

CODE REVIEW NOTES:

- 1.THIS CODE REVIEW IS BASED ON THE 2019 O.S.S.C.
2. THE SCOPE OF WORK FOR THIS PROJECT INCLUDES THE CONSTRUCTION OF
3. THE SCOPE OF THIS PROJECT ALSO INCLUDES
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 OF THE FIREWALL IS NEEDED.

LEGEND:

--- TWO HOUR FIRE WALL ASSEMBLY - 90 MINUTE RATED OPENINGS - ASSUMED PROPERTY LINE AT BUILDING EXTERIOR

ALLOWABLE AREA ANALYSIS:

BUILDING I - CLASSROOMS, MEDIA CENTER, CAFETERIA, GYMNASIUM

**SUMMARY:**  
BUILDING 'I' 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 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

**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:**  
1 STORY

**ALLOWABLE AREA:**  
9,500 SF PER TABLE 503

**AREA MODIFICATION:** (PER SECTION 506)

$$l = 100 \left[ \frac{F}{P} - 0.25 \right] \frac{W}{30} = 100 \left[ \frac{1118'}{1322'} - 0.25 \right] \frac{20}{30} = 39.31$$
$$l_a = 300 \text{ PERCENT (PER 506.3)}$$
$$A_a = A_t \left[ \frac{A_t}{100} \right] + \left[ \frac{A_t}{100} \right] = 9500 + \left[ \frac{(9,500)(39.91)}{100} \right] \left[ \frac{(9,500)(300)}{100} \right]$$
$$A_a = 9,500 + 3,734 + 28,500 = 41,734 \text{ SF}$$

**TOTAL ALLOWABLE AREA PER FLOOR:** 41,734 SF

**TOTAL ACTUAL AREA:**  
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 'II' 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:**  
1 STORY

**ALLOWABLE AREA:**  
9,500 SF PER TABLE 503

**AREA MODIFICATION:** (PER SECTION 506)

$$l = 100 \left[ \frac{F}{P} - 0.25 \right] \frac{W}{30} = 100 \left[ \frac{1115'}{1322'} - 0.25 \right] \frac{20}{30} = 39.16$$
$$l_a = 300 \text{ PERCENT (PER 506.3)}$$
$$A_a = A_t \left[ \frac{A_t}{100} \right] + \left[ \frac{A_t}{100} \right] = 9500 + \left[ \frac{(9,500)(39.16)}{100} \right] \left[ \frac{(9,500)(300)}{100} \right]$$
$$A_a = 9,500 + 3,720 + 28,500 = 41,720 \text{ SF}$$

**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)

BUILDING III - COVERED PLAY STRUCTURE

**SUMMARY:**  
BUILDING 'III' 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

**AREA MODIFICATION:** (PER SECTION 506)

$$l = 100 \left[ \frac{F}{P} - 0.25 \right] \frac{W}{30} = 100 \left[ \frac{700'}{700'} - 0.25 \right] \frac{20}{30} = 49.95$$
$$l_a = 100 \text{ PERCENT (PER 506.3)}$$
$$A_a = A_t \left[ \frac{A_t}{100} \right] + \left[ \frac{A_t}{100} \right] = 9500 + \left[ \frac{(9,500)(49.95)}{100} \right] \left[ \frac{(9,500)(100)}{100} \right]$$
$$A_a = 9,500 + 4,745 + 9,500 = 23,745 \text{ SF}$$

**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)

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ISSUES

No.	DESCRIPTION	DATE
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PROJECT

Beaver Acres ES Seismic Improvements  
2125 SW 17th Avenue  
Beaverton, OR 97003

PROJECT NO:

122519

DRAWN BY:

Author

CHECKED BY:

Checker

PROJECT MGR:

Designer

APPROVED BY:

Approver

SHEET TITLE

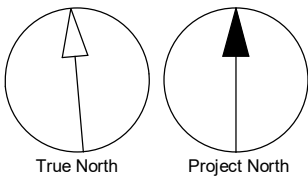
CODE ANALYSIS

SHEET NUMBER

AG1101

ISSUE

2





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PROJECT

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2125 SW 170th Avenue  
Beaverton, OR 97003

PROJECT NO: 122519	
DRAWN BY: Author	CHECKED BY: Checker
PROJECT MGR: Designer	APPROVED BY: Approver

SHEET TITLE

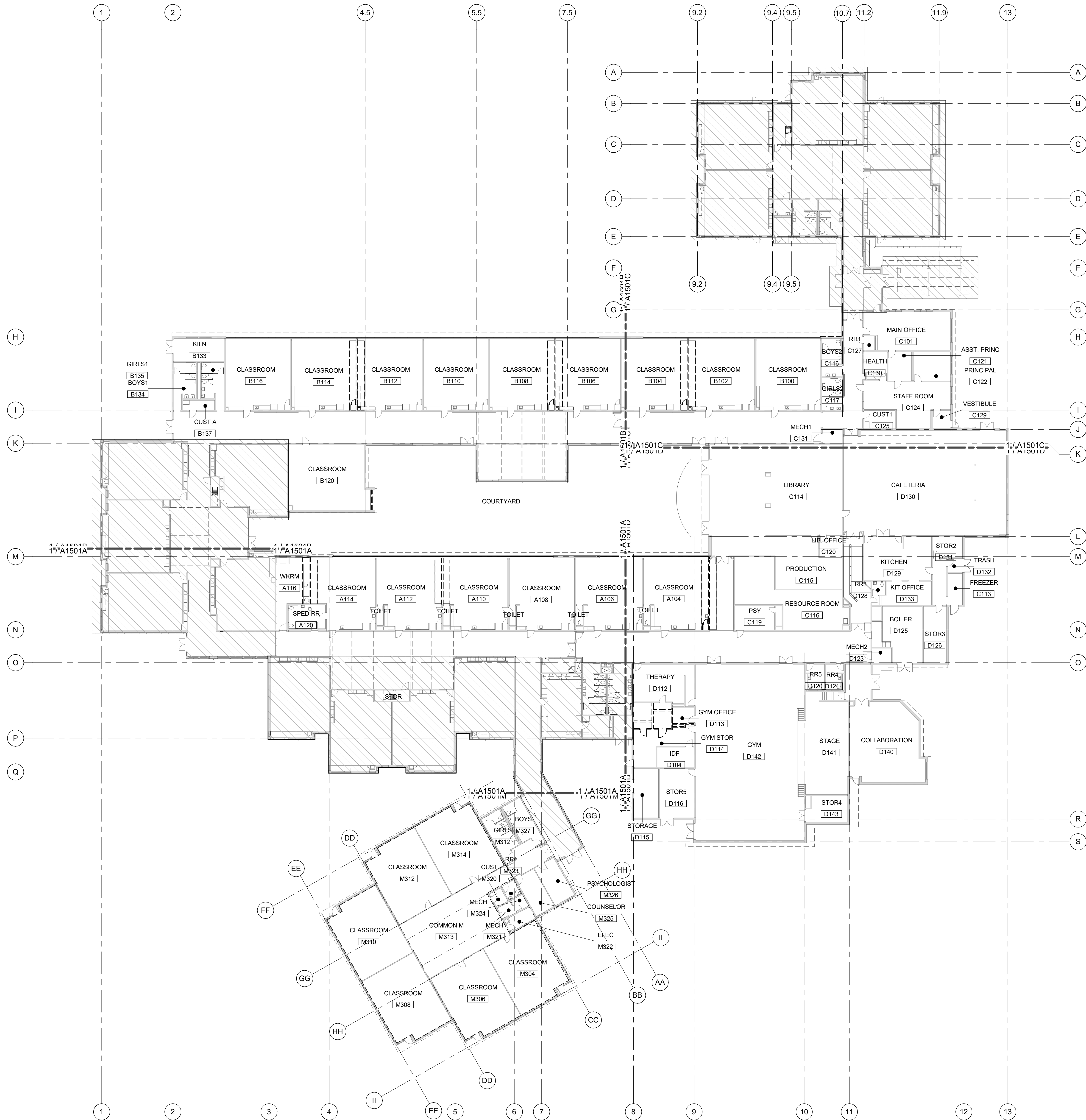
SITE PLAN

SHEET NUMBER <b>AG1201</b>	ISSUE <b>2</b>
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1/16





1 LEVEL 01 DEMO PLAN - OVERALL  
AD1101 / Scale: 1" = 20'-0"

LEGEND:

- EXISTING TO REMAIN
- NEW CONSTRUCTION
- TO BE DEMOLISHED
- AREA INDICATED NOT IN SCOPE

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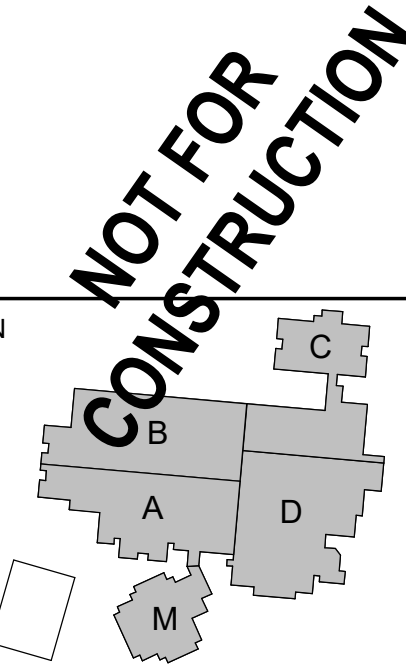
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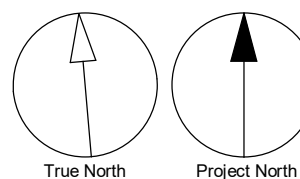
**PROJECT**  
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2125 SW 170th Avenue  
Beaverton, OR 97003

PROJECT NO: 122519	CHECKED BY: Checker
DRAWN BY: Author	APPROVED BY: Approver
PROJECT MGR: Designer	

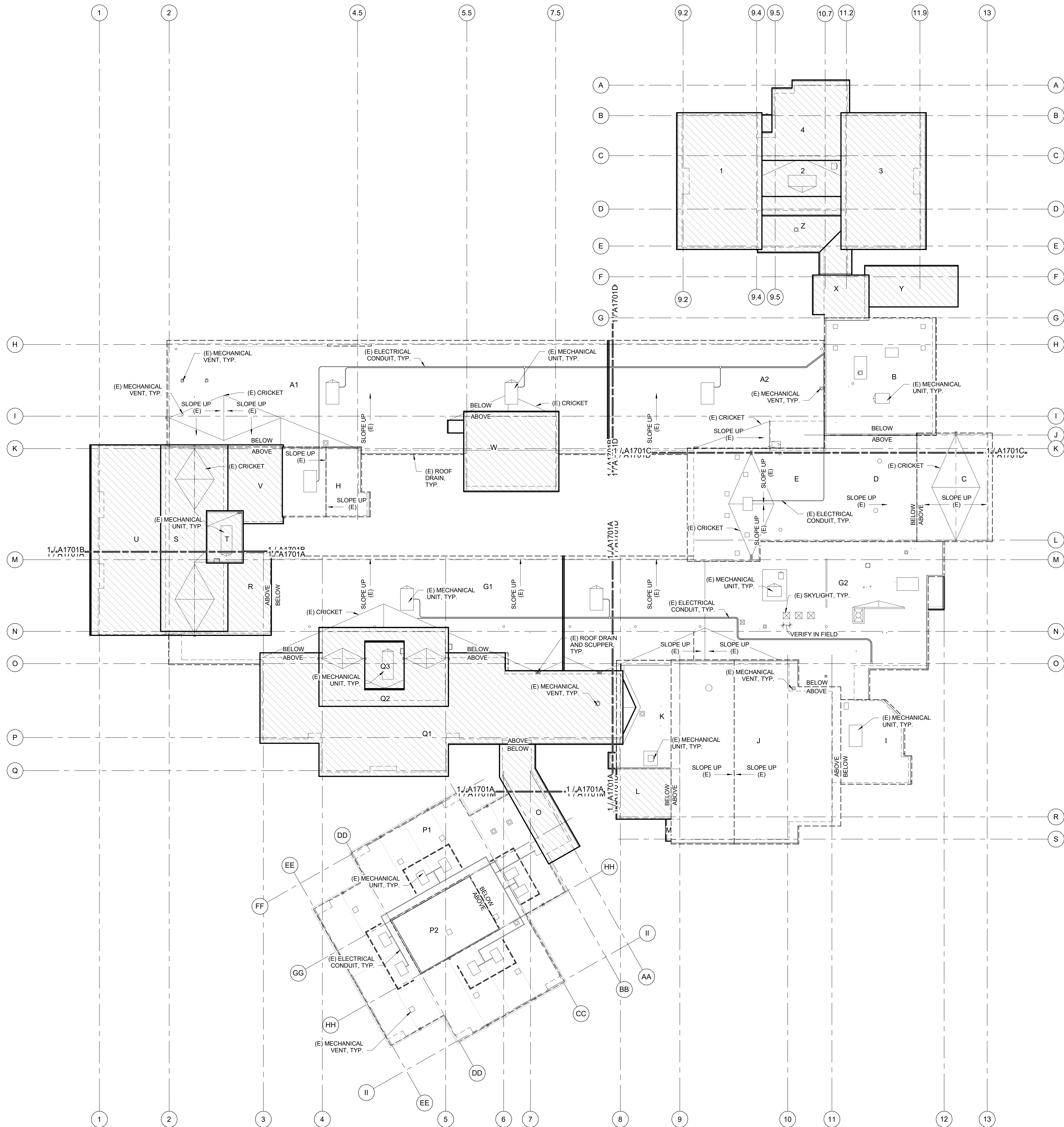
SHEET TITLE  
**LEVEL 01 - DEMOLITION PLAN**

SHEET NUMBER  
**AD1101**

ISSUE  
**2**







1 ROOF DEMO PLAN - OVERALL  
AD1301 Scale: 1" = 20'-0"

LEGEND:



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KEYPLAN

NOT FOR CONSTRUCTION

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Beaverton, OR 97003

PROJECT NO:  
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DRAWN BY:  
Author

PROJECT MGR:  
Designer

CHECKED BY:  
Checker

APPROVED BY:  
Approver

SHEET TITLE

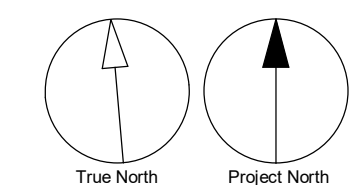
ROOF - DEMOLITION PLAN

SHEET NUMBER

AD1301

ISSUE

2





1 LEVEL 01 DEMO SECTOR PLAN - A  
AD1501A Scale: 1/8" = 1'-0"

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.
111	Demolish portion of existing CPT and concrete as needed to install 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 mechanical.
127	Demolish CMU wall.
129	Existing interior CMU wall to remain. Install 6" metal stud wall with gypsum board painted to match existing to one or both sides of existing CMU wall.

DEMO FLOOR PLAN NOTES:

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

LEGEND:

	EXISTING TO REMAIN		AREA INDICATED NOT IN SCOPE
	NEW CONSTRUCTION		
	TO BE DEMOLISHED		

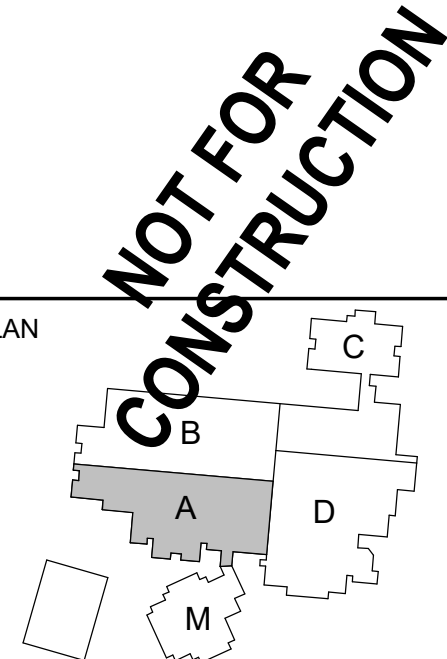
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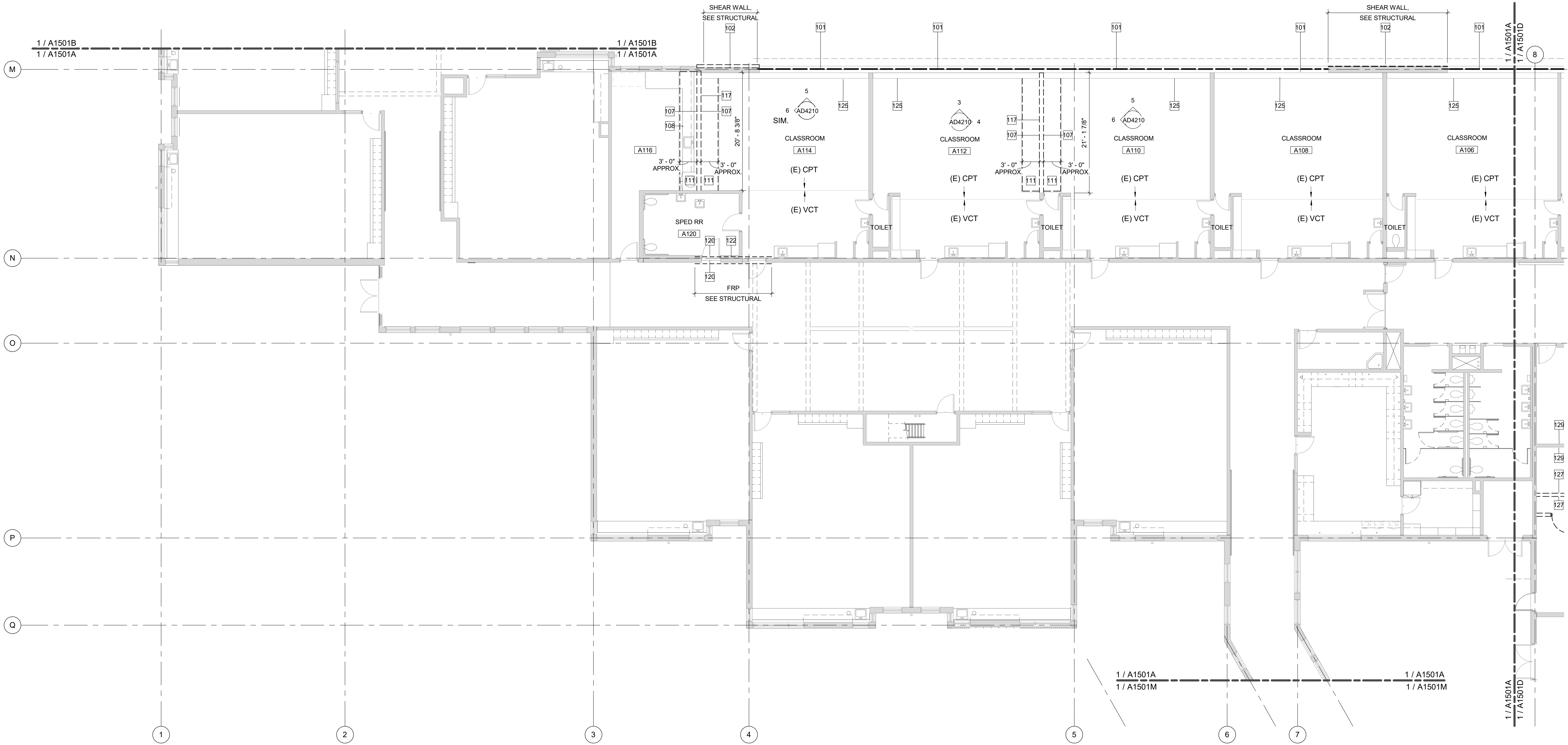
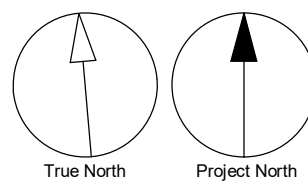
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PROJECT  
**Beaver Acres ES Seismic Improvements**  
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Beaverton, OR 97003

PROJECT NO: 122519	
DRAWN BY: Author	CHECKED BY: Checker
PROJECT MGR: Designer	APPROVED BY: Approver

SHEET TITLE  
**LEVEL 01 - DEMOLITION PLAN - SECTOR A**

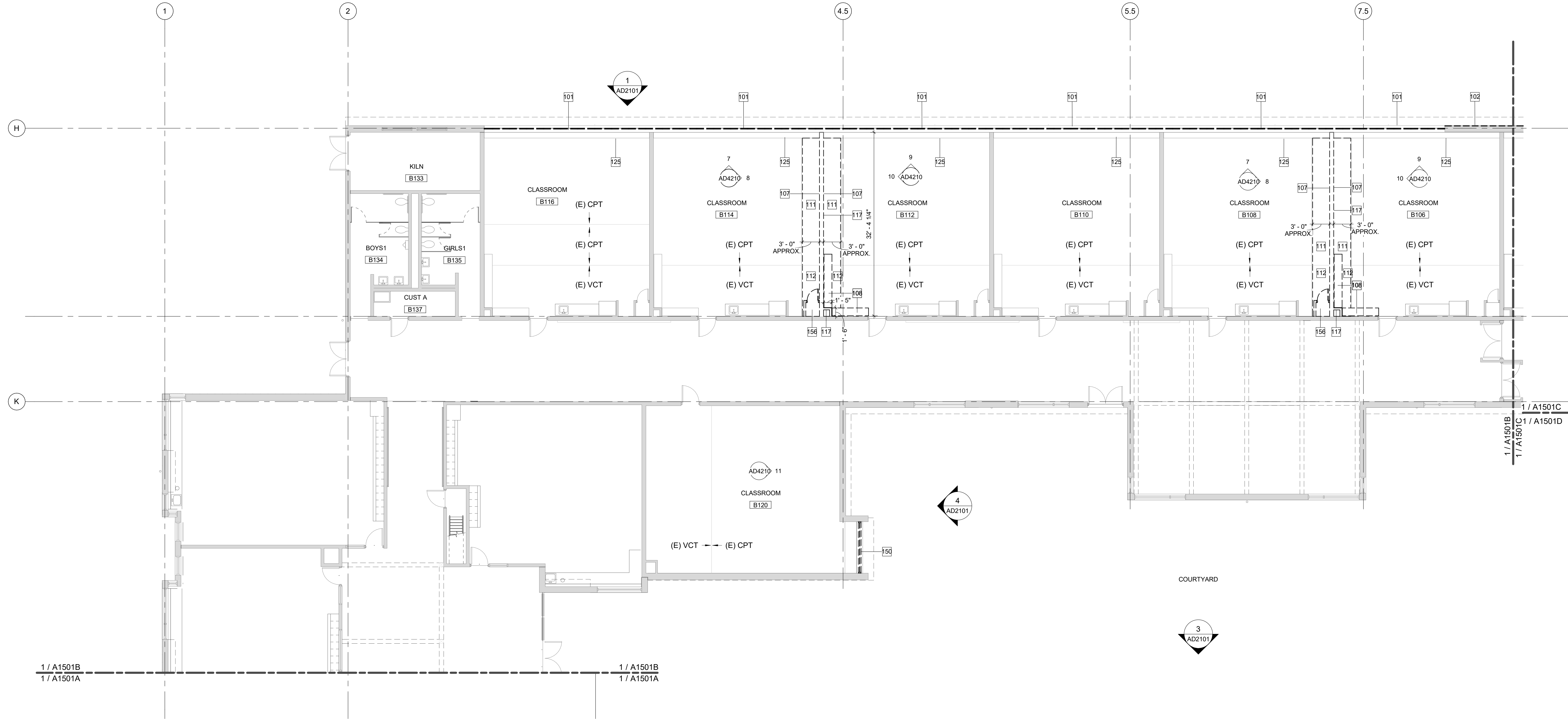
SHEET NUMBER <b>AD1501A</b>	ISSUE <b>2</b>
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1 LEVEL 01 DEMO SECTOR PLAN - B  
AD1501B Scale: 1/8" = 1'-0"



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.
111	Demolish portion of existing CPT and concrete as needed to install new 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.
125	Salvage and reinstall or replace fin tubes as needed, see mechanical.
150	Demolish existing window.
156	Demolish existing interior wood stud wall, wood door, and built-in casework to install adjacent shear wall.

DEMO FLOOR PLAN NOTES:

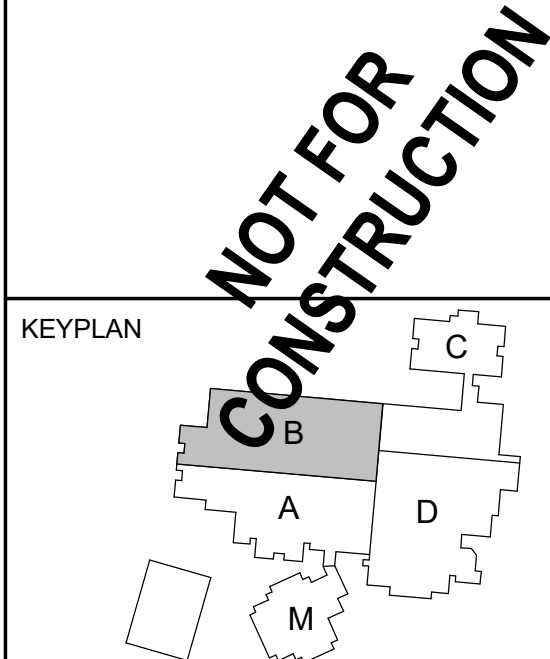
1. WHERE WINDOWS ARE TO BE DEMOLISHED, REMOVE EXISTING CURTAIN TRACK AND HORIZONTAL BLINDS.

LEGEND:	
	EXISTING TO REMAIN
	NEW CONSTRUCTION
	TO BE DEMOLISHED
	AREA INDICATED NOT IN SCOPE

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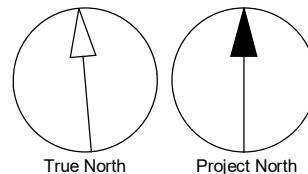
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PROJECT  
**Beaver Acres ES Seismic Improvements**  
2125 SW 170th Avenue  
Beaverton, OR 97003

PROJECT NO: 122519	
DRAWN BY: Author	CHECKED BY: Checker
PROJECT MGR: Designer	APPROVED BY: Approver

SHEET TITLE  
**LEVEL 01 - DEMOLITION PLAN - SECTOR B**

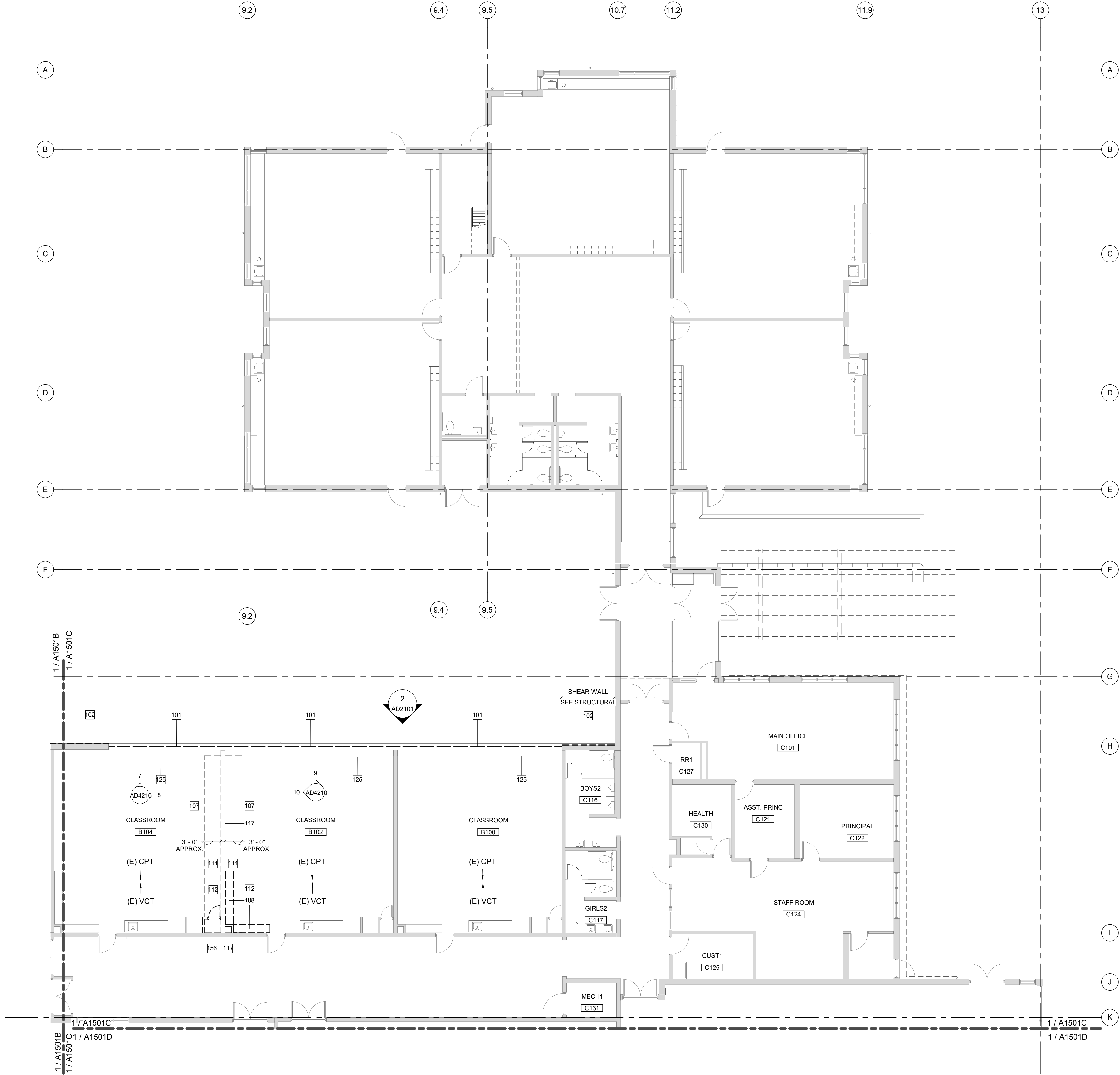
SHEET NUMBER <b>AD1501B</b>	ISSUE <b>2</b>
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SCALE: 1/8" = 1'-0"  
1/19



1 LEVEL 01 DEMO SECTOR PLAN - C  
AD1501C Scale: 1/8" = 1'-0"



LEGEND:

- EXISTING TO REMAIN  
NEW CONSTRUCTION  
TO BE DEMOLISHED  
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

- 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.  
111 Demolish portion of existing CPT and concrete as needed to install new 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.  
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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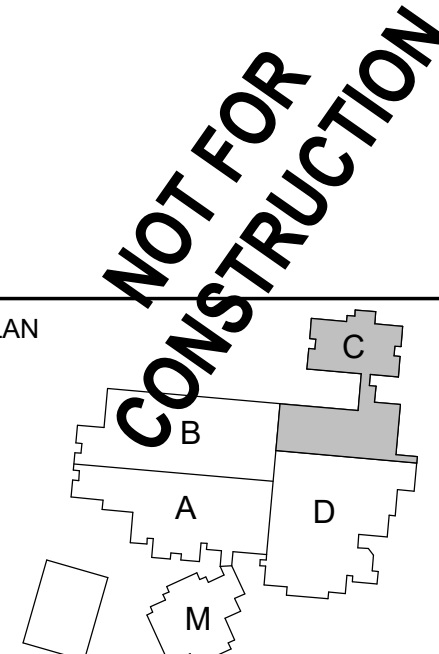
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KEYPLAN



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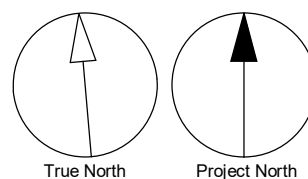
PROJECT  
Beaver Acres ES Seismic Improvements  
2125 SW 170th Avenue  
Beaverton, OR 97003

PROJECT NO: 122519	CHECKED BY: Checker
DRAWN BY: Author	APPROVED BY: Approver
PROJECT MGR: Designer	

SHEET TITLE  
LEVEL 01 - DEMOLITION PLAN  
- SECTOR C

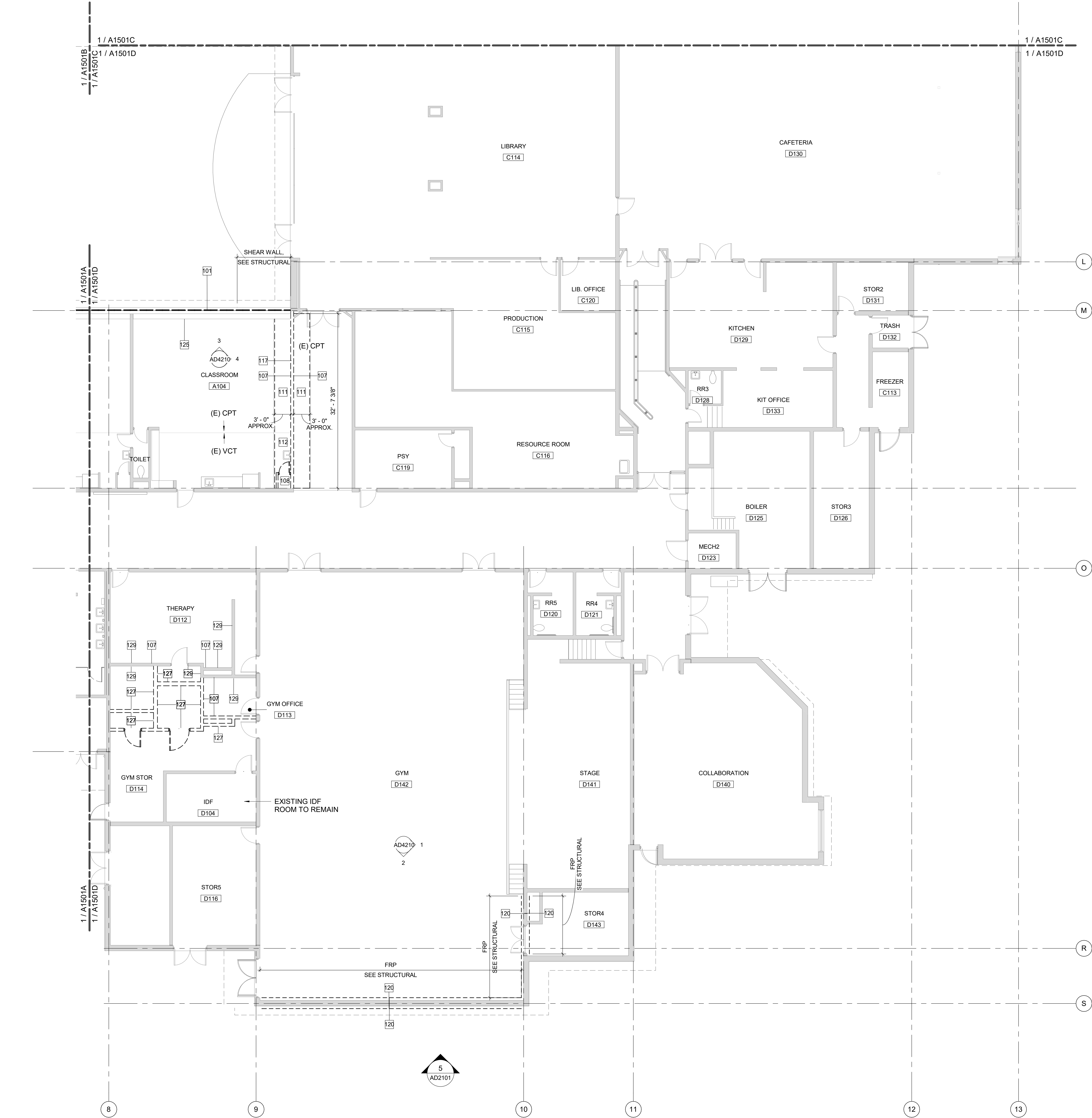
SHEET NUMBER  
AD1501C

ISSUE  
2





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1 LEVEL 01 DEMO SECTOR PLAN - D  
AD1501D Scale: 1/8" = 1'-0"

### LEGEND:

- EXISTING TO REMAIN  
NEW CONSTRUCTION  
TO BE DEMOLISHED  
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

- 101 Demolish existing window opening from perpendicular demising wall to HSS column, see structural.  
107 Remove all furnishings and equipment on wall. Store for reinstallation.  
108 Demolish existing built-in casework to install adjacent shear wall.  
111 Demolish portion of existing CPT and concrete as needed to install new 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.  
120 Prepare wall surfaces per fiber reinforced polymer (FRP) manufacturer's instructions on both sides of wall.  
125 Salvage and reinstall or replace fin tubes as needed, see mechanical.  
127 Demolish CMU wall.  
129 Existing interior CMU wall to remain. Install 6" metal stud wall with gypsum board painted to match existing to one or both sides of existing CMU wall.

