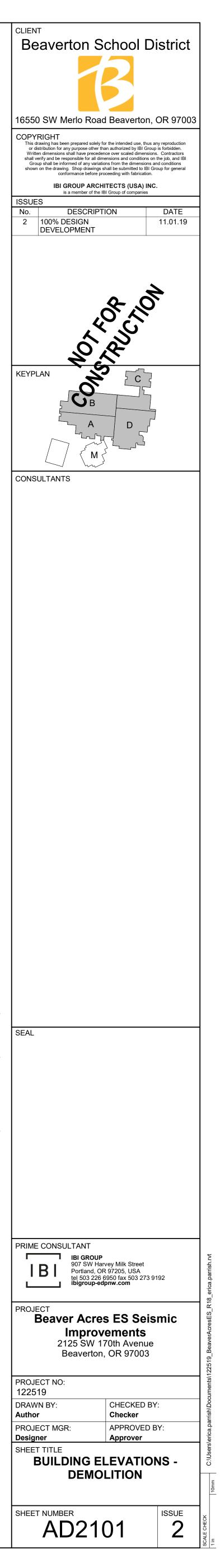


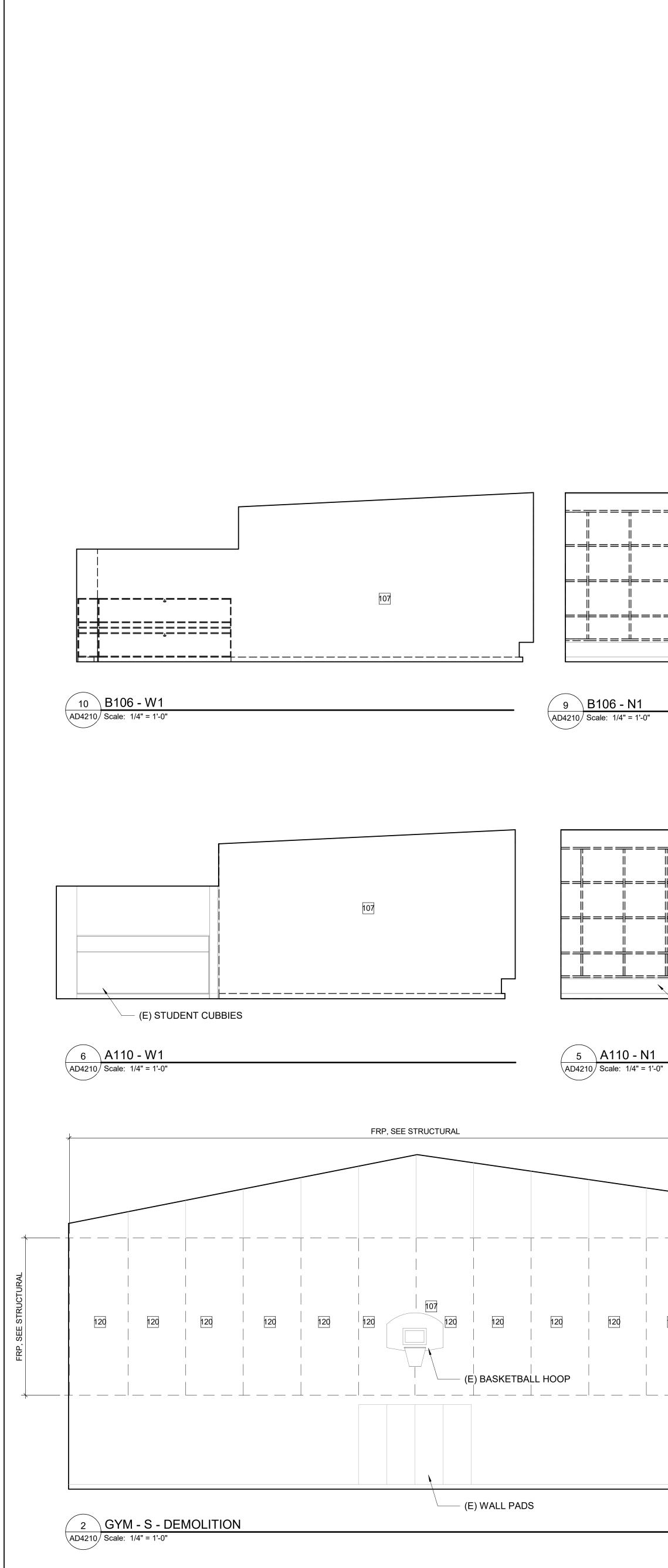
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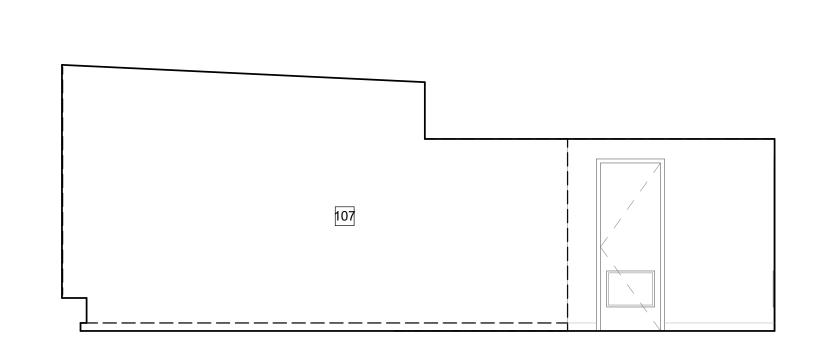


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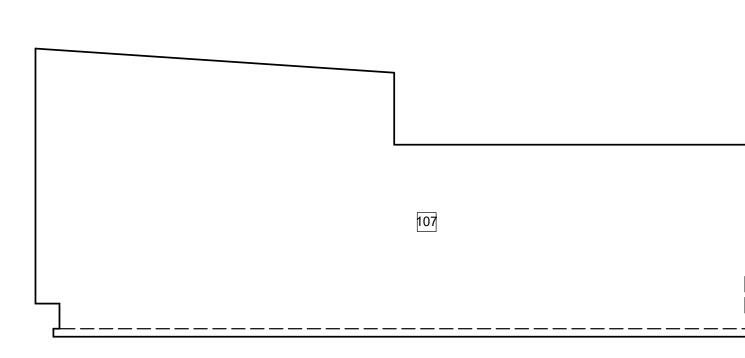
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	1 GYM - E -	- DEMOLITION		
	AD4210 Scale: 1/4" = 1'-	'-0"		
	1 GYM - E - AD4210 Scale: 1/4" = 1'-	- DEMOLITION		

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- (E) RADIATOR, SEE MECHANICAL

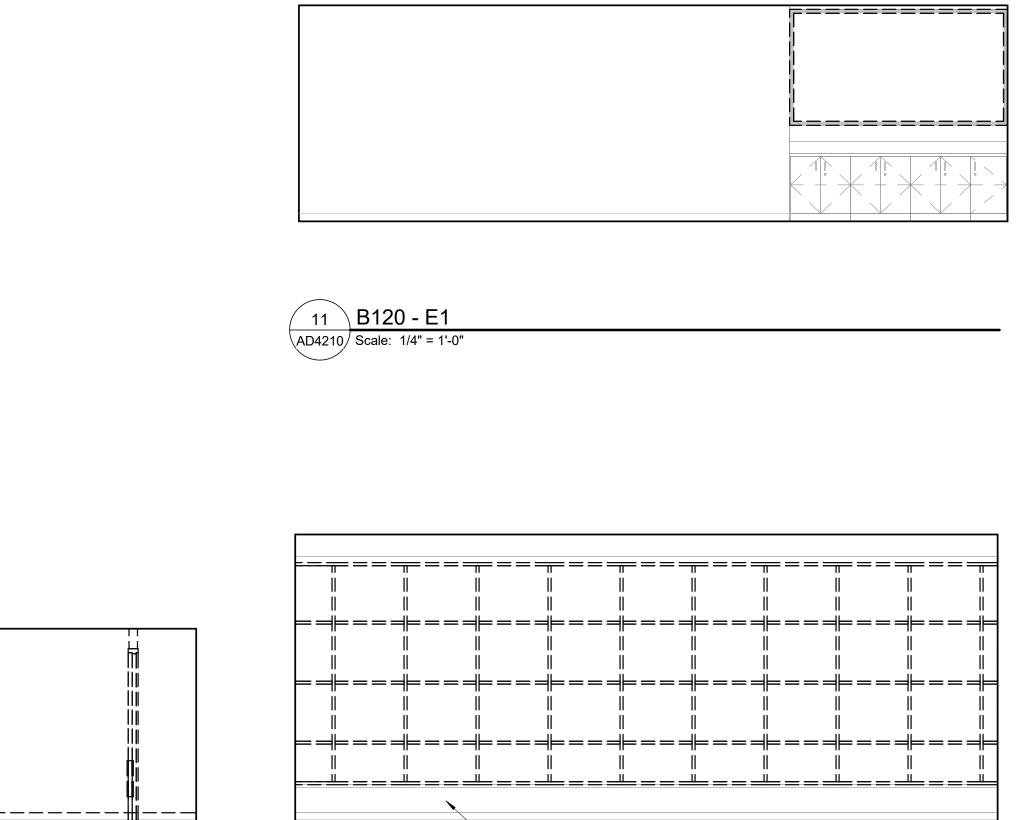


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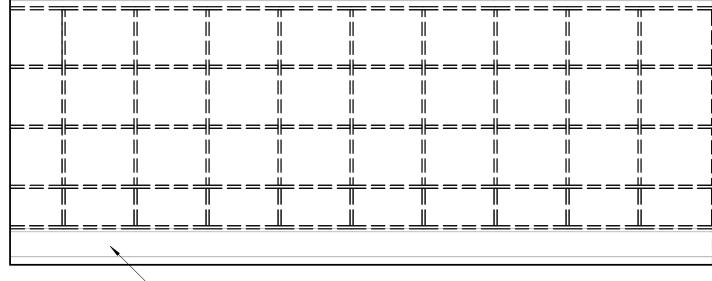


8 B108 - E1 AD4210 Scale: 1/4" = 1'-0"

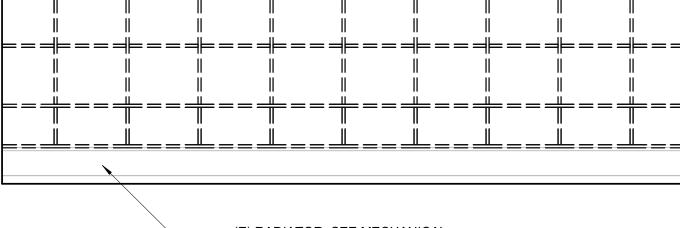
4 A112 - E1 AD4210 Scale: 1/4" = 1'-0"

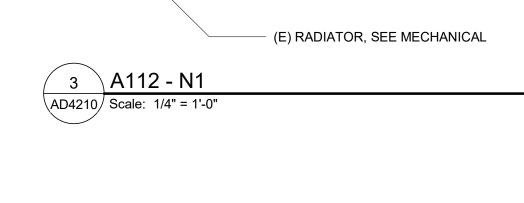


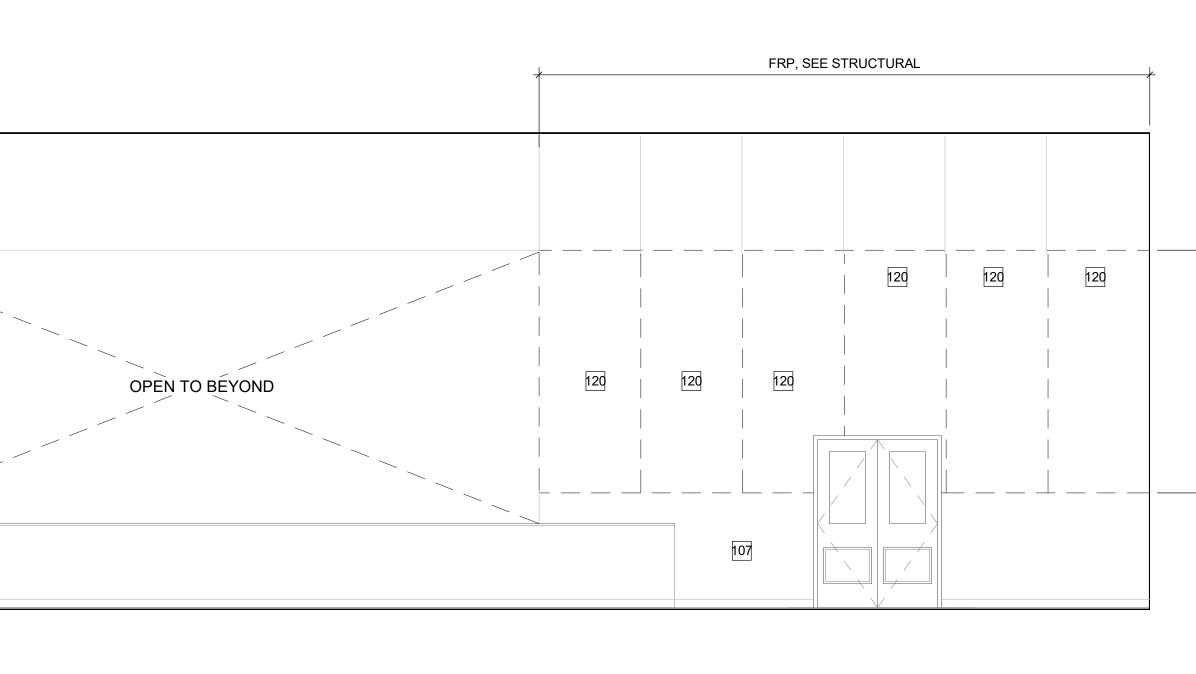
7 B108 - N1 AD4210 Scale: 1/4" = 1'-0"

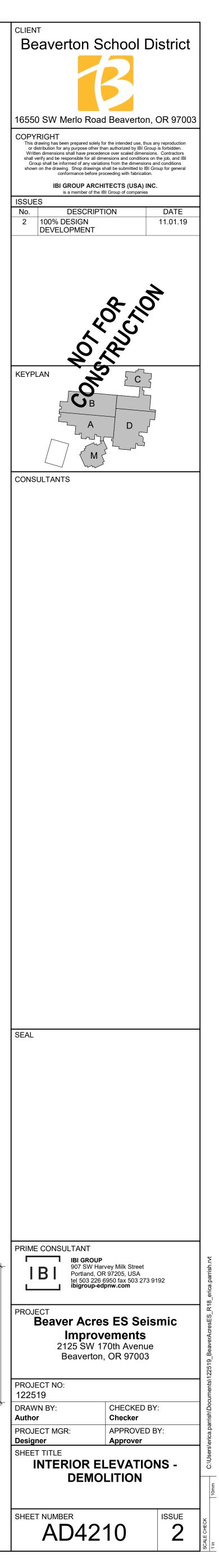


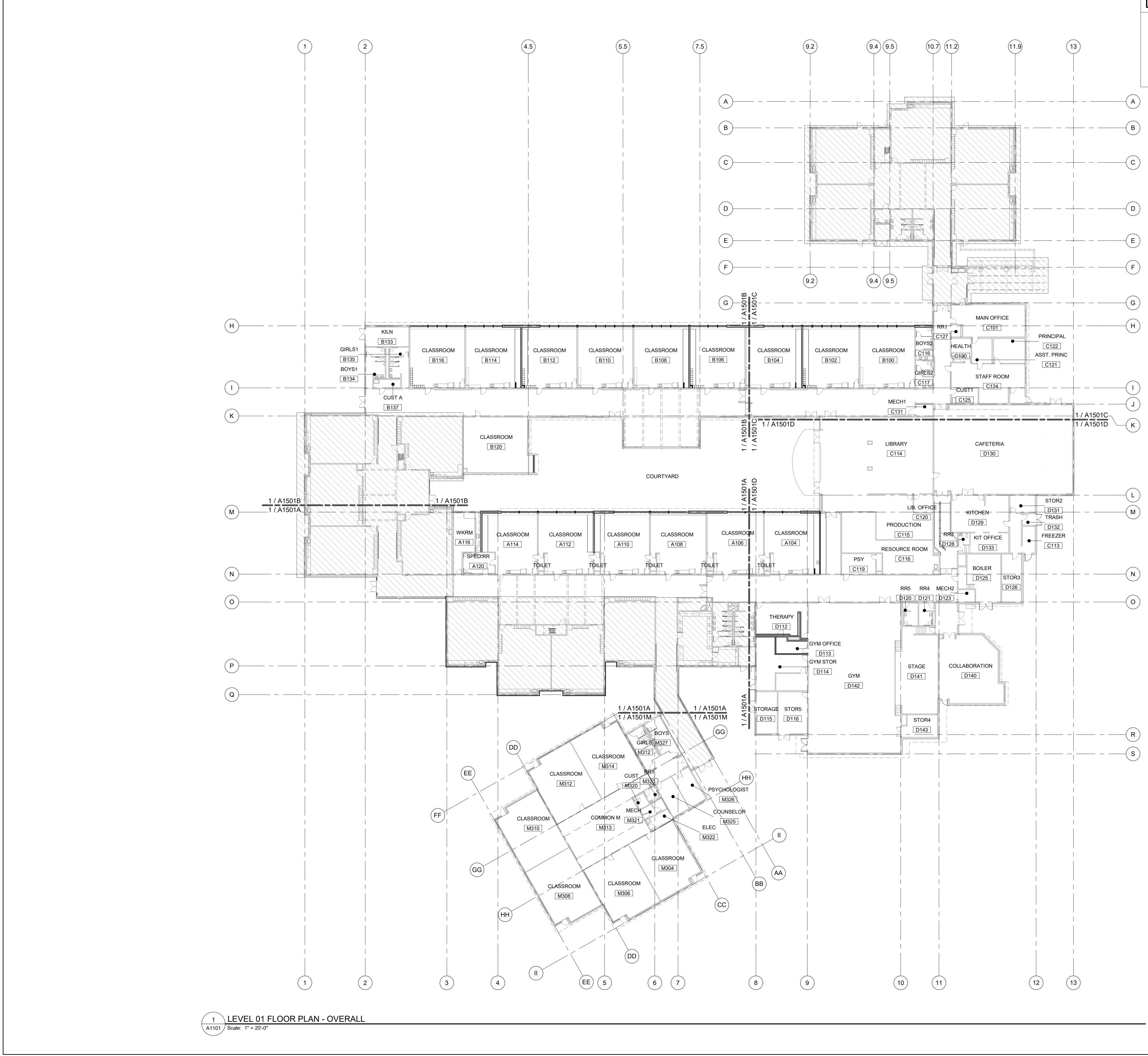
(E) RADIATOR, SEE MECHANICAL







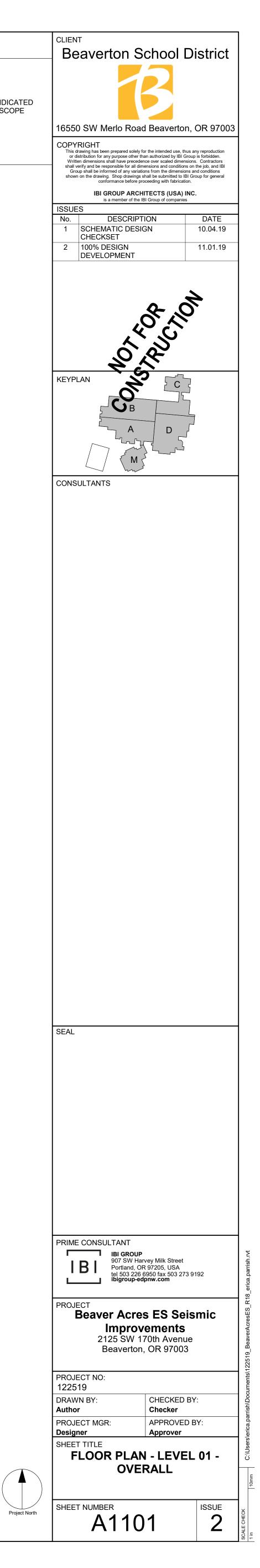




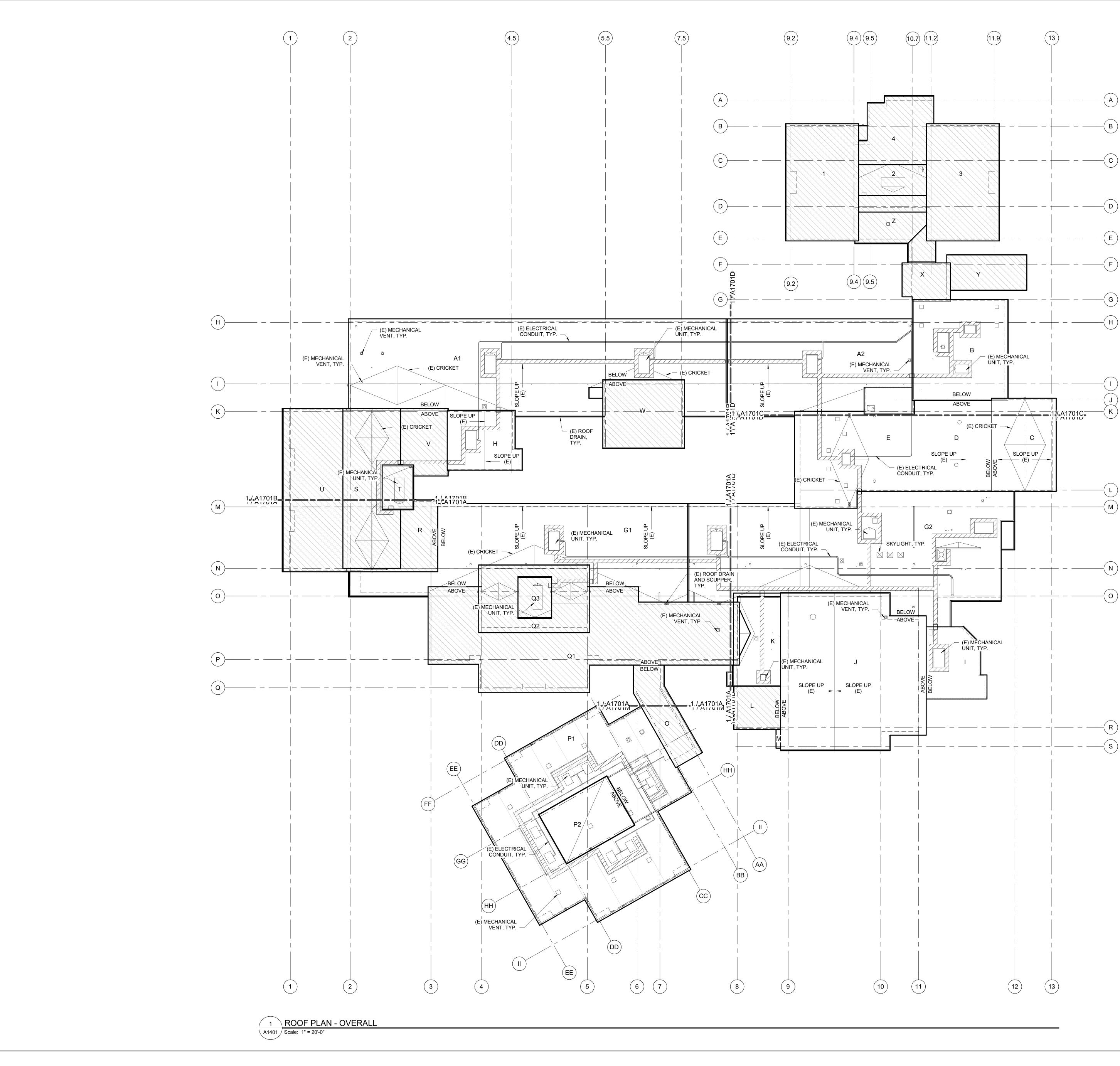
EXISTING TO REMAIN NEW CONSTRUCTION



AREA INDICATED NOT IN SCOPE

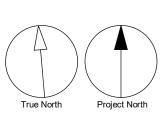


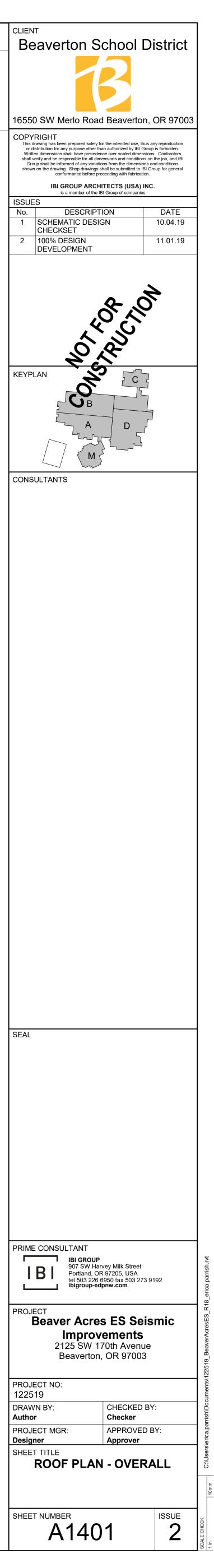
True North

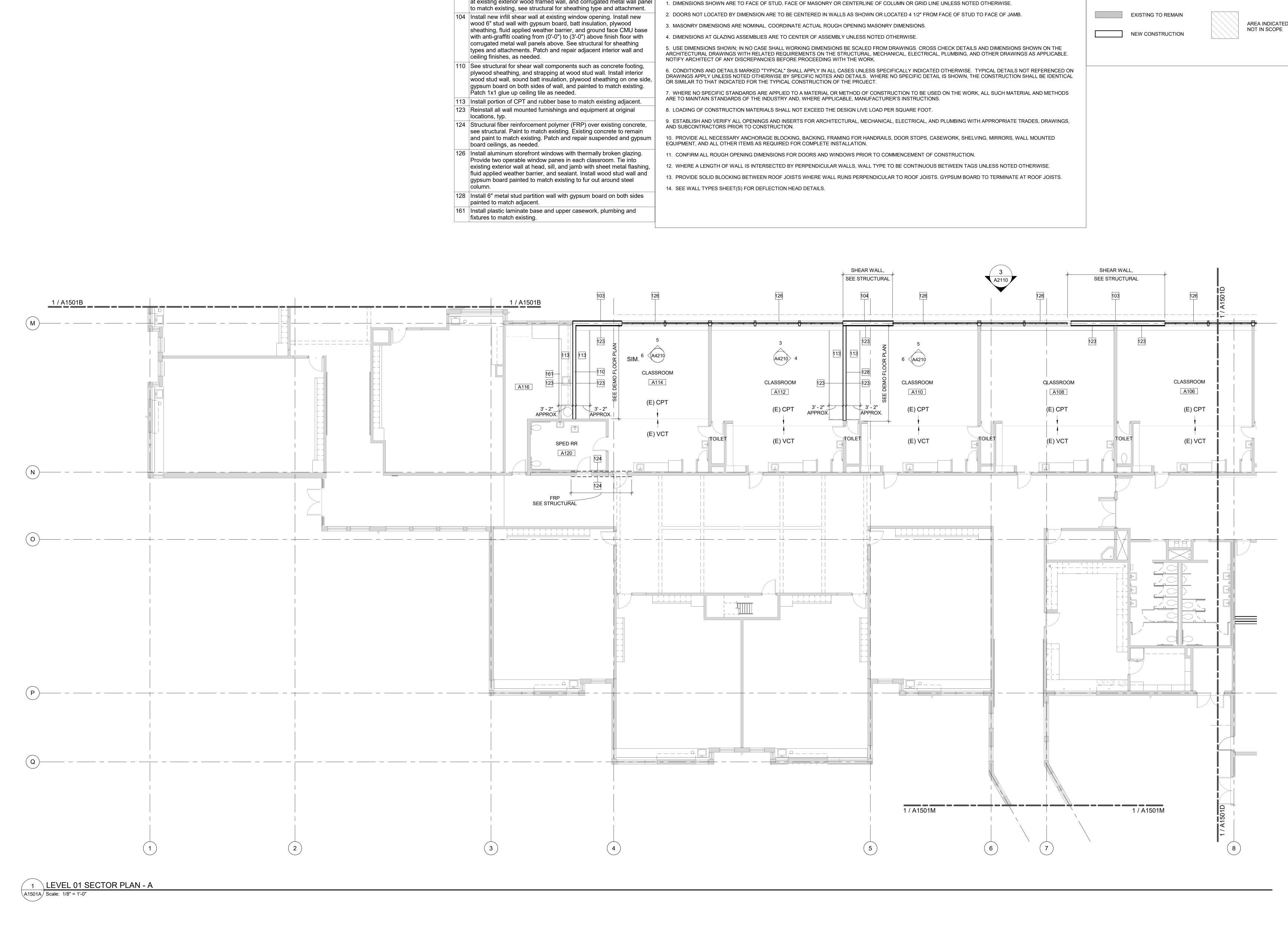


AREA INDICATED NOT IN SCOPE

NEW WALK PAD



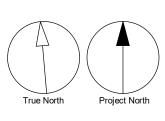


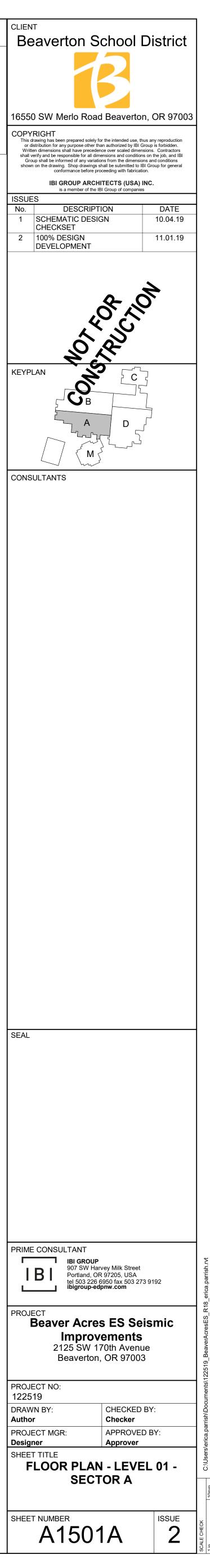


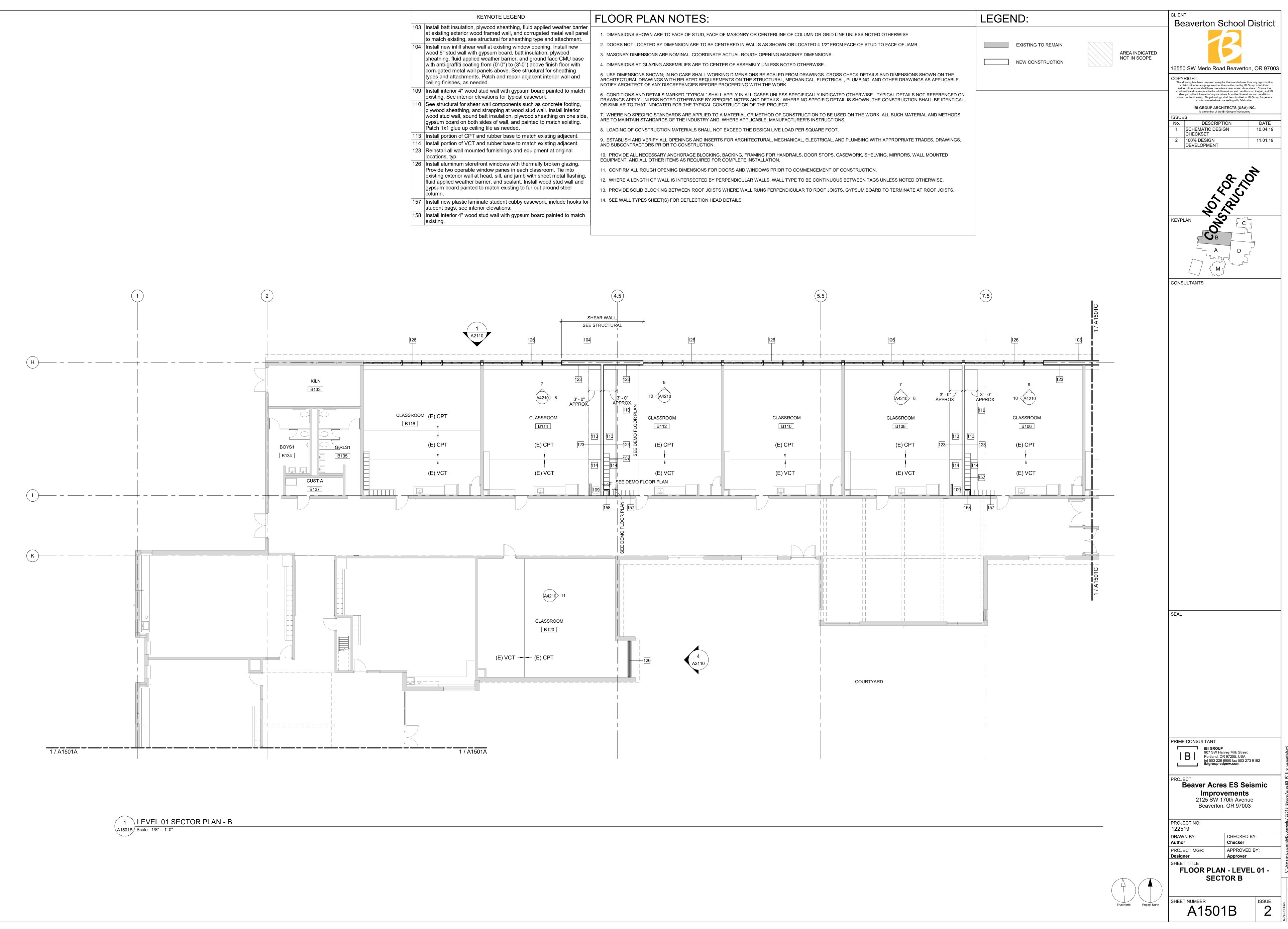
	KEYNOTE LEGEND	FLOOR PLAN NOTES:
103	Install batt insulation, plywood sheathing, fluid applied weather barrier at existing exterior wood framed wall, and corrugated metal wall panel to match existing, see structural for sheathing type and attachment.	1. DIMENSIONS SHOWN ARE TO FACE OF STUD, FACE OF MASONRY
104	Install new infill shear wall at existing window opening. Install new wood 6" stud wall with gypsum board, batt insulation, plywood sheathing, fluid applied weather barrier, and ground face CMU base with anti-graffiti coating from (0'-0") to (3'-0") above finish floor with corrugated metal wall panels above. See structural for sheathing types and attachments. Patch and repair adjacent interior wall and ceiling finishes, as needed.	 DOORS NOT LOCATED BY DIMENSION ARE TO BE CENTERED IN V MASONRY DIMENSIONS ARE NOMINAL. COORDINATE ACTUAL RO DIMENSIONS AT GLAZING ASSEMBLIES ARE TO CENTER OF ASSE USE DIMENSIONS SHOWN; IN NO CASE SHALL WORKING DIMENSI ARCHITECTURAL DRAWINGS WITH RELATED REQUIREMENTS ON TH NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE PROCEEDING
110	See structural for shear wall components such as concrete footing, plywood sheathing, and strapping at wood stud wall. Install interior wood stud wall, sound batt insulation, plywood sheathing on one side, gypsum board on both sides of wall, and painted to match existing. Patch 1x1 glue up ceiling tile as needed.	 CONDITIONS AND DETAILS MARKED "TYPICAL" SHALL APPLY IN A DRAWINGS APPLY UNLESS NOTED OTHERWISE BY SPECIFIC NOTES OR SIMILAR TO THAT INDICATED FOR THE TYPICAL CONSTRUCTION WHERE NO SPECIFIC STANDARDS ARE APPLIED TO A MATERIAL (
113	Install portion of CPT and rubber base to match existing adjacent.	ARE TO MAINTAIN STANDARDS OF THE INDUSTRY AND, WHERE APP
123	Reinstall all wall mounted furnishings and equipment at original locations, typ.	8. LOADING OF CONSTRUCTION MATERIALS SHALL NOT EXCEED TH
124	Structural fiber reinforcement polymer (FRP) over existing concrete, see structural. Paint to match existing. Existing concrete to remain and paint to match existing. Patch and repair suspended and gypsum board ceilings, as needed.	 9. ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR ARCHI AND SUBCONTRACTORS PRIOR TO CONSTRUCTION. 10. PROVIDE ALL NECESSARY ANCHORAGE BLOCKING, BACKING, FI EQUIPMENT, AND ALL OTHER ITEMS AS REQUIRED FOR COMPLETE I
126	Install aluminum storefront windows with thermally broken glazing. Provide two operable window panes in each classroom. Tie into existing exterior wall at head, sill, and jamb with sheet metal flashing, fluid applied weather barrier, and sealant. Install wood stud wall and gypsum board painted to match existing to fur out around steel column.	 CONFIRM ALL ROUGH OPENING DIMENSIONS FOR DOORS AND V WHERE A LENGTH OF WALL IS INTERSECTED BY PERPENDICULA PROVIDE SOLID BLOCKING BETWEEN ROOF JOISTS WHERE WAI SEE WALL TYPES SHEET(S) FOR DEFLECTION HEAD DETAILS.
128	Install 6" metal stud partition wall with gypsum board on both sides painted to match adjacent.	
161	Install plastic laminate base and upper casework, plumbing and	

LEGEND:	
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AREA INDICATED

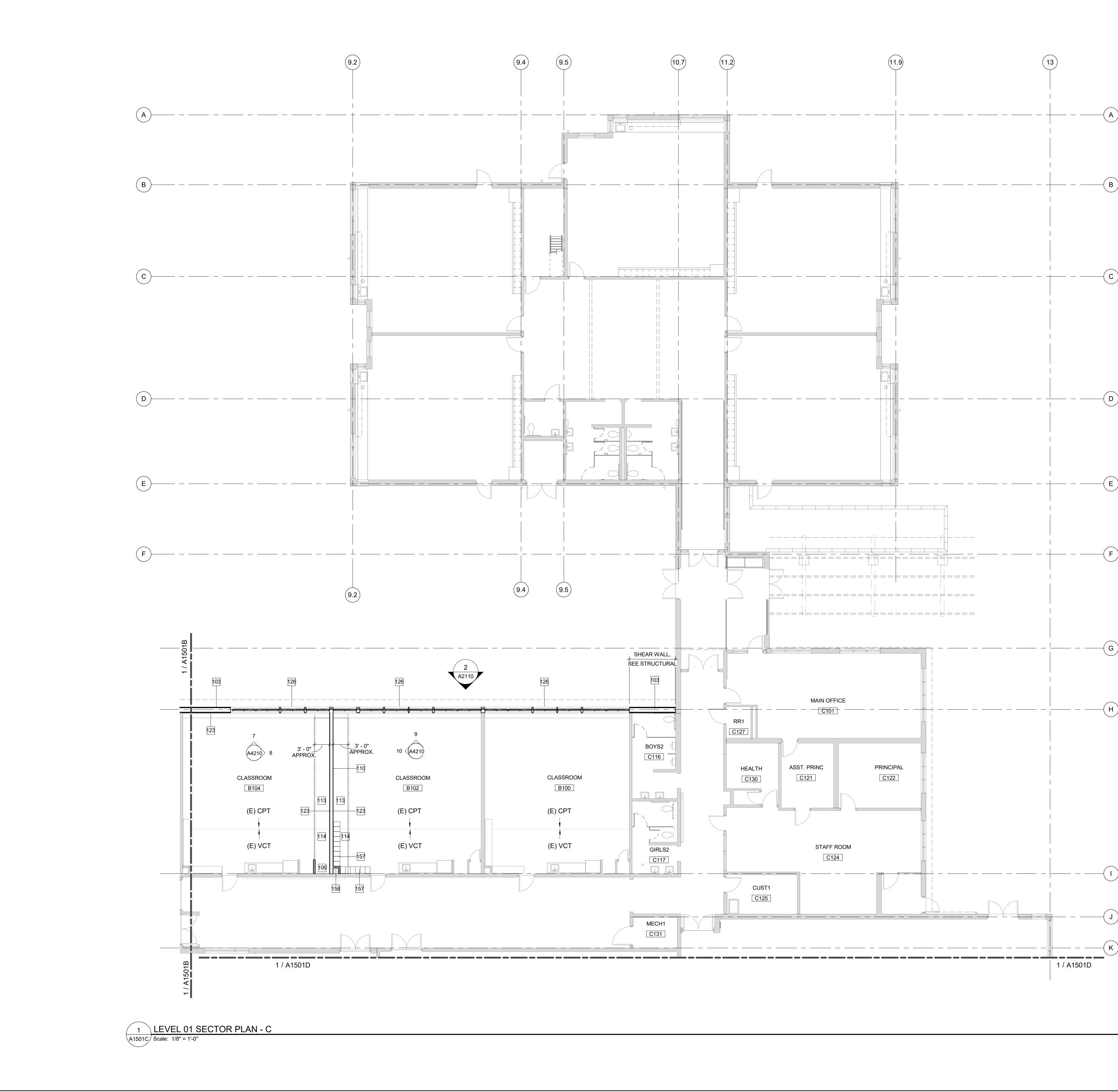


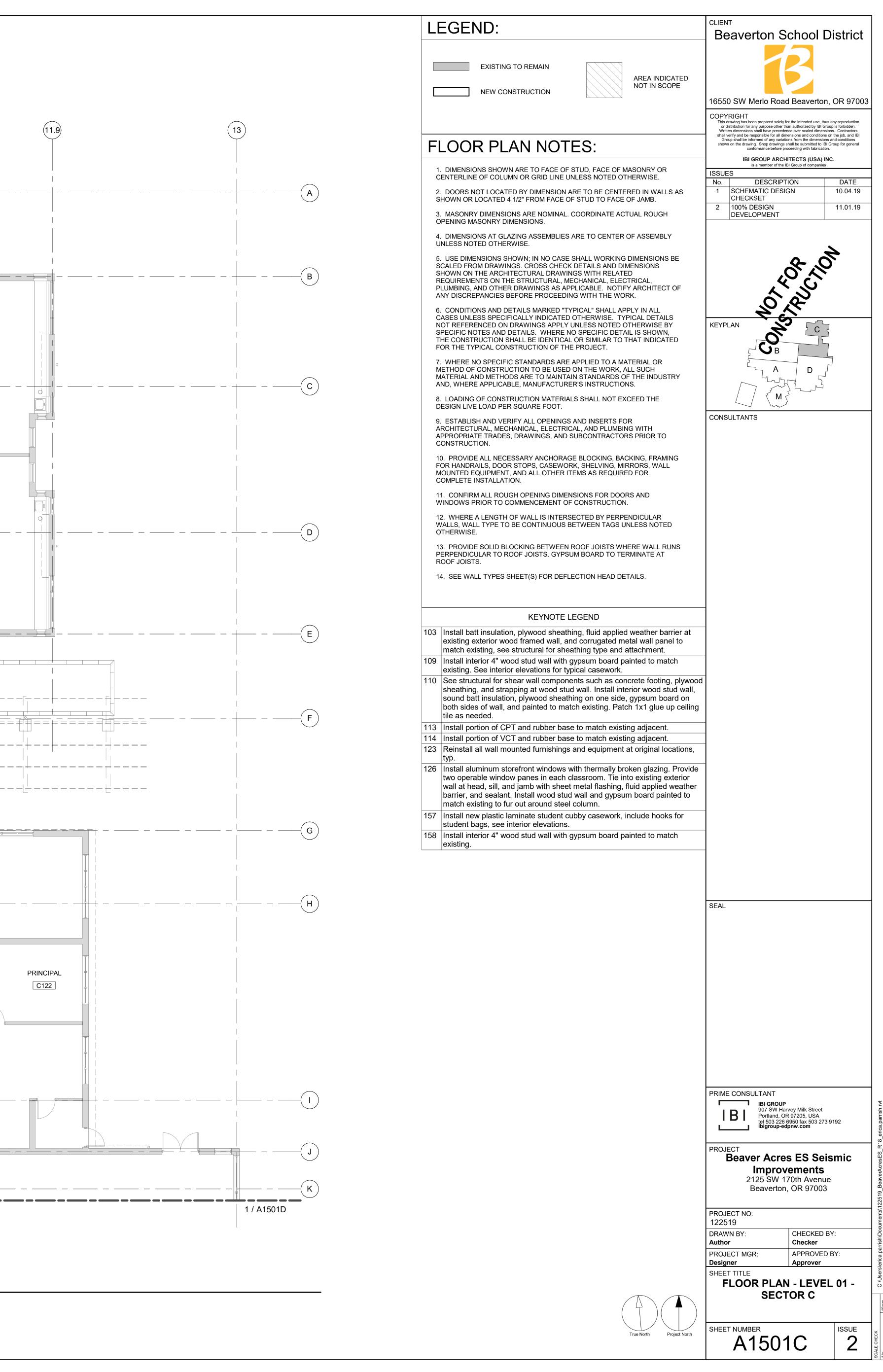


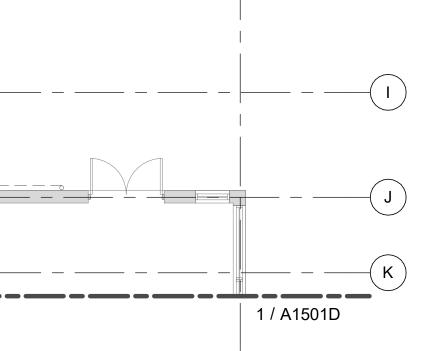


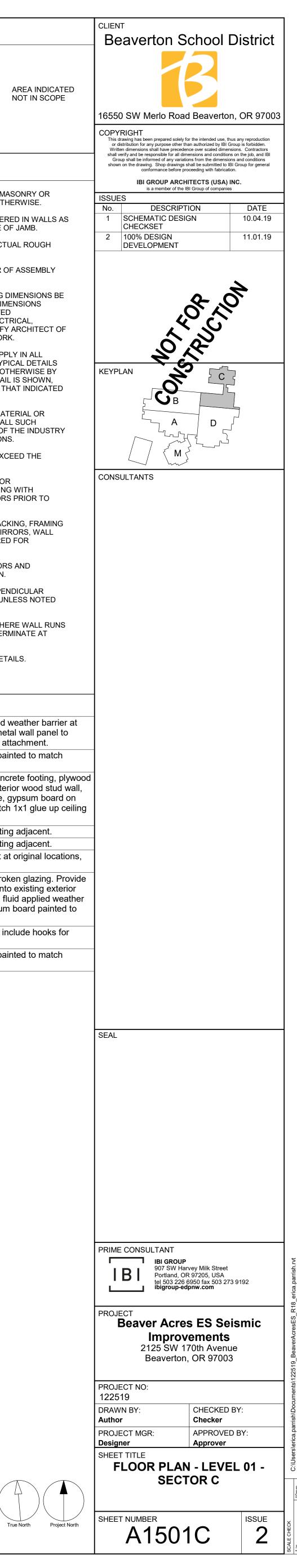
	KEYNOTE LEGEND	FLOOR PLAN NOTES:
103	Install batt insulation, plywood sheathing, fluid applied weather barrier at existing exterior wood framed wall, and corrugated metal wall panel to match existing, see structural for sheathing type and attachment.	1. DIMENSIONS SHOWN ARE TO FACE OF STUD, FACE OF MASONRY
104	Install new infill shear wall at existing window opening. Install new wood 6" stud wall with gypsum board, batt insulation, plywood sheathing, fluid applied weather barrier, and ground face CMU base with anti-graffiti coating from (0'-0") to (3'-0") above finish floor with corrugated metal wall panels above. See structural for sheathing types and attachments. Patch and repair adjacent interior wall and ceiling finishes, as needed.	 DOORS NOT LOCATED BY DIMENSION ARE TO BE CENTERED IN W MASONRY DIMENSIONS ARE NOMINAL. COORDINATE ACTUAL ROU DIMENSIONS AT GLAZING ASSEMBLIES ARE TO CENTER OF ASSEI USE DIMENSIONS SHOWN; IN NO CASE SHALL WORKING DIMENSI ARCHITECTURAL DRAWINGS WITH RELATED REQUIREMENTS ON TH NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE PROCEEDING
109	Install interior 4" wood stud wall with gypsum board painted to match existing. See interior elevations for typical casework.	6. CONDITIONS AND DETAILS MARKED "TYPICAL" SHALL APPLY IN AL DRAWINGS APPLY UNLESS NOTED OTHERWISE BY SPECIFIC NOTES
110	See structural for shear wall components such as concrete footing, plywood sheathing, and strapping at wood stud wall. Install interior wood stud wall, sound batt insulation, plywood sheathing on one side, gypsum board on both sides of wall, and painted to match existing. Patch 1x1 glue up ceiling tile as needed.	 OR SIMILAR TO THAT INDICATED FOR THE TYPICAL CONSTRUCTION 7. WHERE NO SPECIFIC STANDARDS ARE APPLIED TO A MATERIAL OF ARE TO MAINTAIN STANDARDS OF THE INDUSTRY AND, WHERE APPLIED ARE LOADING OF CONSTRUCTION MATERIALS SHALL NOT EXCEED THE
113	Install portion of CPT and rubber base to match existing adjacent.	
114	Install portion of VCT and rubber base to match existing adjacent.	 ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR ARCHI AND SUBCONTRACTORS PRIOR TO CONSTRUCTION.
123	Reinstall all wall mounted furnishings and equipment at original locations, typ.	10. PROVIDE ALL NECESSARY ANCHORAGE BLOCKING, BACKING, FF EQUIPMENT, AND ALL OTHER ITEMS AS REQUIRED FOR COMPLETE I
126	Install aluminum storefront windows with thermally broken glazing. Provide two operable window panes in each classroom. Tie into existing exterior wall at head, sill, and jamb with sheet metal flashing, fluid applied weather barrier, and sealant. Install wood stud wall and gypsum board painted to match existing to fur out around steel column.	11. CONFIRM ALL ROUGH OPENING DIMENSIONS FOR DOORS AND V 12. WHERE A LENGTH OF WALL IS INTERSECTED BY PERPENDICULA 13. PROVIDE SOLID BLOCKING BETWEEN ROOF JOISTS WHERE WAL
157	Install new plastic laminate student cubby casework, include hooks for student bags, see interior elevations.	14. SEE WALL TYPES SHEET(S) FOR DEFLECTION HEAD DETAILS.
158	Install interior 4" wood stud wall with avosum board painted to match	

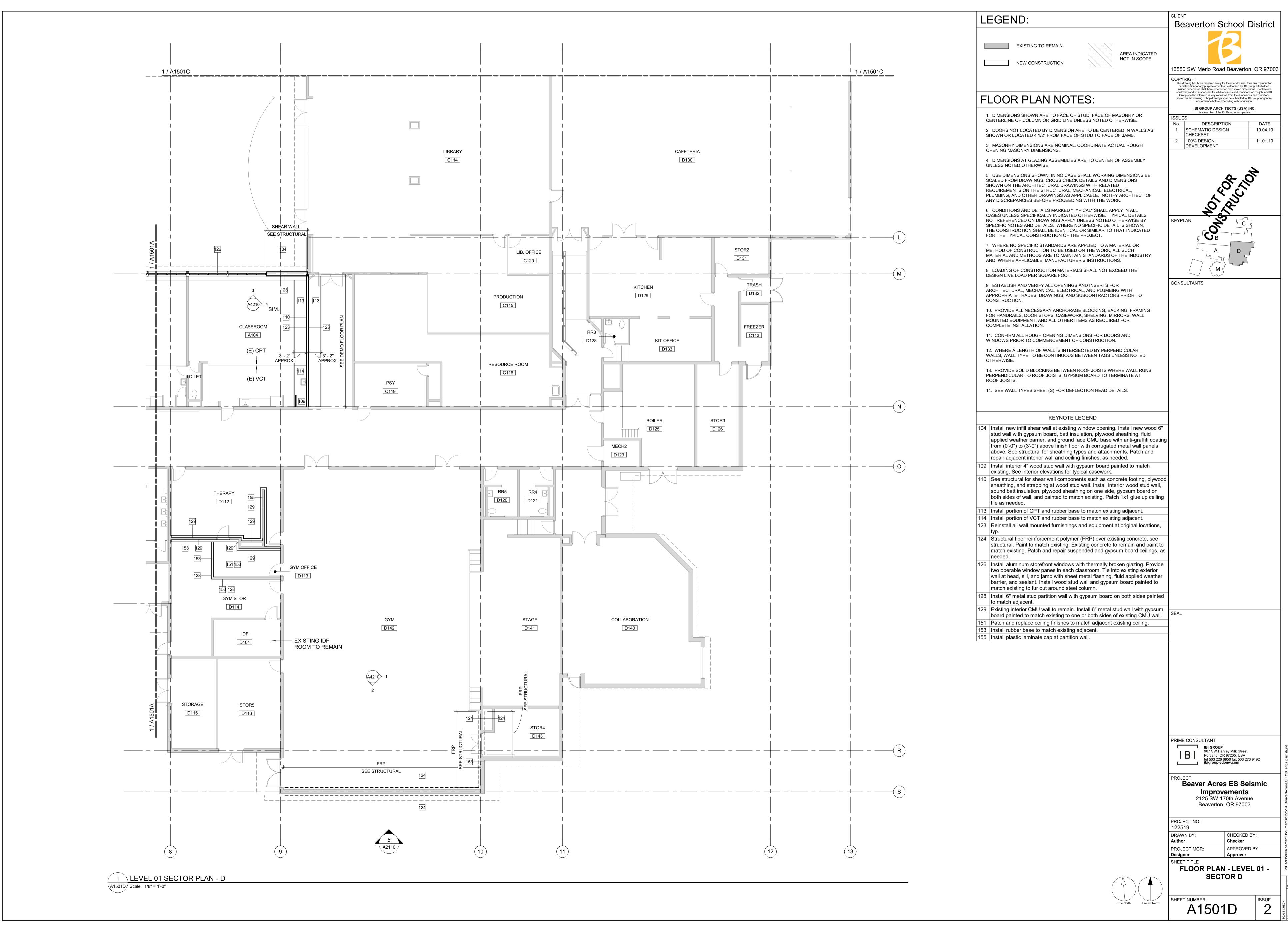
LEGEND:	
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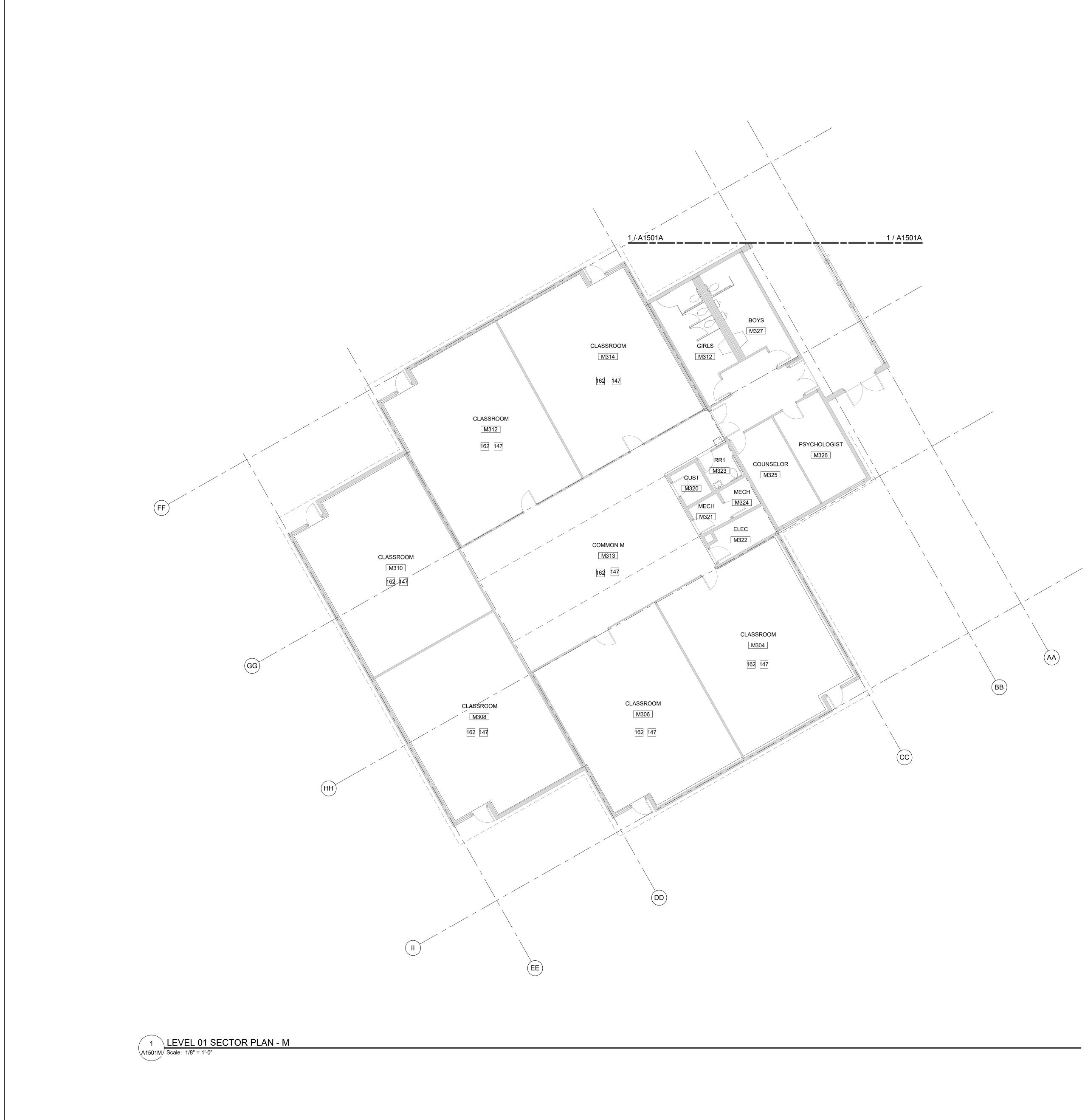












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LEGEND:

EXISTING TO REMAIN

NEW CONSTRUCTION



AREA INDICATED NOT IN SCOPE

FLOOR PLAN NOTES:

1. DIMENSIONS SHOWN ARE TO FACE OF STUD, FACE OF MASONRY OR CENTERLINE OF COLUMN OR GRID LINE UNLESS NOTED OTHERWISE.

2. DOORS NOT LOCATED BY DIMENSION ARE TO BE CENTERED IN WALLS AS SHOWN OR LOCATED 4 1/2" FROM FACE OF STUD TO FACE OF JAMB.

3. MASONRY DIMENSIONS ARE NOMINAL. COORDINATE ACTUAL ROUGH OPENING MASONRY DIMENSIONS.

4. DIMENSIONS AT GLAZING ASSEMBLIES ARE TO CENTER OF ASSEMBLY UNLESS NOTED OTHERWISE.5. USE DIMENSIONS SHOWN; IN NO CASE SHALL WORKING DIMENSIONS BE

SCALED FROM DRAWINGS. CROSS CHECK DETAILS AND DIMENSIONS SHOWN ON THE ARCHITECTURAL DRAWINGS WITH RELATED REQUIREMENTS ON THE STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND OTHER DRAWINGS AS APPLICABLE. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

6. CONDITIONS AND DETAILS MARKED "TYPICAL" SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY INDICATED OTHERWISE. TYPICAL DETAILS NOT REFERENCED ON DRAWINGS APPLY UNLESS NOTED OTHERWISE BY SPECIFIC NOTES AND DETAILS. WHERE NO SPECIFIC DETAIL IS SHOWN, THE CONSTRUCTION SHALL BE IDENTICAL OR SIMILAR TO THAT INDICATED FOR THE TYPICAL CONSTRUCTION OF THE PROJECT.

7. WHERE NO SPECIFIC STANDARDS ARE APPLIED TO A MATERIAL OR METHOD OF CONSTRUCTION TO BE USED ON THE WORK, ALL SUCH MATERIAL AND METHODS ARE TO MAINTAIN STANDARDS OF THE INDUSTRY AND, WHERE APPLICABLE, MANUFACTURER'S INSTRUCTIONS.

8. LOADING OF CONSTRUCTION MATERIALS SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT.

9. ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING WITH APPROPRIATE TRADES, DRAWINGS, AND SUBCONTRACTORS PRIOR TO CONSTRUCTION.

10. PROVIDE ALL NECESSARY ANCHORAGE BLOCKING, BACKING, FRAMING FOR HANDRAILS, DOOR STOPS, CASEWORK, SHELVING, MIRRORS, WALL MOUNTED EQUIPMENT, AND ALL OTHER ITEMS AS REQUIRED FOR COMPLETE INSTALLATION.

11. CONFIRM ALL ROUGH OPENING DIMENSIONS FOR DOORS AND WINDOWS PRIOR TO COMMENCEMENT OF CONSTRUCTION.

12. WHERE A LENGTH OF WALL IS INTERSECTED BY PERPENDICULAR WALLS, WALL TYPE TO BE CONTINUOUS BETWEEN TAGS UNLESS NOTED OTHERWISE.

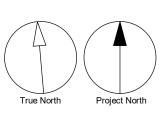
13. PROVIDE SOLID BLOCKING BETWEEN ROOF JOISTS WHERE WALL RUNS PERPENDICULAR TO ROOF JOISTS. GYPSUM BOARD TO TERMINATE AT ROOF JOISTS.

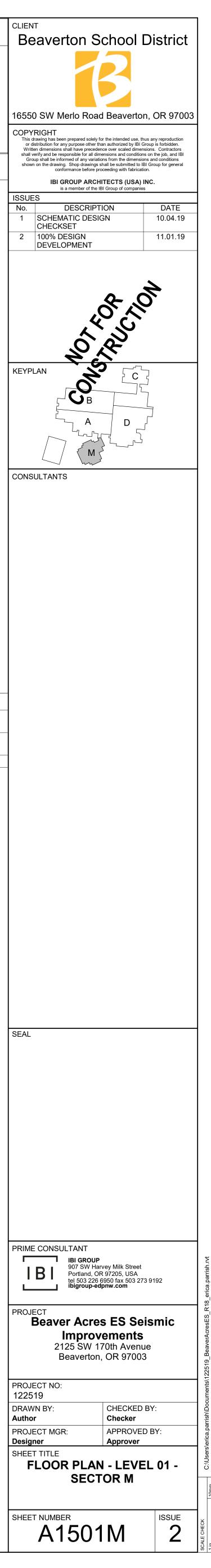
14. SEE WALL TYPES SHEET(S) FOR DEFLECTION HEAD DETAILS.

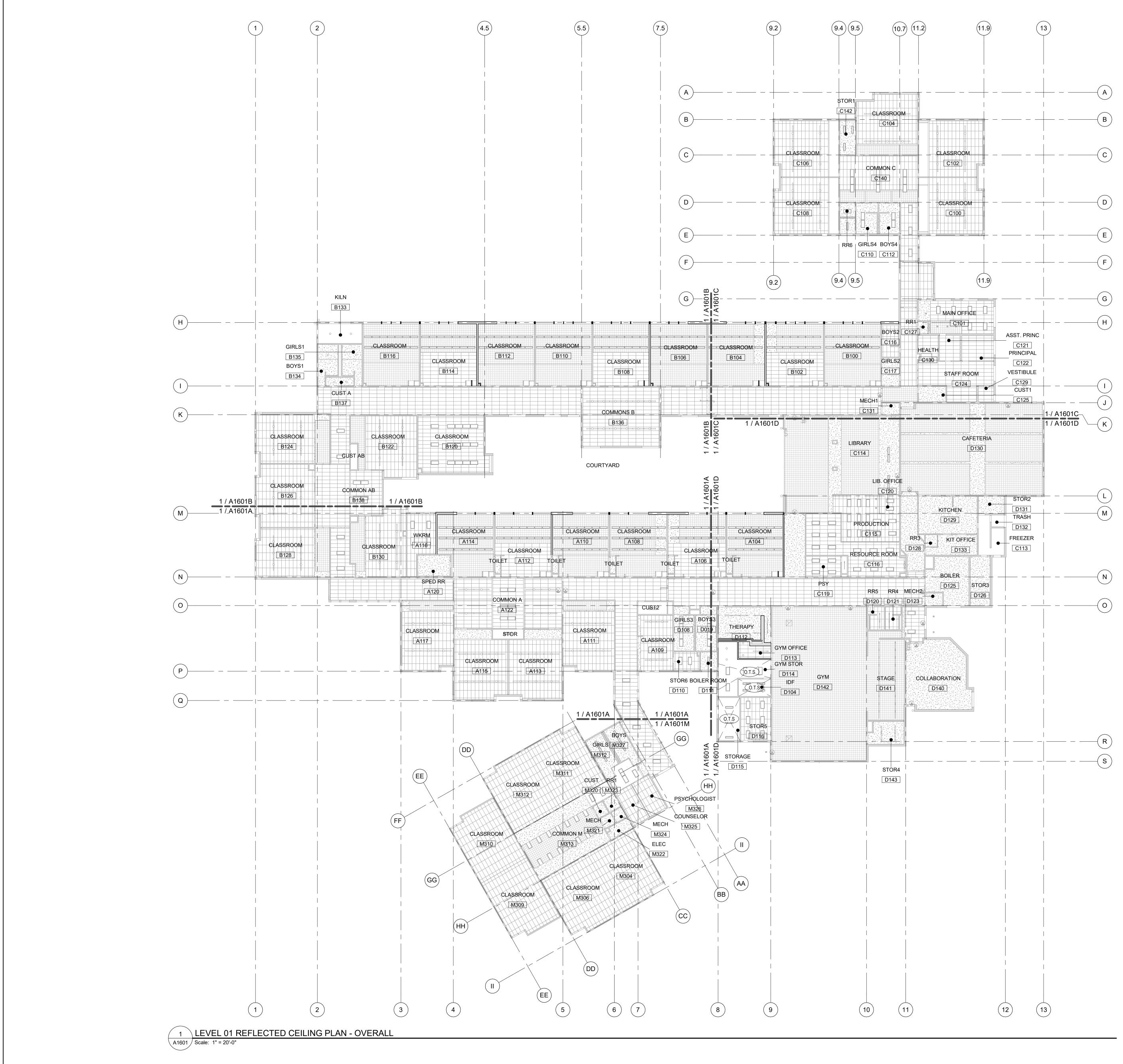
KEYNOTE LEGEND

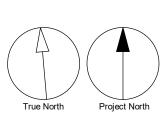
147 Strapping and seismic strengthening at existing floor diaphragm, see structural.

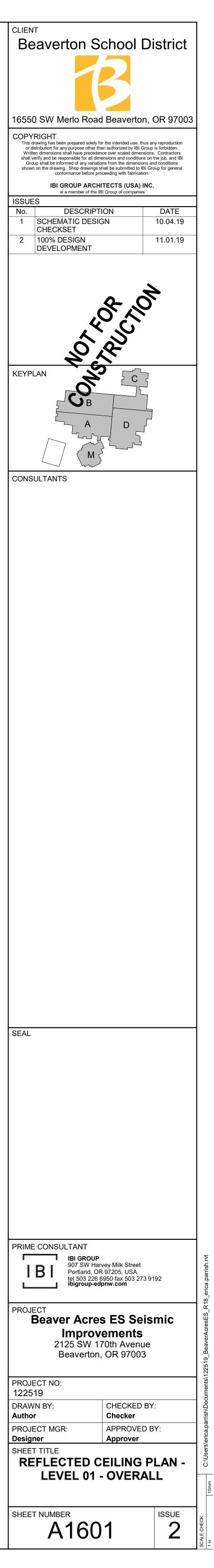
162 Install CPT and rubber base to match existing in entire room.

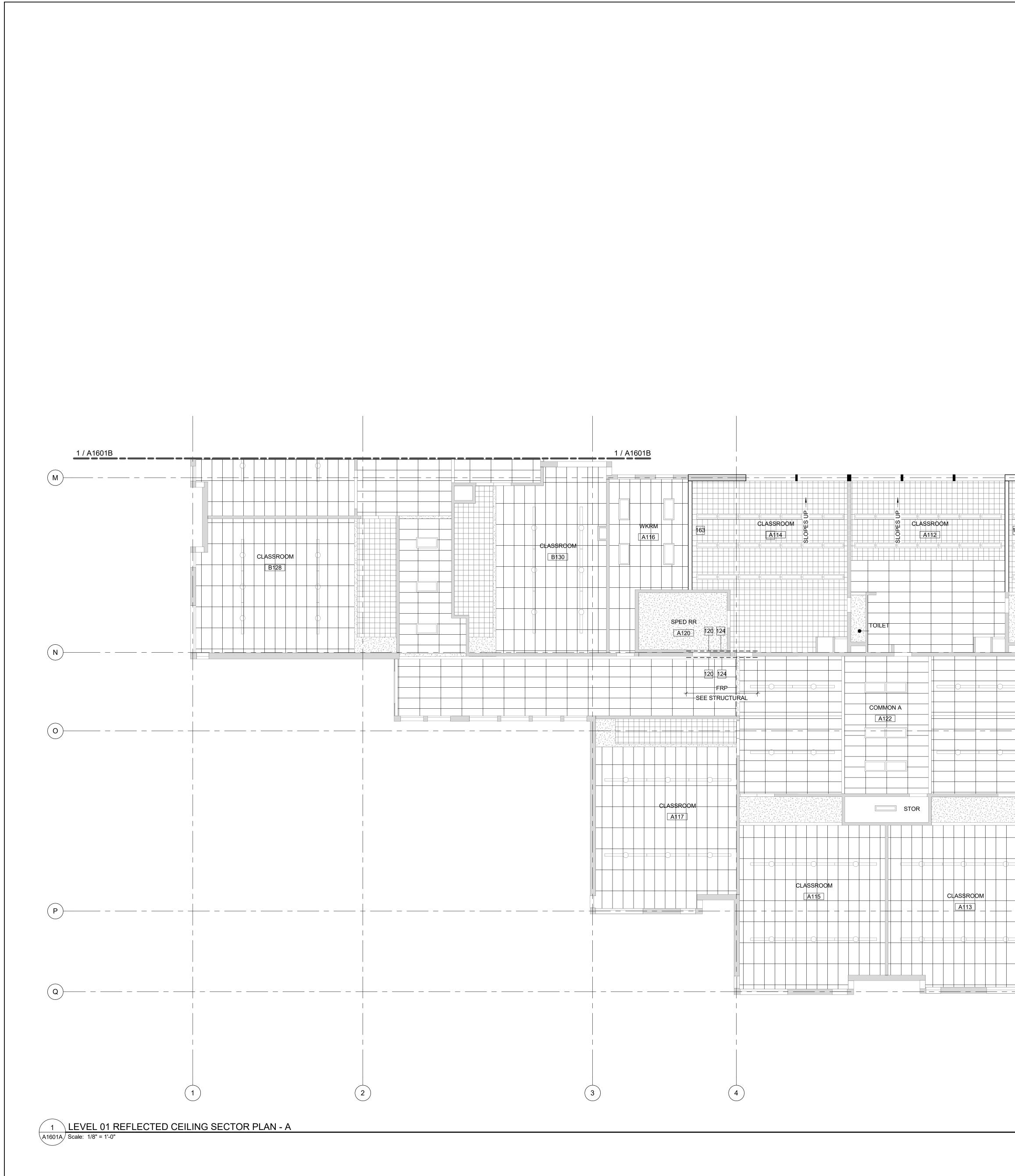






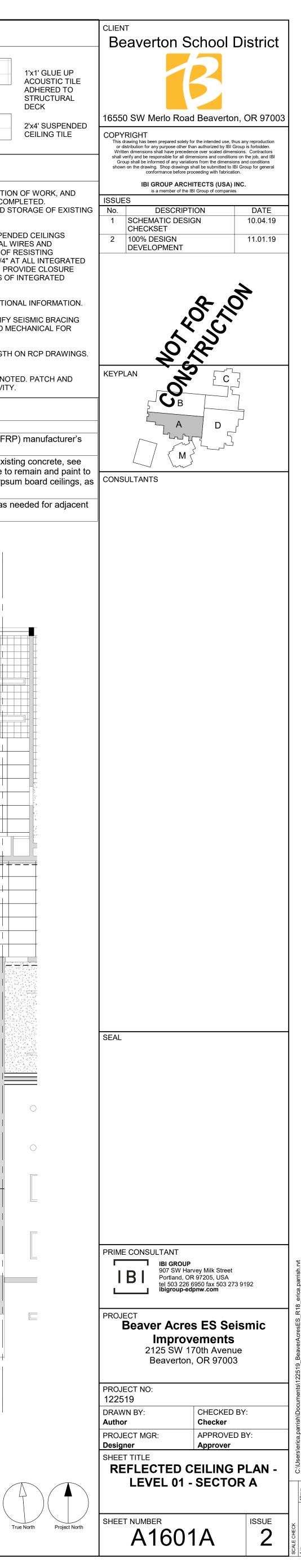


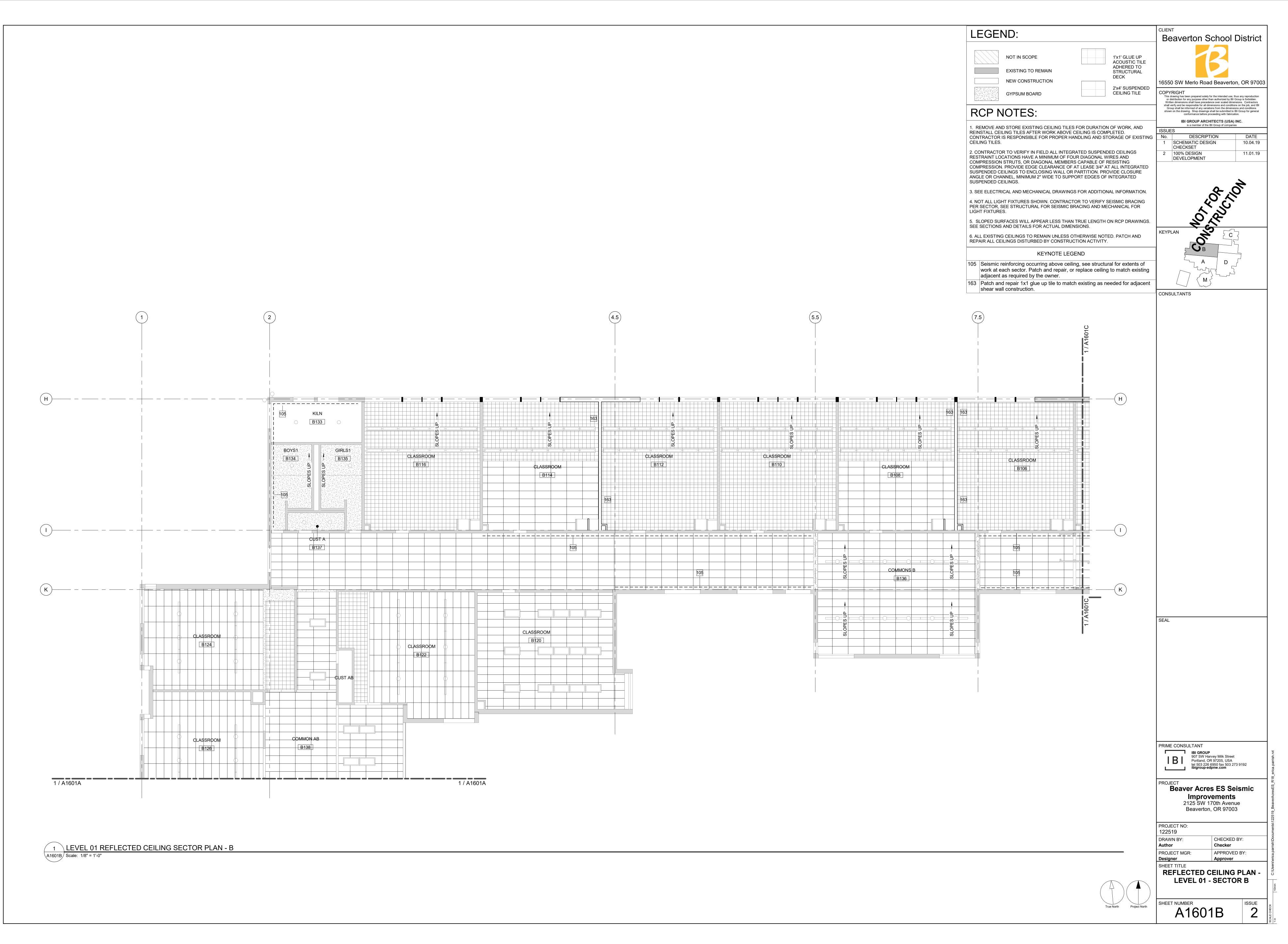




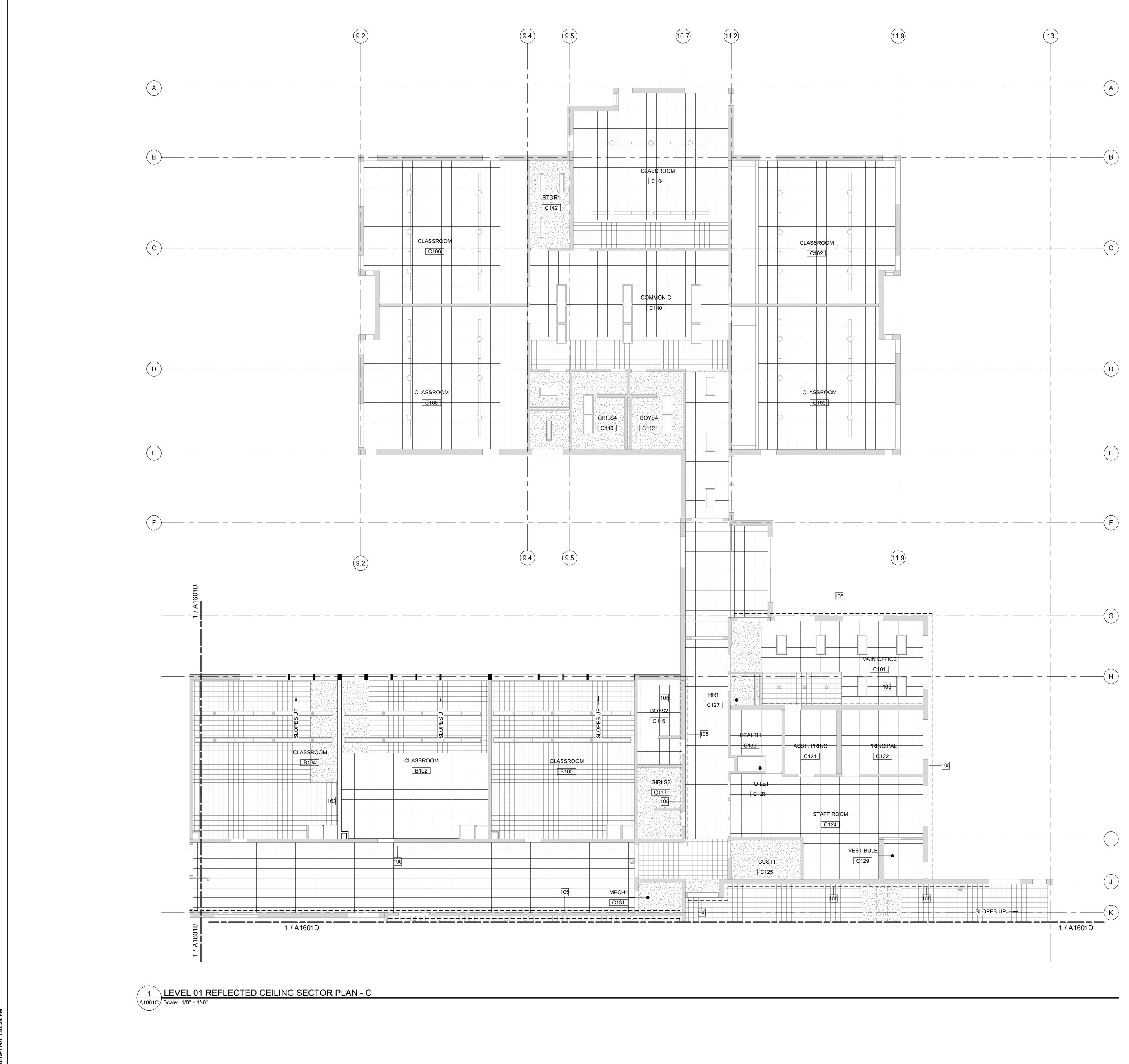
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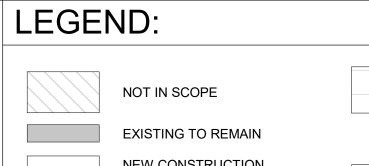
	LEGEND:	
		OPE 1'x1' GLUE UP ACOUSTIC TILE ADHERED TO STRUCTURAL DECK 2'x4' SUSPENDEE
		OARD CEILING TILE
	1. REMOVE AND STORE EX REINSTALL CEILING TILES A	STING CEILING TILES FOR DURATION OF WORK, AND FTER WORK ABOVE CEILING IS COMPLETED. IBLE FOR PROPER HANDLING AND STORAGE OF EXISTIN
	CEILING TILES. 2. CONTRACTOR TO VERIFY RESTRAINT LOCATIONS HA COMPRESSION STRUTS, OF COMPRESSION. PROVIDE E SUSPENDED CEILINGS TO E	IN FIELD ALL INTEGRATED SUSPENDED CEILINGS VE A MINIMUM OF FOUR DIAGONAL WIRES AND DIAGONAL MEMBERS CAPABLE OF RESISTING DGE CLEARANCE OF AT LEASE 3/4" AT ALL INTEGRATED NCLOSING WALL OR PARTITION. PROVIDE CLOSURE UM 2" WIDE TO SUPPORT EDGES OF INTEGRATED
	4. NOT ALL LIGHT FIXTURES	CHANICAL DRAWINGS FOR ADDITIONAL INFORMATION. SHOWN. CONTRACTOR TO VERIFY SEISMIC BRACING URAL FOR SEISMIC BRACING AND MECHANICAL FOR
	SEE SECTIONS AND DETAIL 6. ALL EXISTING CEILINGS T	APPEAR LESS THAN TRUE LENGTH ON RCP DRAWINGS S FOR ACTUAL DIMENSIONS. O REMAIN UNLESS OTHERWISE NOTED. PATCH AND
		JRBED BY CONSTRUCTION ACTIVITY. KEYNOTE LEGEND
	instructions on both s 124 Structural fiber reinfo structural. Paint to m match existing. Patch needed.	s per fiber reinforced polymer (FRP) manufacturer's sides of wall. rcement polymer (FRP) over existing concrete, see atch existing. Existing concrete to remain and paint i n and repair suspended and gypsum board ceilings, glue up tile to match existing as needed for adjacer
	shear wall construction	on.
		1 / A1601C
163 1		CLASSROOM S S A106
	CUST2 A130	
		GIRLS3
		D019
		TOR6 BOILER ROOM
1 / A1601M	1 / A16	01M
(5) (6)	BB 7 AA	1/ A10





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GYPSUM BOARD

RCP NOTES:

1. REMOVE AND STORE EXISTING CEILING TILES FOR DURATION OF WORK, AND REINSTALL CEILING TILES AFTER WORK ABOVE CEILING IS COMPLETED. CONTRACTOR IS RESPONSIBLE FOR PROPER HANDLING AND STORAGE OF EXISTING CEILING TILES.

2. CONTRACTOR TO VERIFY IN FIELD ALL INTEGRATED SUSPENDED CEILINGS RESTRAINT LOCATIONS HAVE A MINIMUM OF FOUR DIAGONAL WIRES AND COMPRESSION STRUTS, OR DIAGONAL MEMBERS CAPABLE OF RESISTING COMPRESSION. PROVIDE EDGE CLEARANCE OF AT LEASE 3/4" AT ALL INTEGRATED SUSPENDED CEILINGS TO ENCLOSING WALL OR PARTITION. PROVIDE CLOSURE ANGLE OR CHANNEL, MINIMUM 2" WIDE TO SUPPORT EDGES OF INTEGRATED SUSPENDED CEILINGS.

3. SEE ELECTRICAL AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
4. NOT ALL LIGHT FIXTURES SHOWN. CONTRACTOR TO VERIFY SEISMIC BRACING PER SECTOR, SEE STRUCTURAL FOR SEISMIC BRACING AND MECHANICAL FOR LIGHT FIXTURES.

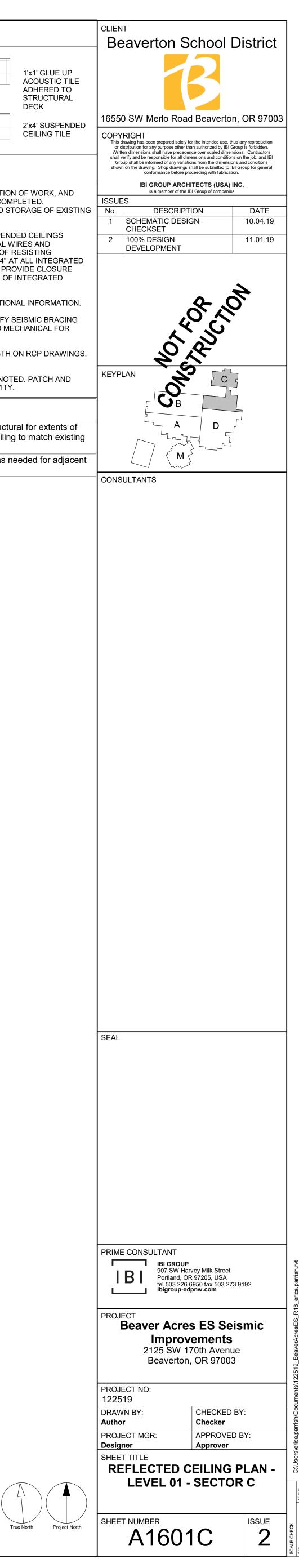
5. SLOPED SURFACES WILL APPEAR LESS THAN TRUE LENGTH ON RCP DRAWINGS. SEE SECTIONS AND DETAILS FOR ACTUAL DIMENSIONS.

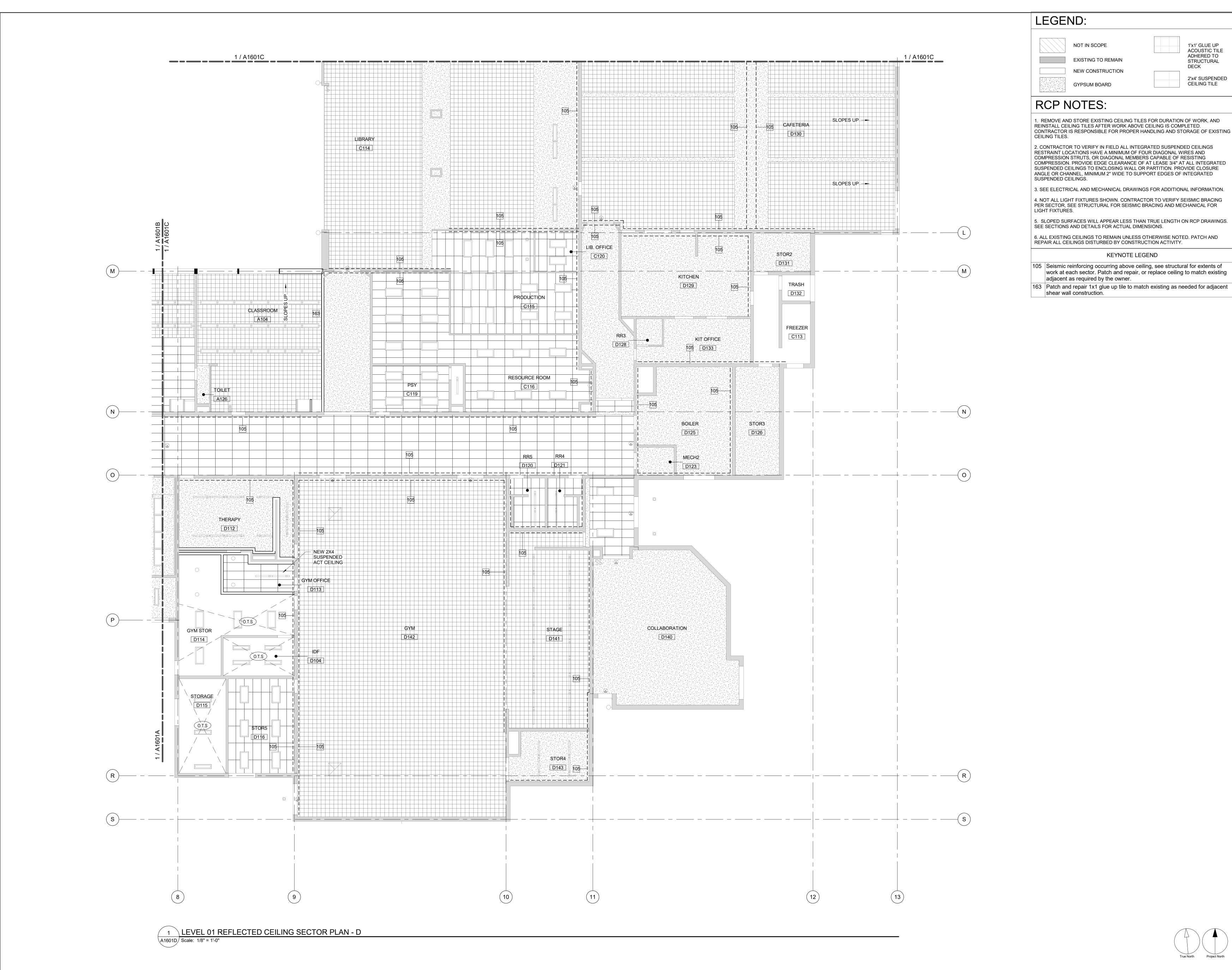
6. ALL EXISTING CEILINGS TO REMAIN UNLESS OTHERWISE NOTED. PATCH AND REPAIR ALL CEILINGS DISTURBED BY CONSTRUCTION ACTIVITY.

KEYNOTE LEGEND

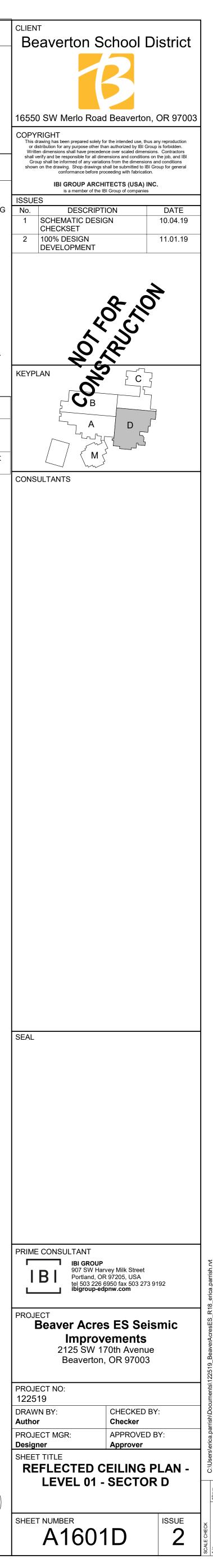
105 Seismic reinforcing occurring above ceiling, see structural for extents of work at each sector. Patch and repair, or replace ceiling to match existing adjacent as required by the owner.

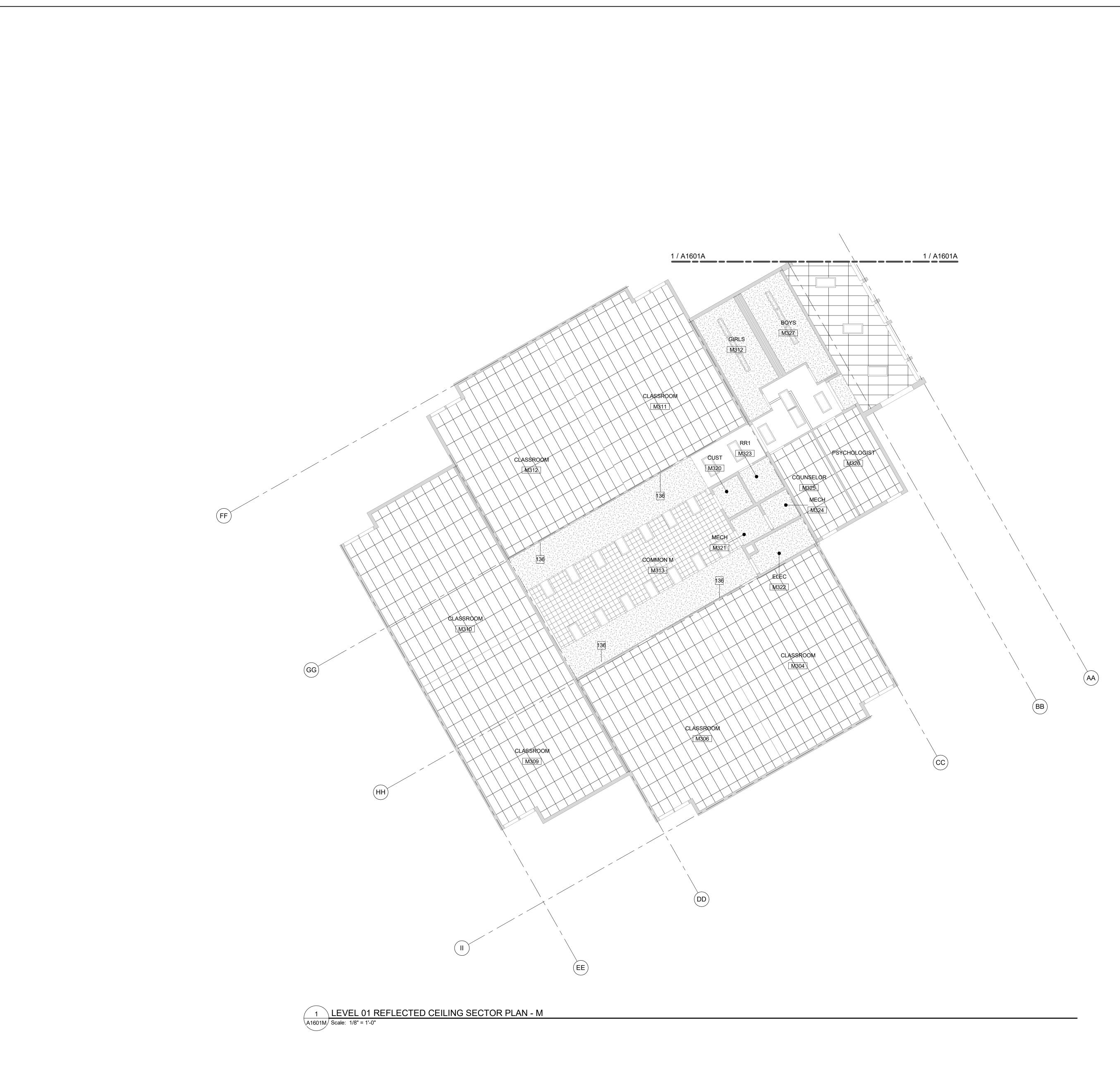
163 Patch and repair 1x1 glue up tile to match existing as needed for adjacent shear wall construction.





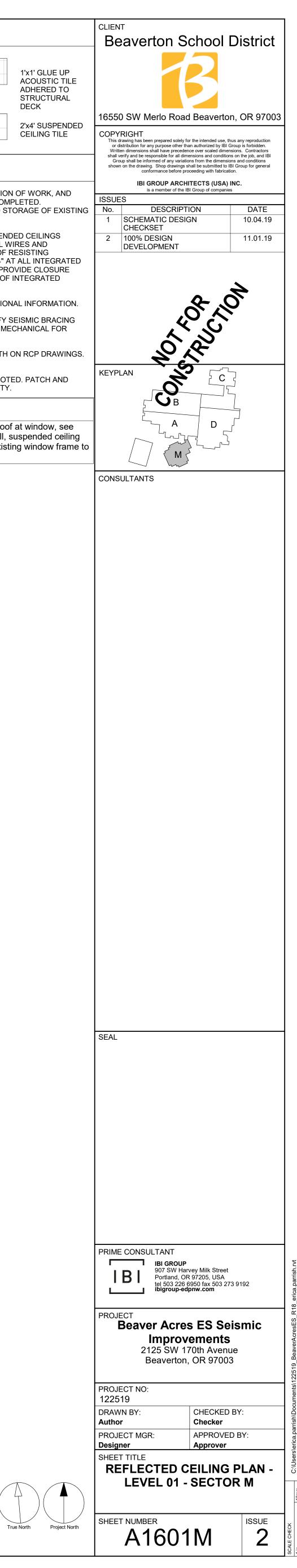
True North Project North

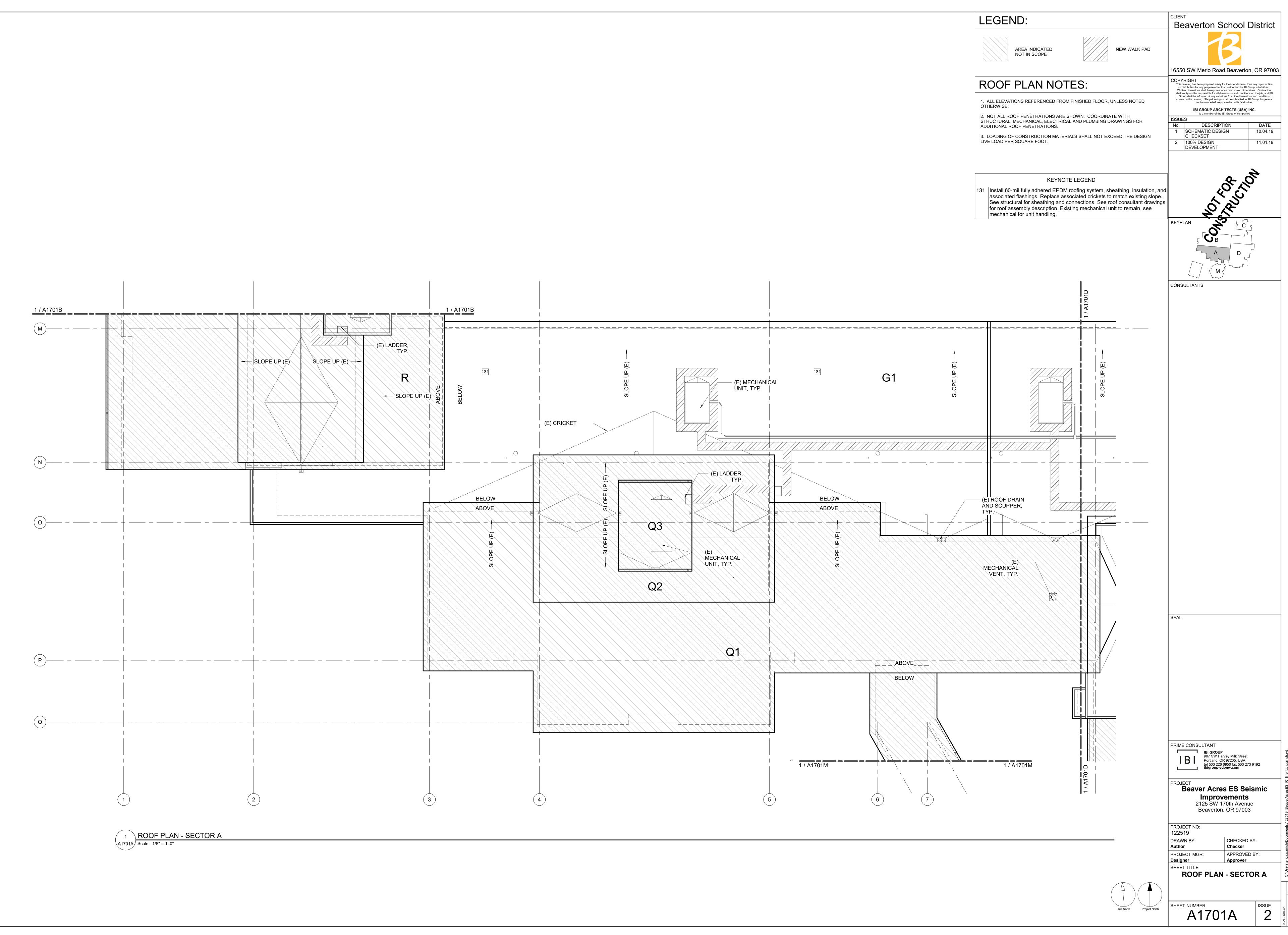


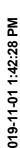


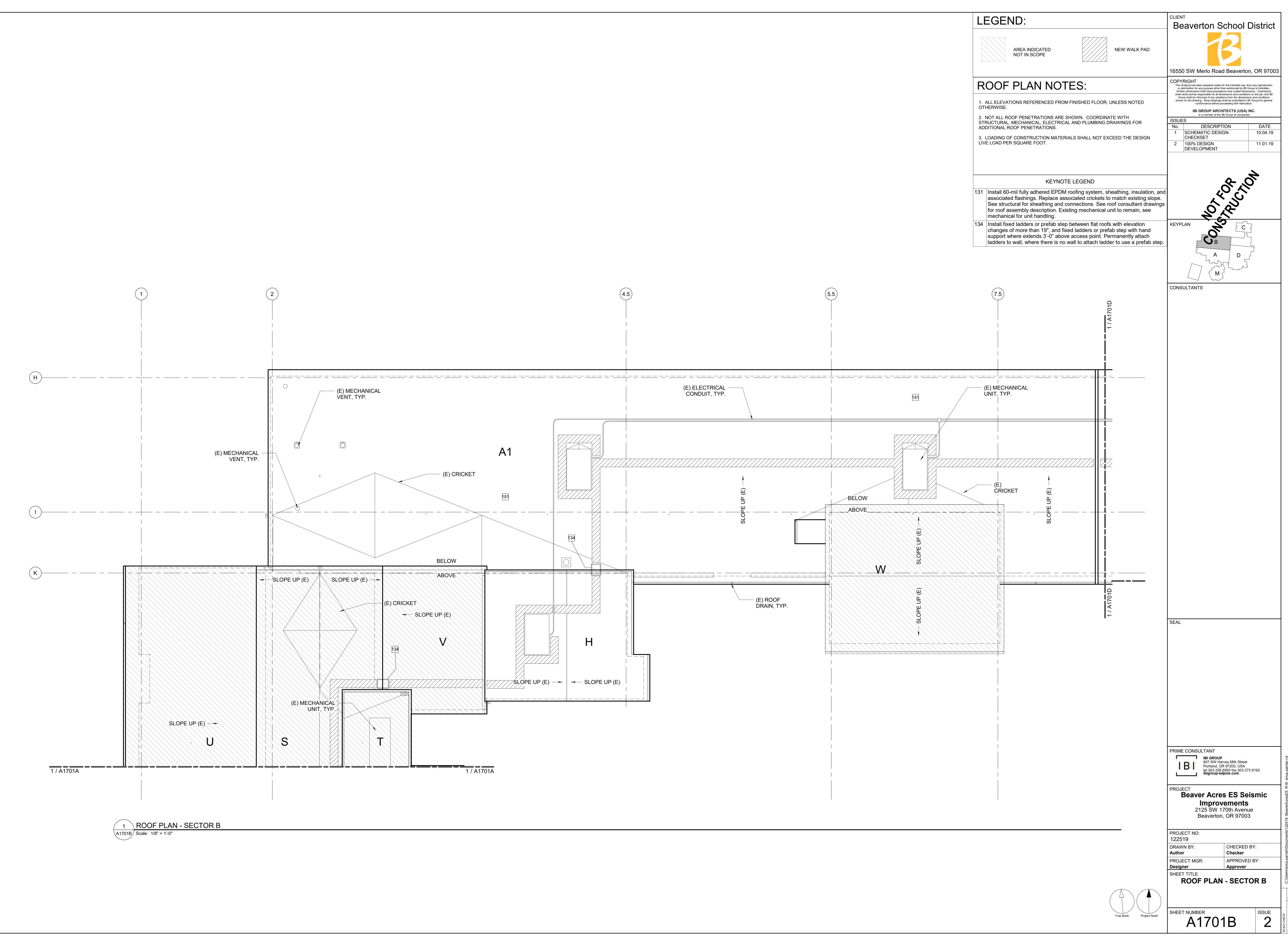
	ND:		
	NOT IN SCOPE EXISTING TO REMAIN NEW CONSTRUCTION GYPSUM BOARD		1'x1' GLUE UP ACOUSTIC TILE ADHERED TO STRUCTURAL DECK 2'x4' SUSPENDED CEILING TILE
RCP N	IOTES:		
REINSTALL CEII	D STORE EXISTING CEILING ⁻ LING TILES AFTER WORK AB IS RESPONSIBLE FOR PROPE	OVE CEILING IS COM	PLETED.
RESTRAINT LOC COMPRESSION COMPRESSION SUSPENDED CE	R TO VERIFY IN FIELD ALL IN CATIONS HAVE A MINIMUM O STRUTS, OR DIAGONAL MEN . PROVIDE EDGE CLEARANCI EILINGS TO ENCLOSING WAL .NNEL, MINIMUM 2" WIDE TO S EILINGS.	F FOUR DIAGONAL W IBERS CAPABLE OF F E OF AT LEASE 3/4" A L OR PARTITION. PRO	/IRES AND RESISTING T ALL INTEGRATED DVIDE CLOSURE
3. SEE ELECTRI	ICAL AND MECHANICAL DRAV	VINGS FOR ADDITION	NAL INFORMATION.
	HT FIXTURES SHOWN. CONTI SEE STRUCTURAL FOR SEISM S.		
	RFACES WILL APPEAR LESS T AND DETAILS FOR ACTUAL D		ON RCP DRAWINGS
	G CEILINGS TO REMAIN UNLE ILINGS DISTURBED BY CONS		
	KEYNOTE	LEGEND	

136 Diagonal rod vertical bracing between high and low roof at window, see structural. Patch, repair, and paint gypsum board wall, suspended ceiling and gypsum board ceiling to match existing. Paint existing window frame to match existing.

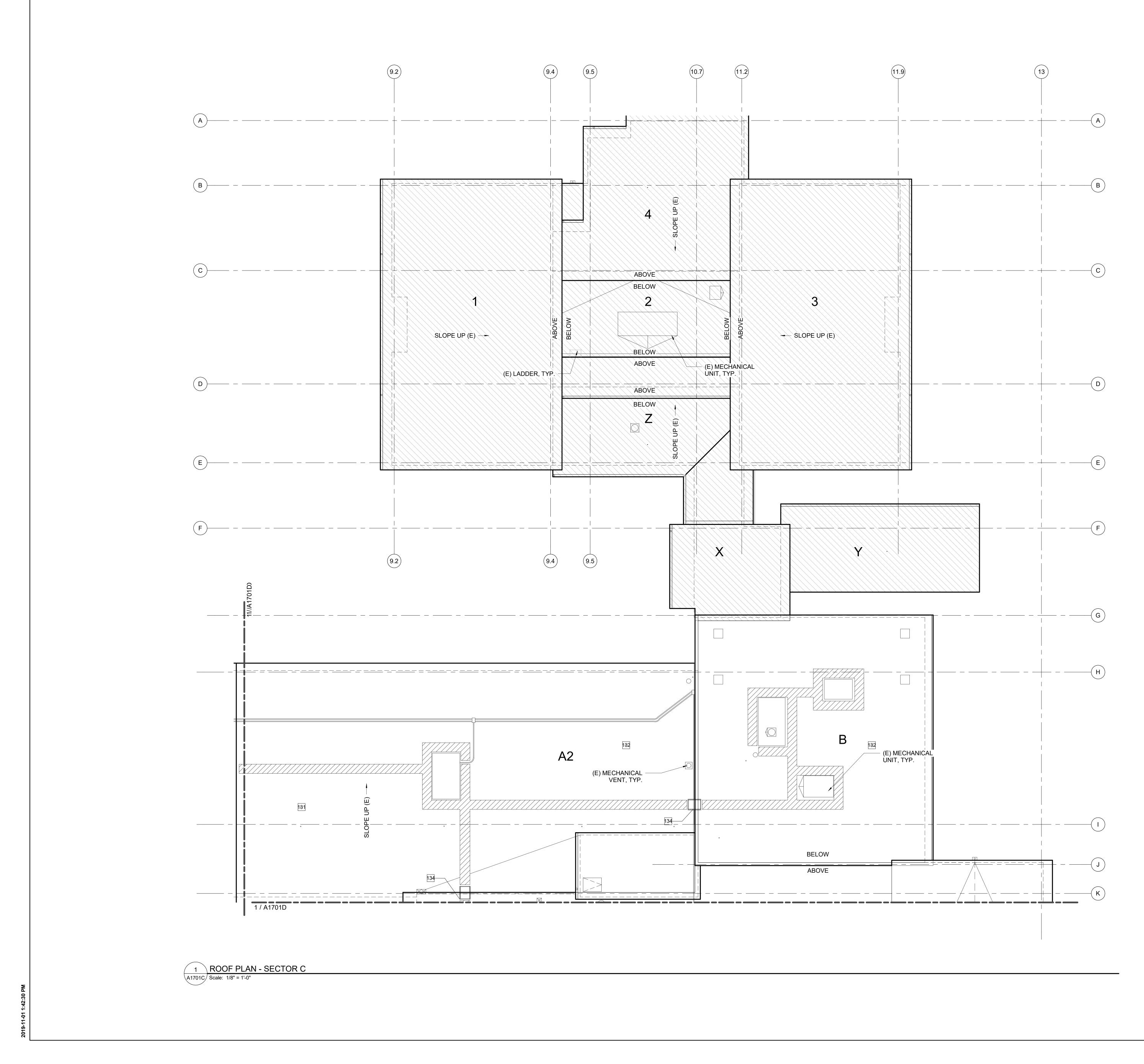














AREA INDICATED NOT IN SCOPE

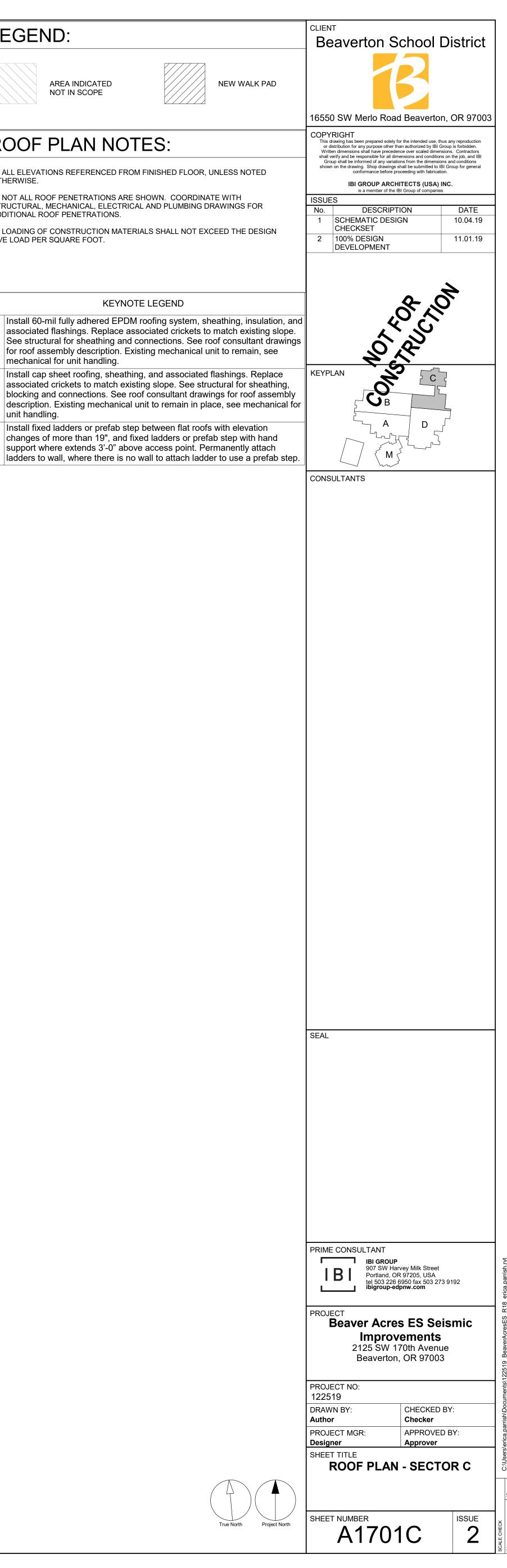
ROOF PLAN NOTES:

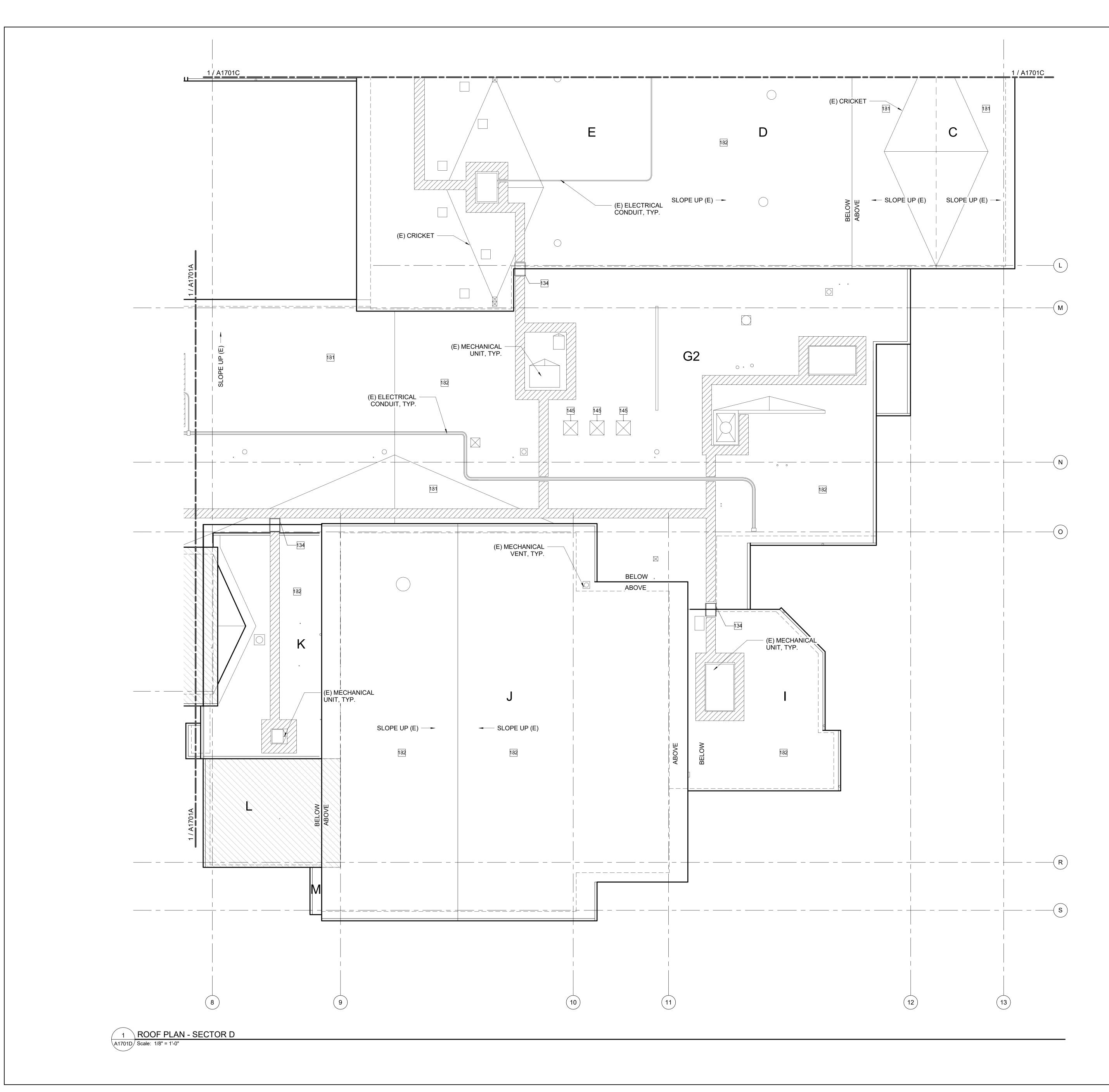
1. ALL ELEVATIONS REFERENCED FROM FINISHED FLOOR, UNLESS NOTED OTHERWISE.

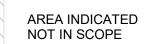
2. NOT ALL ROOF PENETRATIONS ARE SHOWN. COORDINATE WITH STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL ROOF PENETRATIONS.

3. LOADING OF CONSTRUCTION MATERIALS SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT.

KEYNOTE LEGEND 131 Install 60-mil fully adhered EPDM roofing system, sheathing, insulation, and associated flashings. Replace associated crickets to match existing slope. See structural for sheathing and connections. See roof consultant drawings for roof assembly description. Existing mechanical unit to remain, see mechanical for unit handling. 132 Install cap sheet roofing, sheathing, and associated flashings. Replace associated crickets to match existing slope. See structural for sheathing, blocking and connections. See roof consultant drawings for roof assembly description. Existing mechanical unit to remain in place, see mechanical for unit handling. 134 Install fixed ladders or prefab step between flat roofs with elevation changes of more than 19", and fixed ladders or prefab step with hand support where extends 3'-0" above access point. Permanently attach







ROOF PLAN NOTES:

1. ALL ELEVATIONS REFERENCED FROM FINISHED FLOOR, UNLESS NOTED OTHERWISE.

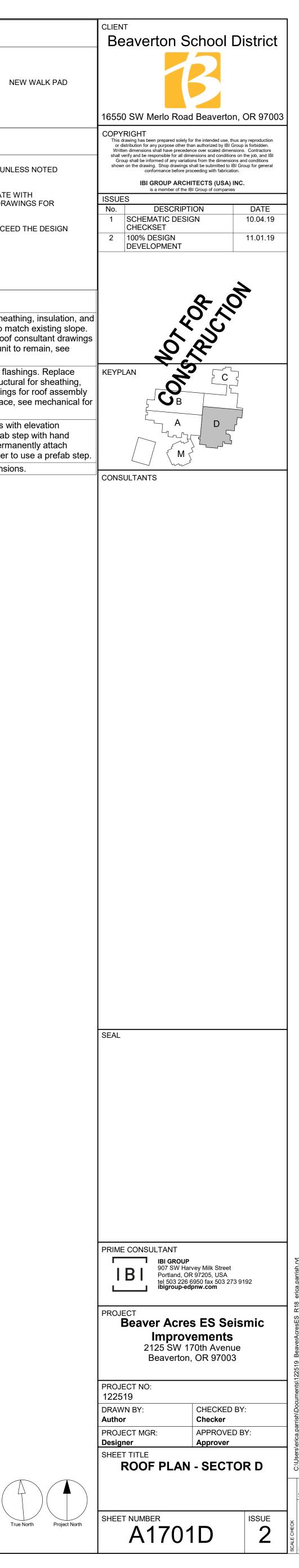
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KEYNOTE LEGEND

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- 132 Install cap sheet roofing, sheathing, and associated flashings. Replace associated crickets to match existing slope. See structural for sheathing, blocking and connections. See roof consultant drawings for roof assembly description. Existing mechanical unit to remain in place, see mechanical for unit handling.

134 Install fixed ladders or prefab step between flat roofs with elevation changes of more than 19", and fixed ladders or prefab step with hand support where extends 3'-0" above access point. Permanently attach ladders to wall, where there is no wall to attach ladder to use a prefab step. 145 Install flat fiberglass skylight to match existing dimensions.





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LEGEND:

AREA INDICATED NOT IN SCOPE

NEW WALK PAD

ROOF PLAN NOTES:

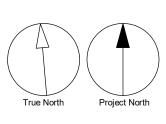
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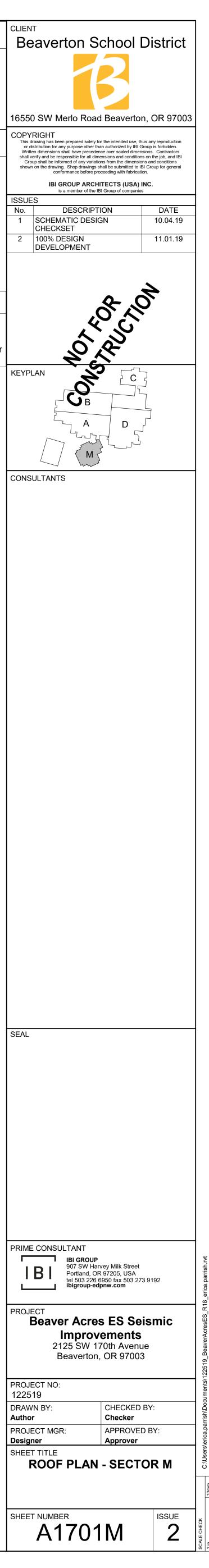
2. NOT ALL ROOF PENETRATIONS ARE SHOWN. COORDINATE WITH STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL ROOF PENETRATIONS.

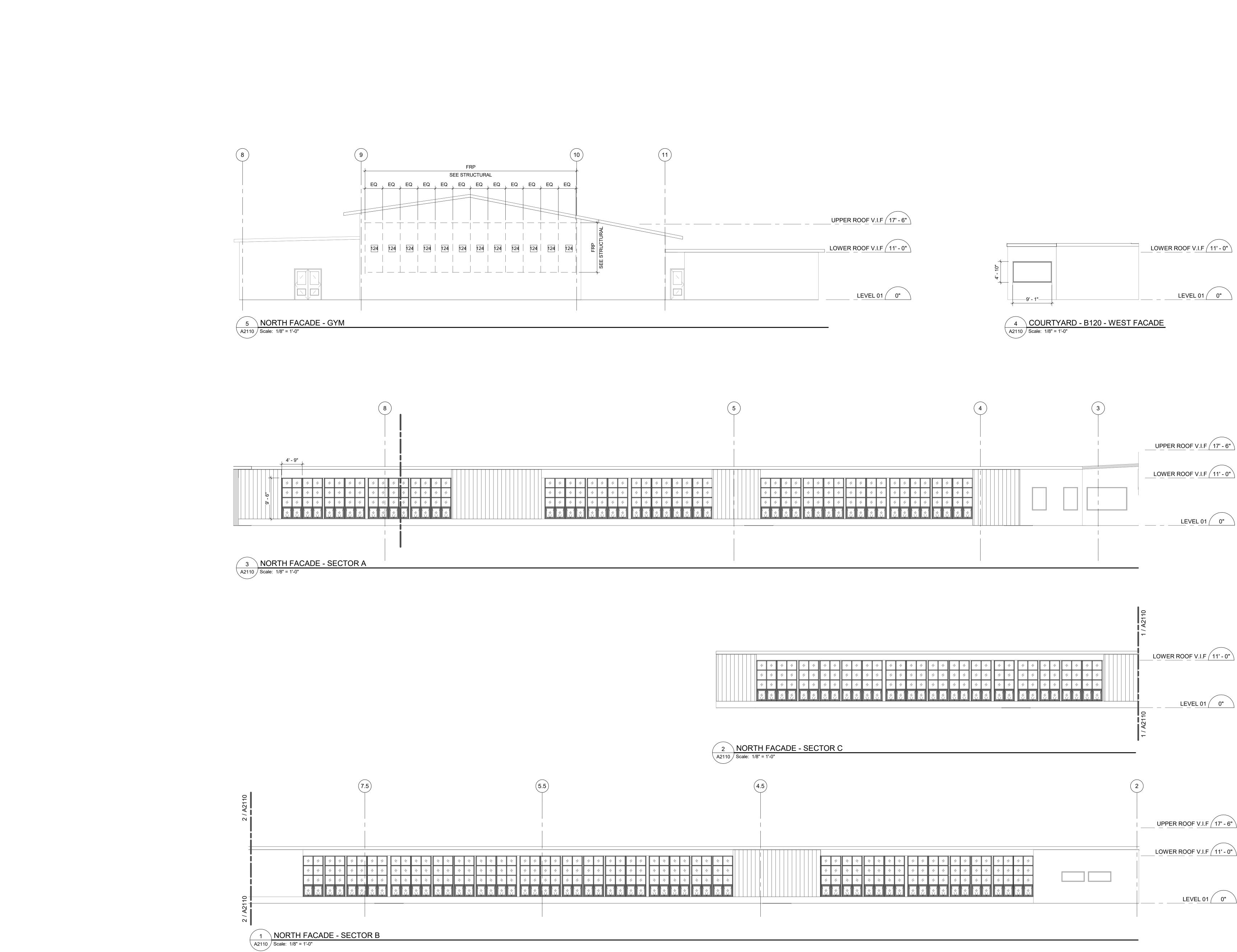
3. LOADING OF CONSTRUCTION MATERIALS SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT.

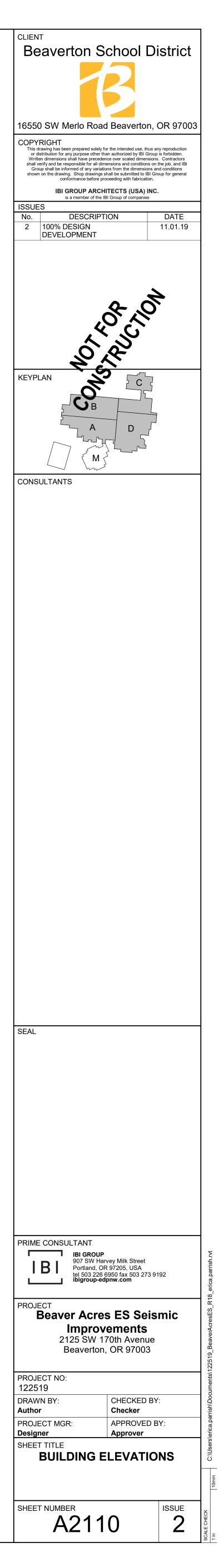
KEYNOTE LEGEND

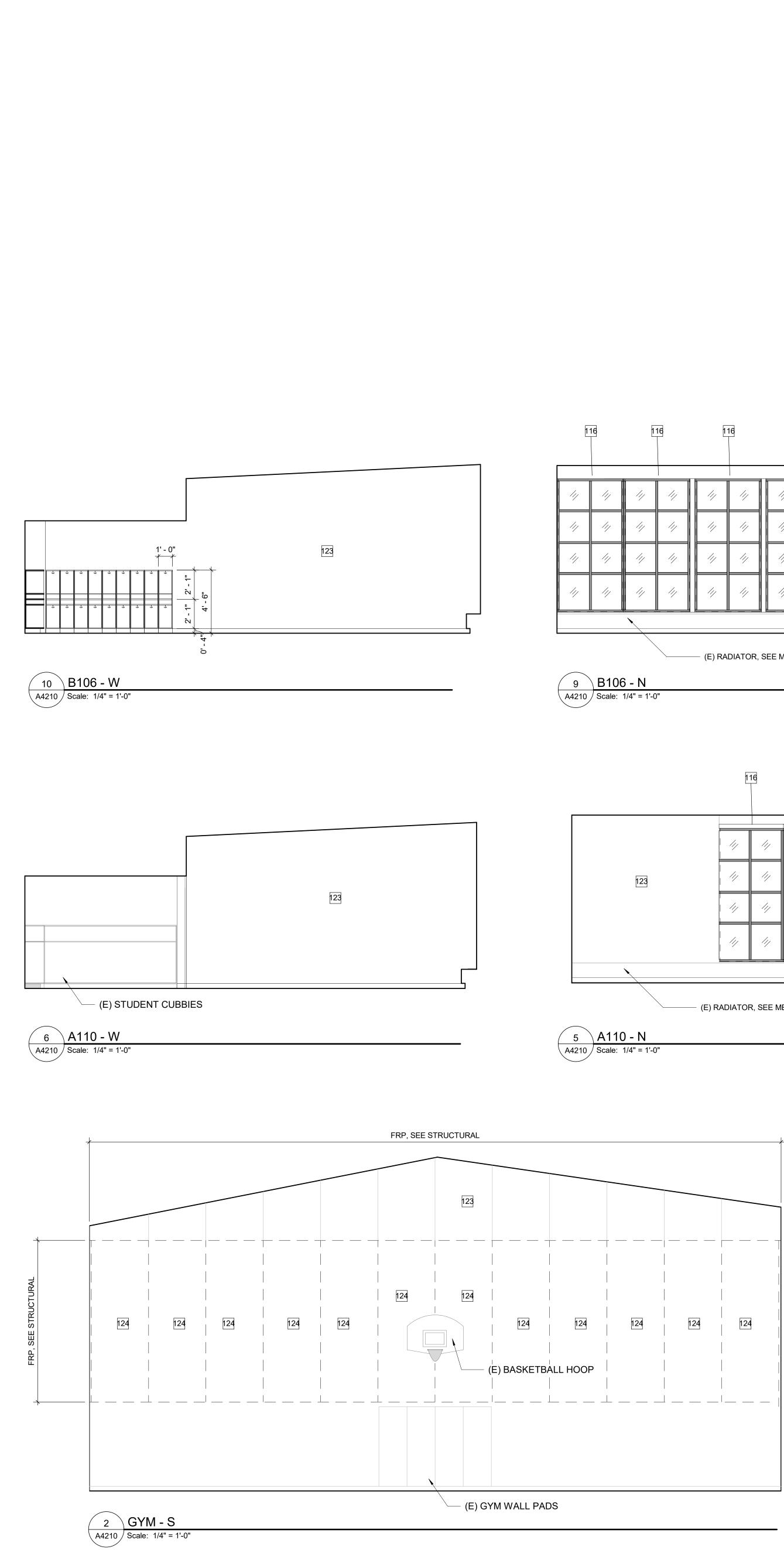
132 Install cap sheet roofing, sheathing, and associated flashings. Replace associated crickets to match existing slope. See structural for sheathing, blocking and connections. See roof consultant drawings for roof assembly description. Existing mechanical unit to remain in place, see mechanical for unit handling.

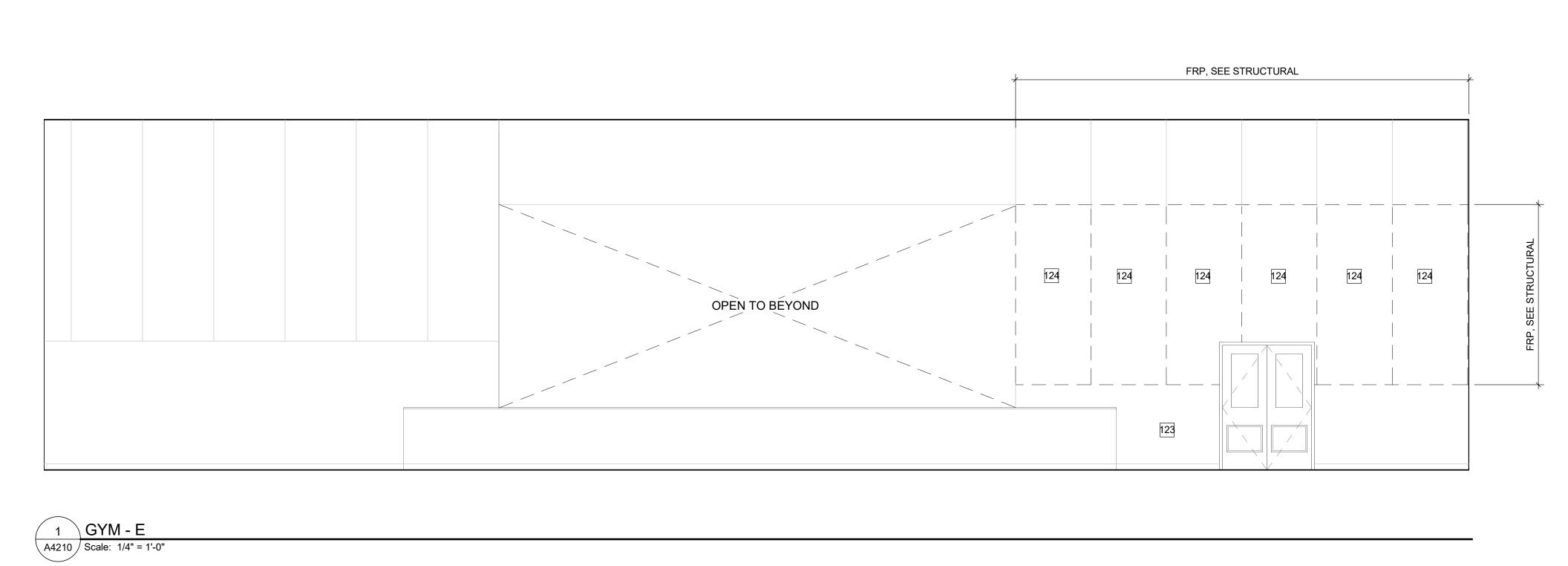












— (E) RADIATOR, SEE MECHANICAL

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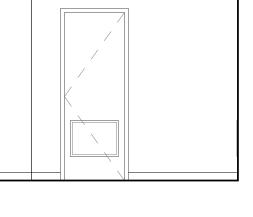
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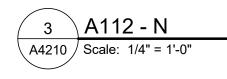
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4 A112 - E A4210 Scale: 1/4" = 1'-0"

8	B108 - E		
A4210	Scale: 1/4" = 1'-0"		
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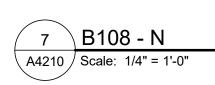
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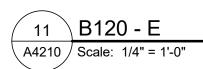


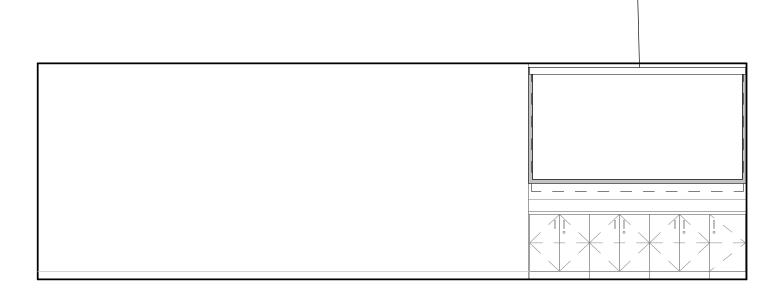
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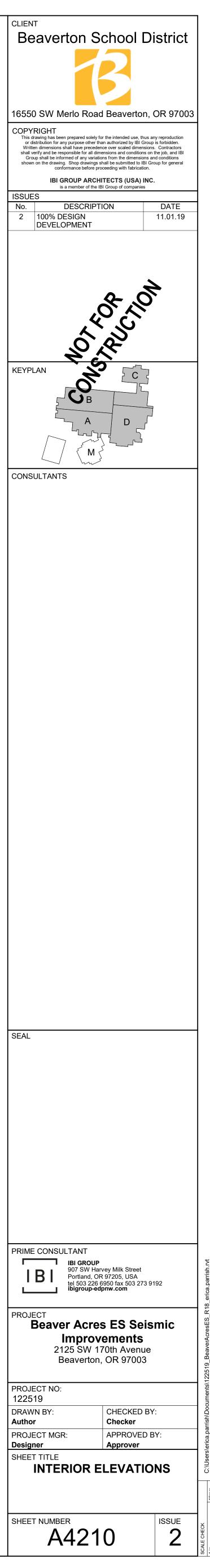


— (E) RADIATOR, SEE MECHANICAL

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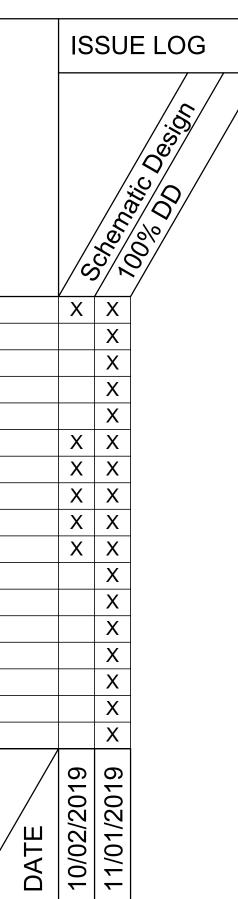




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	DRAWING INDEX		
			/ 20/
S0001	DRAWING INDEX AND LIST OF ABBREVIATIONS	Х	
S0002	GENERAL STRUCTURAL NOTES		
S0003	GENERAL STRUCTURAL NOTES CONT.		
S0004	SPECIAL INSPECTION AND TESTING PROGRAM		
S0005	SPECIAL INSPECTION AND TESTING PROGRAM CONT.		
S1501A	FLOOR PLAN - LEVEL 01 - SECTOR A	Х	
S1501B	FLOOR PLAN - LEVEL 01 - SECTOR B	Х	
S1501C	FLOOR PLAN - LEVEL 01 - SECTOR C	Х	
S1501D	FLOOR PLAN - LEVEL 01 - SECTOR D	Х	
S1501M	FLOOR PLAN - LEVEL 01 - SECTOR M	Х	
S1701A	ROOF FRAMING PLAN - SECTOR A		
S1701B	ROOF FRAMING PLAN - SECTOR B		
S1701C	ROOF FRAMING PLAN - SECTOR C		
S1701D	ROOF FRAMING PLAN - SECTOR D		
S1701M	ROOF FRAMING PLAN - SECTOR M		
S5001	CONCRETE DETAILS		
S6001	FRAMING DETAILS		L
ISSUE L	OG KEY:	19	

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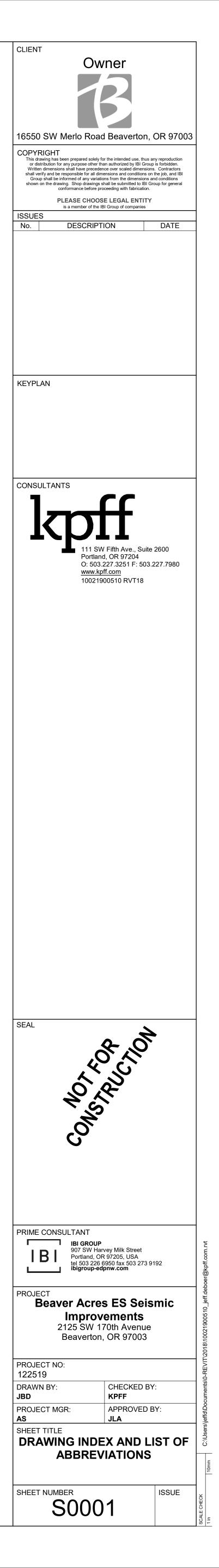
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LIST OF ABBREVIATIONS

A.B.	ANCHOR BOLT	LVL
ACI	AMERICAN CONCRETE INSTITUTE	MAX.
ADD'L.	ADDITIONAL	MBMA
AESS	ARCHITECTURAL EXPOSED STRUCTURAL STEEL	MECH.
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION INCORPORATED	MFR.
ALT.	ALTERNATE	MIN.
ALUM.	ALUMINUM	MISC. MPH
ARCH.	ARCHITECT	MT
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	(N)
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	N.I.C.
AWS	AMERICAN WELDING SOCIETY	NLT
BLDG.	BUILDING	NOM. NO.
BOT.	BOTTOM	N.T.S.
BRBF	BUCKLING RESTRAINED BRACED FRAME	0.C.
C.G.	CENTER OF GRAVITY	O.D.
C.I.P.	CAST IN PLACE	OPP.
C.J.	CONTROL JOINT	OSL
C.J.P.	COMPLETE JOINT PENETRATION	OWJ
CL	CENTERLINE	PAF
CLR.		PART. P/C
CLT	CROSS LAMINATED TIMBER CONCRETE MASONRY UNIT	PCF
COL.	COLUMN	PERIM.
CONC.	CONCRETE	PL
CONN.	CONNECTION	PP
CONST.	CONSTRUCTION	PSF
CONT.	CONTINUOUS	PSL
db	BAR DIAMETER	PSI
DBA	DEFORMED BAR ANCHOR	P/T
DET.	DETAIL	P.T.
DIA., Ø	DIAMETER	PVC
DIAG.	DIAGONAL	R, RAD.
D.L.	DEAD LOAD	RCSC
DLT	DOWEL LAMINATED TIMBER	REF.
DWG.	DRAWING	REF. RET.
DWG. ELEC.	DRAWING ELECTRICAL	
DWG. ELEC. EL.	DRAWING ELECTRICAL ELEVATION	RET.
DWG. ELEC. EL. EQ.	DRAWING ELECTRICAL ELEVATION EQUAL	RET. REINF.
DWG. ELEC. EL.	DRAWING ELECTRICAL ELEVATION EQUAL	RET. REINF. REQ'D. REQ'MTS. SCHED.
DWG. ELEC. EL. EQ. EXIST., (E)	DRAWING ELECTRICAL ELEVATION EQUAL EXISTING	RET. REINF. REQ'D. REQ'MTS. SCHED. S.C.
DWG. ELEC. EL. EQ. EXIST., (E) EXP.	DRAWING ELECTRICAL ELEVATION EQUAL EXISTING EXPANSION	RET. REINF. REQ'D. REQ'MTS. SCHED. S.C. SCL
DWG. ELEC. EL. EQ. EXIST., (E) EXP. EXT.	DRAWING ELECTRICAL ELEVATION EQUAL EXISTING EXPANSION EXTERIOR	RET. REINF. REQ'D. REQ'MTS. SCHED. S.C. SCL SIM.
DWG. ELEC. EL. EQ. EXIST., (E) EXP. EXT. FDN.	DRAWING ELECTRICAL ELEVATION EQUAL EXISTING EXPANSION EXTERIOR FOUNDATION	RET. REINF. REQ'D. REQ'MTS. SCHED. S.C. SCL SIM. SLRS
DWG. ELEC. EL. EQ. EXIST., (E) EXP. EXT. FDN. FIN.	DRAWING ELECTRICAL ELEVATION EQUAL EXISTING EXPANSION EXTERIOR FOUNDATION FINISH	RET. REINF. REQ'D. REQ'MTS. SCHED. S.C. SCL SIM. SLRS S.O.G.
DWG. ELEC. EL. EQ. EXIST., (E) EXP. EXT. FDN. FIN. FIN.	DRAWING ELECTRICAL ELEVATION EQUAL EXISTING EXPANSION EXTERIOR FOUNDATION FINISH FLOOR	RET. REINF. REQ'D. REQ'MTS. SCHED. S.C. SCL SIM. SLRS
DWG. ELEC. EL. EQ. EXIST., (E) EXP. EXT. FDN. FIN. FIN. FLR. FT.	DRAWING ELECTRICAL ELEVATION EQUAL EXISTING EXPANSION EXTERIOR FOUNDATION FINISH FLOOR FOOT	RET. REINF. REQ'D. REQ'MTS. SCHED. S.C. SCL SIM. SLRS S.O.G. SPEC.
DWG. ELEC. EL. EQ. EXIST., (E) EXP. EXT. FDN. FIN. FIN. FIR. FTG. FTG. FRT GA.	DRAWING ELECTRICAL ELEVATION EQUAL EQUAL EXISTING EXPANSION EXTERIOR FOUNDATION FINISH FLOOR FOOT FOOTING FIRE RETARDANT TREATED GAUGE	RET. REINF. REQ'D. REQ'MTS. SCHED. S.C. SCL SIM. SLRS S.O.G. SPEC. SQ.
DWG. ELEC. EL. EQ. EXIST., (E) EXP. EXT. FDN. FIN. FIN. FIR. FIR. FTG. FTG. FRT GA. GALV.	DRAWING ELECTRICAL ELEVATION EQUAL EQUAL EXISTING EXPANSION EXTERIOR FOUNDATION FINISH FLOOR FLOOR FOOT FOOTING FIRE RETARDANT TREATED GAUGE GALVANIZED	RET. REINF. REQ'D. REQ'MTS. SCHED. S.C. SCL SIM. SLRS S.O.G. SPEC. SQ. SS SSMA
DWG. ELEC. EL. EQ. EXIST., (E) EXP. EXT. FDN. FIN. FIN. FIR. FIR. FT. FTG. FTG. FRT GA. GALV. GL	DRAWING ELECTRICAL ELEVATION EQUAL EQUAL EXISTING EXPANSION EXTERIOR FOUNDATION FINISH FLOOR FIOOT FOOTING FIRE RETARDANT TREATED GAUGE GALVANIZED GLULAM	RET. REINF. REQ'D. REQ'MTS. SCHED. S.C. SCL SIM. SLRS S.O.G. SPEC. SQ. SSMA SSMA
DWG. ELEC. EL. EQ. EXIST., (E) EXP. EXT. FDN. FIN. FIN. FIR. FIR. FT. GA. GALV. GL HORIZ.	DRAWING ELECTRICAL ELEVATION EQUAL EQUAL EXISTING EXPANSION EXTERIOR FOUNDATION FINISH FLOOR FLOOR FOOT FOOTING FIRE RETARDANT TREATED GAUGE GALVANIZED GLULAM	RET. REINF. REQ'D. REQ'MTS. SCHED. S.C. SCL SIM. SLRS S.O.G. SPEC. SQ. SSMA SSMA STD. STRUCT.
DWG. ELEC. EL. EQ. EXIST., (E) EXP. EXT. FDN. FIN. FIN. FIR. FIR. FTG. FTG. GA. GALV. GL HORIZ.	DRAWING ELECTRICAL ELEVATION EQUAL EQUAL EXISTING EXPANSION EXTERIOR FOUNDATION FINISH FLOOR FLOOR FOOT FOOTING FIRE RETARDANT TREATED GAUGE GALVANIZED GLULAM HORIZONTAL	RET. REINF. REQ'D. REQ'MTS. SCHED. S.C. SCL SIM. SLRS S.O.G. SPEC. SQ. SSMA SSMA STD. STRUCT. SYM.
DWG. ELEC. EL. EQ. EXIST., (E) EXP. EXT. FDN. FIN. FIN. FIR. FIR. FT. GA. GALV. GL HORIZ.	DRAWING ELECTRICAL ELEVATION EQUAL EQUAL EXISTING EXTERIOR EXTERIOR FOUNDATION FINISH FLOOR FOOT FOOT FOOT FOOTING FIRE RETARDANT TREATED GAUGE GALVANIZED GALVANIZED GLULAM HORIZONTAL HORIZONTAL HOLLOW STRUCTURAL STEEL INTERNATIONAL BUILDING CODE	RET. REINF. REQ'D. REQ'MTS. SCHED. S.C. SCL SIM. SLRS S.O.G. SPEC. SQ. SSMA SSMA STD. STRUCT.
DWG. ELEC. EL. EQ. EXIST., (E) EXP. EXT. FDN. FIN. FIN. FIR. FTG. FTG. FTG. GALV. GL HORIZ. HSS IBC ICBO	DRAWING ELECTRICAL ELEVATION EQUAL EQUAL EXISTING EXPANSION EXTERIOR FOUNDATION FINISH FLOOR FLOOR FOOT FOOTING FIRE RETARDANT TREATED GAUGE GALVANIZED GALVANIZED GLULAM HORIZONTAL HORIZONTAL HOLLOW STRUCTURAL STEEL INTERNATIONAL BUILDING CODE	RET. REINF. REQ'D. REQ'MTS. SCHED. S.C. SCL SIM. SLRS S.O.G. SPEC. SQ. SSMA SSMA STD. STRUCT. SYM. THRU
DWG. ELEC. EL. EQ. EXIST., (E) EXP. EXT. FDN. FIN. FIN. FIR. FIR. FTG. FTG. GA. GALV. GL HORIZ. HSS IBC	DRAWING ELECTRICAL ELEVATION EQUAL EQUAL EXISTING EXTERIOR EXTERIOR FOUNDATION FINISH FLOOR FOOT FOOT FOOT FOOTING FIRE RETARDANT TREATED GAUGE GALVANIZED GALVANIZED GLULAM HORIZONTAL HORIZONTAL HOLLOW STRUCTURAL STEEL INTERNATIONAL BUILDING CODE	RET. REINF. REQ'D. REQ'MTS. SCHED. S.C. SCL SIM. SLRS S.O.G. SPEC. SQ. SSMA SSMA STD. STRUCT. SYM. THRU T&G
DWG. ELEC. EL. EQ. EXIST., (E) EXIST., (E) EXT. FDN. FIN. FIR. FIR. FT. FTG. FTG. GALV. GL HORIZ. HSS IBC ICBO	DRAWING ELECTRICAL ELEVATION EQUAL EXISTING EXISTING EXPANSION EXTERIOR FOUNDATION FOUNDATION FINISH FLOOR FOOT FOOT FOOT FOOT GAUGE GALVANIZED GALVANIZED GLULAM HORIZONTAL HOLLOW STRUCTURAL STEEL INTERNATIONAL BUILDING CODE INTERNATIONAL BUILDING CODE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS	RET. REINF. REQ'D. REQ'MTS. SCHED. SCL SIM. SLRS S.O.G. SPEC. SQ. SSMA STD. STRUCT. SYM. THRU T&G TRANS. TJ TS
DWG. ELEC. EL. EQ. EXIST., (E) EXIST., (E) EXT. FDN. FIN. FIR. FIR. FT. FTG. FTG. GALV. GL HORIZ. HSS IBC ICBO	DRAWING ELECTRICAL ELEVATION EQUAL EQUAL EXISTING EXISTING EXPANSION EXTERIOR FOUNDATION FOUNDATION FINISH FLOOR FLOOR FOOT FOOT FOOTING FIRE RETARDANT TREATED GAUGE GALVANIZED GALVANIZED GALVANIZED GALVANIZED GLULAM HORIZONTAL HOLLOW STRUCTURAL STEEL INTERNATIONAL BUILDING CODE INTERNATIONAL BUILDING CODE INTERNATIONAL STEEL INTERNATIONAL STEEL INTERNATIONAL STEEL INSIDE DIAMETER	RET. REINF. REQ'D. REQ'MTS. SCHED. SCL SIM. SLRS S.O.G. SPEC. SQ. SSMA STD. STRUCT. SYM. THRU T&G TRANS. TJ TS TYP.
DWG. ELEC. EL. EQ. EXIST., (E) EXP. EXT. FDN. FIN. FIN. FIR. FT. FTG. FTG. GALV. GL HORIZ. HSS IBC ICBO	DRAWING ELECTRICAL ELEVATION EQUAL EQUAL EXISTING EXTERIOR EXTERIOR FOUNDATION FINISH FLOOR FOOT FOOTING FOOTING GALVANIZED GALVANIZED GALUAM HORIZONTAL HOLLOW STRUCTURAL STEEL INTERNATIONAL BUILDING CODE INSIDE DIAMETER INCH INCH	RET. REINF. REQ'D. REQ'MTS. SCHED. SCL SIM. SLRS S.O.G. SPEC. SQ. SSMA STD. STRUCT. SYM. THRU T&G TRANS. TJ TS TYP. U.N.O.
DWG. ELEC. EL. EQ. EXIST., (E) EXP. EXT. FDN. FIN. FIN. FIR. FT. FTG. FTG. GA. GALV. GL HORIZ. HSS IBC ICBO	DRAWING ELECTRICAL ELEVATION EQUAL EQUAL EXISTING EXISTING EXPANSION EXTERIOR EXTERIOR FOUNDATION FOUNDATION FINISH FLOOR FLOOR FOOT FOOT FOOTING FIRE RETARDANT TREATED FOOT GAUGE GALVANIZED GALVANIZED GALVANIZED GALVANIZED GALVANIZED GALVANIZED INTERNATIONAL STEEL INTERNATIONAL STEEL INTERNATIONAL STEEL INTERNATIONAL STEEL INTERNATIONAL STEEL INTERNATIONAL STEEL INCH INCH INTERIOR KIPS	RET. REINF. REQ'D. REQ'MTS. SCHED. SCL SIM. SLRS S.O.G. SPEC. SQ. SSMA STD. STRUCT. SYM. THRU T&G TRANS. TJ TS TYP. U.N.O. U.T.
DWG. ELEC. EL. EQ. EXIST., (E) EXP. EXT. FDN. FIN. FIN. FIR. FTG. FTG. FTG. GALV. GL HORIZ. HSS IBC ICBO I.D. INT. K	DRAWING ELECTRICAL ELEVATION EQUAL EQUAL EXISTING EXIPANSION EXTERIOR FOUNDATION FINISH FLOOR FLOOR FOOT FOOTING FIRE RETARDANT TREATED GAUGE GALVANIZED GAUGE GALVANIZED GLULAM HORIZONTAL HORIZONTAL HORIZONTAL STEENATIONAL BUILDING CODE INTERNATIONAL BUILDING CODE INTERNATIONAL STEEL INTERNATIONAL STEEL INSIDE DIAMETER	RET. REINF. REQ'D. REQ'MTS. SCHED. SCL SIM. SLRS S.O.G. SPEC. SQ. SSMA STD. STRUCT. SYM. THRU T&G TRANS. THRU T&G TRANS. U.N.O. U.N.O. U.T. VERT.
DWG. ELEC. EL. EQ. EXIST., (E) EXP. EXT. FDN. FIN. FIR. FIR. FT. FTG. FTG. GALV. GL HORIZ. HSS IBC ICBO I.D. I.N. INT. K	DRAWING ELECTRICAL ELEVATION EQUAL EQUAL EXISTING EXISTING EXTERIOR FOUNDATION FOUNDATION FINISH FLOOR FOOT FOOT FOOT FOOT FOOT FOOT FOOT F	RET. REINF. REQ'D. REQ'MTS. SCHED. SCL SIM. SLRS S.O.G. SPEC. SQ. SSMA STD. STRUCT. SYM. THRU T&G TRANS. TJ TS TYP. U.N.O. U.T. VERT. V.I.F.
DWG. ELEC. EL. EQ. EXIST., (E) EXIST., (E) EXT. FDN. FIN. FIN. FIR. FIR. FT. FTG. FTG. GALV. GL HORIZ. HSS IBC ICBO I.D. I.N. INT. K KSF KSI LB.	DRAWING ELECTRICAL ELEVATION EQUAL EQUAL EQUAL EXISTING EXPANSION EXTERIOR FOUNDATION FOUNDATION FINISH FLOOR FLOOR FOOTING FOOTING FIRE RETARDANT TREATED FOOTING FIRE RETARDANT TREATED GAUGE GAUVANIZED GAUGE GAUVANIZED GAUGE GAUVANIZED GAUGE GAUVANIZED GAUGE GAUVANIZED GAUGE GIULAM HORIZONTAL HORIZONTAL HORIZONTAL FORTONAL STEEL INTERNATIONAL BUILDING CODE INTERNATIONAL BUILDING CODE INTERNATIONAL CONFERENCE GIULDING OFFICIALS INSIDE DIAMETER INCH INTERIOR KIPS PER SQUARE FOOT KIPS PER SQUARE INCH	RET. REINF. REQ'D. REQ'MTS. SCHED. SCL SIM. SLRS S.O.G. SPEC. SQ. SSMA STD. STRUCT. SYM. THRU T&G THRU T&G THRU T&G THRU T&G THRU U.N.O. U.T. VERT. V.I.F. w/
DWG. ELEC. EL. EQ. EXIST., (E) EXP. EXT. FDN. FIN. FIR. FIR. FIR. FTG. FTG. GALV. GL HORIZ. HSS IBC ICBO I.D. INT. INT. K KSF KSI LB. L.L.	DRAWING ELECTRICAL ELEVATION ELEVATION EQUAL EQUAL EXISTING EXPANSION EXTERIOR FOUNDATION FINISH FLOOR FOOT FOOT FOOTING FOOTING FIRE RETARDANT TREATED GAUGE GALVANIZED GALVANIZED GALUAM HORIZONTAL HORIZONTAL HORLONFFRENCE INTERNATIONAL BUILDING CODE INSIDE DIAMETER INCH INTERIOR KIPS FINS PER SQUARE FOOT KIPS PER SQUARE INCH POUND LIVE LOAD	RET. REINF. REQ'D. REQ'MTS. SCHED. SCL SIM. SLRS S.O.G. SPEC. SQ. SSMA STD. STRUCT. SYM. THRU T&G TRANS. TJ TS TYP. U.N.O. U.T. VERT. V.I.F.
DWG. ELEC. EL. EQ. EXIST., (E) EXP. EXT. FDN. FIN. FIR. FIR. FT. FTG. FTG. GALV. GL HORIZ. HSS IBC ICBO I.D. INT. INT. K KSF KSI LB. L.L. LLH	DRAWINGELECTRICALELECATIONEQUALEQUALEXISTINGEXPANSIONEXTERIORFOUNDATIONFINISHFLOORFOOTGOUTINGFIRE RETARDANT TREATEDGAUGEGAUVANIZEDGULLAMHORIZONTALHORLOW STRUCTURAL STEELINTERNATIONAL BUILDING CODEINSIDE DIAMETERINCHINCHRINGKIPSKIPS PER SQUARE FOOTKIPS PER SQUARE INCHPOUNDLIVE LOADLONG LEG HORIZONTAL	RET. REINF. REQ'D. REQ'MTS. SCHED. SCL SIM. SLRS S.O.G. SPEC. SQ. SSMA STD. STRUCT. SYM. THRU T&G THRU T&G THRU T&G TLANS. U.N.O. U.T. V.I.F. W/ WF
DWG. ELEC. EL. EQ. EXIST., (E) EXP. EXT. FDN. FIN. FIR. FIR. FTG. FTG. GALV. GALV. GALV. GL HORIZ. HSS IBC ICBO I.D. I.N. INT. K KSF KSI LB. L.L. LUH LUV LOC. LONG.	DRAWINGELECTRICALELEVATIONEQUALEQUALEXISTINGEXPANSIONEXTERIORFOUNDATIONFINISHFLOORFOOTGOTINGGALVANIZEDGALVANIZEDGULLAMHORIZONTALHORIZONTALINSIDE DIAMETERINSIDE DIAMETERINCHKIPS PER SQUARE INCHFOUNDLIVE LOADLONG LEG HORIZONTALLONG LEG VERTICALLOCATIONLONGITUDINALLONG LEG VERTICALLONG ILED VERTICALLONG LEG VERTICALLONG LEG VERTICALLONGITUDINALLONGITUDINALLONGITUDINALLONGITUDINALLONGITUDINALLONGITUDINALLONGITUDINALLONGITUDINALLONGITUDINALLONGITUDINALLONGITUDINALLONGITUDINALLONGITUDINALLONGITUDINALLONGITUDINALLONGITUDINALLONGITUDINALLONGITUDINAL	RET. REINF. REQ'D. REQ'MTS. SCHED. SCL SIM. SLRS S.O.G. SPEC. SQ. SSMA STD. SSMA STD. STRUCT. SYM. 1HRU T&G TRANS. THRU 14. VI. VI. V. V. V. V. V. V. V. V. V. V
DWG. ELEC. EL. EQ. EXIST., (E) EXP. EXT. FDN. FIN. FIR. FIR. FT. FTG. FTG. GA. GALV. GL HORIZ. HSS IBC ICBO I.D. INT. K KSF KSI LB. LL. LUH LUV LOC.	DRAWINGELECTRICALELEVATIONEQUALEQUALEXISTINGEXPANSIONEXTERIORFOUNDATIONFINISHFLOORFOOTINGGAUGEGALVANIZEDGALUANHORIZONTALHOLLOW STRUCTURAL STEELINTERNATIONAL BUILDING CODEINTERNATIONAL BUILDING CODEINTERNATIONAL BUILDING CODEINTERNATIONAL FONFERENCESOTINGINTERIORINCHINCHINCHINCHINCHINTERIORKIPS PER SQUARE FOOTKIPS PER SQUARE INCHPOUNDLIVE LOADLONG LEG HORIZONTALLONG LEG VERTICALLONG LEG VERTICAL	RET. REINF. REQ'D. REQ'MTS. SCHED. SCL SIM. SLRS S.O.G. SPEC. SQ. SSMA STD. SSMA STD. STRUCT. SYM. THRU TARUS. THRU T&G TRANS. TJ TS TYP. U.N.O. U.T. VERT. V.I.F. W/ WF w/o W.P.