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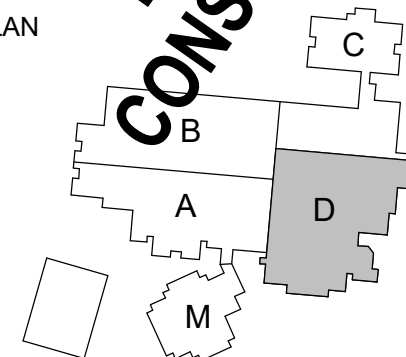
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ISSUES	DESCRIPTION	DATE
No. 2	100% DESIGN DEVELOPMENT	11.01.19

KEYPLAN



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**PROJECT**  
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2125 SW 170th Avenue  
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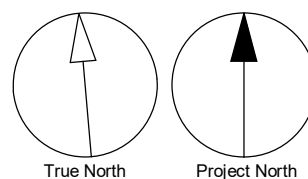
**PROJECT NO:**  
122519

<b>DRAWN BY:</b> Author	<b>CHECKED BY:</b> Checker
<b>PROJECT MGR:</b> Designer	<b>APPROVED BY:</b> Approver

**SHEET TITLE**  
**LEVEL 01 - DEMOLITION PLAN - SECTOR D**

**SHEET NUMBER**  
**AD1501D**

**ISSUE**  
**2**



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1 LEVEL 01 DEMO SECTOR PLAN - M  
AD1501M Scale: 1/8" = 1'-0"

LEGEND:

- EXISTING TO REMAIN
- NEW CONSTRUCTION
- TO BE DEMOLISHED
- 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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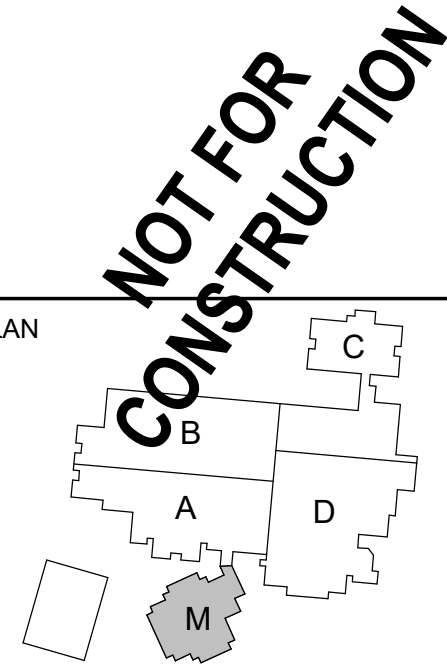


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ISSUES		
No.	DESCRIPTION	DATE
2	100% DESIGN DEVELOPMENT	11.01.19



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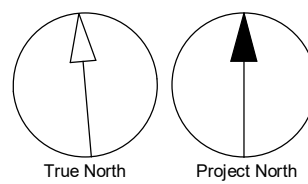


**PROJECT**  
**Beaver Acres ES Seismic Improvements**  
2125 SW 170th Avenue  
Beaverton, OR 97003

PROJECT NO: 122519	CHECKED BY: Checker
DRAWN BY: Author	APPROVED BY: Approver
PROJECT MGR: Designer	

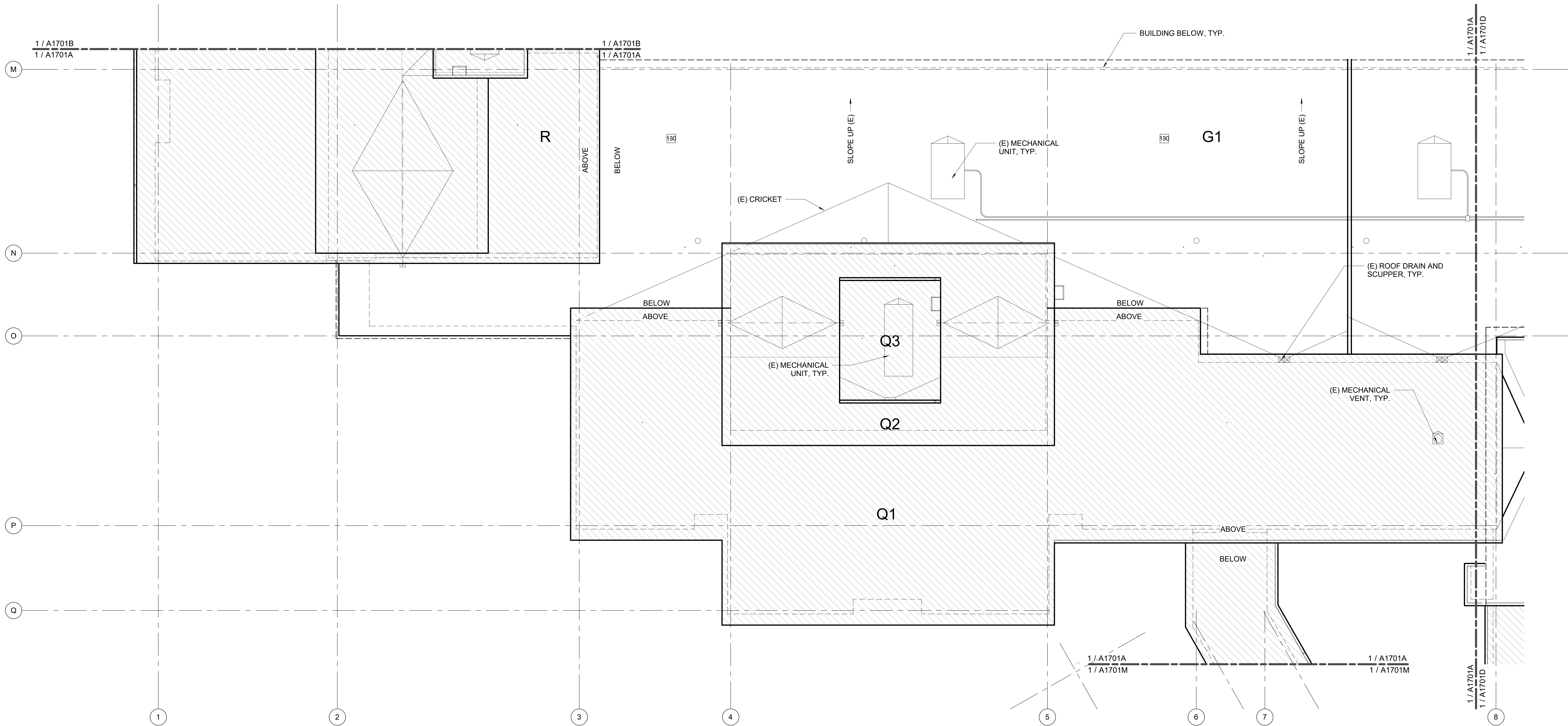
SHEET TITLE  
**LEVEL 01 - DEMOLITION PLAN - SECTOR M**

SHEET NUMBER <b>AD1501M</b>	ISSUE <b>2</b>
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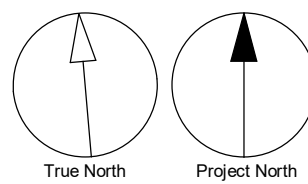




2019-11-01 1:44:12 PM



1 ROOF DEMO PLAN - SECTOR - A  
AD1701A Scale: 1/8" = 1'-0"



LEGEND:

	NOT IN SCOPE
	EXISTING TO REMAIN
	TO BE DEMOLISHED

DEMO ROOF PLAN NOTES:

- EXISTING EXTERIOR WALL FINISHES TO REMAIN INTACT DURING DEMOLITION.

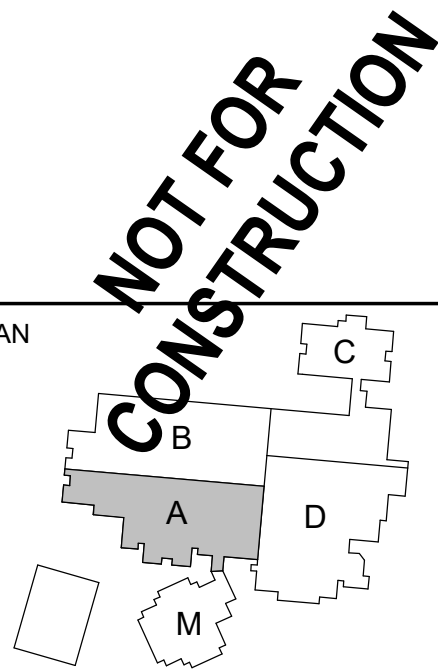
KEYNOTE LEGEND

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

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PROJECT  
Beaver Acres ES Seismic Improvements  
2125 SW 170th Avenue  
Beaverton, OR 97003

PROJECT NO: 122519	CHECKED BY: Checker
DRAWN BY: Author	APPROVED BY: Approver
PROJECT MGR: Designer	

SHEET TITLE  
ROOF - DEMOLITION PLAN - SECTOR A

SHEET NUMBER  
AD1701A

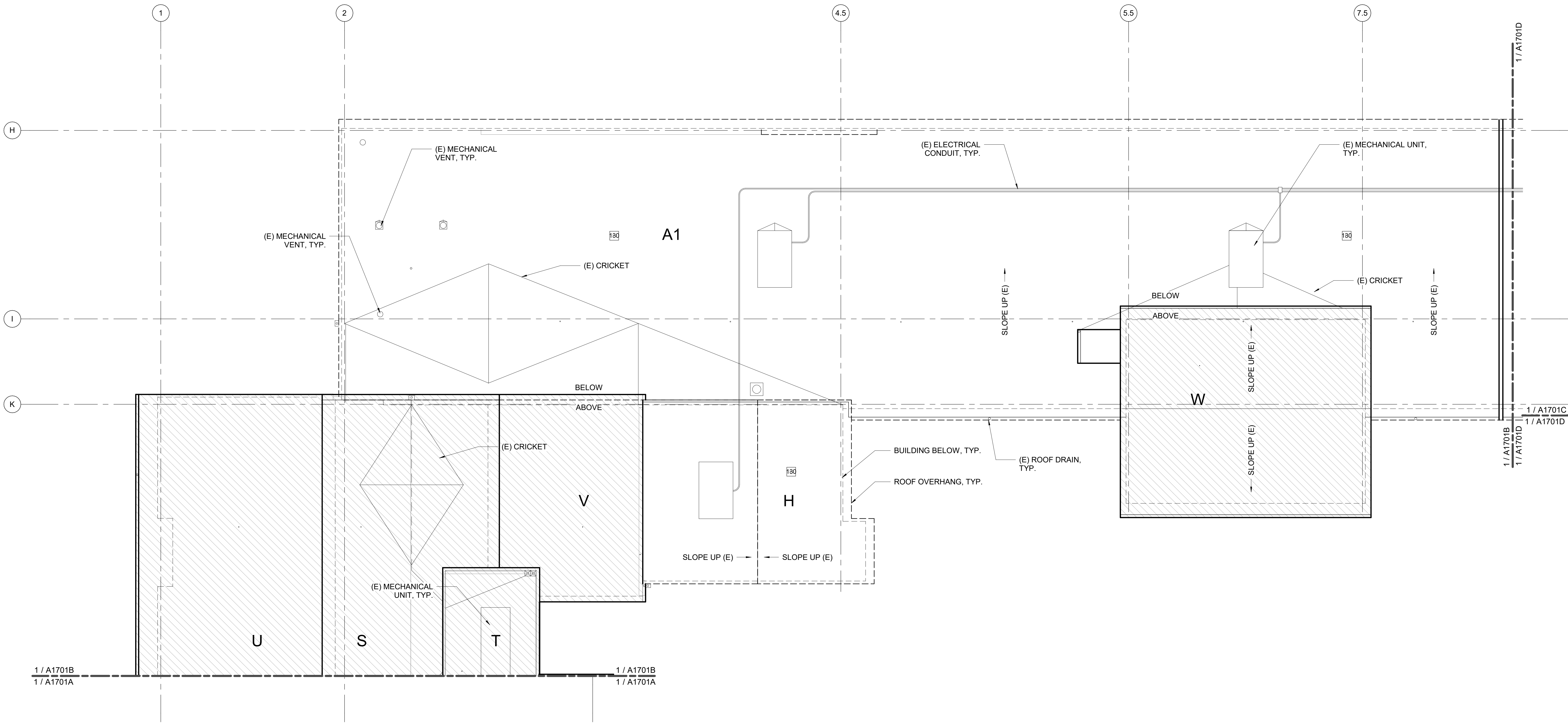
ISSUE  
2

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



2019-11-01 1:44:14 PM



1 ROOF DEMO PLAN - SECTOR - B  
AD1701B Scale: 1/8" = 1'-0"

### LEGEND:

	NOT IN SCOPE
	EXISTING TO REMAIN
	TO BE DEMOLISHED

### DEMO ROOF PLAN NOTES:

- EXISTING EXTERIOR WALL FINISHES TO REMAIN INTACT DURING DEMOLITION.

#### KEYNOTE LEGEND

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

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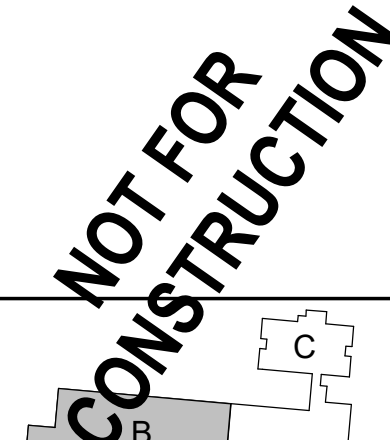


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No.	DESCRIPTION	DATE
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KEYPLAN

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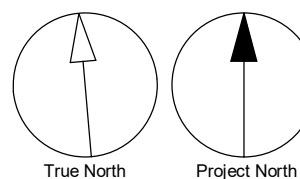


**PROJECT**  
**Beaver Acres ES Seismic Improvements**  
2125 SW 170th Avenue  
Beaverton, OR 97003

PROJECT NO: 122519	CHECKED BY: Checker
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PROJECT MGR: Designer	

**SHEET TITLE**  
**ROOF - DEMOLITION PLAN - SECTOR B**

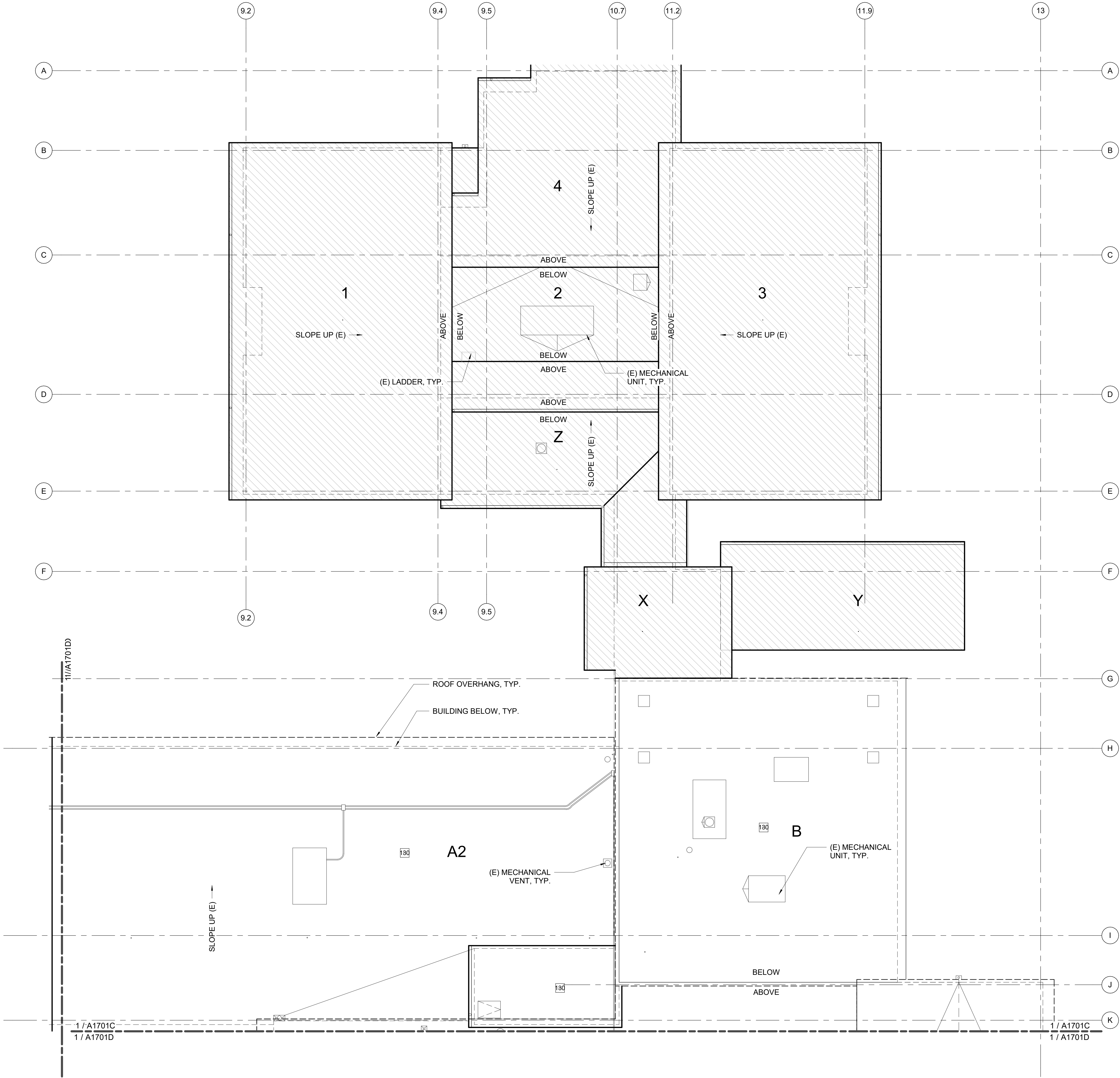
SHEET NUMBER <b>AD1701B</b>	ISSUE <b>2</b>
--------------------------------	-------------------



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1/19





1 ROOF DEMO PLAN - SECTOR - C  
AD1701C Scale: 1/8" = 1'-0"

LEGEND:

	NOT IN SCOPE		EXISTING TO REMAIN
	TO BE DEMOLISHED		

DEMO ROOF PLAN NOTES:

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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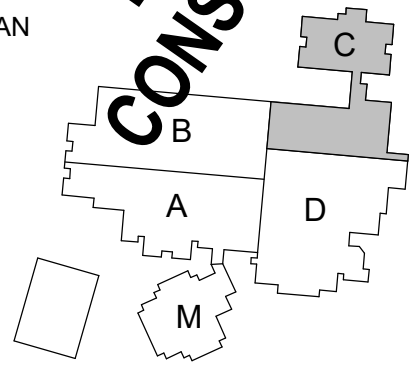
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	2	100% DESIGN DEVELOPMENT	11.01.19

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KEYPLAN



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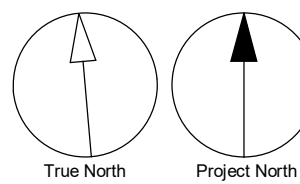


PROJECT  
**Beaver Acres ES Seismic Improvements**  
2125 SW 170th Avenue  
Beaverton, OR 97003

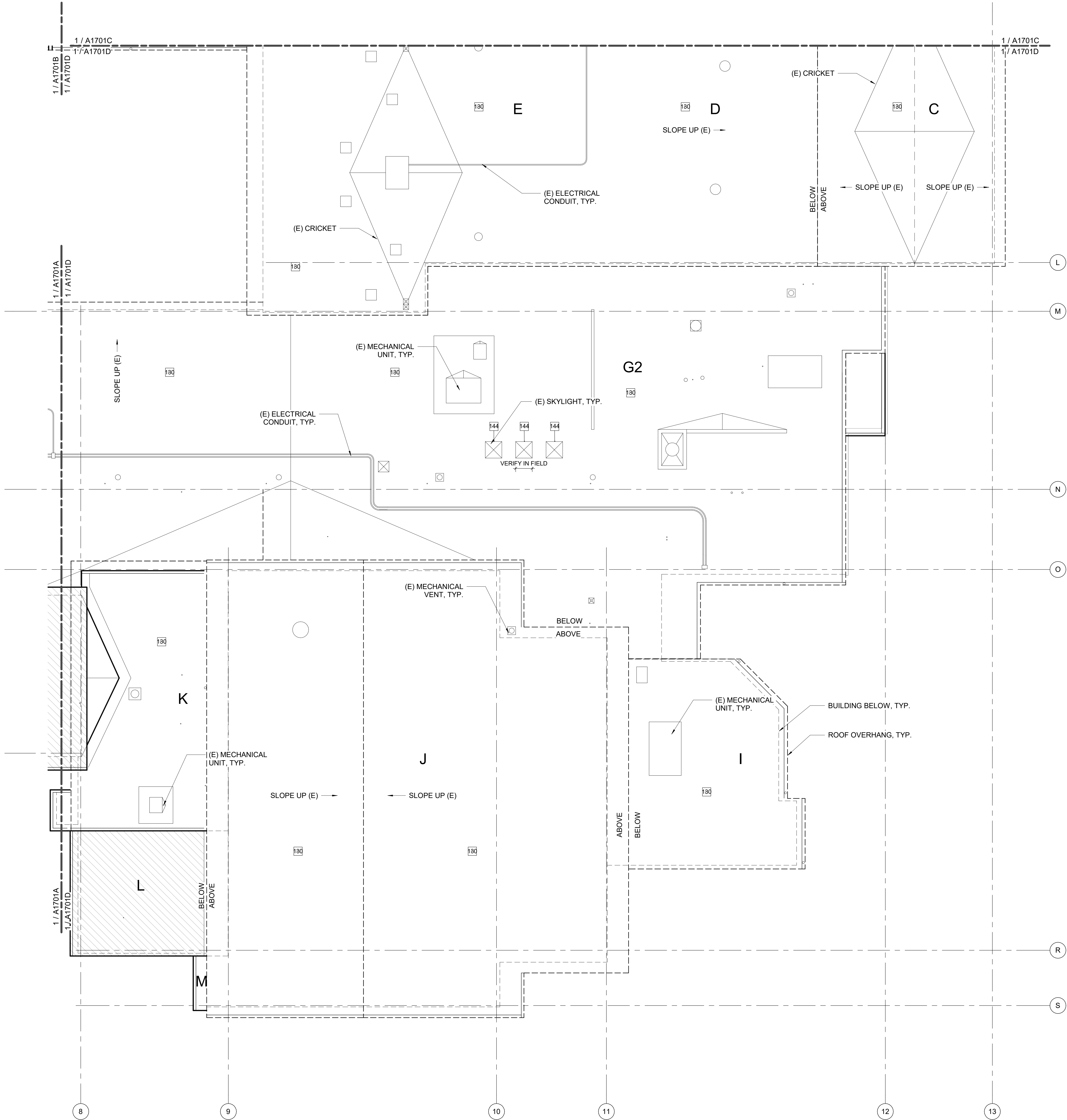
PROJECT NO: 122519	CHECKED BY: Checker
DRAWN BY: Author	APPROVED BY: Approver
PROJECT MGR: Designer	

SHEET TITLE  
**ROOF - DEMOLITION PLAN - SECTOR C**

SHEET NUMBER <b>AD1701C</b>	ISSUE <b>2</b>
--------------------------------	-------------------







1 ROOF DEMO PLAN - SECTOR - D  
AD1701D Scale: 1/8" = 1'-0"

LEGEND:

	NOT IN SCOPE
	EXISTING TO REMAIN
	TO BE DEMOLISHED

DEMO ROOF PLAN NOTES:

- 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.

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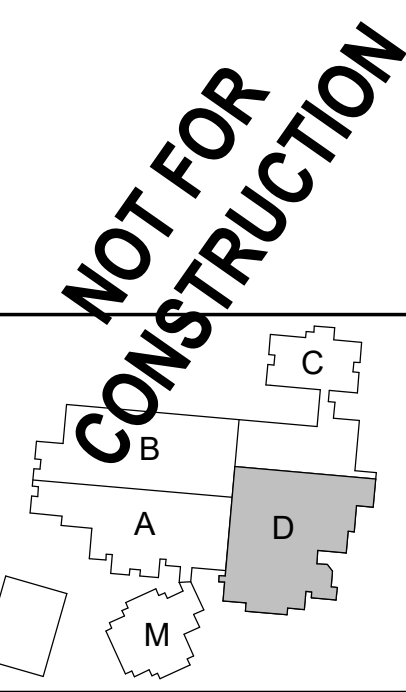


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ISSUES		
No.	DESCRIPTION	DATE
2	100% DESIGN DEVELOPMENT	11.01.19



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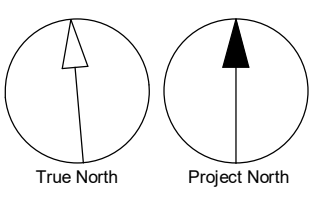


**PROJECT**  
**Beaver Acres ES Seismic Improvements**  
2125 SW 170th Avenue  
Beaverton, OR 97003

PROJECT NO: 122519	CHECKED BY: Checker
DRAWN BY: Author	APPROVED BY: Approver
PROJECT MGR: Designer	

**SHEET TITLE**  
**ROOF - DEMOLITION PLAN - SECTOR D**

SHEET NUMBER <b>AD1701D</b>	ISSUE <b>2</b>
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LEGEND:

	NOT IN SCOPE		EXISTING TO REMAIN
	TO BE DEMOLISHED		

DEMO ROOF PLAN NOTES:


- 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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PROJECT

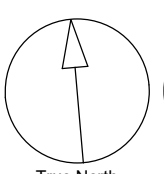
**Beaver Acres ES Seismic Improvements**  
2125 SW 170th Avenue  
Beaverton, OR 97003

PROJECT NO: 122519	
DRAWN BY: Author	CHECKED BY: Checker
PROJECT MGR: Designer	APPROVED BY: Approver