LAMINATED VENEER LUMBER BEAM MAXIMUM METAL BUILDING MANUFACTURERS ASSOCIATION MECHANICAL MANUFACTURER MINIMUM MISCELLANEOUS MILES PER HOUR MAGNETIC PARTICLE TESTING NEW NOT IN CONTRACT NAIL LAMINATED TIMBER NOMINAL NUMBER NOT TO SCALE ON CENTER OUTSIDE DIAMETER OPPOSITE ORIENTED STRAND LUMBER OPEN WEB JOIST POWDER ACTUATED FASTENER PARTITION PRECAST POUNDS PER CUBIC FOOT PERIMETER PLATE PARTIAL PENETRATION POUNDS PER SQUARE FOOT PARALLEL STRAND LUMBER POUNDS PER SQUARE INCH POST-TENSIONED PRESSURE TREATED POLYVINYL CHLORIDE RADIUS RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS REFERENCE RETURN REINFORCING REQUIRED REQUIREMENTS SCHEDULE SLIP CRITICAL STRUCTURAL COMPOSITE LUMBER SIMILAR SEISMIC LOAD RESISTING SYSTEM SLAB ON GRADE SPECIFICATION SQUARE STAINLESS STEEL STEEL STUD MANUFACTURERS ASSOCIATION STANDARD STRUCTURAL SYMMETRICAL THROUGH TONGUE AND GROOVE TRANSVERSE TRUSS JOIST LIGHT GAUGE TUBE STEEL TYPICAL UNLESS NOTED OTHERWISE ULTRASONIC TESTING VERTICAL VERIFY IN FIELD WITH WIDE FLANGE WITHOUT WORK POINT WELDING PROCEDURE SPECIFICATION WELDED WIRE FABRIC



GENERAL

STRUCTURAL DRAWINGS ARE A PORTION OF THE CONTRACT DOCUMENTS AND ARE COMPLEMENTARY TO THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING DRAWINGS, THE SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE REQUIREMENTS FROM THE CONTRACT DOCUMENTS INTO THEIR SHOP DRAWINGS AND WORK. AS REQUIRED BY THE GENERAL CONDITIONS, THE CONTRACTOR SHALL PROMPTLY REPORT TO THE ARCHITECT ANY ERRORS, INCONSISTENCIES, OR OMISSIONS IN THE CONTRACT DOCUMENTS DISCOVERED BY OR MADE KNOWN TO THE CONTRACTOR.

THESE GENERAL STRUCTURAL NOTES SUPPLEMENT THE PROJECT SPECIFICATIONS. REFER TO THE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. NOTES AND DETAILS ON THE STRUCTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER THE GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.

CODE REQUIREMENTS:

CONFORM TO THE INTERNATIONAL EXISTING BUILDING CODE (IEBC) 2018 AS AMENDED BY THE 2019 OSSC USING ASCE 41-17 (SEISMIC EVALUATION AND RETROFIT OF EXISTING BUILDINGS).

TEMPORARY CONDITIONS:

THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES.

CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD.

EXCAVATIONS SHALL NOT REDUCE THE VERTICAL OR LATERAL SUPPORT FOR ANY FOUNDATION OF THIS PROJECT OR ANY ADJACENT STRUCTURE WITHOUT FIRST UNDERPINNING OR PROTECTING THE FOUNDATION AGAINST DETRIMENTAL LATERAL AND/OR VERTICAL MOVEMENT. REF. SUBMITTALS SECTION FOR CONTRACTOR'S DELEGATED DESIGN RESPONSIBILITY WHERE SUCH SUPPORT IS REQUIRED.

EXISTING CONDITIONS:

ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS SHALL BE FIELD VERIFIED. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY SIGNIFICANT DISCREPANCIES FROM CONDITIONS SHOWN ON THE DRAWINGS.

ASSUMED FUTURE CONSTRUCTION: VERTICAL: NONE

HORIZONTAL: NONE

DESIGN CRITERIA

DESIGN WAS BASED ON THE STRENGTH AND DEFLECTION CRITERIA OF THE OSSC. IN ADDITION TO THE DEAD LOADS, THE FOLLOWING LOADS AND ALLOWABLES WERE USED FOR DESIGN, WITH LIVE LOADS (L.L.) REDUCED PER OSSC:

(GRAVITY SYSTEM CRITERIA	
OCCUPANCY OR USE	UNIFORM LOAD	CONCENTRATED LOAD
OFFICES	50 PSF L.L. + 15 PSF PARTITIONS, OR 80 PSF L.L. (INCLUDING PARTITIONS) WHICHEVER IS MORE CRITICAL FOR MEMBER DESIGN	2,000 LBS.
CORRIDORS AND STAIRS	100 PSF L.L.	2,000 LBS. (300 LBS. AT STAIRS)
ASSEMBLY AREAS, RETAIL	100 PSF L.L.	2,000 LBS.
	40 PSF L.L. + 15 PSF FOR PARTITIONS	
ROOF LIVE LOAD	20 PSF L.L. (ALSO SEE SNO	W LOAD CRITERIA BELOW)
NOTES:	 LIVE LOADS REDUCED PER OSSC. MEMBERS DESIGNED FOR MORE CF CONCENTRATED LOAD. 	RITICAL OF UNIFORM OR
	SNOW CRITERIA	
DESIGN ROOF SNOW LOAD	27 PSF MINIMUM IN ACC	
SNOW DRIFT	PER OSSC AS SH	
GROUND SNOW LOAD	Pg= 1 IN ACCORDANCE WI	
FLAT ROOF SNOW LOAD	Pf = 9	¥
SNOW EXPOSURE FACTOR	Ce =	
SNOW LOAD IMPORTANCE FACTOR	ls =	1.1
THERMAL FACTOR	Ct =	1.0
	GEOTECHNICAL CRITERIA	
DESIGN BASED ON REPORT BY:	GEODESIGN, INC. DAT	ED OCTOBER 1, 2019
ALLOWABLE SOIL PRESSURE:		,
ON GRANULAR PADS TO BEDROCK	2,500	PSF
SHORT TERM LOADING	1/3 INC	REASE
	WIND CRITERIA	
RISK CATEGORY	Ι	I
MAIN WIND FORCE RESISTING SYSTEM	V = 103 MPH BASIC DESIGN W	ND SPEED (3-SECOND GUST)
COMPONENTS AND CLADDING	V = 103 MPH BASIC DESIGN W	ND SPEED (3-SECOND GUST)
EXPOSURE CATEGORY	E	
GUST / INTERNAL PRESSURE	GCpi =	+/- 0.18
A	SCE 41-17 SEISMIC CRITERIA	
RISK CATEGORY	IV (MAIN E	UILDING)
BPOE FOR 75%BSE-1N	IMMEDIATE OCCUPANCY	
BPOE FOR BSE-2E	LIFE SAFETY, HA	ZARD REDUCED
RISK CATEGORY	III (SECTOR M	
BPOE FOR 75%BSE-1N	DAMAGE CONTROL, F	
BPOE FOR BSE-2E	LIMITED SAFETY, H	
SITE CLASS		
		4 N I
	MIC HAZARD LEVEL 75% BSE-	
DESIGN SPECTRAL ACCELERATION	SXS = 0.508g	SX1 = 0.359g
DESIGN SPECTRAL ACCELERATION	SXS = 0.508g EQUIVALENT LATERAL FORCE	SX1 = 0.359g PER ASCE 41-17 CHAPTER 3
DESIGN SPECTRAL ACCELERATION ANALYSIS PROCEDURE	SXS = 0.508g EQUIVALENT LATERAL FORCE X DIRECTION (E / W)	SX1 = 0.359g EPER ASCE 41-17 CHAPTER 3 Y DIRECTION (N / S)
DESIGN SPECTRAL ACCELERATION ANALYSIS PROCEDURE PSEUDO LATERAL FORCE COEFFICIENT	SXS = 0.508g EQUIVALENT LATERAL FORCE X DIRECTION (E / W) C1C2C	SX1 = 0.359g E PER ASCE 41-17 CHAPTER 3 Y DIRECTION (N / S) M = 1.4
DESIGN SPECTRAL ACCELERATION ANALYSIS PROCEDURE PSEUDO LATERAL FORCE COEFFICIENT SPECTRAL RESPONSE ACCELERATION	SXS = 0.508g EQUIVALENT LATERAL FORCE X DIRECTION (E / W)	SX1 = 0.359g E PER ASCE 41-17 CHAPTER 3 Y DIRECTION (N / S) M = 1.4
DESIGN SPECTRAL ACCELERATION ANALYSIS PROCEDURE PSEUDO LATERAL FORCE COEFFICIENT SPECTRAL RESPONSE ACCELERATION PSEUDO LATERAL FORCE	SXS = 0.508g EQUIVALENT LATERAL FORCE X DIRECTION (E / W) C1C2CI Sa = 0	SX1 = 0.359g PER ASCE 41-17 CHAPTER 3 Y DIRECTION (N / S) M = 1.4 .508g XXX KIPS
DESIGN SPECTRAL ACCELERATION ANALYSIS PROCEDURE PSEUDO LATERAL FORCE COEFFICIENT SPECTRAL RESPONSE ACCELERATION PSEUDO LATERAL FORCE SE	SXS = 0.508g EQUIVALENT LATERAL FORCE X DIRECTION (E / W) C1C2CI Sa = 0 XXX KIPS	SX1 = 0.359g PER ASCE 41-17 CHAPTER 3 Y DIRECTION (N / S) M = 1.4 .508g XXX KIPS
DESIGN SPECTRAL ACCELERATION ANALYSIS PROCEDURE PSEUDO LATERAL FORCE COEFFICIENT SPECTRAL RESPONSE ACCELERATION PSEUDO LATERAL FORCE SE MCE SPECTRAL ACCELERATION	SXS = 0.508g EQUIVALENT LATERAL FORCE X DIRECTION (E / W) C1C2CI Sa = 0 XXX KIPS ISMIC HAZARD LEVEL BSE-2E	SX1 = 0.359g PER ASCE 41-17 CHAPTER 3 Y DIRECTION (N / S) M = 1.4 .508g XXX KIPS
DESIGN SPECTRAL ACCELERATION ANALYSIS PROCEDURE PSEUDO LATERAL FORCE COEFFICIENT SPECTRAL RESPONSE ACCELERATION PSEUDO LATERAL FORCE SE MCE SPECTRAL ACCELERATION SITE COEFFICIENT	SXS = 0.508g EQUIVALENT LATERAL FORCE X DIRECTION (E / W) C1C2CI Sa = 0 XXX KIPS ISMIC HAZARD LEVEL BSE-2E Ss = 0.616g Fa = 1.307	SX1 = 0.359g PER ASCE 41-17 CHAPTER 3 Y DIRECTION (N / S) M = 1.4 .508g XXX KIPS S1 = 0.264g Fv = 2.072
DESIGN SPECTRAL ACCELERATION ANALYSIS PROCEDURE PSEUDO LATERAL FORCE COEFFICIENT SPECTRAL RESPONSE ACCELERATION PSEUDO LATERAL FORCE SE MCE SPECTRAL ACCELERATION SITE COEFFICIENT DESIGN SPECTRAL ACCELERATION	SXS = 0.508g EQUIVALENT LATERAL FORCE X DIRECTION (E / W) C1C2CI Sa = 0 XXX KIPS ISMIC HAZARD LEVEL BSE-2E Ss = 0.616g Fa = 1.307 SXS = 0.805g	SX1 = 0.359g PER ASCE 41-17 CHAPTER 3 Y DIRECTION (N / S) M = 1.4 .508g XXX KIPS S1 = 0.264g Fv = 2.072 SX1 = 0.547g
DESIGN SPECTRAL ACCELERATION ANALYSIS PROCEDURE PSEUDO LATERAL FORCE COEFFICIENT SPECTRAL RESPONSE ACCELERATION PSEUDO LATERAL FORCE SE MCE SPECTRAL ACCELERATION SITE COEFFICIENT DESIGN SPECTRAL ACCELERATION	SXS = 0.508g EQUIVALENT LATERAL FORCE X DIRECTION (E / W) C1C2C Sa = 0 XXX KIPS ISMIC HAZARD LEVEL BSE-2E Ss = 0.616g Fa = 1.307 SXS = 0.805g EQUIVALENT LATERAL FORCE	SX1 = 0.359g PER ASCE 41-17 CHAPTER 3 Y DIRECTION (N / S) M = 1.4 .508g XXX KIPS S1 = 0.264g Fv = 2.072 SX1 = 0.547g PER ASCE 41-17 CHAPTER 3
DESIGN SPECTRAL ACCELERATION ANALYSIS PROCEDURE PSEUDO LATERAL FORCE COEFFICIENT SPECTRAL RESPONSE ACCELERATION PSEUDO LATERAL FORCE SE MCE SPECTRAL ACCELERATION SITE COEFFICIENT DESIGN SPECTRAL ACCELERATION ANALYSIS PROCEDURE	SXS = 0.508g EQUIVALENT LATERAL FORCE X DIRECTION (E / W) C1C2CI Sa = 0 XXX KIPS ISMIC HAZARD LEVEL BSE-2E Ss = 0.616g Fa = 1.307 SXS = 0.805g EQUIVALENT LATERAL FORCE X DIRECTION (E / W)	SX1 = 0.359g PER ASCE 41-17 CHAPTER 3 Y DIRECTION (N / S) M = 1.4 .508g XXX KIPS S1 = 0.264g Fv = 2.072 SX1 = 0.547g PER ASCE 41-17 CHAPTER 3 Y DIRECTION (N / S)
DESIGN SPECTRAL ACCELERATION ANALYSIS PROCEDURE PSEUDO LATERAL FORCE COEFFICIENT SPECTRAL RESPONSE ACCELERATION PSEUDO LATERAL FORCE	SXS = 0.508g EQUIVALENT LATERAL FORCE X DIRECTION (E / W) C1C2C Sa = 0 XXX KIPS ISMIC HAZARD LEVEL BSE-2E Ss = 0.616g Fa = 1.307 SXS = 0.805g EQUIVALENT LATERAL FORCE	SX1 = 0.359g E PER ASCE 41-17 CHAPTER 3 Y DIRECTION (N / S) M = 1.4 .508g XXX KIPS S1 = 0.264g Fv = 2.072 SX1 = 0.547g E PER ASCE 41-17 CHAPTER 3 Y DIRECTION (N / S) M = 1.4

SEISMIC FORCE-RESISTING SYSTEM

THE SEISMIC FORCE-RESISTING SYSTEM (SFRS) FOR THE COMPLETED STRUCTURE IS AS FOLLOWS:

MAIN SCHOOL BUILDING: COMBINATION OF CONCRETE SHEAR WALLS, MASONRY SHEAR WALLS AND PLYWOOD SHEATHED WOOD SHEAR WALLS WITH A PLYWOOD SHEATHED ROOF DIAPHRAGM AND STRIP FOOTINGS

SECTOR M CLASSROOM WING: PLYWOOD SHEATHED WOOD SHEAR WALLS WITH PLYWOOD SHEATHED FLOOR AND ROOF DIAPHRAGMS AND STRIP FOOTINGS AROUND THE PERIMETER WITH PAD FOOTINGS IN THE CRAWL SPACE.

REFERENCE SHEETS REFERENCE PLANS FOR ADDITIONAL SFRS COMPONENTS AND DETAILS.

REFER TO THE GENERAL STRUCTURAL NOTES AND PROJECT SPECIFICATIONS FOR DETAILING, INSTALLATION, TESTING AND INSPECTION REQUIREMENTS FOR MEMBERS THAT ARE PART OF THE SFRS.

STRUCTURAL OBSERVATIONS

THE STRUCTURAL ENGINEER OF RECORD (SEOR) WILL PERFORM STRUCTURAL OBSERVATIONS BASED ON THE REQUIREMENTS OF THE OSSC AT THE STAGES OF CONSTRUCTION LISTED BELOW. CONTRACTOR SHALL PROVIDE SUFFICIENT ADVANCED NOTICE AND ACCESS FOR THE SEOR TO PERFORM THESE OBSERVATIONS.

ITEM	COMMENTS
PRIOR TO FIRST CONCRETE POUR	AFTER REBAR PLACEMENT
AS REQUIRED TO ADDRESS STRUCTURAL ISSUES	

A FIELD REPORT WILL BE SUBMITTED TO THE BUILDING DEPARTMENT FOLLOWING EACH SITE VISIT.

STRUCTURAL OBSERVATION IS FOR THE GENERAL CONFORMANCE OF THE STRUCTURAL DRAWINGS AND DOES NOT ALLEVIATE ANY SPECIAL INSPECTION REQUIREMENTS.

SUBMIT SHOP DRAWINGS AND OTHER SUBMITTALS TO THE ARCHITECT AND ENGINEER PRIOR TO FABRICATION AND CONSTRUCTION OF STRUCTURAL ITEMS. IF THE SUBMITTALS DIFFER FROM OR ADD TO THE STRUCTURAL CONTRACT DOCUMENTS, THEY SHALL BEAR THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF OREGON. ANY CHANGES TO THE STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT AND ARE SUBJECT TO REVIEW AND ACCEPTANCE BY THE SEOR.

FIELD ENGINEERED DETAILS DEVELOPED BY THE CONTRACTOR THAT DIFFER FROM OR ADD TO THE STRUCTURAL DRAWINGS SHALL BEAR THE SEAL AND SIGNATURE OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF OREGON AND SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO CONSTRUCTION.

THE USE OF REPRODUCTIONS OR PHOTOCOPIES OF THE CONTRACT DRAWINGS SHALL NOT BE PERMITTED. WHEN CAD OR REVIT FILES ARE PROVIDED TO THE CONTRACTOR OR SUBCONTRACTORS, IT IS THE RESPONSIBILITY OF THE CONTRACTOR/SUBCONTRACTOR TO REMOVE ALL INFORMATION NOT DIRECTLY RELEVANT TO THE SCOPE OF THE SUBMITTAL AS WELL AS ALL REFERENCES TO OUTSIDE SOURCE FILES.

DELEGATED DESIGN SUBMITTALS SHALL INCLUDE DESIGN DRAWINGS AND CALCULATIONS FOR ITEMS THAT ARE DESIGNED BY OTHERS. DELEGATED DESIGN SUBMITTALS SHALL BEAR THE SEAL AND SIGNATURE OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF OREGON ON EVERY DRAWING SHEET AND ON THE CALCULATION COVER SHEET, AND SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER PRIOR TO FABRICATION. CALCULATIONS SHALL BE INCLUDED FOR ALL CONNECTIONS TO THE STRUCTURE, CONSIDERING LOCALIZED EFFECTS ON STRUCTURAL ELEMENTS. DESIGN SHALL BE BASED ON THE REQUIREMENTS OF THE OSSC AND AS NOTED UNDER "DESIGN CRITERIA".

SUBMITTALS AND DELEGATED DESIGN SUBMITTALS SHALL INCLUDE THE FOLLOWING:

ITEM	SUBMITTAL	DELEGATED DESIGN SUBMITTAL	COMMENTS
FOUNDATION EXCAVATION AND UNDERPINNING		Х	REF. TABLE NOTE 2
CONCRETE MIX DESIGNS	Х		
CONCRETE REINFORCEMENT	Х		
CONCRETE ANCHORAGES	Х		
EMBEDDED STEEL ITEMS	Х		
STRUCTURAL STEEL	Х		
STEEL WELDING PROCEDURES	Х		
STRUCTURAL COLD FORMED METAL FRAMING	Х		
STEEL FASTENERS	Х		
WINDOW WALL AND OTHER CLADDING AND GLAZING		Х	
SYSTEMS		^	
ROOF TIE-OFF ANCHORS	Х		
MEP EQUIPMENT ANCHORAGE AND BRACING		Х	REF. TABLE NOTE 1

TABLE NOTES: SECTION 13.2.

CONTRACTOR SHALL ENGAGE A PROFESSIONAL ENGINEER TO PREPARE AN ASSESSMENT OF ANY EXCAVATIONS THAT MAY REDUCE THE VERTICAL OR LATERAL SUPPORT OF AN EXISTING FOUNDATION AS REQUIRED BY OSSC SECTION 1803.5.7. THE ASSESSMENT SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT AND SHALL INCLUDE DETAILS AND SEQUENCING FOR CONSTRUCTION OF ANY UNDERPINNING OR BRACING THAT IS REQUIRED.

MIX ID	
В	INTERIOF
E	SPRE
<u>TABLE N</u> 1.	<u>OTES:</u> VERIFY WATER-CE FLOORS WITH MO
2. 3.	ESTABLISH WATER REFERENCE SLAB
3. 4.	POST-TENSIONED WEIGHT OF CEMEI
F	DEE ACI 210 14 TA

5.	REF. ACI 318-14 TA
6.	EXPOSURE CATEG
7.	EXPOSURE CATEG
8.	EXPOSURE CATEG
9.	EXPOSURE CATEG
	AS MARINE ENVIRO

PORTLAND CEMENT CONTENT MAY BE REPLACED WITH FLY ASH CONFORMING TO ASTM C618 (INCLUDING TABLE 2A) TYPE F OR TYPE C, SLAG CEMENT CONFORMING TO ASTM C989, AND SILICA FUME CONFORMING TO ASTM C1240 PROVIDED THAT THE MIX STRENGTH IS SUBSTANTIATED BY TEST DATA.

FOR MIX DESIGNS WITH fc = 5,000 PSI OR LESS, SLAG CEMENT MAY BE SUBSTITUTED FOR FLY ASH AT A 1:1 RATIO WITHOUT TEST DATA. WHEN SLAG CEMENT IS SUBSTITUTED IN HIGHER STRENGTH MIXES OR AT A DIFFERENT RATIO, THE MIX STRENGTH MUST BE SUBSTANTIATED BY TEST DATA.

ALL CONCRETE SUBJECT TO EXPOSURE CLASSES F1, F2 OR F3 SHALL BE AIR ENTRAINED. AIR-ENTRAINING AGENTS SHALL CONFORM TO ASTM C260. THE AMOUNT OF ENTRAINED AIR SHALL BE ACCORDING TO ACI 318-14 TABLE 19.3.3.1 AS INDICATED BELOW WITH A FIELD TOLERANCE OF ± 1.5 PERCENT BY VOLUME. THE AMOUNT OF ENTRAINED AIR SHALL BE MEASURED IN THE FIELD AT THE DISCHARGE FROM THE TRUCK.

MAX. AGGREGATE SIZ
3/8"
1/2"
3/4"
1"

THAT THE SLUMP DOES NOT EXCEED 10".

THE CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS ALONG WITH TEST DATA COMPLIANT WITH ACI 301-16 AND ACI 318-14 A MINIMUM OF TWO WEEKS PRIOR TO PLACING CONCRETE. NO WATER MAY BE ADDED TO CONCRETE IN THE FIELD UNLESS SPECIFICALLY APPROVED IN WRITING BY THE CONCRETE SUPPLIER IN CONJUNCTION WITH THE CONCRETE MIX DESIGN.

GENERAL STRUCTURAL NOTES

SPECIAL INSPECTIONS AND TESTING

SPECIAL INSPECTION WILL BE PROVIDED BY THE OWNER BASED ON THE REQUIREMENTS OF THE OSSC AS SUMMARIZED IN THE SPECIAL INSPECTION AND TESTING PROGRAM ON SHEETS S00X-S00X. CONTRACTOR SHALL PROVIDE SUFFICIENT NOTICE AND ACCESS FOR THE SPECIAL INSPECTOR TO PERFORM THESE INSPECTIONS.

SUBMITTALS

THE CONTRACTOR SHALL COORDINATE SEISMIC RESTRAINTS OF MECHANICAL, PLUMBING, AND ELECTRICAL EQUIPMENT, MACHINERY, AND ASSOCIATED PIPING WITH THE STRUCTURE, CONNECTIONS TO STRUCTURE SHALL CONFORM TO ASCE 7-16 CHAPTER 13, BE DESIGNED BY AN ENGINEER REGISTERED IN THE STATE OF OREGON. AND SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO FABRICATION. FOR RISK CATEGORY III AND IV BUILDINGS, THE SYSTEMS ENGINEER SHALL SPECIFY THE REQUIREMENTS FOR EQUIPMENT SEISMIC CERTIFICATION IN THE DEFERRED SUBMITTAL IN ACCORDANCE WITH OSSC SECTION 1705.12.6 AND ASCE 7-16

CONCRETE MIX DESIGNS

CONCRETE WORK SHALL CONFORM TO CHAPTER 19 OF THE OSSC. CONCRETE STRENGTHS SHALL BE VERIFIED BY STANDARD CYLINDER TESTS PER ASTM C39. CONCRETE MIX TO BE DESIGNED AND PROPORTIONED BY THE CONTRACTOR IN ACCORDANCE WITH ACI 318-14 CHAPTER 26, ACI 301-16 CHAPTER 4 AND THE FOLLOWING INFORMATION:

USE	f'c (PSI)	TEST AGE (DAYS)	MAX. W/CM RATIO (NOTE 1 & 2)	MAX. AGG. SIZE	Ш	EXPO CLA	SURI ASS	E	
OR SLABS ON GRADE	4,000	28	N/A	1"	F0	S0	W0	C0	•
READ FOOTINGS	3,500	28	0.55	1"	F1	S0	W0	C0	

EMENTITIOUS MATERIAL RATIO WITH FLOOR COVERING MANUFACTURER FOR CONCRETE STURE SENSITIVE FLOOR COVERINGS

R-CEMENTITIOUS MATERIAL RATIO PER ACI 301-16 CHAPTER 4. 3S EXPOSED TO VIEW GENERAL NOTES FOR ADDITIONAL MIX REQUIREMENTS.

OR PRESTRESSED CONCRETE SHALL NOT CONTAIN MORE THAN 0.06% CHLORIDE IONS BY ABLE 19.3.2.1 FOR ADDITIONAL MIX REQUIREMENTS SPECIFIC TO EXPOSURE CLASS.

GORY "F" APPLIES TO LEVEL OF FREEZE THAW EXPOSURE. GORY "S" APPLIES TO LEVEL OF SULFATE EXPOSURE.

GORY "W" APPLIES TO REQUIRED LEVEL OF PERMEABILITY. SORY "C" APPLIES TO CORROSIVE LOCATIONS - INCLUDING SURROUNDING ENVIRONMENT (SUCH ONMENT) AND CORROSIVE SOILS.

CONCRETE MIX AIR CONTENT			
ZE	CONCRETE SUBJECT TO FREEZE/THAW (EXPOSURE CLASS F1)	CONCRETE SUBJECT TO CONT. MOISTURE AND/OR DEICING CHEMICALS (EXPOSURE CLASS F2 AND F3)	
	6.0%	7.5%	
	5.5%	7.0%	
	5.0%	6.0%	
	4.5%	6.0%	

A WATER-REDUCING ADMIXTURE CONFORMING TO ASTM C494 USED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS SHALL BE INCORPORATED IN CONCRETE MIX DESIGNS. A HIGH-RANGE WATER-REDUCING (HRWR) ADMIXTURE CONFORMING TO ASTM C494 TYPE F OR G MAY BE USED IN CONCRETE MIXES PROVIDING

CONCRETE REINFORCING STEEL

CONCRETE REINFORCEMENT SHALL BE AS LISTED BELOW. ASTM A615 REINFORCEMENT MAY BE SUBSTITUTED FOR ASTM A706 REINFORCEMENT PROVIDED THAT THE ACTUAL YIELD STRENGTH BASED ON MILL TESTS DOES NOT EXCEED Fy BY MORE THAN 18,000 PSI AND THE RATIO OF ACTUAL TENSILE STRENGTH TO ACTUAL YIELD STRENGTH IS NOT LESS THAN 1.25 AND THE ELONGATION REQUIREMENTS OF ASTM A706 ARE MET PER ACI 318-14 SECTION 20.2.2.5. MILL TESTS CERTIFICATIONS FOR SUBSTITUTED BARS SHALL BE SUBMITTED TO THE SPECIAL INSPECTOR AND SEOR PRIOR TO PLACEMENT.

USE	ТҮРЕ	MATERIAL
ELEVATED SLABS, SLABS-ON-GRADE AND	DEFORMED BARS	ASTM A706 GRADE 60 OR ASTM A615 GRADE 60
SLABS-ON-METAL DECK	SMOOTH WELDED WIRE FABRIC (WWF)	ASTM A1064
FOUNDATIONS	ALL	ASTM A706 GRADE 60 OR ASTM A615 GRADE 60

ALL REINFORCING STEEL SHALL BE SECURELY TIED IN PLACE WITH #16 ANNEALED IRON WIRE. BARS IN BEAMS AND SLABS SHALL BE SUPPORTED ON WELL-CURED CONCRETE BLOCKS OR APPROVED METAL OR PLASTIC CHAIRS, AS SPECIFIED BY THE CRSI MANUAL OF STANDARD PRACTICE, MSP-1. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH ACI 315, "ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES". SHOP DRAWINGS SHALL INCLUDE ELEVATIONS OF ALL BEAMS, WALLS AND COLUMNS SHOWING BAR LOCATIONS.

REINFORCING BARS SHALL NOT BE BENT OR STRAIGHTENED IN THE FIELD WITHOUT APPROVAL OF THE SEOR. PREHEATING METHODS SHALL BE SUBMITTED TO THE SEOR FOR APPROVAL PRIOR TO BENDING OF BARS #6 OR LARGER.

LAP ALL REINFORCING BARS PER THE TYPICAL LAP SPLICE LENGTH SCHEDULES, EXCEPT AS NOTED ON DRAWINGS. USE LAP LENGTH FOR SMALLER BAR WHEN SPLICING DIFFERENT BAR SIZES. BARS SPLICED WITH NONCONTACT LAPS SHALL BE SPACED NO FARTHER THAN 1/5TH THE LAP LENGTH OR 6 INCHES. MECHANICAL SPLICES NOTED ON THE PLANS SHALL BE DAYTON SUPERIOR BAR-LOCK OR TAPER-LOCK COUPLERS (UES ER-319) OR APPROVED EQUAL WITH A CURRENT EVALUATION REPORT.

TYP. SLAB LAP SPLICE LENGTH SCHEDULE (IN.) - 60 KSI					
DAD	SLAB BOTTOM BARS		SLAB TO	OP BARS	
BAR SIZE	3,000 PSI	4,000 PSI	3,000 PSI	4,000 PSI	
#3	18	16	24	20	
#4	30	26	38	34	
#5	36	32	48	42	
#6	44	38	56	50	
#7	70	60	90	78	
TYP. FOUNDATION LAP SPLICE LENGTH SCHEDULE (IN.) - 60 KSI					

BAR	BOTTO	M BARS	TOP BARS		
SIZE	3,000 PSI	4,000 PSI	3,000 PSI	4,000 PSI	
#3	18	14	22	20	
#4	22	20	28	26	
#5	28	24	36	32	
#6	34	28	42	38	
#7	48	42	62	54	

TABLE NOTES:

- MINIMUM LAP SPLICES NOTED ARE FOR MEMBERS THAT ARE NOT PART OF THE SFRS. FOR REBAR LAPS SPLICES AT SFRS ELEMENTS, REFERENCE PLANS AND ELEVATIONS.
- 2. ASTM A615 OR ASTM A706, GRADE 60 DEFORMED REINFORCING BARS 3. MINIMUM CLEAR COVER AND BAR SPACING TO BE PROVIDED.
- 4. NORMAL WEIGHT CONCRETE. FOR LIGHT-WEIGHT CONCRETE MULTIPLY TABLE VALUES BY 1.3. UNCOATED BARS, FOR EPOXY-COATED BARS MULTIPLY TABLE VALUES BY 1.5.
- 6. COMBINATIONS OF EFFECTS DUE TO CONCRETE STRENGTH, CONCRETE WEIGHT, AND EPOXY COATING ARE CUMULATIVE.
- 2. SLAB, FOUNDATION AND MAT TOP BARS ARE BARS CAST ABOVE MORE THAN 12" OF FRESH CONCRETE. ALL OTHER SLAB BARS MAY BE CONSIDERED BOTTOM BARS.

REINFORCING STEEL SHALL HAVE PROTECTION AS FOLLOWS:

CONCRETE COVER				
USE	CLEAR COVER			
EXPOSED TO EARTH OR WEATHER	1-1/2" (#5 AND SMALLER) 2" (#6 AND LARGER)			
CONCRETE CAST AGAINST AND EXPOSED TO EARTH	3"			

CONCRETE REINFORCING DETAILS

CONTINUE HORIZONTAL WALL BARS THROUGH PILASTERS, COLUMNS AND INTERSECTING WALLS. AT SLAB AND WALL OPENINGS PROVIDE A MINIMUM OF TWO #5 BARS OVER, UNDER AND AT THE SIDES OF THE OPENINGS. EXTEND THESE BARS LAP DISTANCE OR A MINIMUM OF 2'-0" PAST THE OPENING. PROVIDE ONE #5x4'-0" FOR SINGLE-LAYER REINFORCING AND ONE #5x4'-0" EACH FACE FOR DOUBLE-LAYER REINFORCING PLACED DIAGONALLY AT EACH CORNER OF ALL OPENINGS. REFER TO TYPICAL DETAILS FOR DISPOSITION OF CORNER BARS AND BARS IN SMALL WALL SECTIONS. SLAB BARS SHALL BE HOOKED INTO WALLS, OR HOOKED DOWELS SHALL BE PROVIDED TO MATCH SLAB REINFORCING. PROVIDE (2) #4x4'-0" PLACED DIAGONALLY AT EACH RE-ENTRANT CORNER IN SLABS. PROVIDE HOOKED DOWELS FROM FOOTINGS TO MATCH VERTICAL WALL REINFORCING, UNLESS NOTED OTHERWISE. SHOP DRAWINGS SHALL INCLUDE ALL SPECIAL REINFORCEMENT LISTED ABOVE.

CONCRETE EMBEDMENTS

HEADED SHEAR STUDS SHALL BE NELSON HEADED ANCHORS WITH FLUXED ENDS (ICC ESR-2856) OR APPROVED ALTERNATE. DEFORMED BAR ANCHORS (DBA) UP TO #6 BAR SHALL BE NELSON D6L A706 STUD WELDABLE REBAR, OR APPROVED ALTERNATE. STUDS AND DBA SHALL BE AUTOMATICALLY END-WELDED WITH THE MANUFACTURER'S STANDARD EQUIPMENT IN ACCORDANCE WITH THEIR RECOMMENDATIONS. REINFORCING STEEL SHALL BE WELDED TO STEEL PLATE OR SECTIONS WITH A CJP WELD OR ALL AROUND FILLET WELD AS INDICATED BELOW:

TYP. REINFORCING STEEL WELDING SCHEDULE					
BAR SIZE FILLET WELD SIZE (IN.) MIN. PLATE THICKNESS (IN.)					
#3	1/4	1/4			
#4	5/16	1/4			
#5	3/8	1/4			
#6	7/16	5/16			
#7	1/2	3/8			

1. ALL WELDED REBAR TO BE ASTM A706 GRADE 60. 2. ALL AROUND FILLET WELD USING E70 ELECTRODE OR PROVIDE CJP AT CONTRACTOR'S OPTION. 3. BARS TO BE ORIENTATED PERPENDICULAR TO PLATE.

4. PLATE TO BE GRADE 36 MINIMUM. CAST-IN-PLACE ANCHOR BOLTS SHALL BE HEADED BOLTS CONFORMING TO ASTM F1554 GRADE 55, MEETING SUPPLEMENTAL REQUIREMENT S1 (WELDABLE) U.N.O.

NO LOADS OR WELDS SHALL BE PLACED ON EMBEDDED PLATES OR ANGLES FOR MINIMUM OF 7 DAYS AFTER CASTING.

SLEEVES, OPENINGS, CONDUIT, AND OTHER EMBEDDED ITEMS NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER BEFORE PLACING CONCRETE. CONDUITS EMBEDDED IN SLABS SHALL NOT BE LARGER IN OUTSIDE DIMENSION THAN ONE THIRD OF THE THICKNESS OF THE SLAB AND SHALL NOT BE SPACED CLOSER THAN THREE DIAMETERS ON CENTER.

VERIFY ALL BLOCK OUTS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING REQUIREMENTS.

DULE	(IN.)	- 60	KSI

POST-INSTALLED CONCRETE ANCHORS

POST-INSTALLED CONCRETE ANCHORS SHALL BE THE FOLLOWING PRODUCTS, U.N.O.:	

ТҮРЕ	APPROVED ANCHORS
EXPANSION	SIMPSON STRONG-BOLT 2 (ICC ESR-3037)
CONCRETE SCREW	SIMPSON TITEN HD (ICC ESR-2713)
ADHESIVE ANCHORS	SIMPSON SET-XP (ICC ESR-2508)

ANCHORS SHALL BE INSTALLED IN STRICT CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND PRODUCT EVALUATION REPORTS. EMBEDMENTS SPECIFIED ON DRAWINGS ARE "EFFECTIVE" EMBEDMENTS. REFERENCE MANUFACTURER LITERATURE FOR CORRESPONDING ACTUAL EMBEDMENT DEPTHS. DO NOT CUT REINFORCING IN NEW OR EXISTING CONCRETE DURING INSTALLATION.

REQUESTS FOR ANCHOR SUBSTITUTIONS SHALL BE SUBMITTED TO THE SEOR IN WRITING ALONG WITH EVIDENCE OF EQUAL OR GREATER CAPACITY TO THE SPECIFIED CONNECTION.

INSTALLATION OF ADHESIVE ANCHORS HORIZONTALLY OR UPWARDLY INCLINED SHALL BE PERFORMED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER AS CERTIFIED THROUGH ACI/CRSI AND IN ACCORDANCE WITH ACI 318-14 SECTION 17.8.2.2. PROOF OF CURRENT CERTIFICATION SHALL BE SUBMITTED TO THE SEOR PRIOR TO INSTALLATION.

ALL-THREAD ROD FOR ADHESIVE ANCHORS SHALL CONFORM TO ASTM F1554 GRADE 55, U.N.O. ANCHORS EXPOSED TO EARTH OR WEATHER SHALL BE PROTECTED FROM CORROSION BY HOT-DIP GALVANIZING OR USE OF STAINLESS STEEL PERMANENTLY EXPOSED EMBEDDED PLATES AND ANGLES SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION, U.N.O.

NO LOADS OR WELDS SHALL BE PLACED ON EMBEDDED PLATES OR ANGLES FOR A MINIMUM OF 7 DAYS AFTER CASTING. ADHESIVE ANCHORS SHALL NOT BE INSTALLED FOR A MINIMUM OF 21 DAYS AFTER CASTING CONCRETE IN ACCORDANCE WITH ACI 318-14 SECTION 17.1.2.

MASONRY ACCESSORIES

CAST-IN-PLACE ANCHOR BOLTS SHALL BE HEADED BOLTS CONFORMING TO ASTM F1554 GRADE 36 U.N.O.

POST INSTALLED ANCHORS SHALL BE INSTALLED IN STRICT CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS. REINFORCING IN NEW OR EXISTING MASONRY SHALL NOT BE CUT DURING INSTALLATION. ALL ANCHORS EXPOSED TO EARTH OR WEATHER SHALL BE PROTECTED FROM CORROSION BY HOT-DIP GALVANIZING OR USE OF STAINLESS STEEL. ALL THREAD ROD FOR EPOXY ANCHORS SHALL CONFORM TO ASTM F1554 GRADE 36, U.N.O.

POST-INSTALLED MASONRY ANCHORS							
TYPE APPROVED ANCHORS							
EXPANSION	SIMPSON WEDGE-ALL (ICC ESR-1396)						
SCREW	SIMPSON TITEN HD (ICC ESR-1056)						
EPOXY ADHESIVE	SIMPSON SET-XP (IAPMO ER-265)						

TABLE NOTE: MINIMUM GROUT COVER BETWEEN REINFORCEMENT AND INSIDE FACE OF CELL SHALL BE 1/4" FOR FINE GROUT AND 1/2" FOR COURSE GROUT.

EPOXY ANCHORS FOR UNREINFORCED MASONRY

ADHESIVE ANCHORS IN UNREINFORCED MASONRY SHALL BE HILTI HIT-HY 270 (ICC ESR-4144) OR SIMPSON SET (ICC ESR-1772). TYPICAL ANCHOR INSTALLATION SHALL BE PER DETAIL X/SXXX. ALL HOLES SHALL BE DRILLED WITH A ROTARY DRILL. NO IMPACT/HAMMERING ACTION IS ALLOWED. ALL THREAD ROD SHALL CONFORM TO ASTM F1554 GRADE 36, U.N.O.

LOADING DIRECTION	ALLOWABLE CAPACITY
TENSION	X,XXX LBS.
SHEAR	X,XXX LBS.

SUBSTITUTIONS MAY BE MADE PROVIDED TESTING IS COMPLETED IN ACCORDANCE WITH THE PREQUALIFIED TESTING PROCEDURES USED FOR THE SPECIFIED ANCHORS, AND THE RESULTS ARE EQUIVALENT TO THE VALUES SHOWN ABOVE

STRUCTURAL STEEL

STRUCTURAL STEEL SHALL OF THE MATERIAL AND TYPE LISTED BELOW:

STRUCTURAL STEEL								
SHAPE MATERIAL GRADE								
WIDE FLANGE SHAPES	ASTM A992, GRADE 50							
PLATES WHERE NOTED	ASTM A572, GRADE 50							
CHANNELS, PLATES AND ANGLES, U.N.O.	ASTM A36							
HOLLOW STRUCTURAL SECTIONS (RECTANGULAR)	ASTM A500, GRADE C (Fy=50KSI)							
PIPES	ASTM A53, GRADE B (Fy=35 KSI)							

DESIGN, FABRICATION, AND ERECTION SHALL BE IN ACCORDANCE WITH THE "AISC SPECIFICATION FOR THE DESIGN, FABRICATION. AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" WITH "COMMENTARY" AND THE "CODE OF STANDARD PRACTICE", WITH EXCEPTIONS NOTED IN SPECIFICATIONS.

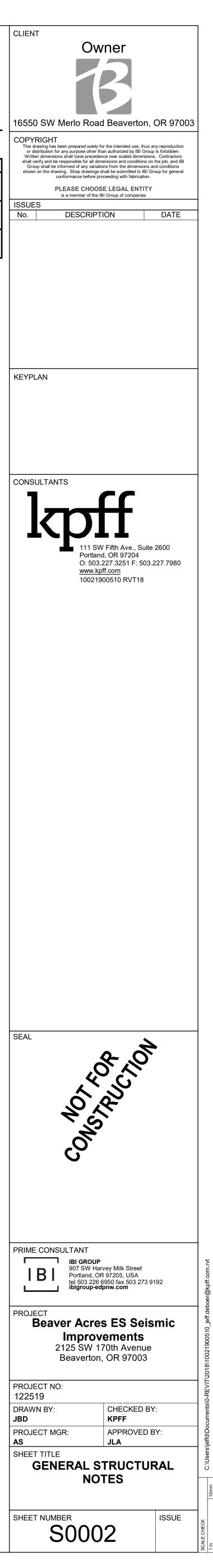
BOLTS SHALL CONFORM TO THE ASTM AND RCSC SPECIFICATIONS FOR JOINTS USING ASTM F3125, GRADE A325 OR GRADE A490 HIGH STRENGTH BOLTS. BOLTS SHALL BE SNUG-TIGHT UNLESS NOTED OTHERWISE.

WELDING SHALL CONFORM TO THE AWS CODES FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION. WELDING SHALL BE PERFORMED IN ACCORDANCE WITH A WELDED PROCEDURE SPECIFICATION (WPS) AS REQUIRED IN AWS D1.1 AND APPROVED BY THE STRUCTURAL ENGINEER. THE WPS VARIABLES SHALL BE WITHIN THE PARAMETERS ESTABLISHED BY THE FILLER-METAL MANUFACTURER.

FOR COMPLETE JOINT PENETRATION WELDS ASSOCIATED WITH MEMBER SPLICES AND CONNECTIONS NOT PART OF THE SFRS, WELDS SHALL BE MADE WITH FILLER METAL THAT HAS A MINIMUM CVN TOUGHNESS OF 20 FT-LBS AT 40 DEGREES F.

WELDS SHALL BE MADE USING E70XX ELECTRODES AND SHALL BE 3/16" MINIMUM, UNLESS OTHERWISE NOTED. WELDING SHALL BE BY AWS CERTIFIED WELDERS.

PROVIDE WEEP HOLES AT EXTERIOR CLOSED SECTIONS WHERE MOISTURE MAY ACCUMULATE.



SIZE, GAUGE, AND SPACING SHOWN ON THE DRAWINGS.

162 33

ALL FIELD CUTTING OF STUDS MUST BE BY SAWING, SHEARING, OR PLASMA CUTTING. OTHER CUTTING METHODS OF COLD-FORMED MEMBERS ARE UNACCEPTABLE.

TO LENGTH.

COLD-FORMED METAL FRAMING CONNECTIONS								
FASTENER	PRODUCT							
SCREWS	ELCO DRIL-FLEX OR HILTI KWIK-FLEX (ESR-3332)							
PAF'S	HILTI X-U (ESR-2269)							

WELDING SHALL CONFORM WITH AWS D1.3.

SAWN LUMBER SHALL CONI DESIGN SPECIFICATION (ND LUMBER INSPECTION BURE SPECIES, GRADE, AND MOIS
USE
LUMBER 2" TO 4" THICK x 5'

USE	SPECIES AND GRADE	MOISTURE CONTENT
LUMBER 2" TO 4" THICK x 5" OR WIDER (JOISTS/RAFTERS)	DOUGLAS FIR-LARCH NO. 2 & BTR	MC/KD 15
LUMBER 2" TO 3" THICK x 4" TO 6" WIDE (STUDS)	DOUGLAS FIR-LARCH STUD	S-DRY, MC/KD 15
LUMBER 5x5 AND GREATER (BEAMS)	DOUGLAS FIR-LARCH NO. 1	S-DRY
LUMBER 5x5 AND GREATER (POSTS)	DOUGLAS FIR-LARCH NO. 1	S-DRY
T&G DECKING	DOUGLAS FIR-LARCH COMMERCIAL DEX	S-DRY, MC/KD 15

BARRIER IS PROVIDED.

FRAMING ACCESSORIES SHALL BE MANUFACTURED BY SIMPSON STRONG TIE (OR APPROVED EQUAL) AND OF THE SIZE AND TYPE SHOWN ON THE DRAWINGS. ALL NAIL HOLES SHALL BE FILLED WITH STRUCTURAL FASTENERS, UNLESS NOTED OTHERWISE ON THE DRAWINGS AND FASTENERS SHALL BE INSTALLED FOLLOWING ALL MANUFACTURERS REQUIREMENTS. IF A SUBSTITUTION IS MADE, A DOCUMENT SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL OUTLINING THE FRAMING ACCESSORIES BEING REPLACED AND THE SUBSTITUTED FRAMING ACCESSORIES. ALLOWABLE LOADS FOR THE SIMPSON ACCESSORIES SHALL BE TABULATED ALONG WITH ALLOWABLE LOADS FOR THE SUBSTITUTED ACCESSORIES, WHICH CLEARLY INDICATE THE SUBSTITUTED ACCESSORIES HAVING AN EQUAL OR GREATER CAPACITY.

ALL FRAMING NAILS SHALL BE OF THE SIZE AND QUANTITY INDICATED ON THE DRAWINGS AND CONFORM TO ASTM F 1667, INCLUDING SUPPLEMENT 1, "STANDARD SPECIFICATION OF DRIVEN FASTENERS: NAILS, SPIKES, AND STAPLES AND ICC-ES REPORT ESR-1539 "POWER-DRIVEN STAPLES AND NAILS". NAILS SHALL BE IDENTIFIED BY LABELS (ATTACHED TO THEIR CONTAINERS) THAT SHOW THE MANUFACTURER'S NAME AND ICC-ES REPORT NUMBER, NAIL SHANK DIAMETER, AND LENGTH AND SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO FRAMING. NAILING NOT SHOWN SHALL BE AS INDICATED ON OSSC TABLE 2304.10.1 OR ICC ESR-1539. THE FOLLOWING NAIL SIZES SHALL BE USED WITH THE NAIL LENGTH DETERMINED BY MINIMUM PENETRATION INTO FRAMING MEMBER:

FRAMING NAILS								
NAIL TYPE	SHANK DIAMETER (IN.)	MINIMUM PENETRATION INTO FRAMING MEMBER (IN.)						
6d	0.113	1.125						
8d	0.131	1.375						
10d	0.148	1.5						
12d	0.148	1.5						
16d	0.162	1.625						

INSTALLED WITH STANDARD CUT WASHERS.

THE TERM "WOOD STRUCTURAL PANEL" REFERS TO A WOOD-BASED PANEL PRODUCT BONDED WITH A WATERPROOF ADHESIVE. INCLUDED UNDER THIS DESIGNATION ARE BOTH PLYWOOD AND ORIENTED STRAND BOARD (OSB). WOOD STRUCTURAL PANELS SHALL CONFORM TO U.S. DEPARTMENT OF COMMERCE VOLUNTARY PRODUCT STANDARDS PS1 OR PS2 FOR WOOD-BASED STRUCTURAL USE PANELS, OR APA PERFORMANCE STANDARD PRP-108 (ICC-ES ESR-2586). PANELS SHALL BE APA RATED SHEATHING OR APA RATED STURD-I-FLOOR, EXTERIOR OR EXPOSURE 1, OF THE THICKNESS AND SPAN RATING SHOWN ON THE DRAWINGS. PANELS SHALL BE STAMPED WITH THE APA TRADEMARK. WOOD STRUCTURAL PANEL INSTALLATION SHALL BE IN CONFORMANCE WITH APA RECOMMENDATIONS. ALLOW 1/8" SPACING AT PANEL ENDS AND EDGES, UNLESS OTHERWISE RECOMMENDED BY THE PANEL MANUFACTURER.

ALL ROOF SHEATHING AND FLOOR SHEATHING SHALL BE INSTALLED WITH FACE GRAIN OR STRENGTH AXIS PERPENDICULAR TO SUPPORTS, EXCEPT AS INDICATED ON THE DRAWINGS. ROOF SHEATHING SHALL EITHER BE BLOCKED, TONGUE-AND-GROOVE, OR HAVE EDGES SUPPORTED BY PLYCLIPS. WHERE BLOCKING IS SPECIFICALLY INDICATED ON THE DRAWINGS, T&G EDGES OR PLYCLIPS MAY NOT BE SUBSTITUTED. SHEATHING SHALL BE UNBLOCKED, EXCEPT AS INDICATED ON DRAWINGS. FLOOR SHEATHING SHALL BE FIELD GLUED TO THE FRAMING USING ADHESIVES MEETING APA SPECIFICATION AFG-01 OR ASTM D3498. TONGUE AND GROOVE PANELS SHALL ALSO BE GLUED AT THE T&G JOINT.

HORIZONTALLY OR VERTICALLY. SHEET SIZES SHALL BE 4x8 UNLESS AT BOUNDARIES OR FRAMING CHANGES.

PENETRATION OF NAILS.

AND ENDS OF PANELS. STAGGER NAILING ON EDGES.

GENERAL STRUCTURAL NOTES CONT.

COLD-FORMED METAL FRAMING

STEEL STUDS SHALL BE C-STUDS WITH A MINIMUM YIELD STRENGTH OF 33,000 PSI FOR 33 AND 43 MIL AND 50,000 PSI FOR 54, 68 AND 97 MIL THICKNESSES. GAUGE PLATE AND STRAPS SHALL HAVE A MINIMUM YIELD STRENGTH OF 30,000 PSI FOR 33 AND 43 MIL AND 50,000 PSI FOR 54, 68 AND 97 MIL THICKNESSES. COLD-FORMED FRAMING SHALL BE OF THE

THE AMERICAN IRON AND STEEL INSTITUTE AND STEEL STUD MANUFACTURES ASSOCIATION (SSMA) STANDARDS ARE USED IN THIS PACKAGE. PRODUCTS USED SHALL MEET OR EXCEED AISI STANDARDS AND ARE DESIGNATED BY THE FOLLOWING FOUR PART IDENTIFICATION CODE, WITH ALL DIMENSIONS IN 1/100 INCHES:

EXAMPLE: <u>362 S 162 - 33</u>

INDICATES WEB DEPTH (IN 1/1,000 OF AN INCH) 362

INDICATES SHAPE STYLE (S, T, U OR F) INDICATES FLANGE WIDTH (IN 1/1,000 OF AN INCH)

INDICATES MATERIAL MIL THICKNESS (1 MIL = 1/1,000 INCH)

PROVIDE BRIDGING ADEQUATE TO DEVELOP THE FULL MOMENT CAPACITY OF STUDS IN CONFORMANCE WITH THE STEEL STUD MANUFACTURERS ASSOCIATION'S (SSMA) RECOMMENDATIONS.

NO NOTCHING OR COPING OF STUDS IS ALLOWED, UNLESS NOTED OTHERWISE.

ENDS OF AXIAL LOAD BEARING WALL STUDS SHALL HAVE SQUARE END CUTS AND SHALL BE SEATED TIGHT AGAINST THE TRACKS WITH A MAXIMUM GAP TOLERANCE OF 1/8" BETWEEN THE STUD AND TRACK. FOR STUDS WITH A MATERIAL THICKNESS OF 68 MIL AND GREATER, THE MAXIMUM GAP TOLERANCE IS REDUCED TO 1/16".

SPLICING OF WALL STUDS OR HEADERS IS NOT ALLOWED, UNLESS NOTED OTHERWISE.

CONTRACTOR TO ENSURE PUNCH OUT ALIGNMENT WHEN ASSEMBLING LATERAL BRACING AND FIELD CUTTING STUDS

ALL HEADERS/BUILT-UP BEAMS ARE TO BE CONSTRUCTED WITH UNPUNCHED MATERIAL ONLY.

COLD-FORMED FRAMING CONNECTIONS SHALL BE AS FOLLOWS:

FOR SCREWS, PROVIDE 3/4" MINIMUM CLEARANCE FROM ALL EDGES AND 3/4" MINIMUM CENTER TO CENTER SPACING.

FASTENERS OF COMPARABLE SPECIFICATIONS AND LOAD CAPACITIES MAY BE SUBMITTED FOR APPROVAL

SAWN LUMBER

IFORM TO THE REQUIREMENTS AS INDICATED IN THE CURRENTLY ACCEPTED NATIONAL DS) DESIGN VALUES FOR WOOD CONSTRUCTION AND CONFORMING TO THE WEST COAST EAU OR WESTERN WOOD PRODUCTS ASSOCIATION GRADING RULES. LUMBER SHALL BE THE ISTURE CONTENT NOTED BELOW:

ALL LUMBER IN CONTACT WITH CONCRETE OR CMU SHALL BE PRESSURE TREATED, UNLESS AN APPROVED MOISTURE

BOLTS AND LAG SCREWS SHALL CONFORM TO ANSI/ASME STANDARD B18.2.1. ALL BOLTS AND LAG SCREWS SHALL BE

CUTTING AND NOTCHING OF JOISTS AND STUDS SHALL CONFORM TO THE TYPICAL WOOD DETAILS PROVIDED OR OSSC SECTIONS 2308.4.2.4, 2308.5.9 AND 2308.7.4 WHERE NO DETAILS ARE SPECIFIED.

WOOD STRUCTURAL PANELS

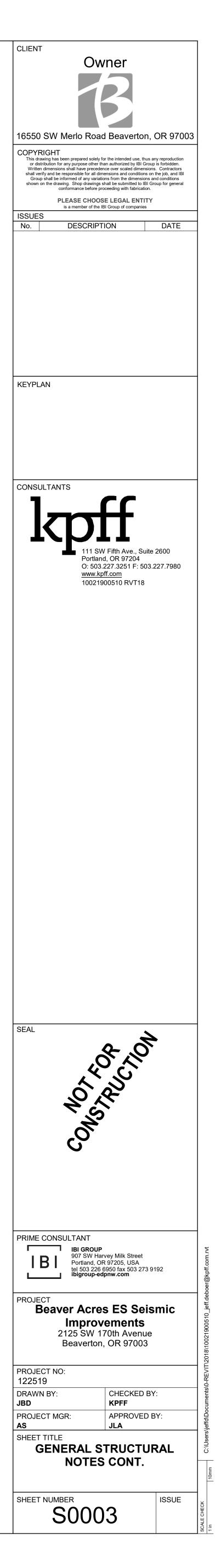
SHEAR WALL SHEATHING SHALL BE INSTALLED EITHER HORIZONTALLY OR VERTICALLY AND BE BLOCKED WITH 2x FRAMING AT ALL PANEL EDGES. NAILING NOT SHOWN SHALL BE AS INDICATED IN OSSC TABLE 2304.10.1.

WOOD STRUCTURAL PANEL SHEAR WALLS

SHEAR WALL WOOD STRUCTURAL PANELS SHALL BE PLYWOOD OR OSB PANELS CONFORMING TO THE REQUIREMENTS FOR ITS TYPE SPECIFIED IN U.S. DOC PS1 OR PS2. SHEATHING SHALL BE APPLIED EITHER

NAIL HEADS SHALL BE DRIVEN FLUSH WITH SHEATHING. DO NOT PENETRATE SURFACE PLY WITH NAIL HEADS. IF NAIL HEADS ARE NOT FLUSH NOTIFY SEOR. CONTRACTOR IS RESPONSIBLE FOR ANY REPAIRS NECESSARY DUE TO OVER-

ALL SHEAR WALL PANEL SHEATHING EDGES SHALL BE BLOCKED. EDGE NAILS SHALL BE AT LEAST 3/8" FROM EDGES



	SYSTEM OR MATERIAL CONTRACTOR QUALITY CONTROL REQUIREMENTS STEEL FABRICATION FABRICATION OF STRUCTURAL ELEMENTS MATERIAL VERIFICATION OF STRUCTURAL STEEL COMPONENTS FOR OTHER STEEL, IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS MATERIAL VERIFICATION OF HIGH STRENGTH BOLTS, NUTS, AND WASHERS MATERIAL VERIFICATION OF ANCHOR BOLTS AND MATERIAL VERIFICATION OF ANCHOR BOLTS AND MATERIAL VERIFICATION OF WELD FILLER METALS STRUCTURAL STEEL WELDING VERIFYING USE OF PROPER WPS'S VERIFYING WELDER QUALIFICATIONS COMPLETE AND PARTIAL JOINT PENETRATION GROOVE WELDS MULTIPASS FILLET WELDS SINGLE PASS FILLET WELDS	1704.2.5.1 1505.2.1 2203.1 TABLE 1705.2 1705.2.2 1705.2.3 1705.2.4 TABLE 1705.2-4 1705.2.1.2 AISC 360 N5 TABLE 1705.2-2 1705.2.1.2 AISC 360 N5 TABLE 1705.2-2 1705.2.1.2 AISC 360 N5 TABLE 1705.2-2	CODE OR STANDARD REFERENCE AISC 360 CHAPTER N AISC 360 CHAPTER N AISC 360 N2 AISC 360 N2 ASTM A6 ASTM STANDARDS SPECIFIED IN CONSTRUCTION DOCUMENTS AISC 360 A3.1 AISC 360 A3.2 AISC 360 A3.3 AISC 360 A3.3 AISC 360 A3.3 AISC 360 A3.4 AISC 360 A3.5		PERIODIC/ OBSERVE X X X	REMARKS CONTRACTOR TO PROVIDE QUALITY CONT ALL ITEMS INDICATED TO BE OBSERVE AND PERFORM IN TABLE BELOW REFER TO INSPECTION OF FABRICATOR REQUIREMENTS CERTIFIED MILL TEST REPORTS MANUFACTURER'S CERTIFIED TEST REPORT MANUFACTURER'S CERTIFIED TEST REPORT
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ACKNOWLEDGEMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL. PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION. THE METHOD AND FREQUENCY OF REPORTING AND DISTRIBUTION OF THE REPORTS. IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION. TABLE 1 - GEOTECHNICAL - SPECIAL INSPECTIONS SYSTEM OR MATERIAL SYSTEM OR MATERIAL SYSTEM OR MATERIAL DENTIFICATION AND TREINING CAPACITY NOT THE REPORT AND COUNTINGS ARE ADEQUATE TO COUPDE OF STANDARDS REFERENCE SOILS ERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO CHIEVE THE DESIGN DERRING CAPACITY NO HAVE REACHED PROPER MATERIALS, DENSITIES AND LIFT HICKNESSES DURING OF LACEMENT AND COMPACTION OF NOT PLACEMENT AND COMPACTION OF REPORT LASSIFICATION AND TESTING OF CONTROLLED LIL MATERIALS. DELOW FOOTINGS AND EXTENSION OF CONTROLLED LIL MATERIALS, DENSITIES AND LIFT HICKNESSES DURING PLACEMENT AND COMPACTION OF NOT PLACEMENT OF CONTROLLED FILL, OBSERVE USBRADE AND VERIFY THAT SITE HAS BEEN PREPARED	HIGH-STRENGTH BOLTING	+ +		┼ ┼		
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TABLE 1 - GEOTECHNICAL - SPECIAL INSPECTIONS INSPECTION SOLD OF CODE OR STANDARDS EXCODE OR STANDARDS EXCODE ON STANDARDS EXCODE SOLLS CODE OR STANDARDS EXCODE ON STANDARDS EXCODE ON STANDARDS EXCODE SOLLS CODE OR STANDARDS EXCODE ON STANDARDS EXCODE ON STANDARDS EXCODE SOLLS CONTINUOUS PERIODIC SOLLS ERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO CHIEVE THE DESIGN BEARING CAPACITY SOLLS ERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH ND HAVE REACHED PROPER MATERIAL CHIEVE THE DESIGN BEARING OF CONTROLLED LI MATERIALS, DENSITIES AND LIFT ICKNESSES DURING PLACEMENT AND COMPACTION OF ONTROLLED FILL. ATOPIC AND VERIFY THAT SITE HAS BEEN PREPARED NOT PLACEMENT OF CONTROLLED FILL. X X X BY THE GEOTECHNICAL ENGINEER OR QUALIFIED SOLLS BY THE GEOTECHNICAL ENGINEER OR QUALIFIED INTEGE DURING PLACEMENT AND COMPACTION OF ON OF ONTROLLED FILL. X X X BY THE GEOTECHNICAL ENGINEER OR QUALIFIED	PRETENSIONED HIGH STRENGTH BOLT INSTALLATION USING TURN-OF-THE-NUT METHOD WITH MATCH MARKING, DIRECT TENSION INDICATOR METHOD, OR	TABLE 1705.2-2 AISC 360 M2-5	FOR STRUCTURAL JOINTS USING ASTM A325 OR		х	ALL CONNECTIONS VISUALLY INSPECTED. CONNECTIONS USING DIRECT TENSION INDICATORS, ALL BOLTS SHALL BE INSPEC
SYSTEM OR MATERIAL INSPECTION OSSC CODE REFERENCE CODE OR STANDARDS REFERENCE FREQUENCY (NOTE 6) CONTINUOUS REMARKS TERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO CHIEVE THE DESIGN BEARING CAPACITY SOILS SOILS TERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH ND HAVE REACHED PROPER MATERIAL X X TERIFY DATERIALS IT05.6 GEOTECHNICAL REPORT X ILL MATERIALS DENSITIES AND LIFT HICKNESSES DURING PLACEMENT AND COMPACTION OF ONTROLLED FILL 1105.6 GEOTECHNICAL REPORT X IRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE UBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED 1705.6 X SPECIAL INSPECTOR	TWIST-OFF TYPE TENSION CONTROL BOLT METHOD PRETENSIONED HIGH STRENGTH BOLT INSTALLATION	AISC 360 N5-6	A490 BOLTS SECTION 9 AISC 360 SECTION M2.5			AFTER SNUGGING AND AFTER PRETENSIO
INSPECTION SYSTEM OR MATERIAL INSPECTION SOLD CODE OR STANDARDS REFERENCE FREQUENCY (NOTE 6) REMARKS CONTINUOUS PERIODIC SOILS SOILS ERIFY EXCAVATIONS ARE ADEQUATE TO CHIEVE THE DESIGN BEARING CAPACITY X SOILS ERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH ND HAVE REACHED PROPER MATERIAL X ERIFY USE OF PROPER MATERIAL X ERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT HICKNESSES DURING PLACEMENT AND COMPACTION OF ONTROLLED FILL X BY THE GEOTECHNICAL ENGINEER OR QUALIFIED SPECIAL INSPECTOR RIOT OF LACEMENT OF CONTROLLED FILL, OBSERVE UBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED X	USING TURN-OF-THE-NUT METHOD WITHOUT MATCH MARKING OR CALIBRATED WRENCH METHOD			X		ALL CONNECTIONS VISUALLY INSPECTED
SYSTEM OR MATERIAL OSSC CODE REFERENCE STANDARDS REFERENCE CONTINUOUS PERIODIC REMARKS CONTINUOUS PERIODIC REMARKS SOILS SOILS CONTINUOUS PERIODIC CONTINUOUS OF CONTINUES ARE ADEQUATE TO CHIEVE THE DESIGN BEARING CAPACITY CONTROLED TO PROPER DEPTH ND HAVE REACHED PROPER MATERIAL REFORM CLASSIFICATION AND TESTING OF CONTROLLED ILL MATERIALS, DENSITIES AND LIFT HICKNESSES DURING PLACEMENT AND COMPACTION OF ONTROLLED FILL TOTO PLACEMENT OF CONTROLLED FILL, OBSERVE UBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED	INSPECTION TASKS PRIOR TO BOLTING MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR					HIGH STRENGTH BOLTS
Image: Nepercence Soils Soinglospan	FASTENER MATERIALS			Х		
ERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO CHIEVE THE DESIGN BEARING CAPACITY ERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH ND HAVE REACHED PROPER MATERIAL ERFORM CLASSIFICATION AND TESTING OF CONTROLLED ILL MATERIALS ERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT HICKNESSES DURING PLACEMENT AND COMPACTION OF ONTROLLED FILL RIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE UBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED TO SERVE CONTROLLED FILL RIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE CONTROLLED FILL RIOR TO PLACEMENT OF CONTROLLED FILL RIOR TO PLACEMENT OF CONTROLLED FILL RIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE CONTROLLED FILL RIOR TO PLACEMENT OF CONTROLLED FILL OF CONTROLLED FILL RIOR TO PLACEMENT OF CONTROLLED FILL OF CONTROLLED FILL RIOR TO PLACEMENT OF CONTROLLED FILL OF CONTROL	FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS				X	
ERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH ND HAVE REACHED PROPER MATERIAL ERFORM CLASSIFICATION AND TESTING OF CONTROLLED ILL MATERIALS ERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT HICKNESSES DURING PLACEMENT AND COMPACTION OF ONTROLLED FILL RIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE UBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED ERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT HICKNESSES DURING PLACEMENT OF CONTROLLED FILL, OBSERVE UBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED HICKNESSES DURING PLACEMENT OF CONTROLLED FILL, OBSERVE HICKNESSES DURING PLACEMENT OF CONTROLLED FILL OF PLACEMENT OF CONTROLLED FILL HICKNESSES DURING PLACEMENT OF CONTROLLED FILL OF PLACEMENT OF CONTROL PLACEMENT OF CONTROLLED FILL HICKNESSES DURING PLACEMENT OF CONTROLLED FILL OF PLACEMENT OF CONTROL PLACEMENT OF CONTR	PROPER FASTENERS SELECTED FOR THE JOINT DET				v	
ERFORM CLASSIFICATION AND TESTING OF CONTROLLED 1705.6 GEOTECHNICAL X BY THE GEOTECHNICAL ENGINEER OR QUALIFIED ERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT 1705.6 GEOTECHNICAL X BY THE GEOTECHNICAL ENGINEER OR QUALIFIED HICKNESSES DURING PLACEMENT AND COMPACTION OF ONTROLLED FILL 1705.6 X X SPECIAL INSPECTOR RIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE V X X X UBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED X X X	(GRADE, TYPE, BOLT LENGTH, IF THREADS ARE TO BE EXCLUDED FROM THE SHEAR PLANE)	_		<u> </u>	^	
ILL MATERIALS ERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT HICKNESSES DURING PLACEMENT AND COMPACTION OF ONTROLLED FILL RIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE UBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED	PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	1705.2.1.2	AISC 360 TABLE N5.6-1		Х	
ONTROLLED FILL ONTROLLED FILL, OBSERVE RIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE X UBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED X	CONNECTING ELEMENTS< INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOL DEEDADATION JE SDECIEJED, MEET ADDUCABLE	TABLE 1705.2-2 LE	AISC 360 M2.5		Х	
	PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS PRE-INSTALLATION VERIFICATION TESTING BY					
	INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED				Х	
	PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS				Х	
TABLE 2 - GENERAL - SPECIAL INSPECTIONS	INSPECTION TASKS DURING BOLTING FASTENER ASSEMBLIES, OF SUITABLE CONDITION,			+		HIGH STRENGTH BOLTS
SYSTEM OR MATERIAL OSSC CODE CODE OR FREQUENCY (NOTE 6) REMARKS	PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED		AISC 360 TABLE N5.6-2		Х	
REFERENCE STANDARD REFERENCE CODE STANDARD REFERENCE CONTINUOUS PERIODIC	JOINT BROUGHT TO THE SNUG-TIGHT CONDITION	-	AISC M2.5 RCSC		Х	
	PRIOR TO THE PRETENSIONING OPERATION FASTENER COMPONENT NOT TURNED BY THE WREN	1705.2.1.2 CH TABLE 1705.2-2	SPECIFICATION FOR STRUCTURAL		X	
SPECIAL INSPECTION IS REQUIRED FOR STRUCTURAL LOAD-BEARING MEMBERS AND ASSEMBLIES FABRICATED ON THE PREMISES OF A FABRICATOR'S SHOP PER MATERIAL SPECIFIC	PREVENTED FROM ROTATING FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING		JOINTS USING ASTM A325 OR A490 BOLTS		×	
ABRICATORS SHOP PER MATERIAL SPECIFIC TABLES AND AS REQUIRED ELSEWHERE IN THE SPECIAL INSPECTION PROGRAM. THE SPECIAL INSPECTOR SHALL VERIFY THAT THE FABRICATOR	SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES INSPECTION TASKS AFTER BOLTING		SECTION 9			HIGH STRENGTH BOLTS
MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES AND SHALL REVIEW FOR COMPLETENESS AND ADEQUACY RELATIVE TO THE CODE REQUIREMENT. REFERENCE SECTION	DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	0 1705.2.1.2 TABLE 1705.2-2	AISC 360 TABLE N5.6-3	Х		

	STATEMENT OF SPECIAL INSPECTION NOTES: SPECIAL INSPECTIONS SHALL CONFORM TO SECTION 1705 OF THE 2019 OSSC, CONTRACT DOCUMENTS AND APPROVED SUBMITTALS.					TABLE 3 - STEEL - SPECIAL INSPECTIONS							
REFER TO TABLES 1 THROUGH 5 FOR SPECIAL INS	SPECTION AND TABL	ES 6 THROUGH 8	8 FOR TESTING REQUIRE	MENTS.		SYSTEM OR MATERIAL	OSSC CODE REFERENCE	CODE OR STANDARD	CONTINUOUS/	NOTES 5 AND 6) PERIODIC/	REMARKS		
SPECIAL INSPECTIONS AND ASSOCIATED TESTING THE REQUIREMENTS OF ASTM E329 (MATERIALS). THEIR SCOPE OF ACCREDITATION. SPECIAL INSPE BE QUALIFIED PER SECTION 6.1.4.1.1 OF AWS D1.1.	. THE INSPECTION AN ECTORS SHALL BE A	ND TESTING AGE	ENCY SHALL FURNISH TO	THE ARCH	ITECT A COPY OF	CONTRACTOR QUALITY CONTROL REQUIREMENTS		REFERENCE AISC 360 CHAPTER N	PERFORM X	OBSERVE X	CONTRACTOR TO PROVIDE QUALITY CON ALL ITEMS INDICATED TO BE OBSERVE AN PERFORM IN TABLE BELOW		
THE SPECIAL INSPECTOR SHALL OBSERVE THE IND ALL DISCREPANCIES SHALL BE BROUGHT TO THE A REPORTS.						STEEL FABRICATION FABRICATION OF STRUCTURAL ELEMENTS	1704.2.5.1	AISC 360 N2		X	REFER TO INSPECTION OF FABRICATOR REQUIREMENTS		
THE SPECIAL INSPECTOR AND GEOTECHNICAL END OFFICIAL, STRUCTURAL ENGINEER, ARCHITECT, CO REPORT STATING THAT THE WORK REQUIRING SPI CONSTRUCTION DOCUMENTS AND THAT ALL DISCF	CONTRACTOR, AND O PECIAL INSPECTION V	OWNER. THE SPE WAS INSPECTED	ECIAL INSPECTION AGEN AND IS IN CONFORMAN	CY SHALL S CE WITH TH	SUBMIT A FINAL E APPROVED	MATERIAL VERIFICATION OF STRUCTURAL STEEL COMPONENTS	1505.2.1 2203.1 TABLE 1705.2	ASTM A6 ASTM STANDARDS SPECIFIED IN CONSTRUCTION DOCUMENTS AISC 360 A3.1 AISC 360 N3.2		Х	CERTIFIED MILL TEST REPORTS		
FOR STEEL INSPECTIONS PER AISC 360 AND 341 (TA QUALITY ASSURANCE (QA) IS REQUIRED FOR EACH QUALITY CONTROL (QC) TO BE PROVIDED BY THE F CONTRACTOR AND SPECIAL INSPECTOR TO DOCU	CH ITEM IN TABLES UN FABRICATOR, EREC	TOR OR OTHER	RESPONSIBLE CONTRAC	TOR AS AP		FOR OTHER STEEL, IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS	1705.2.2 1705.2.3 1705.2.4 TABLE 1705.2-4	APPLICABLE ASTM STANDARDS		x	MANUFACTURER'S CERTIFIED TEST REP		
INSPECTION TYPES CONTINUOUS : THE FULL-TIME OBSERVATION OF W PRESENT IN THE AREA WHERE THE WORK IS BEING PERIODIC : THE PART-TIME OR INTERMITTENT OBS INSPECTOR WHO IS PRESENT IN THE AREA WHERE WORK. OBSERVE : OBSERVE THESE FUNCTIONS ON A RAM	NG PERFORMED. SERVATION OF WORI RE THE WORK HAS BE	RK REQUIRING SP EEN OR IS BEING	PECIAL INSPECTION BY A	N APPROVE HE COMPLE	D SPECIAL TION OF THE	MATERIAL VERIFICATION OF HIGH STRENGTH BOLTS, NUTS, AND WASHERS	1705.2.1.2 AISC 360 N5 TABLE 1705.2-2	AISC 360 A3.3 AISC 360 N3.2 ASTM STANDARDS SPECIFIED IN CONSTRUCTION DOCUMENTS RCSC 2.1		x	MANUFACTURER'S CERTIFIED TEST REP		
PERFORM INSPECTIONS SHALL BE PERFORMED P PERFORM INSPECTION PRIOR TO FINAL ACCEPTAN DEMONSTRATING UNDERSTANDING OF REQUIREM DESIGNATION OF THIS TASK SHALL BE REDUCED T DETERMINE THAT THE WELDER HAS DISCONTINUE	PRIOR TO THE FINAL NCE OF THE ITEM FC MENTS AND POSSESS TO OBSERVE, AND T	L ACCEPTANCE C OR TEN WELDS T SION OF SKILLS / THE WELDER SHA	OF THE ITEM. O BE MADE BY A GIVEN AND TOOLS TO VERIFY 1 ALL PERFORM THIS TASK	WELDER, W HESE ITEM (. SHOULD 1	ITH THE WELDER S, THE PERFORM HE INSPECTOR	MATERIAL VERIFICATION OF ANCHOR BOLTS AND THREADED RODS		AISC 360 A3.4 AISC 360 N3.2 ASTM STANDARDS SPECIFIED IN CONSTRUCTION DOCUMENTS		x	MANUFACTURER'S CERTIFIED TEST REF		
SUCH TIME AS THE INSPECTOR HAS RE-ESTABLISH LISTED	SHED ADEQUATE ASS	SURANCE THẤT T	THE WELDER WILL PERF	ORM THE IN	SPECTION TASKS	MATERIAL VERIFICATION OF WELD FILLER METALS	1705.2.1.1 TABLE 1705.2-5	AISC 360 A3.5 AISC 360 N3.2 APPLICABLE AWS		x	MANUFACTURER'S CERTIFIED TEST REP		
SPECIAL INSPECTION OF MECHANICAL POST INSTA MANUFACTURERS INSTALLATION REQUIREMENTS.						STRUCTURAL STEEL WELDING		A5 DOCUMENTS					
REQUIREMENTS. INSPECTION REPORTS SHALL IDENTIFY NAMES OF	F INSTALLERS.					VERIFYING USE OF PROPER WPS'S	1705.2.1 AISC 360 N5-4	AISC 360 N3.2			RETAIN A RECORD OF WELDING PROCE SPECIFICATIONS		
SPECIAL INSPECTOR SHALL PROVIDE DOCUMENTA					HORS WERE	VERIFYING WELDER QUALIFICATIONS COMPLETE AND PARTIAL JOINT PENETRATION GROOVE				Х	RETAIN A RECORD OF QUALIFICATION OF		
NSPECTED PER APPROVED ANCHOR EVALUATION						WELDS	_		X	ļ			
DOCUMENT (D): INDICATES CONTRACTOR AND SPE	PECIAL INSPECTOR TO	O PROVIDE DOC	UMENTATION IN ACCORI		AISC 341.	MULTIPASS FILLET WELDS SINGLE PASS FILLET WELDS GREATER THAN 5/16"	TARI E 1705 2-6	AWS D1.1 CLUASE	X X	1	ALL WELDS VISUALLY INSPECTED PER A		
OR RESPONSIBILITY:						PLUG AND SLOT WELDS		6	X				
RACTOR RESPONSIBLE FOR THE CONSTRUCTION (OR SEISMIC-	SINGLE PASS FILLET WELDS LESS THAN OR EQUAL TO 5/16"	7			X			
EXACTOR RESPONSIBLE FOR THE CONSTRUCTION C G COMPONENT LISTED IN TABLES 6 THROUGH 8 SHA ER PRIOR TO THE COMMENCEMENT OF WORK ON T NTAIN THE FOLLOWING:	HALL SUBMIT A WRIT	TEN STATEMENT	C OF RESPONSIBILITY TO	THE BUILD	ING OFFICIAL AND	VERIFICATION OF JOINT & CONNECTION DETAILS INCLUDING MEMBER AND COMPONENT LOCATIONS, BRACING, AND STIFFENERS		AISC 360 N5.7		х			
EDGEMENT OF AWARENESS OF THE SPECIAL REQU	QUIREMENTS CONTAI	NNED IN THE STA	TEMENT OF SPECIAL IN	SPECTIONS		HIGH-STRENGTH BOLTING	+						
ACKNOWLEDGEMENT THAT CONTROL WILL BE EXE BY THE BUILDING OFFICIAL.					IENTS APPROVED	SNUG-TIGHT HIGH STRENGTH BOLT INSTALLATION		RCSC SPECIFICATION		X	ALL CONNECTIONS VISUALLY INSPECTE VERIFIED SNUG		
PROCEDURES FOR EXERCISING CONTROL WITHIN DISTRIBUTION OF THE REPORTS.	N THE CONTRACTOR'S	'S ORGANIZATION	N, THE METHOD AND FRI	EQUENCY C	F REPORTING AND	PRETENSIONED HIGH STRENGTH BOLT INSTALLATION USING TURN-OF-THE-NUT METHOD WITH MATCH MARKING, DIRECT TENSION INDICATOR METHOD, OR	1705.2.1 TABLE 1705.2-2 AISC 360 M2-5	FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS		x	ALL CONNECTIONS VISUALLY INSPECTED CONNECTIONS USING DIRECT TENSION INDICATORS, ALL BOLTS SHALL BE INSPI		
IDENTIFICATION AND QUALIFICATIONS OF THE PER	RSON(S) EXERCISING	G SUCH CONTRO	OL AND THEIR POSITION(6) IN THE OF	RGANIZATION.	TWIST-OFF TYPE TENSION CONTROL BOLT METHOD PRETENSIONED HIGH STRENGTH BOLT INSTALLATION USING TURN-OF-THE-NUT METHOD WITHOUT MATCH	AISC 360 N5-6	SECTION 9 AISC 360 SECTION M2.5			AFTER SNUGGING AND AFTER PRETENS		
						MARKING OR CALIBRATED WRENCH METHOD			~				
	TABLE 1 - GEOT	ECHNICAL - S	SPECIAL INSPECTIO	NS		INSPECTION TASKS PRIOR TO BOLTING					HIGH STRENGTH BOLTS		
SYSTEM OR MATERIAL	OSSC CODE	CODE OR STANDARDS			REMARKS	MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS			Х				
	REFERENCE	REFERENCE	CONTINUOUS PI	RIODIC		FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	1			X	1		
TERIALS BELOW FOOTINGS ARE ADEQUATE TO HE DESIGN BEARING CAPACITY		50123		Х		PROPER FASTENERS SELECTED FOR THE JOINT DETA (GRADE, TYPE, BOLT LENGTH, IF THREADS ARE TO BE	IL			x			
CAVATIONS ARE EXTENDED TO PROPER DEPTH REACHED PROPER MATERIAL	1			х		EXCLUDED FROM THE SHEAR PLANE) PROPER BOLTING PROCEDURE SELECTED FOR JOINT							
CLASSIFICATION AND TESTING OF CONTROLLED				X.		DETAIL	1705.2.1.2 TABLE 1705.2-2	AISC 360 TABLE N5.6-1		X			
E OF PROPER MATERIALS, DENSITIES AND LIFT SES DURING PLACEMENT AND COMPACTION OF ED FILL	- 1705.6 ^G	GEOTECHNICAL REPORT	x	[BY THE GEOTECHNICAL ENGINEER OR QUALIFIED SPECIAL INSPECTOR	CONNECTING ELEMENTS< INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLI PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS		AISC 360 M2.5		x			
ED FILL PLACEMENT OF CONTROLLED FILL, OBSERVE E AND VERIFY THAT SITE HAS BEEN PREPARED				x		PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND	1			x			
						METHODS USED PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS				Х			
	TABLE 2 - GI	ENERAL - SPE	ECIAL INSPECTIONS	5		INSPECTION TASKS DURING BOLTING FASTENER ASSEMBLIES, OF SUITABLE CONDITION,		A100.000			HIGH STRENGTH BOLTS		
SYSTEM OR MATERIAL	OSSC CODE	CODE OR STANDARD	FREQUENCY (N	•	REMARKS	PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED		AISC 360 TABLE N5.6-2		×			
	REFERENCE	REFERENCE	CONTINUOUS	PERIODIC		JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	1705.2.1.2	AISC M2.5 RCSC SPECIFICATION		Х			
					SPECIAL INSPECTION IS REQUIRED FOR	FASTENER COMPONENT NOT TURNED BY THE WRENC PREVENTED FROM ROTATING	H TABLE 1705.2-2	FOR STRUCTURAL		Х			
					STRUCTURAL LOAD-BEARING MEMBERS AND ASSEMBLIES FABRICATED ON THE PREMISES OF A FABRICATOR'S SHOP PER MATERIAL SPECIFIC	FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT		ASTM A325 OR A490 BOLTS SECTION 9		x			
TORS	1704.2.5			Х	TABLES AND AS REQUIRED ELSEWHERE IN THE SPECIAL INSPECTION PROGRAM. THE SPECIAL	TOWARD THE FREE EDGES					HIGH STRENGTH BOLTS		
					INSPECTOR SHALL VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY	INSPECTION TASKS AFTER BOLTING DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED	1705.2.1.2	AISC 360	~				
					CONTROL PROCEDURES AND SHALL REVIEW FOR COMPLETENESS AND ADEQUACY RELATIVE TO THE CODE REQUIREMENT. REFERENCE SECTION	CONNECTIONS	TABLE 1705.2-2	TABLE N5.6-3	^				
					1704.2.5.2 FOR APPROVED FABRICATOR EXCEPTION.								
					SPECIAL INSPECTION REQUIREMENTS FOR DEFERRED SUBMITTAL ITEMS, INCLUDING								
FRRED SUBMITTALS													

STATEM	ENT OF SPECIAL	. INSPECTION NOTE	<u>=S:</u>							
1. SPECIAL INSPECTIONS SHALL CONFORM TO SECTI REFER TO TABLES 1 THROUGH 5 FOR SPECIAL INS					SUBMITTALS.				INSPECTIONS	
2. SPECIAL INSPECTIONS AND ASSOCIATED TESTING THE REQUIREMENTS OF ASTM E329 (MATERIALS).	SHALL BE PERFO	ORMED BY AN APPF AND TESTING AGE	ROVED ACCREDITED	INDEPENDENT	ITECT A COPY OF	SYSTEM OR MATERIAL	OSSC CODE REFERENCE	CODE OR STANDARD REFERENCE	CONTINUOUS/ PERIODIC/ PERFORM OBSERVE	CONTRACTOR TO PROVIDE QUALITY CONTROL FO
THEIR SCOPE OF ACCREDITATION. SPECIAL INSPE BE QUALIFIED PER SECTION 6.1.4.1.1 OF AWS D1.1.	CTORS SHALL B	E APPROVED BY TH	HE BUILDING OFFICIA	L. WELDING IN	SPECTORS SHALL	CONTRACTOR QUALITY CONTROL REQUIREMENTS		AISC 360 CHAPTER N	X X	ALL ITEMS INDICATED TO BE OBSERVE AND/OR PERFORM IN TABLE BELOW
3. THE SPECIAL INSPECTOR SHALL OBSERVE THE INI ALL DISCREPANCIES SHALL BE BROUGHT TO THE REPORTS.						STEEL FABRICATION FABRICATION OF STRUCTURAL ELEMENTS	1704.2.5.1	AISC 360 N2	Х	REFER TO INSPECTION OF FABRICATOR REQUIREMENTS
4. THE SPECIAL INSPECTOR AND GEOTECHNICAL ENG OFFICIAL, STRUCTURAL ENGINEER, ARCHITECT, CO REPORT STATING THAT THE WORK REQUIRING SP CONSTRUCTION DOCUMENTS AND THAT ALL DISCI	ONTRACTOR, ANI ECIAL INSPECTIC	D OWNER. THE SPE ON WAS INSPECTED	ECIAL INSPECTION A D AND IS IN CONFORI	GENCY SHALL S 1ANCE WITH TH	SUBMIT A FINAL E APPROVED	MATERIAL VERIFICATION OF STRUCTURAL STEEL COMPONENTS	1505.2.1 2203.1 TABLE 1705.2	ASTM A6 ASTM STANDARDS SPECIFIED IN CONSTRUCTION DOCUMENTS AISC 360 A3.1 AISC 360 N3.2	×	CERTIFIED MILL TEST REPORTS
5. FOR STEEL INSPECTIONS PER AISC 360 AND 341 (T QUALITY ASSURANCE (QA) IS REQUIRED FOR EACH QUALITY CONTROL (QC) TO BE PROVIDED BY THE I CONTRACTOR AND SPECIAL INSPECTOR TO DOCU	I ITEM IN TABLES FABRICATOR, ER	ECTOR OR OTHER I	RESPONSIBLE CONT	RACTOR AS AP	PLICABLE. SC 341 SECTION J2.	FOR OTHER STEEL, IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS	1705.2.2 1705.2.3 1705.2.4 TABLE 1705.2-4	APPLICABLE ASTM STANDARDS	х	MANUFACTURER'S CERTIFIED TEST REPORTS
5. INSPECTION TYPES CONTINUOUS : THE FULL-TIME OBSERVATION OF W PRESENT IN THE AREA WHERE THE WORK IS BEIN PERIODIC : THE PART-TIME OR INTERMITTENT OBS INSPECTOR WHO IS PRESENT IN THE AREA WHERE WORK. OBSERVE : OBSERVE THESE FUNCTIONS ON A RAM	G PERFORMED. ERVATION OF W E THE WORK HAS	ORK REQUIRING SP BEEN OR IS BEING	PECIAL INSPECTION G PERFORMED AND /	BY AN APPROVE T THE COMPLE	ED SPECIAL TION OF THE	MATERIAL VERIFICATION OF HIGH STRENGTH BOLTS, NUTS, AND WASHERS	AISC 360 N5	AISC 360 A3.3 AISC 360 N3.2 ASTM STANDARDS SPECIFIED IN CONSTRUCTION DOCUMENTS RCSC 2.1	×	MANUFACTURER'S CERTIFIED TEST REPORTS
PERFORM : INSPECTIONS SHALL BE PERFORMED F PERFORM INSPECTION PRIOR TO FINAL ACCEPTAN DEMONSTRATING UNDERSTANDING OF REQUIREM DESIGNATION OF THIS TASK SHALL BE REDUCED T DETERMINE THAT THE WELDER HAS DISCONTINUE	ICE OF THE ITEM ENTS AND POSS O OBSERVE, ANI D PERFORMANC	FOR TEN WELDS T ESSION OF SKILLS / D THE WELDER SHA E OF THIS TASK, TH	TO BE MADE BY A GIV AND TOOLS TO VER ALL PERFORM THIS ⁻ HE TASK SHALL BE F	FY THESE ITEM ASK. SHOULD 1 ETURNED TO P	S, THE PERFORM THE INSPECTOR ERFORM UNTIL	MATERIAL VERIFICATION OF ANCHOR BOLTS AND THREADED RODS		AISC 360 A3.4 AISC 360 N3.2 ASTM STANDARDS SPECIFIED IN CONSTRUCTION DOCUMENTS	x	MANUFACTURER'S CERTIFIED TEST REPORTS
SUCH TIME AS THE INSPECTOR HAS RE-ESTABLISH LISTED 8. SPECIAL INSPECTION OF MECHANICAL POST INSTA						MATERIAL VERIFICATION OF WELD FILLER METALS	1705.2.1.1 TABLE 1705.2-5	AISC 360 A3.5 AISC 360 N3.2 APPLICABLE AWS A5 DOCUMENTS	х	MANUFACTURER'S CERTIFIED TEST REPORTS
MANUFACTURERS INSTALLATION REQUIREMENTS. REQUIREMENTS.	ANCHOR INSTAL					STRUCTURAL STEEL WELDING VERIFYING USE OF PROPER WPS'S	1705.2.1 AISC 360 N5-4	AISC 360 N3.2		RETAIN A RECORD OF WELDING PROCEDURE
INSPECTION REPORTS SHALL IDENTIFY NAMES OF SPECIAL INSPECTOR SHALL PROVIDE DOCUMENTA	TION AT THE EN	D OF ANCHOR INST	FALLATIONS STATING	THAT THE ANC	HORS WERE	VERIFYING WELDER QUALIFICATIONS COMPLETE AND PARTIAL JOINT PENETRATION GROOVE	AISC 300 N5-4		X	SPECIFICATIONS RETAIN A RECORD OF QUALIFICATION CARDS
 INSPECTED PER APPROVED ANCHOR EVALUATION 	REPORT.					WELDS MULTIPASS FILLET WELDS			X	
	CIAL INSPECTOR	R TO PROVIDE DOC	UMENTATION IN ACC	ORDANCE WITI	HAISC 341.	SINGLE PASS FILLET WELDS GREATER THAN 5/16" PLUG AND SLOT WELDS	TABLE 1705.2-6	AWS D1.1 CLUASE 6	X	ALL WELDS VISUALLY INSPECTED PER AWS D1.16
DNTRACTOR RESPONSIBILITY:			PCE RESISTING SVS		OR SEISMIC	SINGLE PASS FILLET WELDS LESS THAN OR EQUAL TO 5/16"	1		X	
ESISTING COMPONENT LISTED IN TABLES 6 THROUGH 8 SH HE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON T HALL CONTAIN THE FOLLOWING:	ALL SUBMIT A WF	RITTEN STATEMENT	T OF RESPONSIBILIT	Y TÓ THE BUILD	DING OFFICIAL AND	VERIFICATION OF JOINT & CONNECTION DETAILS INCLUDING MEMBER AND COMPONENT LOCATIONS, BRACING, AND STIFFENERS HIGH-STRENGTH BOLTING		AISC 360 N5.7	X	
ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQ ACKNOWLEDGEMENT THAT CONTROL WILL BE EXE BY THE BUILDING OFFICIAL.						SNUG-TIGHT HIGH STRENGTH BOLT INSTALLATION		RCSC	x	ALL CONNECTIONS VISUALLY INSPECTED AND VERIFIED SNUG
PROCEDURES FOR EXERCISING CONTROL WITHIN DISTRIBUTION OF THE REPORTS.	THE CONTRACT	OR'S ORGANIZATION	N, THE METHOD AND	FREQUENCY C	F REPORTING AND	PRETENSIONED HIGH STRENGTH BOLT INSTALLATION USING TURN-OF-THE-NUT METHOD WITH MATCH MARKING, DIRECT TENSION INDICATOR METHOD, OR TWIST-OFF TYPE TENSION CONTROL BOLT METHOD	1705.2.1 TABLE 1705.2-2 AISC 360 M2-5 AISC 360 N5-6	SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS	×	ALL CONNECTIONS VISUALLY INSPECTED. CONNECTIONS USING DIRECT TENSION INDICATORS, ALL BOLTS SHALL BE INSPECTED AFTER SNUGGING AND AFTER PRETENSIONING
IDENTIFICATION AND QUALIFICATIONS OF THE PER	SON(S) EXERCIS	ING SUCH CONTRO	OL AND THEIR POSITI	ON(S) IN THE OF	RGANIZATION.	PRETENSIONED HIGH STRENGTH BOLT INSTALLATION USING TURN-OF-THE-NUT METHOD WITHOUT MATCH MARKING OR CALIBRATED WRENCH METHOD	AISC 300 N3-0	SECTION 9 AISC 360 SECTION M2.5	x	ALL CONNECTIONS VISUALLY INSPECTED
-	TABLE 1 - GEO	OTECHNICAL - S	SPECIAL INSPEC	TIONS		INSPECTION TASKS PRIOR TO BOLTING				HIGH STRENGTH BOLTS
SYSTEM OR MATERIAL	OSSC CODE	INSPEC CODE OR	CTION FREQUENCY	NOTE 6)	REMARKS	MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS			x	
	REFERENCE	STANDARDS REFERENCE SOILS	CONTINUOUS	PERIODIC		FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	-		X	
VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY		30123		X		PROPER FASTENERS SELECTED FOR THE JOINT DETAI (GRADE, TYPE, BOLT LENGTH, IF THREADS ARE TO BE	-		х	
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL				Х		EXCLUDED FROM THE SHEAR PLANE) PROPER BOLTING PROCEDURE SELECTED FOR JOINT	-	AISC 360	x	
PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS /ERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT FICKNESSES DURING PLACEMENT AND COMPACTION OF	1705.6	GEOTECHNICAL REPORT	x		BY THE GEOTECHNICAL ENGINEER OR QUALIFIED	DETAIL CONNECTING ELEMENTS< INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE BEOLUREMENTS	1705.2.1.2 TABLE 1705.2-2	TABLE N5.6-1 AISC 360 M2.5	x	
CONTROLLED FILL PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY				х		REQUIREMENTS PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND	1		x	
						METHODS USED PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	1		x	
	TABLE 2 -	GENERAL - SPE	ECIAL INSPECTI	ONS		INSPECTION TASKS DURING BOLTING FASTENER ASSEMBLIES. OF SUITABLE CONDITION.				HIGH STRENGTH BOLTS
SYSTEM OR MATERIAL	OSSC CODE	CODE OR STANDARD	FREQUENC		REMARKS	PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	1	AISC 360 TABLE N5.6-2 AISC M2.5	Х	
	REFERENCE	REFERENCE	CONTINUOUS	PERIODIC		JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION EASTENER COMPONENT NOT TURNED BY THE WRENCH	1705.2.1.2	RCSC	Х	
					SPECIAL INSPECTION IS REQUIRED FOR STRUCTURAL LOAD-BEARING MEMBERS AND	FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING FASTENERS ARE PRETENSIONED IN ACCORDANCE	TABLE 1705.2-2	FOR STRUCTURAL JOINTS USING ASTM A325 OR	X	
					ASSEMBLIES FABRICATED ON THE PREMISES OF A FABRICATOR'S SHOP PER MATERIAL SPECIFIC TABLES AND AS REQUIRED ELSEWHERE IN THE	WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES		A490 BOLTS SECTION 9	х	
FABRICATORS	1704.2.5				SPECIAL INSPECTION PROGRAM. THE SPECIAL INSPECTOR SHALL VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES AND SHALL REVIEW FOR COMPLETENESS AND ADEQUACY RELATIVE TO THE	INSPECTION TASKS AFTER BOLTING DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	1705.2.1.2 TABLE 1705.2-2	AISC 360 TABLE N5.6-3	X	HIGH STRENGTH BOLTS
					CODE REQUIREMENT. REFERENCE SECTION 1704.2.5.2 FOR APPROVED FABRICATOR EXCEPTION.				•	
DEFERRED SUBMITTALS			x	х	SPECIAL INSPECTION REQUIREMENTS FOR DEFERRED SUBMITTAL ITEMS, INCLUDING REQUIREMENTS FOR DESIGNATED SEISMIC SYSTEMS IN ACCORDANCE WITH OSSC SECTION 1705.11.4 IF APPLICABLE, TO BE SPECIFIED BY THE SYSTEM ENGINEER AND INCLUDED WITH DEFERRED SUBMITAL DOCUMENTS.					
PRE-ENGINEERED STRUCTURES	1705.1.1	MBMA	X	X	REFER TO DEFERRED SUBMITTALS AND FABRICATORS REQUIREMENTS					
FIBER-REINFORCED COMPOSITE SYSTEMS	1705.1.1	AC178			MATERIALS AND INSTALLATION SPECIAL					

SPECIAL INSPECTION AND TESTING PROGRAM

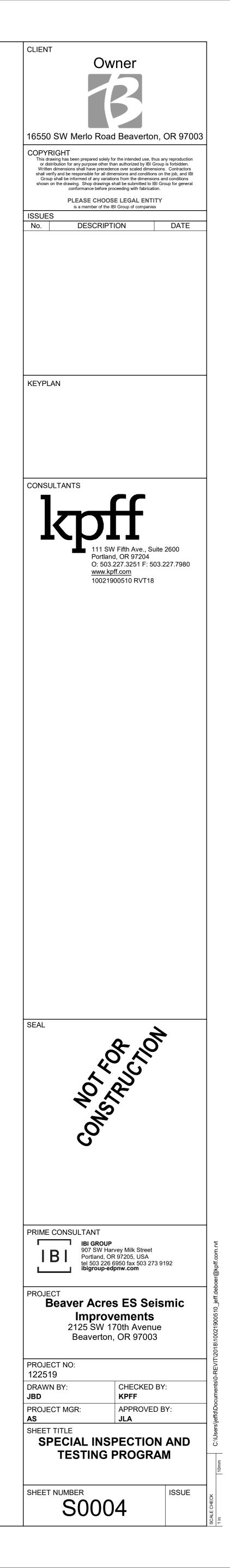


	TABLE 4 - (CONCRETE - SPE		ONS	-	
		CODE OR	FREQUENCY	(NOTE 6)		
SYSTEM OR MATERIAL	OSSC CODE REFERENCE	STANDARD REFERENCE	CONTINUOUS	PERIODIC	REMARKS	
GENERAL	1705.3 1901.6	ACI 318: 26.13			SPECIAL INSPECTIONS OF CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF SECTION 1705.3 OF THE IBC AND SECTION 26.13 OF ACI 318.	
REINFORCING STEEL PLACEMENT	1901.5.2	ACI 318: CH. 20, 25.2, 25.3, 26.6.1-26.6.3		x	REINFORCING TO COMPLY WITH ALL CODE PROTECTION, SPACING AND TOLERANCE LIMITS.	
INSPECT ANCHORS/BOLTS CAST IN CONCRETE	-	ACI 318: 17.8.2	Х	х	ALL CAST-IN-PLACE ANCHORS/BOLTS SHALL BE VISUALLY INSPECTED. REFERENCE STEEL INSPECTIONS FOR ADDITIONAL INSTALLATION, MATERIAL AND WELDING INSPECTIONS OF STEEL ITEMS EMBEDDED IN CONCRETE (HEADED STUDS, DBA's, ETC.)	
POST INSTALLED ANCHOR INSTALLATION IN HARDENED CONCRETE AND COMPLETED MASONRY						
1. ADHESIVE ANCHORS WITH SUSTAINED TENSION LOADS INSTALLED HORIZONTALLY OR AT AN UPWARD INCLINE		ACI 318: 17.8.2.4	х		INSPECTION REQUIREMENTS PER ICC EVALUATION REPORT	
2. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN NOTE ABOVE		ACI 318: 17.8.2		х		
VERIFYING USE OF REQUIRED MIX DESIGN(S)	1904.1 1904.2	ACI 318: CH. 19, 26.4.3, 26.4.4		x		
CONCRETE SPECIMENS FOR TESTING		ASTM C172 ASTM C31 ACI 318: 26.5, 26.12	х		PRIOR TO CONCRETE PLACEMENT, FABRICATE CONCRETE SPECIMENS FOR TESTING. SEE THE TESTING TABLES BELOW FOR ADDITIONAL INFORMATION.	
CONCRETE PLACEMENT, NON-SHRINK GROUT	1908.6-8	ACI 318: 26.5	х			
CONCRETE CURING	1908.9	ACI 318: 26.5.3 - 26.5.5		х		
VERIFICATION OF FORMWORK		ACI 318: 26.11.2 (b)		х	SPECIAL INSPECTIONS APPLY TO SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	
EMBEDDED ITEMS IN CONCRETE				x	ALL NON-STRUCTURAL EMBEDDED ITEMS, SUCH AS CONDUITS, PIPES AND SLEEVES, SHALL BE REVIEWED FOR CONFORMANCE WITH STRUCTURAL DOCUMENTS FOR SIZE, SPACING, LOCATION, EDGE DISTANCE AND TRIM REINFORCING.	
REINFORCING STEEL MECHANICAL COUPLERS, TERMINATORS AND FORMSAVERS		ICC EVALUATION REPORTS		х		

TABLE 5 - WOOD - SPECIAL INSPECTIONS						
			FREQUENCY (NOTE 6)			
SYSTEM OR MATERIAL	OSSC CODE REFERENCE	STANDARD REFERENCE	CONTINUOUS	PERIODIC	REMARKS	
	WOOD - REQ	UIRED SEISMIC RESI	STANCE INSPECTIC	NS		
CONNECTIONS FOR DIAPHRAGM CHORDS, COLLECTORS, BRACING, AND SHEAR WALL ANCHORAGE AND HOLDOWNS	1705.12.2			X	ALL FASTENERS/CONNECTIONS VISUALLY INSPECTED	
FASTENING OF DIAPHRAGM AND SHEAR WALL SHEATHING WITH EDGE NAILING < 4"	1705.12.2			х	FOR WOOD SHEAR WALLS, SHEAR PANELS, AND DIAPHRAGMS. THIS INCLUDES NAILING, BOLTING, ANCHORING AND OTHER FASTENING TO OTHER COMPONENTS IN THE SEISMIC FORCE RESISTING SYSTEM	

TABLE 6 - GEOTECHNICAL - TESTING						
			FREQUENCY	(NOTE 6)		
SYSTEM OR MATERIAL	OSSC CODE REFERENCE	CODE OR STANDARD REFERENCE	CONTINUOUS PERIODIC		REMARKS	
FILL IN-PLACE DENSITY OR PREPARED SUBGRADE DENSITY	1705.6	VARIES; GEOTECHNICAL REPORT OR MINIMUM PER IBC APPENDIX J107.5, WHICHEVER IS GREATER		X	BY THE GEOTECHNICAL ENGINEER OR QUALIFIED SPECIAL INSPECTOR	
MATERIAL VERIFICATION		VARIES; CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS		х	BY THE GEOTECHNICAL ENGINEER OR QUALIFIED SPECIAL INSPECTOR	

SPECIAL INSPECTION AND TESTING PROGRAM CONT.

SYSTEM OR MATERIAL

ULTRASONIC (UT) TESTING OF WELDS

MAGNETIC PARTICLE (MT) TESTING OF WELDS

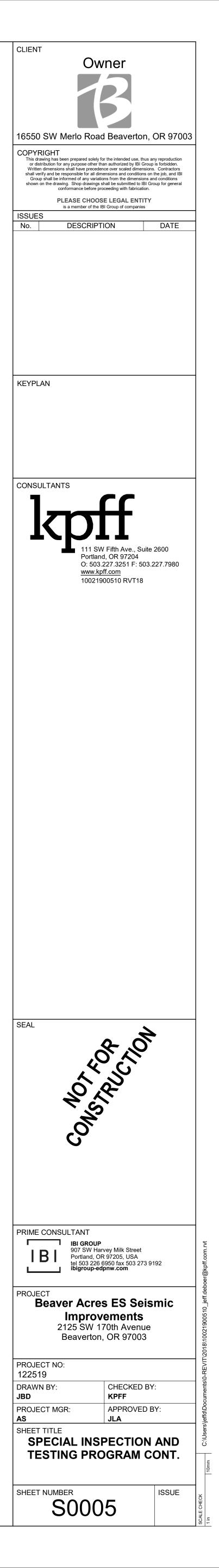
PRE-CONSTRUCTION TESTING OF WELDING STUD WELDED REINFORCING BARS AND DBA'S STUD/DBA APPLICATION QUALIFICATION

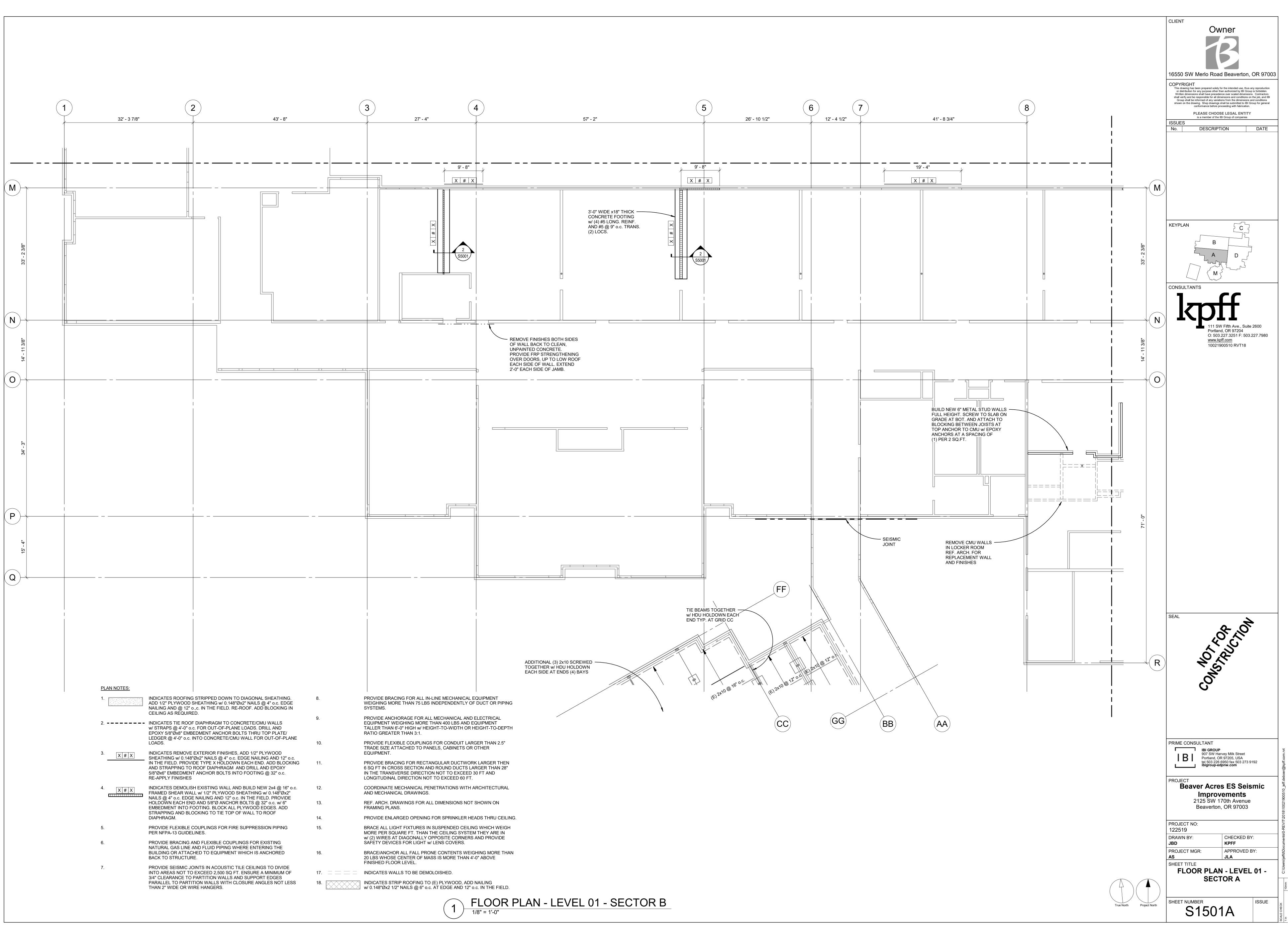
SYSTEM OR MATERIAL

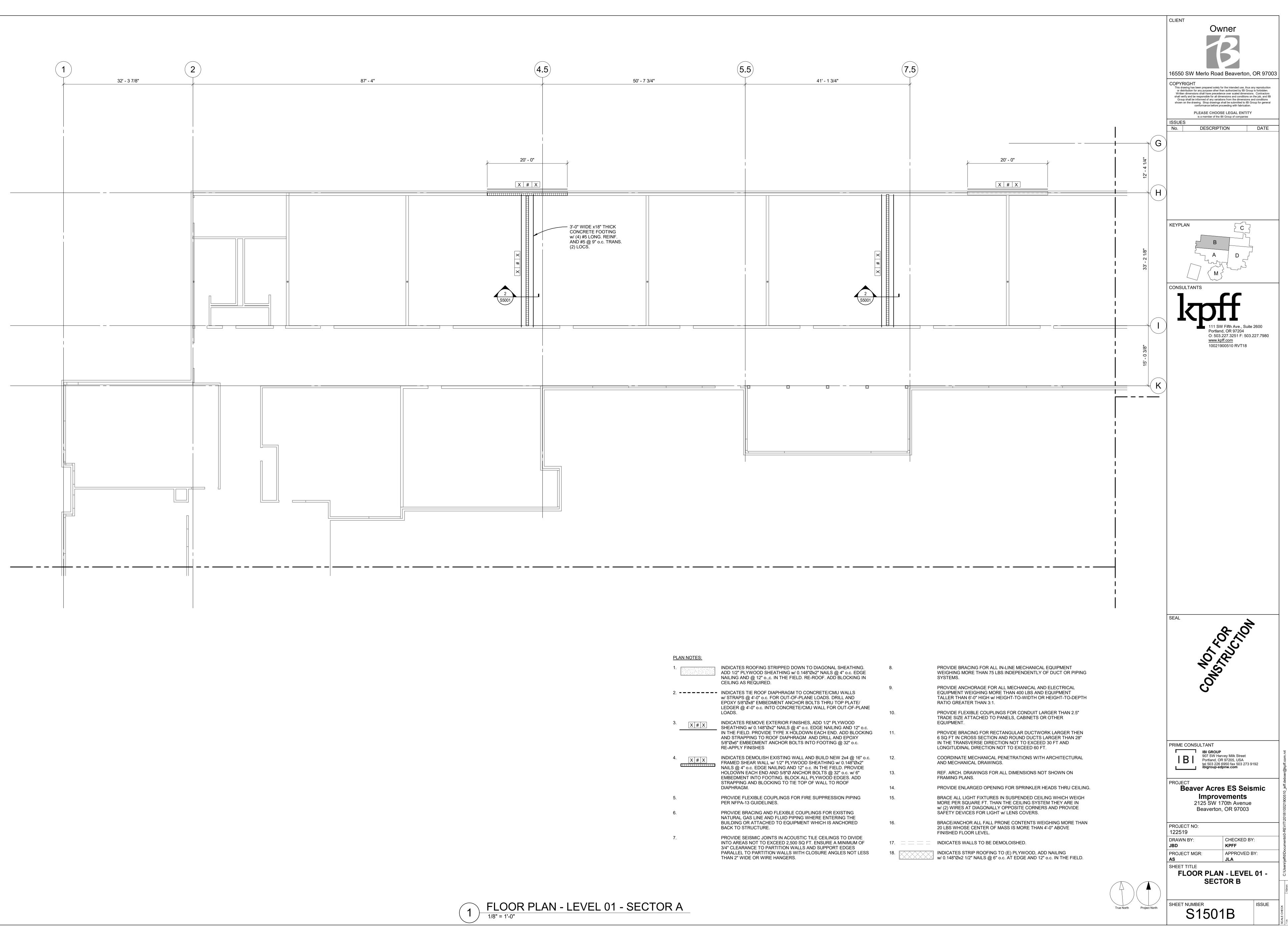
CONCRETE STRENGTH CONCRETE SLUMP CONCRETE AIR CONTENT CONCRETE TEMPERATURE

	TA	BLE 7 - STEEL -	TESTING		
			FREQUENCY	(NOTE 6)	
	OSSC CODE REFERENCE	CODE OR STANDARD REFERENCE	CONTINUOUS PERIODIC		REMARKS
		STEEL			
	1705.2.1	AWS D1.1 6.13 & 6.14.3			ALL C.J.P. WELDS 5/16" AND THICKER REQUIRE UT TESTING.
	1705.2.1	AWS D1.1 6.14.4 AISC360 N5.5c			REQUIRED AT THERMALLY CUT ACCESS HOLES WHERE FLANGE THICKNESS EXCEEDS 2" FOR ROLLED SHAPES OR WHEN THE WEB THICKNESS EXCEEDS 2" FOR BUILT-UP SHAPES. REQUIRED WHERE SPECIFICALLY NOTED ON DRAWINGS OR AS DIRECTED BY KPFF AT WELDS IDENTIFIED TO BE IN QUESTION BASED ON INSPECTIONS
IDS,	1705.2.1	AWS D1.1 7.7.1			THIS TESTING PERFORMED BY CONTRACTOR AND CONFIRMED BY SPECIAL INSPECTOR
	1705.2.1	AWS D1.1 7.6	NON-PREQU APPLICAT		THIS TESTING PERFORMED BY CONTRACTOR AND CONFIRMED BY SPECIAL INSPECTOR

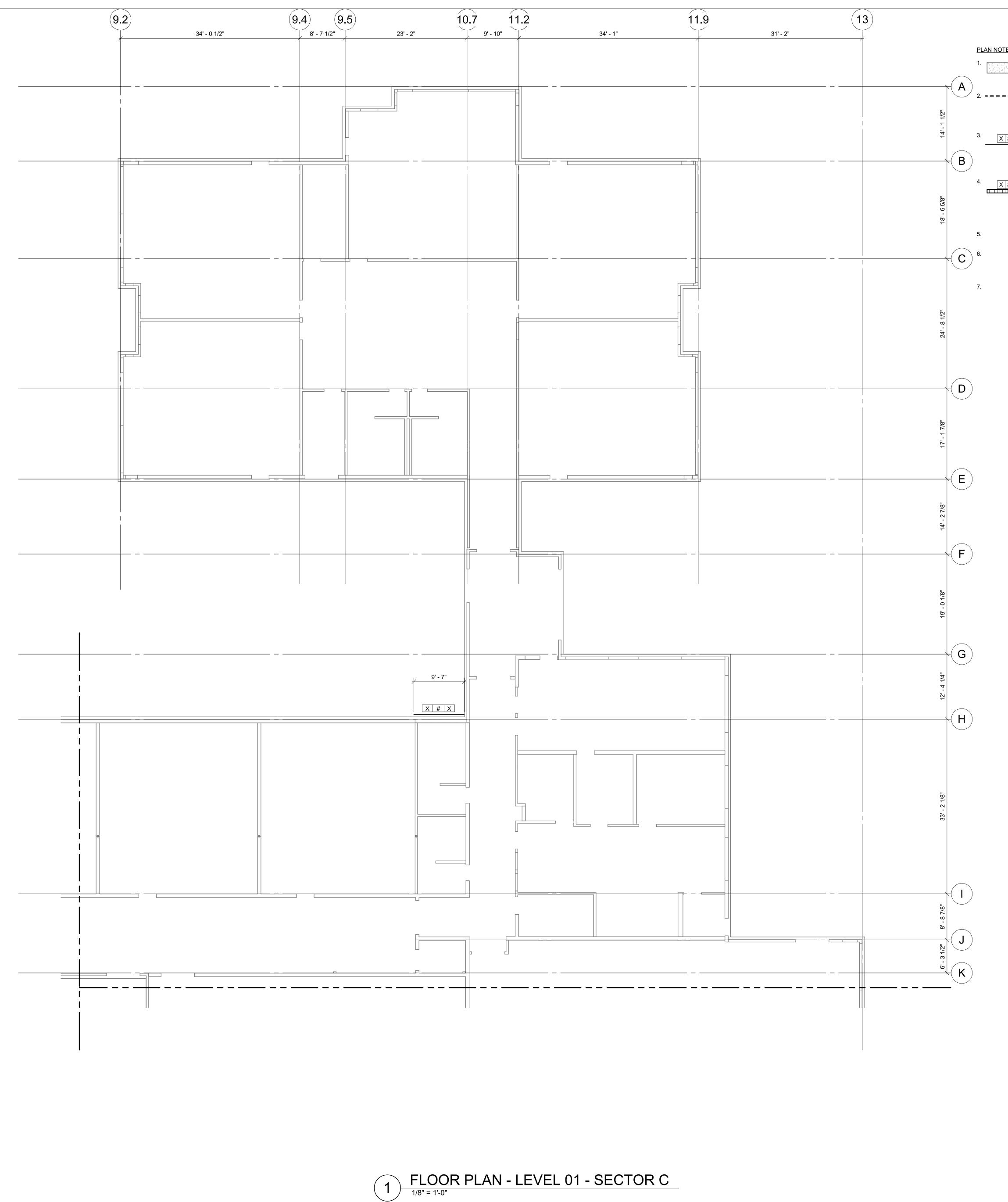
TABI	LE 8 - CONCRET	E - TESTING		-
	CODE OR	FREQUENCY	(NOTE 6)	
OSSC CODE REFERENCE	STANDARD REFERENCE	CONTINUOUS	PERIODIC	REMARKS
	CONCRETE			
1705.3	ASTM C39			
ASTM C172	ASTM C143	EACH 150 CY NOR LESS THAN EADDIONTE ODEONAENO AT THE EDE		
ASTM C 31	ASTM C231	EACH 5000 SE OF SLAB OR		FABRICATE SPECIMENS AT TIME FRESH CONCRETE
ACI 318 26.12, 25.6.2.1	ASTM C1064			IS PLACED



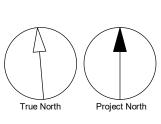


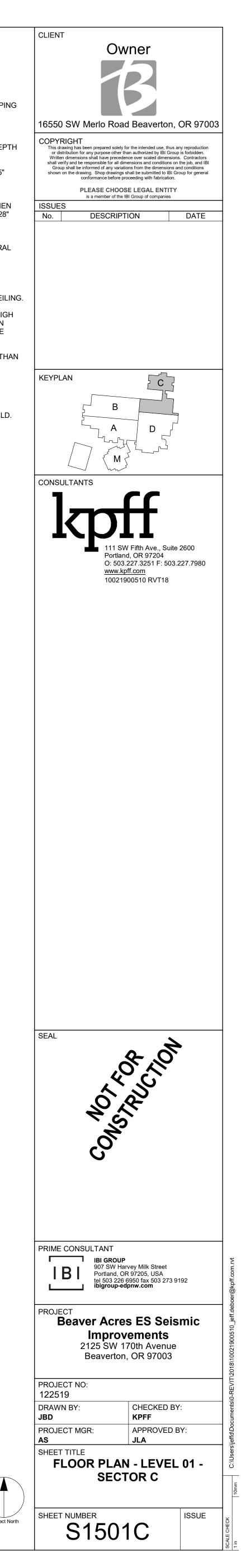


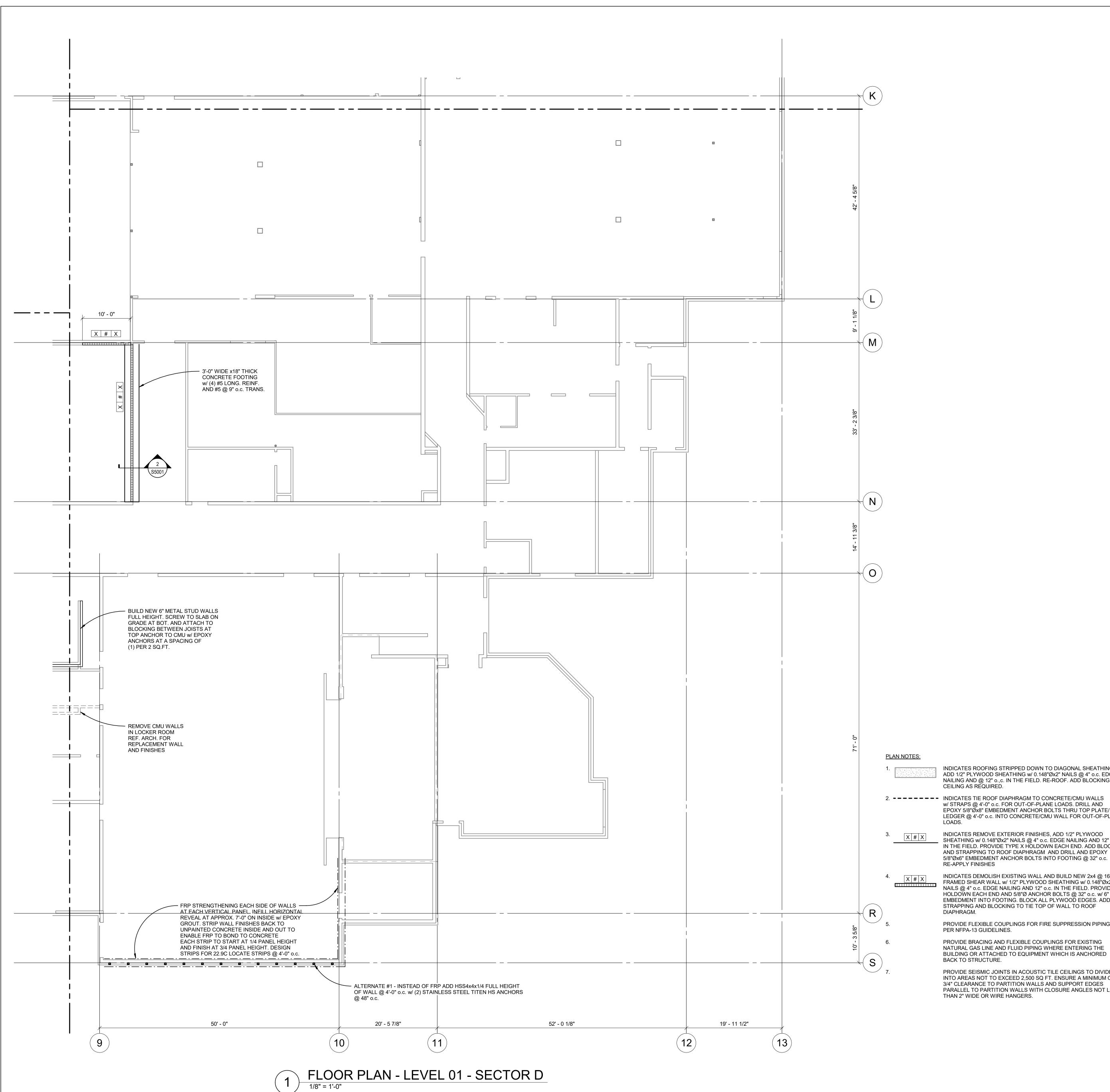
NG STRIPPED DOWN TO DIAGONAL SHEATHING. D SHEATHING w/ 0.148"Øx2" NAILS @ 4" o.c. EDGE 2" o.,c. IN THE FIELD. RE-ROOF. ADD BLOCKING IN IRED.	8.	PROVIDE BRACING FOR ALL IN-LINE WEIGHING MORE THAN 75 LBS INDEI SYSTEMS.
OF DIAPHRAGM TO CONCRETE/CMU WALLS 0.c. FOR OUT-OF-PLANE LOADS. DRILL AND MBEDMENT ANCHOR BOLTS THRU TOP PLATE/ c. INTO CONCRETE/CMU WALL FOR OUT-OF-PLANE	9.	PROVIDE ANCHORAGE FOR ALL MEC EQUIPMENT WEIGHING MORE THAN TALLER THAN 6'-0" HIGH w/ HEIGHT-T RATIO GREATER THAN 3:1.
VE EXTERIOR FINISHES, ADD 1/2" PLYWOOD 48"Øx2" NAILS @ 4" o.c. EDGE NAILING AND 12" o.c.	10.	PROVIDE FLEXIBLE COUPLINGS FOR TRADE SIZE ATTACHED TO PANELS, EQUIPMENT.
DVIDE TYPE X HOLDOWN EACH END. ADD BLOCKING TO ROOF DIAPHRAGM AND DRILL AND EPOXY ENT ANCHOR BOLTS INTO FOOTING @ 32" o.c. ES	11.	PROVIDE BRACING FOR RECTANGUL 6 SQ FT IN CROSS SECTION AND ROU IN THE TRANSVERSE DIRECTION NO LONGITUDINAL DIRECTION NOT TO B
LISH EXISTING WALL AND BUILD NEW 2x4 @ 16" o.c. VALL w/ 1/2" PLYWOOD SHEATHING w/ 0.148"Øx2" DGE NAILING AND 12" o.c. IN THE FIELD. PROVIDE	12.	COORDINATE MECHANICAL PENETRA AND MECHANICAL DRAWINGS.
END AND 5/8"Ø ANCHOR BOLTS @ 32" o.c. w/ 6") FOOTING. BLOCK ALL PLYWOOD EDGES. ADD BLOCKING TO TIE TOP OF WALL TO ROOF	13.	REF. ARCH. DRAWINGS FOR ALL DIM FRAMING PLANS.
	14.	PROVIDE ENLARGED OPENING FOR
E COUPLINGS FOR FIRE SUPPRESSION PIPING DELINES. G AND FLEXIBLE COUPLINGS FOR EXISTING	15.	BRACE ALL LIGHT FIXTURES IN SUSF MORE PER SQUARE FT. THAN THE C w/ (2) WIRES AT DIAGONALLY OPPOS SAFETY DEVICES FOR LIGHT w/ LENS
IE AND FLUID PIPING WHERE ENTERING THE ACHED TO EQUIPMENT WHICH IS ANCHORED URE.	16.	BRACE/ANCHOR ALL FALL PRONE CO 20 LBS WHOSE CENTER OF MASS IS FINISHED FLOOR LEVEL.
US JOINTS IN ACOUSTIC TILE CEILINGS TO DIVIDE TO EXCEED 2,500 SQ FT. ENSURE A MINIMUM OF O PARTITION WALLS AND SUPPORT EDGES	17. = = = =	INDICATES WALLS TO BE DEMOLOIS
RTITION WALLS AND SUPPORT EDGES RTITION WALLS WITH CLOSURE ANGLES NOT LESS WIRE HANGERS.	18.	INDICATES STRIP ROOFING TO (E) P w/ 0.148"Øx2 1/2" NAILS @ 6" o.c. AT E

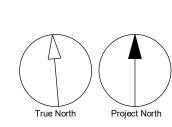


OTES:				
	INDICATES ROOFING STRIPPED DOWN TO DIAGONAL SHEATHING. ADD 1/2" PLYWOOD SHEATHING w/ 0.148"Øx2" NAILS @ 4" o.c. EDGE NAILING AND @ 12" o.,c. IN THE FIELD. RE-ROOF. ADD BLOCKING IN CEILING AS REQUIRED.	8.		PROVIDE BRACING FOR ALL IN-LINE MECHANICAL EQUIPMENT WEIGHING MORE THAN 75 LBS INDEPENDENTLY OF DUCT OR PIPING SYSTEMS.
	INDICATES TIE ROOF DIAPHRAGM TO CONCRETE/CMU WALLS w/ STRAPS @ 4'-0" o.c. FOR OUT-OF-PLANE LOADS. DRILL AND EPOXY 5/8"Øx8" EMBEDMENT ANCHOR BOLTS THRU TOP PLATE/ LEDGER @ 4'-0" o.c. INTO CONCRETE/CMU WALL FOR OUT-OF-PLANE	9.		PROVIDE ANCHORAGE FOR ALL MECHANICAL AND ELECTRICAL EQUIPMENT WEIGHING MORE THAN 400 LBS AND EQUIPMENT TALLER THAN 6'-0" HIGH w/ HEIGHT-TO-WIDTH OR HEIGHT-TO-DEPTH RATIO GREATER THAN 3:1.
	LOADS. INDICATES REMOVE EXTERIOR FINISHES, ADD 1/2" PLYWOOD	10.		PROVIDE FLEXIBLE COUPLINGS FOR CONDUIT LARGER THAN 2.5" TRADE SIZE ATTACHED TO PANELS, CABINETS OR OTHER EQUIPMENT.
X # X	SHEATHING w/ 0.148"Øx2" NAILS @ 4" o.c. EDGE NAILING AND 12" o.c. IN THE FIELD. PROVIDE TYPE X HOLDOWN EACH END. ADD BLOCKING AND STRAPPING TO ROOF DIAPHRAGM AND DRILL AND EPOXY 5/8"Øx6" EMBEDMENT ANCHOR BOLTS INTO FOOTING @ 32" o.c. RE-APPLY FINISHES	11.		PROVIDE BRACING FOR RECTANGULAR DUCTWORK LARGER THEN 6 SQ FT IN CROSS SECTION AND ROUND DUCTS LARGER THAN 28" IN THE TRANSVERSE DIRECTION NOT TO EXCEED 30 FT AND LONGITUDINAL DIRECTION NOT TO EXCEED 60 FT.
X # X	INDICATES DEMOLISH EXISTING WALL AND BUILD NEW 2x4 @ 16" o.c. FRAMED SHEAR WALL w/ 1/2" PLYWOOD SHEATHING w/ 0.148"Øx2" NAILS @ 4" o.c. EDGE NAILING AND 12" o.c. IN THE FIELD. PROVIDE	12.		COORDINATE MECHANICAL PENETRATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
F	HOLDOWN EACH END AND 5/8"Ø ANCHOR BOLTS @ 32" o.c. w/ 6" EMBEDMENT INTO FOOTING. BLOCK ALL PLYWOOD EDGES. ADD STRAPPING AND BLOCKING TO TIE TOP OF WALL TO ROOF	13.		REF. ARCH. DRAWINGS FOR ALL DIMENSIONS NOT SHOWN ON FRAMING PLANS.
	DIAPHRAGM.	14.		PROVIDE ENLARGED OPENING FOR SPRINKLER HEADS THRU CEILING.
	PROVIDE FLEXIBLE COUPLINGS FOR FIRE SUPPRESSION PIPING PER NFPA-13 GUIDELINES.	15.		BRACE ALL LIGHT FIXTURES IN SUSPENDED CEILING WHICH WEIGH MORE PER SQUARE FT. THAN THE CEILING SYSTEM THEY ARE IN w/ (2) WIRES AT DIAGONALLY OPPOSITE CORNERS AND PROVIDE
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	PROVIDE SEISMIC JOINTS IN ACOUSTIC TILE CEILINGS TO DIVIDE INTO AREAS NOT TO EXCEED 2,500 SQ FT. ENSURE A MINIMUM OF 3/4" CLEARANCE TO PARTITION WALLS AND SUPPORT EDGES	17.	====	INDICATES WALLS TO BE DEMOLOISHED.
	PARALLEL TO PARTITION WALLS WITH CLOSURE ANGLES NOT LESS THAN 2" WIDE OR WIRE HANGERS.	18.		INDICATES STRIP ROOFING TO (E) PLYWOOD, ADD NAILING w/ 0.148"Øx2 1/2" NAILS @ 6" o.c. AT EDGE AND 12" o.c. IN THE FIELD.









	IN THE FIELD. PROVIDE TYPE X HOLDOWN EACH END. ADD BLOCKING AND STRAPPING TO ROOF DIAPHRAGM AND DRILL AND EPOXY 5/8"Øx6" EMBEDMENT ANCHOR BOLTS INTO FOOTING @ 32" o.c. RE-APPLY FINISHES	11.
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INDICATES ROOFING STRIPPED DOWN TO DIAGONAL SHEATHING.

ADD 1/2" PLYWOOD SHEATHING w/ 0.148"Øx2" NAILS @ 4" o.c. EDGE NAILING AND @ 12" o.,c. IN THE FIELD. RE-ROOF. ADD BLOCKING IN

EPOXY 5/8"Øx8" EMBEDMENT ANCHOR BOLTS THRU TOP PLATE/ LEDGER @ 4'-0" o.c. INTO CONCRETE/CMU WALL FOR OUT-OF-PLANE

INDICATES REMOVE EXTERIOR FINISHES, ADD 1/2" PLYWOOD ____ SHEATHING w/ 0.148"Øx2" NAILS @ 4" o.c. EDGE NAILING AND 12" o.c.

CEILING AS REQUIRED.

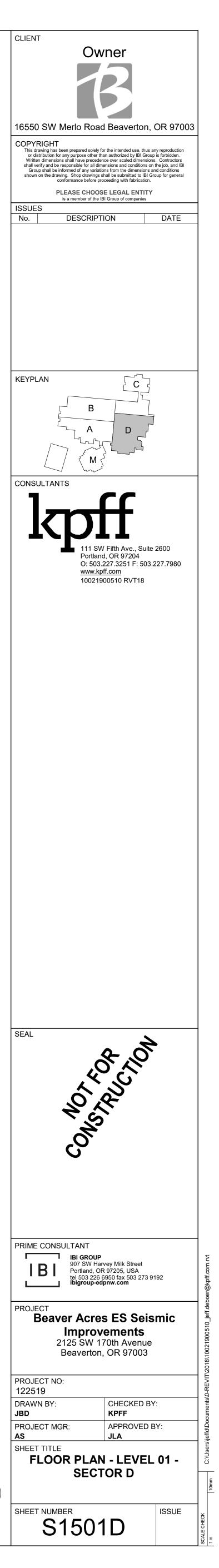
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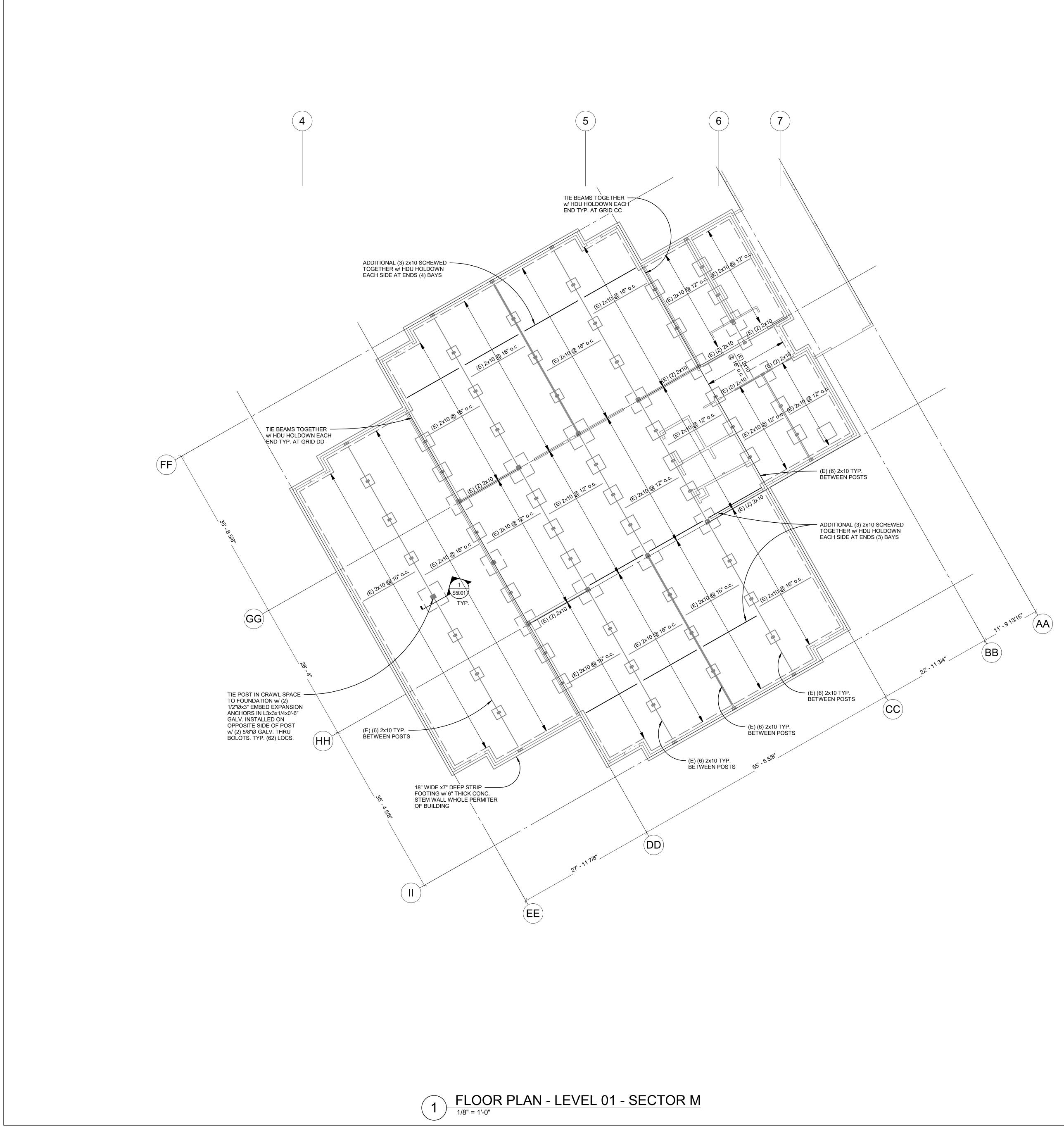
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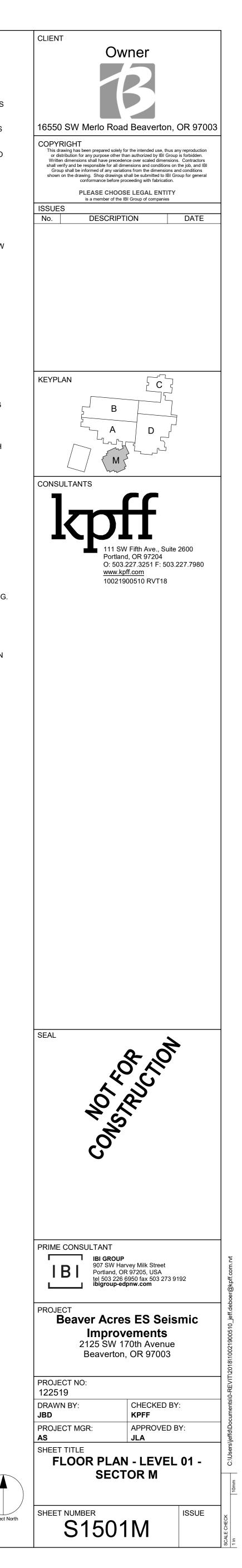
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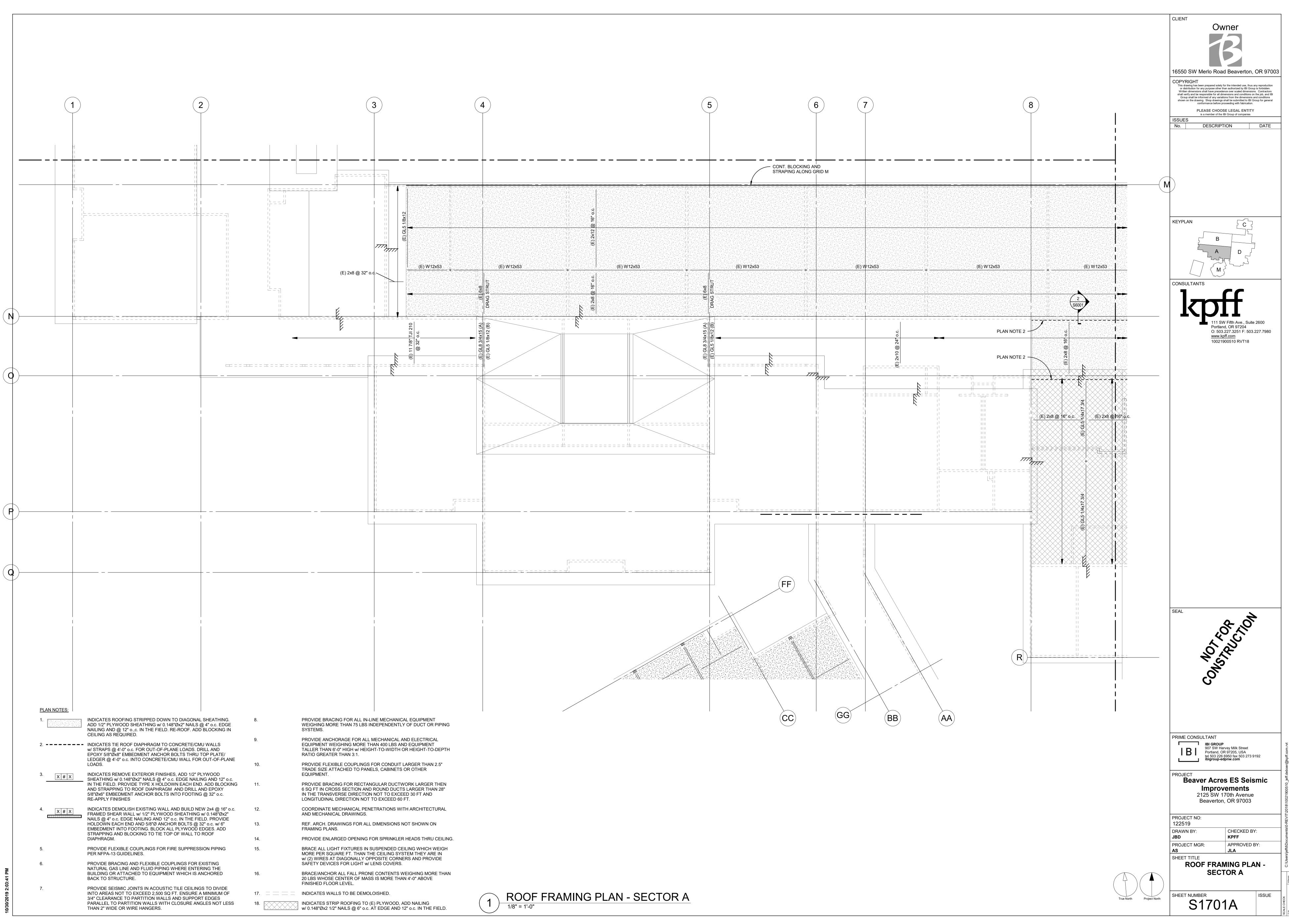


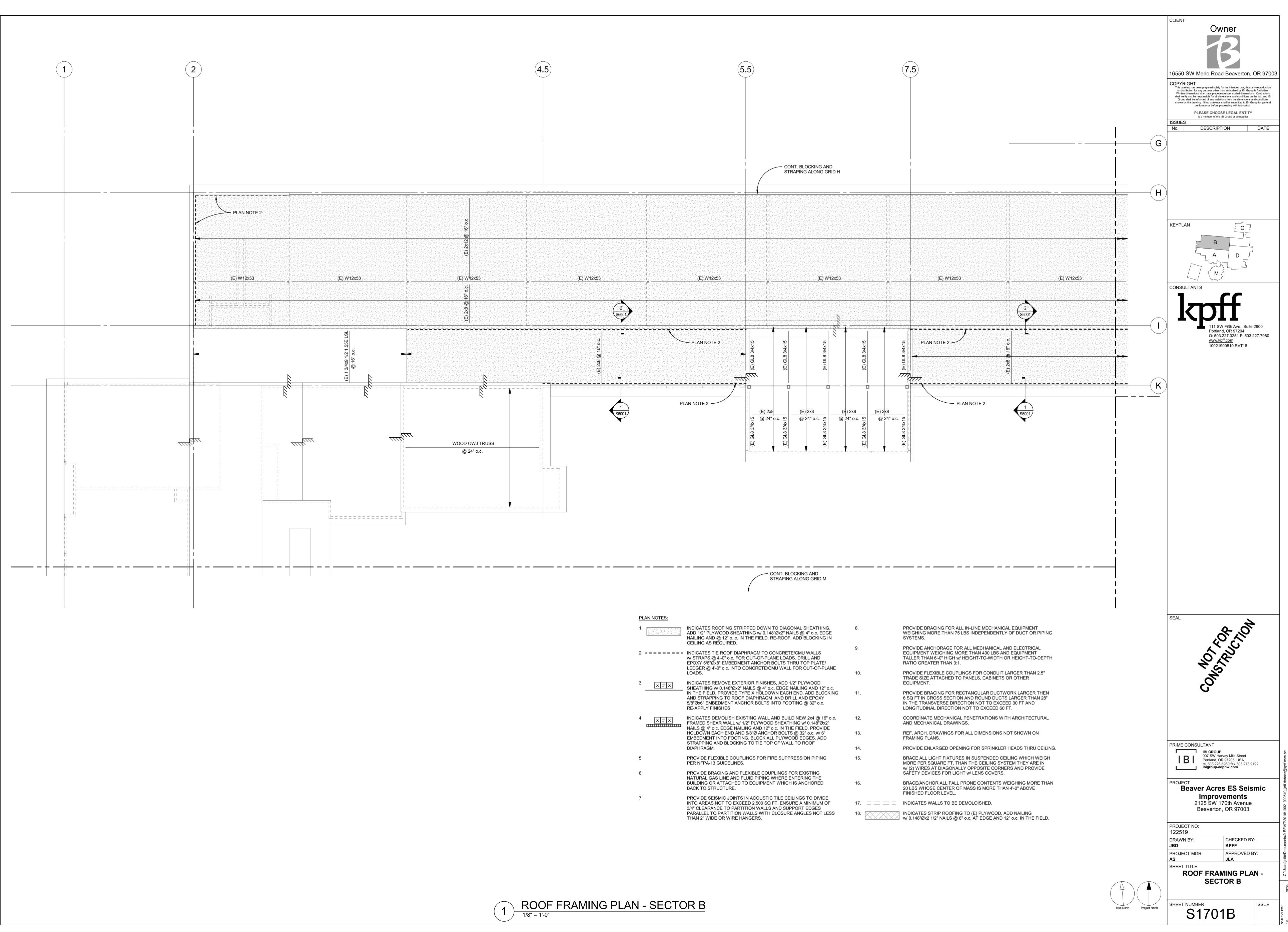


PLAN NOTES:	
1. Structure and the second structure in the second st	INDICATES RE-ROOF w/ BLOCKING WHERE REQUIRED AND ADDED NAILING FOR (E) PLYWOOD ROOF AND WOOD BLOCKING UNDER THE FIRST FLOOR DIAPHRAGM. PROVIDE STEEL PLATE COLLECTORS ON EACH SIDE OF ROOF POP-UP.
2	INDICATES 1/2" PLYWOOD SHEATHED WOOD SHEAR CRIPPLE WALLS IN CRAWL SPACE w/ 2x6 STUDS @ 16" o.c. AND 2'-0" WIDE x1'-6" DEEP STRIP FOOTING w/ 150 LBS/CY REINFORCING. PROVIDE HOLDOWNS EACH END OF SHEAR WALL AND 5/8"Ø ANCHOR BOLTS @ 4'-0" o.c. TO TIE 3x6 PT SILL PLATE TO STRIP FOOTING. PROVIDE BLOCKING AND STRAPPING AT TOP OF WALL TO FLOOR DIAPHRAGM. NOTE THAT DIGGING IN CRAWL SPACE MAY REQUIRE FLOORING TO BE LIFTED TO GAIN SUFFICIENT ACCESS AND ROOF TO WORK.
3.	INDICATES REMOVE FINISHES ONE SIDE OF WALL AND ADD 1/2" PLYWOOD SHEATHING. CONNECT TO CRIPPLE WALL BELOW AND PROVIDE STRAPPING AND BLOCKING AT TOP OF WALL TO ROOF DIAPHRAGM. REINSTALL WALL FINISHES PER ARCH.
4. VB	INDICATES DIAGONAL ROD BRACING BETWEEN HIGH ROOF AND LOW ROOF. CONNECT TO WINDOW HEADER AND DOUBLE 2x SILL PLATE WITH STEEL PLATES.
5.	PROVIDE FLEXIBLE COUPLINGS FOR FIRE SUPPRESSION PIPING PER NFPA-13 GUIDELINES.
6.	PROVIDE BRACING AND FLEXIBLE COUPLINGS FOR EXISTING NATURAL GAS LINE AND FLUID PIPING WHERE ENTERING THE BUILDING OR ATTACHED TO EQUIPMENT WHICH IS ANCHORED BACK TO STRUCTURE.
7.	PROVIDE SEISMIC JOINTS IN ACOUSTIC TILE CEILINGS TO DIVIDE INTO AREAS NOT TO EXCEED 2,500 SQ FT. ENSURE A MINIMUM OF 3/4" CLEARANCE TO PARTITION WALLS AND SUPPORT EDGES PARALLEL TO PARTITION WALLS WITH CLOSURE ANGLES NOT LESS THAN 2" WIDE OR WIRE HANGERS.
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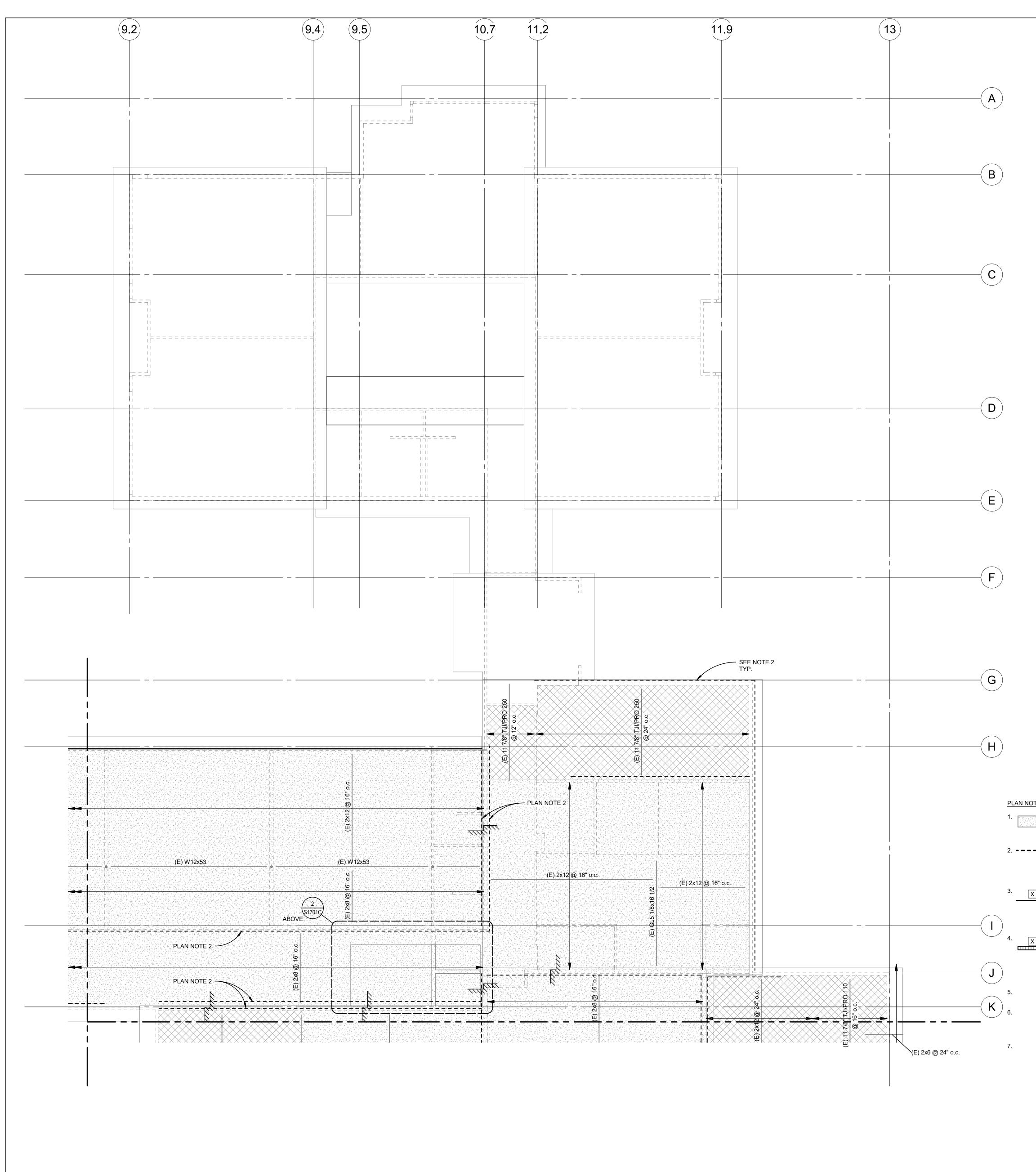
True North Project North



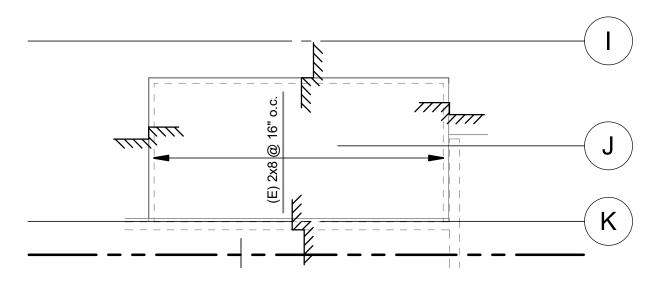




PLAN NOTES:	
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2	INDICATES TIE ROOF DIAPHRAGM w/ STRAPS @ 4'-0" o.c. FOR OUT-OF EPOXY 5/8"Øx8" EMBEDMENT ANCH LEDGER @ 4'-0" o.c. INTO CONCRE LOADS.
3. X # X	INDICATES REMOVE EXTERIOR FIN SHEATHING w/ 0.148"Øx2" NAILS @ IN THE FIELD. PROVIDE TYPE X HO AND STRAPPING TO ROOF DIAPHR 5/8"Øx6" EMBEDMENT ANCHOR BO RE-APPLY FINISHES
4. X # X	INDICATES DEMOLISH EXISTING W FRAMED SHEAR WALL w/ 1/2" PLYV NAILS @ 4" o.c. EDGE NAILING AND HOLDOWN EACH END AND 5/8"Ø A EMBEDMENT INTO FOOTING. BLOC STRAPPING AND BLOCKING TO TIE DIAPHRAGM.
5.	PROVIDE FLEXIBLE COUPLINGS FO PER NFPA-13 GUIDELINES.
6.	PROVIDE BRACING AND FLEXIBLE NATURAL GAS LINE AND FLUID PIP BUILDING OR ATTACHED TO EQUIF BACK TO STRUCTURE.
7.	PROVIDE SEISMIC JOINTS IN ACOUNTO AREAS NOT TO EXCEED 2,500 3/4" CLEARANCE TO PARTITION W/ PARALLEL TO PARTITION WALLS W THAN 2" WIDE OR WIRE HANGERS.