SHEET TITLE

**ROOF - DEMOLITION PLAN - SECTOR M**

SHEET NUMBER	ISSUE
<b>AD1701M</b>	<b>2</b>

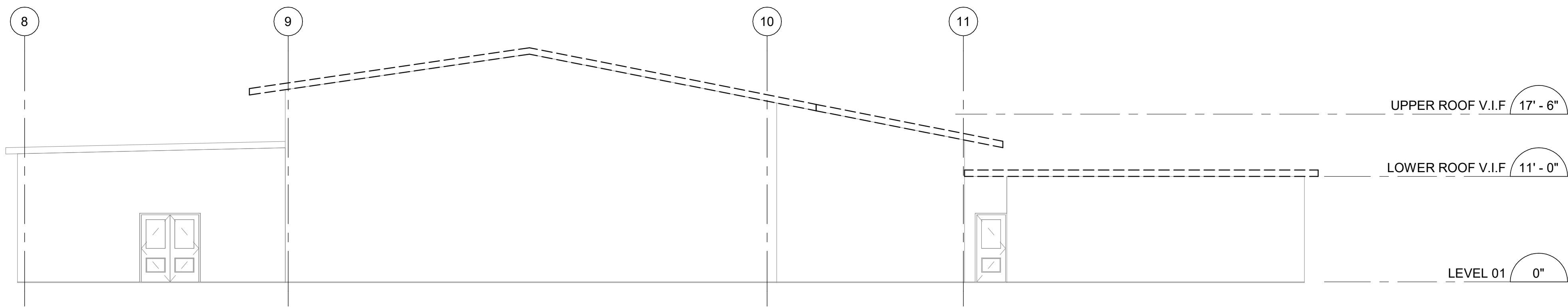


True North  
Project North

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17m

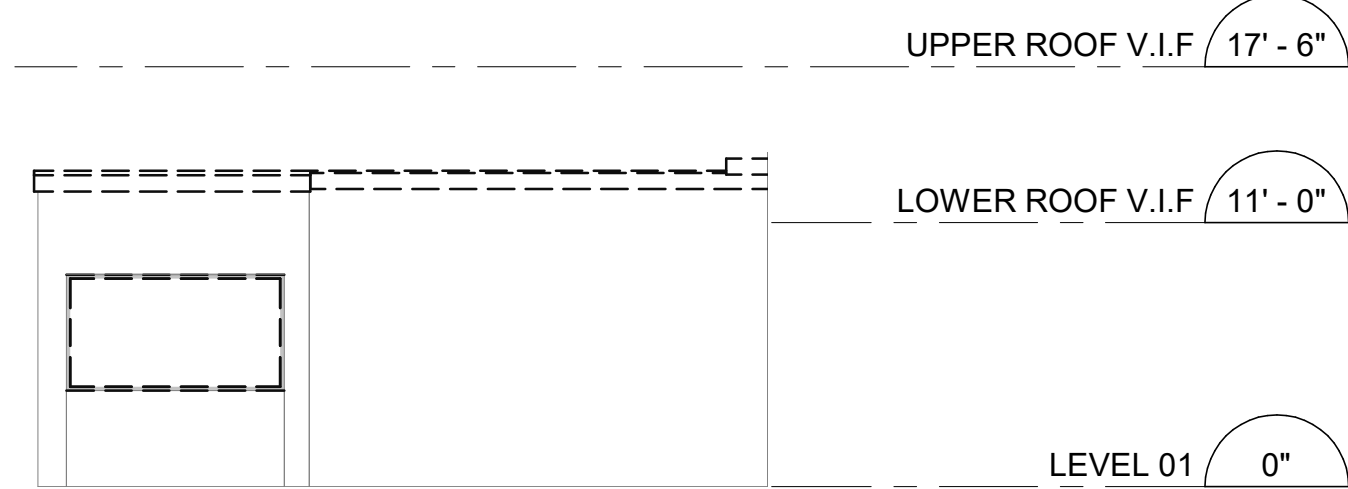


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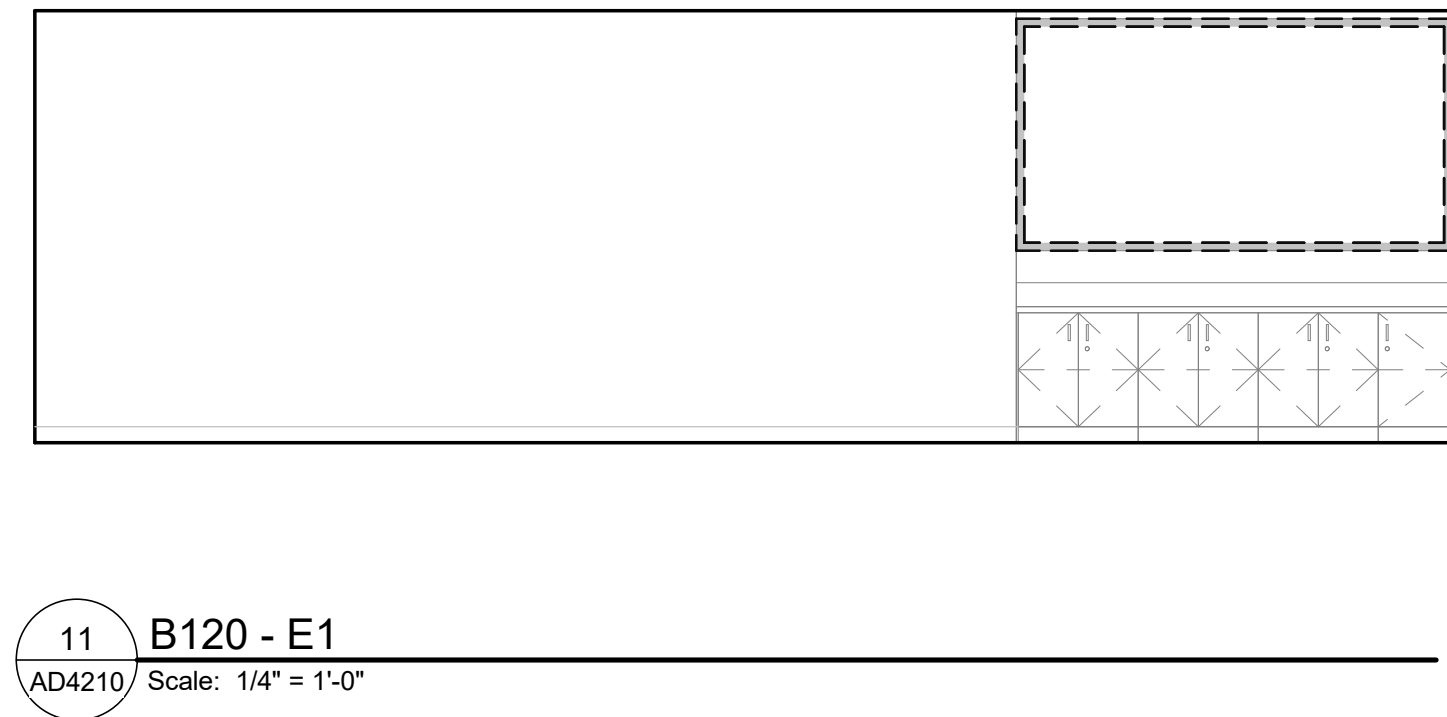
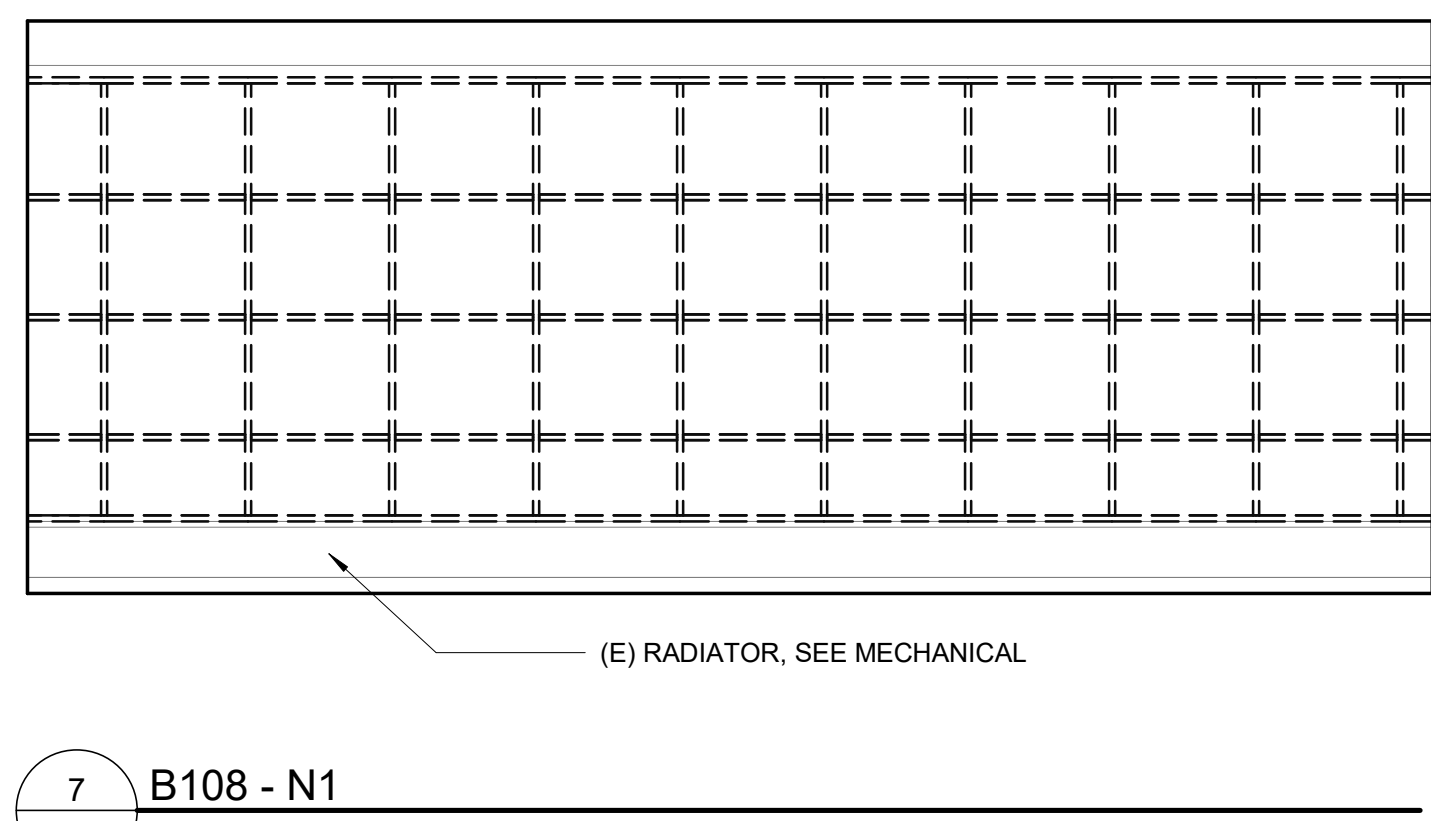
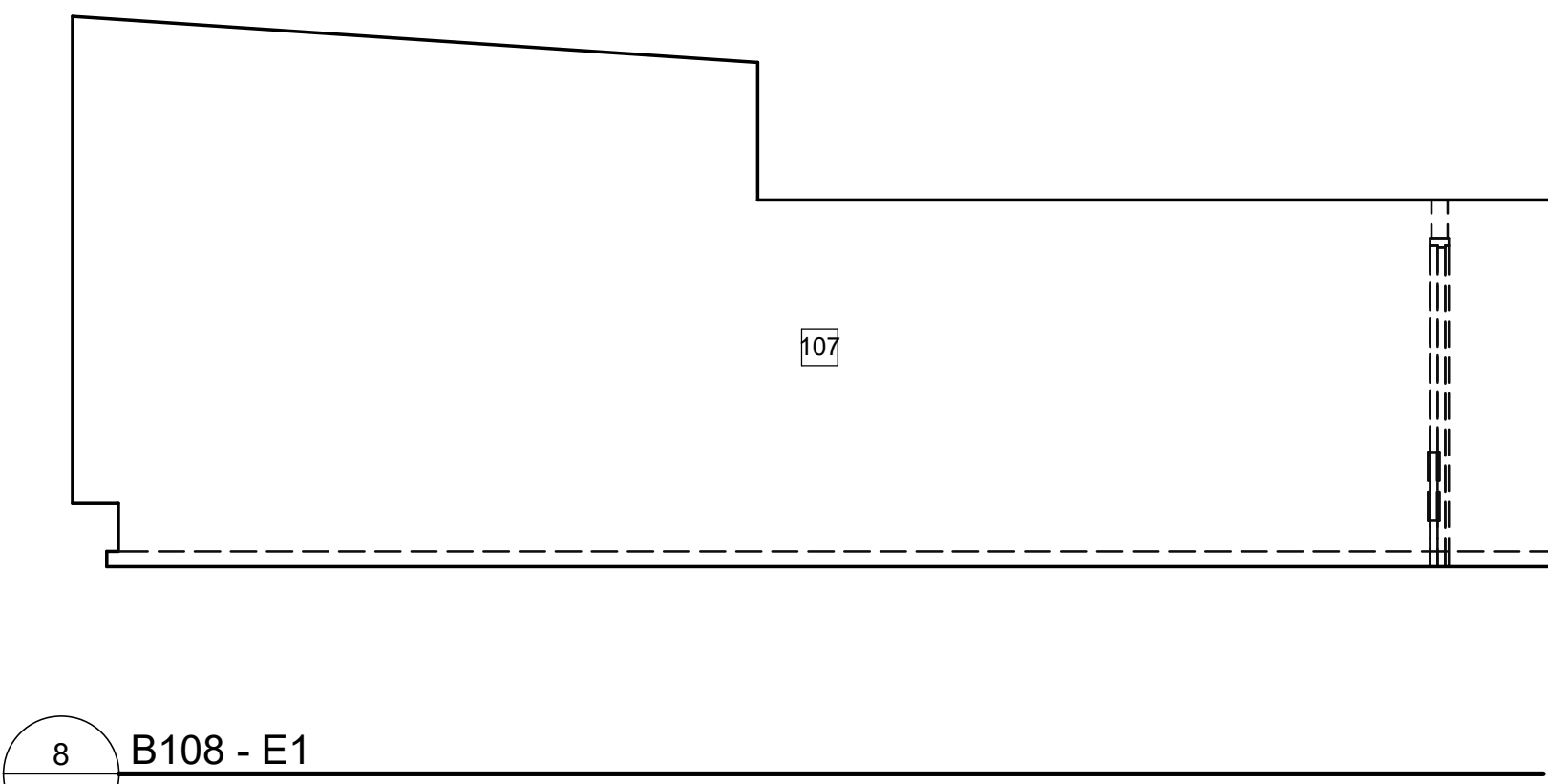
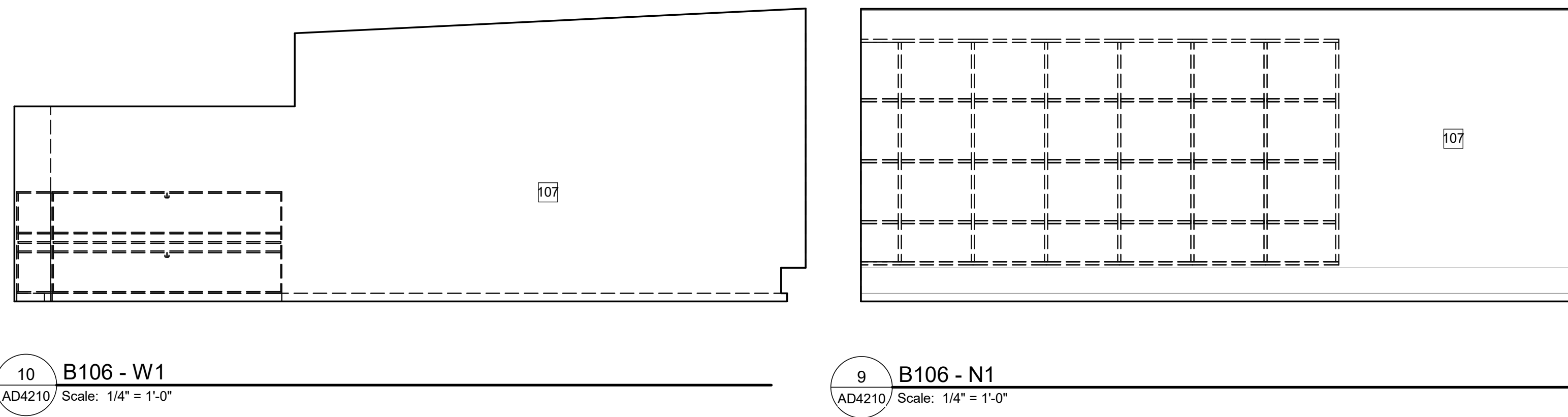
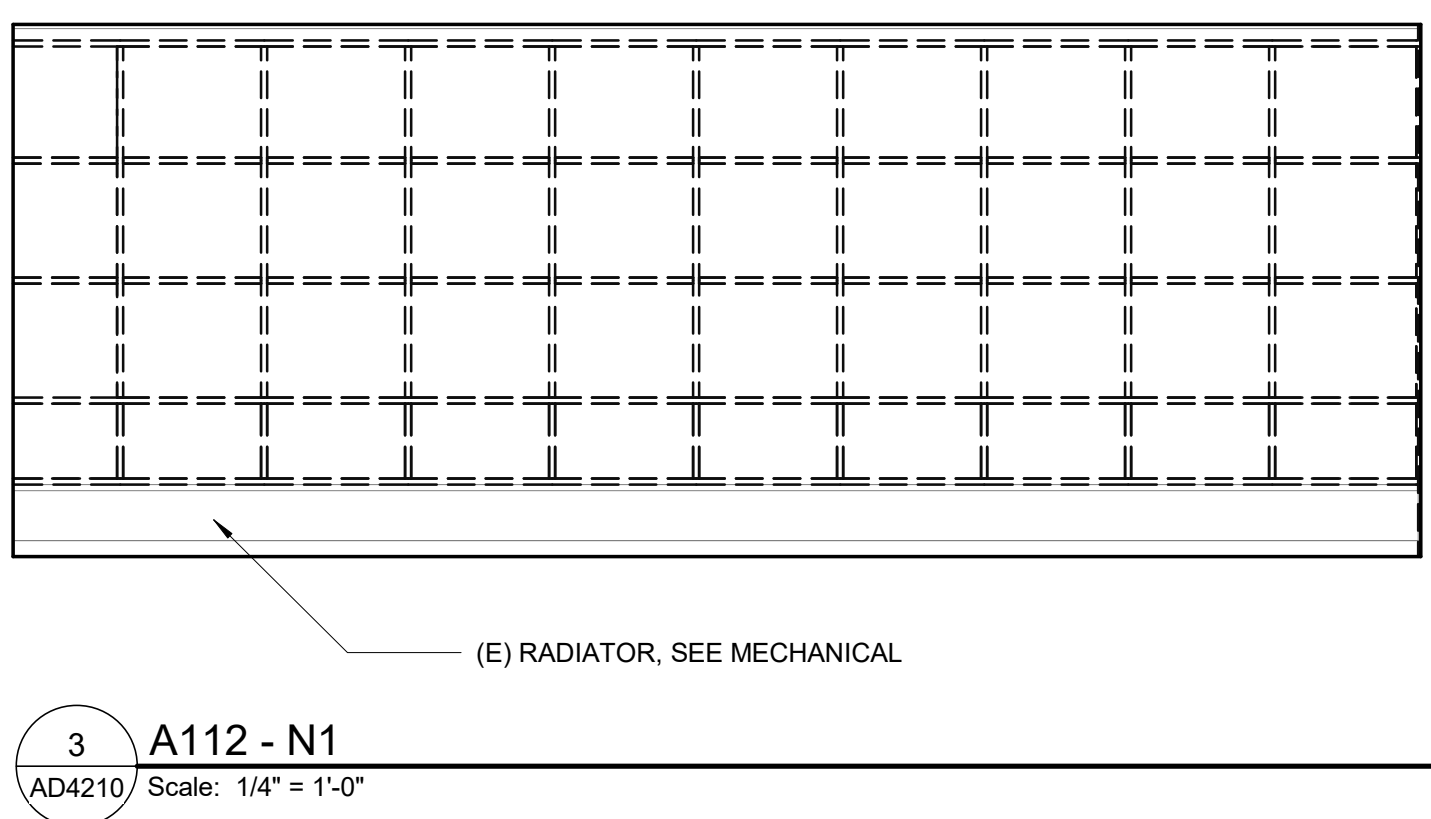
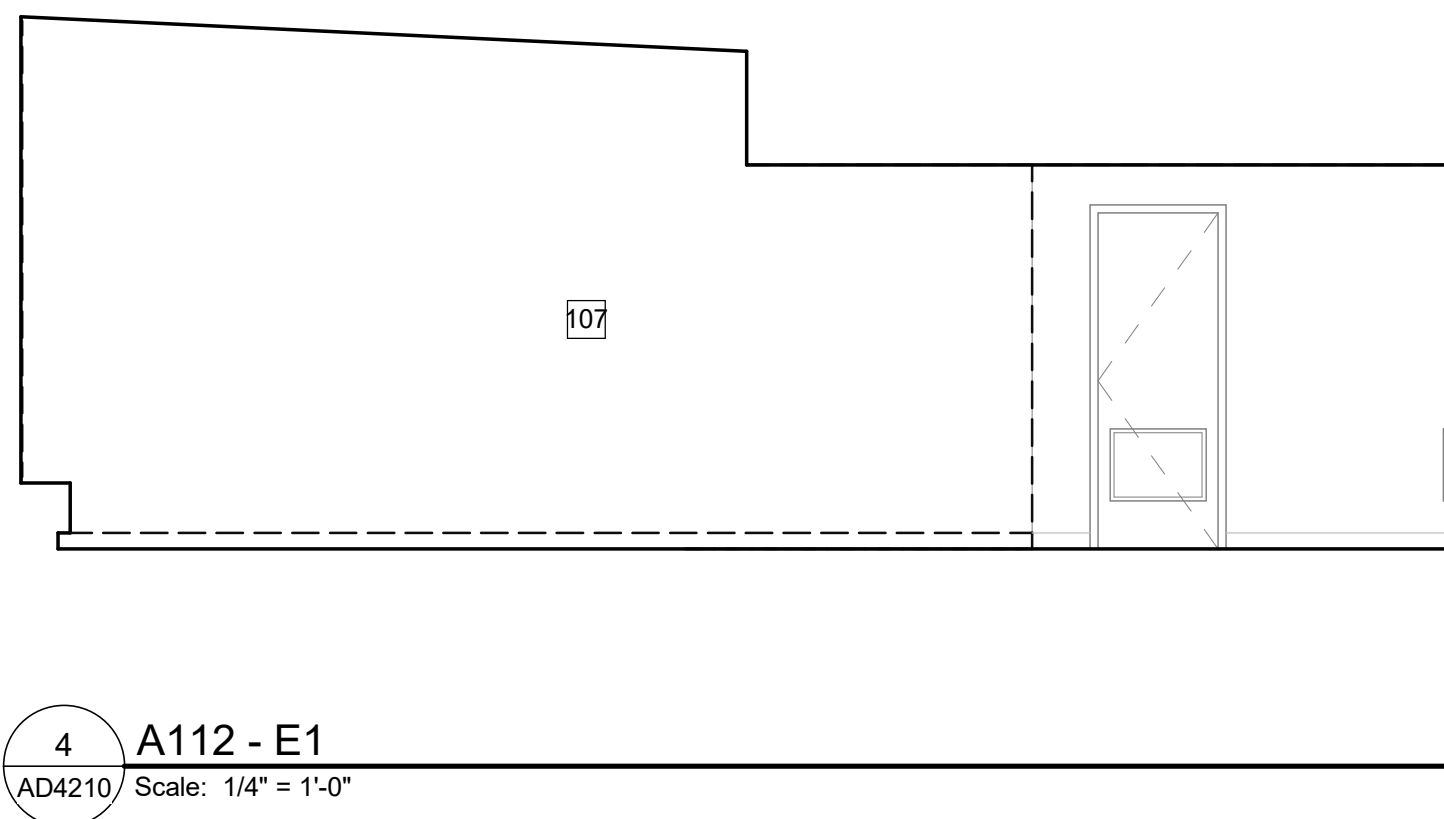
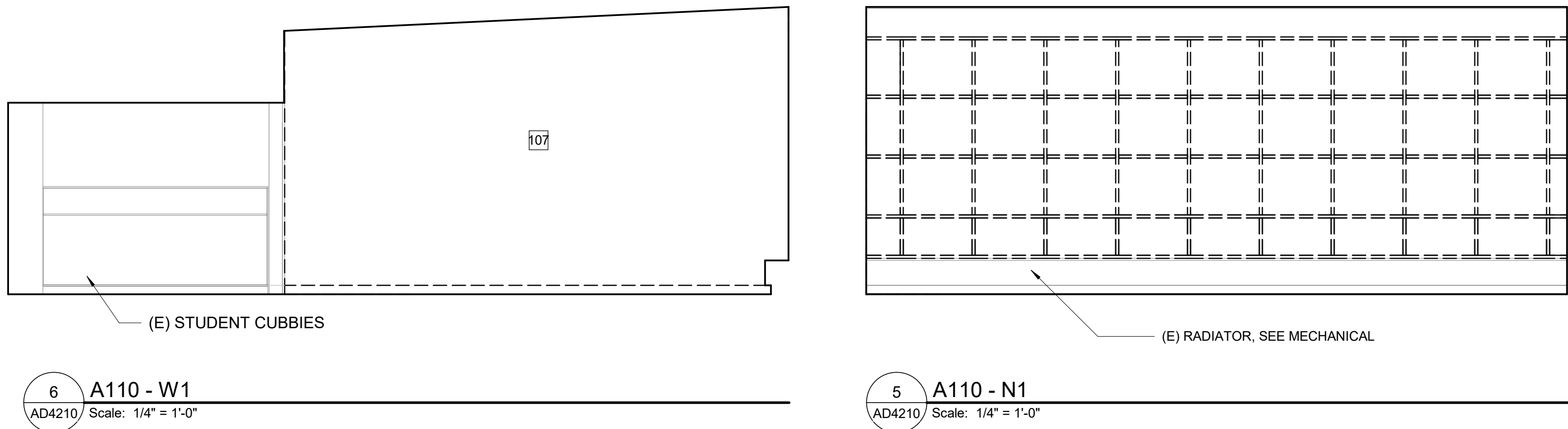
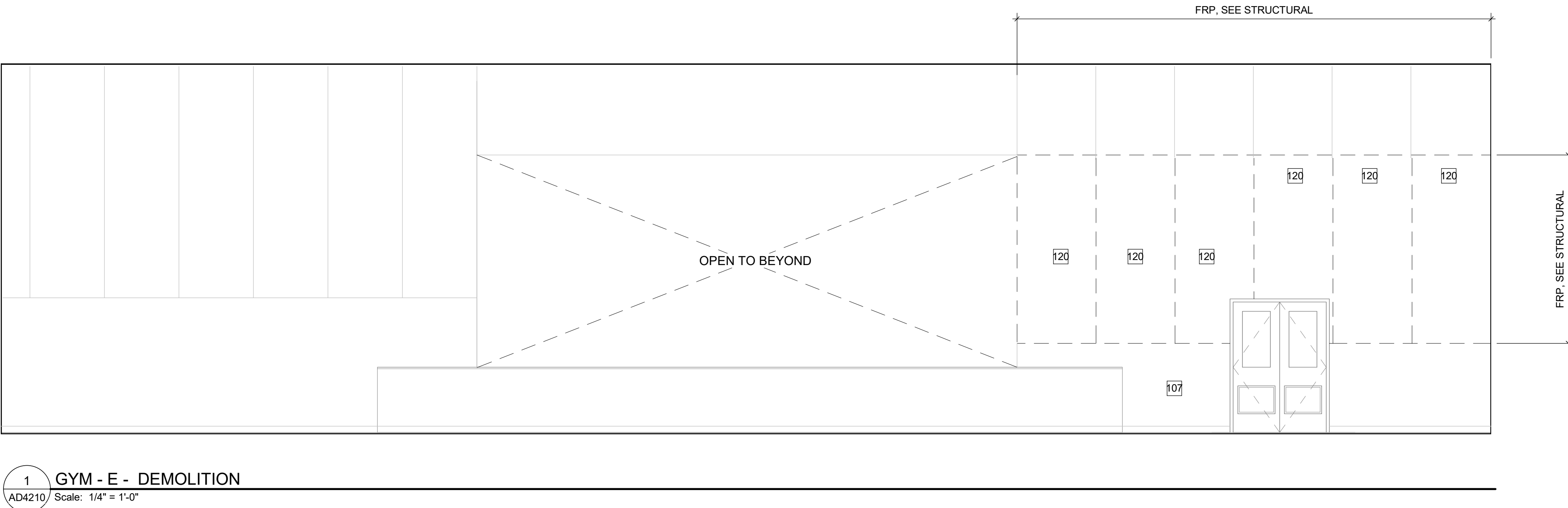
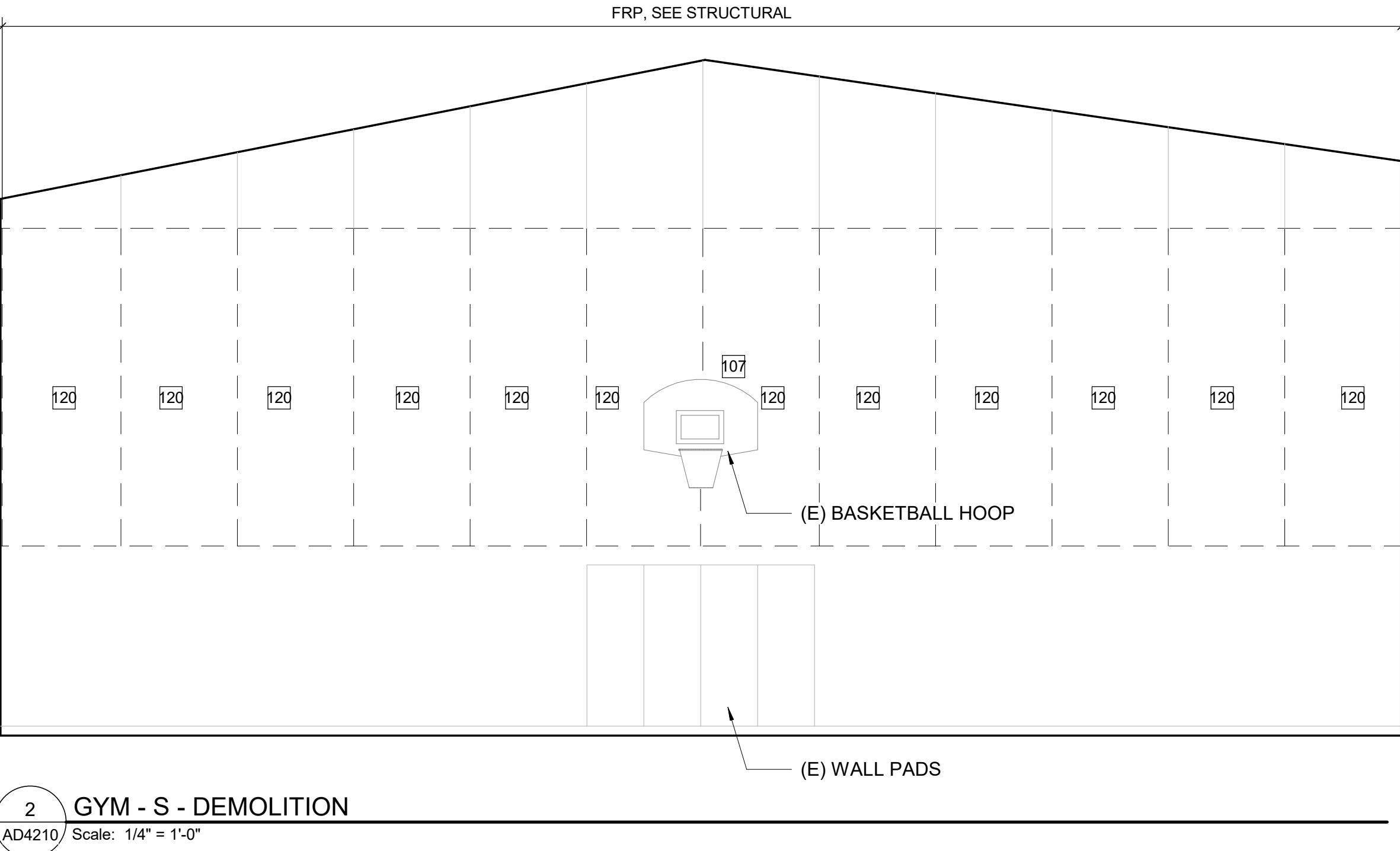
5 NORTH FACADE - GYM - DEMOLITION

AD2101 Scale: 1/8" = 1'-0"





2018-11-01 1:44:15 PM



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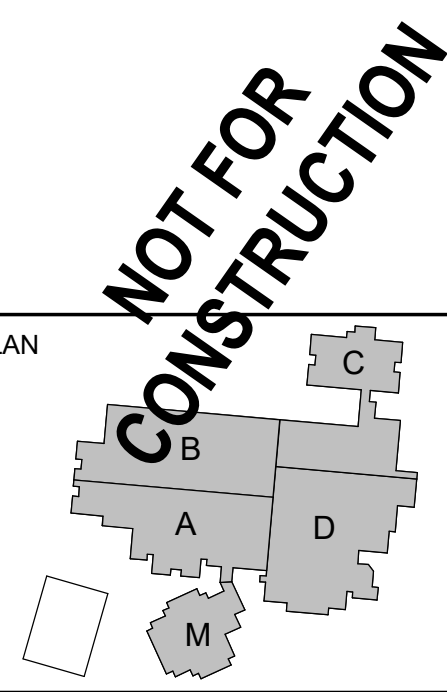
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ISSUES		DATE
No.	DESCRIPTION	
2	100% DESIGN DEVELOPMENT	11.01.19

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PROJECT

Beaver Acres ES Seismic Improvements  
2125 SW 170th Avenue  
Beaverton, OR 97003

PROJECT NO: 122519	
DRAWN BY: Author	CHECKED BY: Checker
PROJECT MGR: Designer	APPROVED BY: Approver

SHEET TITLE

INTERIOR ELEVATIONS - DEMOLITION

SHEET NUMBER	ISSUE
AD4210	2

SCALE

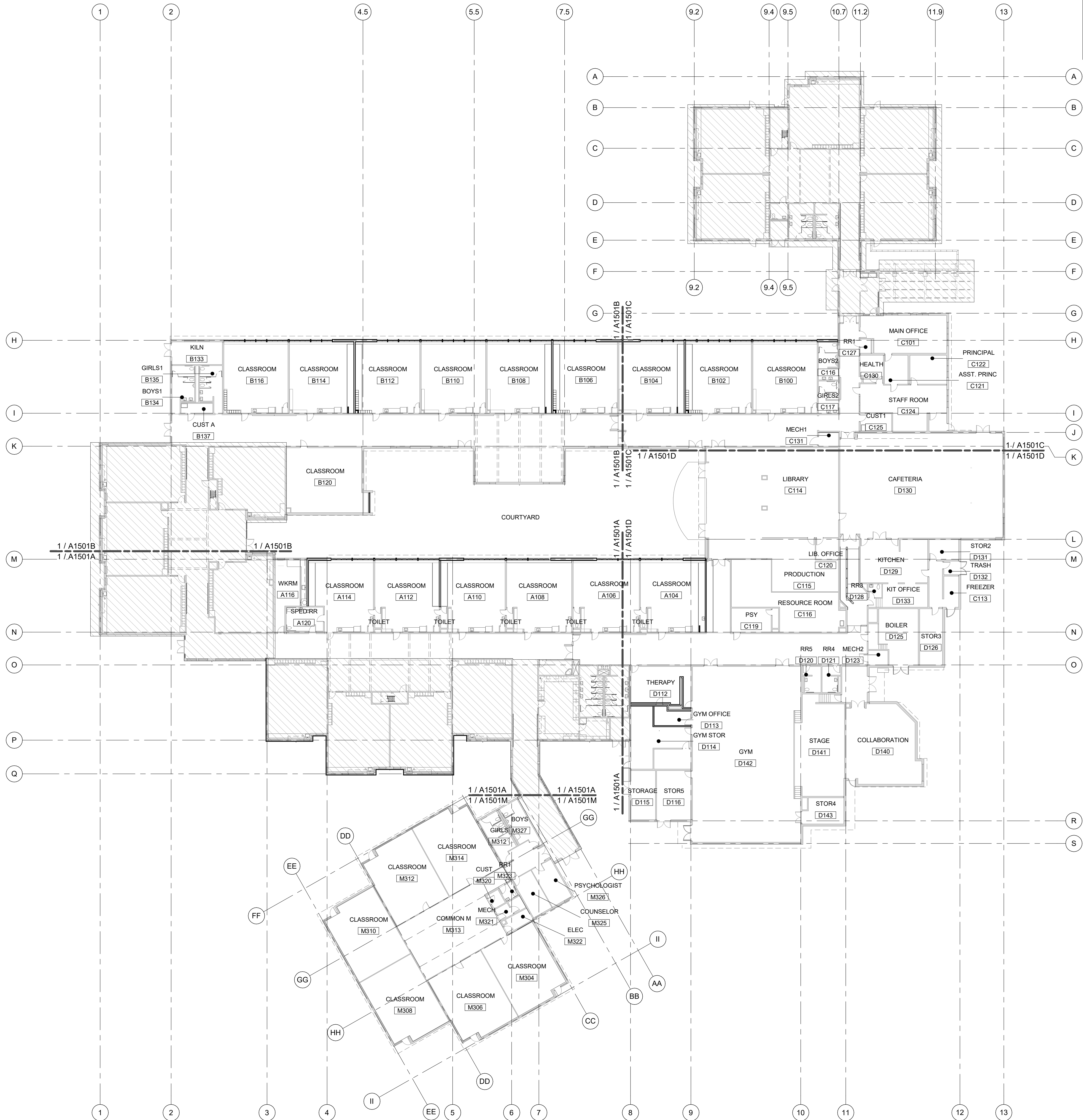
1/4" = 1'-0"

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1/16

2019-11-01 1:42:07 PM

1 LEVEL 01 FLOOR PLAN - OVERALL  
A1101 Scale: 1" = 20'-0"



**LEGEND:**

EXISTING TO REMAIN

NEW CONSTRUCTION

AREA INDICATED NOT IN SCOPE

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2	100% DESIGN DEVELOPMENT	11.01.19

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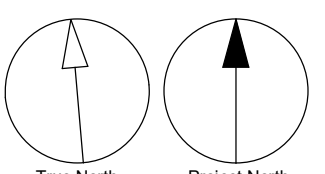
PROJECT  
**Beaver Acres ES Seismic Improvements**  
2125 SW 170th Avenue  
Beaverton, OR 97003

PROJECT NO:  
122519

DRAWN BY: Author	CHECKED BY: Checker
PROJECT MGR: Designer	APPROVED BY: Approver

SHEET TITLE  
**FLOOR PLAN - LEVEL 01 - OVERALL**

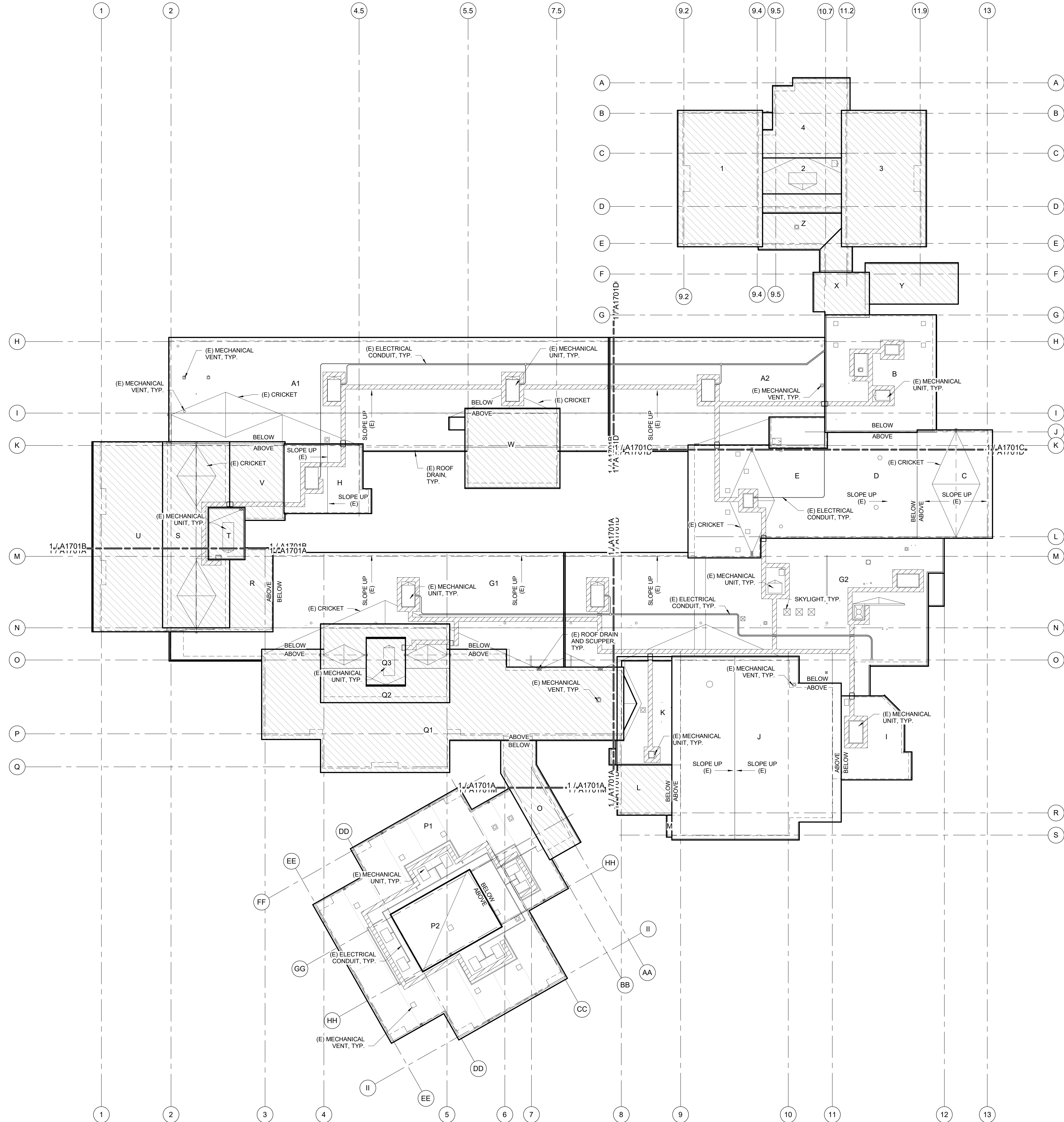
SHEET NUMBER <b>A1101</b>	ISSUE <b>2</b>
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2019-11-01 1:42:09 PM




**LEGEND:**

AREA INDICATED NOT IN SCOPE

NEW WALK PAD

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Beaverton School District



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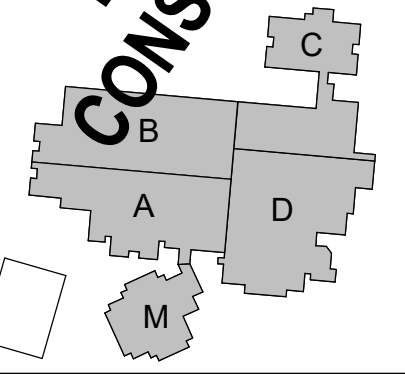
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No.	DESCRIPTION
1	SCHEMATIC DESIGN CHECKSET
2	100% DESIGN DEVELOPMENT

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**PROJECT**

**Beaver Acres ES Seismic Improvements**

2125 SW 170th Avenue  
Beaverton, OR 97003

**PROJECT NO:**

122519

**DRAWN BY:**

Author

**CHECKED BY:**

Checker

**PROJECT MGR:**

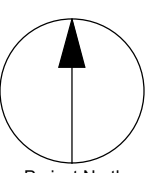
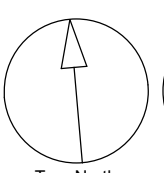
Designer

**APPROVED BY:**

Approver

**SHEET TITLE**

**ROOF PLAN - OVERALL**



True North  
Project North

**SHEET NUMBER**

A1401

**ISSUE**

2

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SCALE: ARCH

1/8" = 1'-0"



2018-11-01 1:42:10 PM

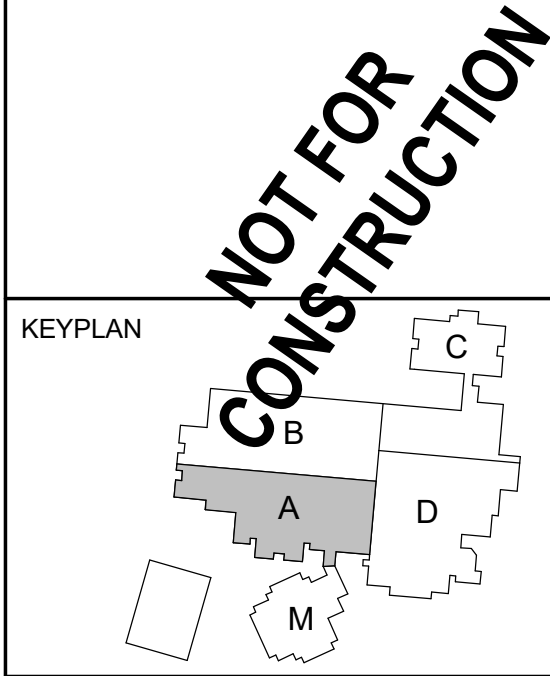
1 LEVEL 01 SECTOR PLAN - A  
A1501A Scale: 1/8" = 1'-0"

KEYNOTE LEGEND	
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.
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.
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.
113	Install portion of CPT and rubber base to match existing adjacent.
123	Reinstall all wall mounted furnishings and equipment at original locations, typ.
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.
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.
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 fixtures to match existing.

- FLOOR PLAN NOTES:**
- DIMENSIONS SHOWN ARE TO FACE OF STUD, FACE OF MASONRY OR CENTERLINE OF COLUMN OR GRID LINE UNLESS NOTED OTHERWISE.
  - 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.
  - MASONRY DIMENSIONS ARE NOMINAL. COORDINATE ACTUAL ROUGH OPENING MASONRY DIMENSIONS.
  - DIMENSIONS AT GLAZING ASSEMBLIES ARE TO CENTER OF ASSEMBLY UNLESS NOTED OTHERWISE.
  - 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.
  - 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.
  - 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.
  - LOADING OF CONSTRUCTION MATERIALS SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT.
  - ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING WITH APPROPRIATE TRADES, DRAWINGS, AND SUBCONTRACTORS PRIOR TO CONSTRUCTION.
  - 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.
  - CONFIRM ALL ROUGH OPENING DIMENSIONS FOR DOORS AND WINDOWS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
  - WHERE A LENGTH OF WALL IS INTERSECTED BY PERPENDICULAR WALLS, WALL TYPE TO BE CONTINUOUS BETWEEN TAGS UNLESS NOTED OTHERWISE.
  - PROVIDE SOLID BLOCKING BETWEEN ROOF JOISTS WHERE WALL RUNS PERPENDICULAR TO ROOF JOISTS. GYPSUM BOARD TO TERMINATE AT ROOF JOISTS.
  - SEE WALL TYPES SHEET(S) FOR DEFLECTION HEAD DETAILS.

LEGEND:	
	EXISTING TO REMAIN
	NEW CONSTRUCTION
	AREA INDICATED NOT IN SCOPE

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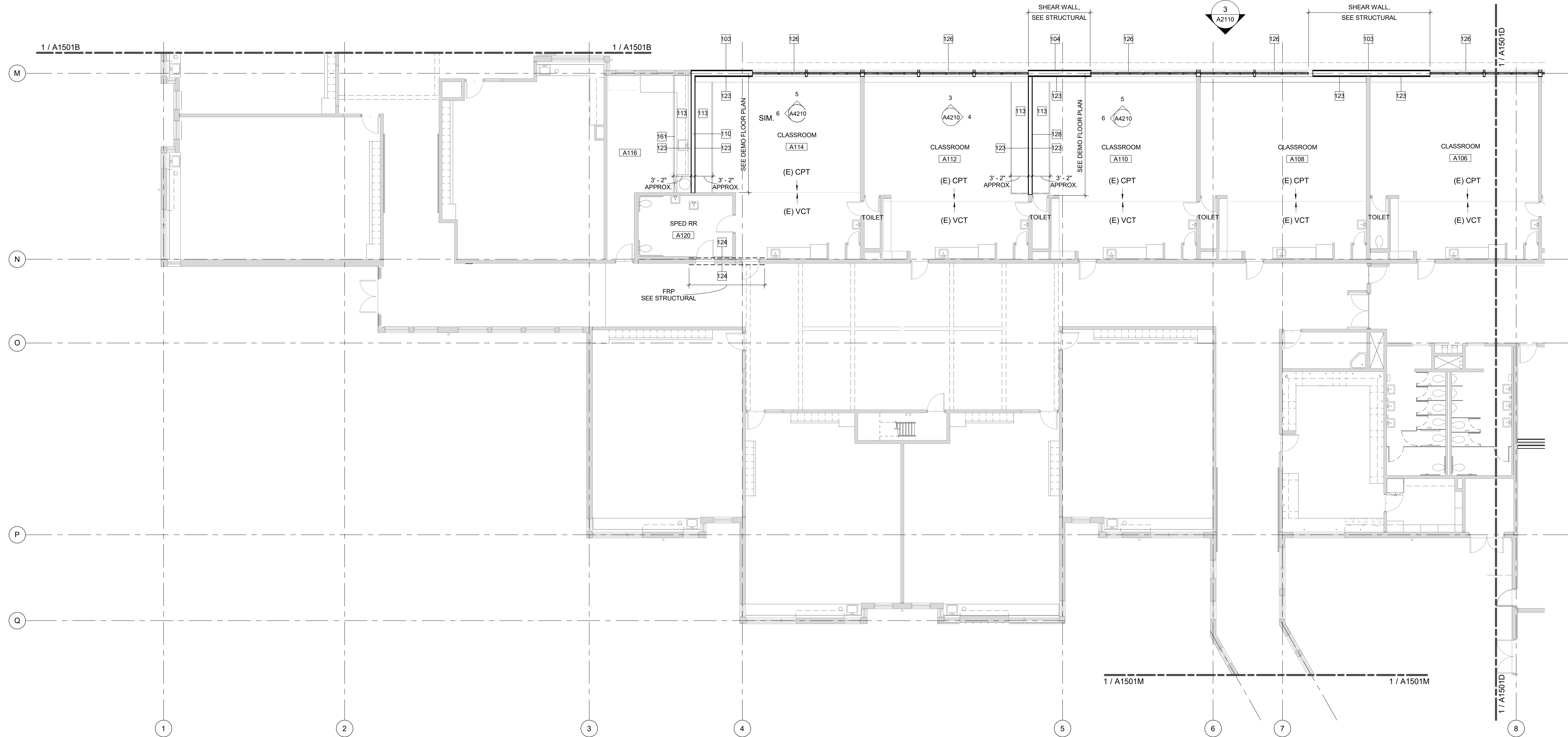
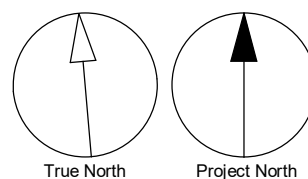
PRIME CONSULTANT	
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PROJECT  
**Beaver Acres ES Seismic Improvements**  
2125 SW 170th Avenue  
Beaverton, OR 97003

PROJECT NO: 122519	
DRAWN BY: Author	CHECKED BY: Checker
PROJECT MGR: Designer	APPROVED BY: Approver

SHEET TITLE  
**FLOOR PLAN - LEVEL 01 - SECTOR A**


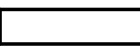

SHEET NUMBER <b>A1501A</b>	ISSUE <b>2</b>
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KEYNOTE LEGEND	
103	Install batt insulation, plywood sheathing, fluid applied weather barrier at existing exterior wood framed wall, and corrugated metal wall panel to match existing, see structural for sheathing type and attachment.
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.
109	Install interior 4" wood stud wall with gypsum board painted to match existing. See interior elevations for typical casework.
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.
113	Install portion of CPT and rubber base to match existing adjacent.
114	Install portion of VCT and rubber base to match existing adjacent.
123	Reinstall all wall mounted furnishings and equipment at original locations, typ.
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.
157	Install new plastic laminate student cubby casework, include hooks for student bags, see interior elevations.
158	Install interior 4" wood stud wall with gypsum board painted to match existing.

- FLOOR PLAN NOTES:**
- DIMENSIONS SHOWN ARE TO FACE OF STUD, FACE OF MASONRY OR CENTERLINE OF COLUMN OR GRID LINE UNLESS NOTED OTHERWISE.
  - 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.
  - MASONRY DIMENSIONS ARE NOMINAL. COORDINATE ACTUAL ROUGH OPENING MASONRY DIMENSIONS.
  - DIMENSIONS AT GLAZING ASSEMBLIES ARE TO CENTER OF ASSEMBLY UNLESS NOTED OTHERWISE.
  - 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.
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  - SEE WALL TYPES SHEET(S) FOR DEFLECTION HEAD DETAILS.

LEGEND:	
	EXISTING TO REMAIN
	NEW CONSTRUCTION
	AREA INDICATED NOT IN SCOPE

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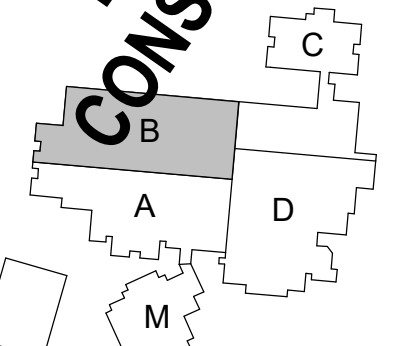
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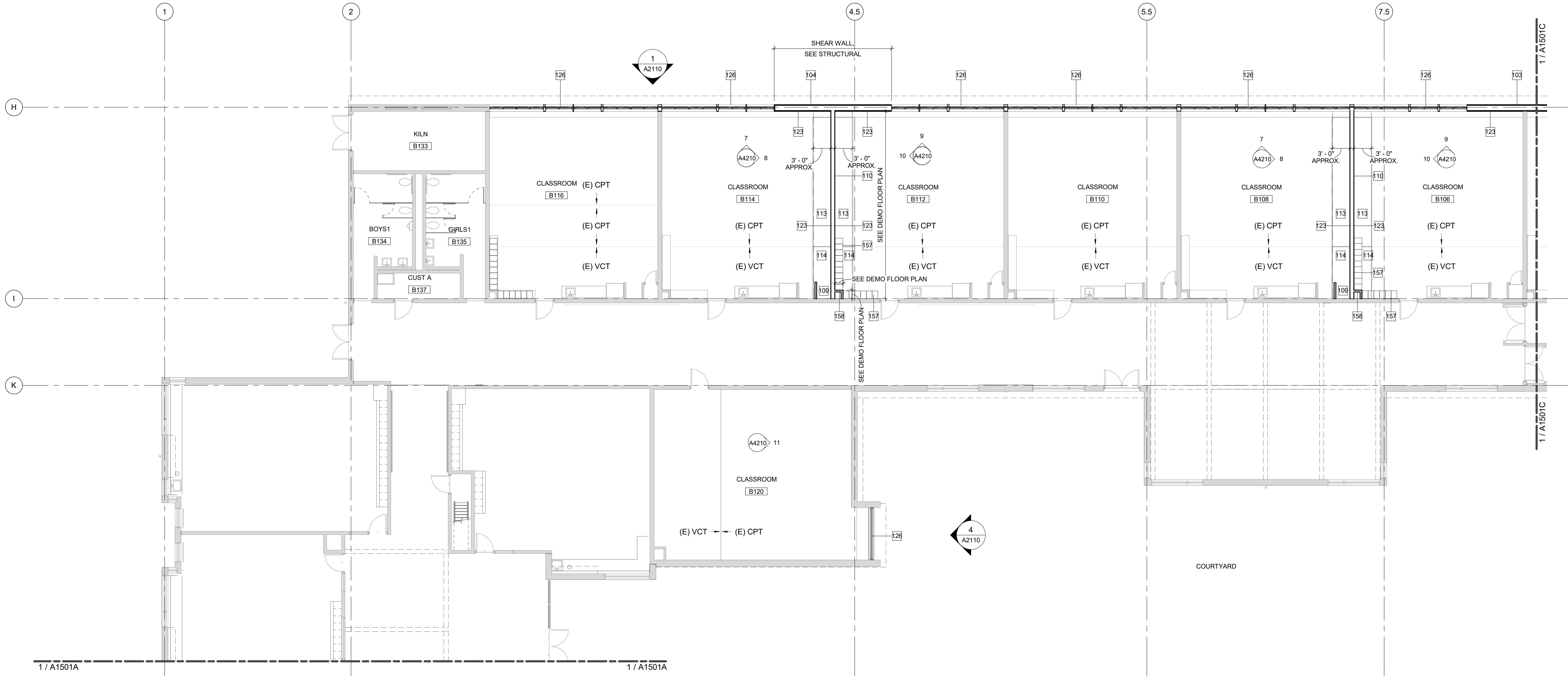
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No.	DESCRIPTION	DATE
1	SCHEMATIC DESIGN CHECKSET	10.04.19
2	100% DESIGN DEVELOPMENT	11.01.19

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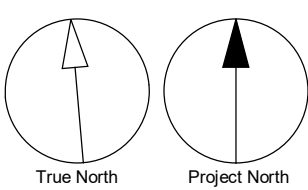
KEYPLAN



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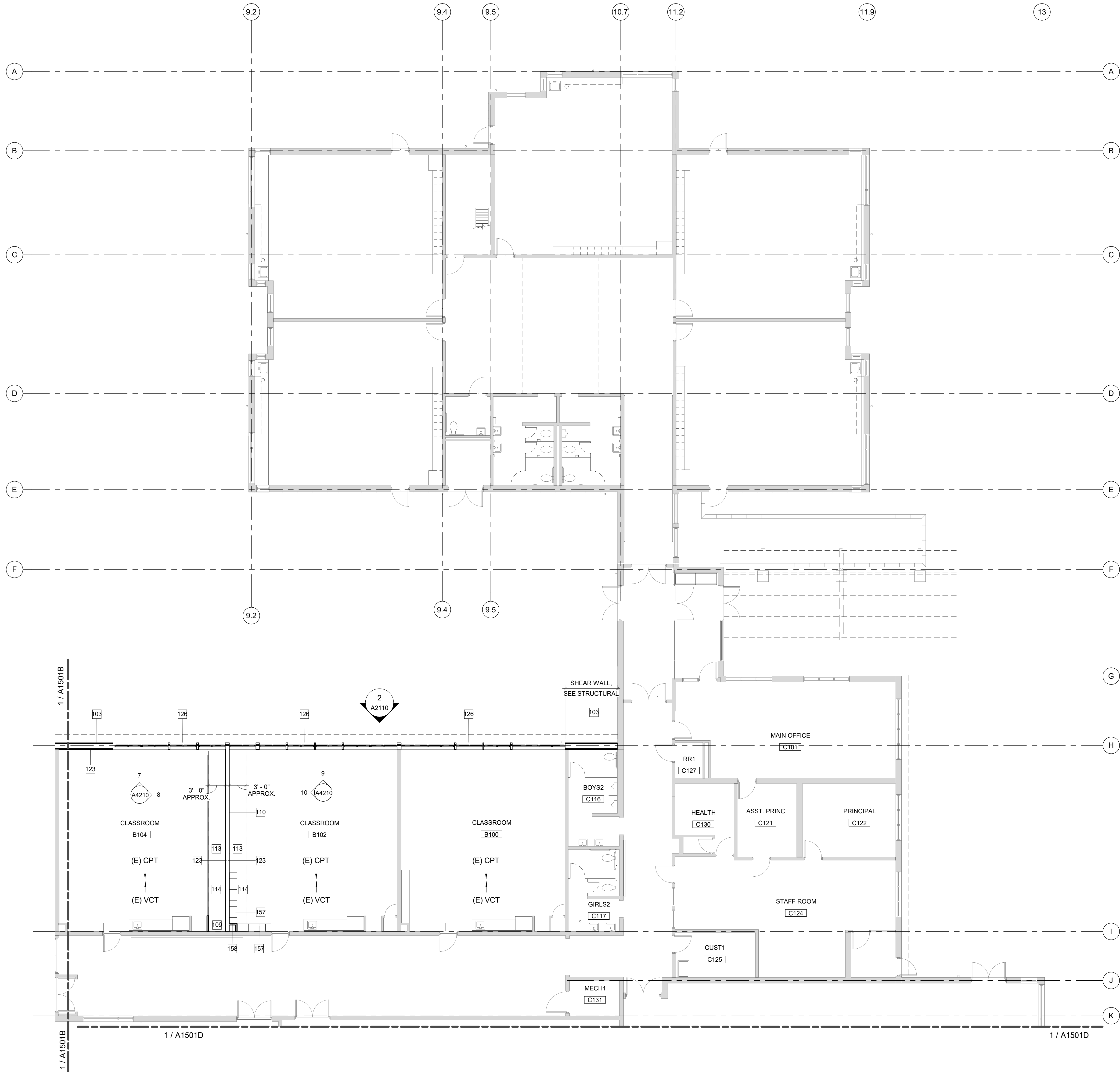


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A1501B Scale: 1/8" = 1'-0"

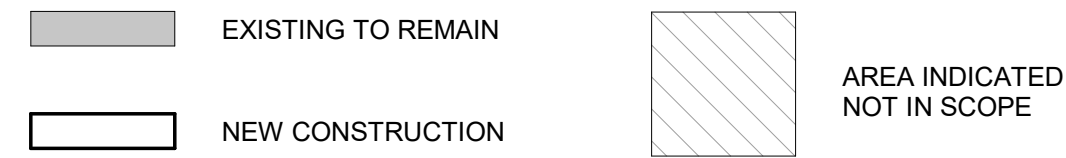


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<b>PROJECT</b> <b>Beaver Acres ES Seismic Improvements</b> 2125 SW 170th Avenue Beaverton, OR 97003	
<b>PROJECT NO:</b> 122519	
<b>DRAWN BY:</b> Author	<b>CHECKED BY:</b> Checker
<b>PROJECT MGR:</b> Designer	<b>APPROVED BY:</b> Approver
<b>SHEET TITLE</b> <b>FLOOR PLAN - LEVEL 01 - SECTOR B</b>	
<b>SHEET NUMBER</b> <b>A1501B</b>	<b>ISSUE</b> <b>2</b>

1 LEVEL 01 SECTOR PLAN - C  
A1501C Scale: 1/8" = 1'-0"



## LEGEND:



## FLOOR PLAN NOTES:

- DIMENSIONS SHOWN ARE TO FACE OF STUD, FACE OF MASONRY OR CENTERLINE OF COLUMN OR GRID LINE UNLESS NOTED OTHERWISE.
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- SEE WALL TYPES SHEET(S) FOR DEFLECTION HEAD DETAILS.

### KEYNOTE LEGEND

- |     |  |
|-----|--|
| 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.  |
| 109 | Install interior 4" wood stud wall with gypsum board painted to match existing. See interior elevations for typical casework.  |
| 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.                               |
| 113 | Install portion of CPT and rubber base to match existing adjacent.   |
| 114 | Install portion of VCT and rubber base to match existing adjacent.   |
| 123 | Reinstall all wall mounted furnishings and equipment at original locations, typ.   |
| 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. |
| 157 | Install new plastic laminate student cubby casework, include hooks for student bags, see interior elevations.  |
| 158 | Install interior 4" wood stud wall with gypsum board painted to match existing.  |

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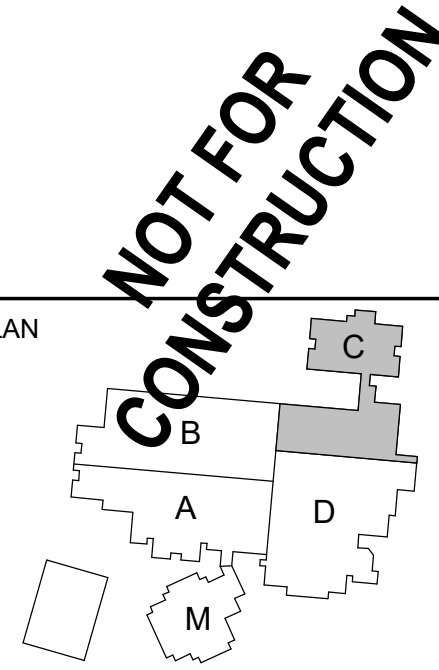
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2	100% DESIGN DEVELOPMENT	11.01.19

### KEYPLAN



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### PRIME CONSULTANT



### PROJECT

**Beaver Acres ES Seismic Improvements**  
2125 SW 170th Avenue  
Beaverton, OR 97003

### PROJECT NO:

122519

### DRAWN BY:

Author

### CHECKED BY:

Checker

### PROJECT MGR:

Designer

### APPROVED BY:

Approver

### SHEET TITLE

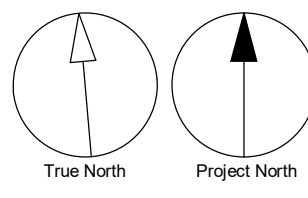
**FLOOR PLAN - LEVEL 01 - SECTOR C**

### SHEET NUMBER

**A1501C**

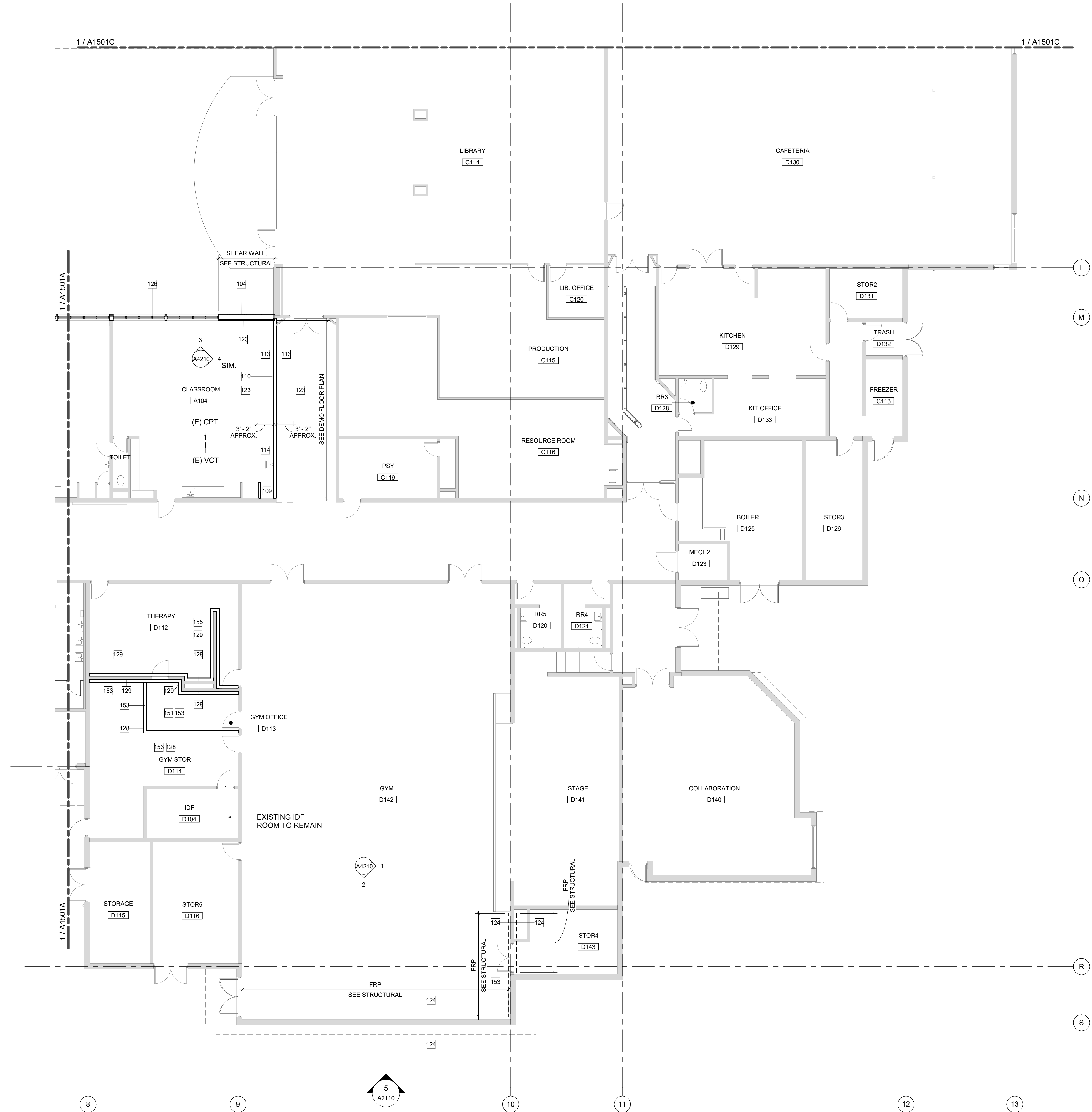
### ISSUE

**2**





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1 LEVEL 01 SECTOR PLAN - D  
A1501D Scale: 1/8" = 1'-0"

## LEGEND:

- EXISTING TO REMAIN  
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## FLOOR PLAN NOTES:

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- CONFIRM ALL ROUGH OPENING DIMENSIONS FOR DOORS AND WINDOWS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- WHERE A LENGTH OF WALL IS INTERSECTED BY PERPENDICULAR WALLS, WALL TYPE TO BE CONTINUOUS BETWEEN TAGS UNLESS NOTED OTHERWISE.
- PROVIDE SOLID BLOCKING BETWEEN ROOF JOISTS WHERE WALL RUNS PERPENDICULAR TO ROOF JOISTS. GYPSUM BOARD TO TERMINATE AT ROOF JOISTS.
- SEE WALL TYPES SHEET(S) FOR DEFLECTION HEAD DETAILS.

## KEYNOTE LEGEND

- 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.
- 109 Install interior 4" wood stud wall with gypsum board painted to match existing. See interior elevations for typical casework.
- 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.
- 113 Install portion of CPT and rubber base to match existing adjacent.
- 114 Install portion of VCT and rubber base to match existing adjacent.
- 123 Reinstall all wall mounted furnishings and equipment at original locations, typ.
- 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.
- 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.
- 128 Install 6" metal stud partition wall with gypsum board on both sides painted to match adjacent.
- 129 Existing interior CMU wall to remain. Install 6" metal stud wall with gypsum board painted to match existing to one or both sides of existing CMU wall.
- 151 Patch and replace ceiling finishes to match adjacent existing ceiling.
- 153 Install rubber base to match existing adjacent.
- 155 Install plastic laminate cap at partition wall.

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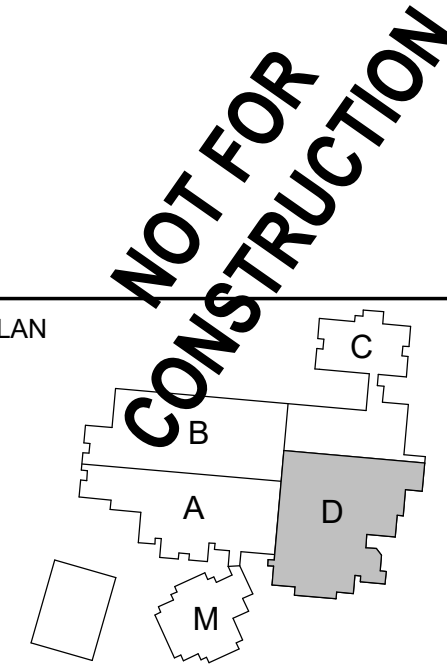
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907 SW Harvey Milk Street  
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tel 503 226 6950 fax 503 273 9192  
ibjgroup@edgme.com

**PROJECT**  
**Beaver Acres ES Seismic Improvements**  
2125 SW 170th Avenue  
Beaverton, OR 97003

**PROJECT NO:**  
122519

**DRAWN BY:**  
Author

**CHECKED BY:**  
Checker

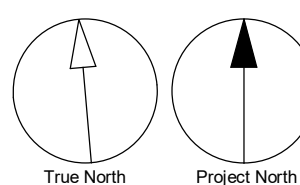
**PROJECT MGR:**  
Designer

**APPROVED BY:**  
Approver

**SHEET TITLE**  
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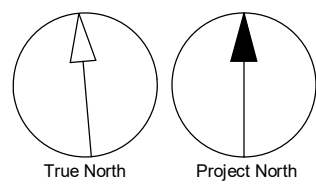
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**A1501D**

**ISSUE**  
**2**



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1/19





FLOOR PLAN NOTES:

- | 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.                    |

147	Strapping and seismic strengthening at existing floor diaphragm, see structural.
162	Install CPT and rubber base to match existing in entire room.

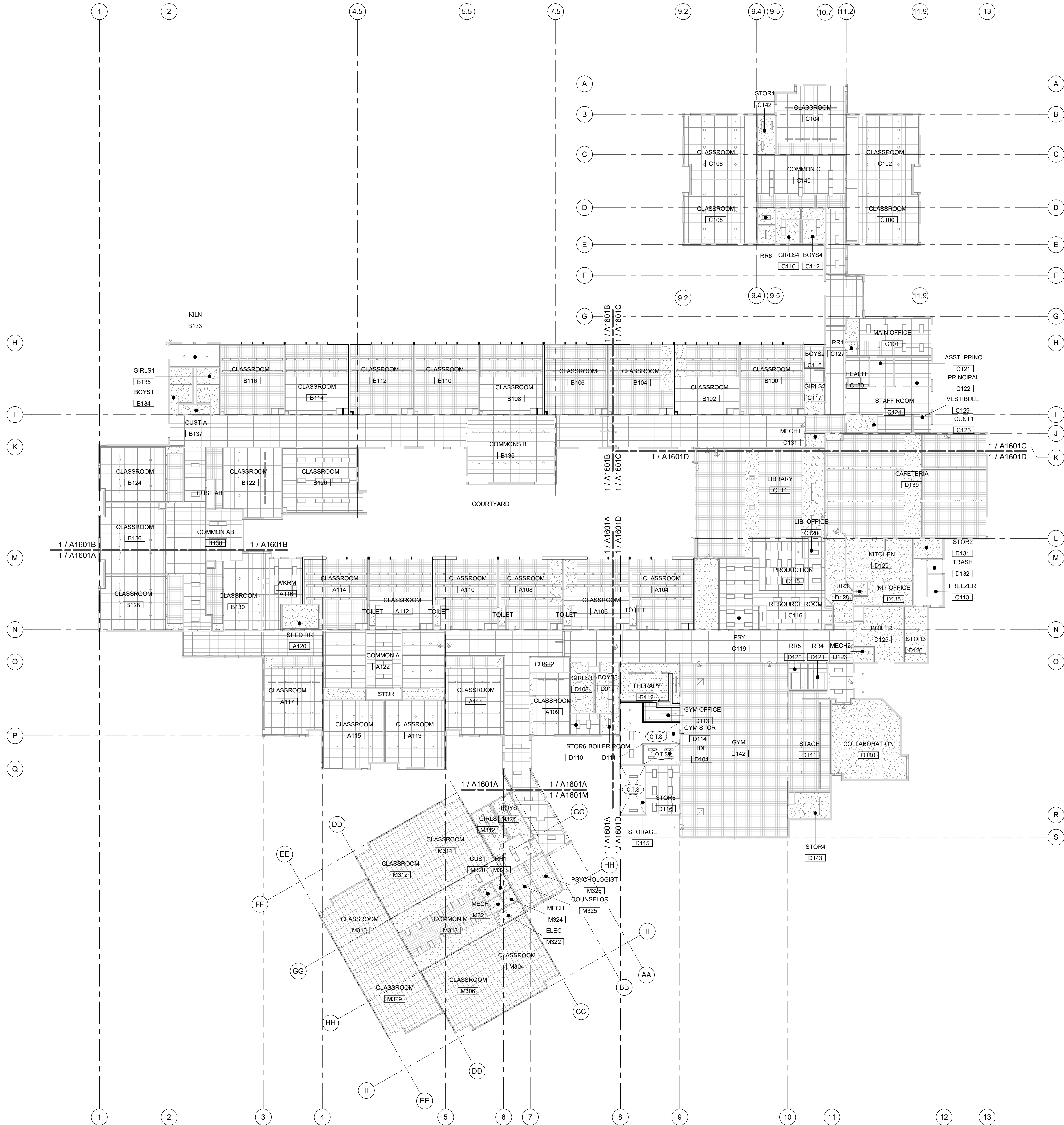
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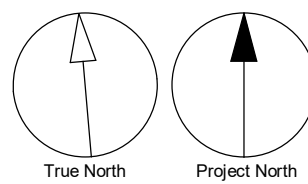
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1 LEVEL 01 REFLECTED CEILING PLAN - OVERALL  
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Portland, OR 97205, USA  
tel 503 226 6950 fax 503 273 9192  
ibigroup-usa.com

PROJECT

**Beaver Acres ES Seismic Improvements**  
2125 SW 170th Avenue  
Beaverton, OR 97003

PROJECT NO: 122519	
DRAWN BY: Author	CHECKED BY: Checker
PROJECT MGR: Designer	APPROVED BY: Approver

SHEET TITLE

REFLECTED CEILING PLAN -  
LEVEL 01 - OVERALL

SHEET NUMBER	ISSUE
A1601	2

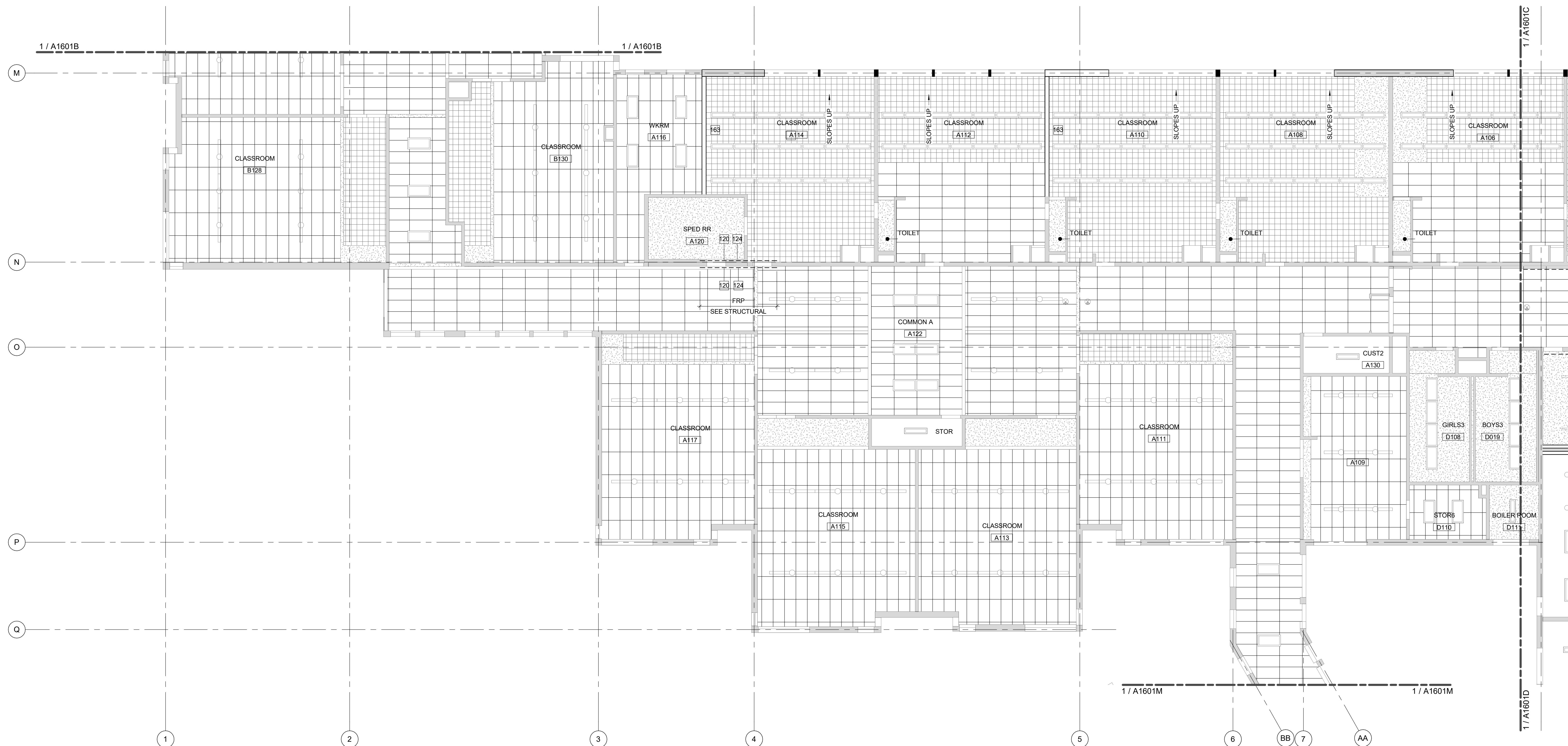
SCALE: ARCH

1/8" = 1'-0"

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1/19

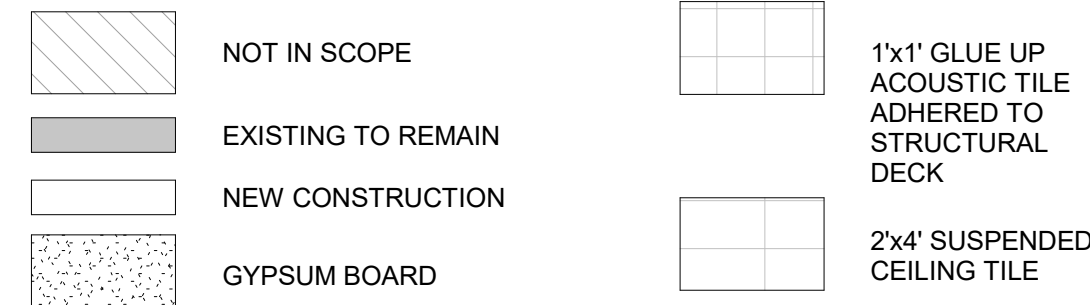




1 LEVEL 01 REFLECTED CEILING SECTOR PLAN - A  
A1601A Scale: 1/8" = 1'-0"

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

LEGEND:



## 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 LEAST 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

120	Prepare wall surfaces per fiber reinforced polymer (FRP) manufacturer's instructions on both sides of wall.
-----	---

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.
-----	---

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

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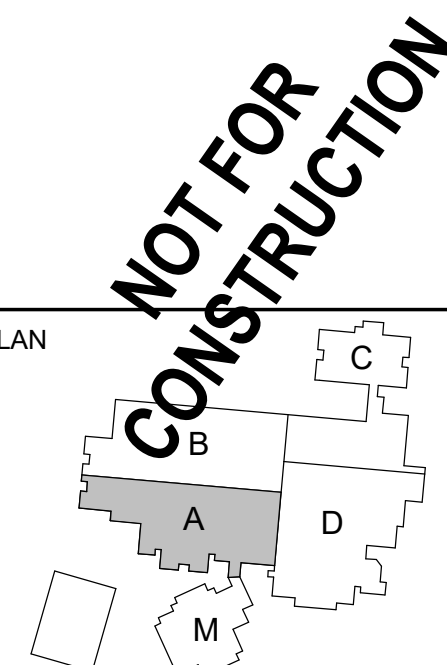
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## ISSUES

No.	DESCRIPTION	DATE
1	SCHEMATIC DESIGN CHECKSET	10.04.19
2	100% DESIGN DEVELOPMENT	11.01.19

KEYPLAN



## CONSULTANTS

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## PROJECT

**Beaver Acres ES Seismic Improvements**  
2125 SW 170th Avenue  
Beaverton, OR 97003

PROJECT NO.  
122519

DRAWN BY:  
**Author**

PROJECT MG  
Designer

SHEET TITLE  
**REFLECTED CEILING PLAN -  
LEVEL 01 - SECTOR A**

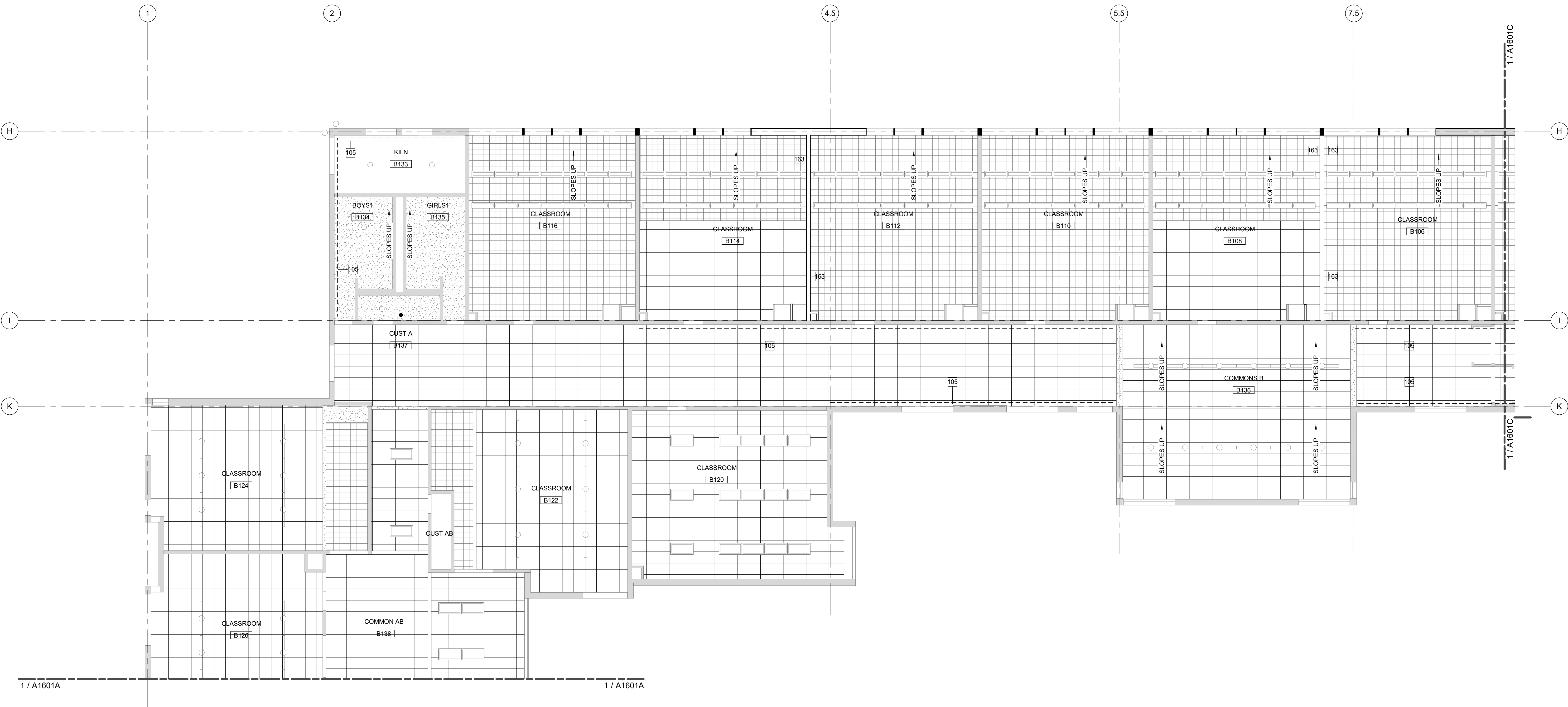
SHEET NUMBER

A1601A

ISSUE

ISSUE  
2





1 LEVEL 01 REFLECTED CEILING SECTOR PLAN - B  
A1601B Scale: 1/8" = 1'-0"

### LEGEND:

	NOT IN SCOPE		1x1' GLUE UP ACOUSTIC TILE ADHERED TO STRUCTURAL DECK
	EXISTING TO REMAIN		2x4' SUSPENDED CEILING TILE
	NEW CONSTRUCTION		
	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.
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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.
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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.

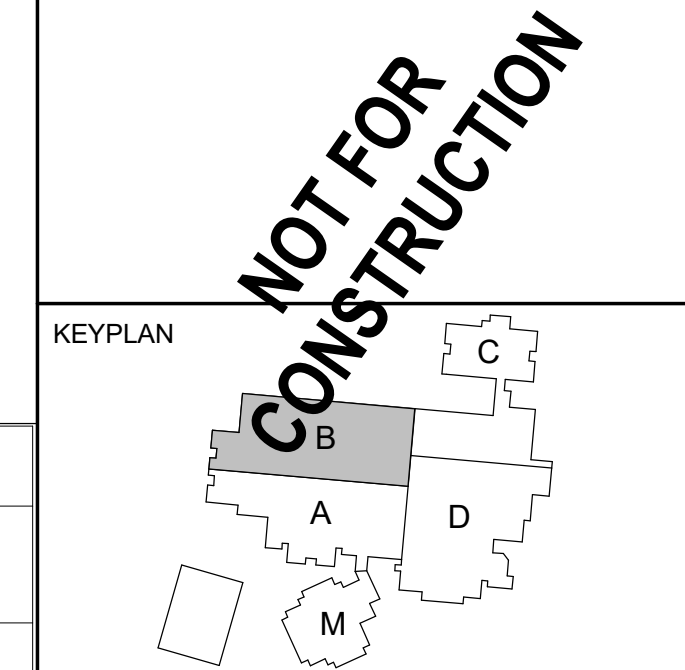
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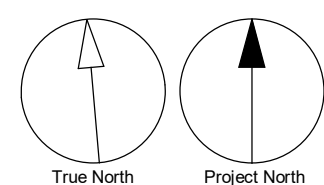
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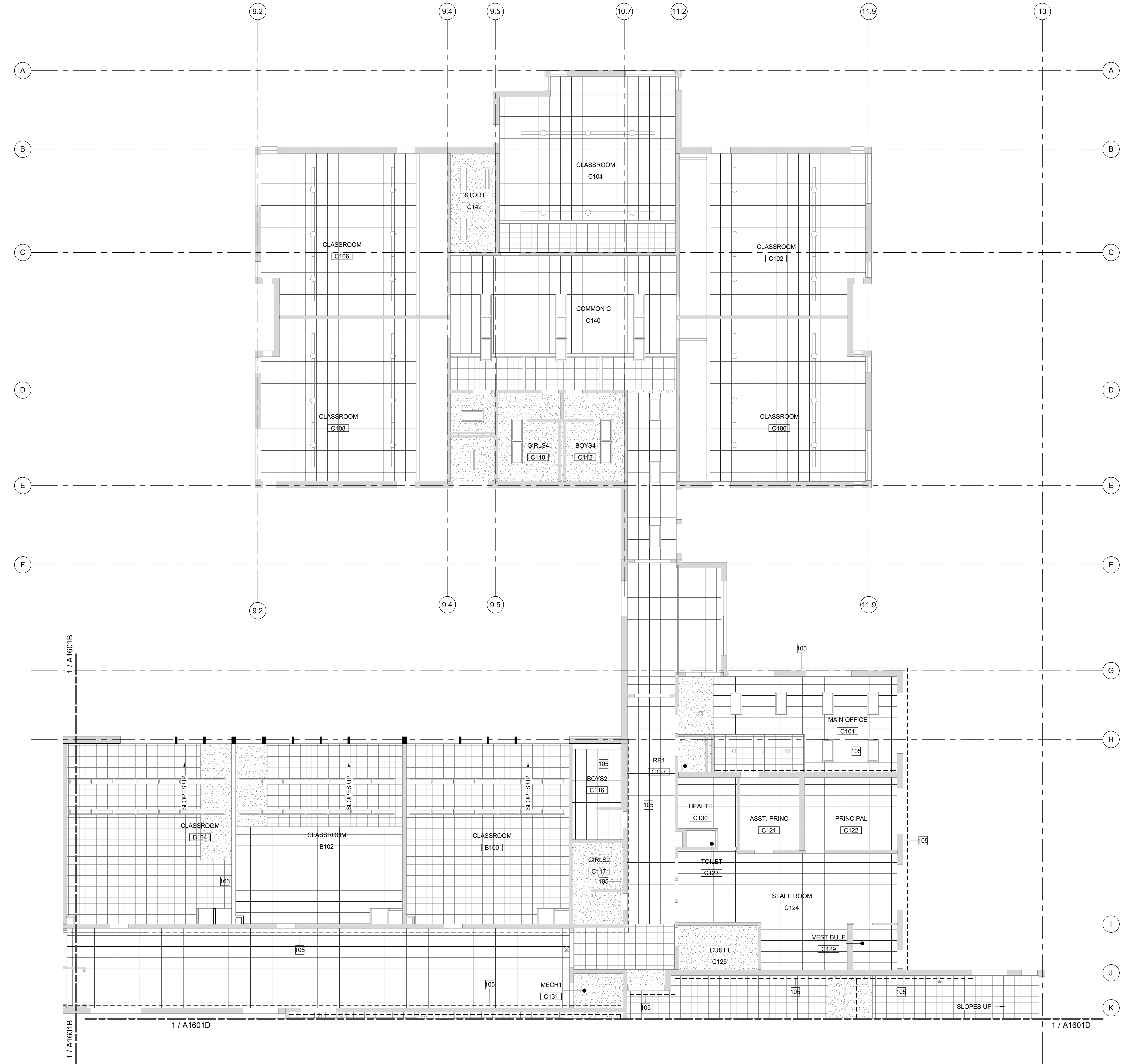
PROJECT  
**Beaver Acres ES Seismic Improvements**  
2125 SW 170th Avenue  
Beaverton, OR 97003

PROJECT NO: 122519	
DRAWN BY: Author	CHECKED BY: Checker
PROJECT MGR: Designer	APPROVED BY: Approver

SHEET TITLE  
**REFLECTED CEILING PLAN - LEVEL 01 - SECTOR B**

SHEET NUMBER <b>A1601B</b>	ISSUE <b>2</b>
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1 LEVEL 01 REFLECTED CEILING SECTOR PLAN - C  
A1601C Scale: 1/8" = 1'-0"

## LEGEND:

	NOT IN SCOPE		1x1" GLUE UP ACOUSTIC TILE ADHERED TO STRUCTURAL DECK
	EXISTING TO REMAIN		2x4" SUSPENDED CEILING TILE
	NEW CONSTRUCTION		
	GYPSUM BOARD		

## RCP NOTES:

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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.

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2	100% DESIGN DEVELOPMENT	11.01.19

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PRIME CONSULTANT

IBI GROUP  
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ibigroup-usa.com

PROJECT

**Beaver Acres ES Seismic Improvements**  
2125 SW 170th Avenue  
Beaverton, OR 97003

PROJECT NO:  
122519

DRAWN BY:  
Author

CHECKED BY:  
Checker

PROJECT MGR:  
Designer

APPROVED BY:  
Approver

SHEET TITLE

**REFLECTED CEILING PLAN -  
LEVEL 01 - SECTOR C**

SHEET NUMBER

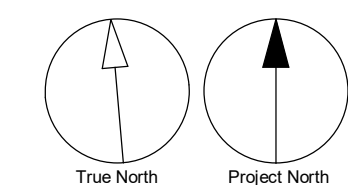
**A1601C**

ISSUE

**2**

SCALE: AS SHOWN

1" = 1'







1 LEVEL 01 REFLECTED CEILING SECTOR PLAN - D  
A1601D Scale: 1/8" = 1'-0"

### LEGEND:

	NOT IN SCOPE		1'x1' GLUE UP ACOUSTIC TILE ADHERED TO STRUCTURAL DECK
	EXISTING TO REMAIN		2'x4' SUSPENDED CEILING TILE
	NEW CONSTRUCTION		
	GYPSUM BOARD		

### RCP NOTES:

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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.
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#### 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 1'x1 glue up tile to match existing as needed for adjacent shear wall construction.

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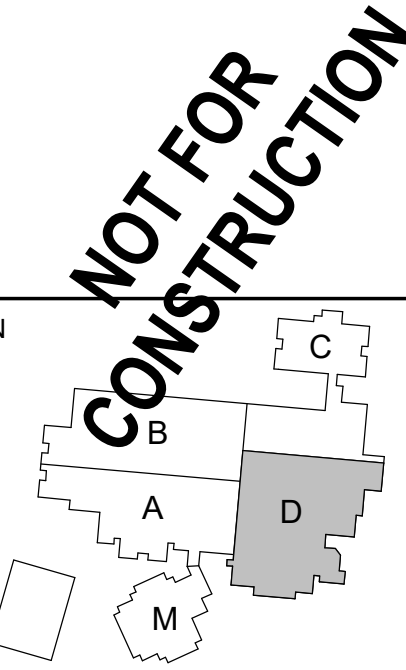


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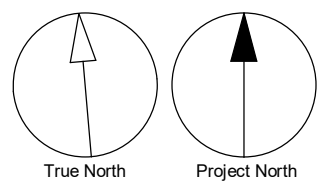
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**PROJECT**  
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Beaverton, OR 97003

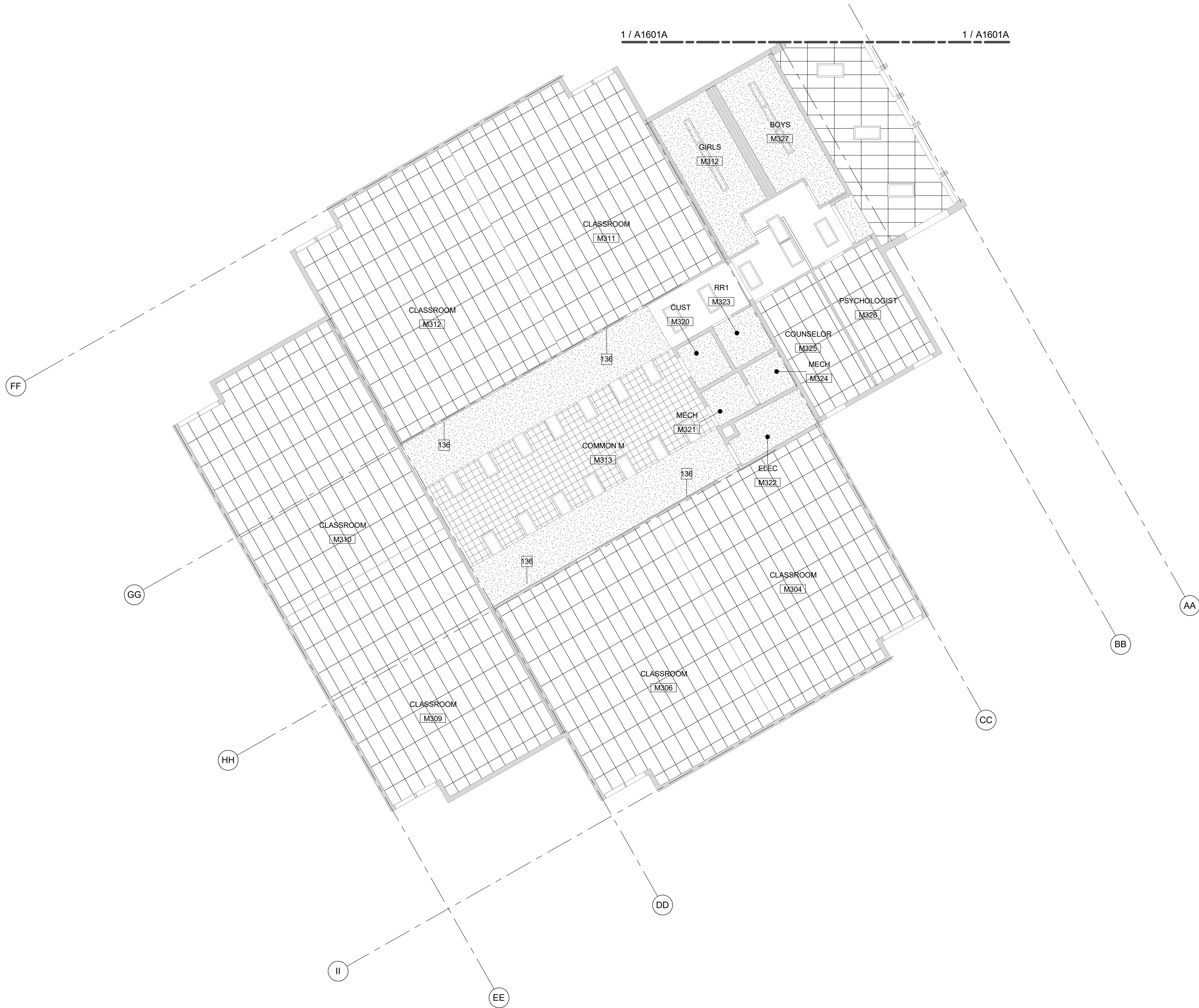
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122519  
**DRAWN BY:**  
Author  
**CHECKED BY:**  
Checker  
**PROJECT MGR:**  
Designer  
**APPROVED BY:**  
Approver

**SHEET TITLE**  
**REFLECTED CEILING PLAN - LEVEL 01 - SECTOR D**

**SHEET NUMBER**  
**A1601D**  
**ISSUE**  
**2**







1 LEVEL 01 REFLECTED CEILING SECTOR PLAN - M  
A1601M Scale: 1/8" = 1'-0"

### LEGEND:

	NOT IN SCOPE		1'x1' GLUE UP ACOUSTIC TILE ADHERED TO STRUCTURAL DECK
	EXISTING TO REMAIN		2'x4' SUSPENDED CEILING TILE
	NEW CONSTRUCTION		
	GYPSUM BOARD		

### RCP NOTES:

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

#### 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.

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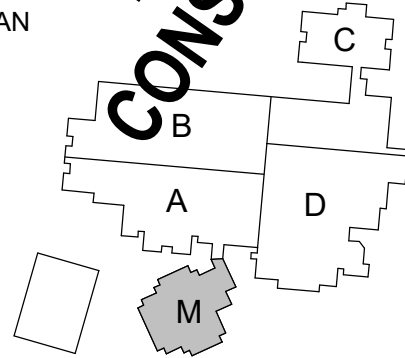
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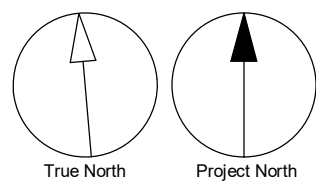


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**Beaver Acres ES Seismic Improvements**  
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Beaverton, OR 97003

PROJECT NO: 122519	CHECKED BY: Checker
DRAWN BY: Author	APPROVED BY: Approver
PROJECT MGR: Designer	

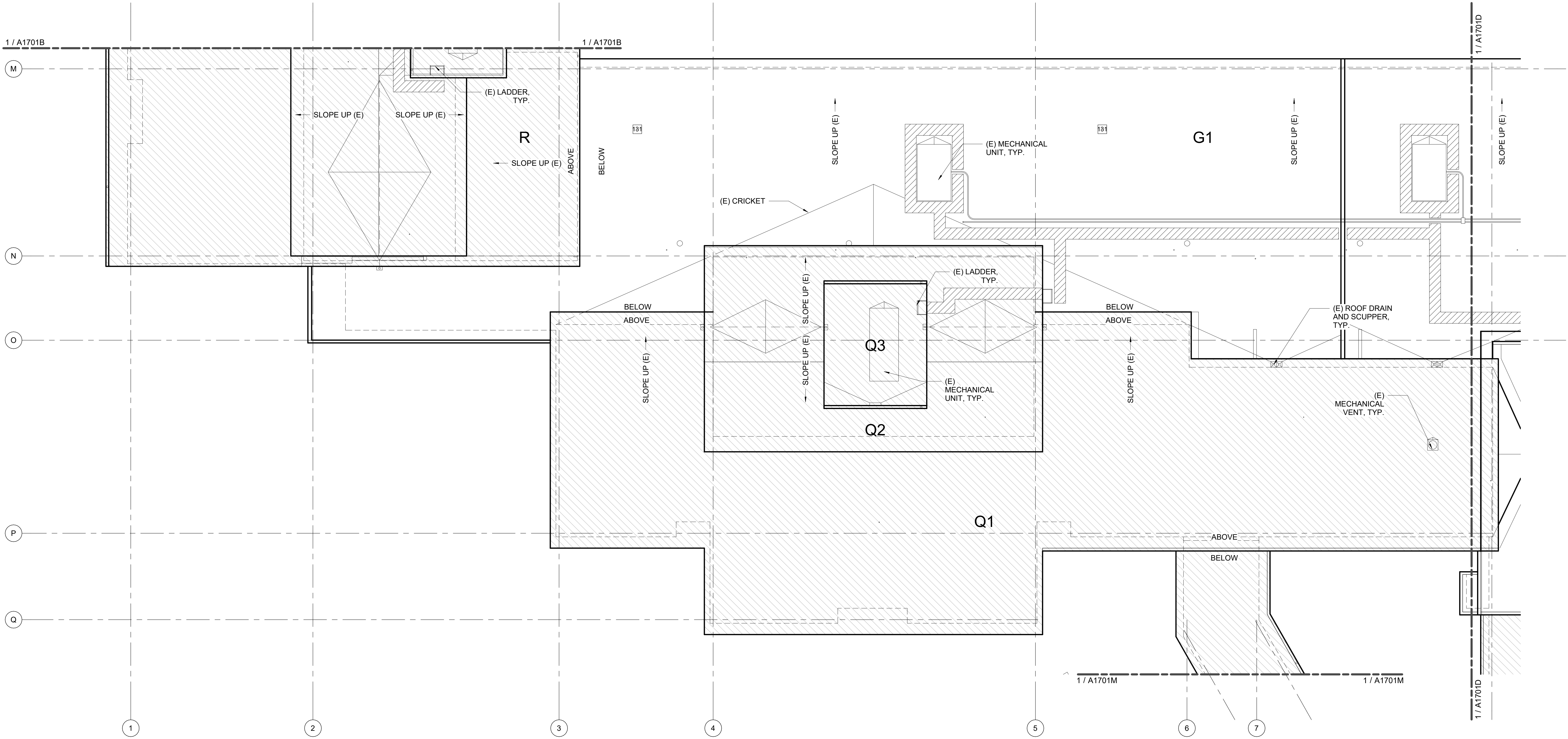
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**REFLECTED CEILING PLAN - LEVEL 01 - SECTOR M**

SHEET NUMBER <b>A1601M</b>	ISSUE <b>2</b>
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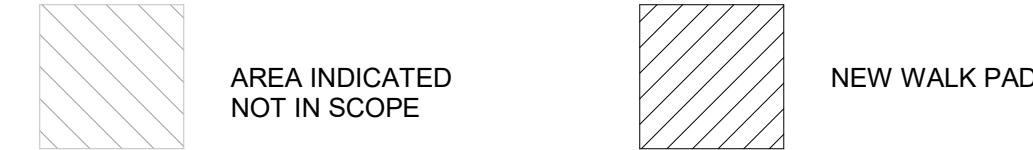


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1 ROOF PLAN - SECTOR A  
A1701A Scale: 1/8" = 1'-0"

LEGEND:



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.

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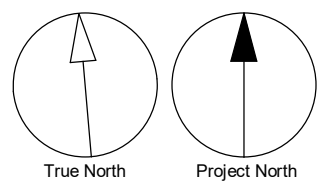
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PROJECT  
**Beaver Acres ES Seismic Improvements**  
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Beaverton, OR 97003

PROJECT NO: 122519	
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PROJECT MGR: Designer	APPROVED BY: Approver

SHEET TITLE  
**ROOF PLAN - SECTOR A**

SHEET NUMBER <b>A1701A</b>	ISSUE <b>2</b>
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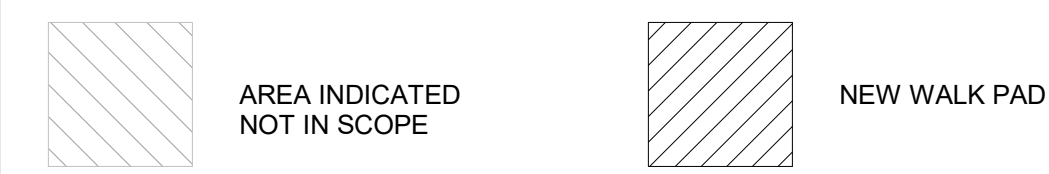


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LEGEND:



ROOF PLAN NOTES:

1. ALL ELEVATIONS REFERENCED FROM FINISHED FLOOR, UNLESS NOTED OTHERWISE.
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3. LOADING OF CONSTRUCTION MATERIALS SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT.

KEYNOTE LEGEND

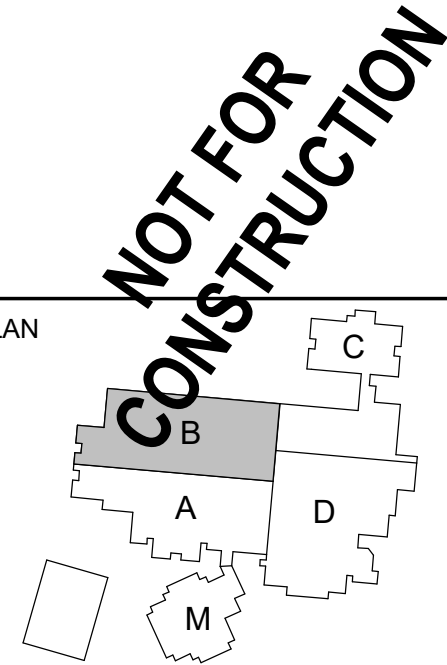
- 131 Install 60-mil fully adhered EPDM roofing system, sheathing, insulation, and associated flashings. Replace associated crickets to match existing slope. See structural for sheathing and connections. See roof consultant drawings for roof assembly description. Existing mechanical unit to remain, see mechanical for unit handling.
- 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.

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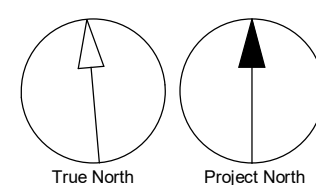


PROJECT  
**Beaver Acres ES Seismic Improvements**  
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Beaverton, OR 97003

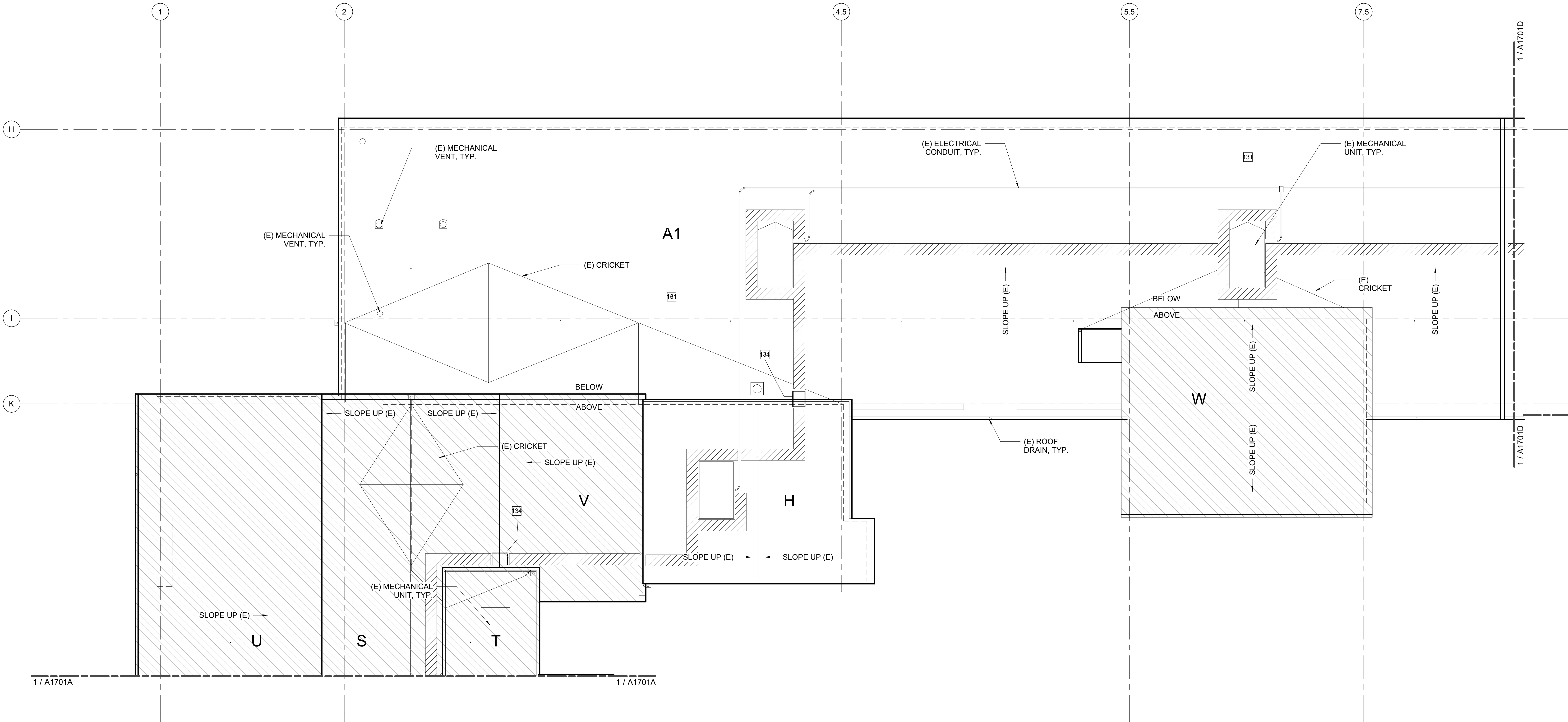
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PROJECT MGR: Designer	APPROVED BY: Approver

SHEET TITLE  
**ROOF PLAN - SECTOR B**

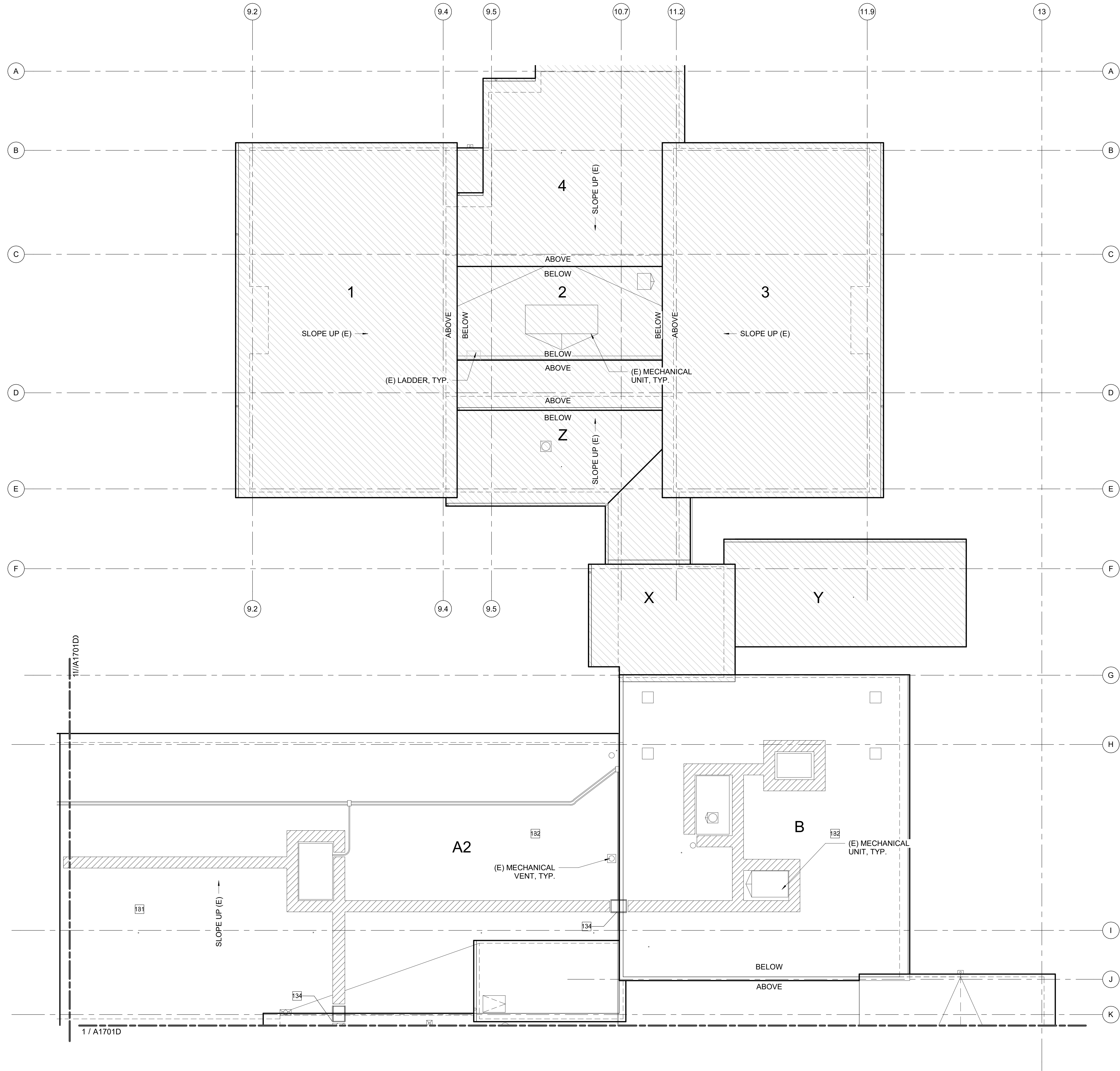
SHEET NUMBER <b>A1701B</b>	ISSUE <b>2</b>
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1 ROOF PLAN - SECTOR B  
A1701B Scale: 1/8" = 1'-0"

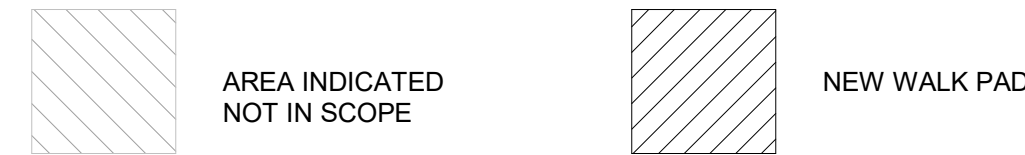






1 ROOF PLAN - SECTOR C  
A1701C Scale: 1/8" = 1'-0"

LEGEND:



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 ladders to wall, where there is no wall to attach ladder to use a prefab step.