(1)

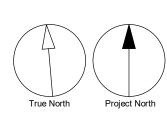


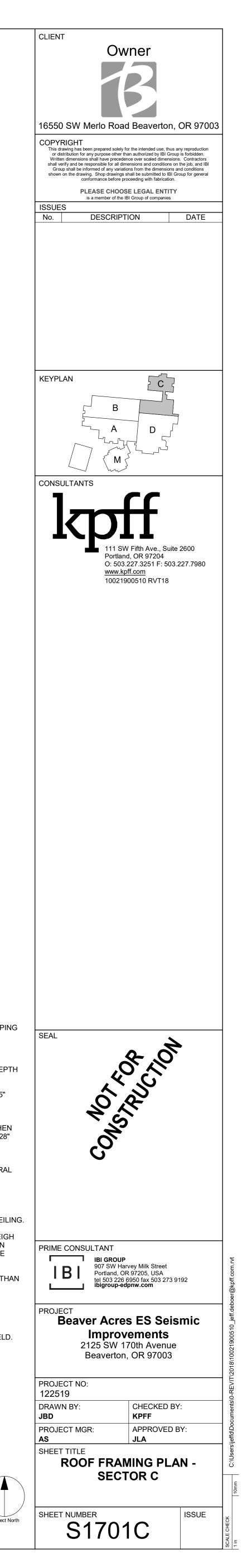
2 DOG HOUSE ROOF PLAN

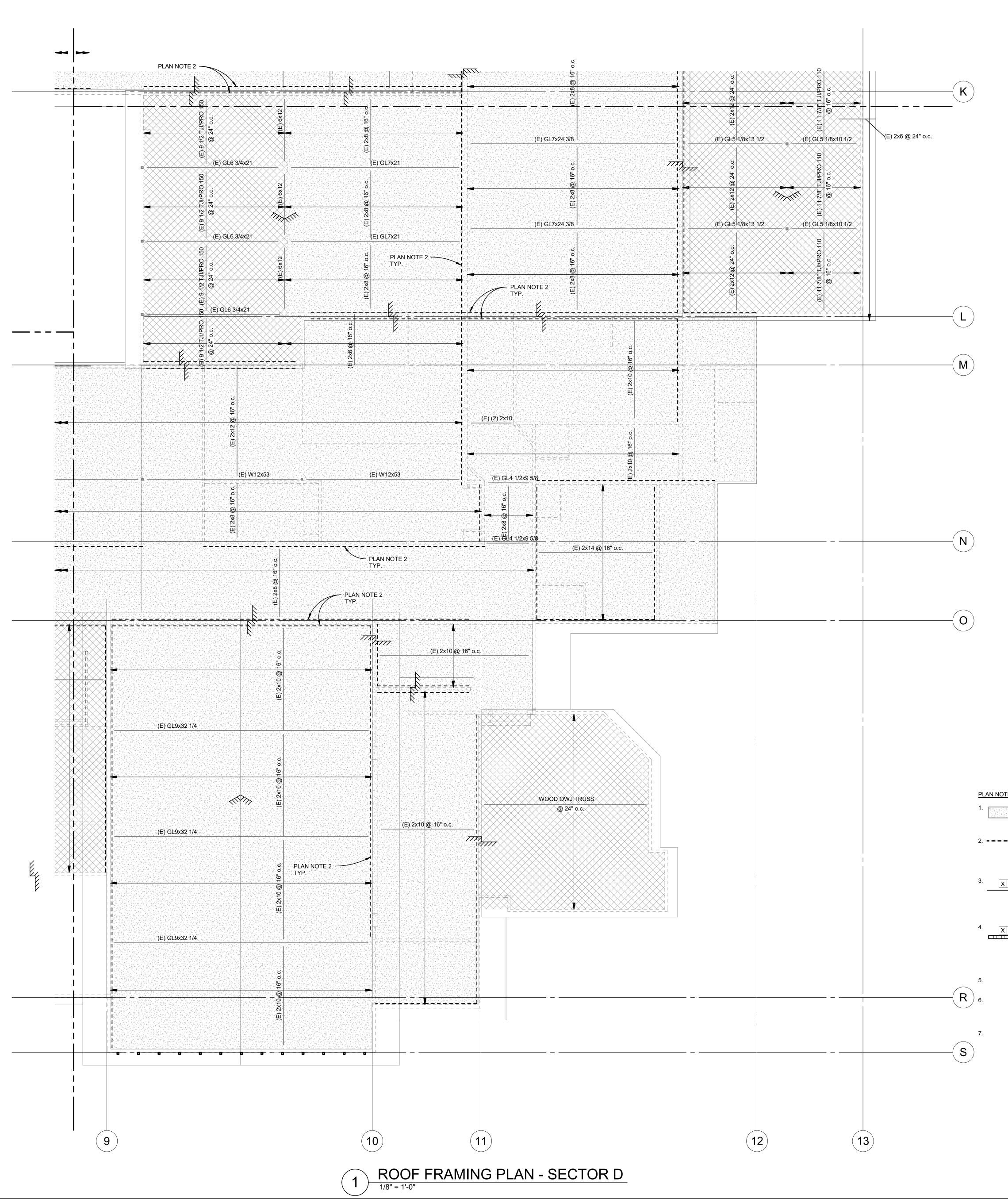
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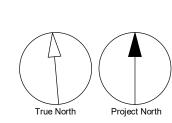
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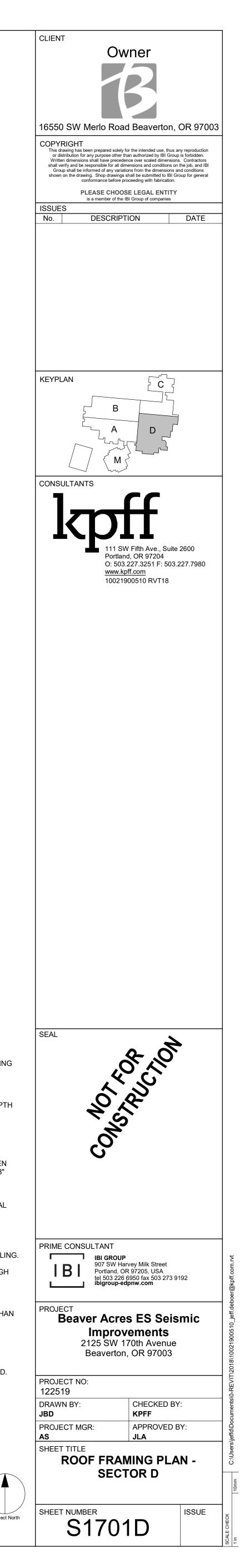


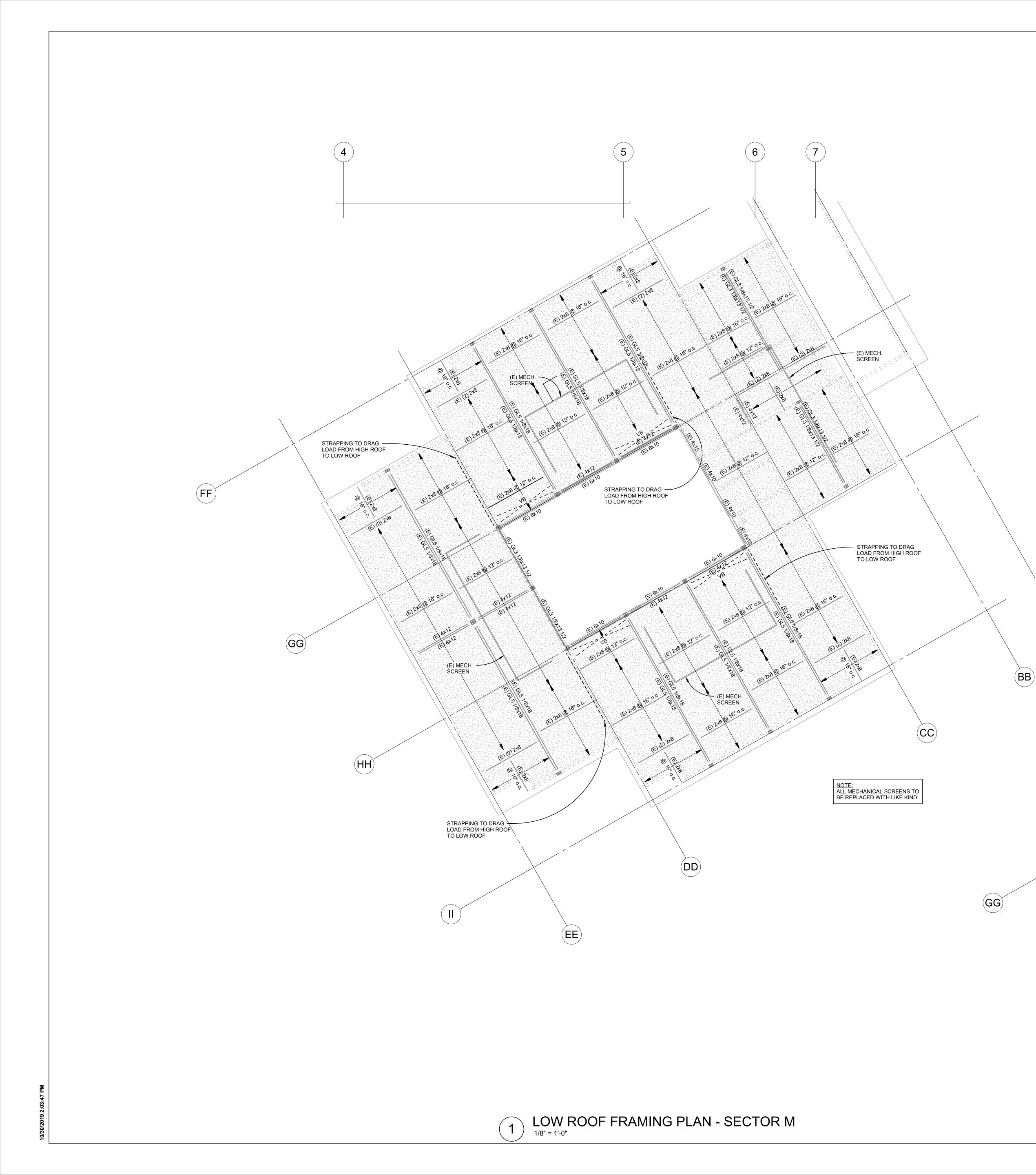






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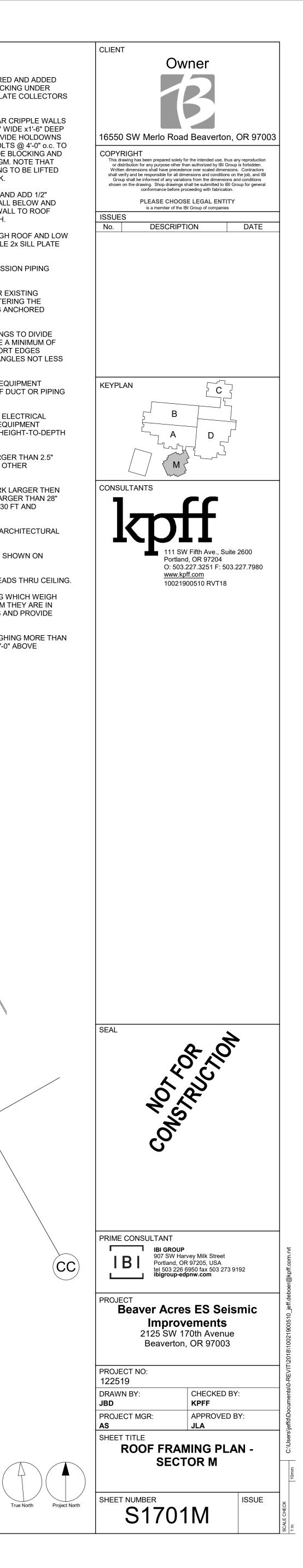
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5.	PROVIDE FLEXIBLE COUPLINGS FOR FIRE SUPPRESSION PIPING PER NFPA-13 GUIDELINES.
6.	PROVIDE BRACING AND FLEXIBLE COUPLINGS FOR EXISTING NATURAL GAS LINE AND FLUID PIPING WHERE ENTERING THE BUILDING OR ATTACHED TO EQUIPMENT WHICH IS ANCHORED BACK TO STRUCTURE.
7.	PROVIDE SEISMIC JOINTS IN ACOUSTIC TILE CEILINGS TO DIVIDE INTO AREAS NOT TO EXCEED 2,500 SQ FT. ENSURE A MINIMUM OF 3/4" CLEARANCE TO PARTITION WALLS AND SUPPORT EDGES PARALLEL TO PARTITION WALLS WITH CLOSURE ANGLES NOT LESS THAN 2" WIDE OR WIRE HANGERS.
8.	PROVIDE BRACING FOR ALL IN-LINE MECHANICAL EQUIPMENT WEIGHING MORE THAN 75 LBS INDEPENDENTLY OF DUCT OR PIPING SYSTEMS.
9.	PROVIDE ANCHORAGE FOR ALL MECHANICAL AND ELECTRICAL EQUIPMENT WEIGHING MORE THAN 400 LBS AND EQUIPMENT TALLER THAN 6'-0" HIGH w/ HEIGHT-TO-WIDTH OR HEIGHT-TO-DEPTH RATIO GREATER THAN 3:1.
10.	PROVIDE FLEXIBLE COUPLINGS FOR CONDUIT LARGER THAN 2.5" TRADE SIZE ATTACHED TO PANELS, CABINETS OR OTHER EQUIPMENT.
11.	PROVIDE BRACING FOR RECTANGULAR DUCTWORK LARGER THEN 6 SQ FT IN CROSS SECTION AND ROUND DUCTS LARGER THAN 28" IN THE TRANSVERSE DIRECTION NOT TO EXCEED 30 FT AND LONGITUDINAL DIRECTION NOT TO EXCEED 60 FT.
12.	COORDINATE MECHANICAL PENETRATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
13.	REF. ARCH. DRAWINGS FOR ALL DIMENSIONS NOT SHOWN ON FRAMING PLANS.
14.	PROVIDE ENLARGED OPENING FOR SPRINKLER HEADS THRU CEILING.
15.	BRACE ALL LIGHT FITURES IN SUSPENDED CEILING WHICH WEIGH MORE PER SQUARE FT. THAN THE CEILING SYSTEM THEY ARE IN w/ (2) WIRES AT DIAGONALLY OPPOSITE CORNERS AND PROVIDE SAFETY DEVICES FOR LIGHT w/ LENS COVERS.
16.	BRACE/ANCHOR ALL FALL PRONE CONTENTS WEIGHING MORE THAN 20 LBS WHOSE CENTER OF MASS IS MORE THAN 4'-0" ABOVE FINISHED FLOOR LEVEL.



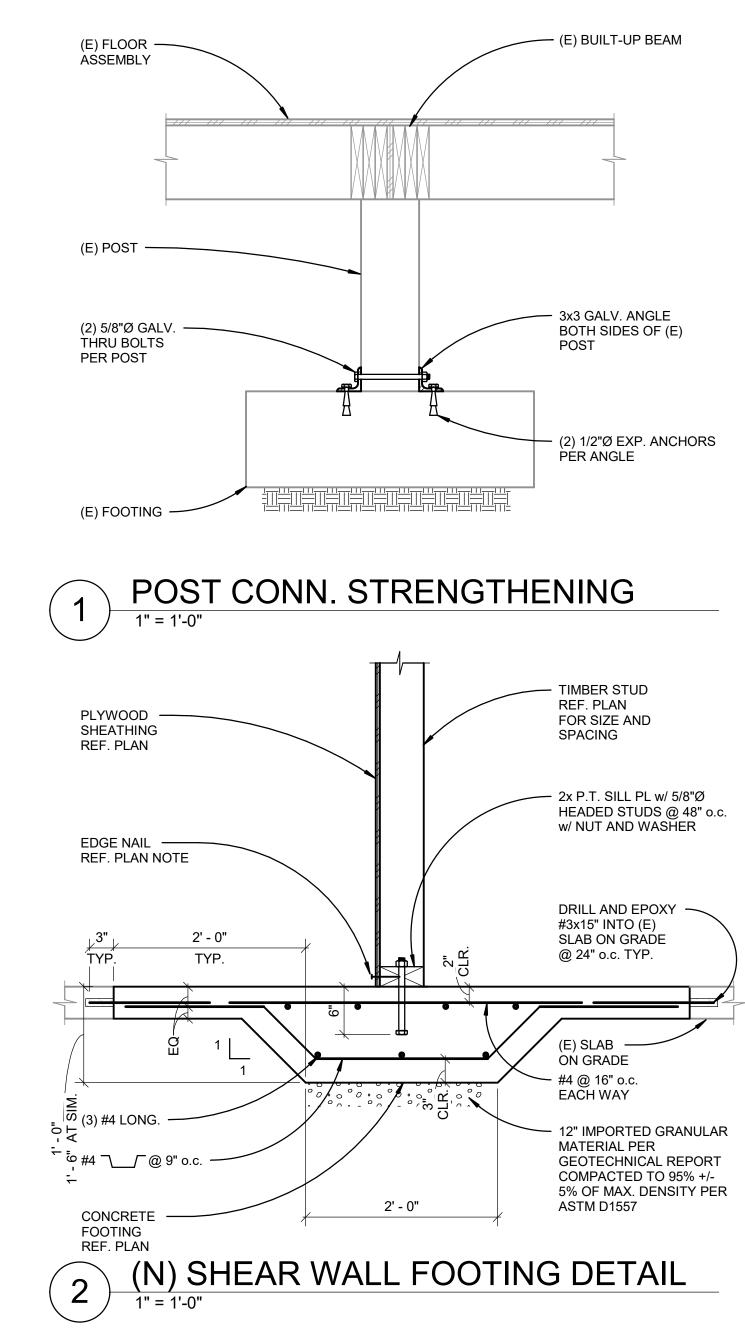
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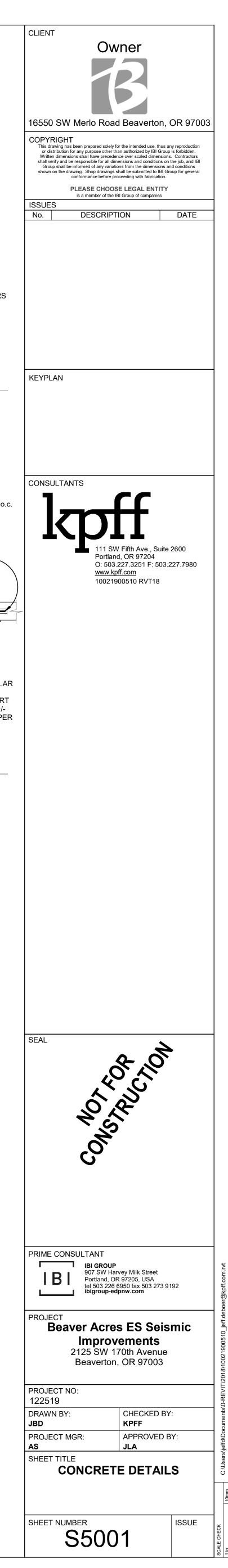
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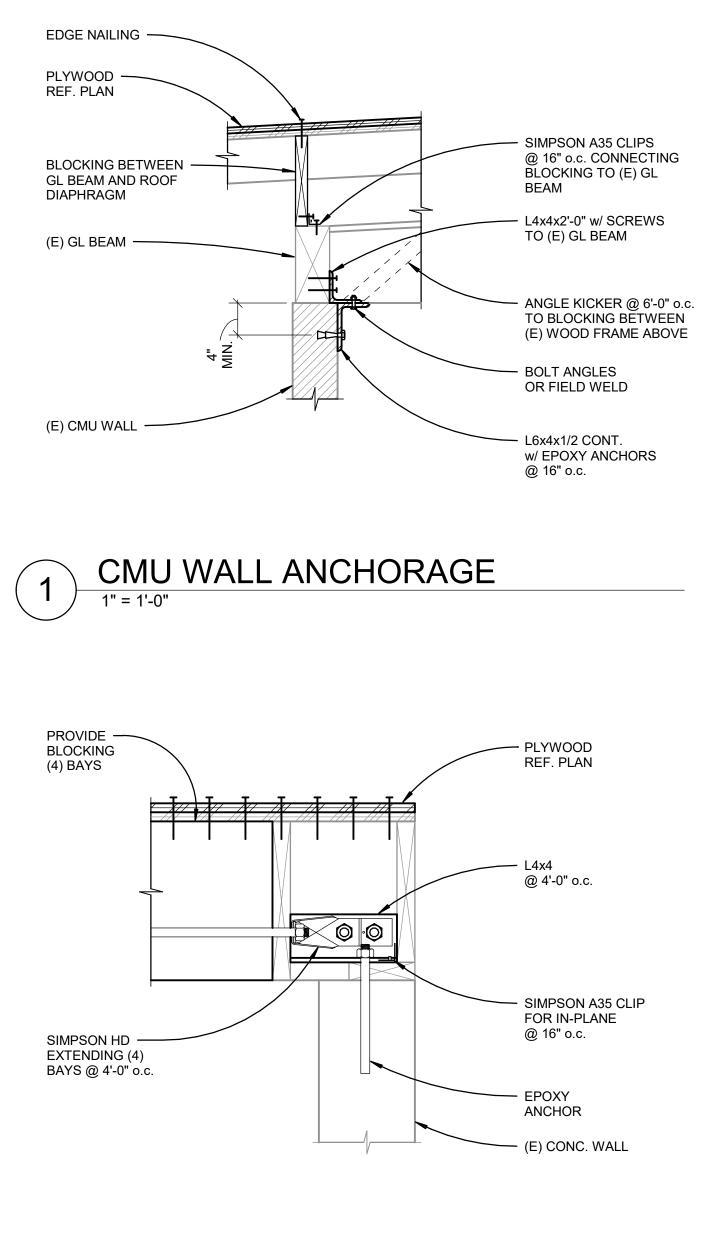
(HH)



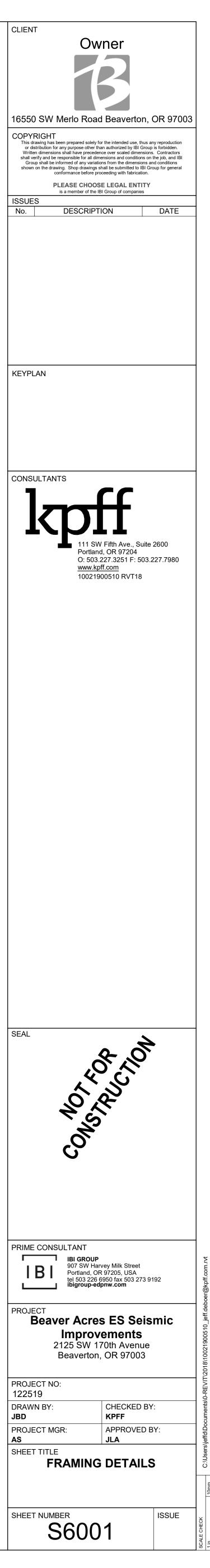
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2 TOP OF CONC. WALL CONN. 1 1/2" = 1'-0"



Abbreviat	ions	<u>Dampers</u>
AFF	ABOVE FINISHED FLOOR	
AD	ACCESS DOOR	
A/C BDD	AIR CONDITION(ED) BACKDRAFT DAMPER	
BFP	BACKFLOW PREVENTER	
BFF	BELOW FINISHED FLOOR	
BHP CD	BRAKE HORSEPOWER CEILING DIFFUSER	
CV	CHECK VALVE	
COP	COEFFICIENT OF PERFORMANCE	
CW	COLD WATER	
CD CU	CONDENSATE DRAIN CONDENSING UNIT	
CONT.	CONTINUATION	
DB	DECIBEL	
(X)	DEMOLISH	Diffusers and Grilles
DIA DX	DIAMETER DIRECT EXPANSION	
D	DROP	12x12 CD-1 DIFFUSER OR GRILLE IDENTIFICATION
DB	DRY BULB	
EFF ELECT	EFFICIENT ELECTRICAL	🖂 🚫 EXHAUST AIR
ELECT	ELECTRICAL ENERGY EFFICIENCY RATING	
EAT	ENTERING AIR TEMPERATURE	
EWT	ENTERING WATER TEMPERATURE	🖂 🖉 RETURN AIR
EXH	EXHAUST	
EF (E)	EXHAUST FAN EXISTING	SUPPLY AIR
F	FAHRENHEIT	
FT	FEET	Ductwork Fittings
FD FLA	FIRE DAMPER FULL LOAD AMPS	
GAL	GALLONS	ACOUSTICALLY LINED DUCT (SIZES SHOWN ARE NET INSI
GPH	GALLONS PER HOUR	
GPM	GALLONS PER MINUTE	المعنى المعني
HD	HEAD	
HTR HTG	HEATER HEATING	
HP	HORSEPOWER	
HWC	HOT WATER COIL	
IN		
ID IE	INSIDE DIAMETER INVERT ELEVATION	
KW	KILOWATT	
LH	LATENT HEAT	CCENTRIC TRANSITION, RECTANGULAR OR ROUND
LAT		
MAX MIN	MAXIMUM MINIMUM	
MA	MIXED AIR	
MD	MOTORIZED DAMPER	۲ <u>م</u>
N/A NIC	NOT APPLICABLE NOT IN CONTRACT	└───┤ └───ᠿ NON-SYMMETRICAL WYE
NTS	NOT TO SCALE	
NO.	NUMBER	
OC	ON CENTER	•
OBD OA	OPPOSED BLADE DAMPER OUTSIDE AIR	
OD	OUTSIDE DIAMETER	RECTANGULAR DUCT RISER
PH	PHASE	
LBS.	POUNDS	CITY CONTRACTANGULAR MAIN WITH RECTANGULAR BRANCH
PSI PD	POUNDS PER SQUARE INCH PRESSURE DROP	
PRV	PRESSURE REDUCING VALVE	
QTY	QUANTITY	
(R)	RELOCATE/RELOCATED LOCATION	
RET		RECTANGULAR OFFSET LESS THAN 15%%d
RA RPM	RETURN AIR REVOLUTIONS PER MINUTE	
R	RISE	
SEER	SEASONAL ENERGY EFFICIENCY RATING	
SH	SENSIBLE HEAT	
SOV SF	SHUT OFF VALVE SQUARE FEET	
SP	STATIC PRESSURE	
SA	SUPPLY AIR	
T, TEMP	TEMPERATURE TEMPERATURE DIFFERENCE	
TD MBH	THOUSAND BTU'S PER HOUR	
TH	TOTAL HEAT	
TP	TOTAL PRESSURE	
V WC	VOLT WATER COLUMN	
WC	WATER COLUMN WATT	× ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
WB	WET BULB	~ <u>L </u>
W/	WITH	
		〕 MITERED ELBOW WITH TURNING VANES
		, , , , , , , , , , , , , , , , , , ,
		<u>Equipment</u>
		CHILLER, AIR COOLED

COOLING TOWER

MECHANICAL SYMBOL LIST

eneral	Piping Systems
30X16 RECTANGULAR DUCT SIZING	
30"Ø ROUND DUCT SIZING	RS REFRIGERANT SUCTION
ping Fittings, Appurtenances and Equipment	Piping Valves
S AIR SEPARATOR	
	GLOBE VALVE
BACKFLOW PREVENTER	
→ CAP	
← CONTINUATION	Steam Piping LPS — LOW PRESSURE STEAM PIPING SUPPLY
EXPANSION JOINT	-C- $$ STEAM CONDENSATE RETURN
EXPANSION LOOP	
EXPANSION TANK	
FLOW SWITCH	
HEAT EXCHANGER	
HOSE BIBB	
MANUAL AIR VENT	
→ PIPE DROP	
PRESSURE GAUGE WITH COCK	
PRESSURE RELIEF VALVE	
PRESSURE SENSOR	
SHOCK ABSORBER	
T&P RELIEF VALVE WITH PIPE TO DRAIN	
TEE DOWN ON PIPE	
TEE UP ON PIPE	
TEST PORT (PETE'S PLUG OR EQUAL)	
L VENT TO ATMOSPHERE	
WATER METER	

MECHANICAL NARRATIVE

Codes and Standards All changes to the existing mechanical systems to accommodate to the seismic upgrades will be in accordance with the following codes and standards: 2019 Oregon Structural Specialty Code (OSSC) • 2019 Oregon Mechanical Specialty Code (OMSC)

Scope of Work

Mechanical equipment will be removed and reinstalled as necessary to accommodate the seismic upgrades as outlined in the KPFF report dated 12/4/2017. The school was originally constructed in 1956 and has undergone several additions and renovations to present. The areas in the 2008 addition, including roof replacement are not affected by the seismic upgrades; as such, mechanical systems in those areas are existing to remain. In general, to accommodate the reroofing, rooftop mechanical units including packaged rooftop units, exhaust fans, vents, and intake or relief hoods will need to be removed and reinstalled on new curbs after the reroofing is complete. Interface Engineering (IEI) recommends providing new motorized dampers to replace existing affected by the work. Existing ductwork and piping will be extended to the re-installed rooftop units as necessary. Perimeter heating fin tube radiators are to be carefully removed and re-installed after exterior wall sheathing is complete; an alternate would be replacing the fin tube completely. It would be challenging, if not impossible, to remove portions of the fin-tube and replace.

Flex connectors will be added to existing ductwork or piping where piping and ductwork crosses seismic joints. Where ductwork passes through shear walls, the openings are to be coordinated with structural, or shear wall locations adjusted as necessary to avoid

openings, if preferred by the Structural Engineer. It appears the school is served previously by a steam and condensate piping system, and there also appears to be a heating hot water system. The extents of both systems will be confirmed during the design phase. While outside the scope of this report/project, many of the rooftop units are beyond their useful median lifespan of 15-20 years. The School District should consider replacing the rooftop units alongside the reroofing scope of work. Rooftop unit replacement will be included as an Add Alternate 4 for the 'A' and 'B' classroom wings. The rooftop units will be variable air volume, with air-side economizer, packaged direct expansion (DX) cooling, and modulating natural gas heat. The rooftop units will connect to existing ductwork in the classrooms.

1955/1956/1959 Portions Existing Conditions

According to record drawings, this portion of the building is heated via a central steam system. Low pressure steam and condensate piping is routed underground in utility tunnels in the corridor. Piping branches are routed underground in the classrooms to the individual fin tube radiators at the exterior wall of each classroom. In 1999, rooftop air handling units were added to provide heating and cooling groups of classrooms. The air handling units appear to provide mechanical cooling via a packaged direct-expansion (DX) coil and heating via steam. Supply and return ductwork are routed exposed or in soffits to serve a group of 2 to 3 classrooms per rooftop unit. There are approximately 6 rooftop units serving these wings of the building.

Seismic Improvements The 6 rooftop units feeding this area will need to be removed as necessary to accommodate the re-roofing, if required at this location. The rooftop units will be reinstalled on new roof curbs. Piping and ductwork will be re-extended to the rooftop unit. From a piping standpoint, the shear wall locations shown on the KPFF sketch appear to have the least impact to the underground steam and condensate. IEI does not anticipate needing to reroute the underground piping with the current locations of the shear walls. Openings in the shear wall will need to be coordinated with existing ductwork. To accommodate the exterior wall sheathing, the fin tube radiators will be carefully removed by the contractor and re-installed after the wall sheathing is complete. Steam and condensate piping would be reconnected after the fin tube is re-installed. Approximately (15) fin tube radiators will be removed and

<u>Library</u> Existing Conditions

reinstalled to accomplish the seismic work.

The Library is served by a dedicated rooftop unit installed as part of the 1999 renovations. Supply and return ductwork are routed in a soffit to supply and return air via sidewall grilles. Seismic Improvements

The rooftop unit feeding the Library will be removed as necessary to accommodate the re-roofing, if required at this location. The rooftop units will be reinstalled on new roof curbs. Piping and ductwork will be re-extended to the rooftop unit. The existing ductwork does not appear to conflict with the new diaphragm attachment detail, so IEI does not anticipate alterations to existing ductwork in the space.

<u>Cafeteria</u> Existing Conditions

The Cafeteria is served by a dedicated rooftop unit installed as part of the 1999 renovations. Supply and return ductwork are routed in a soffit to supply and return air via sidewall grilles. Seismic Improvements

The rooftop unit feeding the Cafeteria will be removed as necessary to accommodate the re-roofing, if required at this location. The rooftop units will be reinstalled on new roof curbs. Piping and ductwork will be re-extended to the rooftop unit. The existing ductwork does not appear to conflict with the new diaphragm attachment detail, so IEI does not anticipate alterations to existing ductwork in the space.

<u>Gymnasium</u> Existing Conditions

The Gymnasium served by a built-up air handling unit located on a mezzanine adjacent the stage. The air handling unit is equipped with a steam heating coil. The air handling unit serves the gym and stage via supply ductwork routed in a soffit to sidewall grilles. Low return air grilles are located adjacent to the stage. The adjacent locker room is served by an air handling unit located above the corridor between the locker rooms. The unit serves the boys' and girls' locker rooms via a supply duct routed in a soffit, with sidewall discharge.

There are 2 rooftop exhaust fans serving the gym and are directly ducted from the roof into the space. Seismic Upgrades The Gymnasium and Locker Room air handling units will be provided with seismic bracing as required. This will likely require removal of ductwork and piping, and reconnection after seismic bracing is provided.

The rooftop exhaust fans will be removed and reinstalled on new curbs after reroofing is complete.

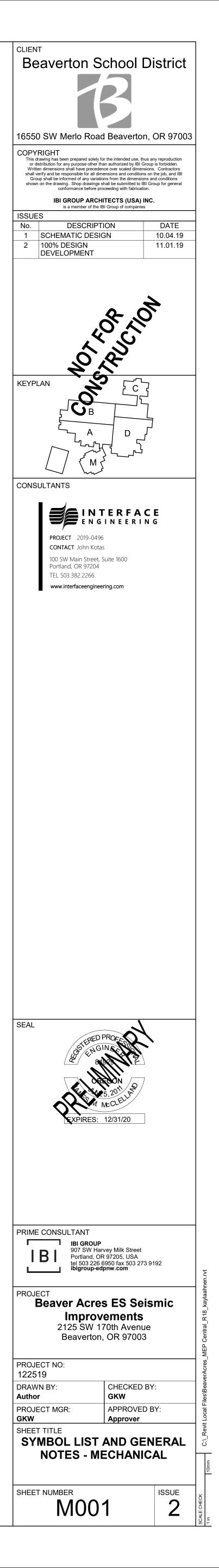
HVAC Equipment, Piping, and Ductwork

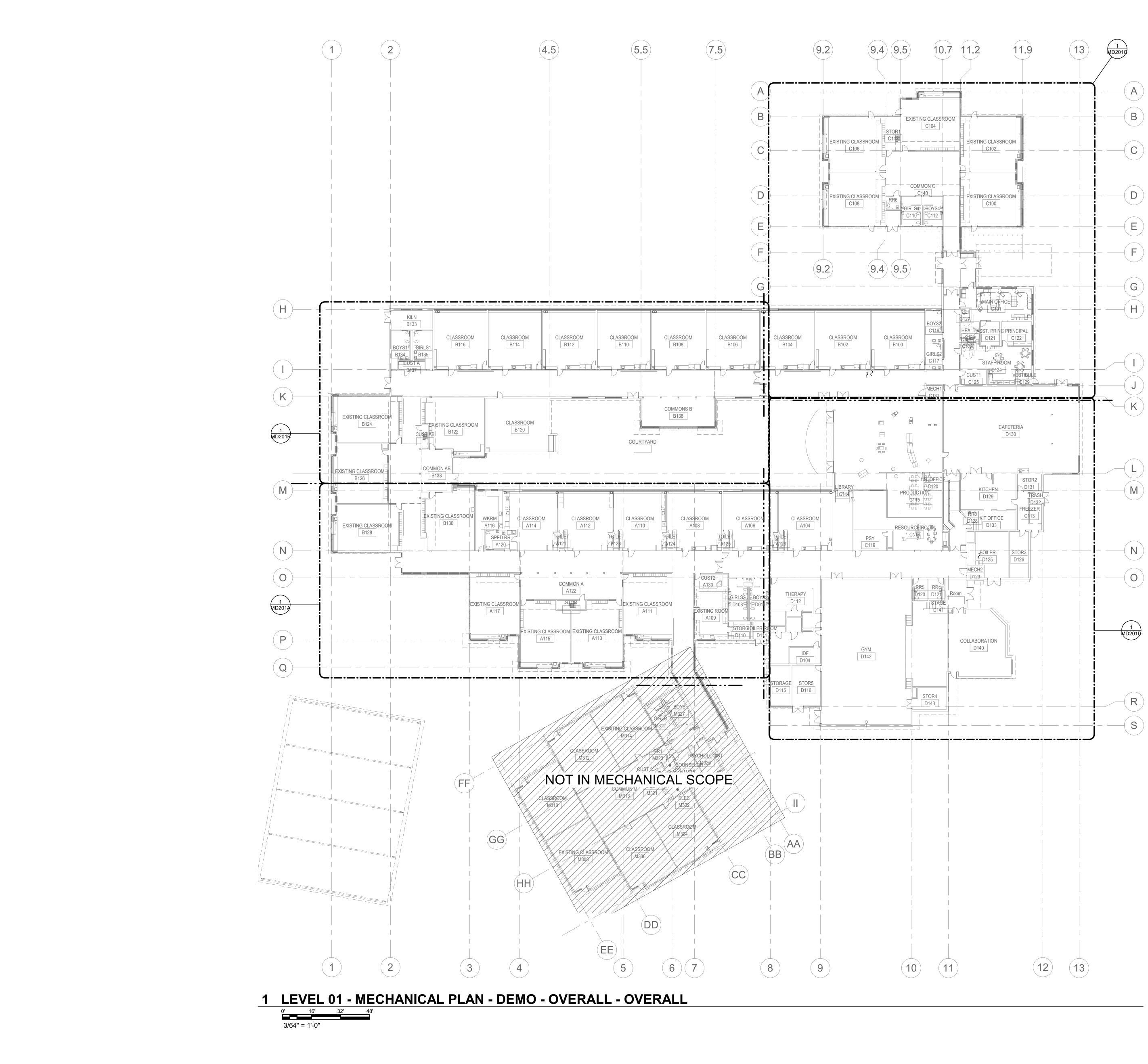
Seismic bracing will be provided for floor-mounted equipment mechanical as required. Based on record drawings, we do not anticipate further bracing of ductwork due to the cross-sectional areas not meeting the threshold of 6 square feet, but this will be confirmed during site investigation; where necessary, ductwork will be provided with seismic bracing. Piping will be provided with seismic bracing as required.

SHEET INDEX

M301 ROOF PLAN - OVERALL - MECHANICAL

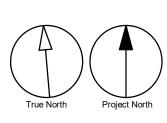
M001	SYMBOL LIST AND GENERAL NOTES - MECHANICAL
MD201B MD201C	LEVEL 01 - DEMOLITION PLAN - MECHANICAL LEVEL 01 - DEMOLITION PLAN - SECTOR A - MECHANICAL LEVEL 01 - DEMOLITION PLAN - SECTOR B - MECHANICAL LEVEL 01 - DEMOLITION PLAN - SECTOR C - MECHANICAL LEVEL 01 - DEMOLITION PLAN - SECTOR D - MECHANICAL
M201 M201A M201B M201C M201D	FLOOR PLAN - LEVEL 01 - OVERALL - MECHANICAL FLOOR PLAN - LEVEL 01 - SECTOR A - MECHANICAL FLOOR PLAN - LEVEL 01 - SECTOR B - MECHANICAL FLOOR PLAN - LEVEL 01 - SECTOR C - MECHANICAL FLOOR PLAN -LEVEL 01 - SECTOR D - MECHANICAL

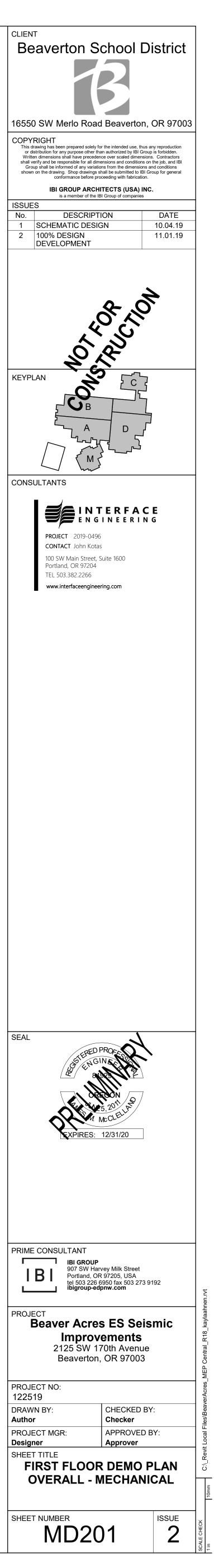


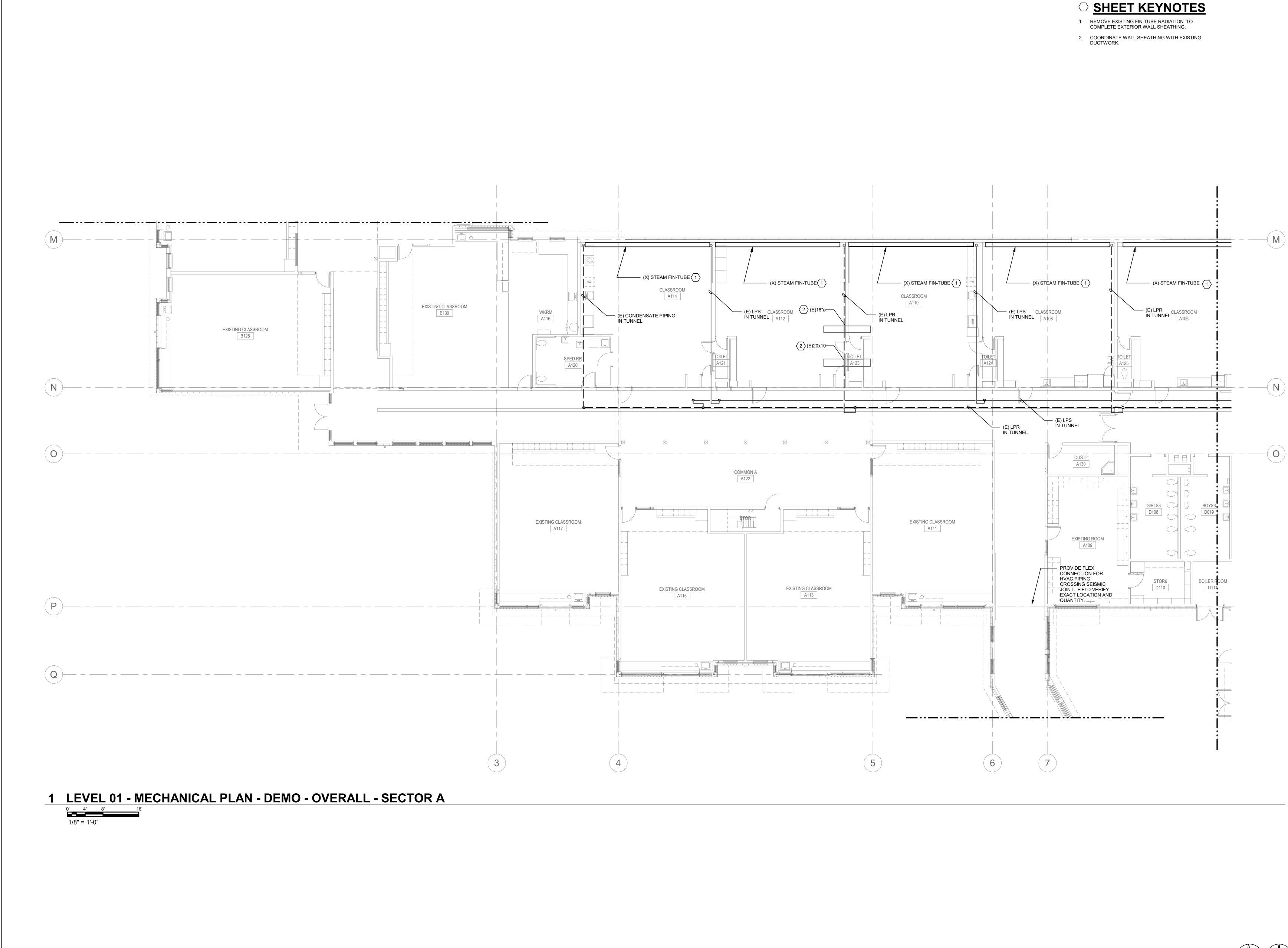


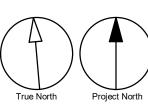
GENERAL SHEET NOTES

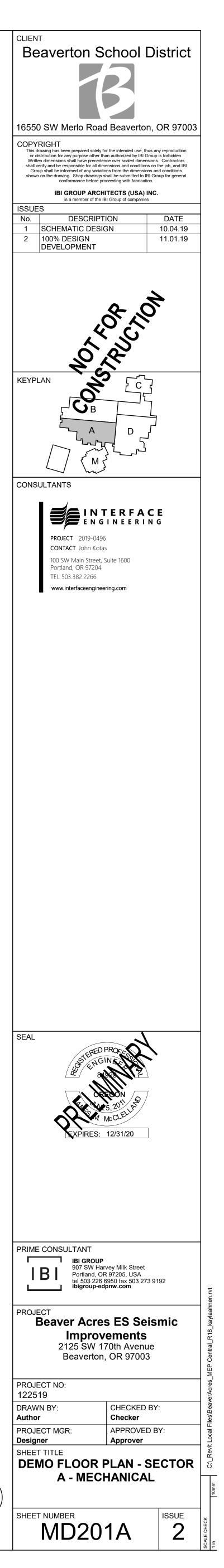
A. EXISTING HVAC PIPING, DUCTWORK, AND EQUIPMENT TO BE REMOVED AND REINSTALLED AS NECESSARY TO ACCOMMODATE SEISMIC UPGRADES AS OUTLINED IN THE STRUCTURAL DRAWINGS.

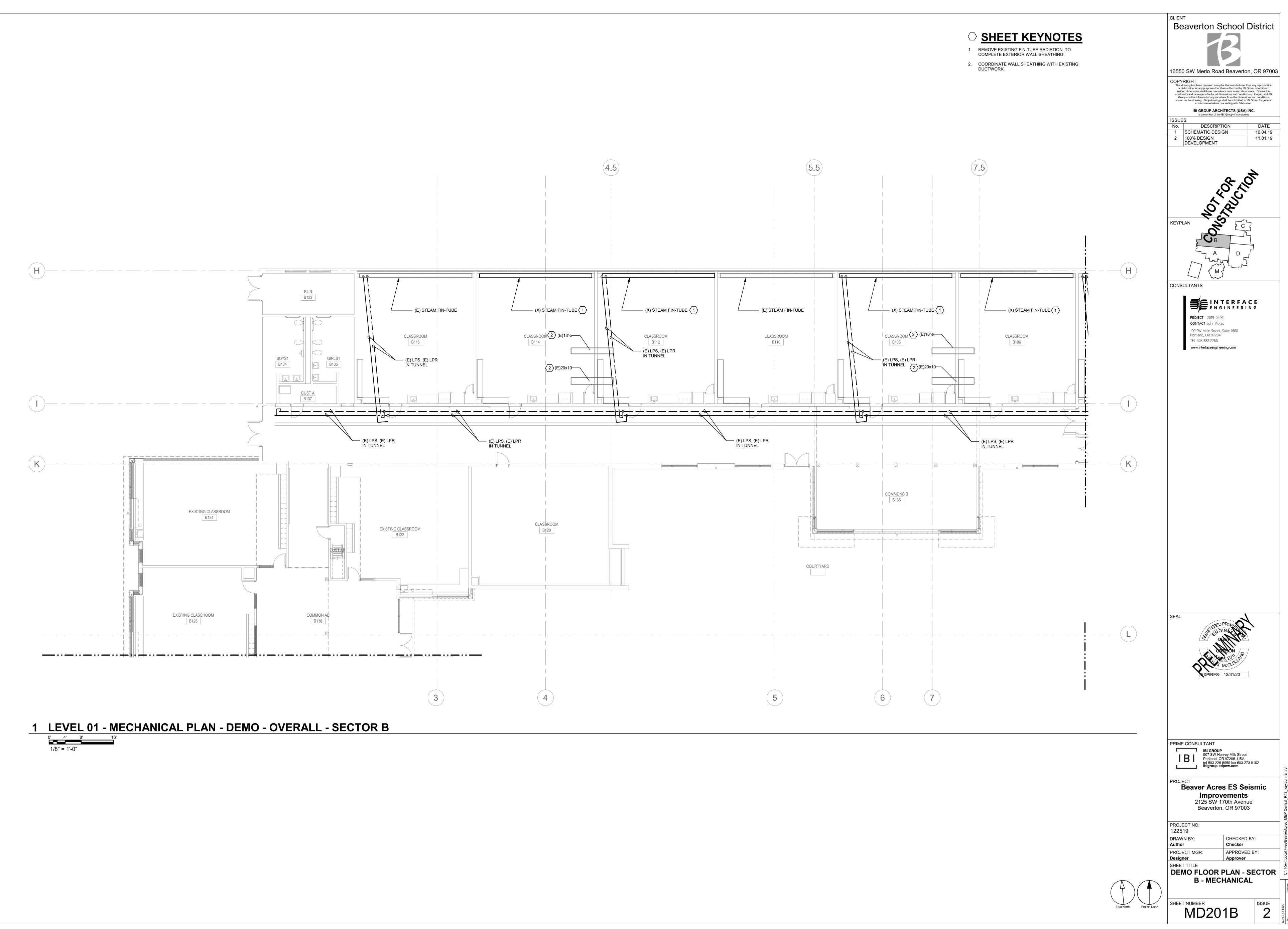




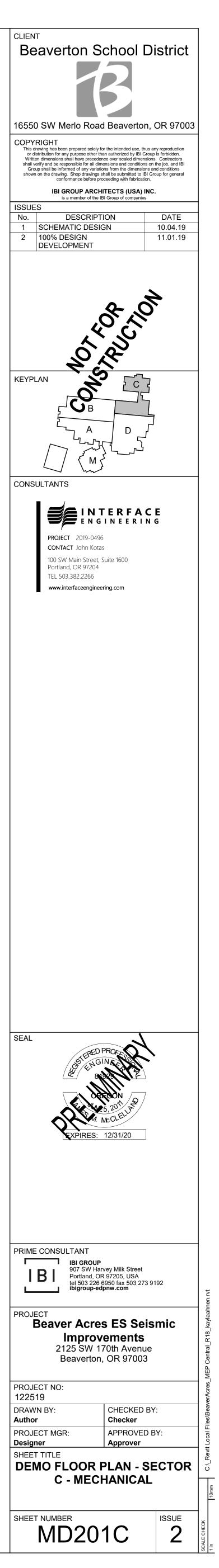


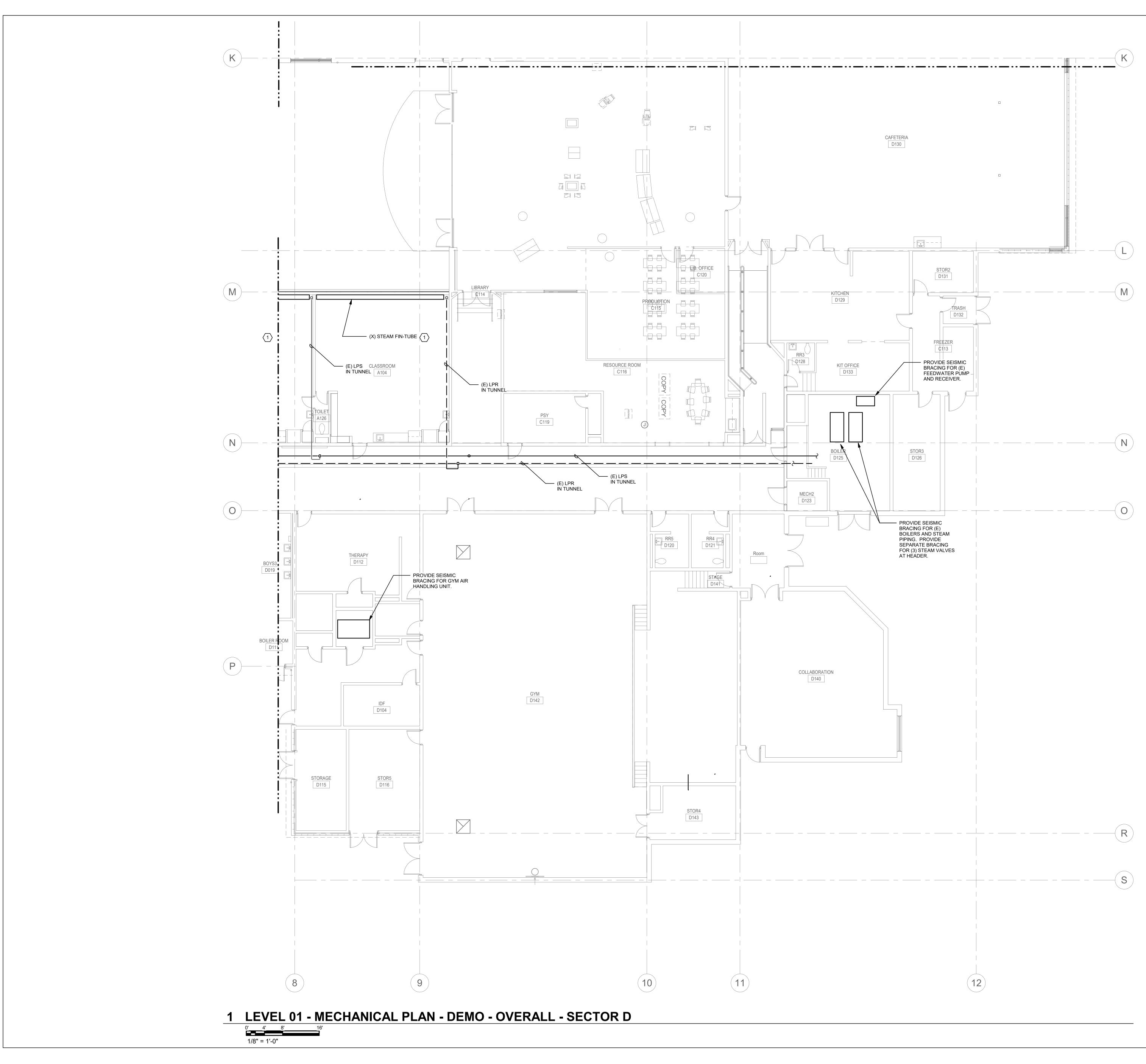


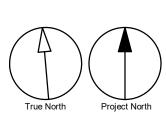


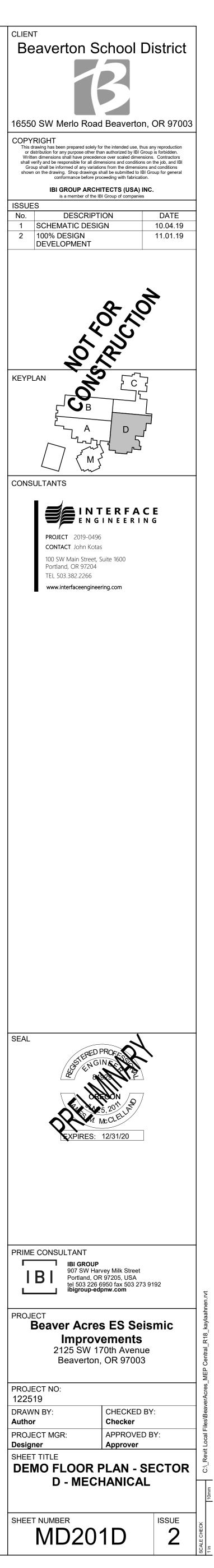


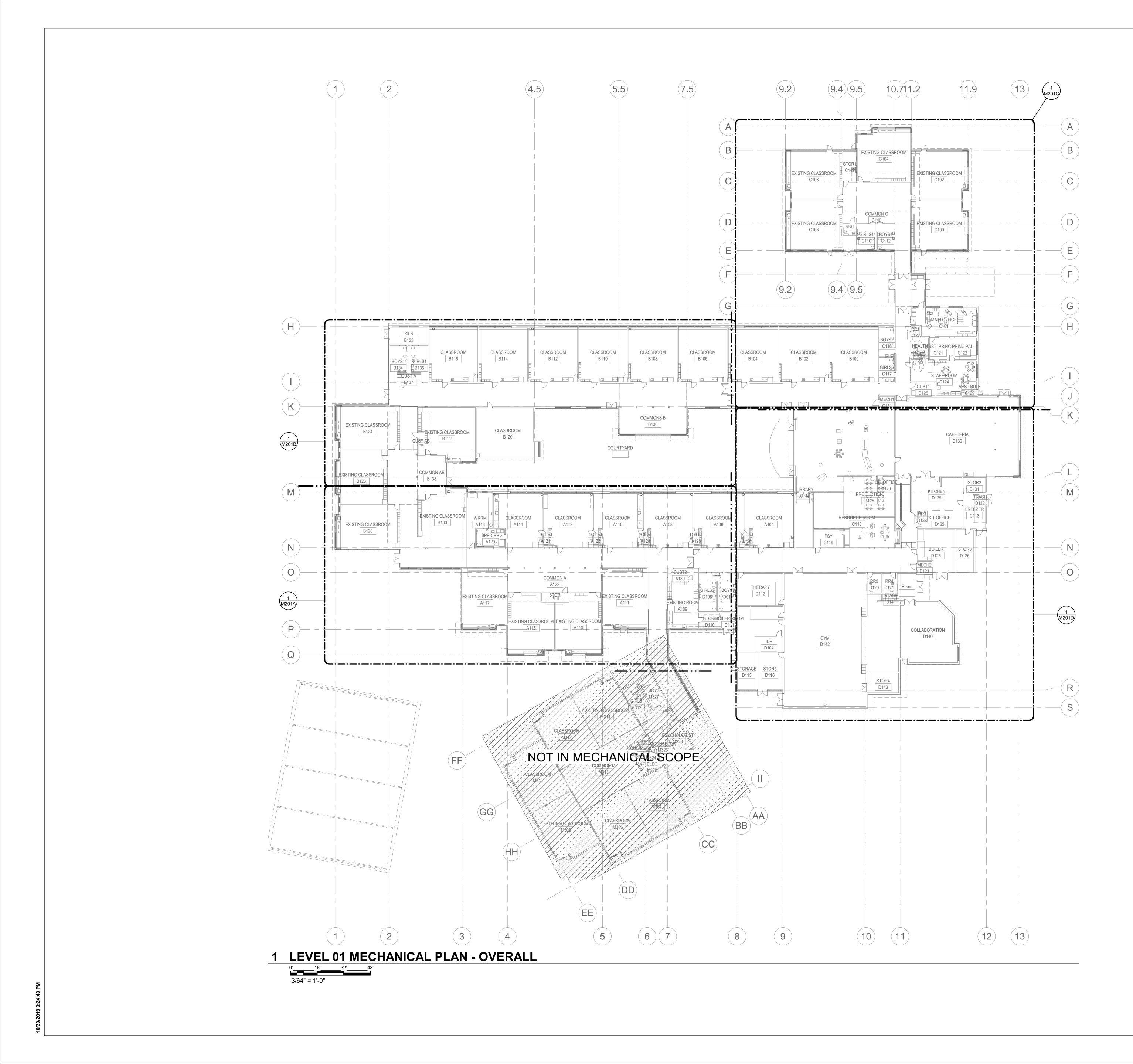






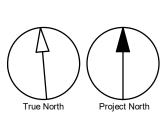


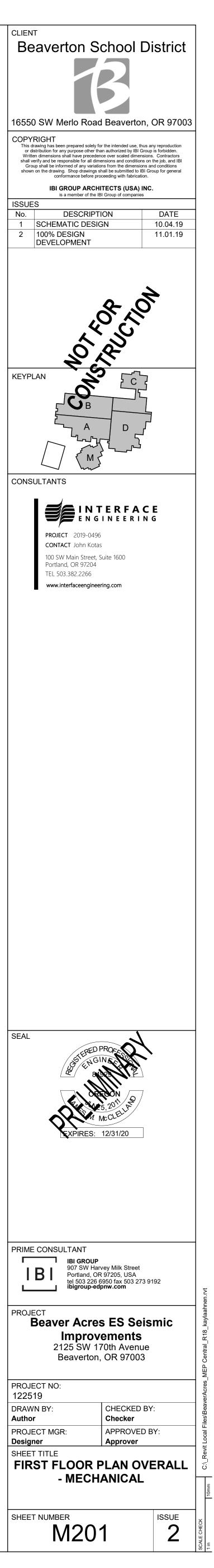


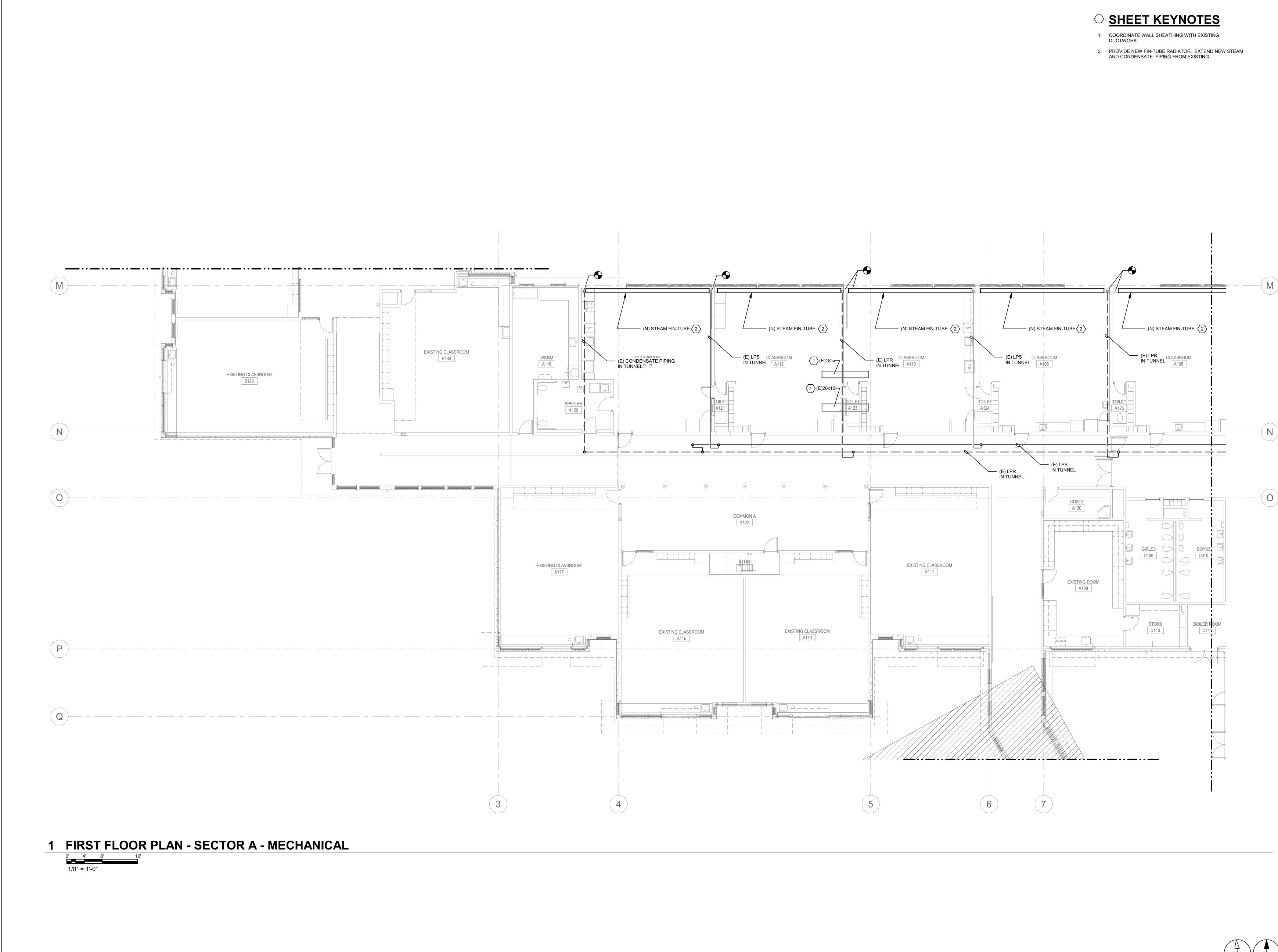


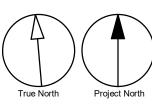
GENERAL SHEET NOTES

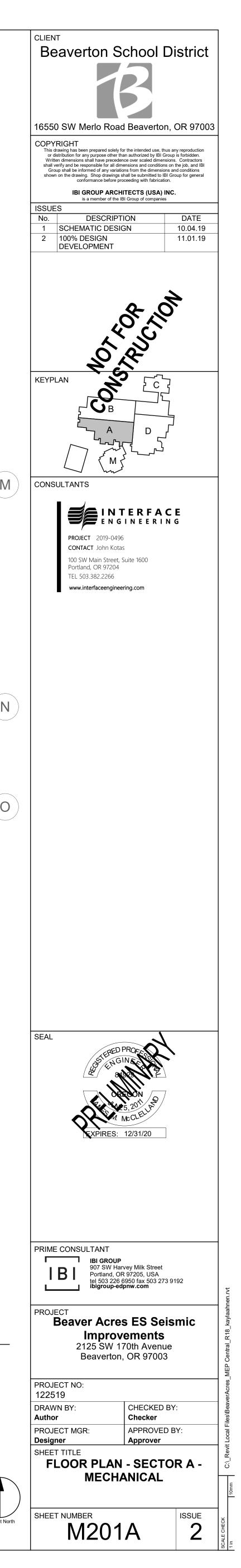
 NO SEISMIC BRACING OF DUCTWORK IS CURRENTLY ANTICIPATED.
 PROVIDE SEISMIC BRACING OF EXISTING EQUIPMENT, PIPING, AND APPURTENANCES IN ACCORDANCE WITH THE STRUCTURAL DRAWINGS AND SPECIFICATIONS.

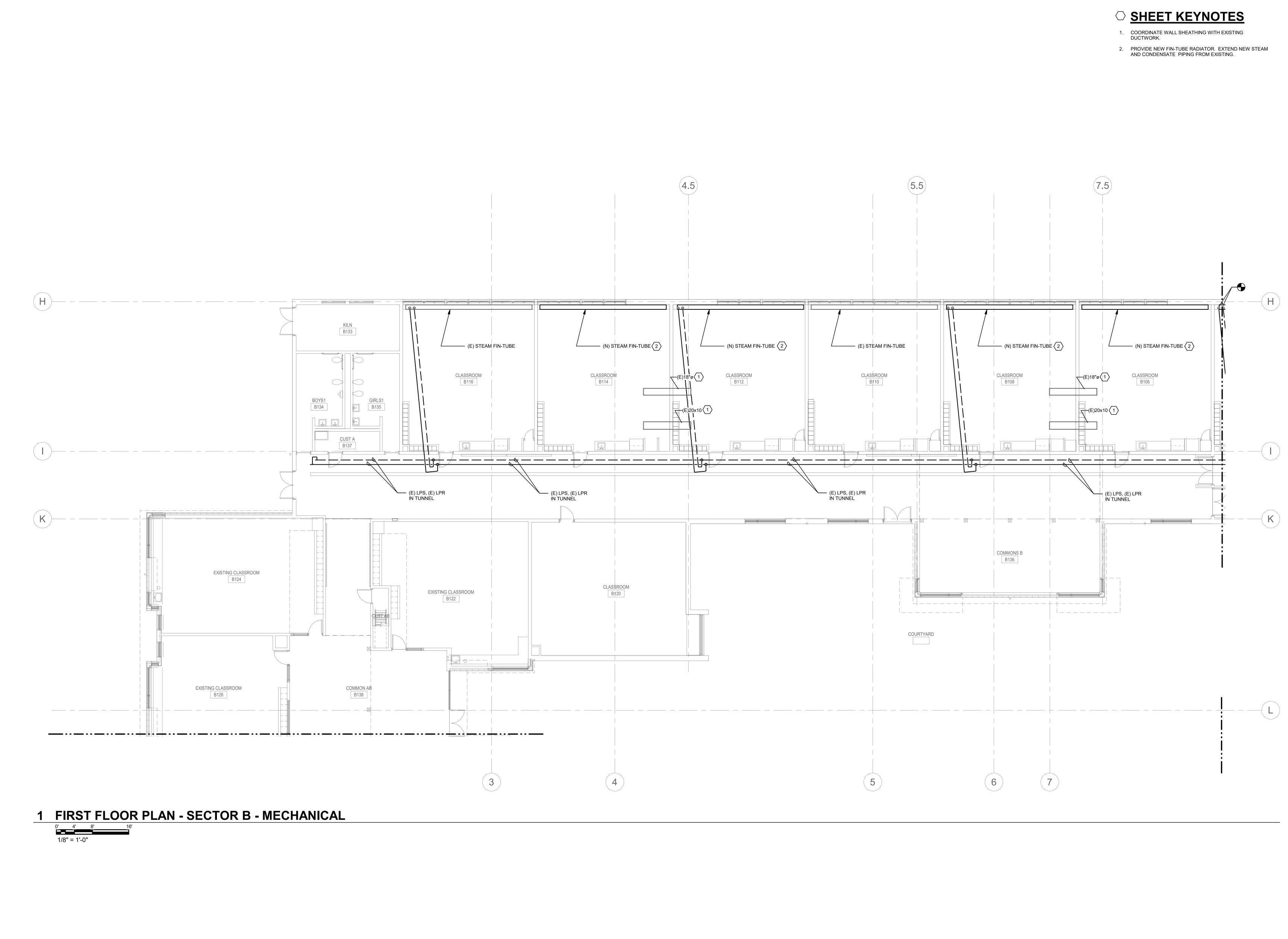




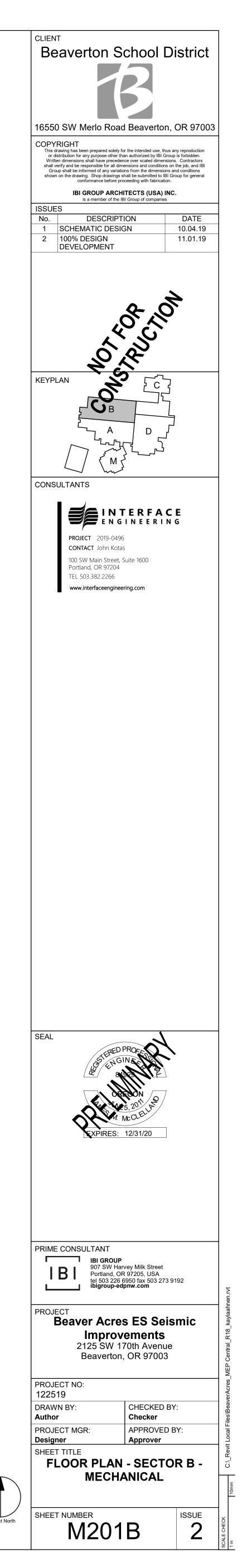


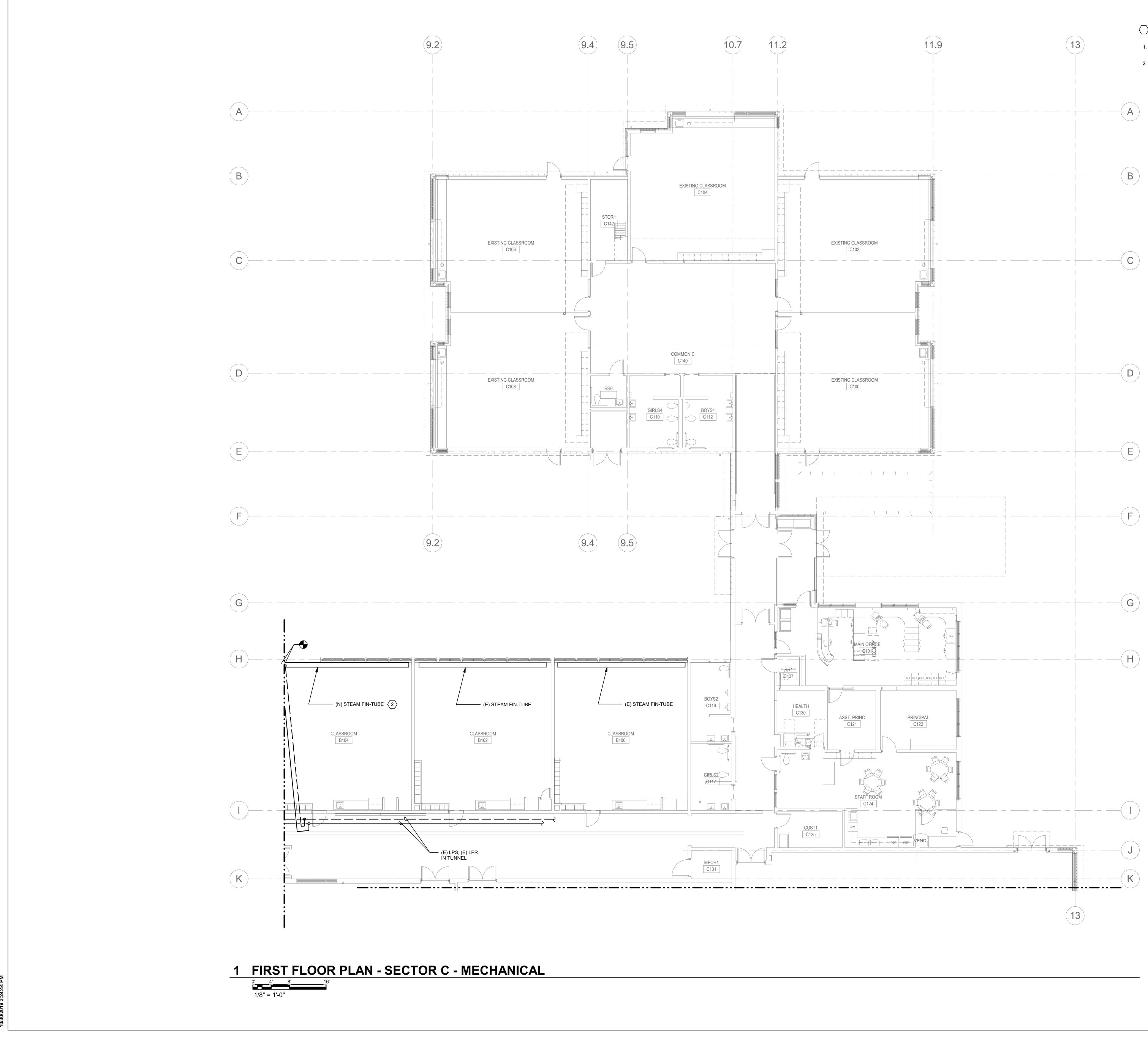






Project North True North

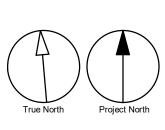


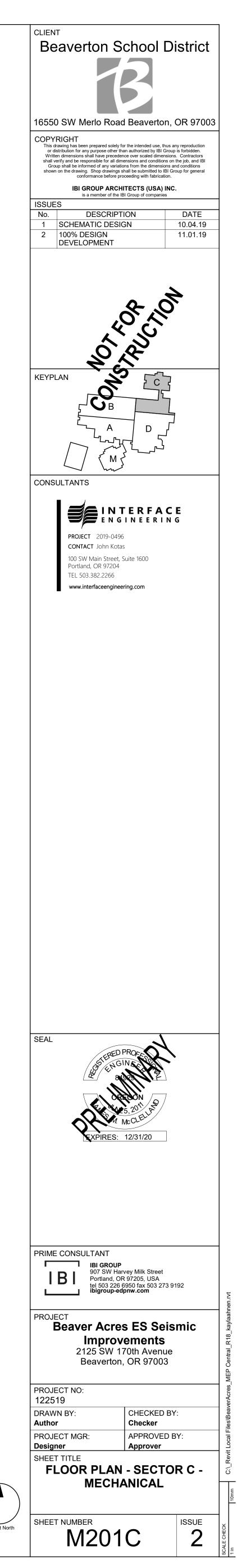


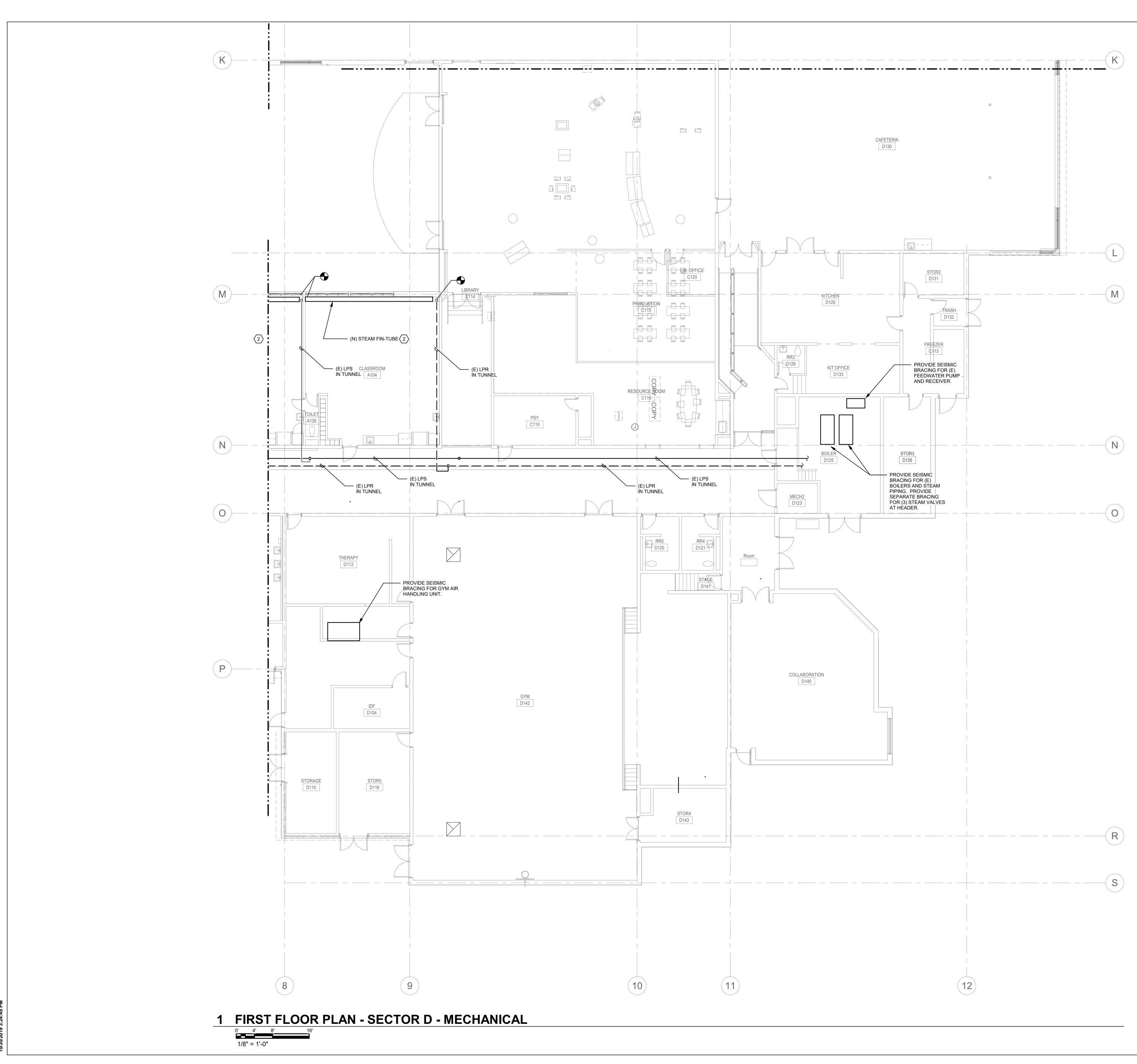
○ SHEET KEYNOTES

1. COORDINATE WALL SHEATHING WITH EXISTING DUCTWORK.

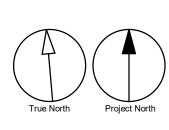
PROVIDE NEW FIN-TUBE RADIATOR. EXTEND NEW STEAM AND CONDENSATE PIPING FROM EXISTING.

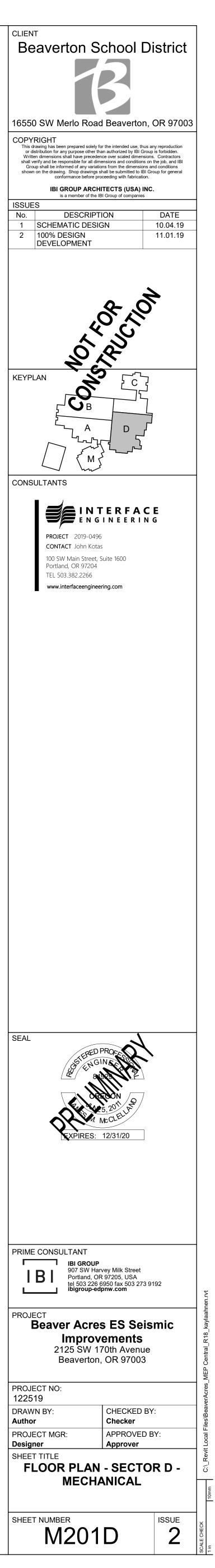


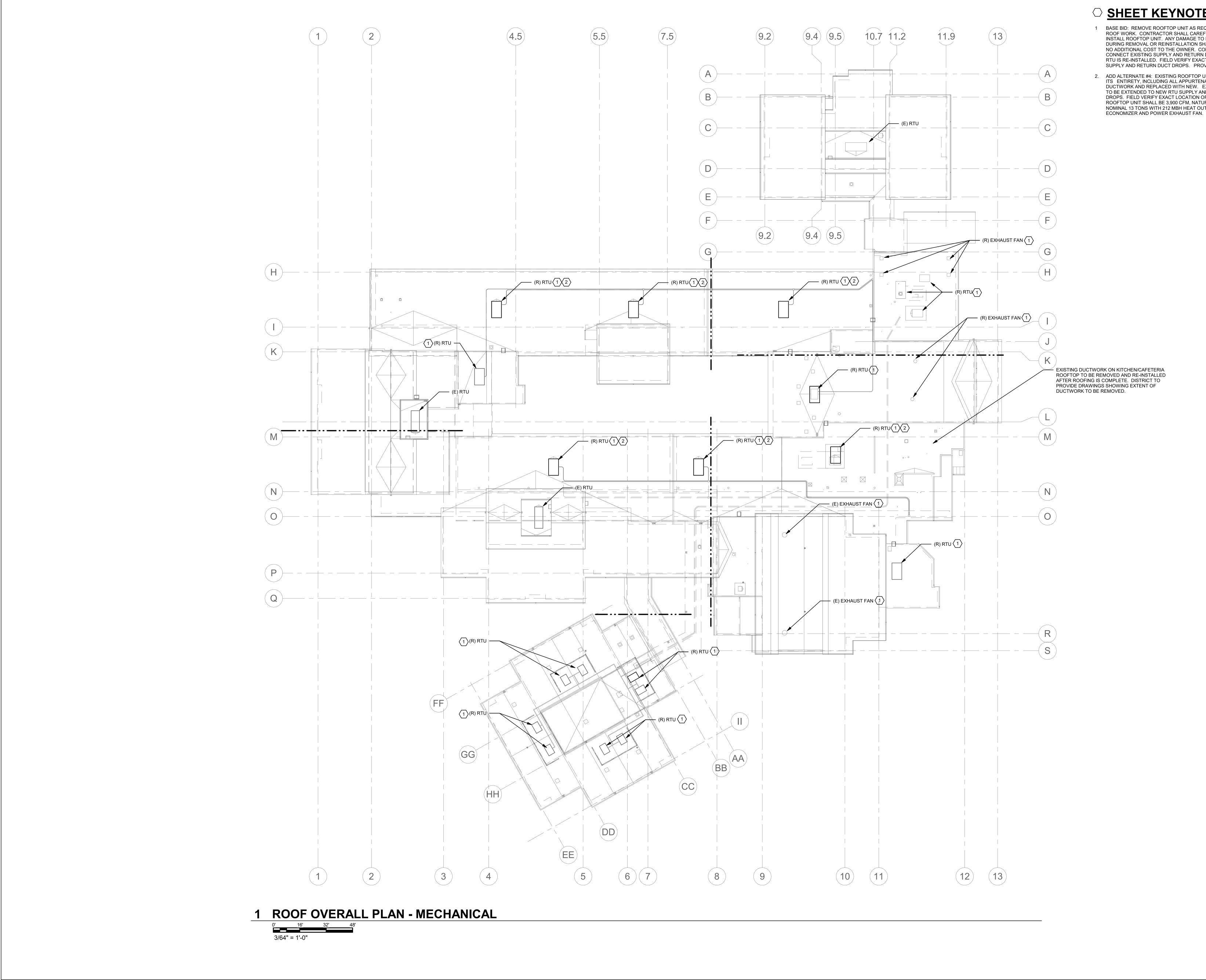




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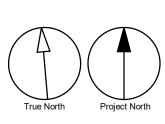


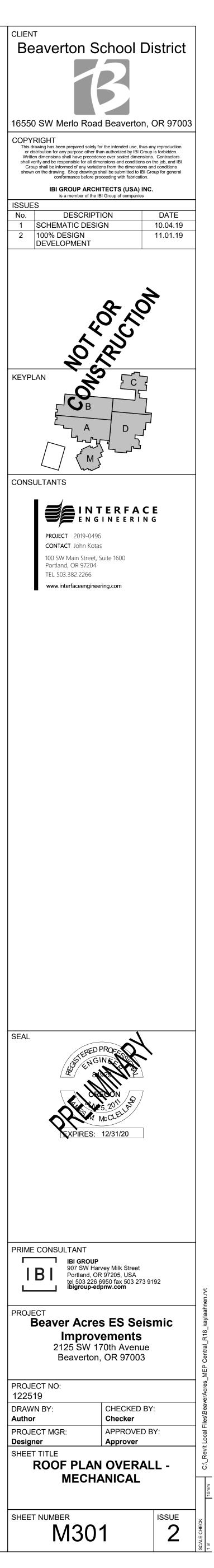




○ <u>SHEET KEYNOTES</u>

- 1 BASE BID: REMOVE ROOFTOP UNIT AS REQUIRED TO COMPLETE ROOF WORK. CONTRACTOR SHALL CAREFULLY REMOVE AND RE-INSTALL ROOFTOP UNIT. ANY DAMAGE TO ROOFTOP UNIT DURING REMOVAL OR REINSTALLATION SHALL BE CORRECTED AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL RE-CONNECT EXISTING SUPPLY AND RETURN DUCTWORK AFTER RTU IS RE-INSTALLED. FIELD VERIFY EXACT LOCATION OF SUPPLY AND RETURN DUCT DROPS. PROVIDE NEW ROOF CURB.
- 2. ADD ALTERNATE #4: EXISTING ROOFTOP UNIT TO BE REMOVED IN ITS ENTIRETY, INCLUDING ALL APPURTENANCES AND DUCTWORK AND REPLACED WITH NEW. EXISTING DUCTWORK TO BE EXTENDED TO NEW RTU SUPPLY AND RETURN DUCT DROPS. FIELD VERIFY EXACT LOCATION OF DUCTWORK. ROOFTOP UNIT SHALL BE 3,900 CFM, NATURAL GAS FIRED, NOMINAL 13 TONS WITH 212 MBH HEAT OUTPUT. PROVIDE

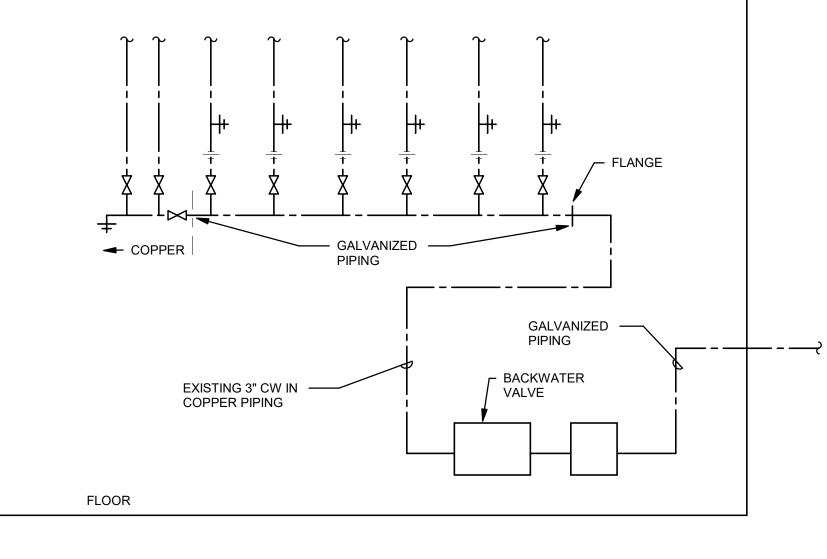




oreviatio (A) AFF AP AR & A A	ABANDON IN PLACE	<u>General</u>	
AFF AP AR & A			
AR & A	ABOVE FINISHED FLOOR		CONTINUATION
А	ACCESS PANEL ACID-RESISTANT	\frown	
	AND	$\left(\begin{array}{c} x \\ \overline{x} \end{array}\right)$	DETAIL NUMBER AND SHEET LOCATION
@	AQUASTAT, ARCHITECT, ANCHOR, AMPHERE AT	\bigcirc	
BFP BV	BACKFLOW PREVENTER BALANCING VALVE	\bullet	EXTENT OF DEMOLITION
BFF	BELOW FINISHED FLOOR		
BF BTUH	BLIND FLANGE BRITISH THERMAL UNITS PER HOUR	$\langle \mathbf{x} \rangle$	KEYED NOTE
BLDG	BUILDING		
CV CO	CHECK VALVE CLEANOUT	<i></i>	PIPE BELOW GRADE
CW	COLD WATER		
CD CONT.	CONDENSATE DRAIN CONTINUATION	lacksquare	POINT OF CONNECTION
CFH	CUBIC FEET PER HOUR		
CFS (X)	CUBIC FEET PER SECOND DEMOLISH		SECTION NUMBER AND SHEET LOCATION
DW	DISHWASHER, DOMESTIC WATER	(XXX)	
DET DCVA	DOMESTIC EXPANSION TANK DOUBLE CHECK VALVE ASSEMBLY	—×—×—	DEMOLISH
DOVA	DOWN		
DS DSN	DOWNSPOUT DOWNSPOUT NOZZLE	······································	DEMOLISH (DASH-DOT)
D	DRAIN		
DFU DWV	DRAINAGE FIXTURE UNIT DRAINAGE, WASTE AND VENT		EXISTING WORK
DF	DRINKING FOUNTAIN		
EWC EWH	ELECTRIC WATER COOLER ELECTRIC WATER HEATER		NEW WORK
LECT	ELECTRICAL		
EEW (E)	EMERGENCY EYE WASH EXISTING		PIPE OR CONDUIT BELOW GRADE
EJ	EXPANSION JOINT	, ,	
FT FPS	FEET FEET PER SECOND	Piping Fitting	<u>gs</u>
FFE	FINISHED FLOOR ELEVATION		ACCESS PANEL
F FC	FIRE, FAHRENHEIT FLEXIBLE CONNECTOR	LJ	
FL	FLOOR	Р	AQUASTAT
FCO FD	FLOOR CLEANOUT FLOOR DRAIN	<u>T</u>	
FS	FLOOR SINK, FLOW SWITCH		BLIND FLANGE
FV '	FLUSH VALVE FOOT, FEET		BEINDTEANGE
(F)	FUTURE	-	CAR
GPH GPM	GALLONS PER HOUR GALLONS PER MINUTE	3	CAP
GD	GARBAGE DISPOSER, GARAGE DRAIN		
HD		>	CONCENTRIC REDUCER
HP HVAC	HEAT PUMP, HORSE POWER, HOUSEKEEPING PAD HEATING, VENTILATING AND AIR CONDITIONING	~	
HZ			EXPANSION JOINT
HB HW	HOSE BIBB HOT WATER		
HWFU	HOT WATER FIXTURE UNIT		FLEXIBLE CONNECTION
HWR IN, "	HOT WATER RETURN INCHES		
IW			FLOW DIRECTION
INV KW	INVERT ELEVATION KILOWATT		
L		F	FLOW SWITCH
MAX HG	MAXIMUM MERCURY		
MIN		 +	HOSE BIBB / WALL HYDRANT
MX MS	MIXING VALVE MOP SINK		
MH	MOUNTING HEIGHT, MANHOLE	PEX	PEX MANIFOLD
(N) NPCW	NEW NON-POTABLE COLD WATER		
NOP	NORMALLY OPEN	ə	PIPE DROP
N N/A	NORTH NOT APPLICABLE		
NIC	NOT IN CONTRACT		PIPE RISE
NTS #	NOT TO SCALE NUMBER		
NO.	NUMBER	Ŷ	PRESSURE GAUGE WITH COCK
PH PLBG	PHASE PLUMBING	<u>I</u>	
Р	PLUMBING, PUMP		PUMP
POC PSI	POINT OF CONNECTION POUNDS PER SQUARE INCH	e e	
PD	PRESSURE DROP, PLUMBING DEMOLITION, PUMPED DISCHARGE	© RD	ROOF DRAIN
PG PRV	PRESSURE GAUGE PRESSURE REDUCING VALVE	0	
PS	PRESSURE SWITCH	Ş	SHOCK ABSORBER / WATER HAMMER ARRES
QTY RWL	QUANTITY RAINWATER LEADER	<u> </u>	
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER		STRAINER
RV (R)	RELIEF VENT, RELIEF VALVE RELOCATE / RELOCATED LOCATION	<u> </u>	
RPM	REVOLUTIONS PER MINUTE	<u>ل</u> ام	
RD SJ	ROOF DRAIN SEISMIC JOINT	Ţ¥	T&P RELIEF VALVE WITH PIPE TO DRAIN
SHT	SHEET		
SA SH	SHOCK ARRESTOR SHOWER		TEE DOWN ON PIPE
SOV	SHUT OFF VALVE		
S, SK SF	SINK SQUARE FEET	o	TEE UP ON PIPE
TEMP	TEMPERATURE	_	
T&P T	TEMPERATURE AND PRESSURE TEMPERATURE, THERMOMETER	Ţ	TEMPERATURE SENSOR
TP	TEMPERATURE, THERMOMETER TRAP PRIMER, TOTAL PRESSURE		
TYP VFD	TYPICAL VARIABLE FREQUENCY DRIVE	T	TEST PORT
VFD VS	VARIABLE FREQUENCY DRIVE VENT STACK		
VTR	VENT THRU ROOF	<u> </u>	THERMOMETER
WCO W	WALL CLEANOUT WASTE		
WS WSFU	WASTE STACK WATER SUPPLY FIXTURE UNIT	TP	TRAP PRIMER MANIFOLD

MBING SYMBOL LIST

— — 140°HW –	140%%d HOT WATER PIPING
— — 140°HWR -	140%%d HOT WATER RETURN PIPING
	COLD WATER PIPING
D	CONDENSATE / INDIRECT DRAIN PIPING
	HOT WATER PIPING
	HOT WATER RETURN PIPING
IR	IRRIGATION
———— NP —	NON-POTABLE COLD WATER PIPING
	NON-POTABLE HOT WATER PIPING
TW	TEMPERED WATER PIPING
TP	TRAP PRIMER PIPING
Valves	
BFP	BACKFLOW PREVENTER
— <u>U</u> —	BACKWATER VALVE
X GPM	BALANCING VALVE
—ī	CHECK VALVE
!\$	EARTHQUAKE GAS VALVE
—— > —	GLOBE VALVE
	HOSE END DRAIN VALVE
——————————————————————————————————————	NATURAL GAS PIPING CONNECTION ASSEMBLY
	PRESSURE REDUCING VALVE



1 COLD WATER MANIFOLD

NOT TO SCALE

GENERAL PLUMBING NOTES

- A. CONTRACTOR TO DEMO ALL GALVANIZED WATER PIPING AND REPLACE WITH NEW PIPNG. PEX TUBING OR COPPER TO BE USED.
- B. CONTRACTOR TO FIELD VERIFY CONDITIONS PRIOR TO CONSTRUCTION.
- C. ALL PLUMBING WORK SHAL BE COORDINATED WITH ALL TRADES INVOLVED.
- D. ALL EXISTING PLUMBING FIXTURES TO REMAIN AND BE RECONNECTED.
- E. ALL EXISTING VENTS WILL NEED TO BE EXTENDED DUE TO NEW REROOFING SCOPE.
- F. EXISTING GAS PIPING ON ROOF NEEDS TO BE FIELD VERIFIED IF NEEDING TO BE REMOVED WHILE REROOFING SCOPE OF WORK IS BEING DONE. AND IF SO, REPLACE ONCE ROOF SCOPE IS DONE.
- G. CONTRACTOR TO PROVIDE PRICING COST PER PLUMBING FIXTURE TO CHANGEOUT DUE TO DISTRICTS LEAD TESTING.
- H. CONTRACTOR TO PROVIDE FLEX CONNECTION TO ALL GAS FIRED EQUIPMENT

PLUMBING NARRATIVE

Codes and Standards

All changes to the existing plumbing system to accommodate the seismic upgrades will be in accordance with the following codes and standards • 2017 Uniform Plumbing Code.

Scope of Work The scope of the plumbing is to demo and remove all galvanized steel water piping and valves to be replace with copper piping or PEX tubing for the mains. Water piping above grade in restrooms & classrooms have already been replaced with copper. Most of the work is located within the tunnels. Replace plumbing fixtures and piping impacted by new roof work and seismic strengthening of interior walls. Owner prefers no soldering on site. The water service manifold should be fabricated off site and built in copper.

Domestic Cold Water System Replace all existing galvanized cold water piping and route new piping to each fixture in the tunnel, In copper or PEX up to 3". Isolation valves will be provided and located strategically inside the building to allow service to piping as needed and limit the amount of areas that need to be shut down. Provide shutoff valves at all equipment. There is some existing copper piping routed from the boiler room overhead to each pod. This existing copper water piping is to remain.

Domestic Hot Water System

The domestic water heating system is from the central system located in the Boiler Room. The building hot water will be circulated throughout the building to provide minimal wait times for hot water at the fixtures. The piping shall be routed in copper & PEX tubing up to 3". Local mixing valves (ASSE 1069-1070) will be provided at each plumbing fixture with hot water supply. Extend new supplies from existing as required.

Replace all existing galvanized hot water and hot water return from Boiler Room to each plumbing fixture. Route new copper piping and or PEX tubing up to 3" to each plumbing fixture. Isolation valves will be provided and located strategically inside the building to allow service to piping as needed and limit the amount of areas that need to be shut down. Provide shutoff valves at all equipment. There is some existing copper piping routed overhead to each pod to remain and not replaced.

Domestic Water Mains Copper tubing, Type K conforming to ASTM B88, copper fittings with soldered joints.

Domestic Water Branch Lines Copper tubing, Type K conforming to ASTM B88, copper fittings with soldered joints. PEX tubing and plastic fittings from main lines to existing plumbing fixtures.

Backflow / Boiler Room Replace existing backflow with New 3" PI RPBA installed per Water Bureau requirements and main supply header with copper. Demo all existing water piping to existing equipment that is not copper and replace with new copper piping and new valves as required. Copper piping to remain and reconnect

Existing water heater Provide seismic bracing as required by code.

<u>Tunnel</u> Demo existing galvanized hot water, cold water & hot water return piping and provide new copper piping. PEX tubing is acceptable for branch piping to existing plumbing fixtures angle stops.

Roof Demo existing vent flashing where existing roof is being reroofed. Extend existing vents as required and provide new flashing when structural upgrade is being done. Existing roof /over flow drains to remain. If roofing scope requires the existing roof / overflow drains to be demolished. Reinstall new roof/overflow drains and reconnect as required.

Detach existing downspouts and scuppers as required and reattach when seismic upgrade and roofing scope is done. Adjust a few vents and move away from existing structure Adjust gas piping on roof as required due to the reroofing scope

<u>Exterior</u> Demo existing hose bibs as required per structural upgrade on the exterior walls and once the structural upgrade is done, reinstall new hose bib as required.

Interior Provide new insulation on all new copper piping and pex tubing per energy code.

FIRE PROTECTION NARRATIVE

Fire Suppression Provide materials, labor, tools, permits, and incidentals to ensure the fire suppression sprinkler system is ready for Owner's use based on accommodating the seismic upgrade of the building. Base contract upon furnishing materials as specified. Materials, equipment, and fixtures used for construction are to be new, latest products as listed in manufacturer's printed catalog data and are to be UL or FM approved or have adequate approval or be acceptable by state, county, and city authorities.

Common Work Results for Fire Suppression

Provide modification and extension of the existing hangers and supports, pipe identification, and pipe concealment serving the fire suppression sprinkler system to accommodate the seismic upgrade of the building. Modify and relocate existing system as needed for new seismic structure being added to building. Provide new bracing, anchors, and flexible couplings for all fire suppression sprinkler system piping. In addition, provide design for the fire suppression sprinkler system as required in Contract Documents. These are Contractor designed systems. Contact AHJ prior to bid to verify systems' requirements. Design systems in compliance with code as interpreted by the AHJ.

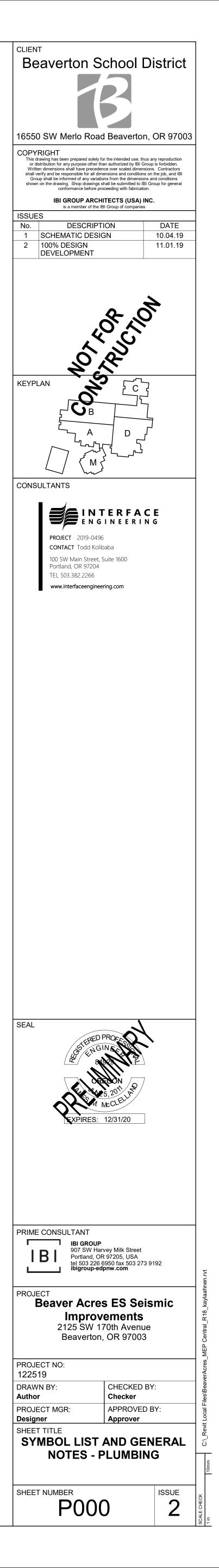
Fire Suppression Sprinkler Systems

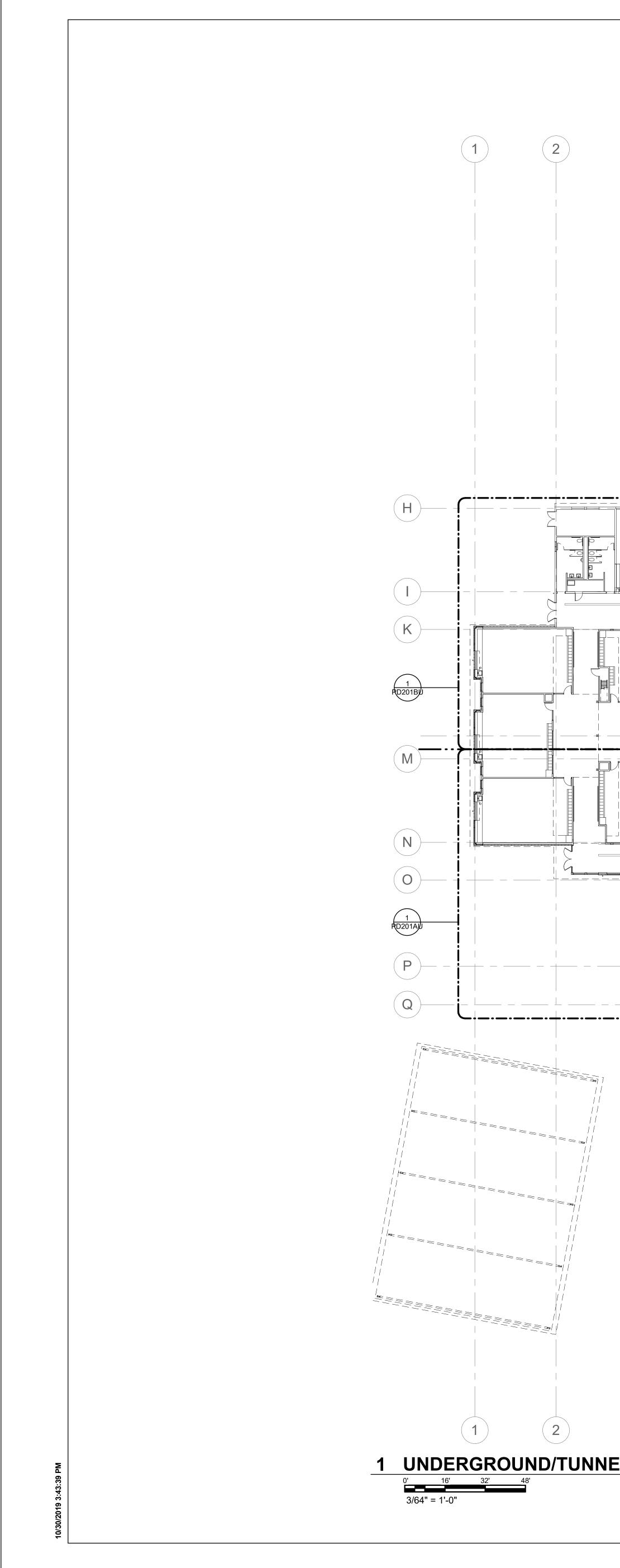
Provide modification and extension of the existing fire suppression sprinkler system to accommodate the seismic upgrade of the building. Modify and relocate existing system as needed for new seismic structure being added to building. Provide new flush mounted sprinklers with seismic escutcheons in main building as well as the 1999 building. In addition, provide design for the fire suppression sprinkler system as required in Contract Documents. These are Contractor designed systems. Contact AHJ prior to bid to verify systems' requirements. Design systems in compliance with code as interpreted by the AHJ.

P000	S

SHEET INDEX

SYMBOL LIST AND GENERAL NOTES - PLUMBING PD200U UNDERGROUND/TUNNEL DEMOLITION PLAN - PLUMBING PD201AU UNDERGROUND/TUNNEL - DEMOLITION PLAN - SECTOR A - PLUMBING PD201BU UNDERGROUND/TUNNEL - DEMOLITION PLAN - SECTOR B - PLUMBING PD201CU UNDERGROUND/TUNNEL - DEMOLITION PLAN - SECTOR C - PLUMBING PD201DU UNDERGROUND/TUNNEL - DEMOLITION PLAN - SECTOR D - PLUMBING P201U FLOOR PLAN - UNDERGROUND/TUNNEL - OVERALL - PLUMBING P201AU FLOOR PLAN - UNDERGROUND/TUNNEL - SECTOR A - PLUMBING P201BU FLOOR PLAN - UNDERGROUND/TUNNEL - SECTOR B - PLUMBING P201CU FLOOR PLAN - UNDERGROUND/TUNNEL - SECTOR C - PLUMBING P201DU FLOOR PLAN - UNDERGROUND/TUNNEL - SECTOR D - PLUMBING P201 FLOOR PLAN - LEVEL 01 - OVERALL - PLUMBING P201A FLOOR PLAN - LEVEL 01 - SECTOR A - PLUMBING P201B FLOOR PLAN - LEVEL 01 - SECTOR B - PLUMBING P201C FLOOR PLAN - LEVEL 01 - SECTOR C - PLUMBING P201D FLOOR PLAN - LEVEL 01 - SECTOR D - PLUMBING P301 ROOF PLAN - OVERALL - PLUMBING - ADD ALTERNATE





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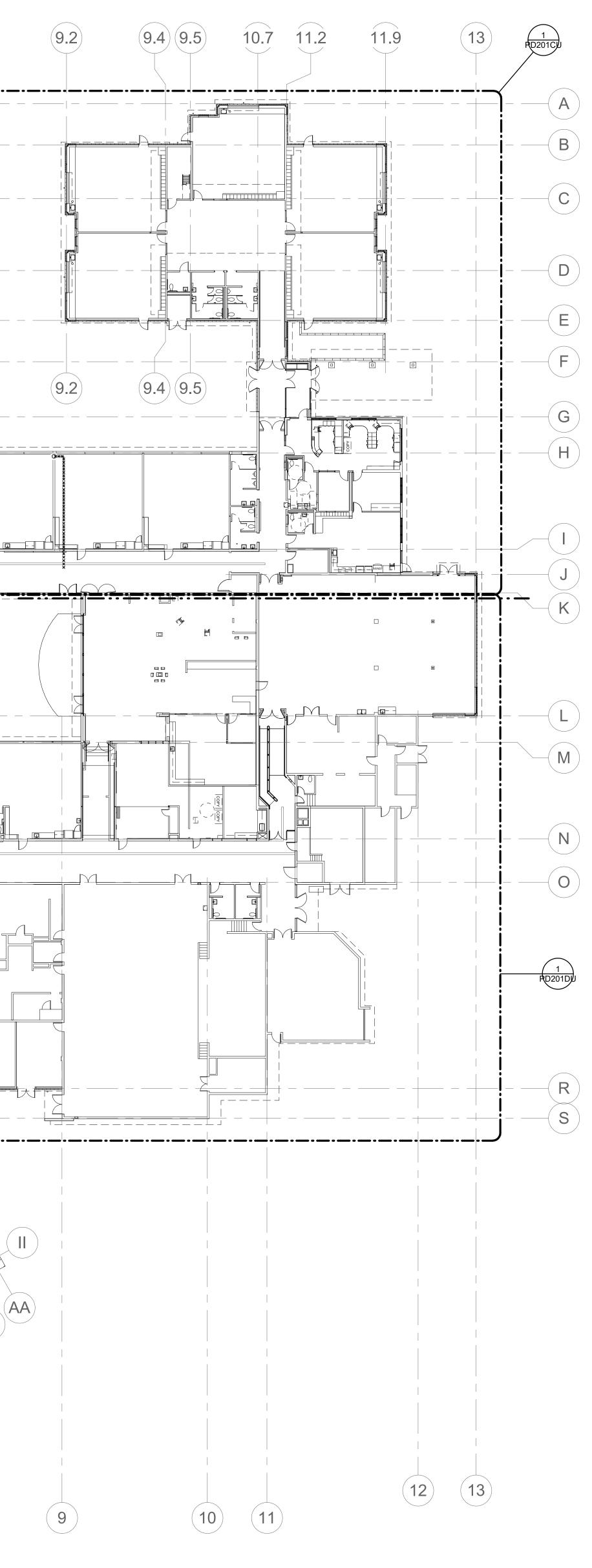
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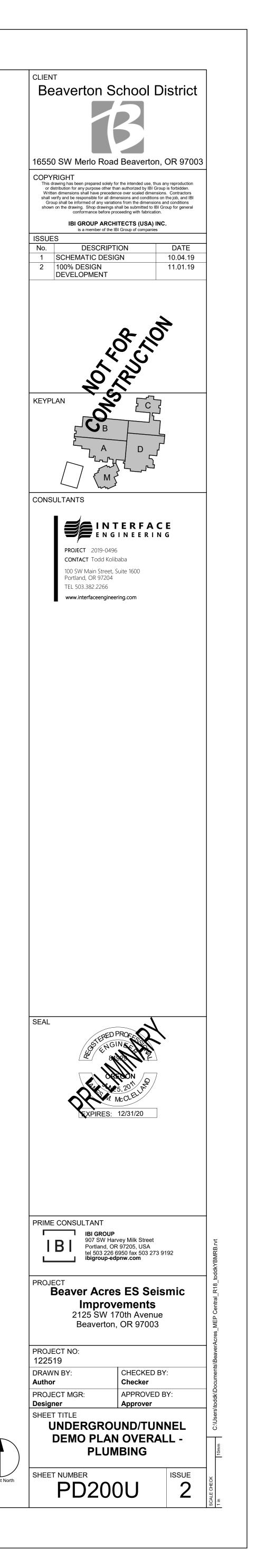
UNDERGROUND/TUNNEL DEMO PLAN OVERALL - PLUMBING

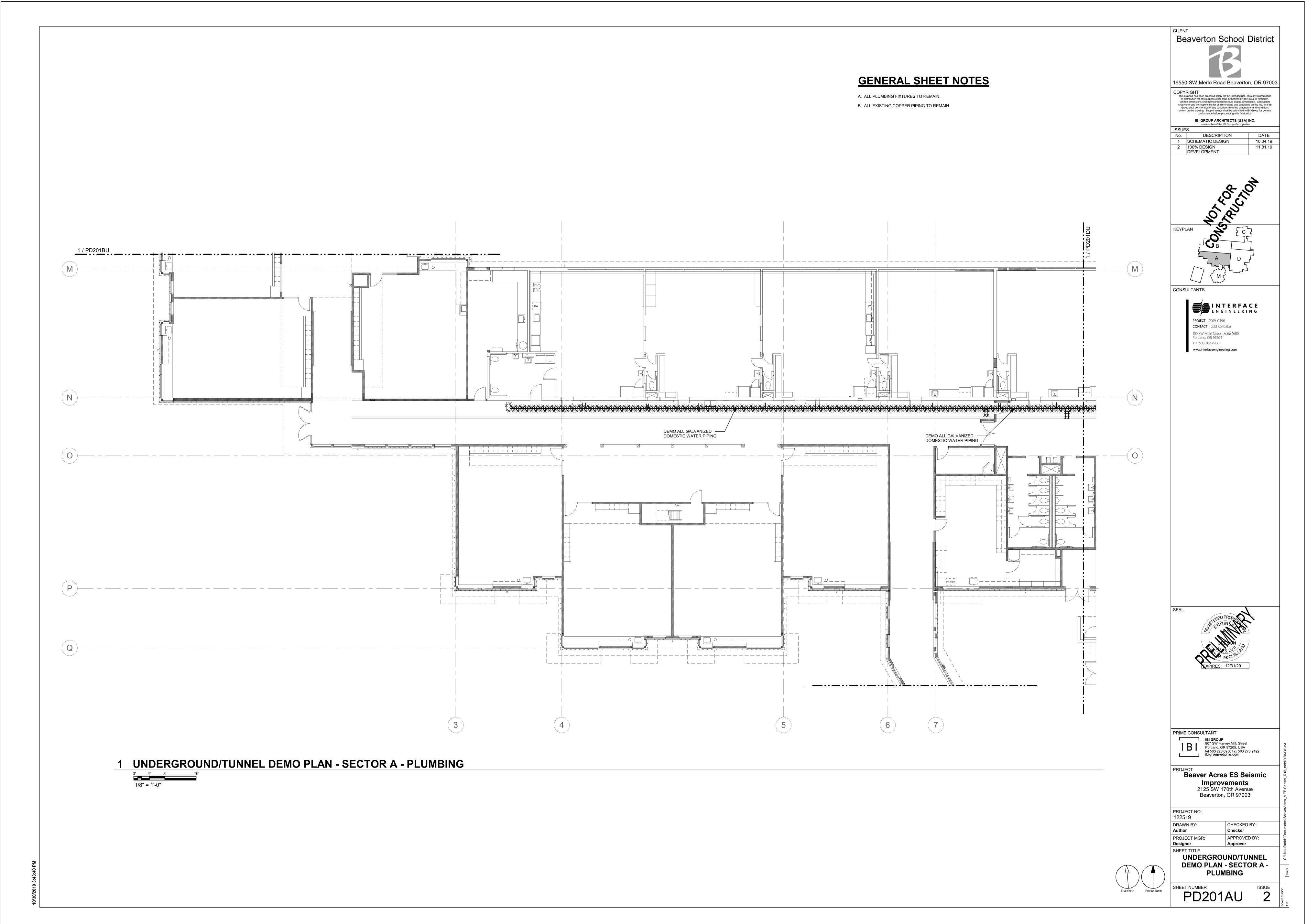
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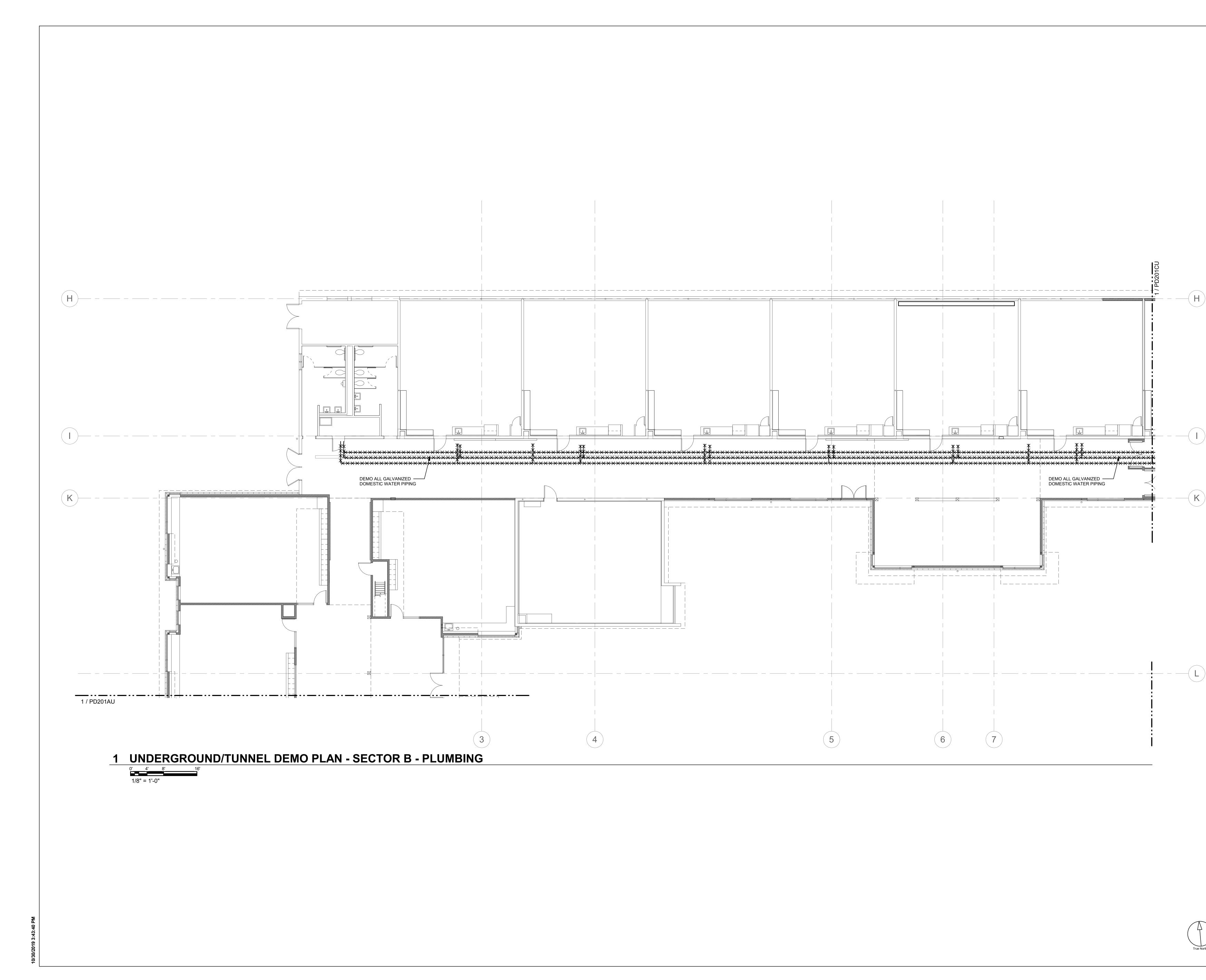
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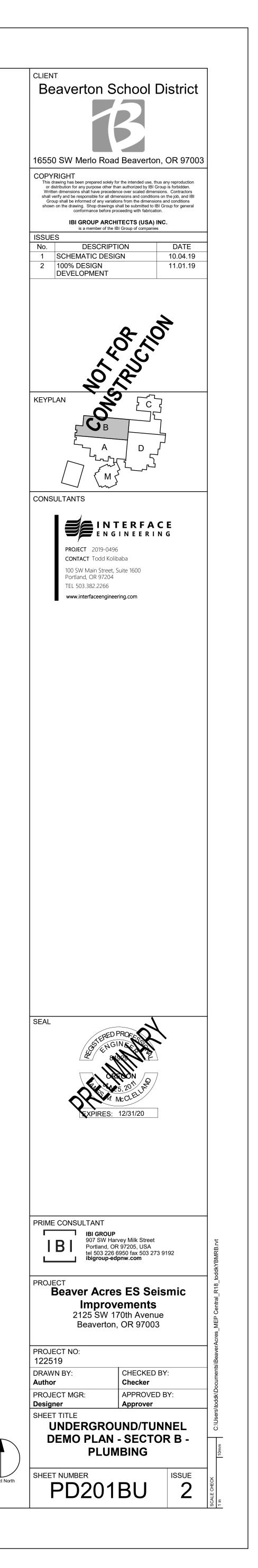
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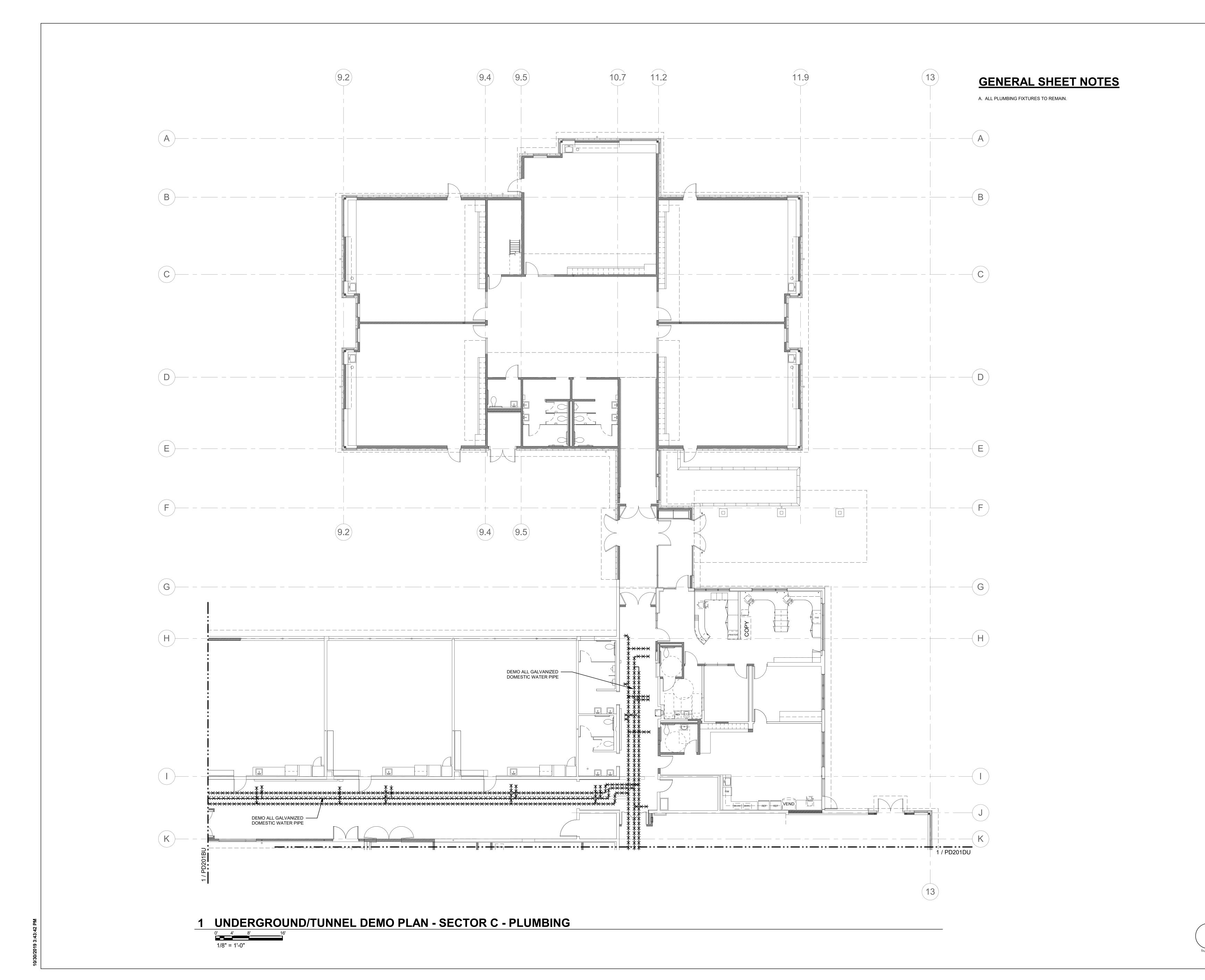


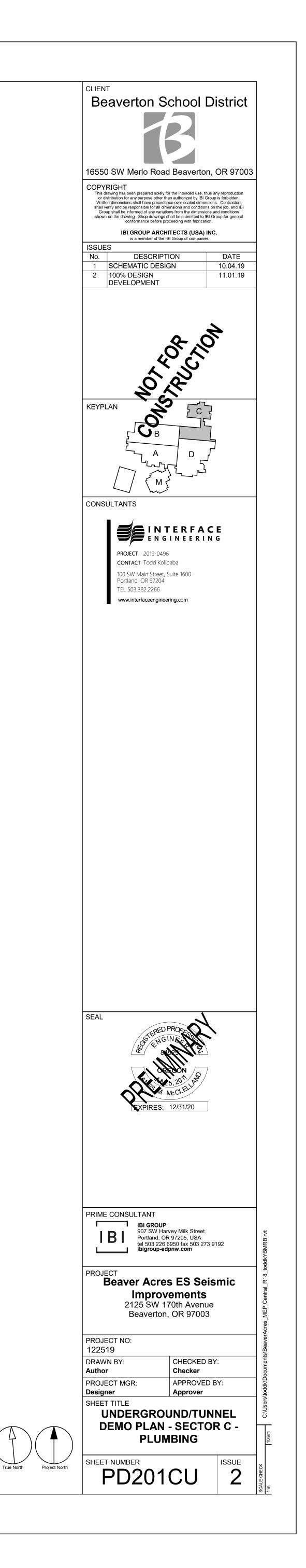


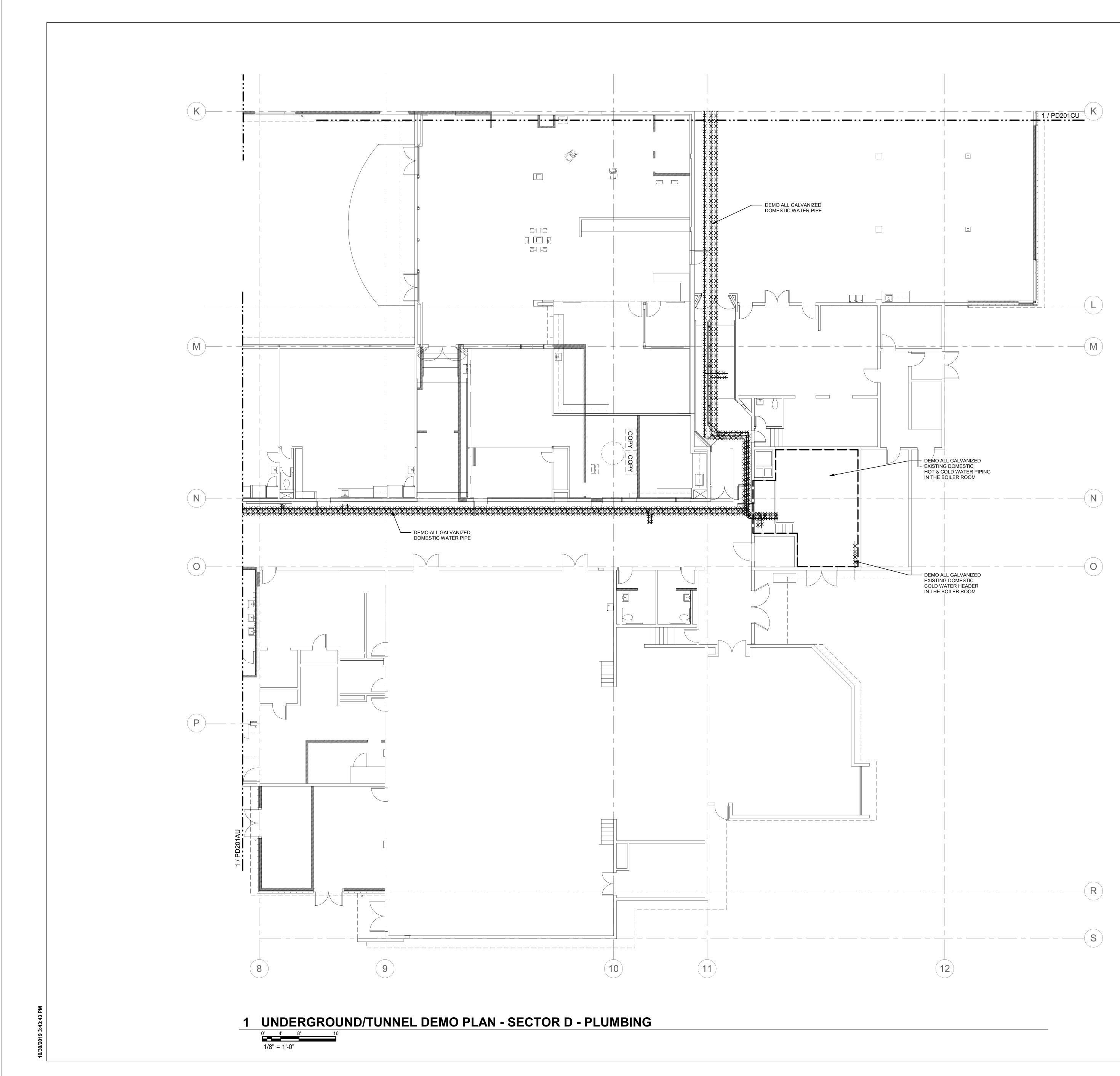


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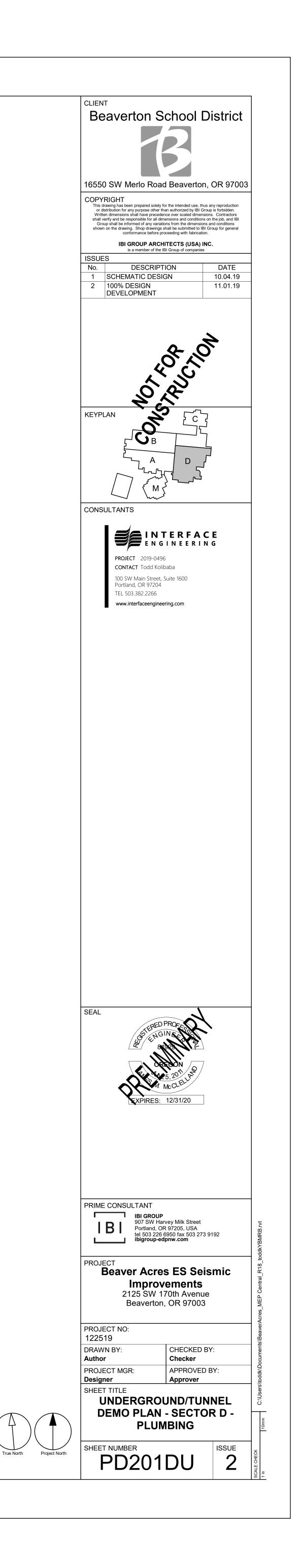


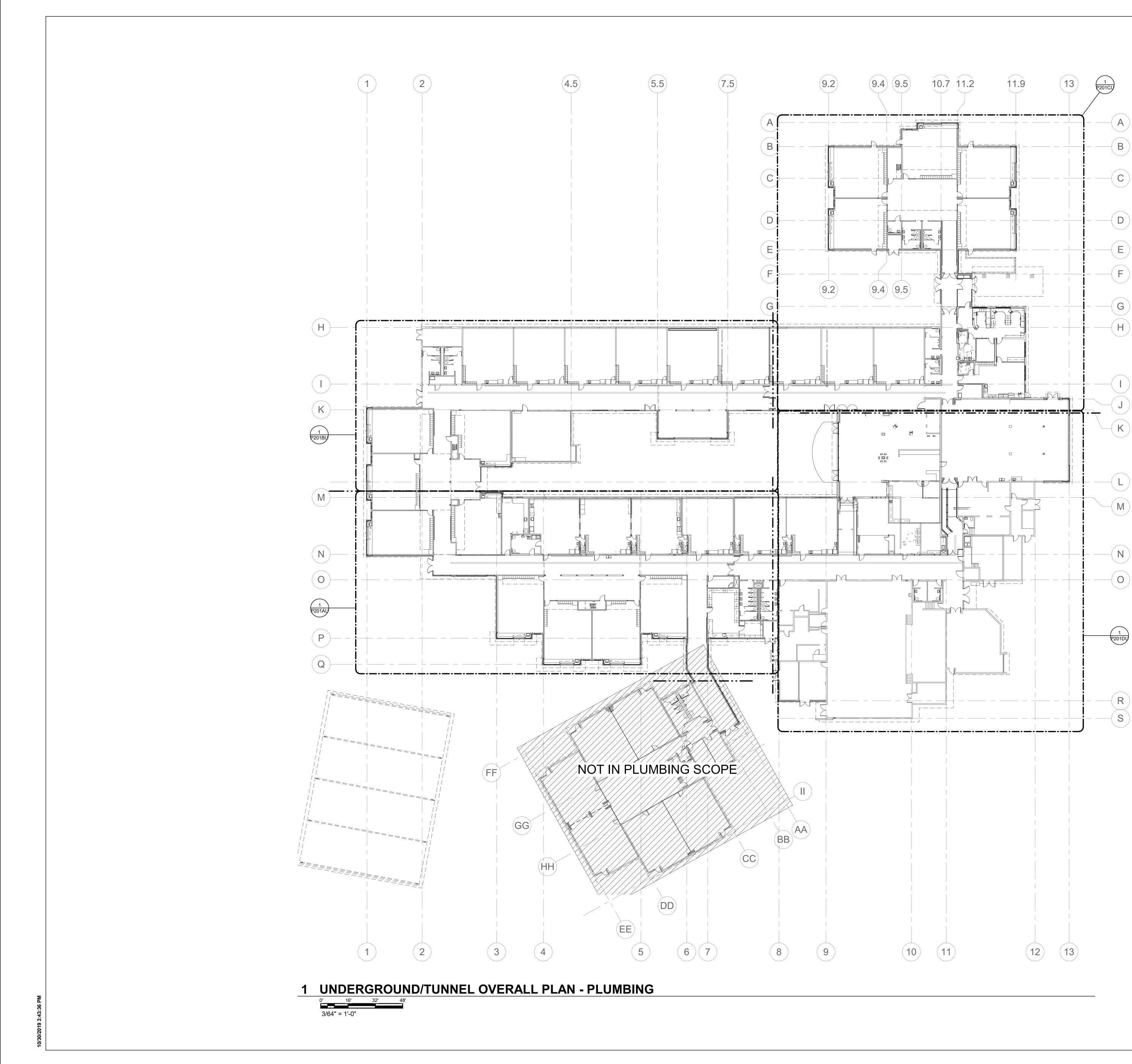




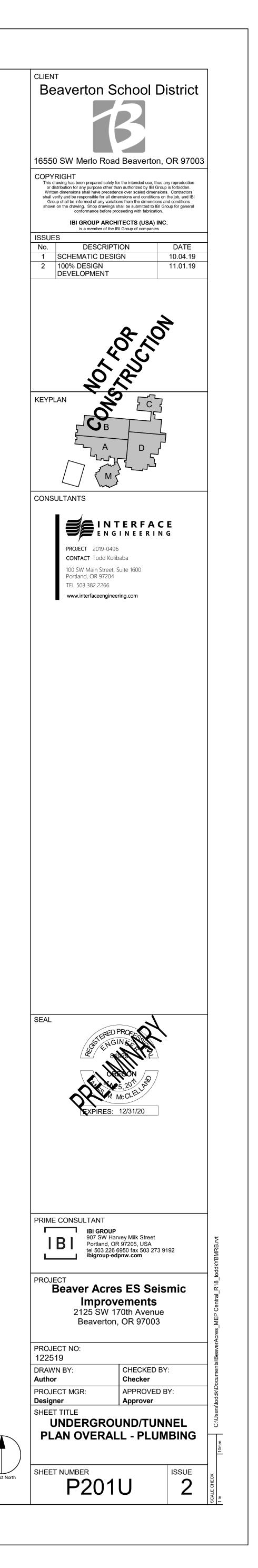
GENERAL SHEET NOTES

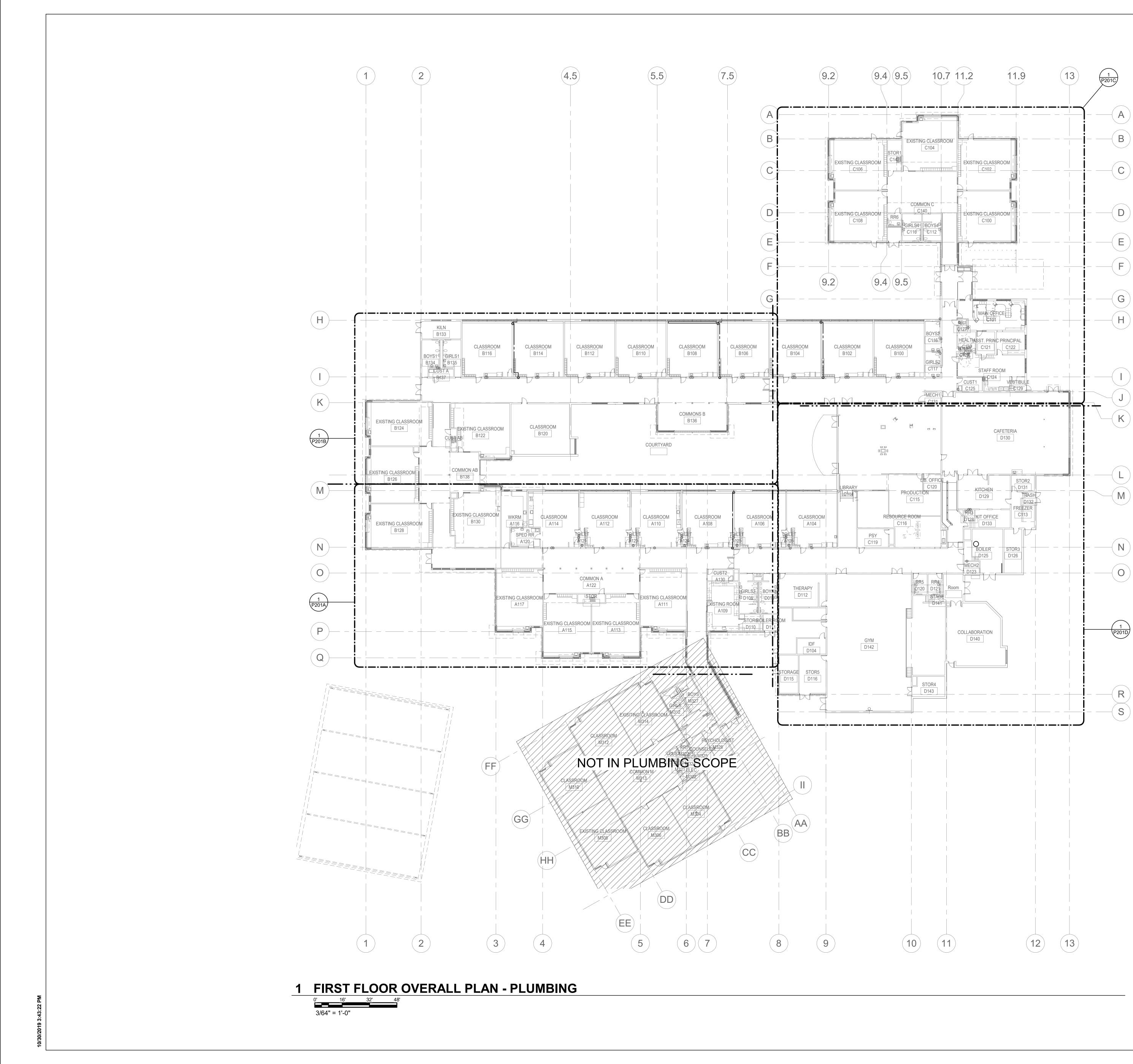
A. ALL PLUMBING FIXTURES TO REMAIN.