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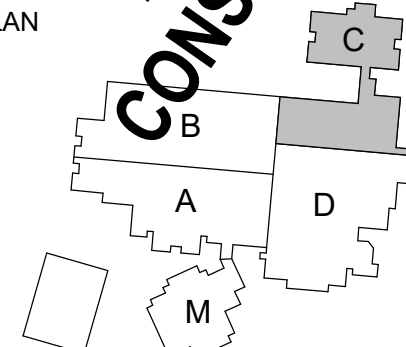
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ISSUES		
No.	DESCRIPTION	DATE
1	SCHEMATIC DESIGN CHECKSET	10.04.19
2	100% DESIGN DEVELOPMENT	11.01.19

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KEYPLAN



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PRIME CONSULTANT



PROJECT  
**Beaver Acres ES Seismic Improvements**  
2125 SW 170th Avenue  
Beaverton, OR 97003

PROJECT NO:  
122519

DRAWN BY:  
Author

CHECKED BY:  
Checker

PROJECT MGR:  
Designer

APPROVED BY:  
Approver

SHEET TITLE

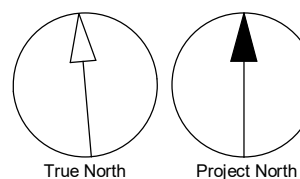
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SHEET NUMBER

**A1701C**

ISSUE

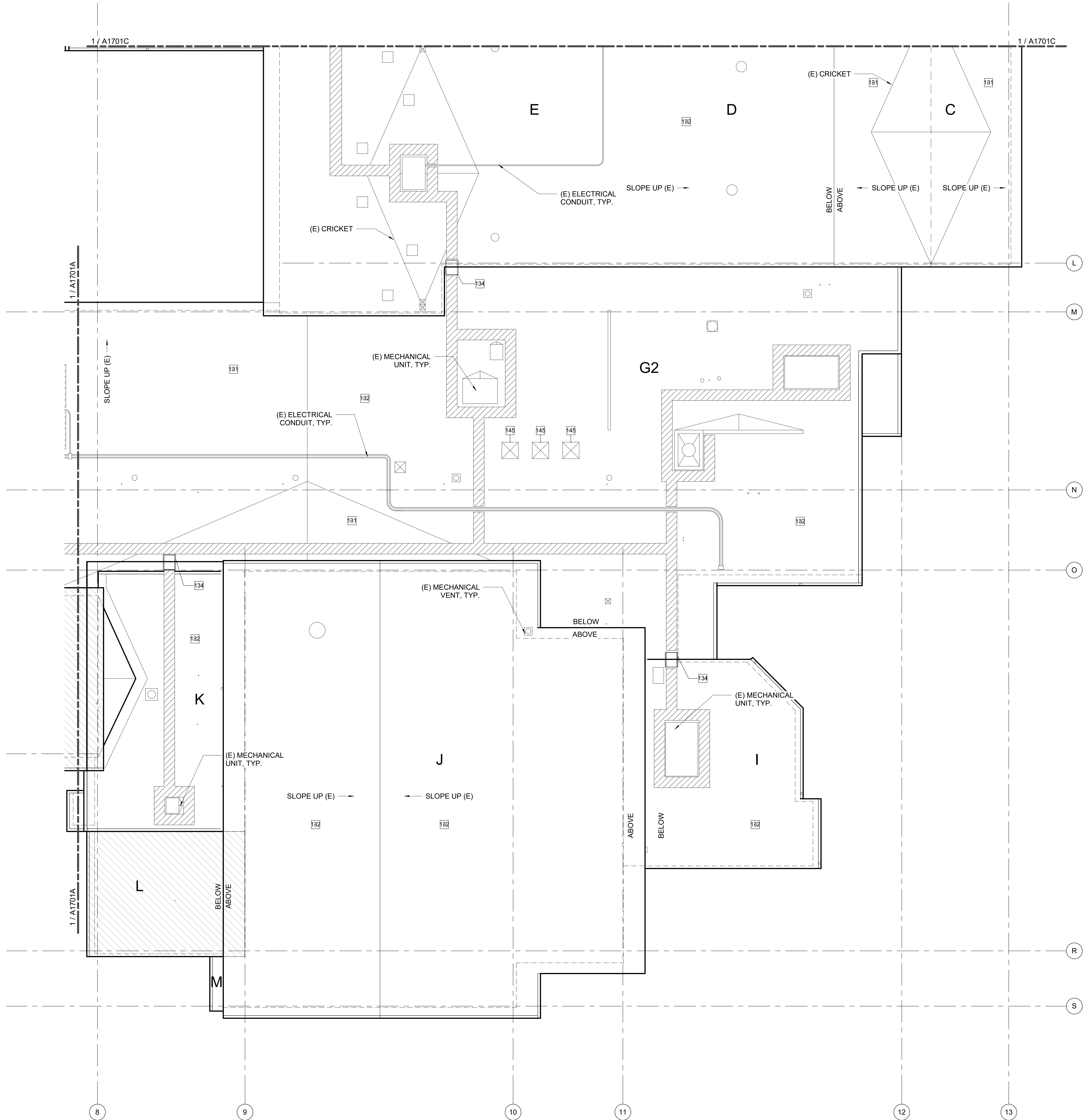
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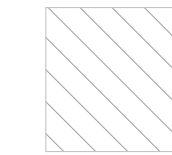


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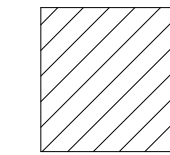
1 ROOF PLAN - SECTOR D  
A1701D/ Scale: 1/8" = 1'-0"



#### LEGEND:



AREA INDICATED  
NOT IN SCOPE



NEW WALK PAD

#### ROOF PLAN NOTES:

- ALL ELEVATIONS REFERENCED FROM FINISHED FLOOR, UNLESS NOTED OTHERWISE.
- NOT ALL ROOF PENETRATIONS ARE SHOWN. COORDINATE WITH STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL ROOF PENETRATIONS.
- 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 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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Beaverton School District



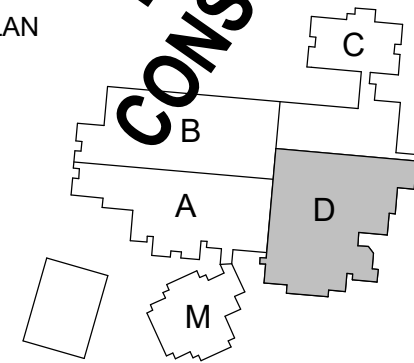
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ISSUES		
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1	SCHEMATIC DESIGN CHECKSET	10.04.19
2	100% DESIGN DEVELOPMENT	11.01.19

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**PROJECT**  
**Beaver Acres ES Seismic Improvements**  
2125 SW 170th Avenue  
Beaverton, OR 97003

**PROJECT NO:**  
122519

**DRAWN BY:**  
Author

**CHECKED BY:**  
Checker

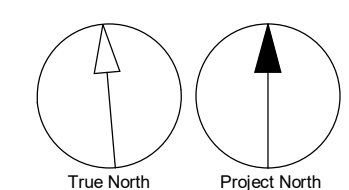
**PROJECT MGR:**  
Designer

**APPROVED BY:**  
Approver

**SHEET TITLE**  
**ROOF PLAN - SECTOR D**

**SHEET NUMBER**  
**A1701D**

**ISSUE**  
**2**



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

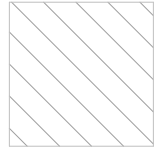


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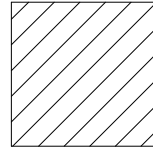
1 ROOF PLAN - SECTOR M  
A1701M/ Scale: 1/8" = 1'-0"



## LEGEND:



AREA INDICATED  
NOT IN SCOPE



NEW WALK PAD

## ROOF PLAN NOTES:

- ALL ELEVATIONS REFERENCED FROM FINISHED FLOOR, UNLESS NOTED OTHERWISE.
- NOT ALL ROOF PENETRATIONS ARE SHOWN. COORDINATE WITH STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL ROOF PENETRATIONS.
- 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.

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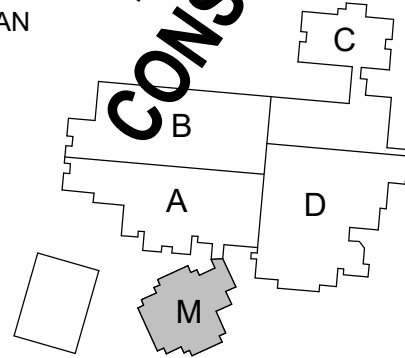
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## ISSUES

No.	DESCRIPTION	DATE
1	SCHEMATIC DESIGN CHECKSET	10.04.19
2	100% DESIGN DEVELOPMENT	11.01.19

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## CONSULTANTS

## SEAL

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## PROJECT

**Beaver Acres ES Seismic Improvements**  
2125 SW 170th Avenue  
Beaverton, OR 97003

PROJECT NO:  
122519

DRAWN BY:  
Author

CHECKED BY:  
Checker

PROJECT MGR:  
Designer

APPROVED BY:  
Approver

## SHEET TITLE

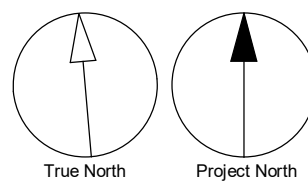
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SHEET NUMBER

**A1701M**

ISSUE

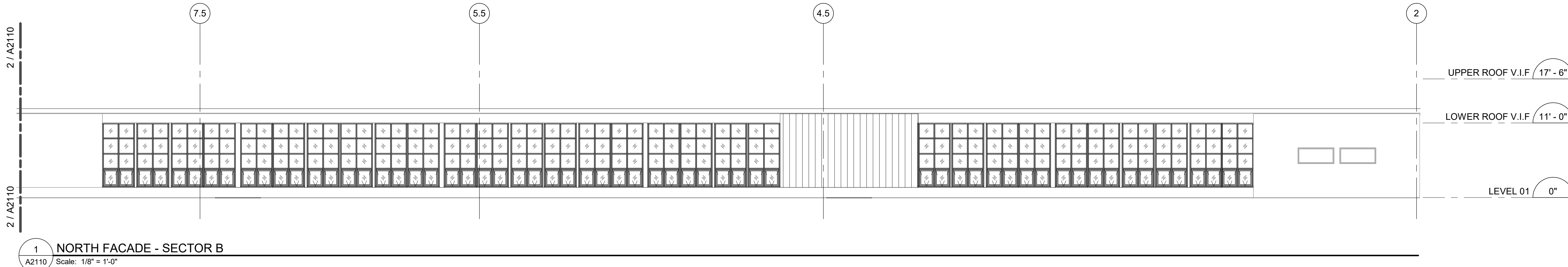
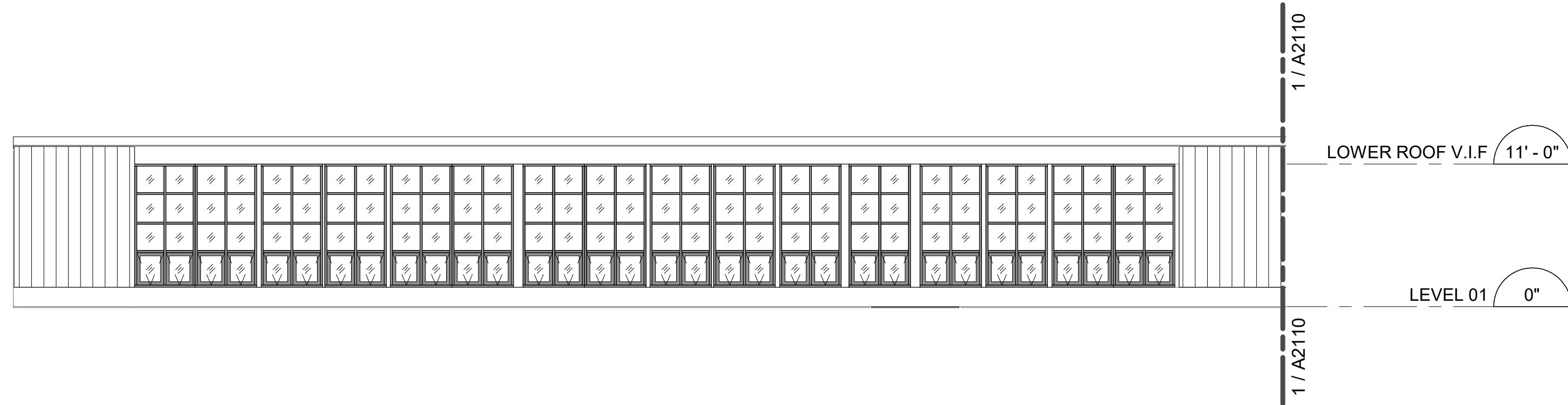
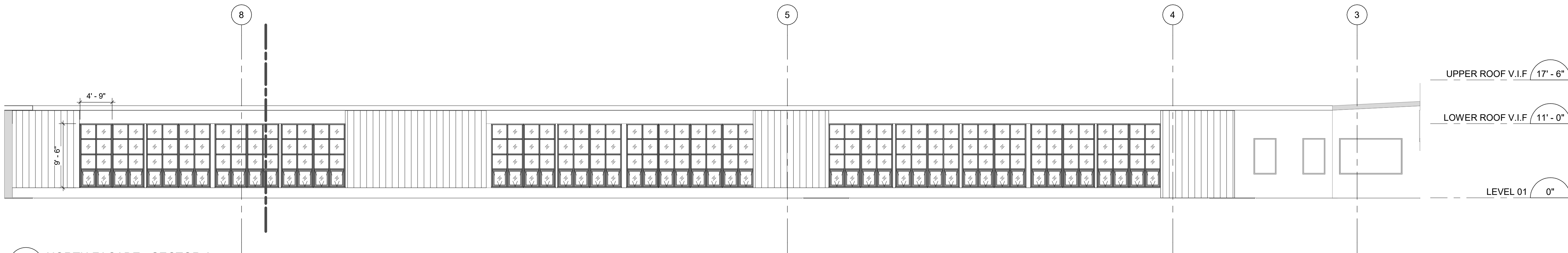
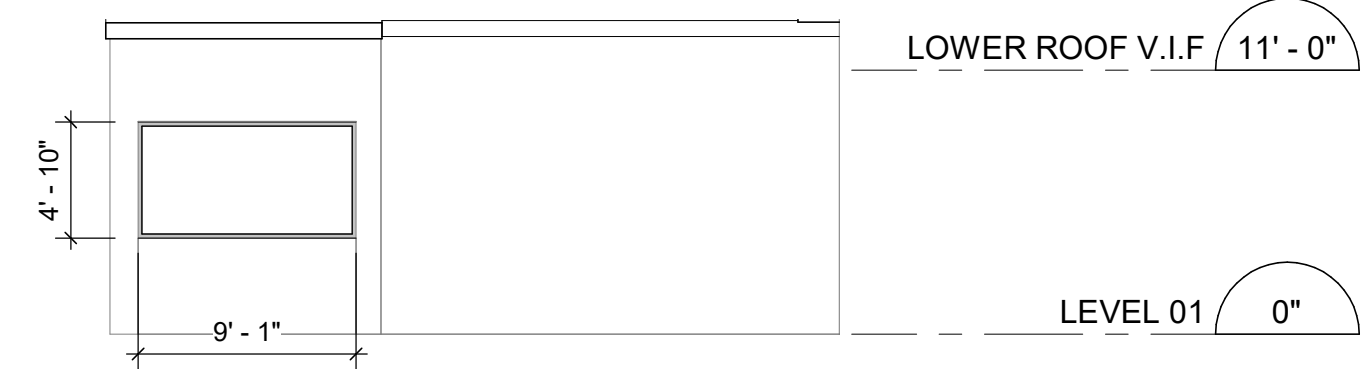
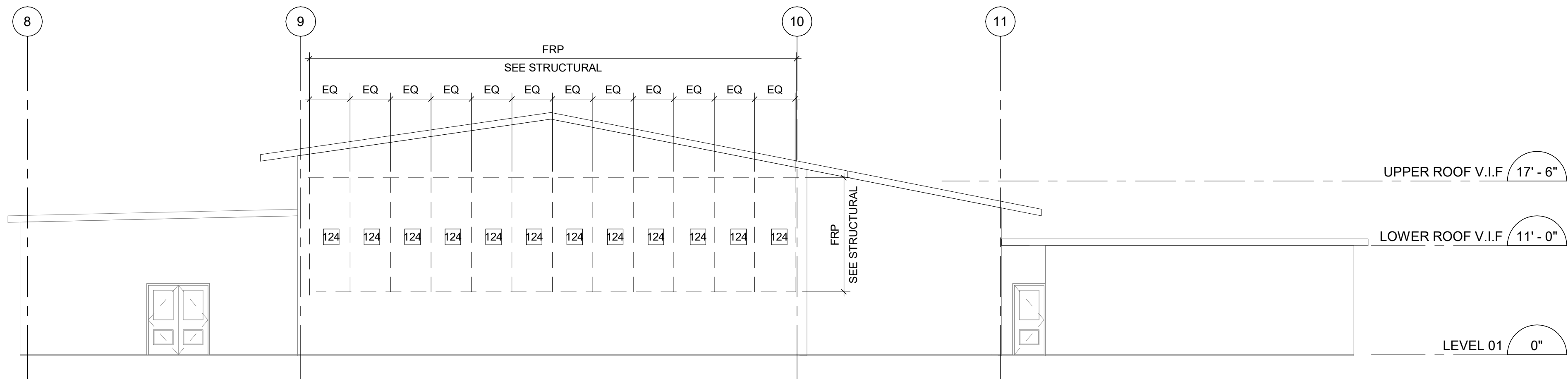
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1/19



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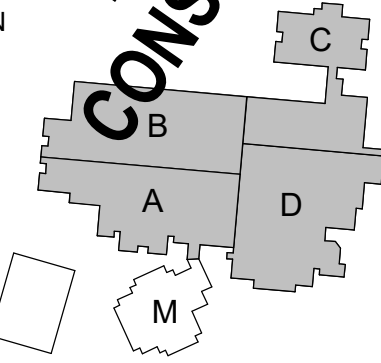
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ISSUES		DATE
No.	DESCRIPTION	
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IBI GROUP  
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Portland, OR 97205, USA  
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**PROJECT**  
**Beaver Acres ES Seismic Improvements**  
2125 SW 170th Avenue  
Beaverton, OR 97003

PROJECT NO: 122519	
DRAWN BY: Author	CHECKED BY: Checker
PROJECT MGR: Designer	APPROVED BY: Approver

SHEET TITLE  
**BUILDING ELEVATIONS**

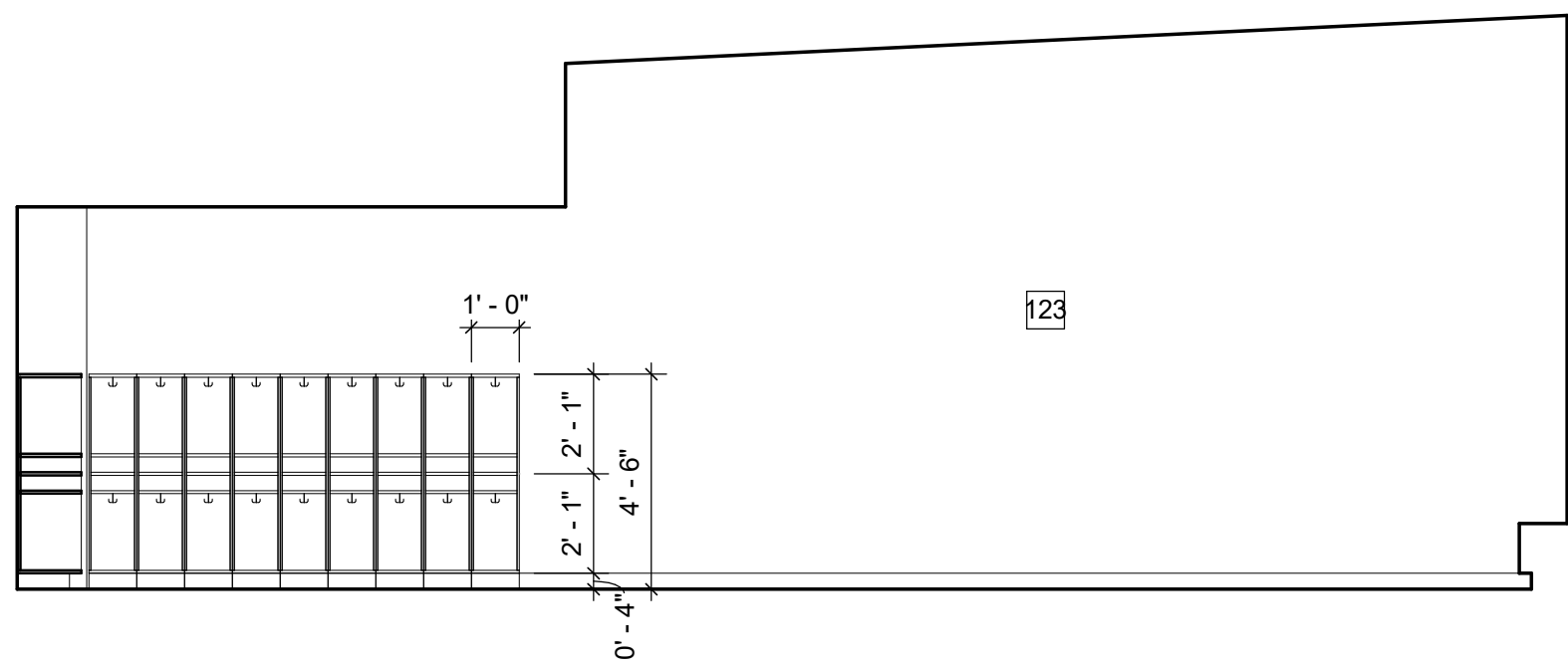
SHEET NUMBER  
**A2110**

ISSUE  
**2**

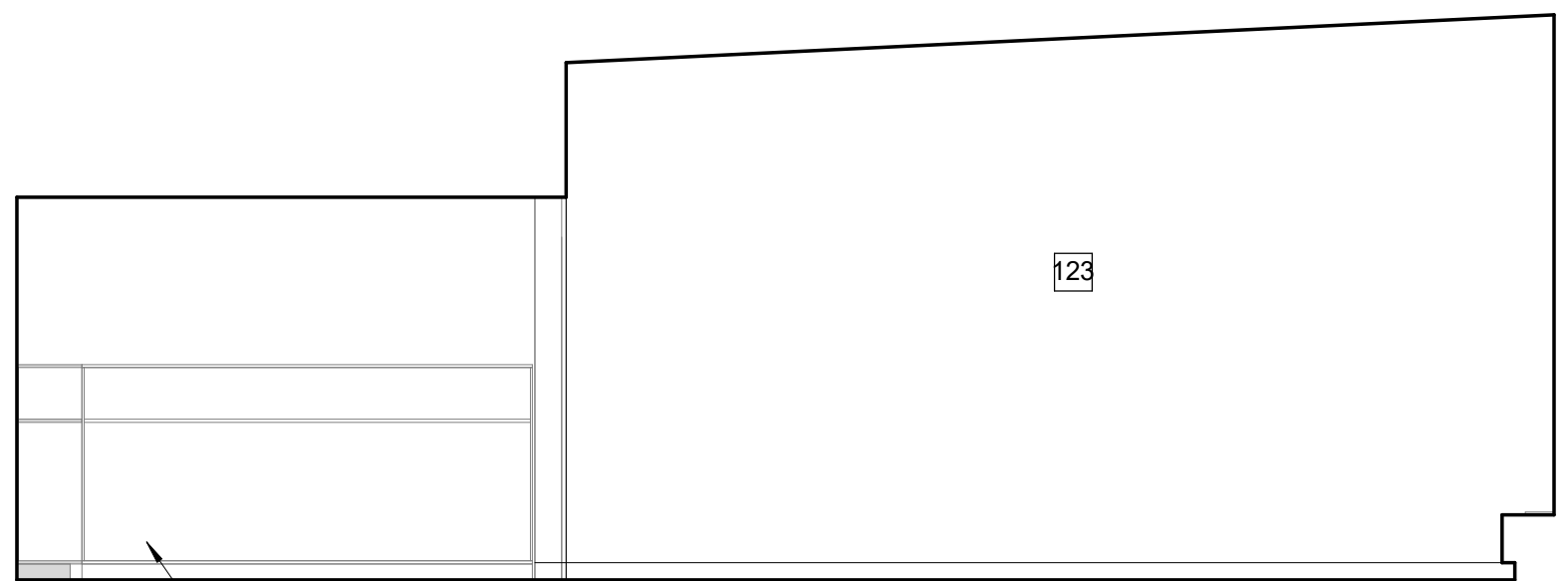
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1/19



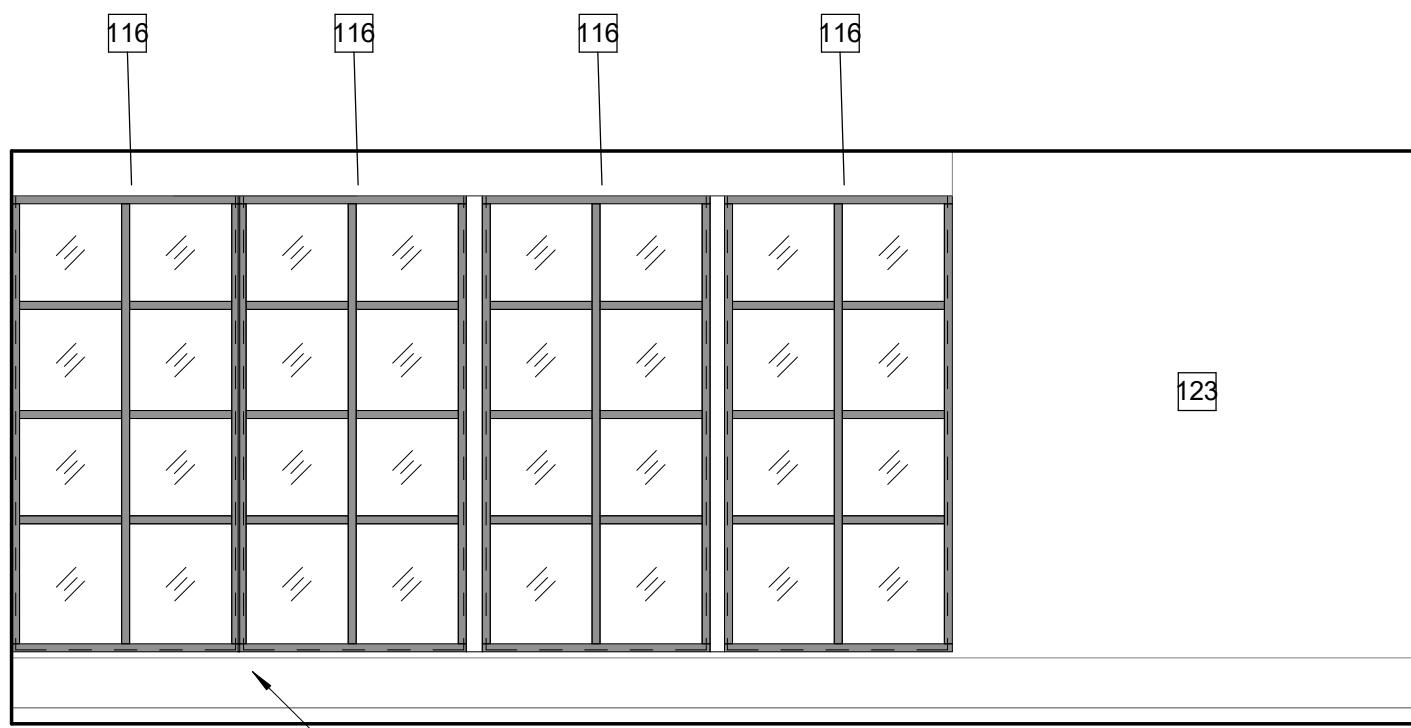
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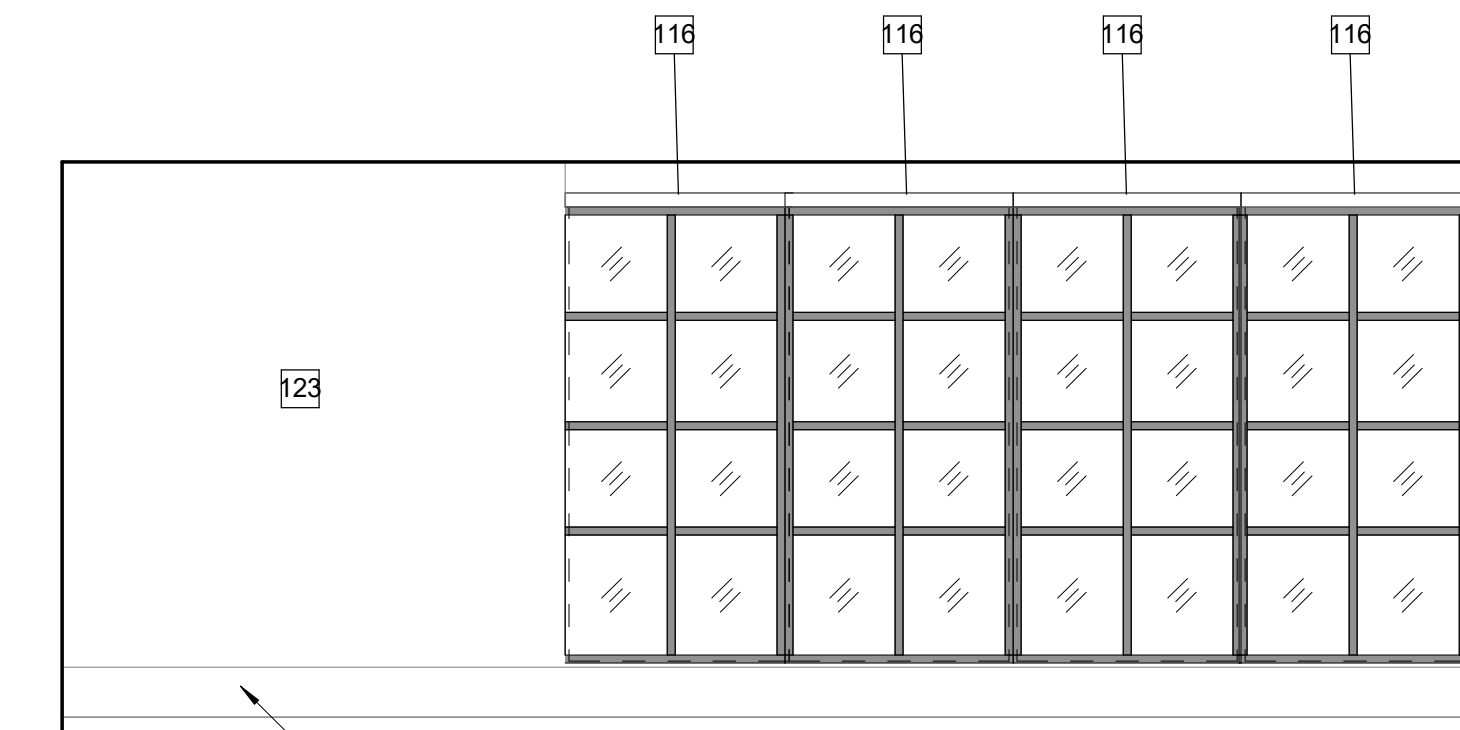
10 **B106 - W**  
A4210 Scale: 1/4" = 1'-0"



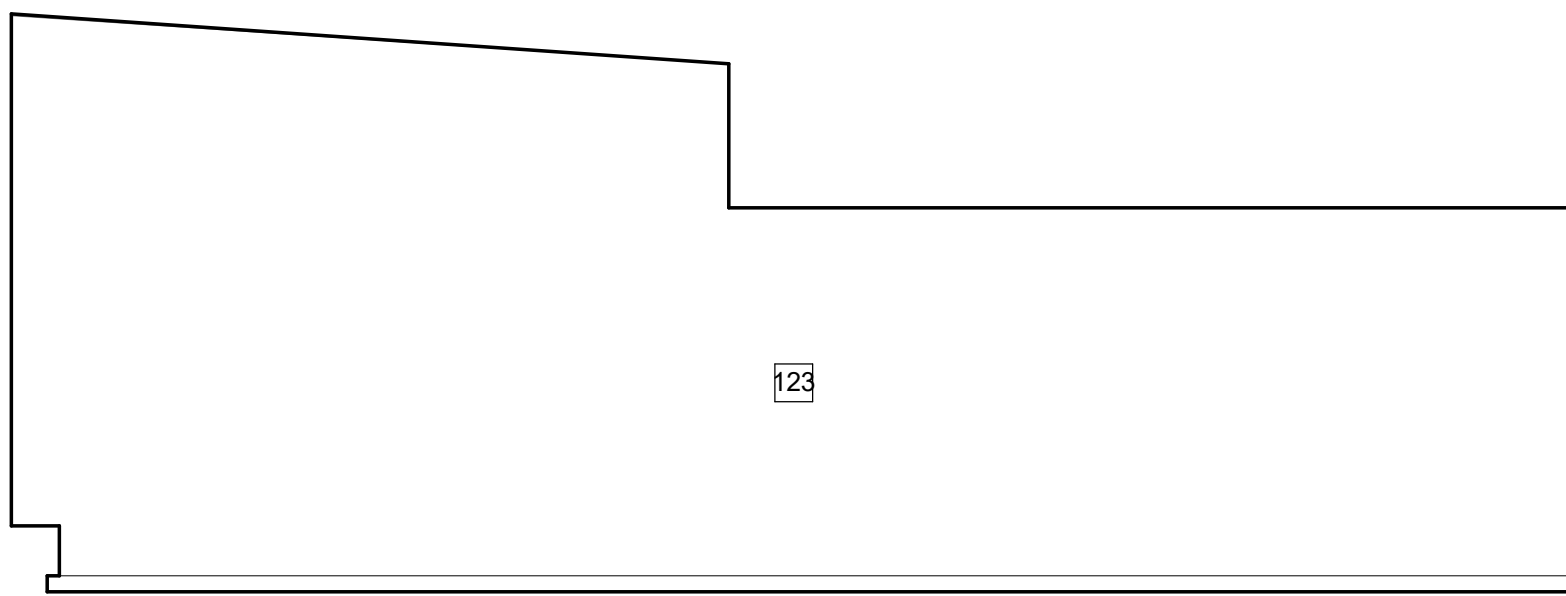
6 **A110 - W**  
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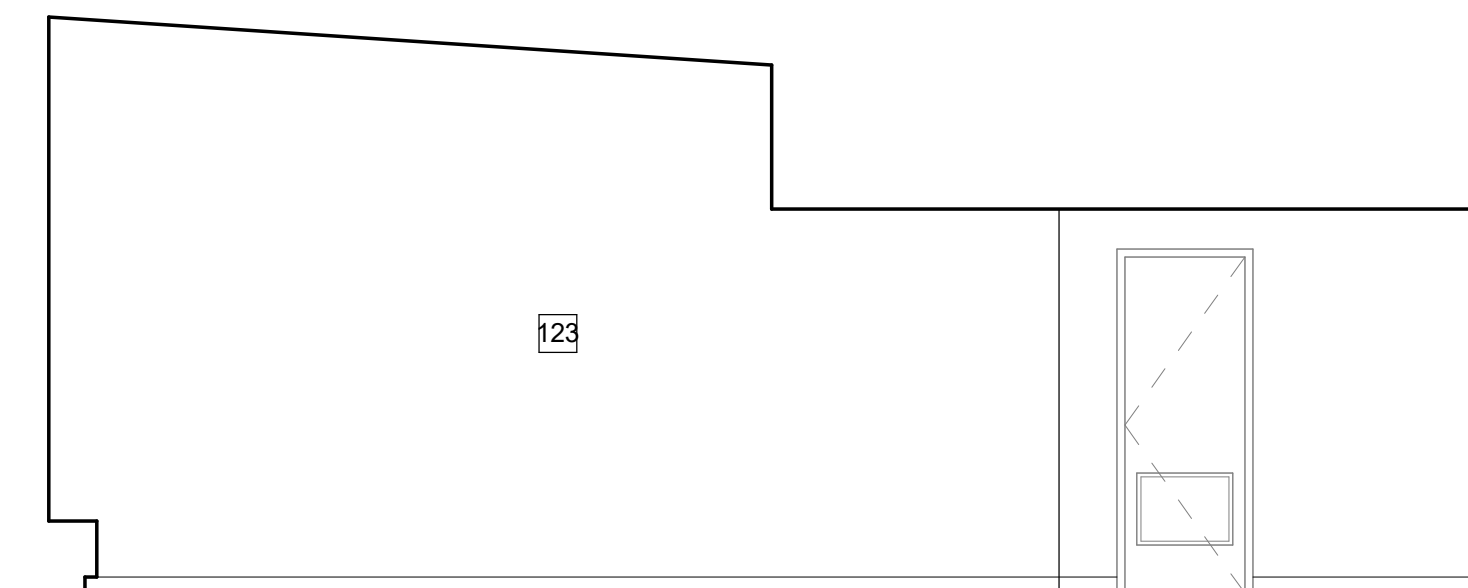
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A4210 Scale: 1/4" = 1'-0"



5 **A110 - N**  
A4210 Scale: 1/4" = 1'-0"



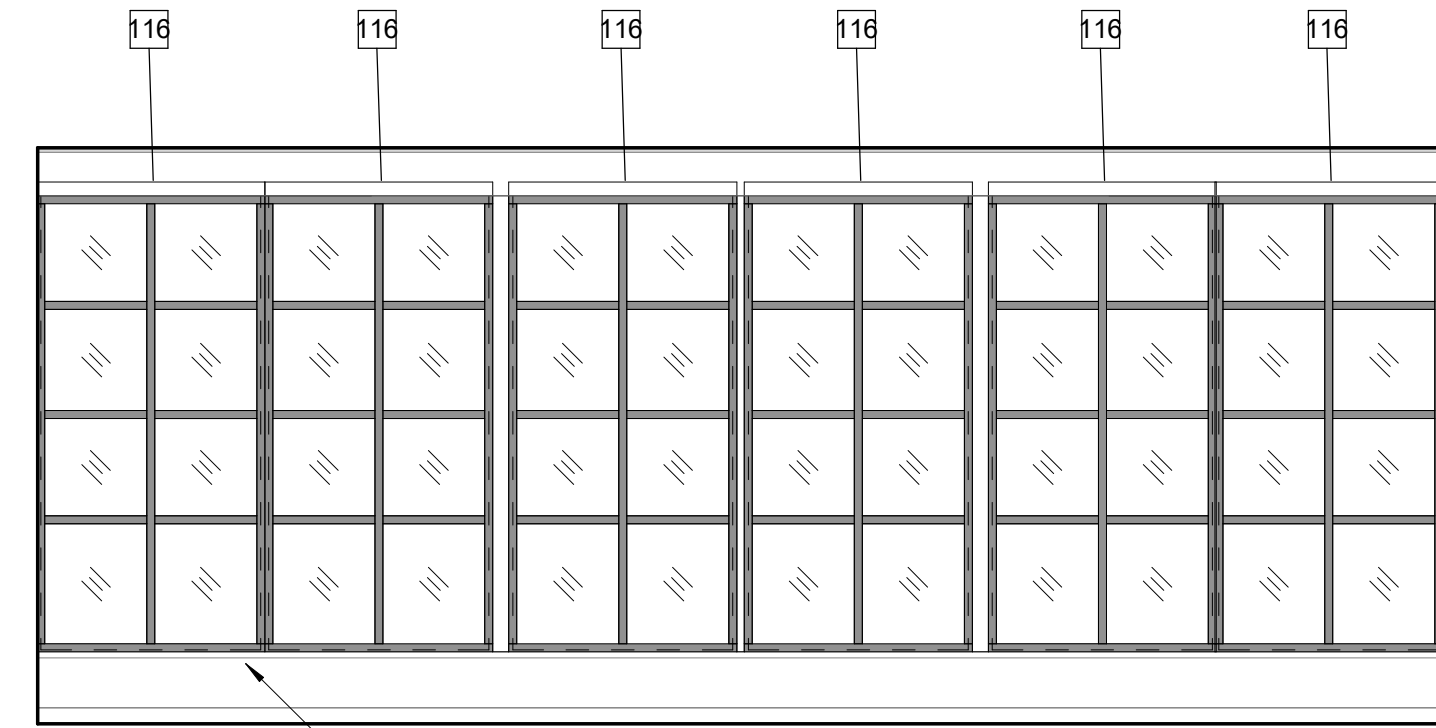
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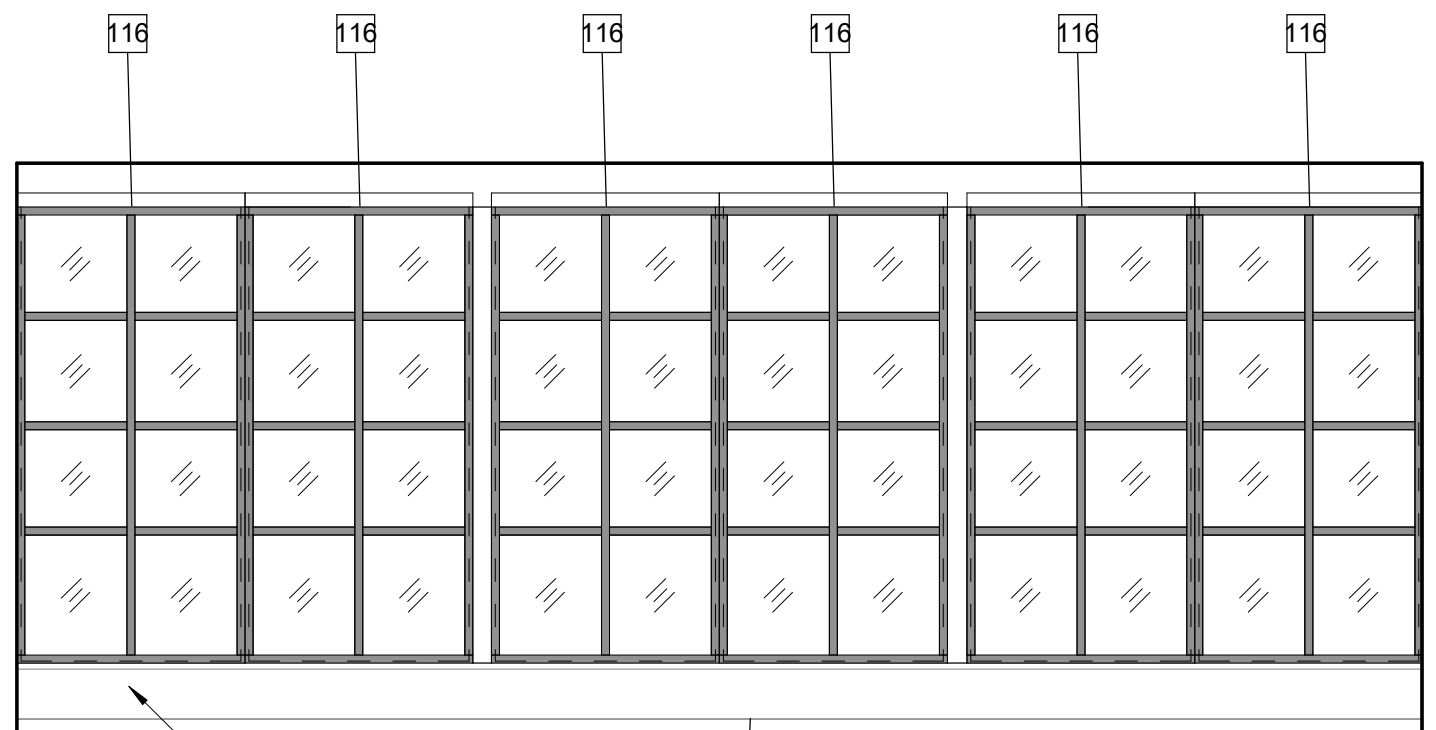
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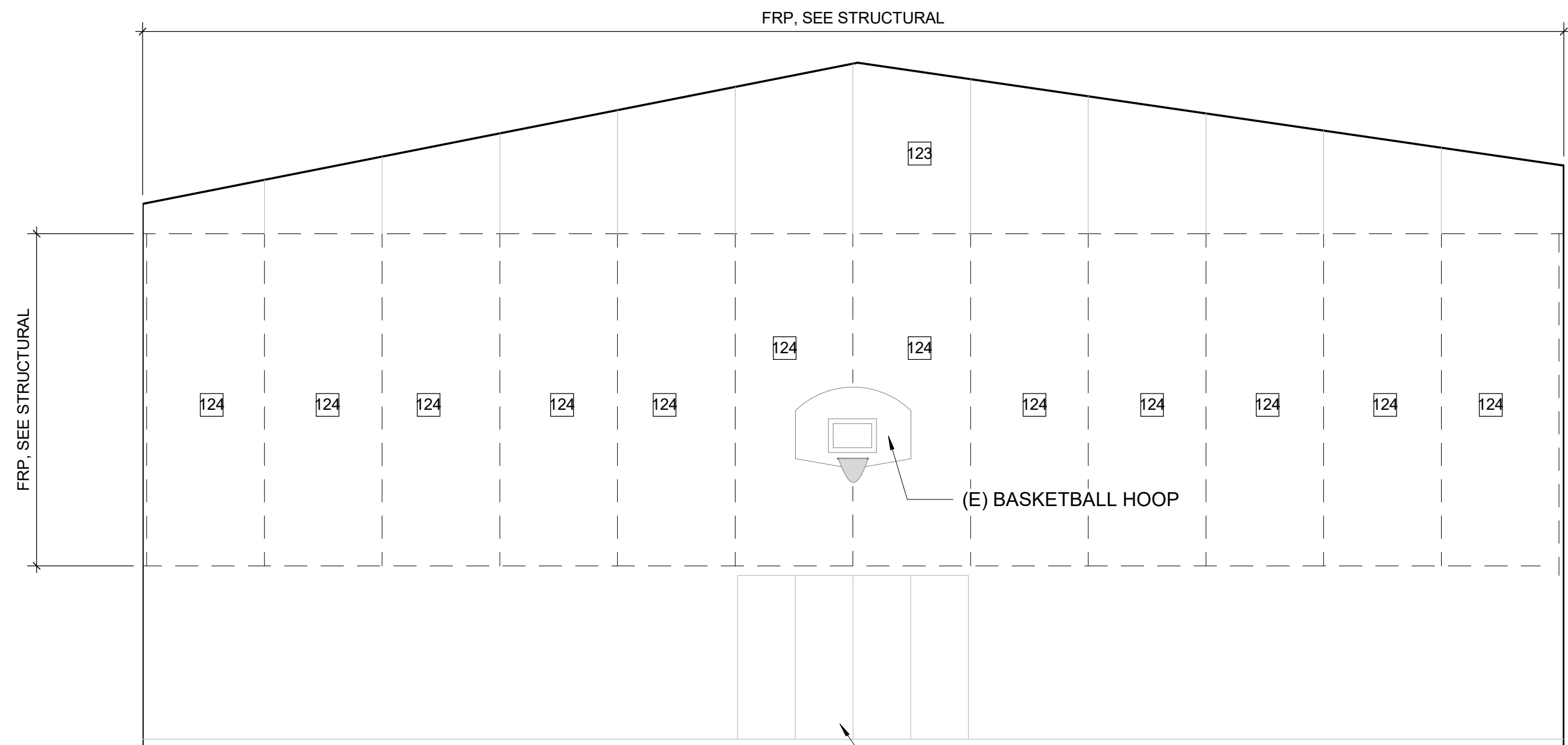
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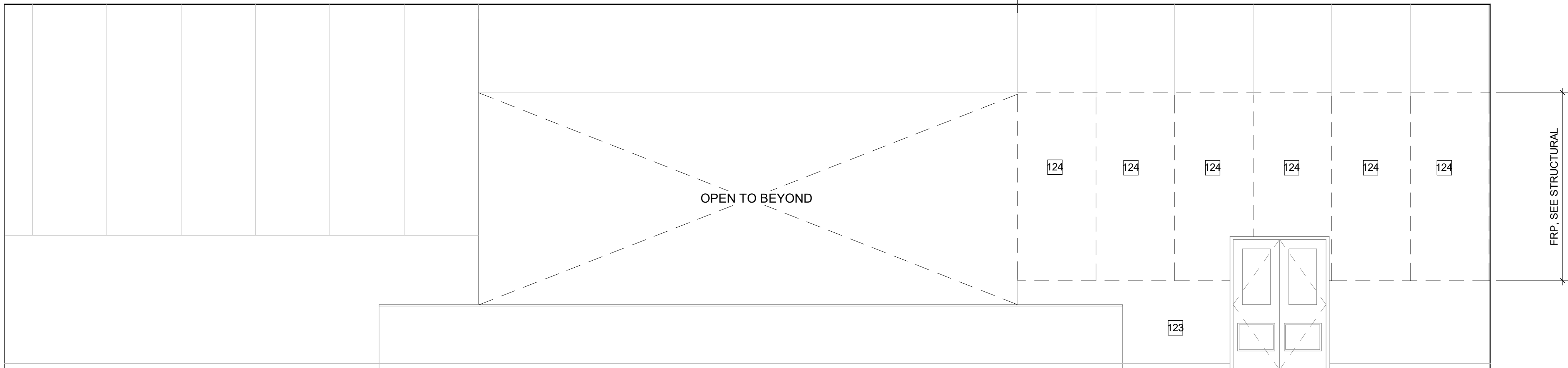
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A4210 Scale: 1/4" = 1'-0"



3 **A112 - N**  
A4210 Scale: 1/4" = 1'-0"



2 **GYM - S**  
A4210 Scale: 1/4" = 1'-0"



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

CLIENT

Beaverton School District

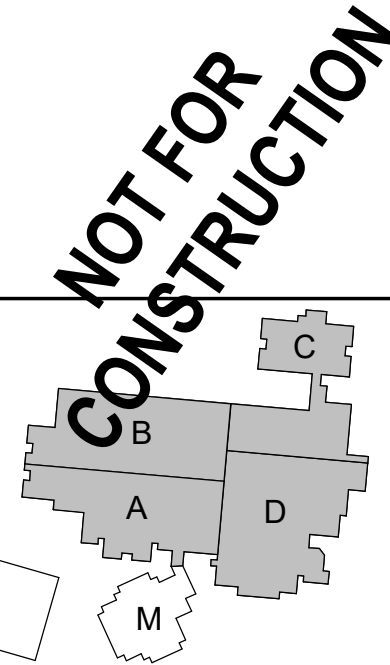


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ISSUES		DATE
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**PROJECT**  
**Beaver Acres ES Seismic Improvements**  
2125 SW 170th Avenue  
Beaverton, OR 97003

PROJECT NO: 122519	
DRAWN BY: Author	CHECKED BY: Checker
PROJECT MGR: Designer	APPROVED BY: Approver

SHEET TITLE  
**INTERIOR ELEVATIONS**

SHEET NUMBER  
**A4210**

ISSUE  
**2**

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SCALE CHECK  
1/16




DRAWING INDEX		ISSUE LOG	
		Schematic Design	100% DD
S0001	DRAWING INDEX AND LIST OF ABBREVIATIONS	X	X
S0002	GENERAL STRUCTURAL NOTES		X
S0003	GENERAL STRUCTURAL NOTES CONT.		X
S0004	SPECIAL INSPECTION AND TESTING PROGRAM		X
S0005	SPECIAL INSPECTION AND TESTING PROGRAM CONT.		X
S1501A	FLOOR PLAN - LEVEL 01 - SECTOR A	X	X
S1501B	FLOOR PLAN - LEVEL 01 - SECTOR B	X	X
S1501C	FLOOR PLAN - LEVEL 01 - SECTOR C	X	X
S1501D	FLOOR PLAN - LEVEL 01 - SECTOR D	X	X
S1501M	FLOOR PLAN - LEVEL 01 - SECTOR M	X	X
S1701A	ROOF FRAMING PLAN - SECTOR A		X
S1701B	ROOF FRAMING PLAN - SECTOR B		X
S1701C	ROOF FRAMING PLAN - SECTOR C		X
S1701D	ROOF FRAMING PLAN - SECTOR D		X
S1701M	ROOF FRAMING PLAN - SECTOR M		X
S5001	CONCRETE DETAILS		X
S6001	FRAMING DETAILS		X
ISSUE LOG KEY: ' X ' ISSUED AS PART OF A SET ' - ' NOT A PART OF ISSUED SET ' * ' FOR INFORMATION ONLY		DATE	
			10/02/2019
			11/01/2019

LIST OF ABBREVIATIONS

A.B.	ANCHOR BOLT	LVL	LAMINATED VENEER LUMBER BEAM
ACI	AMERICAN CONCRETE INSTITUTE	MAX.	MAXIMUM
ADD'L.	ADDITIONAL	MBMA	METAL BUILDING MANUFACTURERS ASSOCIATION
AESS	ARCHITECTURAL EXPOSED STRUCTURAL STEEL	MECH.	MECHANICAL
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION INCORPORATED	MFR.	MANUFACTURER
ALT.	ALTERNATE	MIN.	MINIMUM
ALUM.	ALUMINUM	MISC.	MISCELLANEOUS
ARCH.	ARCHITECT	MPH	MILES PER HOUR
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	MT	MAGNETIC PARTICLE TESTING
		(N)	NEW
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	N.I.C.	NOT IN CONTRACT
		NLT	NAIL LAMINATED TIMBER
AWS	AMERICAN WELDING SOCIETY	NOM.	NOMINAL
BLDG.	BUILDING	NO.	NUMBER
BOT.	BOTTOM	N.T.S.	NOT TO SCALE
BRBF	BUCKLING RESTRAINED BRACED FRAME	O.C.	ON CENTER
		O.D.	OUTSIDE DIAMETER
C.G.	CENTER OF GRAVITY	OPP.	OPOSITE
C.I.P.	CAST IN PLACE	OSL	ORIENTED STRAND LUMBER
C.J.	CONTROL JOINT	OWJ	OPEN WEB JOIST
C.J.P.	COMPLETE JOINT PENETRATION	PAF	POWDER ACTUATED FASTENER
CL	CENTERLINE	PART.	PARTITION
CLR.	CLEAR	P/C	PRECAST
CLT	CROSS LAMINATED TIMBER	PCF	POUNDS PER CUBIC FOOT
CMU	CONCRETE MASONRY UNIT	PERIM.	PERIMETER
COL.	COLUMN	PL	PLATE
CONC.	CONCRETE	PP	PARTIAL PENETRATION
CONN.	CONNECTION	PSF	POUNDS PER SQUARE FOOT
CONST.	CONSTRUCTION	PSL	PARALLEL STRAND LUMBER
CONT.	CONTINUOUS	PSI	POUNDS PER SQUARE INCH
db	BAR DIAMETER	P/T	POST-TENSIONED
DBA	DEFORMED BAR ANCHOR	P.T.	PRESSURE TREATED
DET.	DETAIL	PVC	POLYVINYL CHLORIDE
DIA., Ø	DIAMETER	R, RAD.	RADIUS
DIAG.	DIAGONAL	RCSC	RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS
D.L.	DEAD LOAD	REF.	REFERENCE
DLT	DOWEL LAMINATED TIMBER	RET.	RETURN
DWG.	DRAWING	REINF.	REINFORCING
ELEC.	ELECTRICAL	REQ'D.	REQUIRED
EL.	ELEVATION	REQ'MTS.	REQUIREMENTS
EQ.	EQUAL	SCHED.	SCHEDULE
EXIST., (E)	EXISTING	S.C.	SLIP CRITICAL
EXP.	EXPANSION	SCL	STRUCTURAL COMPOSITE LUMBER
EXT.	EXTERIOR	SIM.	SIMILAR
FDN.	FOUNDATION	SLRS	SEISMIC LOAD RESISTING SYSTEM
FIN.	FINISH	S.O.G.	SLAB ON GRADE
FLR.	FLOOR	SPEC.	SPECIFICATION
FT.	FOOT	SQ.	SQUARE
FTG.	FOOTING	SS	STAINLESS STEEL
FRT	FIRE RETARDANT TREATED	SSMA	STEEL STUD MANUFACTURERS ASSOCIATION
GA.	GAUGE	STD.	STANDARD
GALV.	GALVANIZED	STRUCT.	STRUCTURAL
GL	GLULAM	SYM.	SYMMETRICAL
HORIZ.	HORIZONTAL	THRU	THROUGH
HSS	HOLLOW STRUCTURAL STEEL	T&G	TONGUE AND GROOVE
IBC	INTERNATIONAL BUILDING CODE	TRANS.	TRANSVERSE
ICBO	INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS	TJ	TRUSS JOIST
I.D.	INSIDE DIAMETER	TS	LIGHT GAUGE TUBE STEEL
IN.	INCH	TYP.	TYPICAL
INT.	INTERIOR	U.N.O.	UNLESS NOTED OTHERWISE
K	KIPS	U.T.	ULTRASONIC TESTING
KSF	KIPS PER SQUARE FOOT	VERT.	VERTICAL
KSI	KIPS PER SQUARE INCH	V.I.F.	VERIFY IN FIELD
LB.	POUND	w/	WITH
L.L.	LIVE LOAD	WF	WIDE FLANGE
LLH	LONG LEG HORIZONTAL	w/o	WITHOUT
LLV	LONG LEG VERTICAL	W.P.	WORK POINT
LOC.	LOCATION	WPS	WELDING PROCEDURE SPECIFICATION
LONG.	LONGITUDINAL	WWF	WELDED WIRE FABRIC
LSL	LAMINATED STRAND LUMBER BEAM		
LVF	LOW VELOCITY FASTENER		

CLIENT

Owner



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ISSUES

No.	DESCRIPTION	DATE

KEYPLAN

CONSULTANTS

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111 SW Fifth Ave., Suite 2600  
Portland, OR 97204  
O: 503.227.3251 F: 503.227.7980  
www.kpff.com

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PRIME CONSULTANT

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tel 503 226 6950 fax 503 273 9192  
ibigroup@ibigroup.com

PROJECT

Beaver Acres ES Seismic Improvements

2125 SW 170th Avenue  
Beaverton, OR 97003

PROJECT NO:  
122519

DRAWN BY:  
JBD

CHECKED BY:  
KPFF

PROJECT MGR:  
AS

APPROVED BY:  
JLA

SHEET TITLE

DRAWING INDEX AND LIST OF ABBREVIATIONS

SHEET NUMBER

S0001

ISSUE

SCALE: AS SHOWN

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# GENERAL STRUCTURAL NOTES

## 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.
CLASSROOMS	40 PSF L.L. + 15 PSF FOR PARTITIONS	1,000 LBS.
ROOF LIVE LOAD	20 PSF L.L. (ALSO SEE SNOW LOAD CRITERIA BELOW)	
NOTES:	1. LIVE LOADS REDUCED PER OSSC. 2. MEMBERS DESIGNED FOR MORE CRITICAL OF UNIFORM OR CONCENTRATED LOAD.	
SNOW CRITERIA		
DESIGN ROOF SNOW LOAD	27 PSF MINIMUM IN ACCORDANCE WITH OSSC	
SNOW DRIFT	PER OSSC AS SHOWN ON PLANS	
GROUND SNOW LOAD	Pg = 11 PSF IN ACCORDANCE WITH: snowload.seao.org	
FLAT ROOF SNOW LOAD	Pf = 9 PSF	
SNOW EXPOSURE FACTOR	Ce = 1.0	
SNOW LOAD IMPORTANCE FACTOR	Is = 1.1	
THERMAL FACTOR	Ct = 1.0	
GEOTECHNICAL CRITERIA		
DESIGN BASED ON REPORT BY:	GEODESIGN, INC. DATED OCTOBER 1, 2019	
ALLOWABLE SOIL PRESSURE:		
ON GRANULAR PADS TO BEDROCK	2,500 PSF	
SHORT TERM LOADING	1/3 INCREASE	
WIND CRITERIA		
RISK CATEGORY	III	
MAIN WIND FORCE RESISTING SYSTEM	V = 103 MPH BASIC DESIGN WIND SPEED (3-SECOND GUST)	
COMPONENTS AND CLADDING	V = 103 MPH BASIC DESIGN WIND SPEED (3-SECOND GUST)	
EXPOSURE CATEGORY	B	
GUST / INTERNAL PRESSURE	GCPI = +/- 0.18	
ASCE 41-17 SEISMIC CRITERIA		
RISK CATEGORY	IV (MAIN BUILDINGS)	
BPOE FOR 75%BSE-1N	IMMEDIATE OCCUPANCY, POSITION RETENTION	
BPOE FOR BSE-2E	LIFE SAFETY, HAZARD REDUCED	
RISK CATEGORY	III (SECTOR M CLASSROOM)	
BPOE FOR 75%BSE-1N	DAMAGE CONTROL, POSITION RETENTION	
BPOE FOR BSE-2E	LIMITED SAFETY, HAZARD REDUCED	
SITE CLASS	D	
SEISMIC HAZARD LEVEL 75% BSE-1N		
DESIGN SPECTRAL ACCELERATION	SXS = 0.508g	SX1 = 0.359g
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE PER ASCE 41-17 CHAPTER 3	
	X DIRECTION (E / W)	Y DIRECTION (N / S)
PSEUDO LATERAL FORCE COEFFICIENT	C1C2CM = 1.4	
SPECTRAL RESPONSE ACCELERATION	Sa = 0.508g	
PSEUDO LATERAL FORCE	XXX KIPS	XXX KIPS
SEISMIC HAZARD LEVEL BSE-2E		
MCE SPECTRAL ACCELERATION	Ss = 0.616g	S1 = 0.264g
SITE COEFFICIENT	Fa = 1.307	Fv = 2.072
DESIGN SPECTRAL ACCELERATION	SXS = 0.805g	SX1 = 0.547g
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE PER ASCE 41-17 CHAPTER 3	
	X DIRECTION (E / W)	Y DIRECTION (N / S)
PSEUDO LATERAL FORCE COEFFICIENT	C1C2CM = 1.4	
SPECTRAL RESPONSE ACCELERATION	Sa = 0.805g	
PSEUDO LATERAL FORCE	XXX KIPS	XXX KIPS

## 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.

## SPECIAL INSPECTIONS AND TESTING

SPECIAL INSPECTION WILL BE PROVIDED BY THE OWNER BASED ON THE REQUIREMENTS OF THE OSSC AS ELABORATED IN THE SPECIAL INSPECTION AND TESTING MANUAL ON SHEETS S90X-S90X. CONTRACTOR SHALL PROVIDE SUFFICIENT NOTICE AND ACCESS FOR THE SPECIAL INSPECTOR TO PERFORM THESE INSPECTIONS.

## SUBMITTALS

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 OAD 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		X	REF. TABLE NOTE 2
CONCRETE MIX DESIGNS	X		
CONCRETE REINFORCEMENT	X		
CONCRETE ANCHORAGES	X		
EMBEDDED STEEL ITEMS	X		
STRUCTURAL STEEL	X		
STEEL WELDING PROCEDURES	X		
STRUCTURAL COLD FORMED METAL FRAMING	X		
STEEL FASTENERS	X		
WINDOW WALL AND OTHER CLADDING AND GLAZING SYSTEMS		X	
ROOF TIE-OFF ANCHORS	X		
MEP EQUIPMENT ANCHORAGE AND BRACING		X	REF. TABLE NOTE 1

- TABLE NOTES:
- 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 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.

## 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:

MIX ID	USE	f <sub>c</sub> (PSI)	TEST AGE (DAYS)	MAX. W/C RATIO (NOTE 1 & 2)	MAX. AGG. SIZE	EXPOSURE CLASS
B	INTERIOR SLABS ON GRADE	4,000	28	N/A	1"	F0 S0 W0 C0
E	SPREAD FOOTINGS	3,500	28	0.55	1"	F1 S0 W0 C0

- TABLE NOTES:
- VERIFY WATER-CEMENTITIOUS MATERIAL RATIO WITH FLOOR COVERING MANUFACTURER FOR CONCRETE FLOORS WITH MOISTURE SENSITIVE FLOOR COVERINGS.
  - ESTABLISH WATER-CEMENTITIOUS MATERIAL RATIO PER ACI 301-16 CHAPTER 4.
  - REFERENCE SLABS EXPOSED TO VIEW GENERAL NOTES FOR ADDITIONAL MIX REQUIREMENTS.
  - POST-TENSIONED OR PRESTRESSED CONCRETE SHALL NOT CONTAIN MORE THAN 0.06% CHLORIDE IONS BY WEIGHT OF CEMENT.
  - REF. ACI 318-14 TABLE 19.3.2.1 FOR ADDITIONAL MIX REQUIREMENTS SPECIFIC TO EXPOSURE CLASS.
  - EXPOSURE CATEGORY "F" APPLIES TO LEVEL OF FREEZE THAW EXPOSURE.
  - EXPOSURE CATEGORY "S" APPLIES TO LEVEL OF SULFATE EXPOSURE.
  - EXPOSURE CATEGORY "W" APPLIES TO REQUIRED LEVEL OF PERMEABILITY.
  - EXPOSURE CATEGORY "C" APPLIES TO CORROSIVE LOCATIONS - INCLUDING SURROUNDING ENVIRONMENT (SUCH AS MARINE ENVIRONMENT) AND CORROSIVE SOILS.

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 f<sub>c</sub> = 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.

CONCRETE MIX AIR CONTENT		
MAX. AGGREGATE SIZE	CONCRETE SUBJECT TO FREEZE/THAW (EXPOSURE CLASS F1)	CONCRETE SUBJECT TO CONT. MOISTURE AND/OR DEICING CHEMICALS S (EXPOSURE CLASS F2 AND F3)
3/8"	6.0%	7.5%
1/2"	5.5%	7.0%
3/4"	5.0%	6.0%
1"	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 (HWRW) ADMIXTURE CONFORMING TO ASTM C494 TYPE F OR G MAY BE USED IN CONCRETE MIXES PROVIDING 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.

## 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 F<sub>y</sub> 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	TYPE	MATERIAL
ELEVATED SLABS, SLABS-ON-GRADE AND SLABS-ON-METAL DECK	DEFORMED BARS	ASTM A706 GRADE 60 OR ASTM A615 GRADE 60
	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 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				
BAR SIZE	SLAB BOTTOM BARS		SLAB TOP BARS	
	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 SIZE	BOTTOM BARS		TOP BARS	
	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.
  - ASTM A615 OR ASTM A706, GRADE 60 DEFORMED REINFORCING BARS
  - MINIMUM CLEAR COVER AND BAR SPACING TO BE PROVIDED.
  - 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.
  - COMBINATIONS OF EFFECTS DUE TO CONCRETE STRENGTH, CONCRETE WEIGHT, AND EPOXY COATING ARE CUMULATIVE.
  - 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 DBL 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

- TABLE NOTES:
- ALL WELDED REBAR TO BE ASTM A706 GRADE 60.
  - ALL AROUND FILLET WELD USING E70 ELECTRODE OR PROVIDE CJP AT CONTRACTOR'S OPTION.
  - BARS TO BE ORIENTED PERPENDICULAR TO PLATE.
  - 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.

## POST-INSTALLED CONCRETE ANCHORS

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

TYPE	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

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# 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 SIZE, GAUGE, AND SPACING SHOWN ON THE DRAWINGS.

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:

<b>EXAMPLE:</b>	<b>362 S 162 - 33</b>
362	INDICATES WEB DEPTH (IN 1/1,000 OF AN INCH)
S	INDICATES SHAPE STYLE (S, T, U OR F)
162	INDICATES FLANGE WIDTH (IN 1/1,000 OF AN INCH)
33	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 ASSOCIATIONS (SSMA) RECOMMENDATIONS.

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

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 TO LENGTH.

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

COLD-FORMED FRAMING CONNECTIONS SHALL BE AS FOLLOWS:

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

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.

WELDING SHALL CONFORM WITH AWS D1.3.

## SAWN LUMBER

SAWN LUMBER SHALL CONFORM TO THE REQUIREMENTS AS INDICATED IN THE CURRENTLY ACCEPTED NATIONAL DESIGN SPECIFICATION (NDS) DESIGN VALUES FOR WOOD CONSTRUCTION AND CONFORMING TO THE WEST COAST LUMBER INSPECTION BUREAU OR WESTERN WOOD PRODUCTS ASSOCIATION GRADING RULES. LUMBER SHALL BE THE SPECIES, GRADE, AND MOISTURE CONTENT NOTED BELOW:

USE	SPECIES AND GRADE	MOISTURE CONTENT
LUMBER 2" TO 4" THICK x 6" 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

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

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

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

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-2686), PANELS SHALL BE APA RATED SHEATHING OR APA RATED STURD-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.

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

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-PENETRATION OF NAILS.

ALL SHEAR WALL PANEL SHEATHING EDGES SHALL BE BLOCKED. EDGE NAILS SHALL BE AT LEAST 3/8" FROM EDGES AND ENDS OF PANELS. STAGGER NAILING ON EDGES.

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### PROJECT

Beaver Acres ES Seismic  
Improvements  
2125 SW 170th Avenue  
Beaverton, OR 97003

PROJECT NO:

122519

DRAWN BY:

JBD

CHECKED BY:

KPFF

PROJECT MGR:

AS

APPROVED BY:

JLA

SHEET TITLE

GENERAL STRUCTURAL  
NOTES CONT.

SHEET NUMBER

S0003

ISSUE

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SPECIAL INSPECTION AND TESTING PROGRAM CONT.

TABLE 4 - CONCRETE - SPECIAL INSPECTIONS					
SYSTEM OR MATERIAL	OSSC CODE REFERENCE	CODE OR STANDARD REFERENCE	FREQUENCY (NOTE 6)		REMARKS
			CONTINUOUS	PERIODIC	
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	X	X	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		ACI 318: 17.8.2.4			INSPECTION REQUIREMENTS PER ICC EVALUATION REPORT
1. ADHESIVE ANCHORS WITH SUSTAINED TENSION LOADS INSTALLED HORIZONTALLY OR AT AN UPWARD INCLINE			X		
2. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN NOTE ABOVE				X	
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	X		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	X		
CONCRETE CURING	1908.9	ACI 318: 26.5.3 - 26.5.5		X	
VERIFICATION OF FORMWORK		ACI 318: 26.11.2 (b)		X	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		X	

TABLE 5 - WOOD - SPECIAL INSPECTIONS					
SYSTEM OR MATERIAL	OSSC CODE REFERENCE	CODE OR STANDARD REFERENCE	FREQUENCY (NOTE 6)		REMARKS
			CONTINUOUS	PERIODIC	
WOOD - REQUIRED SEISMIC RESISTANCE INSPECTIONS					
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			X	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					
SYSTEM OR MATERIAL	OSSC CODE REFERENCE	CODE OR STANDARD REFERENCE	FREQUENCY (NOTE 6)		REMARKS
			CONTINUOUS	PERIODIC	
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		X	BY THE GEOTECHNICAL ENGINEER OR QUALIFIED SPECIAL INSPECTOR

TABLE 7 - STEEL - TESTING					
SYSTEM OR MATERIAL	OSSC CODE REFERENCE	CODE OR STANDARD REFERENCE	FREQUENCY (NOTE 6)		REMARKS
			CONTINUOUS	PERIODIC	
STEEL					
ULTRASONIC (UT) TESTING OF WELDS	1705.2.1	AWS D1.1 6.13 & 6.14.3			ALL C.J.P. WELDS 5/16" AND THICKER REQUIRE UT TESTING.
MAGNETIC PARTICLE (MT) TESTING OF WELDS	1705.2.1	AWS D1.1 6.14.4 AISC360 N6.5c			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
PRE-CONSTRUCTION TESTING OF WELDING STUDS, WELDED REINFORCING BARS AND DBA'S	1705.2.1	AWS D1.1 7.7.1	EACH SIZE AND TYPE OF STUD/BAR EACH SHIFT		THIS TESTING PERFORMED BY CONTRACTOR AND CONFIRMED BY SPECIAL INSPECTOR
STUD/DBA APPLICATION QUALIFICATION	1705.2.1	AWS D1.1 7.6	NON-PREQUALIFIED APPLICATIONS		THIS TESTING PERFORMED BY CONTRACTOR AND CONFIRMED BY SPECIAL INSPECTOR

TABLE 8 - CONCRETE - TESTING					
SYSTEM OR MATERIAL	OSSC CODE REFERENCE	CODE OR STANDARD REFERENCE	FREQUENCY (NOTE 6)		REMARKS
			CONTINUOUS	PERIODIC	
CONCRETE					
CONCRETE STRENGTH	1705.3 ASTM C172 ASTM C 31 ACI 318 26.12, 25.6.2.1	ASTM C39	EACH 150 CY NOR LESS THAN EACH 5000 SF OF SLAB OR WALL PLACED EACH SHIFT		FABRICATE SPECIMENS AT TIME FRESH CONCRETE IS PLACED
CONCRETE SLUMP		ASTM C143			
CONCRETE AIR CONTENT		ASTM C231			
CONCRETE TEMPERATURE		ASTM C1064			

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PROJECT

Beaver Acres ES Seismic Improvements

2125 SW 170th Avenue  
Beaverton, OR 97003

PROJECT NO:  
122519

DRAWN BY:  
JBD

CHECKED BY:  
KPFF

PROJECT MGR:  
AS

APPROVED BY:  
JLA

SHEET TITLE

SPECIAL INSPECTION AND TESTING PROGRAM CONT.