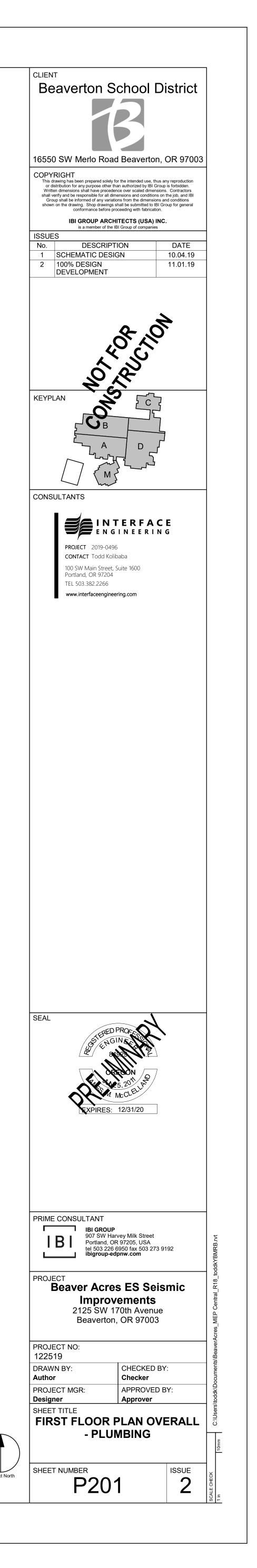


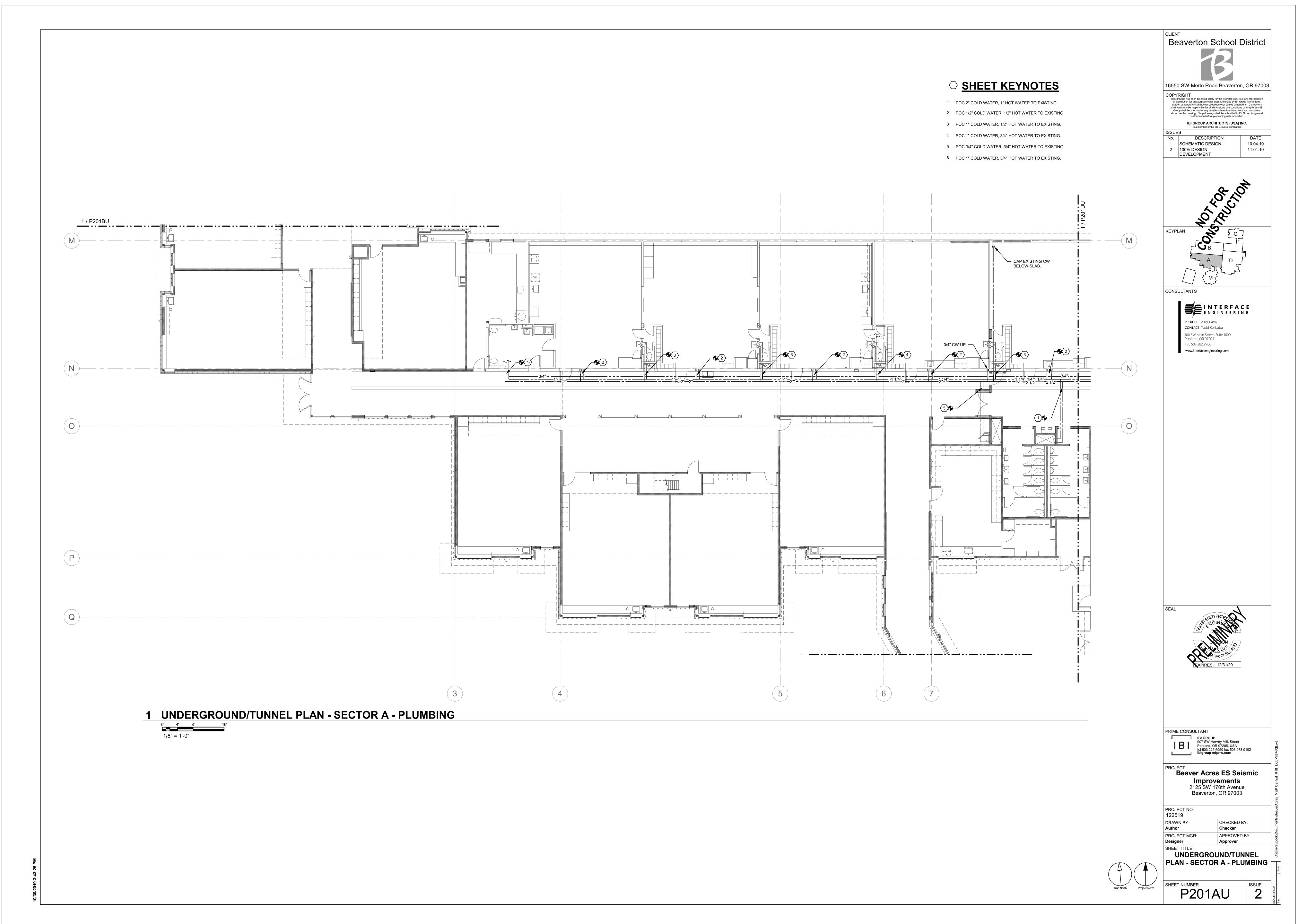
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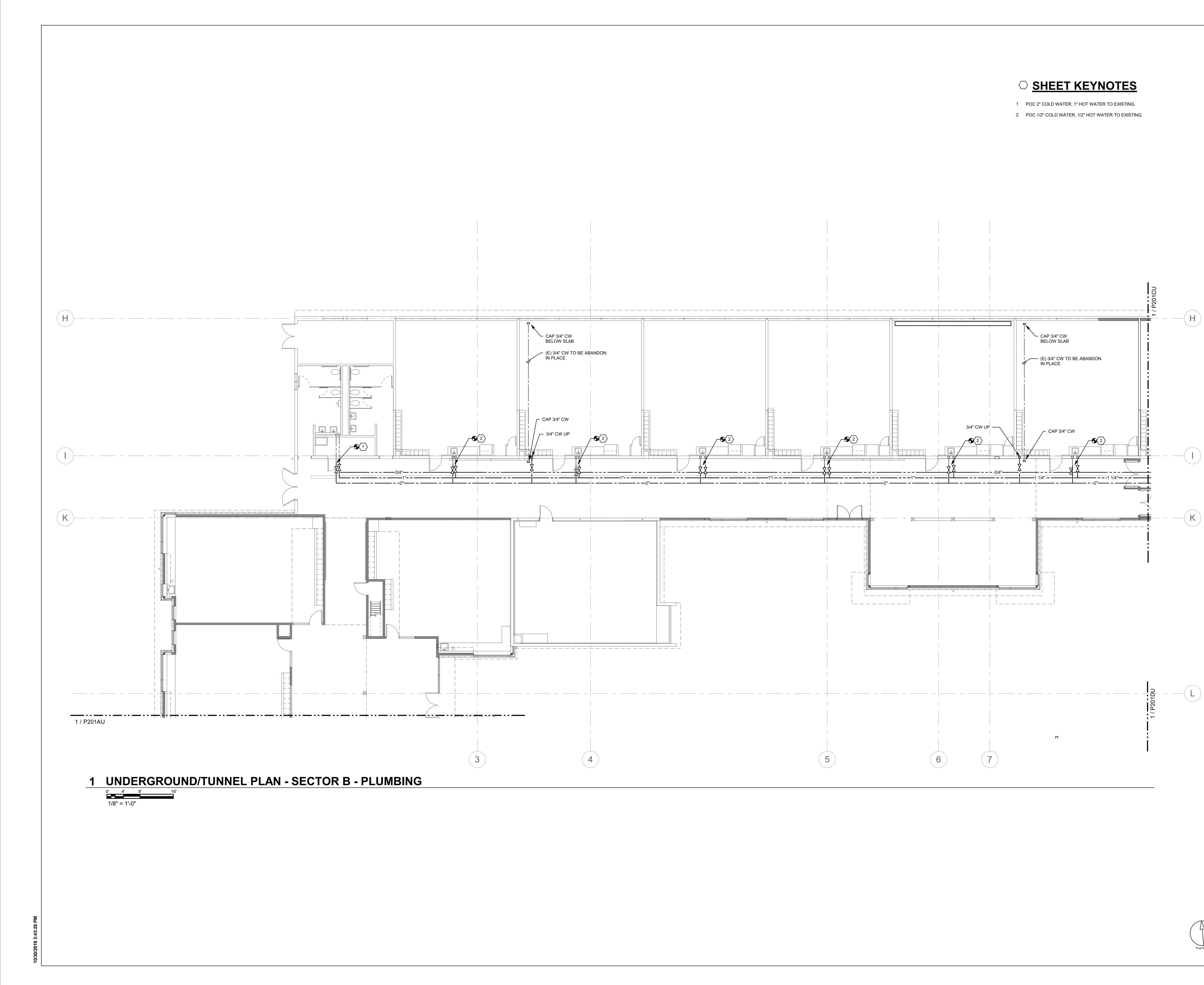




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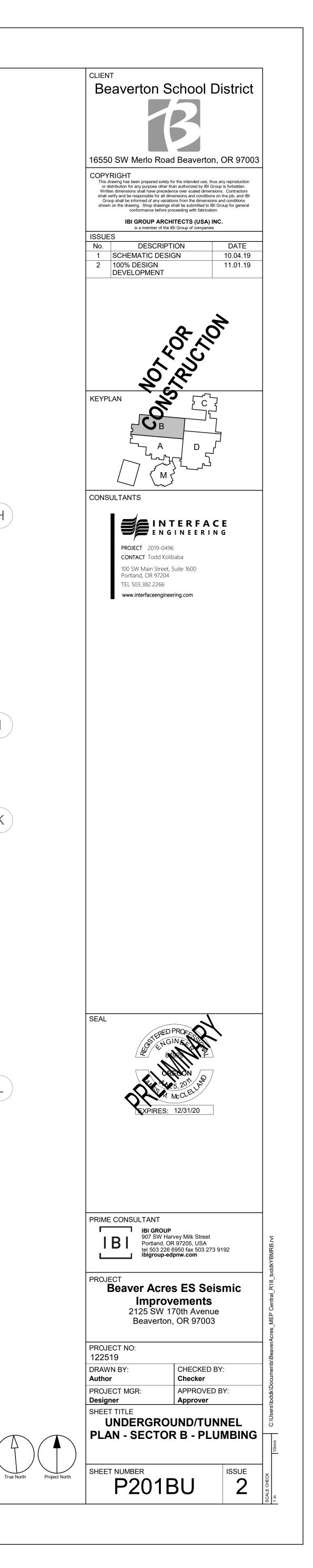


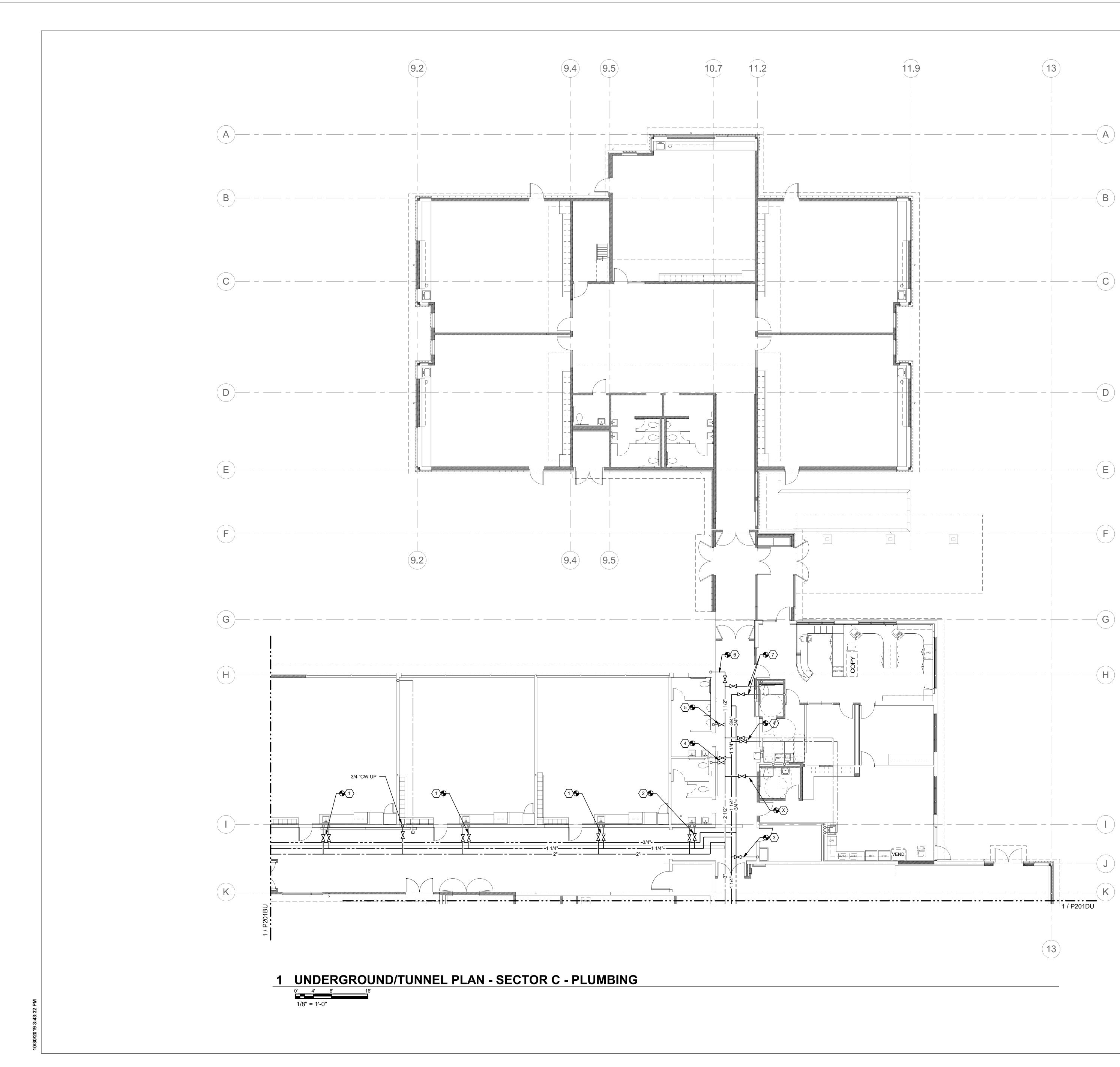






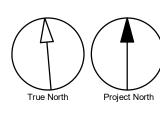
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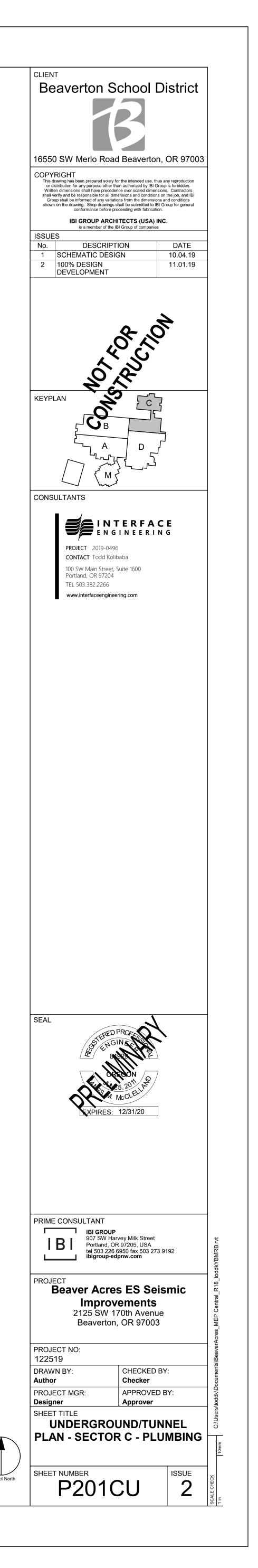


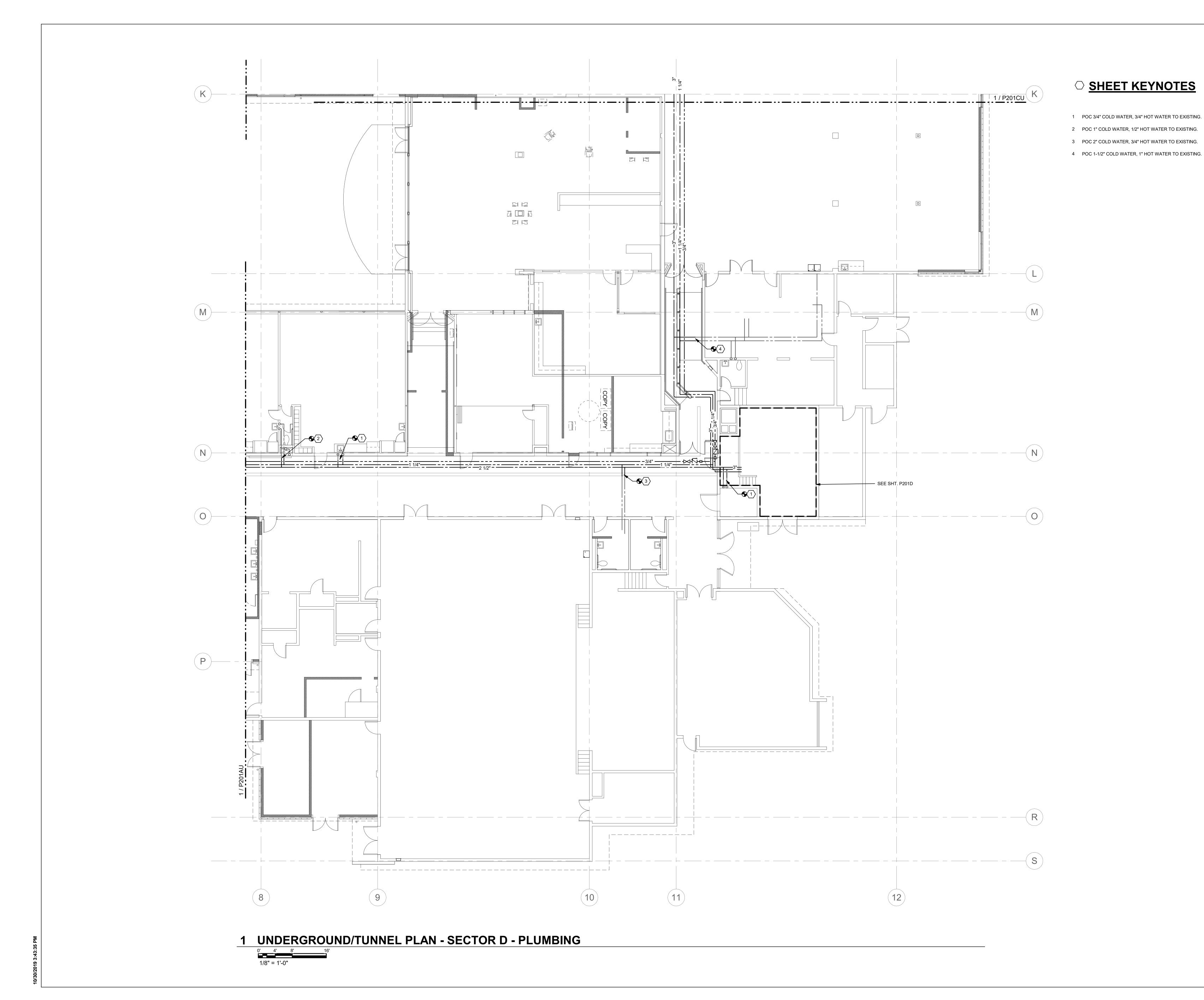


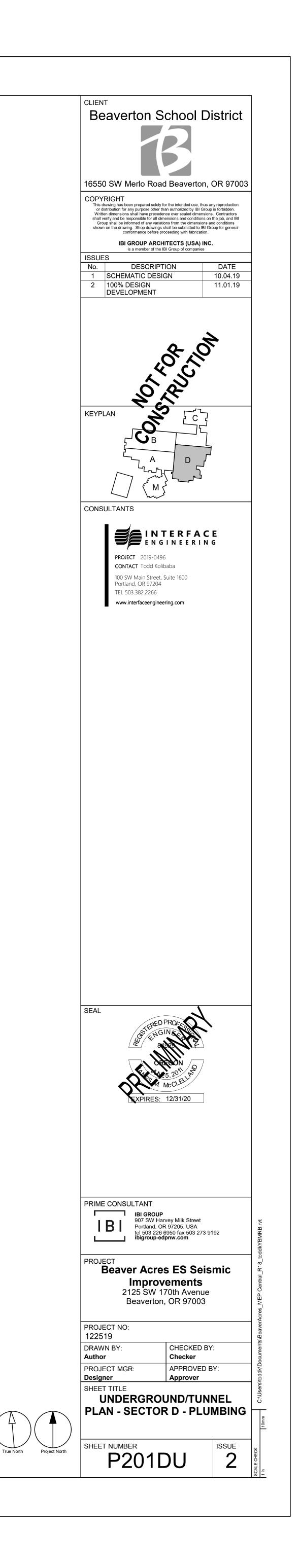
○ SHEET KEYNOTES

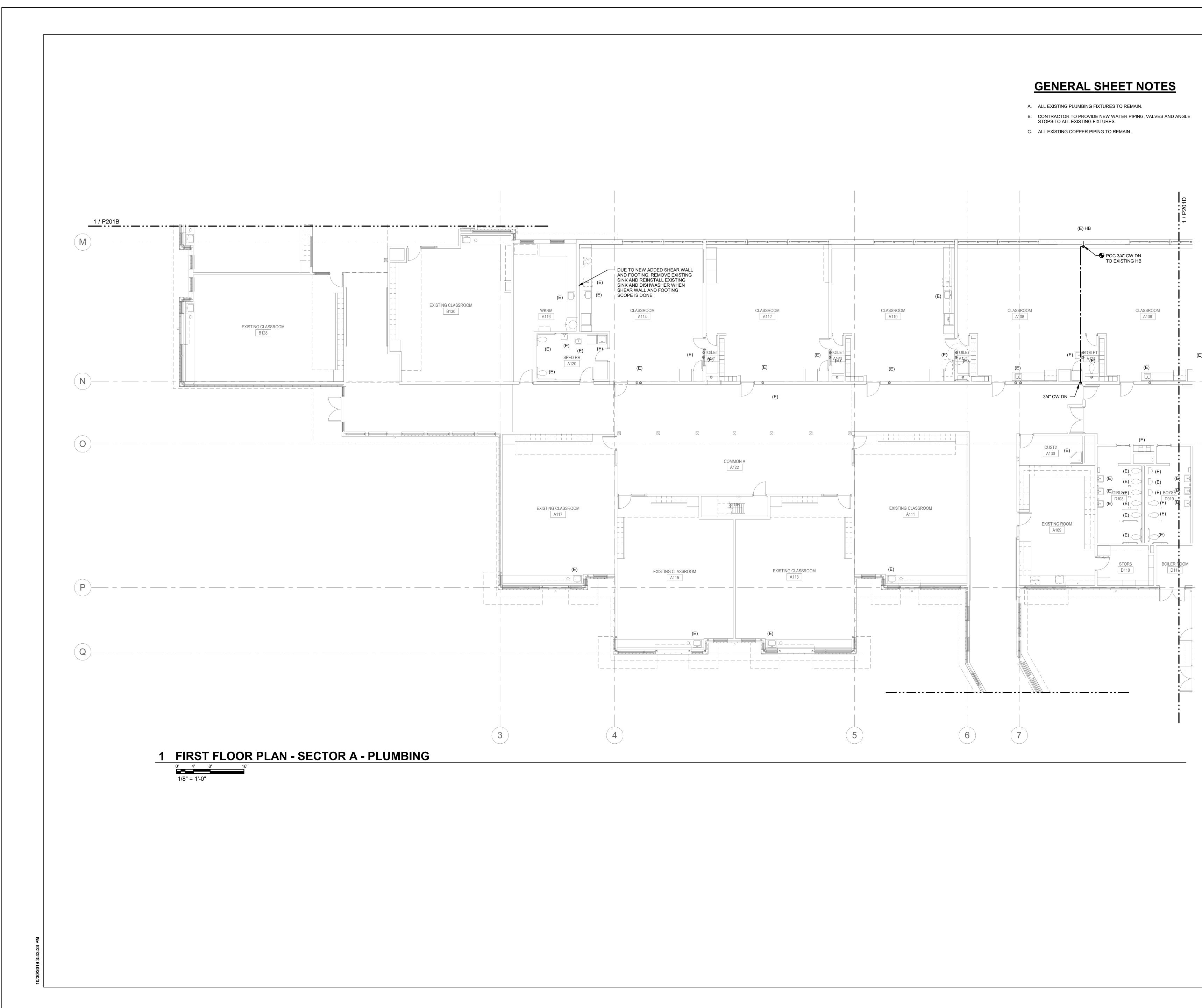
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- 2 POC 3/4" COLD WATER, 3/4" HOT WATER TO EXISTING. 3 POC 3/4" HOT WATER TO EXISTING.
- 4 POC 1-1/2" COLD WATER, 3/4" HOT WATER TO EXISTING.
- 5 POC 1-1/2" COLD WATER TO EXISTING.
- 6 POC 3/4" COLD WATER TO EXISTING.
- 7 POC 1-1/2" COLD WATER, 1/2" HOT WATER TO EXISTING.

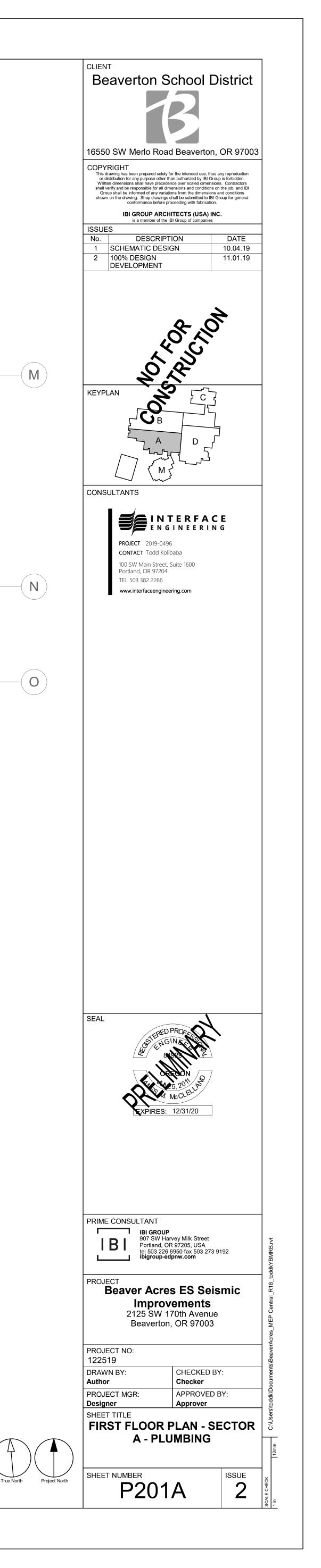


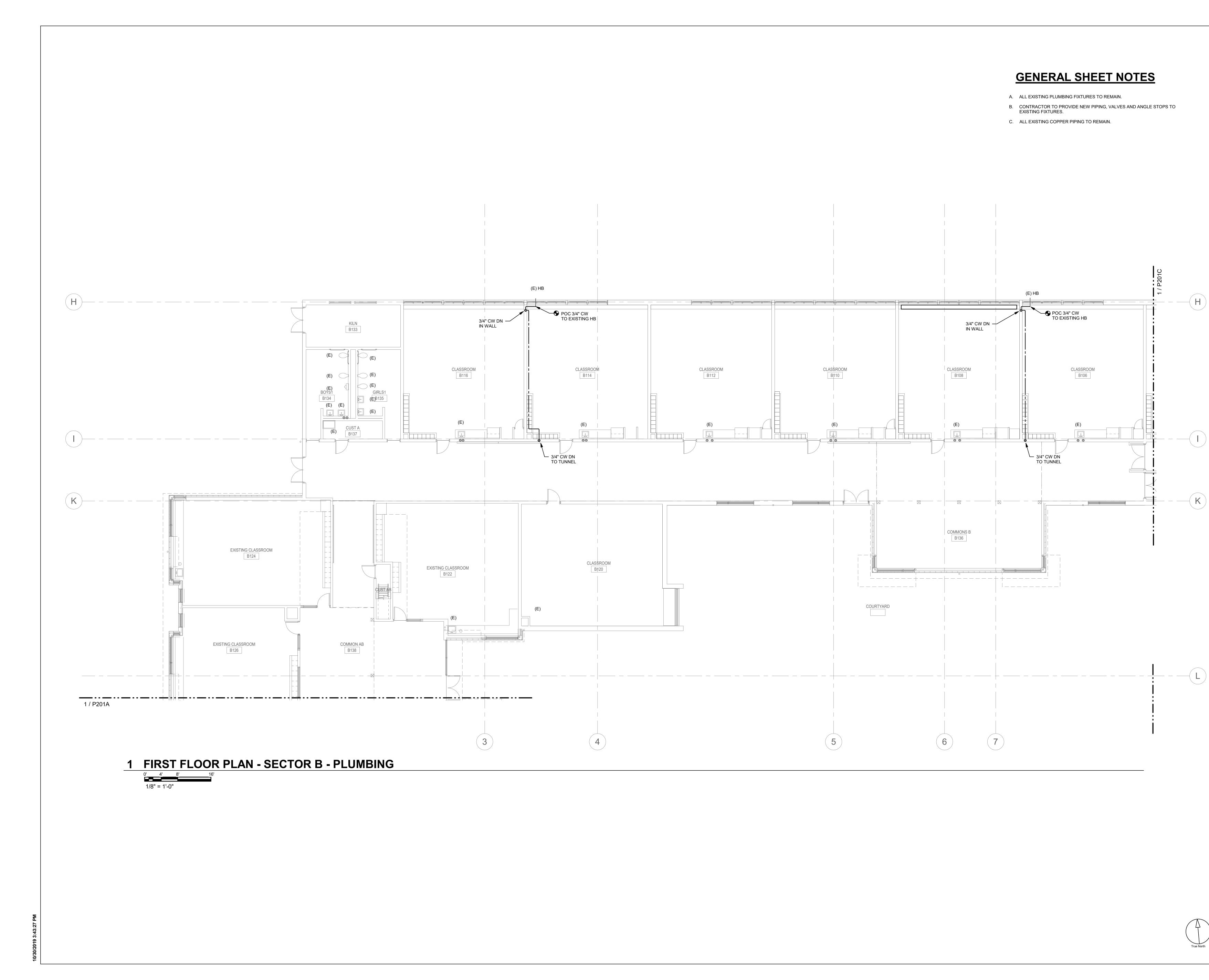


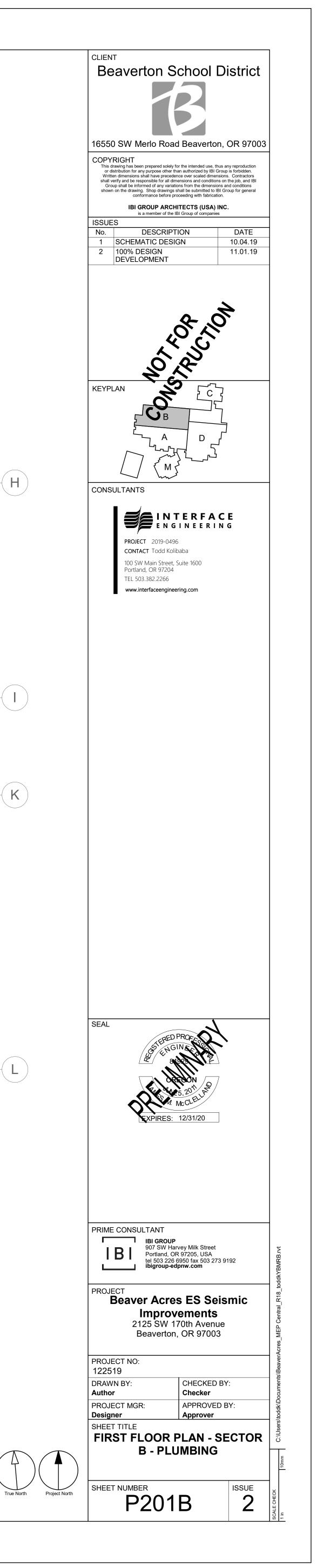


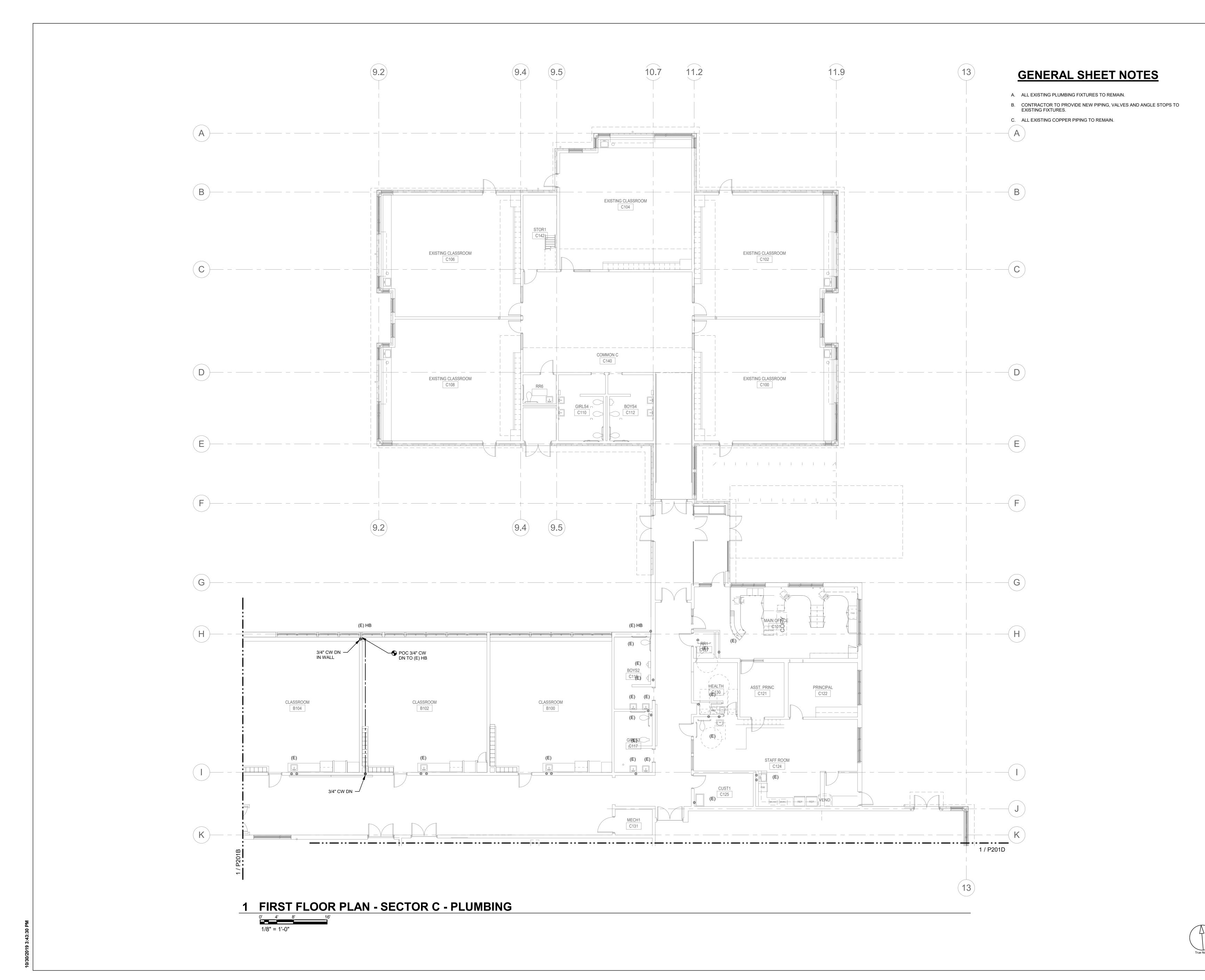


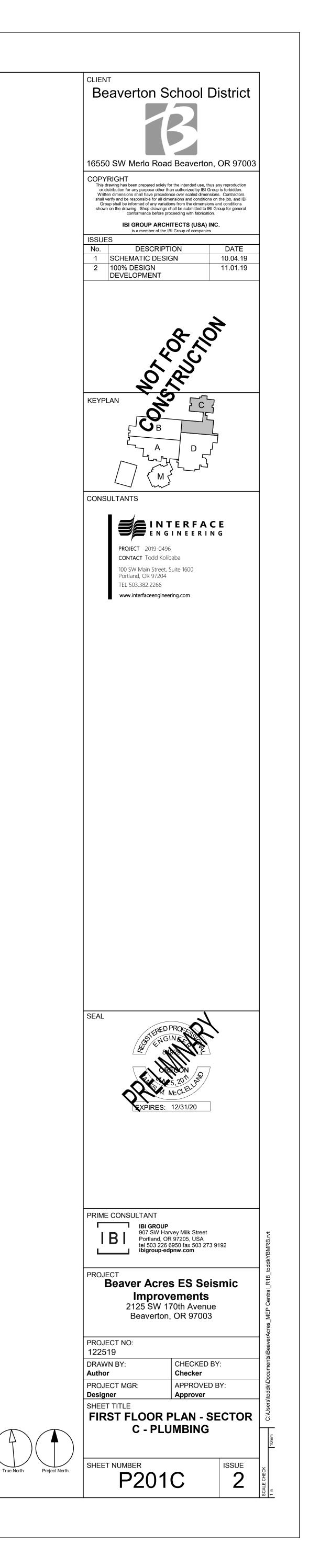


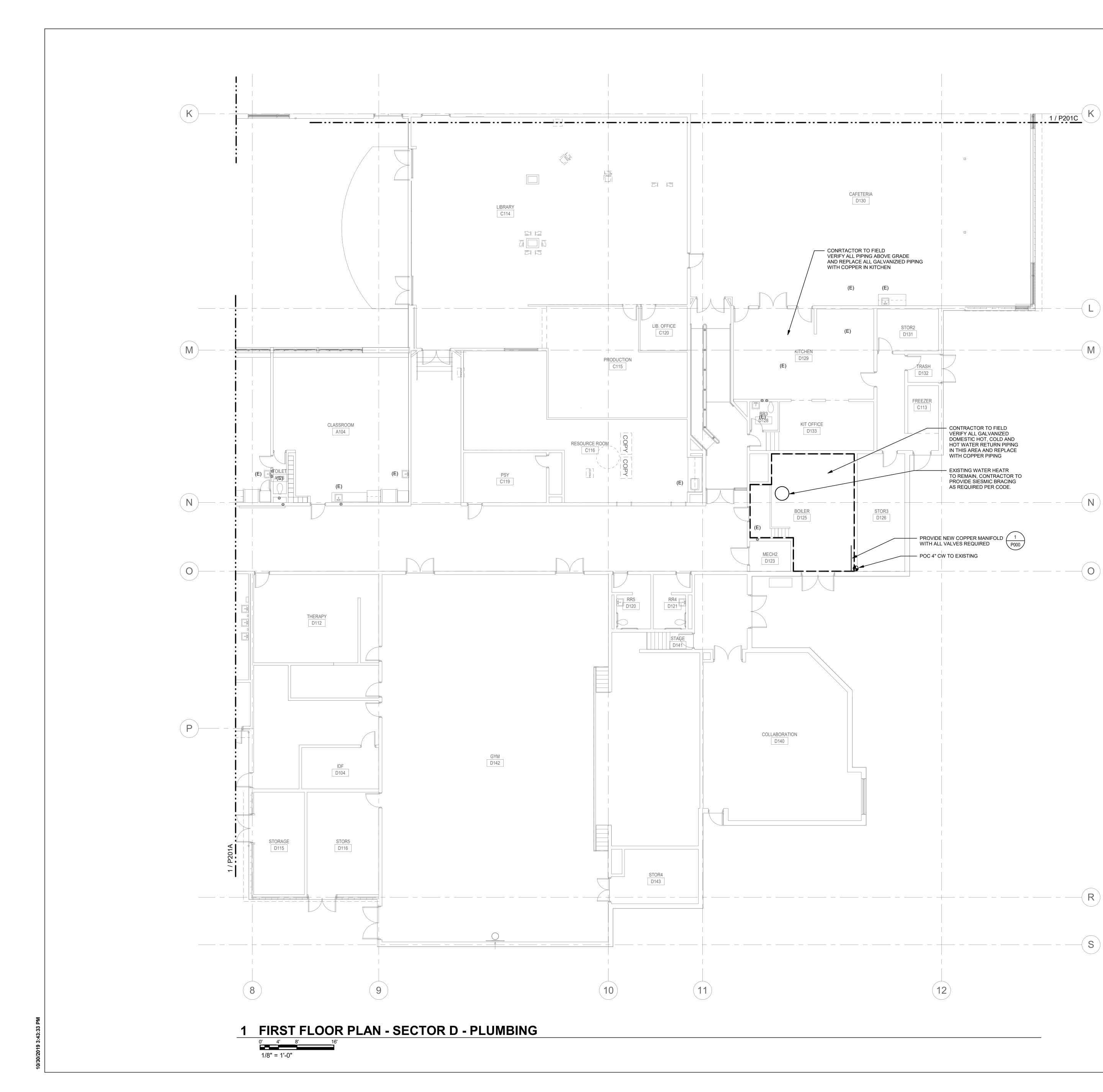




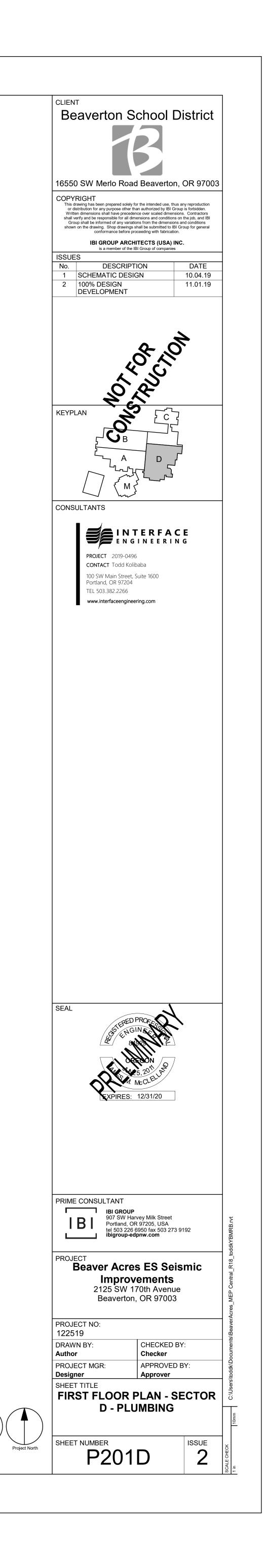




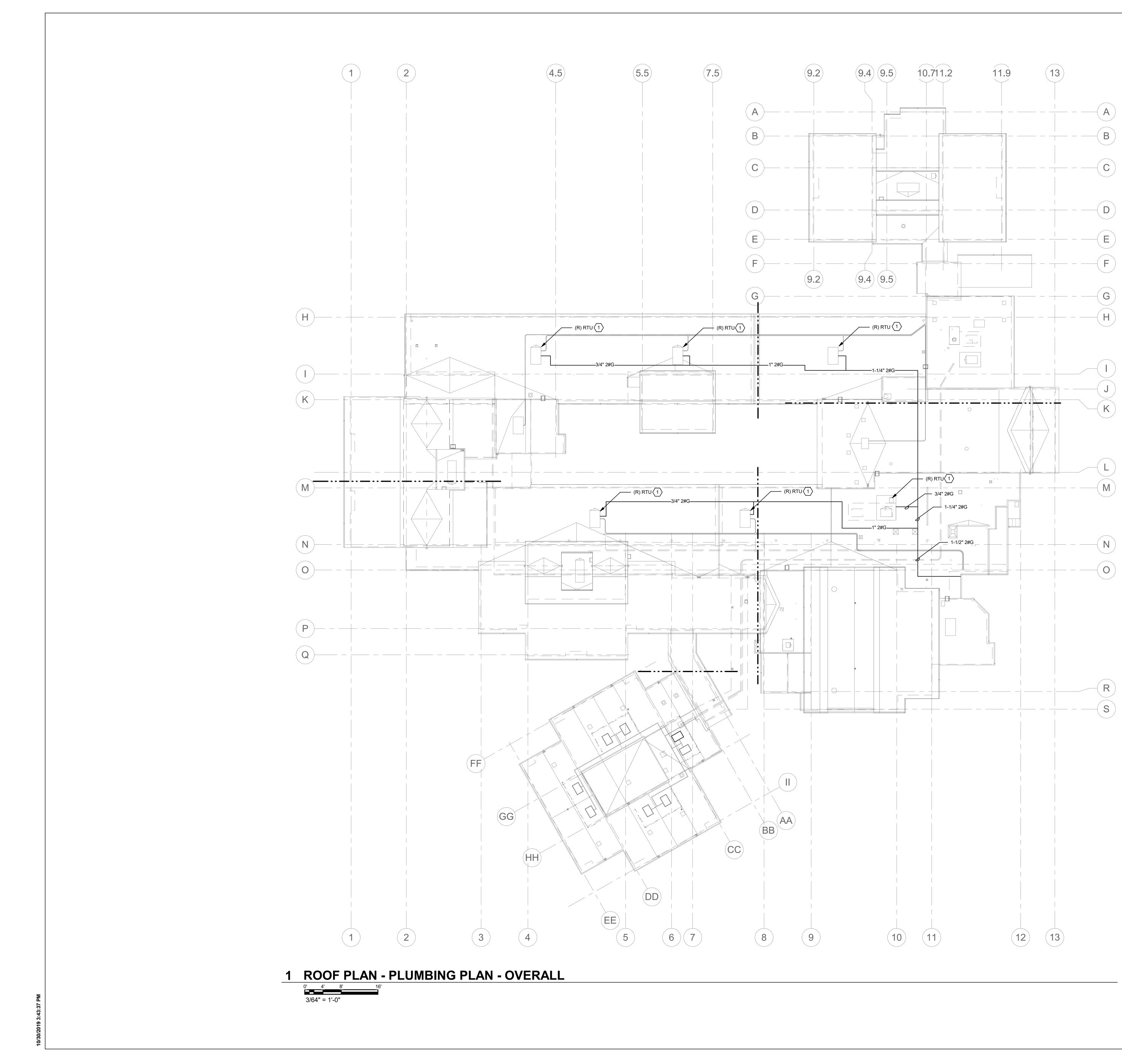




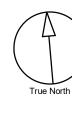
- A. ALL EXISTING PLUMBING FIXTURES TO REMAIN.
- B. CONTRACTOR TO PROVIDE NEW PIPING, VALVES AND ANGLE STOPS TO EXISTING FIXTURES.
- C. ALL EXISTING COPPER PIPING TO REMAIN.

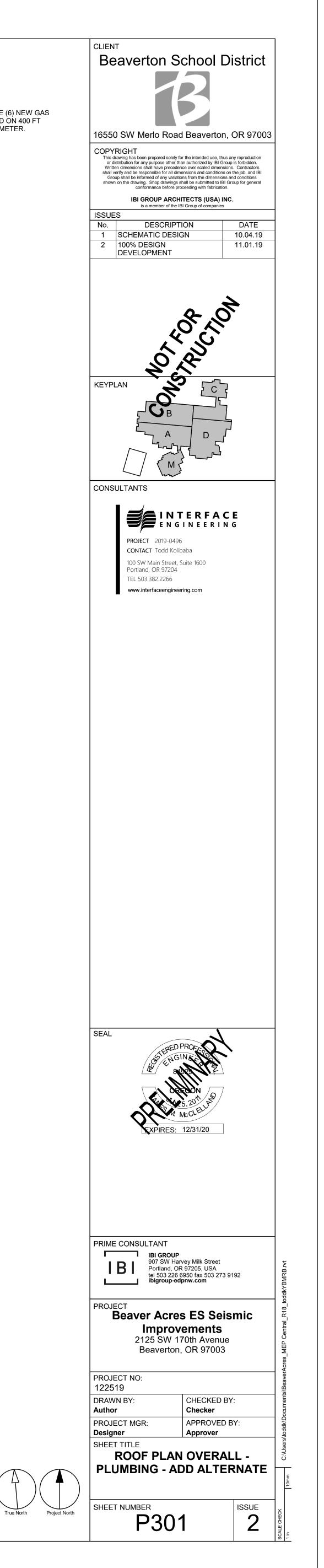


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○ <u>SHEET KEYNOTES</u> 1. ADD ALTERNATE #4: PROVIDE GAS PIPING FOR THE (6) NEW GAS FIRED HVAC UNITS @ 300 MBH (PIPING SIZED BASED ON 400 FT AND 1800 MBH ADDED LOAD TO THE EXISTING GAS METER.





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WP WEATHERPROOF Image: Construction of the second construction of th			_	
W/ WITH W/O WITHOUT WAO WORK AREA OUTLET WAO WORK AREA OUTLET	WP	WEATHERPROOF	Ø	RECESSED LUMINAIRE
W/O WITHOUT CIRCUIT WAO WORK AREA OUTLET SURFACE MOUNTED 2' X 2' LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL				RECESSED LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFET
SURFACE MOUNTED 2' X 2' LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL	W/O	WITHOUT		
I♥I EIVIERGENCT/LIFE SAFETT CIRCUIT OR WITH INTEGRAL	****			
EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRC				EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT

ections	/ Equipment COMBINATION ADJUSTABLE FREQUENCY DRIVE WITH SAFETY DISCONNECT SWITCH
2 4	COMBINATION MOTOR STARTER/FUSED DISCONNECT SWITCH
©	CONTACTOR COIL
Ē	HEAVY DUTY FUSED DISCONNECT SWITCH
<i>с</i>	MOTOR CONNECTION
2	NON-FUSED DISCONNECT SWITCH
R	RELAY
DRI	REMOTE DRIVER FOR LED LUMINAIRES
т	TRANSFORMER
SD	FIRE SMOKE DAMPER
90	SMOKE DAMPER
J	CEILING MOUNTED JUNCTION BOX
J	FLOOR MOUNTED JUNCTION BOX
<u> </u>	WALL-MOUNTED JUNCTION BOX
al	
$\frac{x}{x}$	DETAIL NUMBER AND SHEET LOCATION
	EQUIPMENT IDENTIFICATION
<u>1</u> >	KEYED NOTE
ð	POINT OF CONNECTION
A XXX	SECTION NUMBER AND SHEET LOCATION
X	DEMOLISH
	EXISTING WORK
	NEW WORK
<u>ng</u> ®⊲	COMBINATION EXIT SIGN CEILING MOUNTED AND DUAL HEAD EMERGENCY EGRESS LIGHTING WITH BATTERY PACK. ARRROW(S)
P	INDICATES DIRECTION IF SHOWN COMBINATION EXIT SIGN WALL MOUNTED AND DUAL HEAD EMERGENCY EGRESS LIGHTING WITH BATTERY PACK. ARRROW(S) INDICATES DIRECTION IF SHOWN
₽	EMERGENCY LUMINAIRE WITH BATTERY PACK
8	EXIT SIGN CEILING MOUNTED, ARROW(S) INDICATES DIRECTION IF SHOWN
\$	EXIT SIGN WALL MOUNTED, ARROW(S) INDICATES DIRECTION IF SHOWN
	RECESSED 1' X 4' LUMINAIRE
	RECESSED 1' X 4' LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT
	RECESSED 2' X 2' LUMINAIRE
	RECESSED 2' X 2' LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT
	RECESSED 2' X 4' LUMINAIRE
	RECESSED 2' X 4' LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT
0	RECESSED LUMINAIRE
	RECESSED LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT
	SURFACE MOUNTED 2' X 2' LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL

ELECTRICAL SYMBOL LIST

		Switches and	l Receptacles
0	SURFACE MOUNTED 2' X 4' LUMINAIRE		COMBINATION COMMUNICATIONS OUTLET AND DOUBLE DUPLEX RECEPTACLE, FLUSH FLOOR
	SURFACE MOUNTED 2' X 4' LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT		COMBINATION COMMUNICATIONS OUTLET AND DUPLEX RECEPTACLE, FLUSH FLOOR
	SURFACE OR PENDANT MOUNTED 1' X 4' LUMINAIRE		DUPLEX RECEPTACLE (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS)
	SURFACE OR PENDANT MOUNTED 1' X 4' LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT		A = ABOVE COUNTER B = CLOCK HANGER C = FLUSH CEILING MOUNTED E = EMERGENCY
0	SURFACE OR PENDANT MOUNTED 1' X 8' LUMINAIRE		F = ARC FAULT PROTECTED BY BREAKER IN PANEL G = GROUND FAULT CIRCUIT INTERRUPTER H = HOSPITAL GRADE K = CHILD RESISTANT COVER
	SURFACE OR PENDANT MOUNTED 6" X 8' LUMINAIRE	Φ	L = ISOLATED GROUND P = PENDANT MOUNTED WITH CORD GRIPS. VERIFY PENDANT LENGTH
٠	SURFACE OR PENDANT MOUNTED LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT		R1 = HALF SWITCHED BY OCCUPANCY SENSOR RELAY R2 = FULLY SWITCHED BY OCCUPANCY SENSOR RELAY S = SPLIT WIRED T = TAMPER RESISTANT SHUTTERED RECEPTACLE
	SURFACE OR PENDANT MOUNTED STRIPLIGHT		U = USB PORT(S) W = WEATHERPROOF CONTINUOUS USE COVER, GFCI PROTECTED, WITH WEATHER-RESISTANT RECEPTACLE
ŢŶŢ	WALL MOUNTED 6" WIDE LUMINAIRE	\square	DUPLEX RECEPTACLE, FLUSH FLOOR
⋤●⋥	WALL MOUNTED 6" WIDE LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT	(DOUBLE DUPLEX RECEPTACLE, FLUSH FLOOR
ĻOŢ	WALL MOUNTED 12" WIDE LUMINAIRE		DOUBLE DUPLEX RECEPTACLE. SEE LETTER CODE LIST AT DUPLEX RECEPTACLE FOR OPTIONS
⋤●⋥	WALL MOUNTED 12" WIDE LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT	\square	SINGLE RECEPTACLE, FLUSH FLOOR
오	WALL MOUNTED LUMINAIRE	Φ	SINGLE RECEPTACLE. SEE LETTER CODE LIST AT DUPLEX RECEPTACLE FOR OPTIONS
£	WALL MOUNTED LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT	۲	EQUIPMENT ELECTRICAL CONNECTION
<u>Miscellaneou</u>			SPECIAL PURPOSE RECEPTACLE. LETTER CODE DENOTES RECEPTACLE CONFIGURATION LX-XXR = NEMA CONFIGURATION TWIST-LOCK RECEPTACLE
#10	PANEL WITH CIRCUITS AS NOTED. WIRE SIZE IS #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE PHASE CONDUCTORS. LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. A SINGLE CURVED TICK MARK INDICATES	\diamond	X-XXR = NEMA CONFIGURATION STRAIGHT BLADE RECEPTACLE P = PENDANT MOUNT WITH CORD GRIPS. VERIFY PENDANT LENGTH X = COORDINATE RECEPTACLE CONFIGURATION WITH EQUIPMENT BEING SUPPLIED
B-27,29,31.	INSULATED GREEN GROUND CONDUCTOR. SECOND CURVED TICK MARK INDICATES "ISOLATED GROUND" (GREEN INSULATION WITH YELLOW STRIPE) CONDUCTOR.	$\varphi_{\scriptscriptstyle P}$	PENDANT RECEPTACLE WITH CORD GRIPS. VERIFY PENDANT LENGTH. SEE LETTER CODE LIST AT DUPLEX RECEPTACLE FOR OPTIONS
	BRANCH PANEL	_	CEILING MOUNTED OCCUPANCY SENSOR P = PASSIVE INFRARED D = DUAL TECHNOLOGY
	CIRCUIT BREAKER	os	U = ULTRASONIC, 360 DEG RANGE H = ULTRASONIC, HALLWAY PATTERN v (LOWERCASE) = VACANCY CONTROL DESIGNATION
	DRY TYPE TRANSFORMER	osH	WALL MOUNTED OCCUPANCY SENSOR P = PASSIVE INFRARED D = DUAL TECHNOLOGY v (LOWERCASE) = VACANCY CONTROL DESIGNATION
	FLUSH MOUNT EQUIPMENT ENCLOSURE AS NOTED	ssH	WALL MOUNTED OCCUPANCY SENSOR/SWITCH S = PASSIVE INFRARED WITH INTEGRAL "OFF" SWITCH T = DUAL RELAY PASSIVE INFRARED WITH TWO INTEGRAL "OFF" SWITCHES
	FLUSH WALL MOUNTED BRANCH PANEL		D = PASSIVE INFRARED WITH INTEGRAL DIMMER TO OFF. v (LOWERCASE) = VACANCY CONTROL DESIGNATION
GB	GROUND BAR		MULTIPLE CHANNEL SURFACE METAL RECEPTACLE RACEWAY WITH LOW VOLTAGE DIVIDERS, LENGTH AND RECEPTACLES AS INDICATED
• lı	GROUNDING POINT	·····	SURFACE METAL RECEPTACLE RACEWAY
	MAIN DISTRIBUTION PANEL / SUB DISTRIBUTION PANEL	0	PHOTO ELECTRIC SWITCH D = CONTINUOUS DIMMING PHOTOCELL S = SWITCHED PHOTOCELL SINGLE POLE SWITCH
Ν	SURFACE MOUNT EQUIPMENT ENCLOSURE AS NOTED		2 = DOUBLE POLE SWITCH 3 = THREE-WAY SWITCH 4 = FOUR-WAY SWITCH a THRU z (LOWERCASE) = LUMINAIRE CONTROL DESIGNATION
<u>Raceways</u> 	EXISTING CONDUIT CONCEALED IN WALL OR CEILING SPACE	\$	D = DIMMER F = FAN SPEED CONTROL K = KEY OPERATED SWITCH L = LIGHTED HANDLE M = MANUAL MOTOR STARTER WITH THERMAL OVERLOAD
	EXISTING CONDUIT ROUTED BELOW FLOOR / GRADE		P = SWITCH WITH PILOT LIGHT S = SENTRY SWITCH T = INTERVAL TIMER W = WEATHERPROOF SWITCH
	CONDUIT CONCEALED IN WALL OR CEILING SPACE	Telecommun	V = LOW VOLTAGE SWITCH
	CONDUIT ROUTED BELOW FLOOR / GRADE	<u></u>	RACEWAY ONLY DATA/TELEPHONE OUTLET. PROVIDE DOUBLE GANG BACK BOX AND SINGLE GANG ADAPTER PLATE WITH 1" C. AND PULLSTRING TO ACCESSIBLE CEILING SPACE.
•	CONDUIT ELLED DOWN	V	(MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS) A = ABOVE COUNTER C = CEILING MOUNTED ABOVE ACCESSIBLE CEILING F = FLUSH CEILING MOUNTED R = SURFACE MOUNTED ON RACEWAY
———————————————————————————————————————	CONDUIT ELLED UP	•	RACEWAY ONLY TELEPHONE OUTLET. PROVIDE DOUBLE GANG BACK BOX AND SINGLE GANG ADAPTER PLATE WITH 3/4" C. AND PULLSTRING TO ACCESSIBLE CEILING SPACE. SEE LETTER CODE
	CONDUIT/WIRING CONTINUATION		LIST AT DATA/TELEPHONE OUTLET FOR OPTIONS.
——Э	CONDUIT/WIRING STUBBED OUT WITH END CAP OR INSULATED PLASTIC BUSHING		
~~~~~	FLEXIBLE CONDUIT		

------ FLEXIBLE CONDUIT

### **GENERAL ELECTRICAL NOTES**

A. PROVIDE FLEXIBLE COUPLINGS FOR CONDUIT LARGER THAN 2.5" TRADE SIZE ATTACHED TO PANELS, CABINETS OR OTHER EQUIPMENT.

### **ELECTRICAL NARRATIVE**

Seismic Upgrade The electrical design scope focuses on removal, replacement and reinstallation of electrical system components and equipment that are impacted by new roof work and seismic strengthening of interior walls. Additional seismic deficiencies with existing electrical systems will also be addressed. Roof

Existing mechanical equipment and raceway at roof with reroofing scope will need to be removed to make way for installation of the new roof. Line voltage connections to the equipment on the roof will need to be pulled back below the roof and reterminated at the completion of the work. Safety disconnects and maintenance receptacles will also need to be removed and re-terminated after completion. Remove and reinstall any communications/audio equipment on roof. Provide new coper B-Line Dura-Block or equivalent rooftop conduit supports for reinstallation of raceways routing along roof. Interior Seismic Upgrades

The interior walls targeted for seismic upgrades have a few devices to be accounted for. The primary ones are switches, receptacles, magnetic door holds, telecom devices and similar. These devices will need to be removed during construction and re-installed. Existing fire alarm devices, security cameras and any surface raceways will need to be removed and re-installed concealed in wall.

At ceiling affected by seismic work there will be electrical boxes and raceway for both low voltage and line voltage wiring that will need to be removed and re-installed. Existing exit signs, fire alarm devices and occupancy sensors will need to be removed and re-installed as required. Existing lens luminaires in the classrooms, corridor, gymnasium and other affected areas will need to be field verified as meeting ASCE 41-13 attachment requirements (safety lens clip). This is required for luminaires with heavy glass lenses that are a safety hazard in seismic events. Where luminaires are heavier than the capacity of the ceiling system, they will need to be independently braced to structural slab or to structural members.

Existing electrical distribution equipment will need to be field verified as being laterally braced to structure, and where this is not the case, new bracing will be provided.

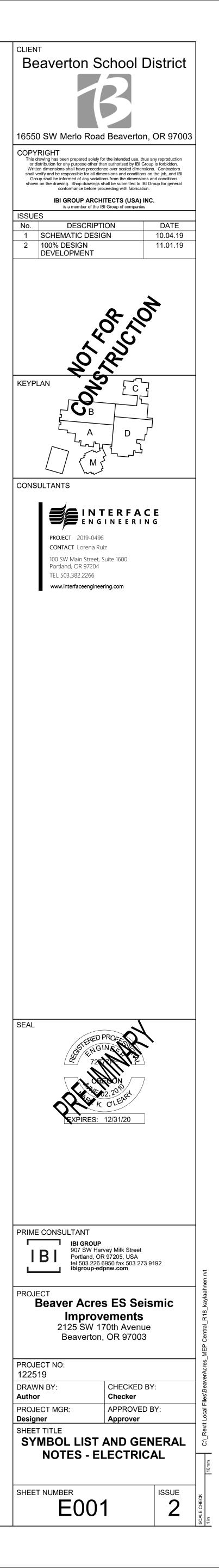
### FIRE ALARM NARRATIVE

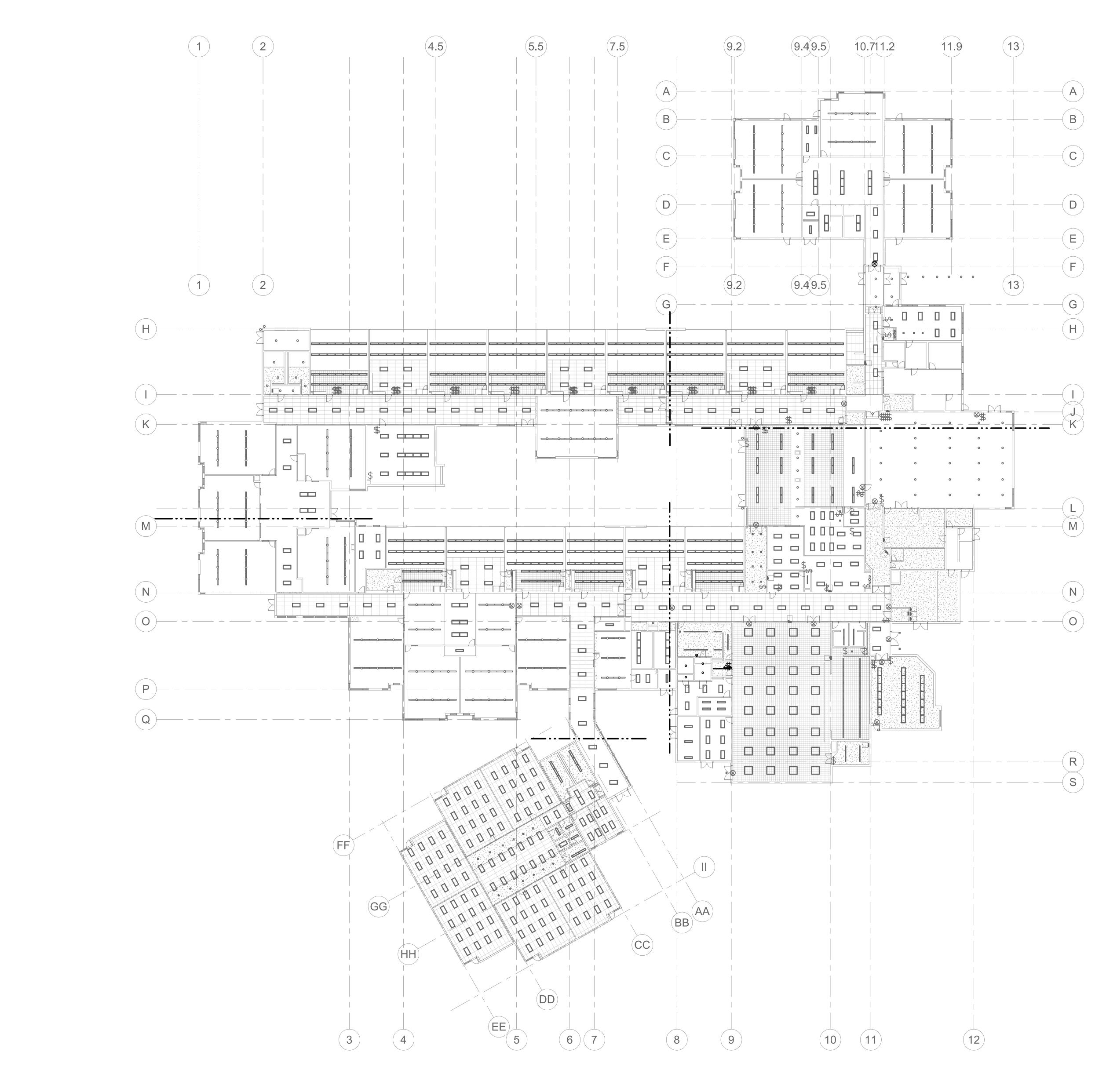
Electronic Safety Articles, fixtures, and equipment of a kind to be standard product of one manufacture, including but not limited to panels, devices and equipment unless otherwise specified in individual Division 28, Electronic Safety Sections. Base contract upon furnishing materials as specified. Materials, equipment, and fixtures used for construction are to be new, latest products as listed in manufacturer's printed catalog data and are to be UL or FM approved or have adequate approval or be acceptable by state, county, and city authorities.

Fire Detection and Alarm Provide modification and extension of the existing fire alarm system to accommodate the seismic upgrade of the building. Modify and relocate devices and appliances as needed for new seismic structure being added to building. In addition, provide design for the fire alarm system as required in Contract Documents. These are Contractor designed systems. Contact AHJ prior to bid to verify systems' requirements. Design systems in compliance with Beaverton School District Technical Standards and with code as interpreted by the AHJ.

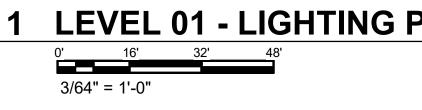
	SHEET INDEX
E001	SYMBOL LIST AND GENERAL NOTES - ELECTRICAL
ED101	LEVEL 01 - DEMOLITION PLAN - LIGHTING
ED101A	LEVEL 01 - DEMOLITION PLAN - SECTOR A - LIGHTING
ED101B	LEVEL 01 - DEMOLITION PLAN - SECTOR B - LIGHTING
ED101C	LEVEL 01 - DEMOLITION PLAN - SECTOR C - LIGHTING
ED101D	LEVEL 01 - DEMOLITION PLAN - SECTOR D - LIGHTING
ED101M	LEVEL 01 - DEMOLITION PLAN - SECTOR M - LIGHTING
E101	REFLECTED CEILING PLAN - LEVEL 01 - OVERALL - LIGHTING
E101A	REFLECTED CEILING PLAN - LEVEL 01 - SECTOR A - LIGHTING
E101B	REFLECTED CEILING PLAN - LEVEL 01 - SECTOR B - LIGHTING
E101C	REFLECTED CEILING PLAN - LEVEL 01 - SECTOR C - LIGHTING
E101D	REFLECTED CEILING PLAN - LEVEL 01 - SECTOR D - LIGHTING
E101M	REFLECTED CEILING PLAN - LEVEL 01 - SECTOR M - LIGHTING
ED201	LEVEL 01 - DEMOLITION PLAN - ELECTRICAL
ED201A	LEVEL 01 - DEMOLTION PLAN - SECTOR A - ELECTRICAL
ED201B	LEVEL 01 - DEMOLITION PLAN - SECTOR B - ELECTRICAL
ED201C	LEVEL 01 - DEMOLITION PLAN - SECTOR C - ELECTRICAL
ED201D	LEVEL 01 - DEMOLITION PLAN - SECTOR D - ELECTRICAL
ED201M	LEVEL 01 - DEMOLITION PLAN - SECTOR M - ELECTRICAL
E201	FLOOR PLAN - LEVEL 01 - OVERALL - ELECTRICAL
E201A	FLOOR PLAN - LEVEL 01 - SECTOR A - ELECTRICAL
E201B	FLOOR PLAN - LEVEL 01 - SECTOR B - ELECTRICAL
E201C	FLOOR PLAN - LEVEL 01 - SECTOR C - ELECTRICAL
E201D	FLOOR PLAN - LEVEL 01 - SECTOR D - ELECTRICAL
E201M	FLOOR PLAN - LEVEL 01 - SECTOR M - ELECTRICAL
E301	ROOF PLAN - OVEREALL - ELECTRICAL

E301 ROOF PLAN - OVEREALL - ELECTRICAL

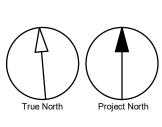


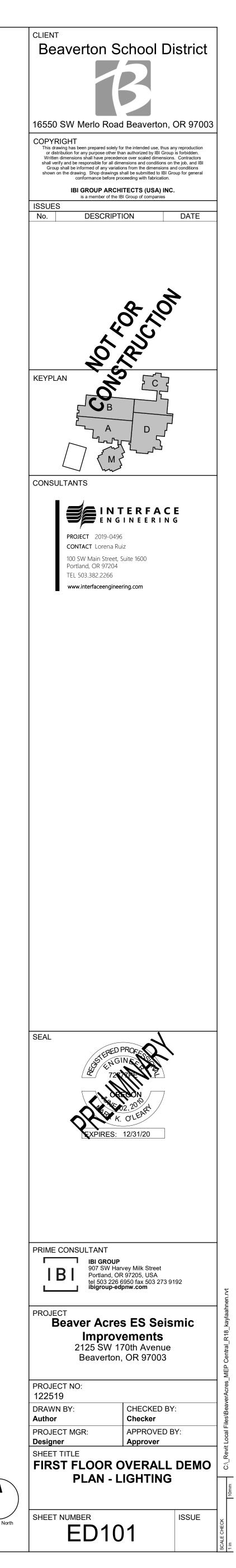


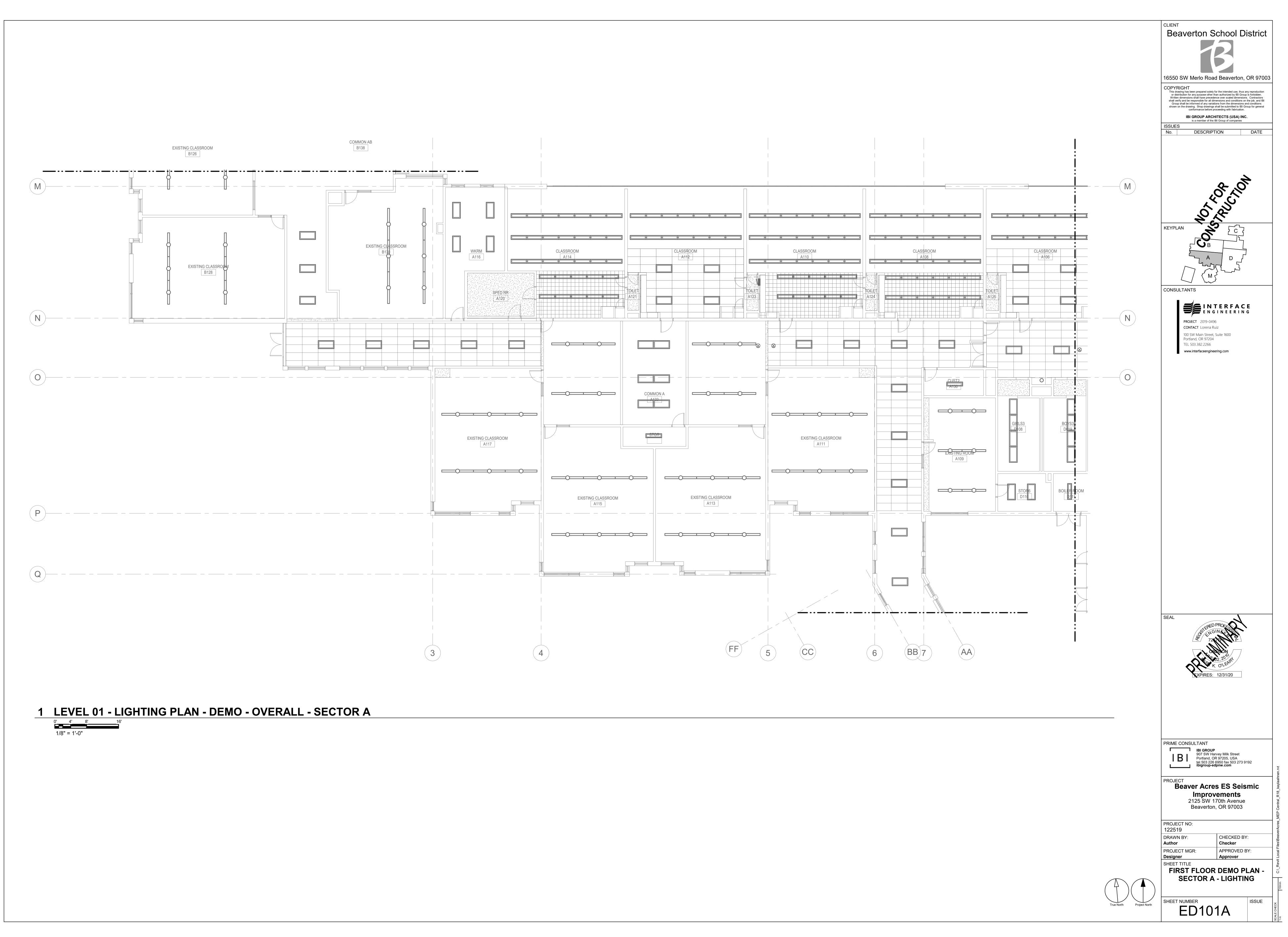




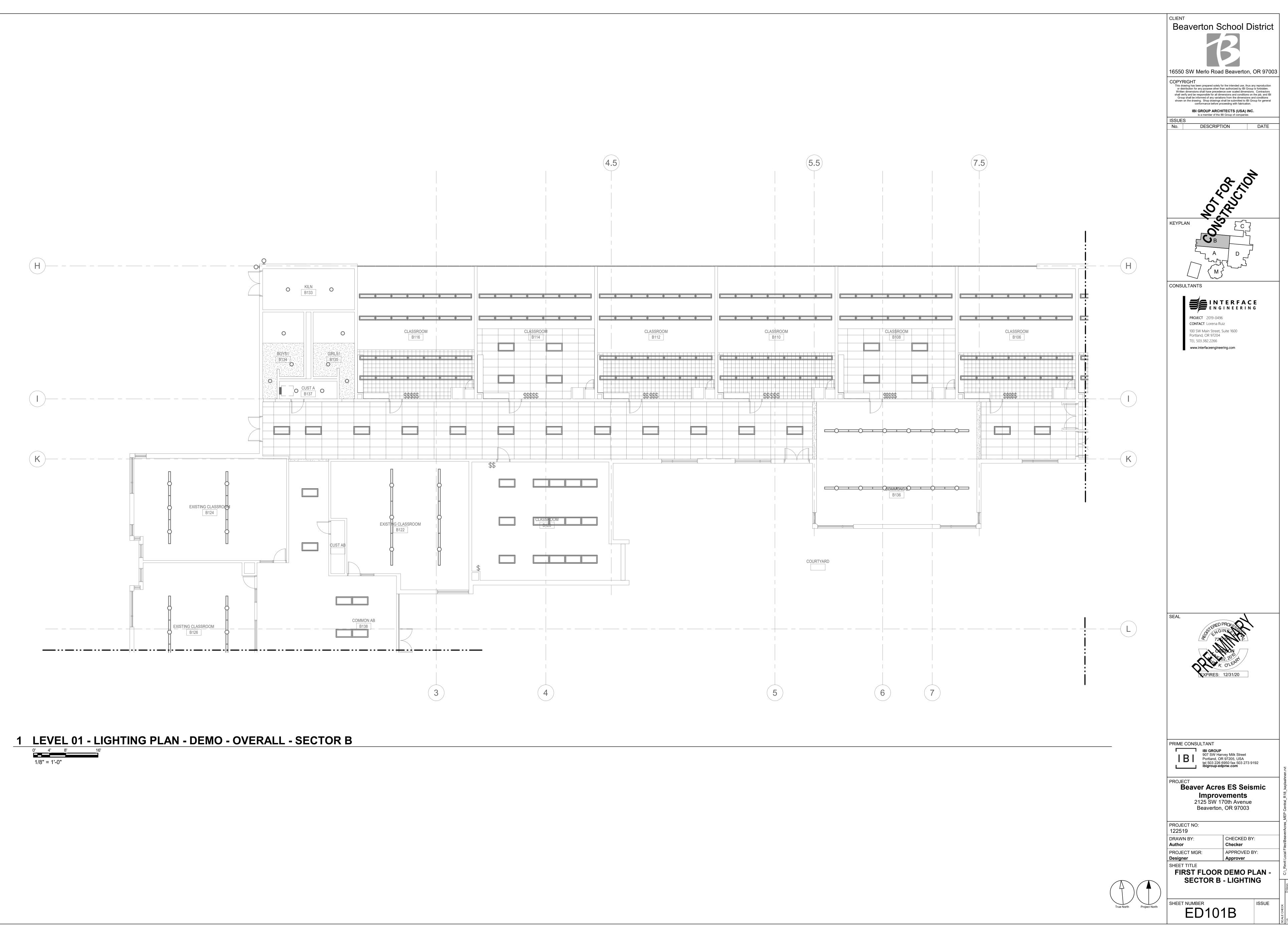
LEVEL 01 - LIGHTING PLAN - DEMO - OVERALL - OVERALL

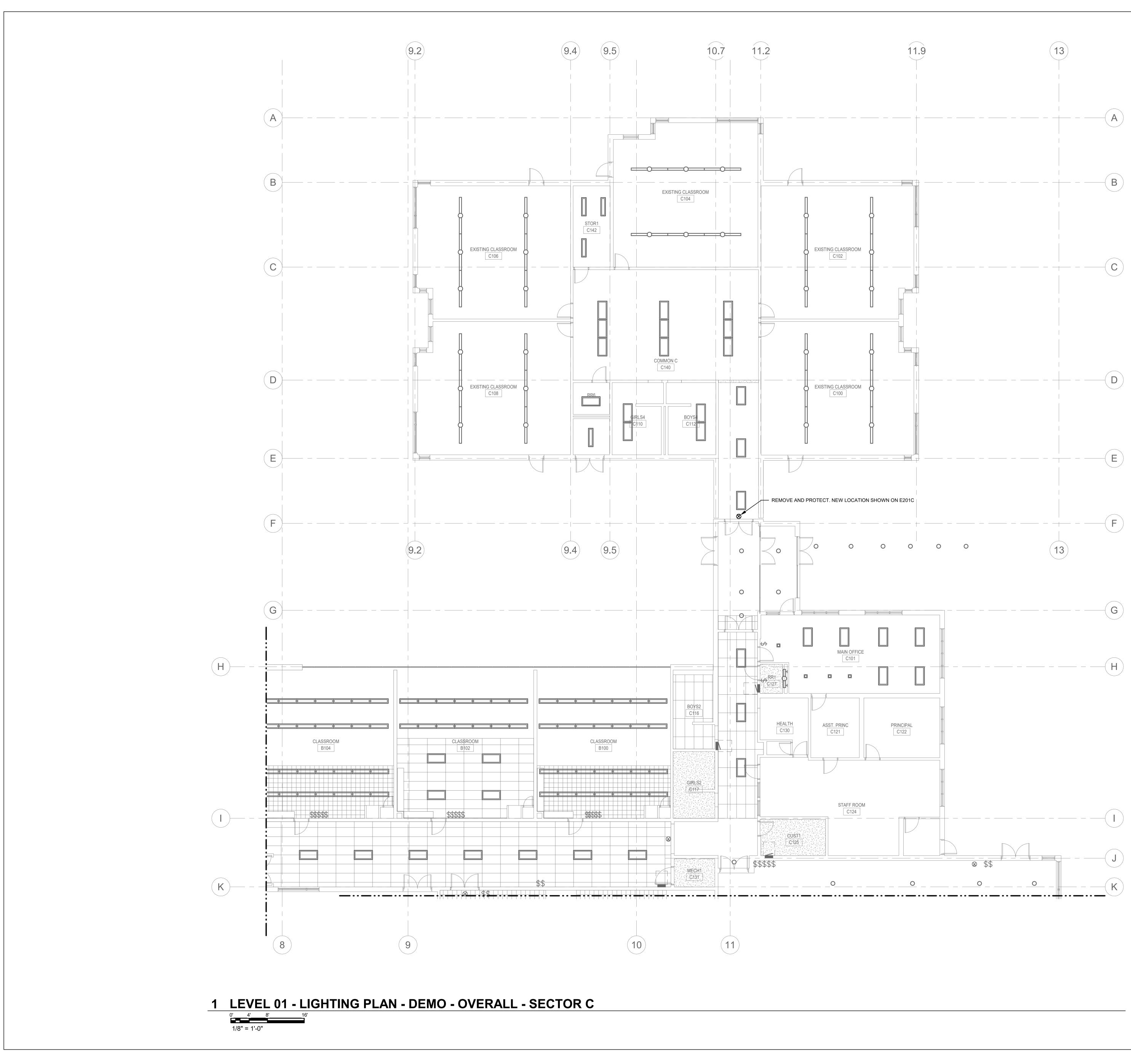


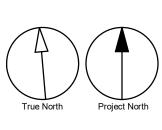


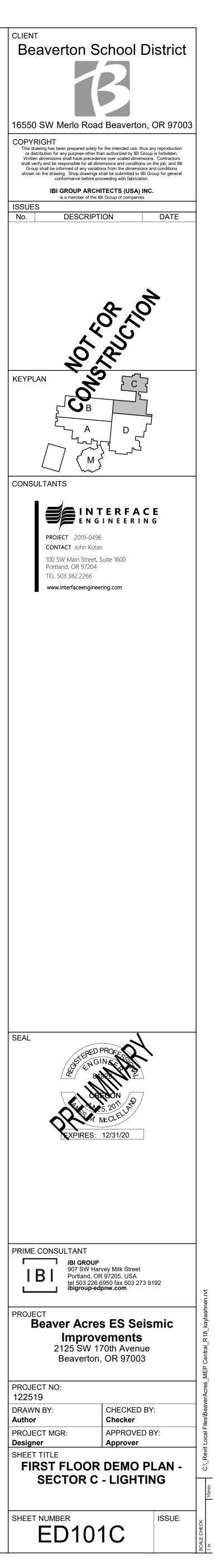


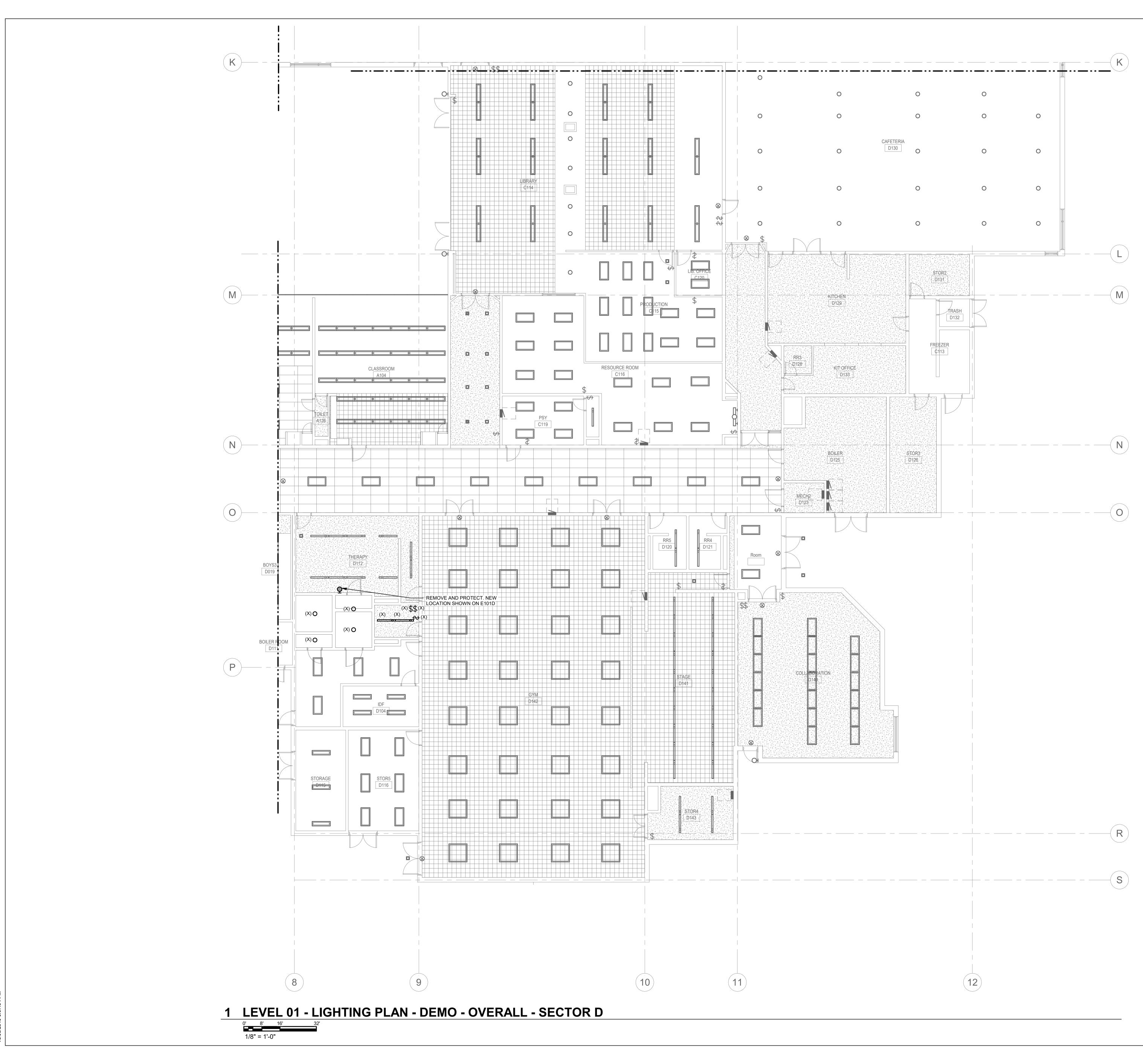
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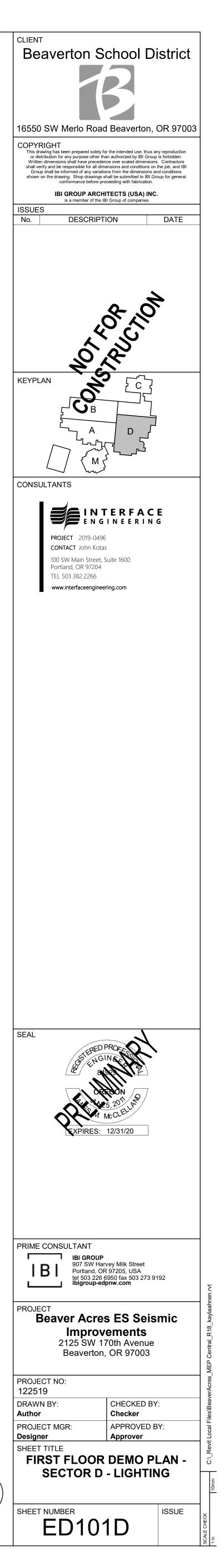


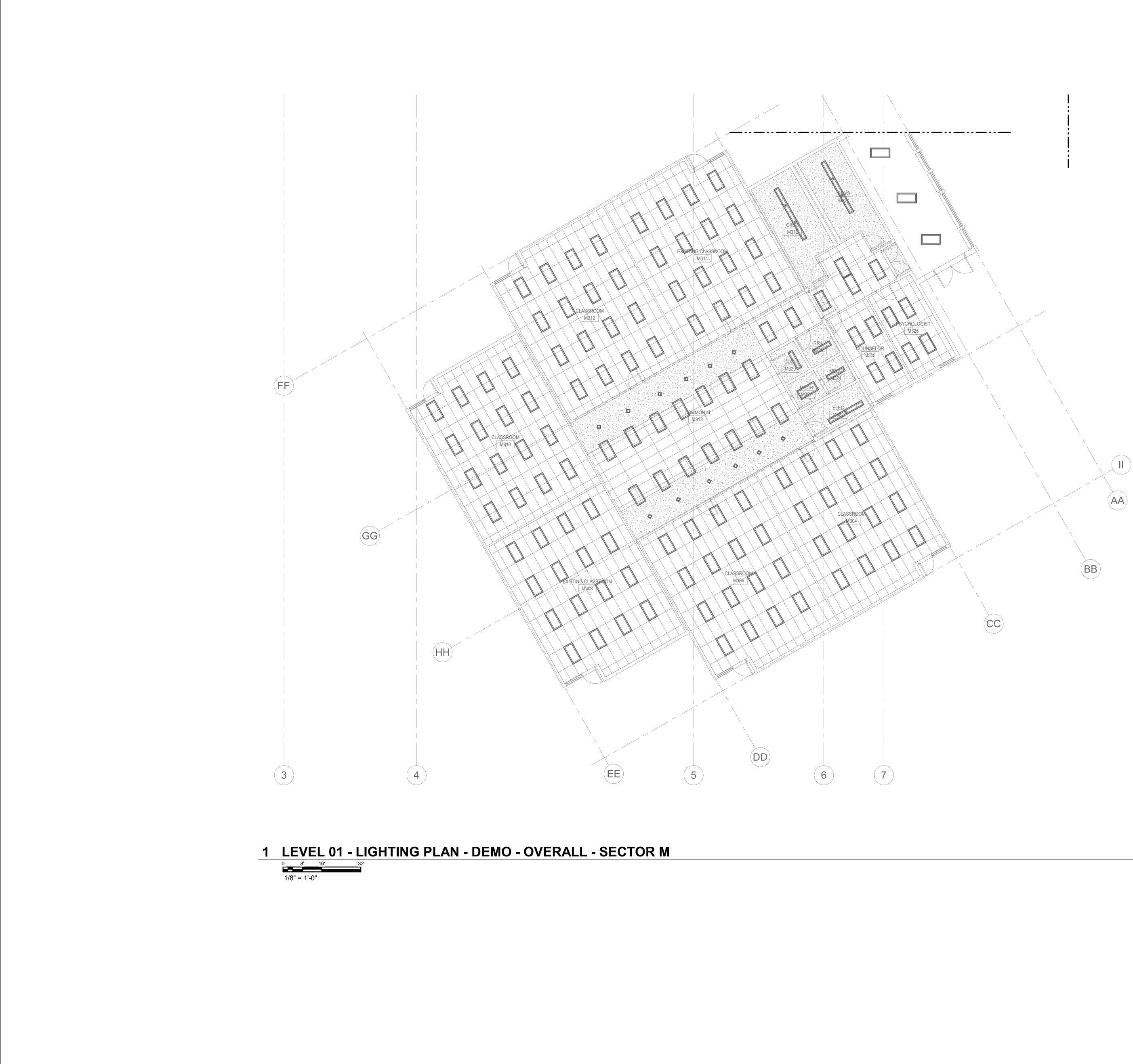


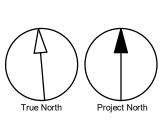


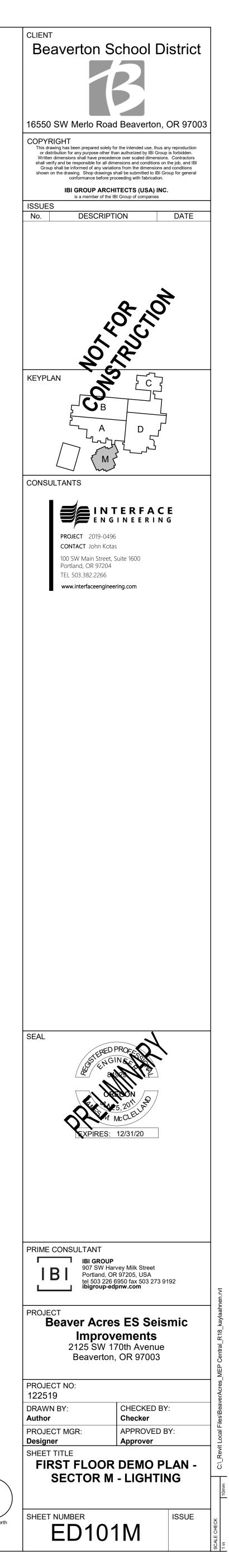


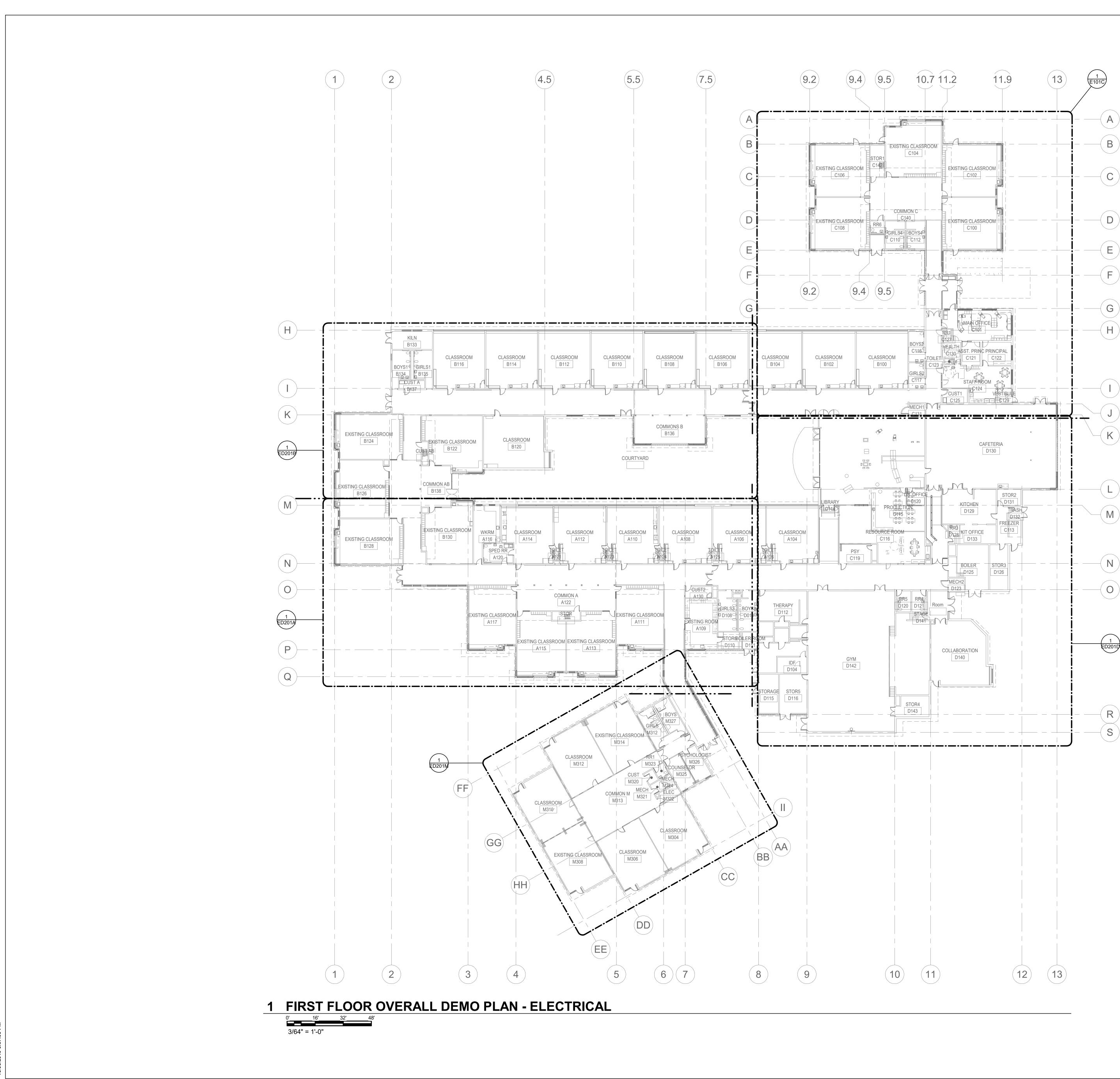


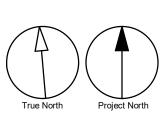


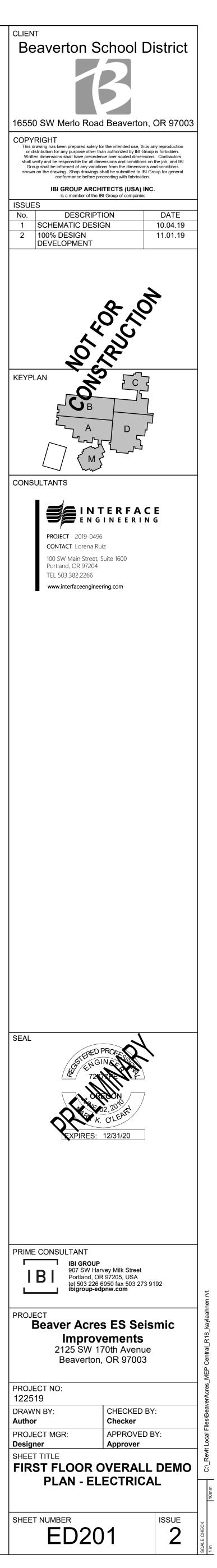


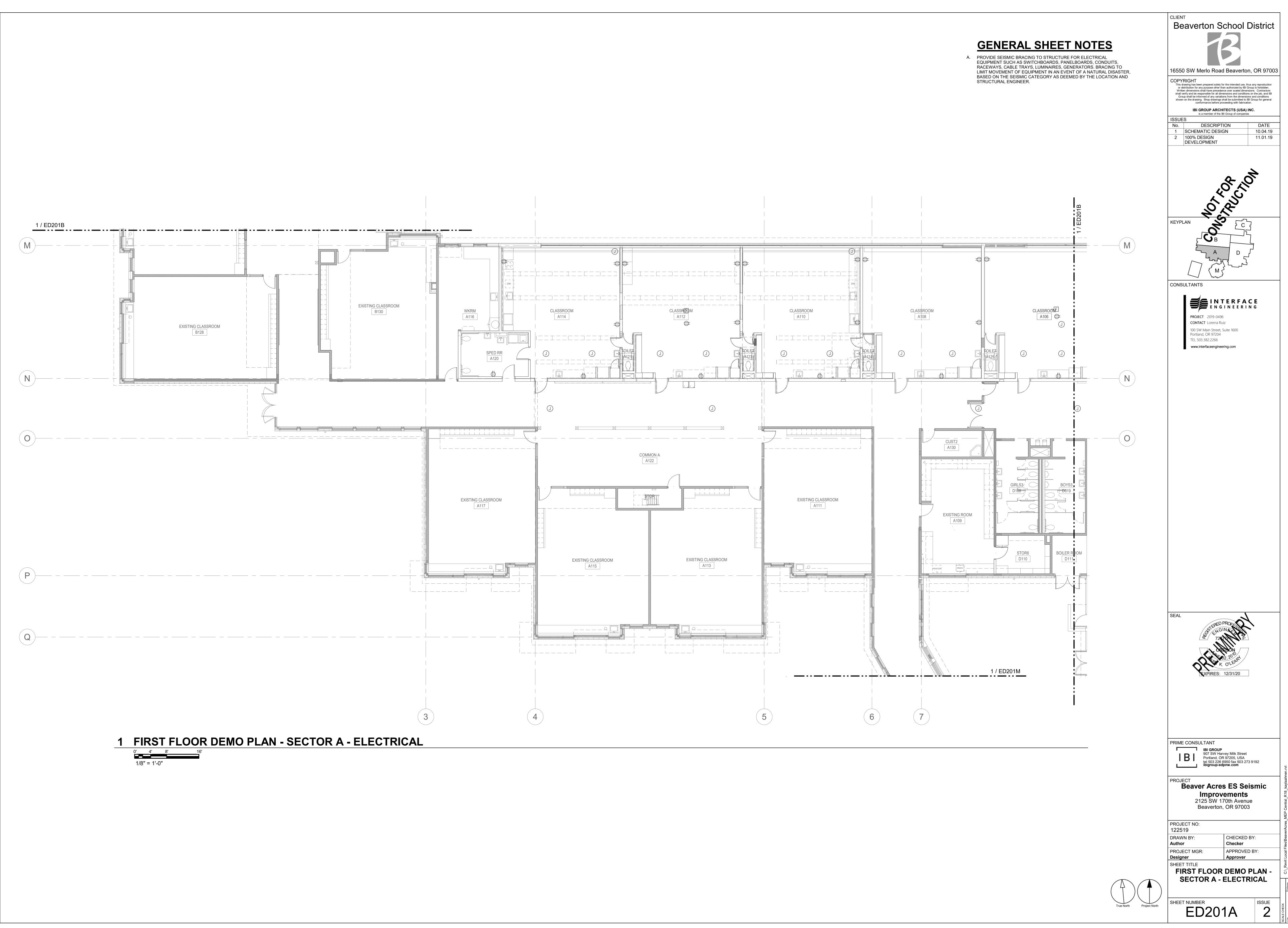


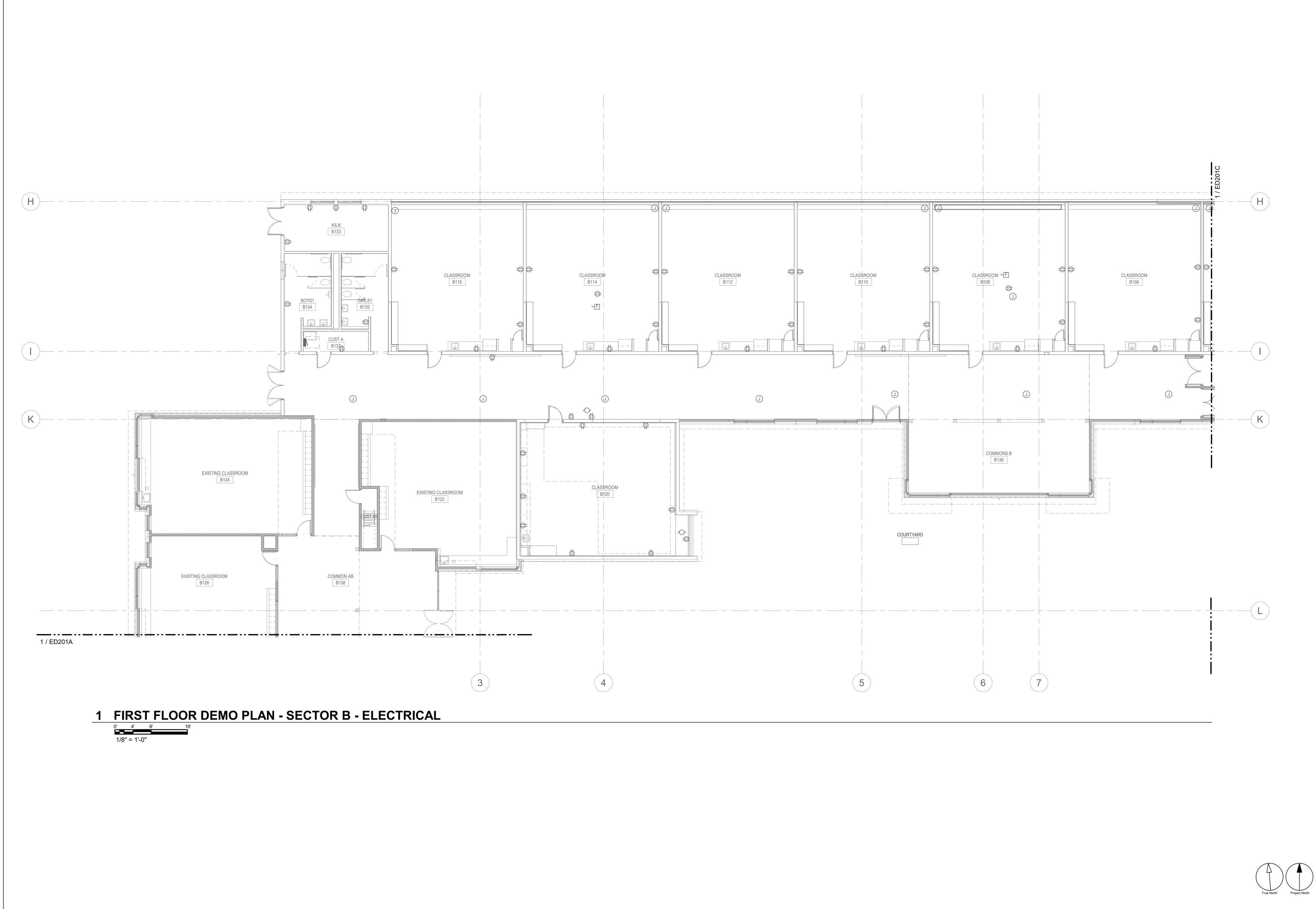




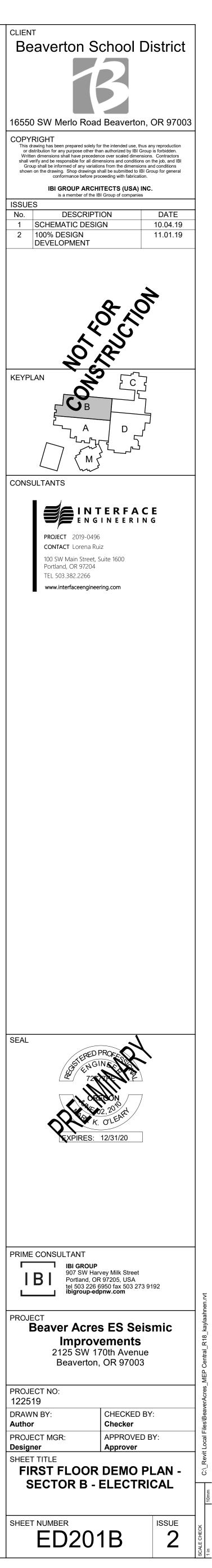






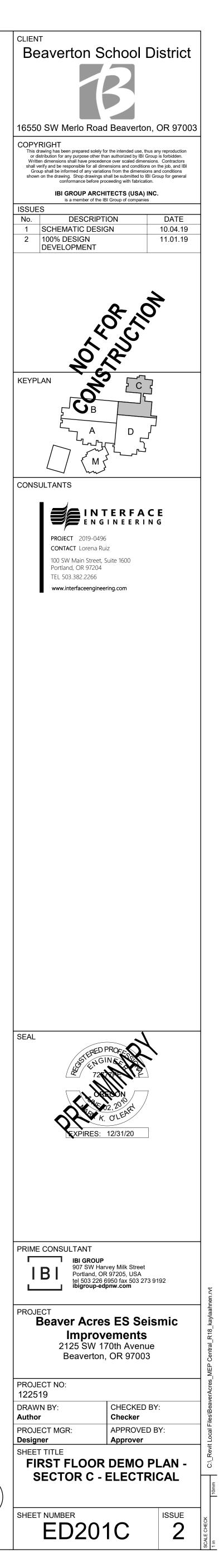


A. PROVIDE SEISMIC BRACING TO STRUCTURE FOR ELECTRICAL EQUIPMENT SUCH AS SWITCHBOARDS, PANELBOARDS, CONDUITS, RACEWAYS, CABLE TRAYS, LUMINAIRES, GENERATORS. BRACING TO LIMIT MOVEMENT OF EQUIPMENT IN AN EVENT OF A NATURAL DISASTER, BASED ON THE SEISMIC CATEGORY AS DEEMED BY THE LOCATION AND STRUCTURAL ENGINEER.

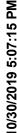




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GG

FF

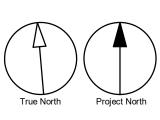


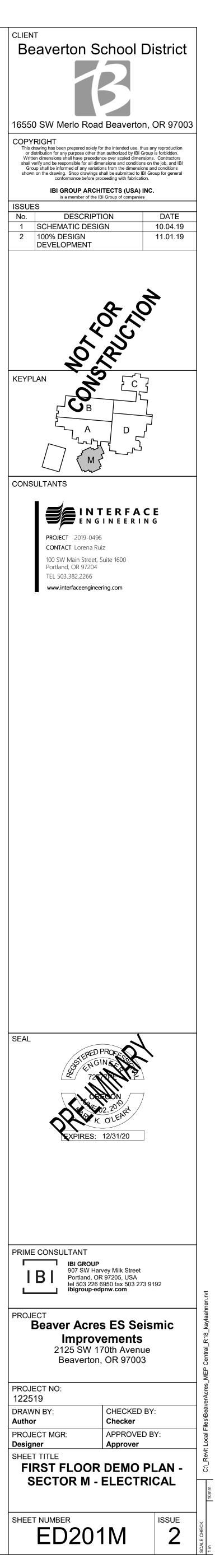
# 1 FIRST FLOOR DEMO PLAN - SECTOR M - ELECTRICAL

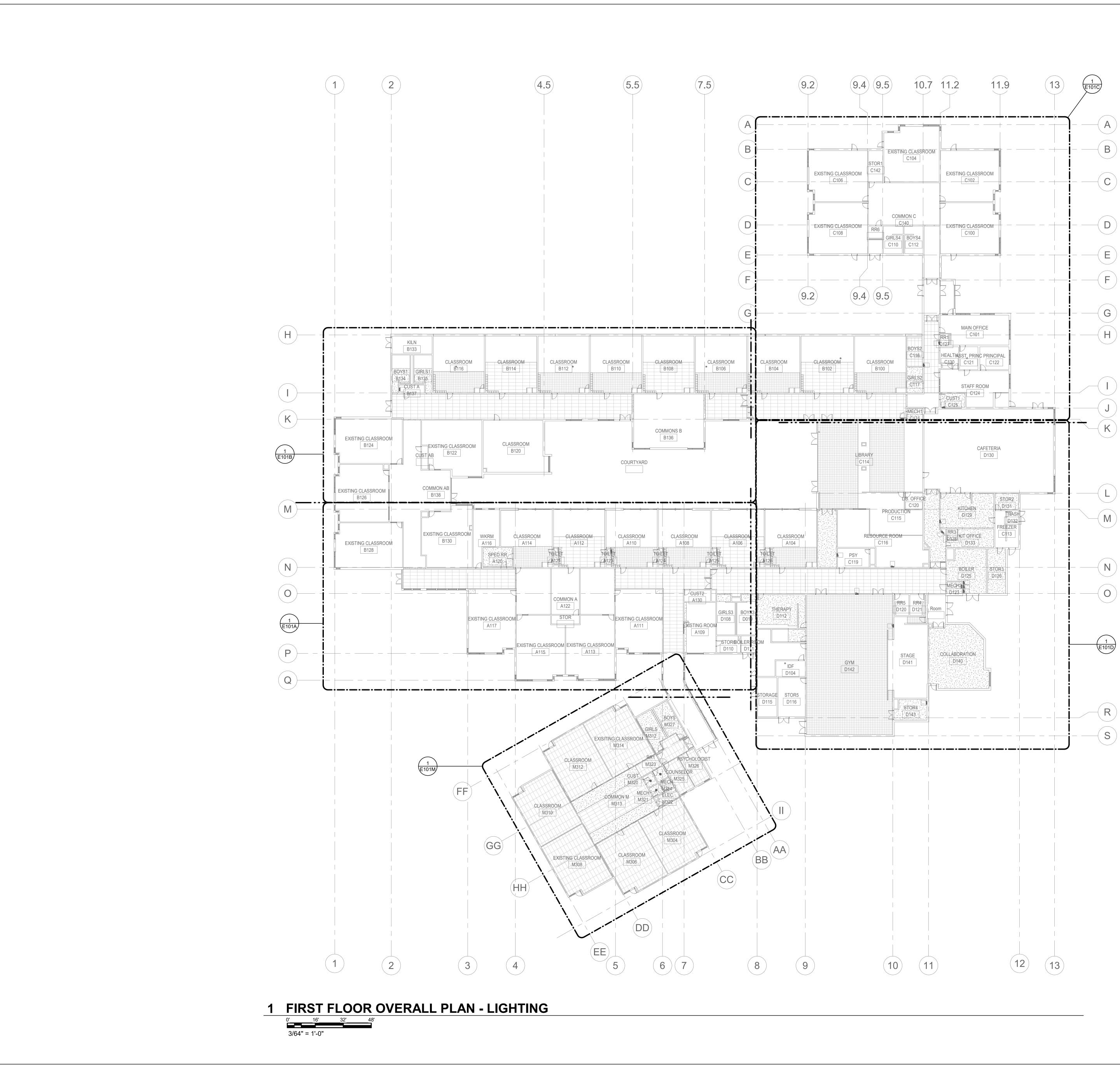
0' 4' 8' 16' 1/8" = 1'-0"

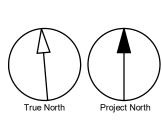
## **GENERAL SHEET NOTES**

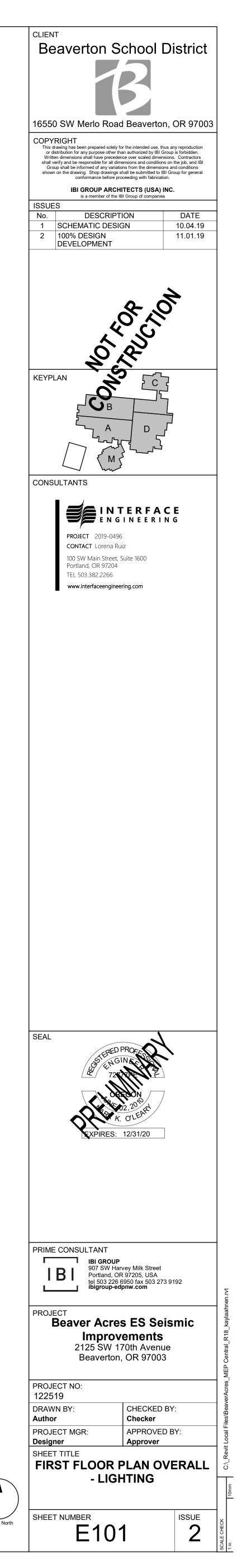
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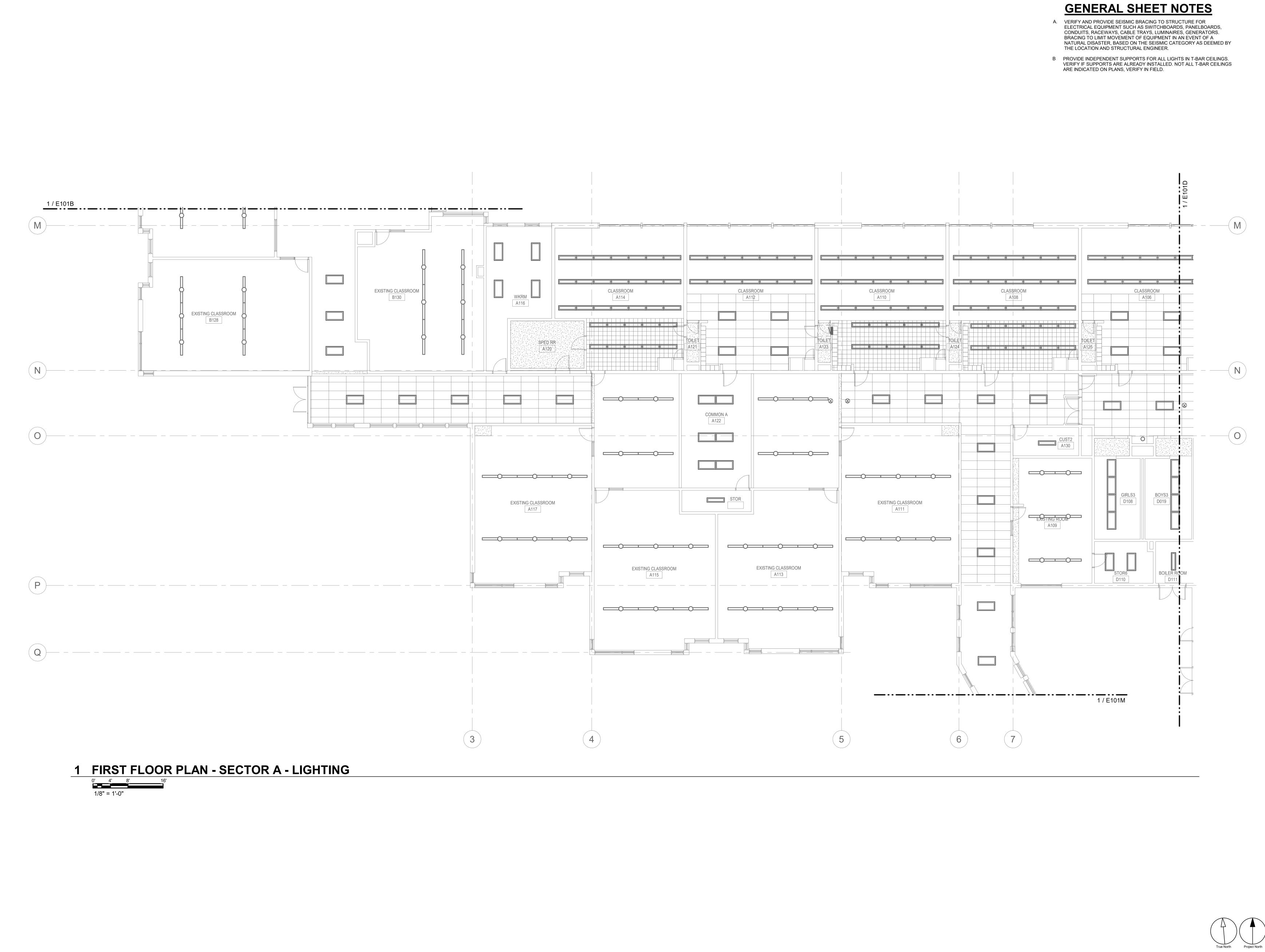


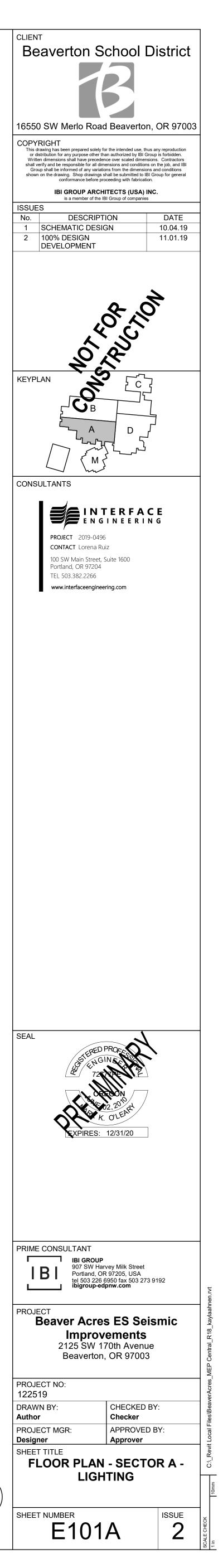


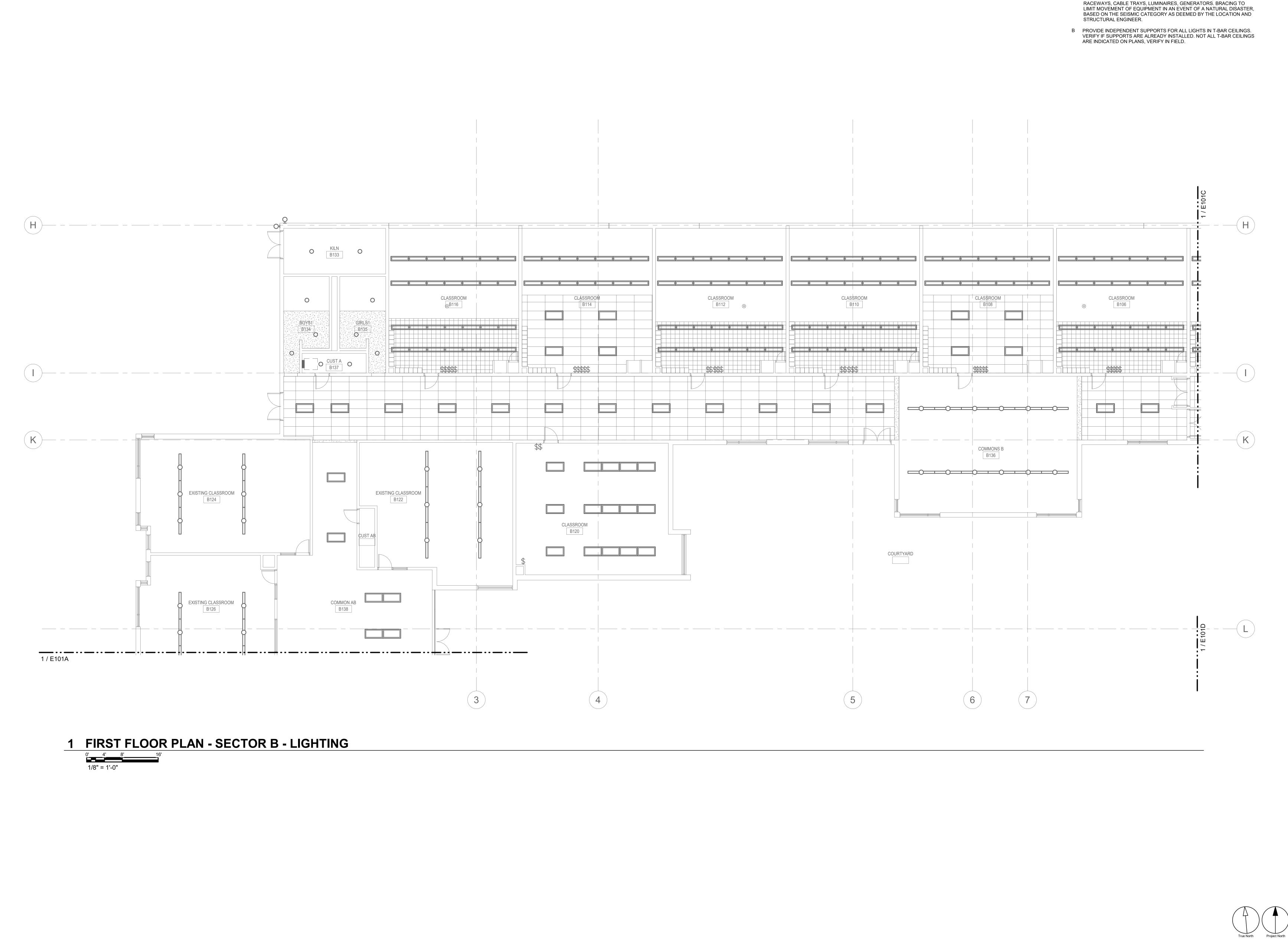




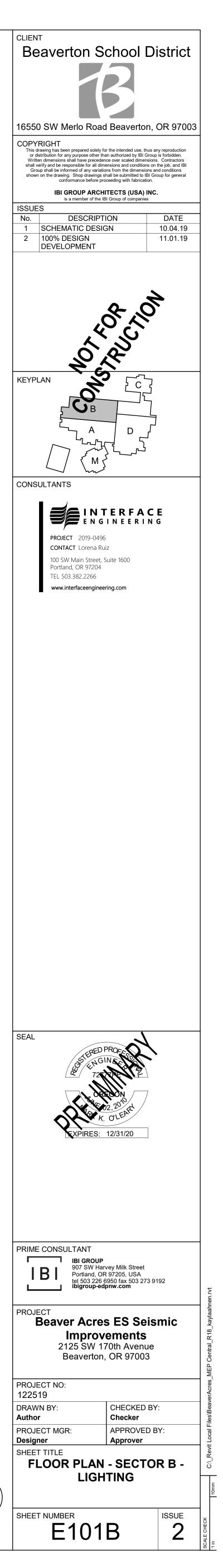


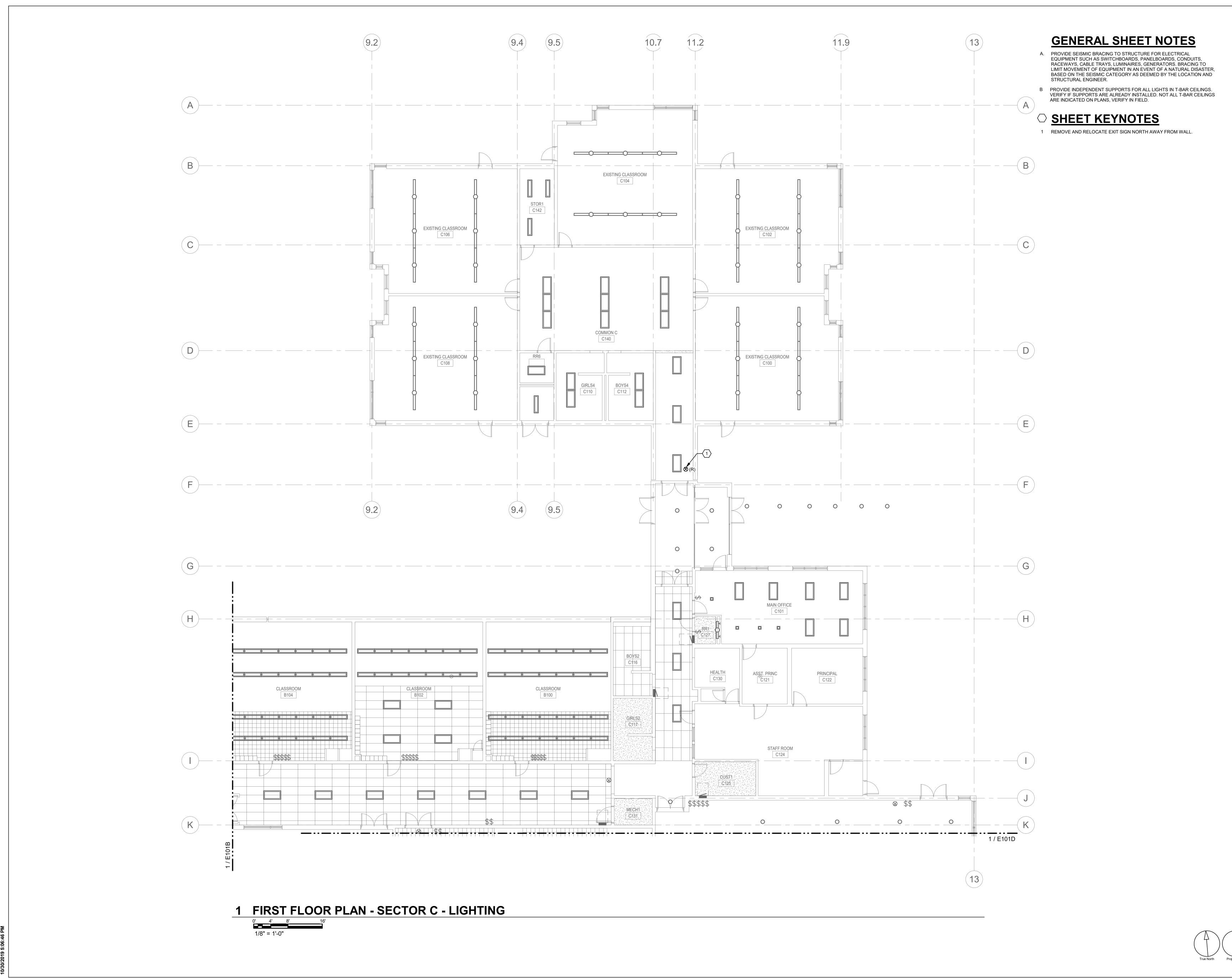




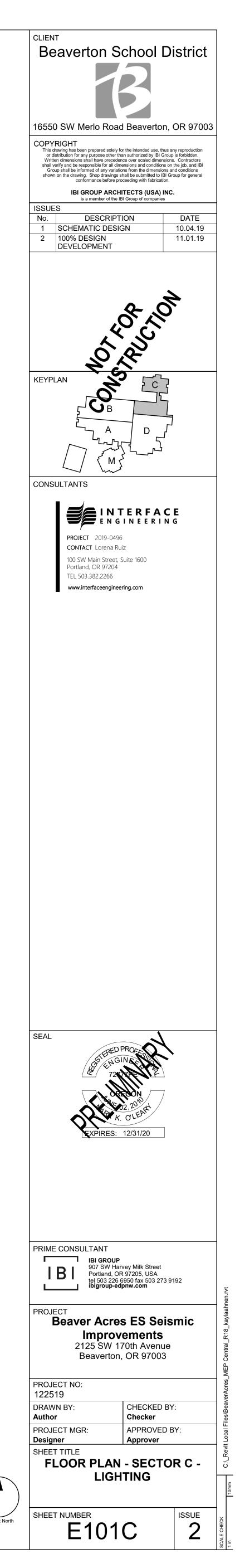


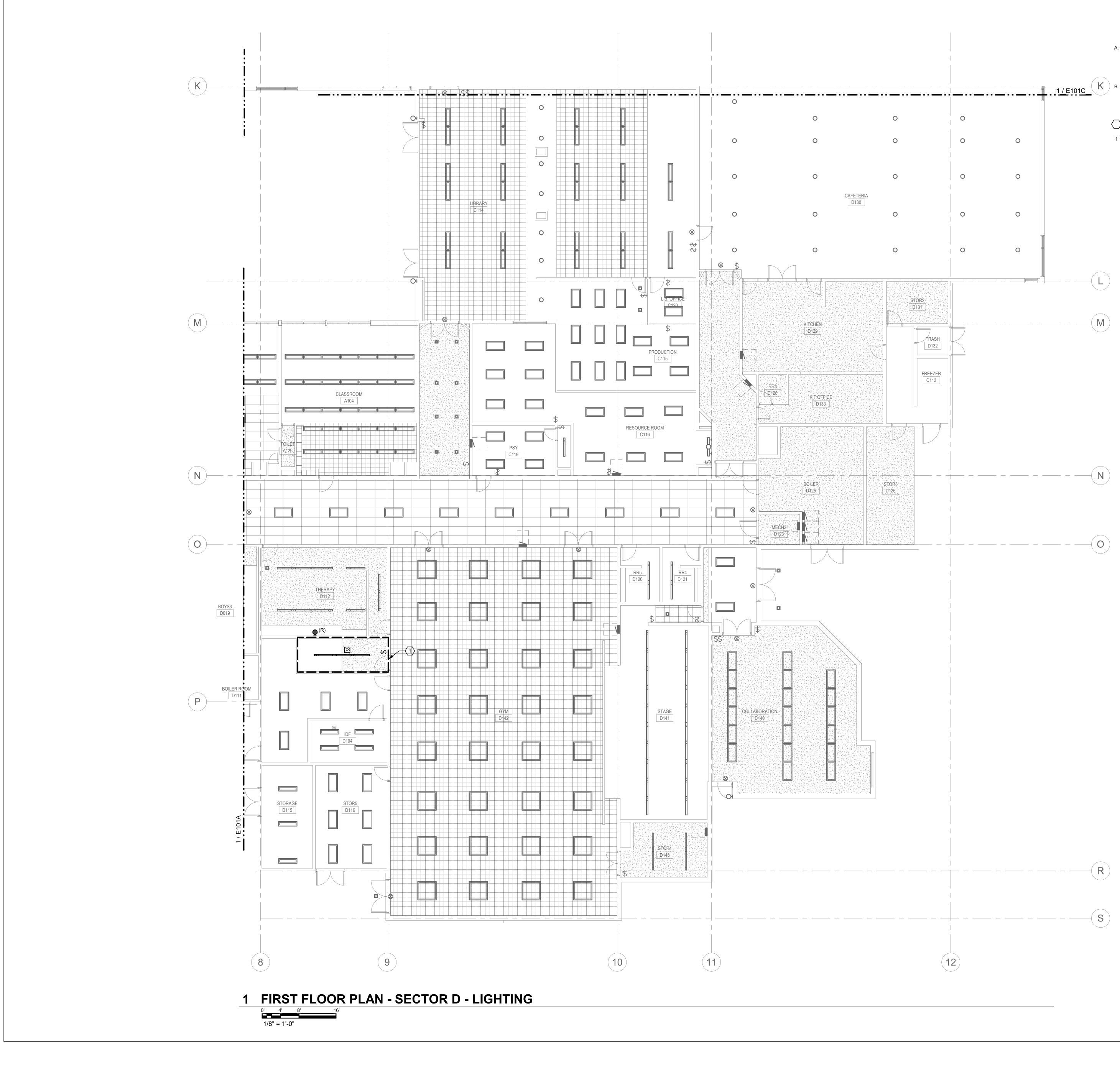
- A. PROVIDE SEISMIC BRACING TO STRUCTURE FOR ELECTRICAL EQUIPMENT SUCH AS SWITCHBOARDS, PANELBOARDS, CONDUITS,





Project North



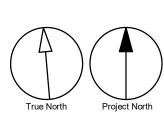


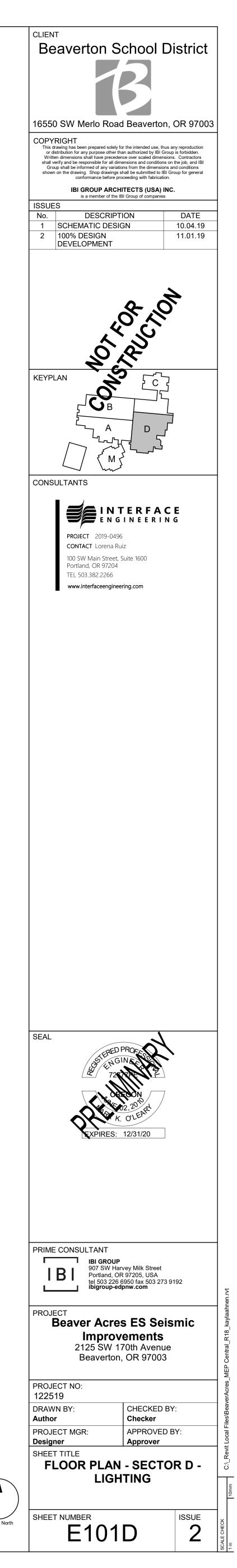
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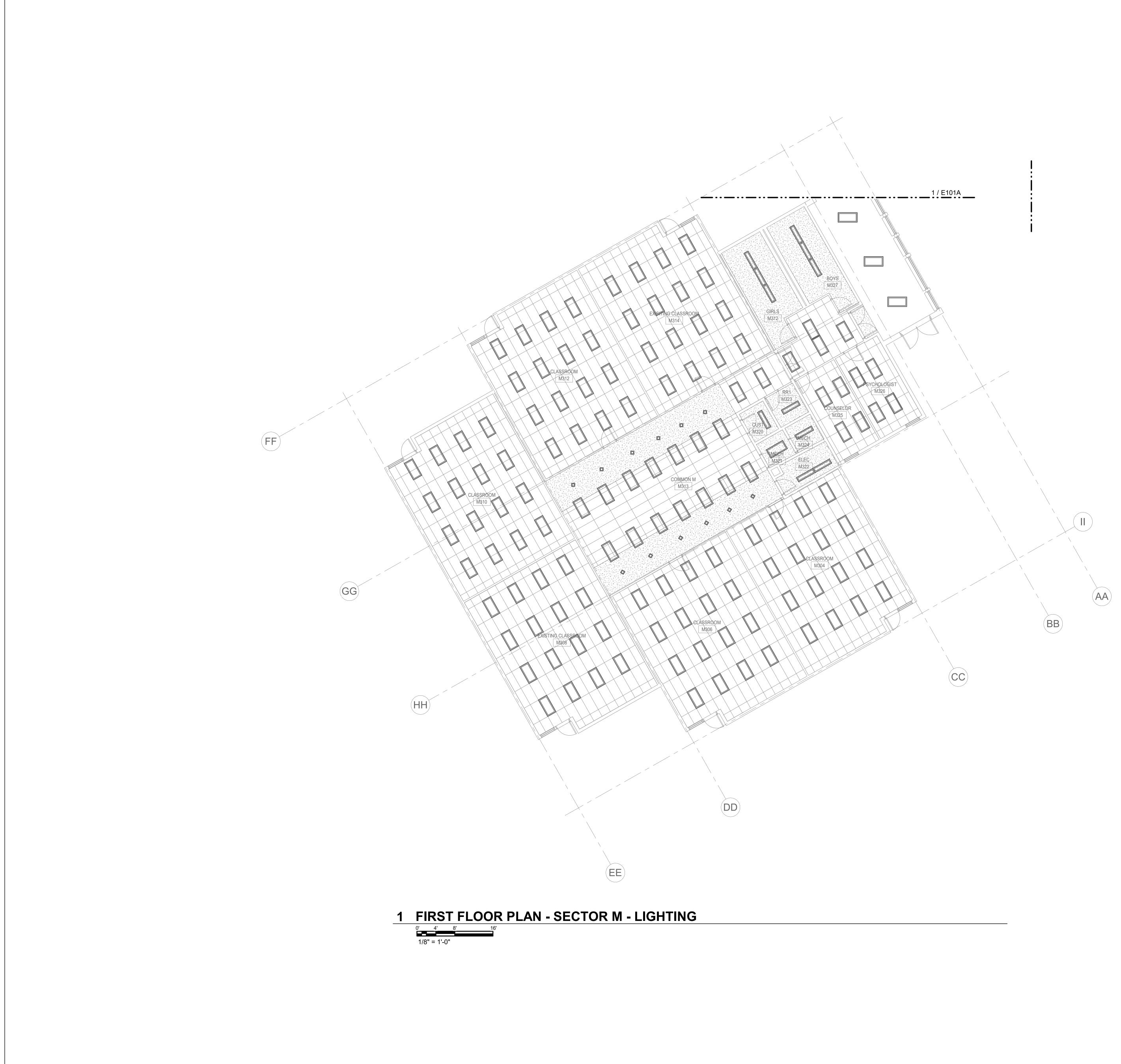
PROVIDE INDEPENDENT SUPPORTS FOR ALL LIGHTS IN T-BAR CEILINGS. VERIFY IF SUPPORTS ARE ALREADY INSTALLED. NOT ALL T-BAR CEILINGS ARE INDICATED ON PLANS, VERIFY IN FIELD.

### ○ SHEET KEYNOTES

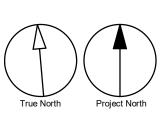
1 PROVIDE (3) CORELITE, JAYLUM - J3 SERIES SUSPENDED 1X4 DIRECT/INDIRECT LUMINAIRE AND A WALL SWITCH.

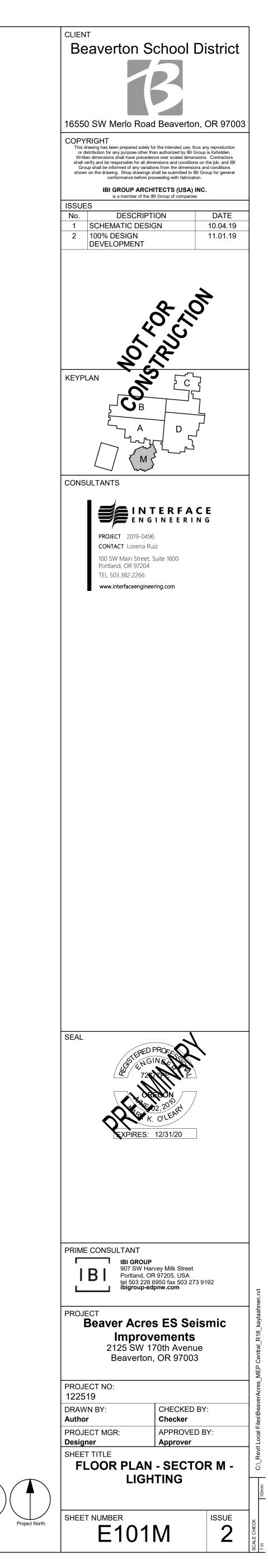


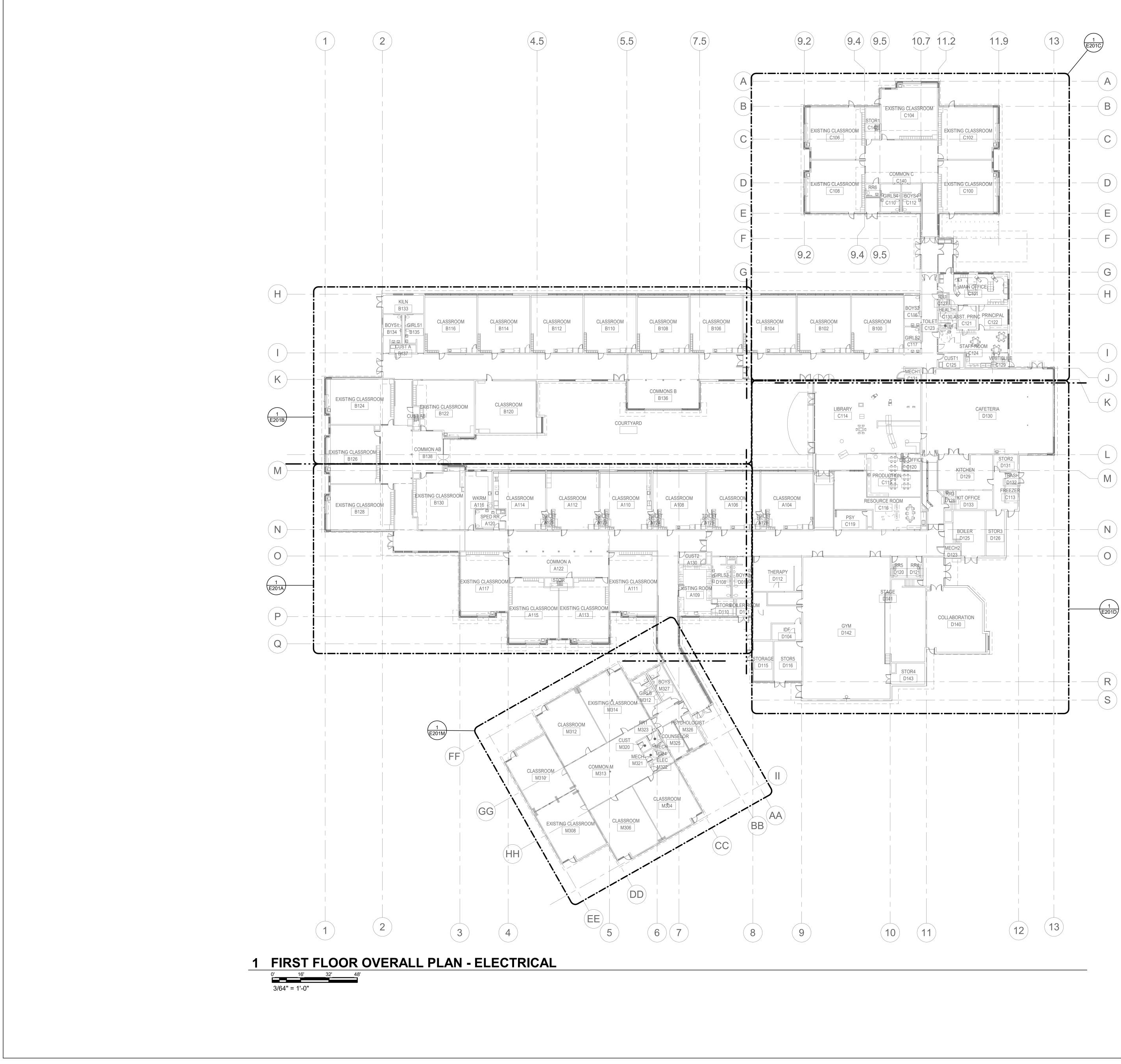


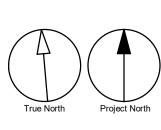


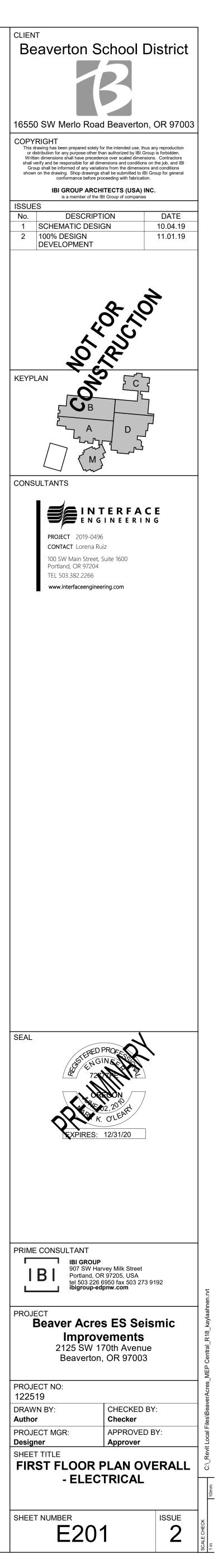
- A. PROVIDE SEISMIC BRACING TO STRUCTURE FOR ELECTRICAL EQUIPMENT SUCH AS SWITCHBOARDS, PANELBOARDS, CONDUITS, RACEWAYS, CABLE TRAYS, LUMINAIRES, GENERATORS. BRACING TO LIMIT MOVEMENT OF EQUIPMENT IN AN EVENT OF A NATURAL DISASTER, BASED ON THE SEISMIC CATEGORY AS DEEMED BY THE LOCATION AND STRUCTURAL ENGINEER.
- B PROVIDE INDEPENDENT SUPPORTS FOR ALL LIGHTS IN T-BAR CEILINGS. VERIFY IF SUPPORTS ARE ALREADY INSTALLED. NOT ALL T-BAR CEILINGS ARE INDICATED ON PLANS, VERIFY IN FIELD.

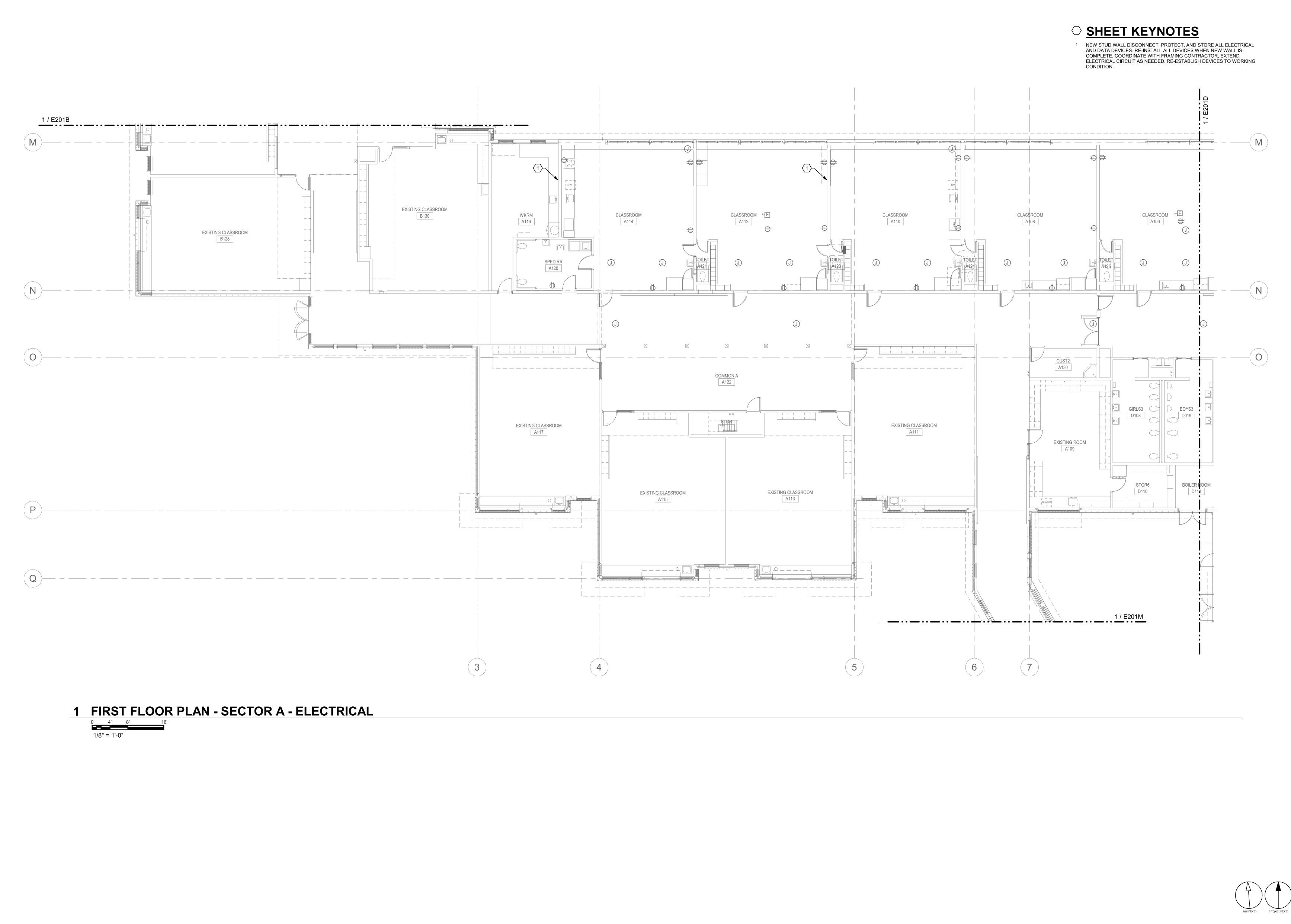




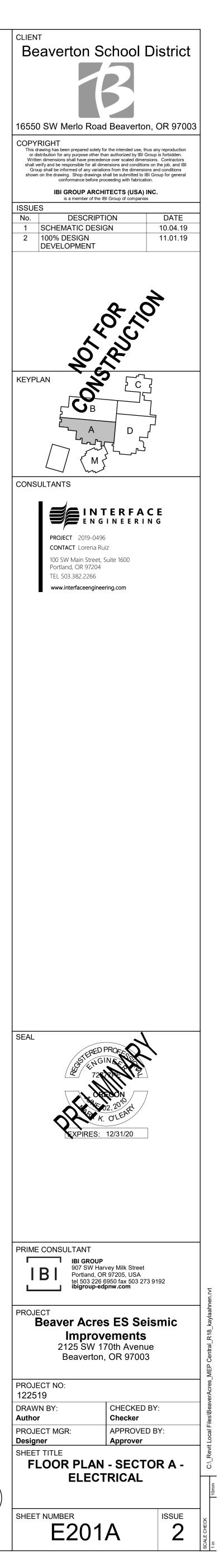






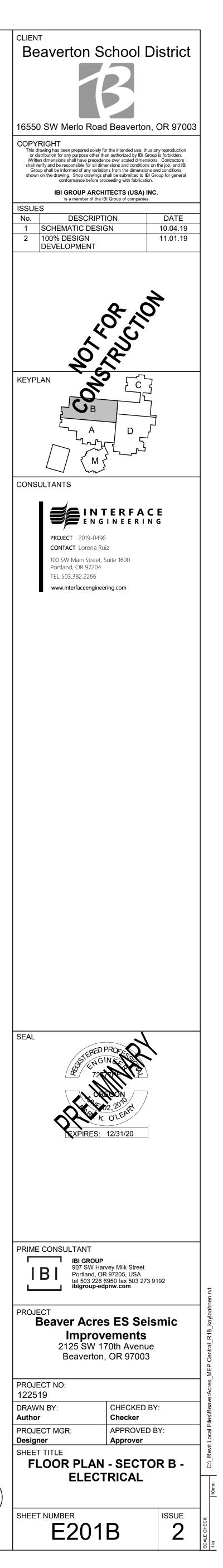


### **GENERAL SHEET NOTES** A. PROVIDE SEISMIC BRACING TO STRUCTURE FOR ELECTRICAL EQUIPMENT SUCH AS SWITCHBOARDS, PANELBOARDS, CONDUITS, RACEWAYS, CABLE TRAYS, LUMINAIRES, GENERATORS. BRACING TO LIMIT MOVEMENT OF EQUIPMENT IN AN EVENT OF A NATURAL DISASTER, BASED ON THE SEISMIC CATEGORY AS DEEMED BY THE LOCATION AND STRUCTURAL ENGINEER.



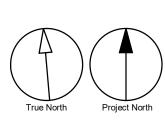


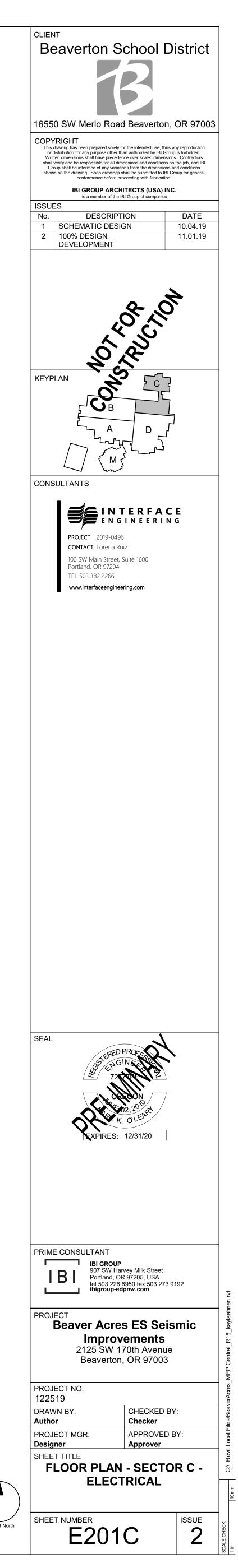
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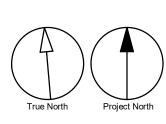


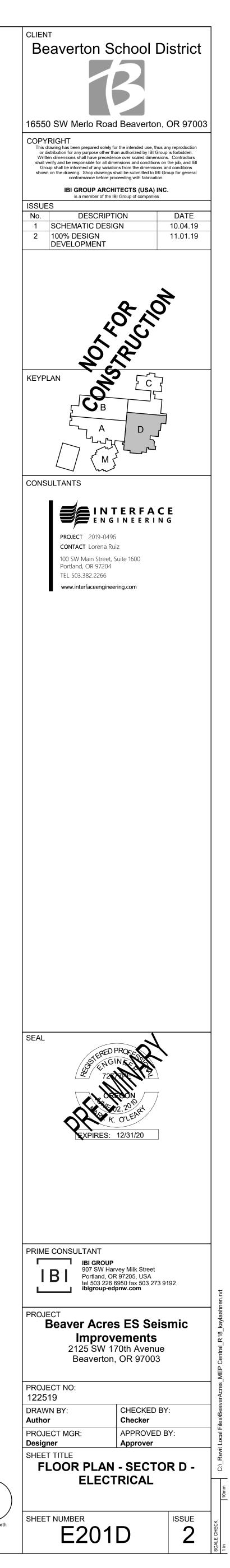


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### ○ <u>SHEET KEYNOTES</u>

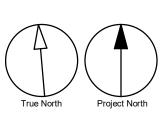
1 NEW STUD WALL DISCONNECT, PROTECT, AND STORE ALL ELECTRICAL AND DATA DEVICES. RE-INSTALL ALL DEVICES WHEN NEW WALL IS COMPLETE. COORDINATE WITH FRAMING CONTRACTOR, EXTEND ELECTRICAL CIRCUIT AS NEEDED. RE-ESTABLISH DEVICES TO WORKING CONDITION.

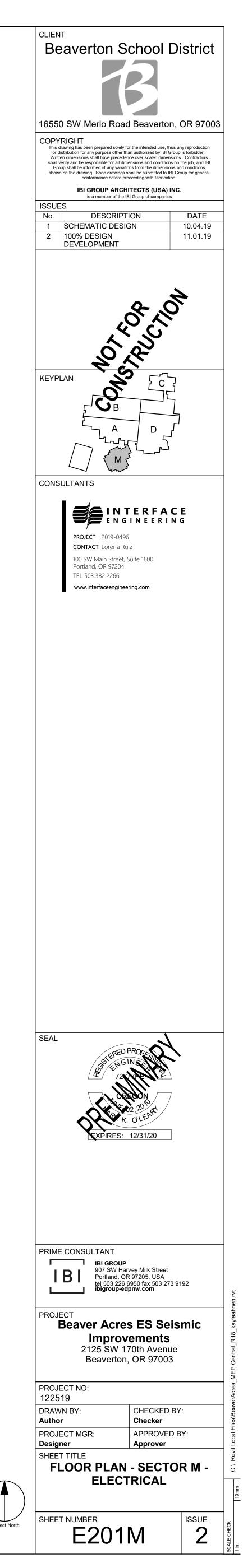


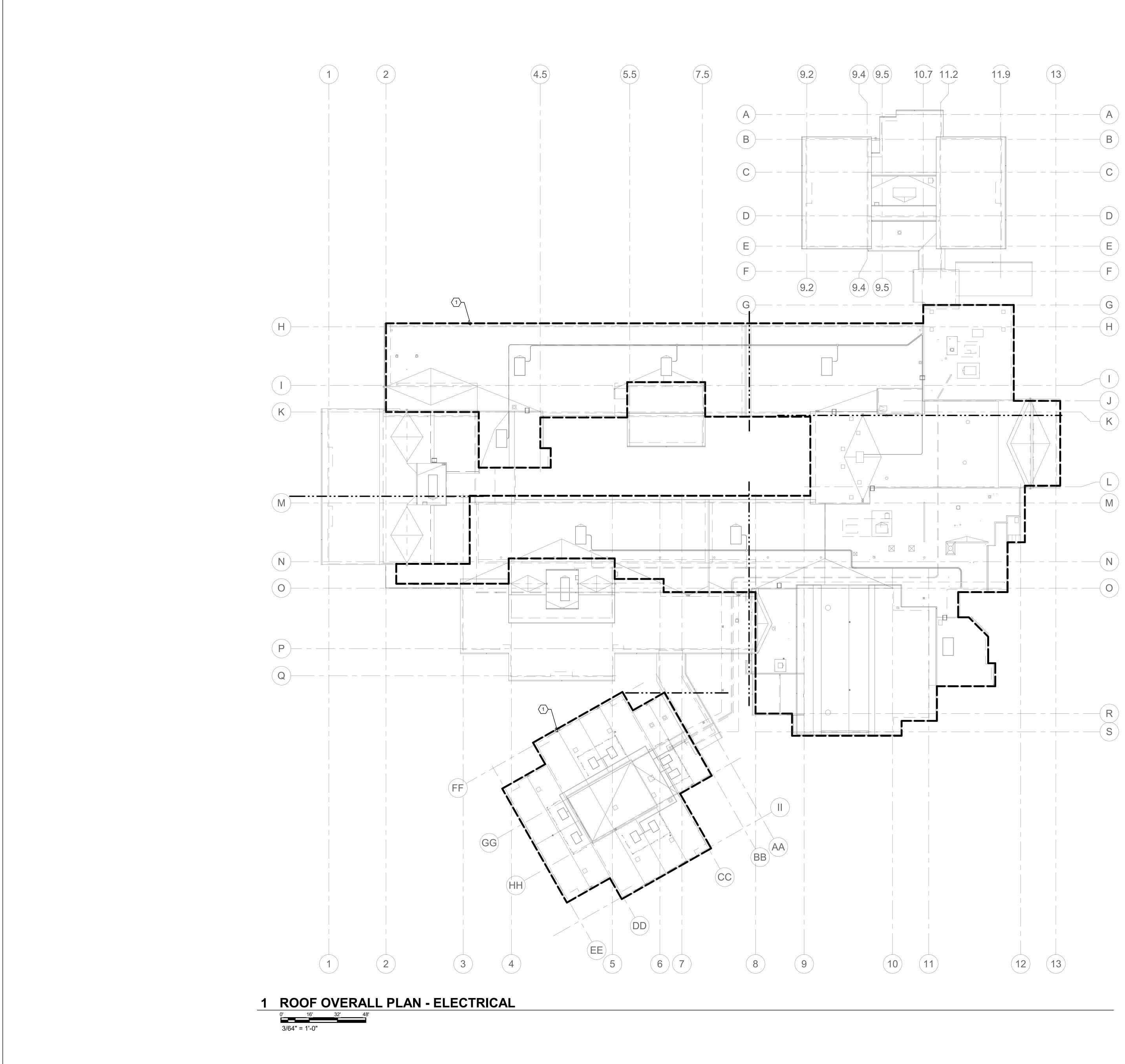




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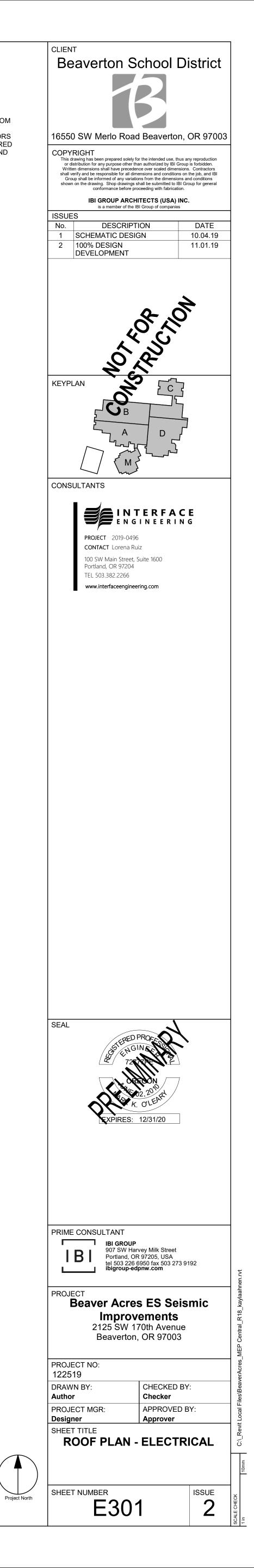






○ <u>SHEET KEYNOTES</u>

1 DISCONNECT EXISTING SAFETY DISCONNECT AND CONDUIT WIRE FROM MECHANICAL UNITS BEING REMOVED FOR RE-ROOFING. PULL CONDUCTORS BACK TO SOURCE. INVESTIGATE EXISTING CONDUCTORS TO SEE IF REPLACEMENT IS REQUIRED. IF CONDUCTORS ARE REQUIRED TO BE REPLACED PROVIDE NEW CONDUCTORS OF THE SAME SIZE AND QUANTITY. AFTER RE-ROOFING IS COMPLETE RECONNECT EXISTING CONDUIT WIRE TO MECHANICAL UNITS.



True North