SHEET NUMBER

S0005

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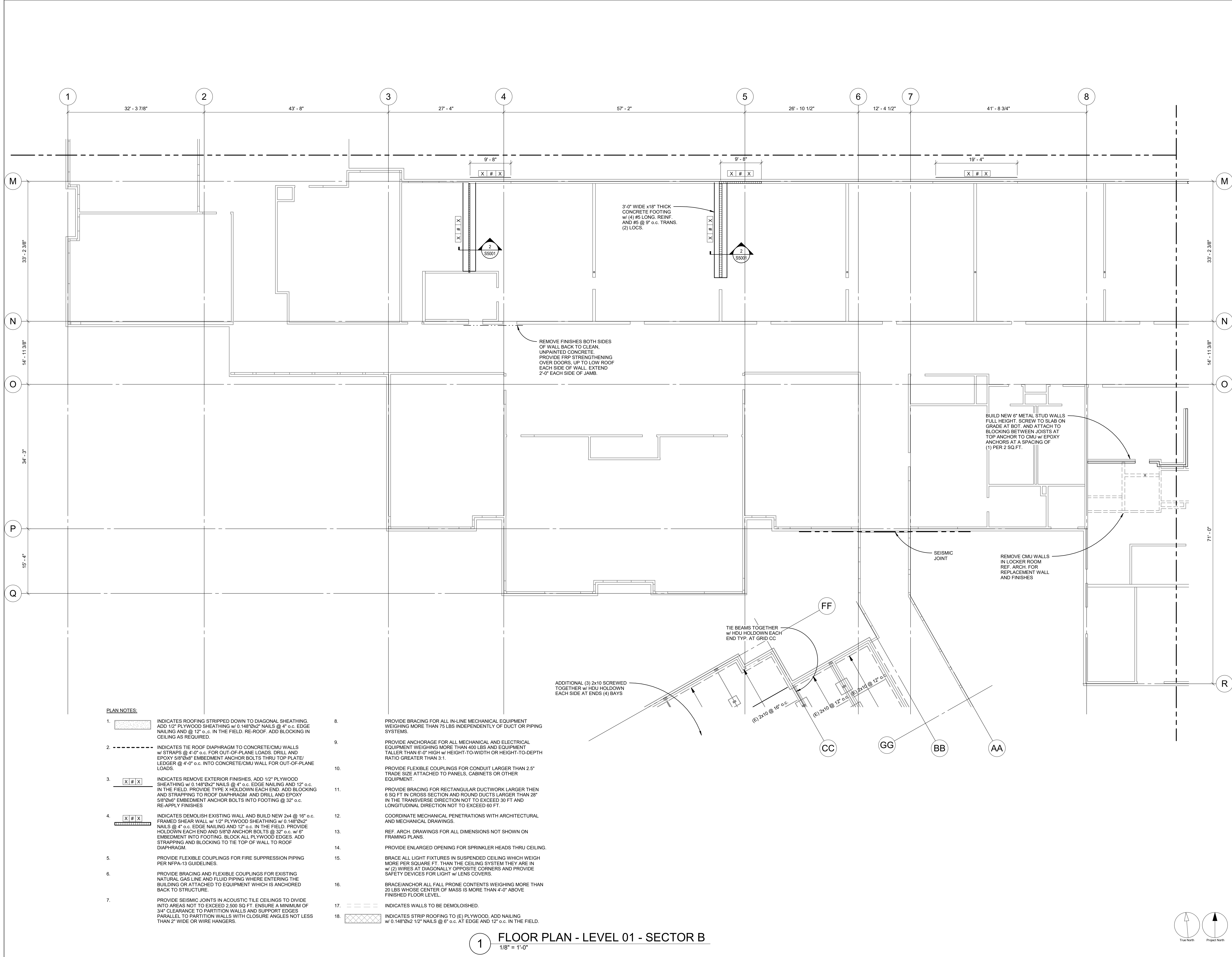
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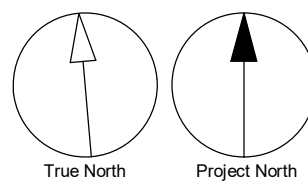
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PLAN NOTES:


- 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.
- 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 LOADS.
- INDICATES REMOVE EXTERIOR FINISHES. ADD 1/2" PLYWOOD 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"Øx8" EMBEDMENT ANCHOR BOLTS INTO FOOTING @ 32" o.c. RE-APPLY FINISHES
- 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 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 DIAPHRAGM.
- PROVIDE FLEXIBLE COUPLINGS FOR FIRE SUPPRESSION PIPING PER NFPA-13 GUIDELINES.
- 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.
- 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.
- PROVIDE BRACING FOR ALL IN-LINE MECHANICAL 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.
- 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.
- PROVIDE FLEXIBLE COUPLINGS FOR CONDUIT LARGER THAN 2.5" TRADE SIZE ATTACHED TO PANELS, CABINETS OR OTHER EQUIPMENT.
- 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.
- COORDINATE MECHANICAL PENETRATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
- REF. ARCH. DRAWINGS FOR ALL DIMENSIONS NOT SHOWN ON FRAMING PLANS.
- PROVIDE ENLARGED OPENING FOR SPRINKLER HEADS THRU CEILING.
- 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 SAFETY DEVICES FOR LIGHT w/ LENS COVERS.
- BRACE/ANCHOR ALL FALL PRONE CONTENTS WEIGHING MORE THAN 20 LBS WHOSE CENTER OF MASS IS MORE THAN 4'-0" ABOVE FINISHED FLOOR LEVEL.
- INDICATES WALLS TO BE DEMOLOISHED.
- 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.

1 FLOOR PLAN - LEVEL 01 - SECTOR B  
1/8" = 1'-0"



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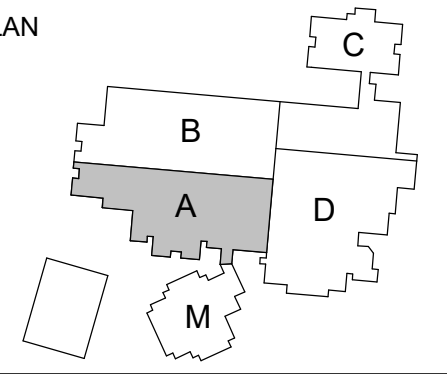
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PROJECT

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PROJECT NO:

122519

DRAWN BY:

JBD

CHECKED BY:

KPFF

PROJECT MGR:

AS

APPROVED BY:

JLA

SHEET TITLE

FLOOR PLAN - LEVEL 01 - SECTOR A

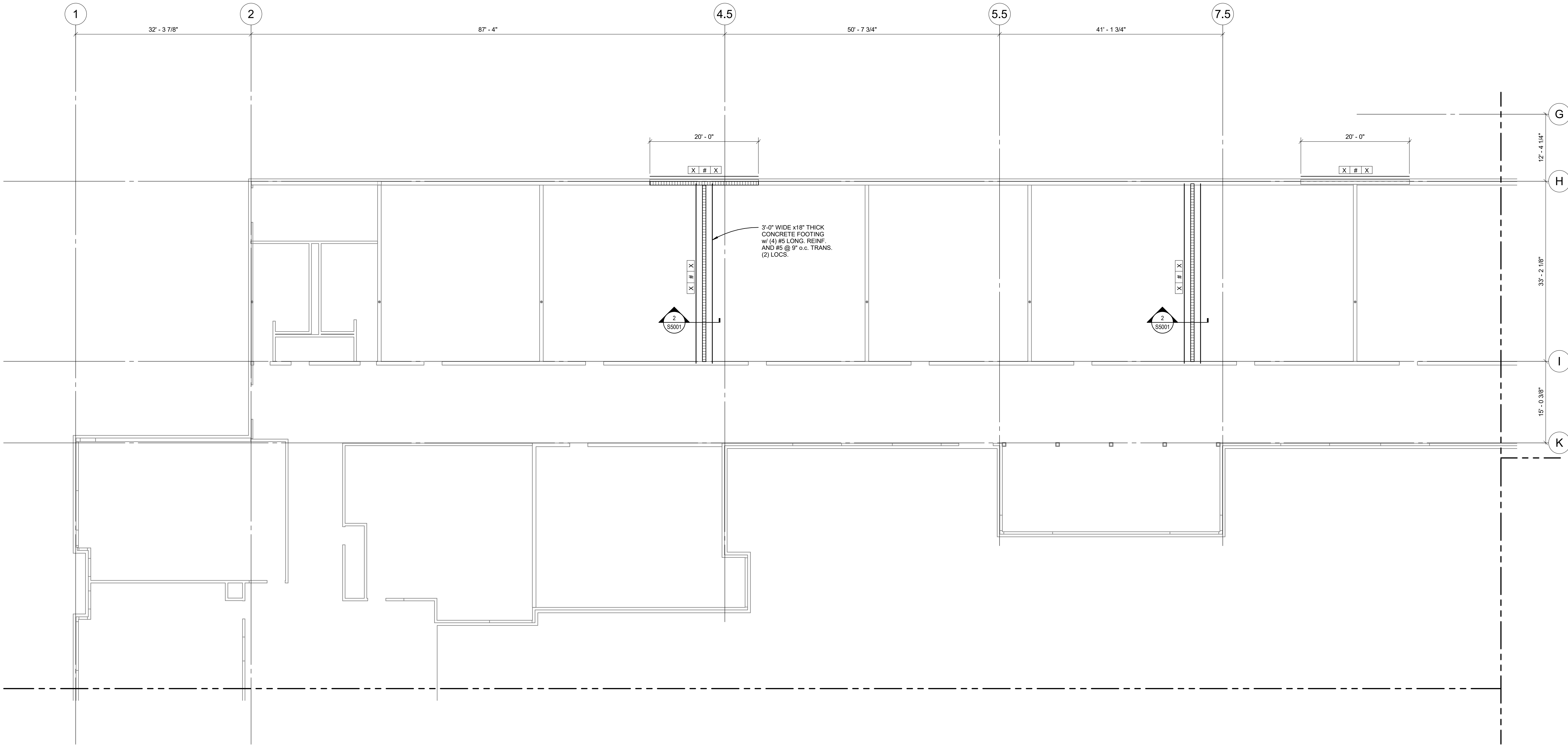
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S1501A



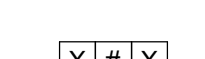



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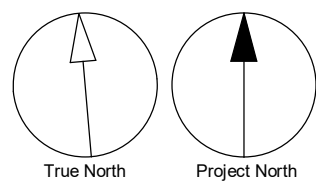
PLAN NOTES:

-  INDICATES ROOFING STRIPPED DOWN TO DIAGONAL SHEATHING. ADD 1/2" PLYWOOD SHEATHING w/ 0.148"x2" NAILS @ 4" o.c. EDGE NAILING AND @ 12" o.c. IN THE FIELD. RE-ROOF. ADD BLOCKING IN CEILING AS REQUIRED.
-  INDICATES TIE ROOF DIAPHRAGM TO CONCRETE/CMU WALLS w/ STRAPS @ 4'-0" o.c. FOR OUT-OF-PLANE LOADS. DRILL AND EPOXY 5/8"x6" EMBEDMENT ANCHOR BOLTS THRU TOP PLATE/ LEDGER @ 4'-0" o.c. INTO CONCRETE/CMU WALL FOR OUT-OF-PLANE LOADS.
-  INDICATES REMOVE EXTERIOR FINISHES, ADD 1/2" PLYWOOD SHEATHING w/ 0.148"x2" 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"x6" EMBEDMENT ANCHOR BOLTS INTO FOOTING @ 32" o.c. RE-APPLY FINISHES
-  INDICATES DEMOLISH EXISTING WALL AND BUILD NEW 2x4 @ 16" o.c. FRAMED SHEAR WALL w/ 1/2" PLYWOOD SHEATHING w/ 0.148"x2" NAILS @ 4" o.c. EDGE NAILING AND 12" o.c. IN THE FIELD. PROVIDE HOLDOWN EACH END AND 5/8"x6" 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 DIAPHRAGM.
- PROVIDE FLEXIBLE COUPLINGS FOR FIRE SUPPRESSION PIPING PER NFPA-13 GUIDELINES.
- 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.
- 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.
- PROVIDE BRACING FOR ALL IN-LINE MECHANICAL EQUIPMENT WEIGHING MORE THAN 75 LBS INDEPENDENTLY OF DUCT OR PIPING SYSTEMS.
- 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.
- PROVIDE FLEXIBLE COUPLINGS FOR CONDUIT LARGER THAN 2 1/2" TRADE SIZE ATTACHED TO PANELS, CABINETS OR OTHER EQUIPMENT.
- 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.
- COORDINATE MECHANICAL PENETRATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
- REF. ARCH. DRAWINGS FOR ALL DIMENSIONS NOT SHOWN ON FRAMING PLANS.
- PROVIDE ENLARGED OPENING FOR SPRINKLER HEADS THRU CEILING.
- 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 SAFETY DEVICES FOR LIGHT w/ LENS COVERS.
- BRACE/ANCHOR ALL FALL PRONE CONTENTS WEIGHING MORE THAN 20 LBS WHOSE CENTER OF MASS IS MORE THAN 4'-0" ABOVE FINISHED FLOOR LEVEL.
-  INDICATES WALLS TO BE DEMOLOISHED.
-  INDICATES STRIP ROOFING TO (E) PLYWOOD, ADD NAILING w/ 0.148"x2 1/2" NAILS @ 6" o.c. AT EDGE AND 12" o.c. IN THE FIELD.

1


FLOOR PLAN - LEVEL 01 - SECTOR A

1/8" = 1'-0"



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PROJECT

Beaver Acres ES Seismic Improvements

2125 SW 170th Avenue  
Beaverton, OR 97003

PROJECT NO:

122519

DRAWN BY:

JBD

CHECKED BY:

KPFF

PROJECT MGR:

AS

APPROVED BY:

JLA

SHEET TITLE

FLOOR PLAN - LEVEL 01 - SECTOR B

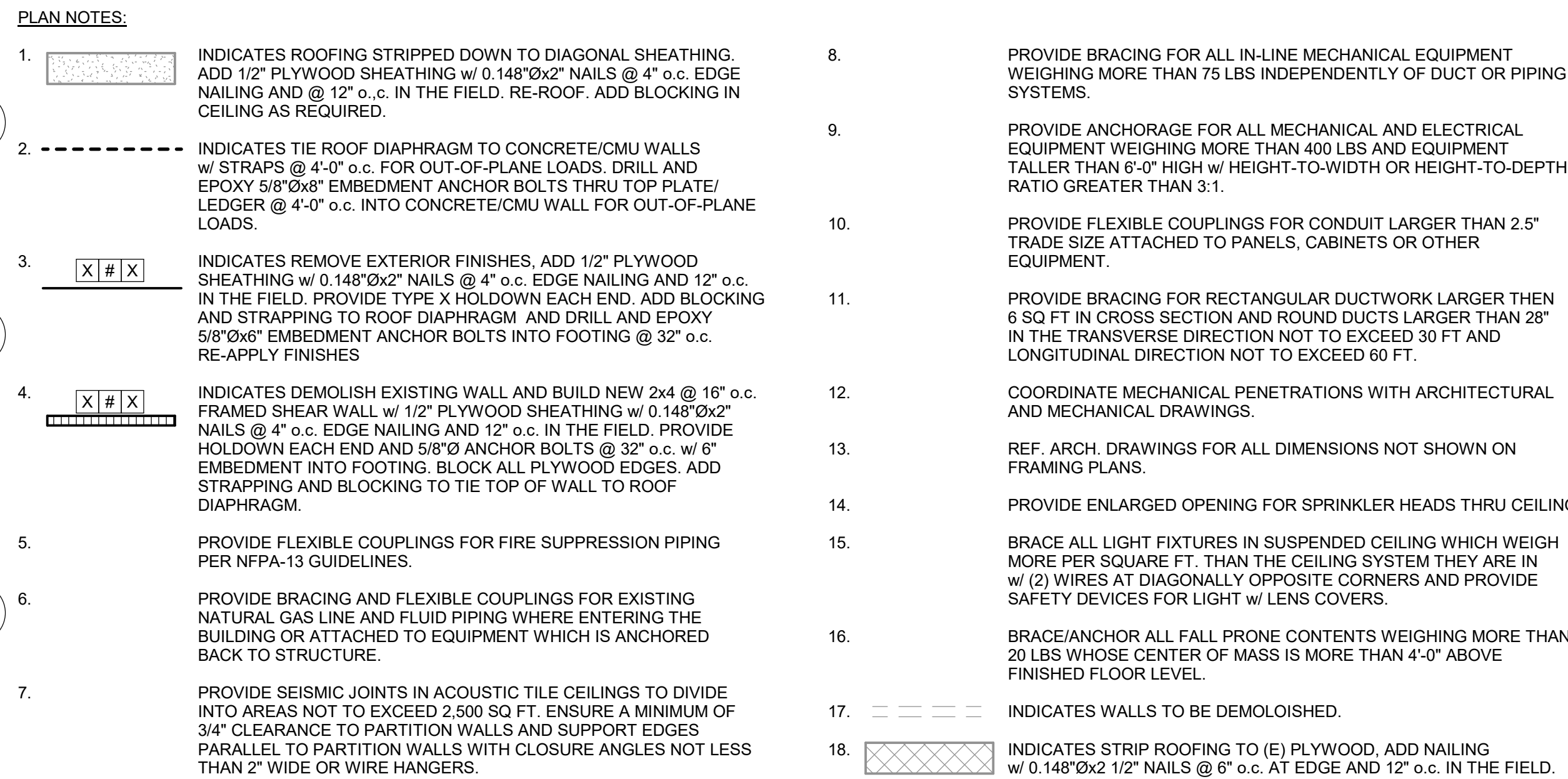
SHEET NUMBER

S1501B

ISSUE

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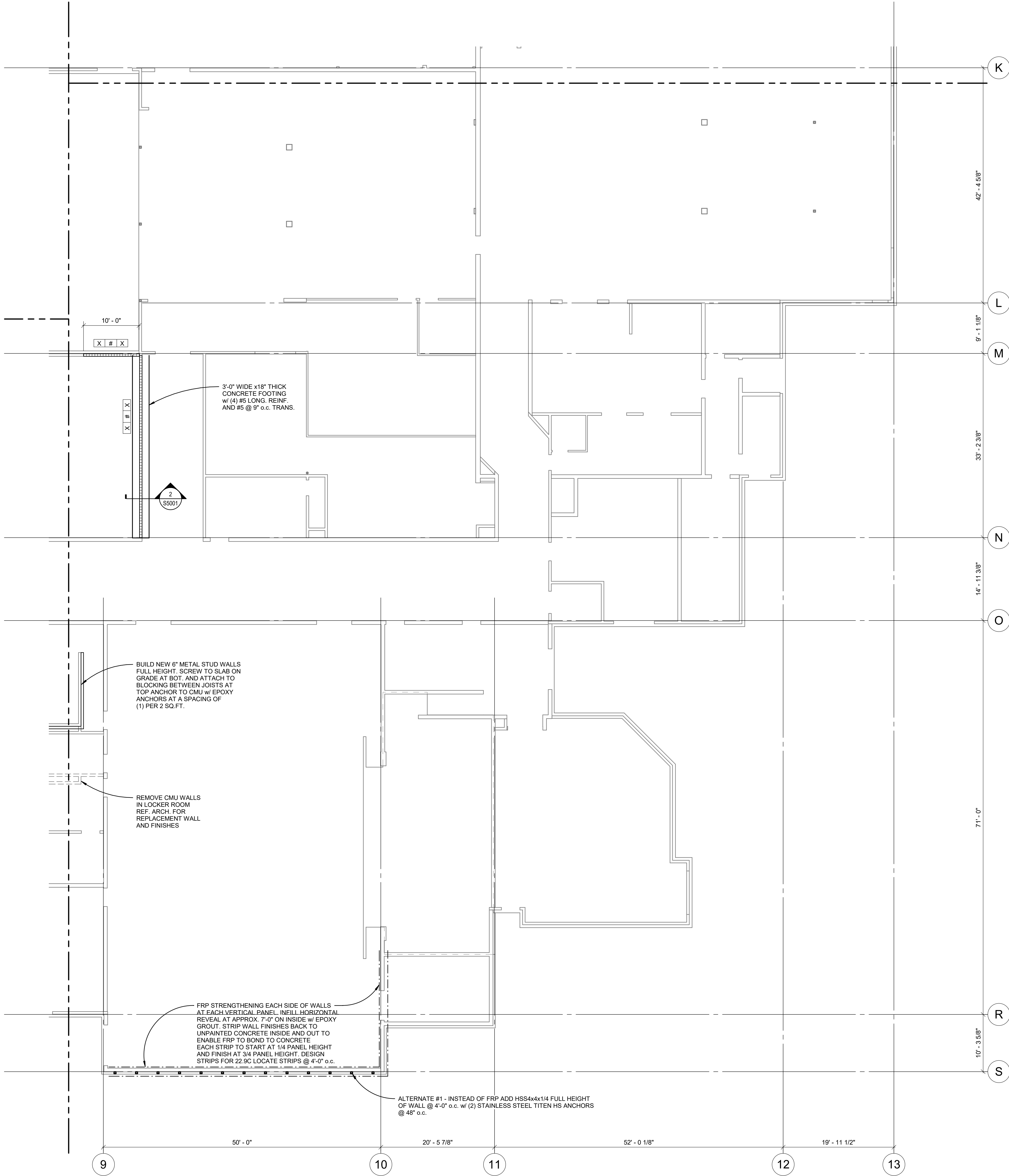




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$$1/8" = 1'-0"$$

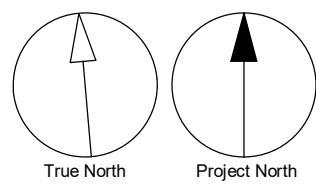
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1 FLOOR PLAN - LEVEL 01 - SECTOR D  
1/8" = 1'-0"

PLAN NOTES:

- INDICATES ROOFING STRIPPED DOWN TO DIAGONAL SHEATHING. ADD 1/2" PLYWOOD SHEATHING w/ 0.148"x2" NAILS @ 4" o.c. EDGE NAILING AND @ 12" o.c. IN THE FIELD. RE-ROOF. ADD BLOCKING IN CEILING AS REQUIRED.
- INDICATES TIE ROOF DIAPHRAGM TO CONCRETE/CMU WALLS w/ STRAPS @ 4'-0" o.c. FOR OUT-OF-PLANE LOADS. DRILL AND EPOXY 5/8"x6" EMBEDMENT ANCHOR BOLTS THRU TOP PLATE/ LEDGER @ 4'-0" o.c. INTO CONCRETE/CMU WALL FOR OUT-OF-PLANE LOADS.
- INDICATES REMOVE EXTERIOR FINISHES. ADD 1/2" PLYWOOD SHEATHING w/ 0.148"x2" 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"x6" EMBEDMENT ANCHOR BOLTS INTO FOOTING @ 32" o.c. RE-APPLY FINISHES
- INDICATES DEMOLISH EXISTING WALL AND BUILD NEW 2x4 @ 16" o.c. FRAMED SHEAR WALL w/ 1/2" PLYWOOD SHEATHING w/ 0.148"x2" NAILS @ 4" o.c. EDGE NAILING AND 12" o.c. IN THE FIELD. PROVIDE 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 DIAPHRAGM.
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- 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.
- 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.
- PROVIDE BRACING FOR ALL IN-LINE MECHANICAL EQUIPMENT WEIGHING MORE THAN 75 LBS INDEPENDENTLY OF DUCT OR PIPING SYSTEMS.
- 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.
- PROVIDE FLEXIBLE COUPLINGS FOR CONDUIT LARGER THAN 2.5" TRADE SIZE ATTACHED TO PANELS, CABINETS OR OTHER EQUIPMENT.
- 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.
- COORDINATE MECHANICAL PENETRATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
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- BRACE/ANCHOR ALL FALL PRONE CONTENTS WEIGHING MORE THAN 20 LBS WHOSE CENTER OF MASS IS MORE THAN 4'-0" ABOVE FINISHED FLOOR LEVEL.
- INDICATES WALLS TO BE DEMOLOISHED.
- INDICATES STRIP ROOFING TO (E) PLYWOOD. ADD NAILING w/ 0.148"x2 1/2" NAILS @ 6" o.c. AT EDGE AND 12" o.c. IN THE FIELD.



CLIENT

Owner

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PROJECT

Beaver Acres ES Seismic Improvements

2125 SW 170th Avenue  
Beaverton, OR 97003

PROJECT NO:

122519

DRAWN BY:

JBD

CHECKED BY:

KPFF

PROJECT MGR:

AS

APPROVED BY:

JLA

SHEET TITLE

FLOOR PLAN - LEVEL 01 - SECTOR D

SHEET NUMBER

S1501D

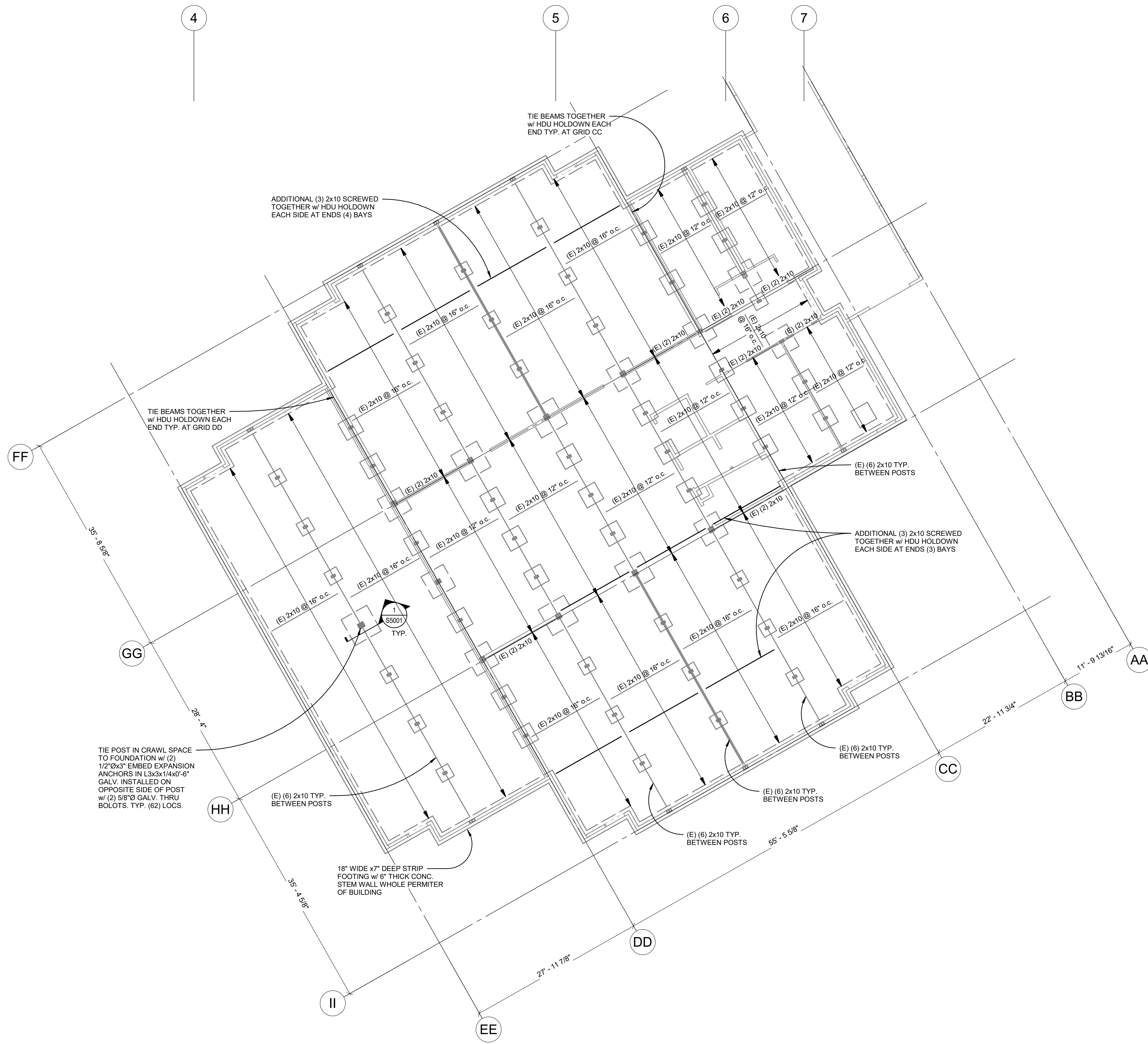
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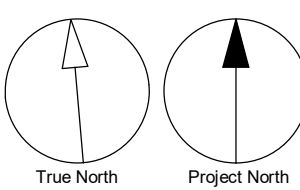
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1 FLOOR PLAN - LEVEL 01 - SECTOR M  
1/8" = 1'-0"


PLAN NOTES:

- 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.
- INDICATES 1/2" PLYWOOD SHEATHED WOOD SHEAR CRIPPLE WALLS IN CRAWL SPACE w/ 2x6 STUDS @ 16" o.c. AND 2'-0" WIDE x1'-0" DEEP STRIP FOOTING w/ 150 LBS/CY REINFORCING. PROVIDE HOLDOWNS EACH END OF SHEAR WALL AND 5/8"x0" 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.
- 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.
- INDICATES DIAGONAL ROD BRACING BETWEEN HIGH ROOF AND LOW ROOF. CONNECT TO WINDOW HEADER AND DOUBLE 2x SILL PLATE WITH STEEL PLATES.
- PROVIDE FLEXIBLE COUPLINGS FOR FIRE SUPPRESSION PIPING PER NFPA-13 GUIDELINES.
- 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.
- 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.
- PROVIDE BRACING FOR ALL IN-LINE MECHANICAL EQUIPMENT WEIGHING MORE THAN 75 LBS INDEPENDENTLY OF DUCT OR PIPING SYSTEMS.
- 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.
- PROVIDE FLEXIBLE COUPLINGS FOR CONDUIT LARGER THAN 2.5" TRADE SIZE ATTACHED TO PANELS, CABINETS OR OTHER EQUIPMENT.
- 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.
- COORDINATE MECHANICAL PENETRATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
- REF. ARCH. DRAWINGS FOR ALL DIMENSIONS NOT SHOWN ON FRAMING PLANS.
- PROVIDE ENLARGED OPENING FOR SPRINKLER HEADS THRU CEILING.
- 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 SAFETY DEVICES FOR LIGHT w/ LENS COVERS.
- 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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tel 503 226 6950 fax 503 273 9192  
ibigroup@edgma.com

PROJECT

**Beaver Acres ES Seismic Improvements**  
2125 SW 170th Avenue  
Beaverton, OR 97003

PROJECT NO:

122519

DRAWN BY:

JBD

CHECKED BY:

KPFF

PROJECT MGR:

AS

APPROVED BY:

JLA

SHEET TITLE

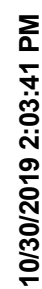
**FLOOR PLAN - LEVEL 01 - SECTOR M**

SHEET NUMBER

**S1501M**

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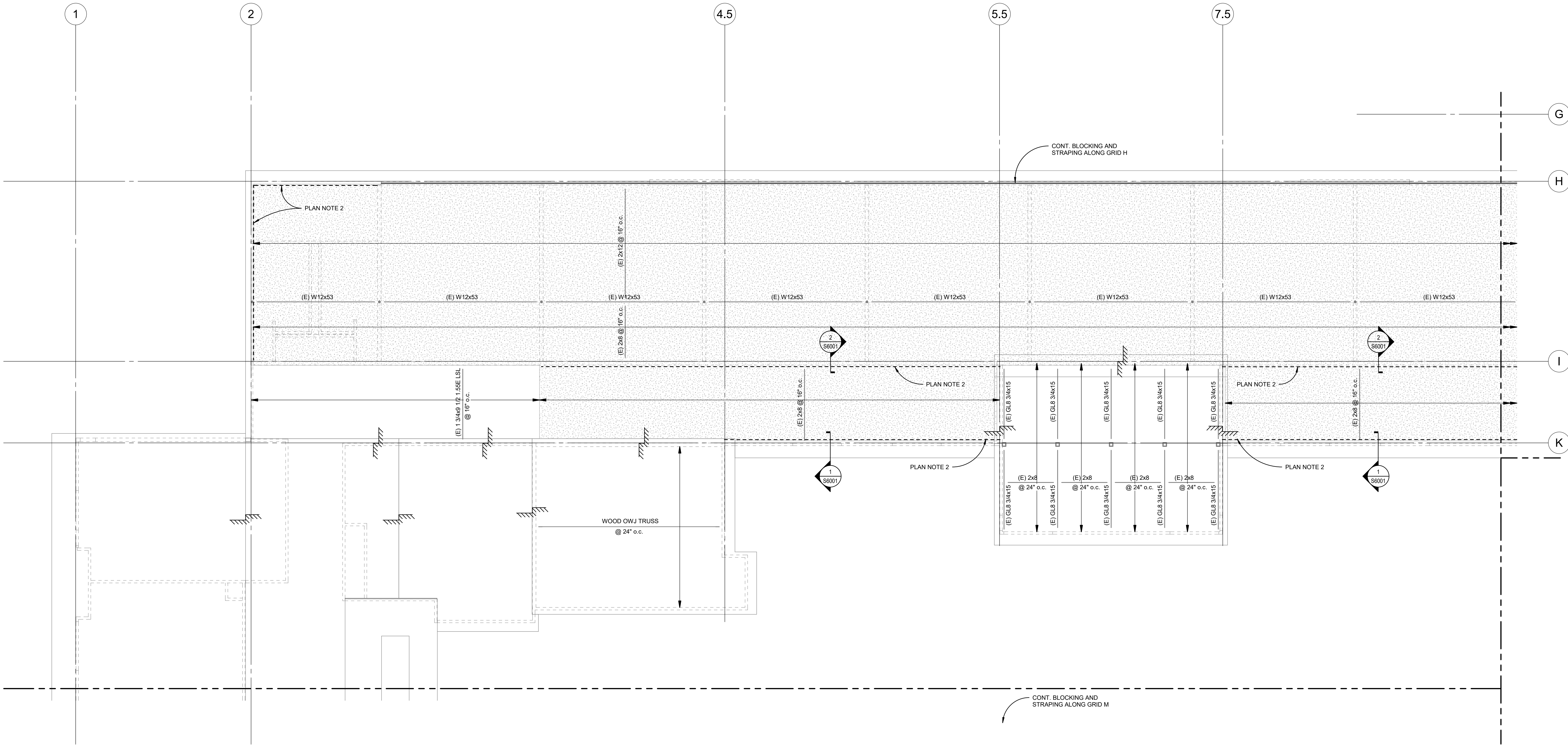


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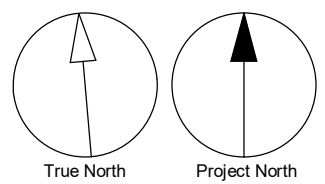
# ROOF FRAMING PLAN - SECTOR B

1/8" = 1'-0"



## PLAN NOTES:

- 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.
- INDICATES THE 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 LOADS.
- INDICATES REMOVE EXTERIOR FINISHES. ADD 1/2" PLYWOOD 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"Øx8" EMBEDMENT ANCHOR BOLTS INTO FOOTING @ 32" o.c. RE-APPLY FINISHES
- 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 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 DIAPHRAGM.
- PROVIDE FLEXIBLE COUPLINGS FOR FIRE SUPPRESSION PIPING PER NFPA-13 GUIDELINES.
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- BRACE/ANCHOR ALL FALL PRONE CONTENTS WEIGHING MORE THAN 20 LBS WHOSE CENTER OF MASS IS MORE THAN 4'-0" ABOVE FINISHED FLOOR LEVEL.
- INDICATES WALLS TO BE DEMOLOISHED.
- 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.



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DRAWN BY:

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PROJECT MGR:

AS

APPROVED BY:

JLA

SHEET TITLE

ROOF FRAMING PLAN - SECTOR B

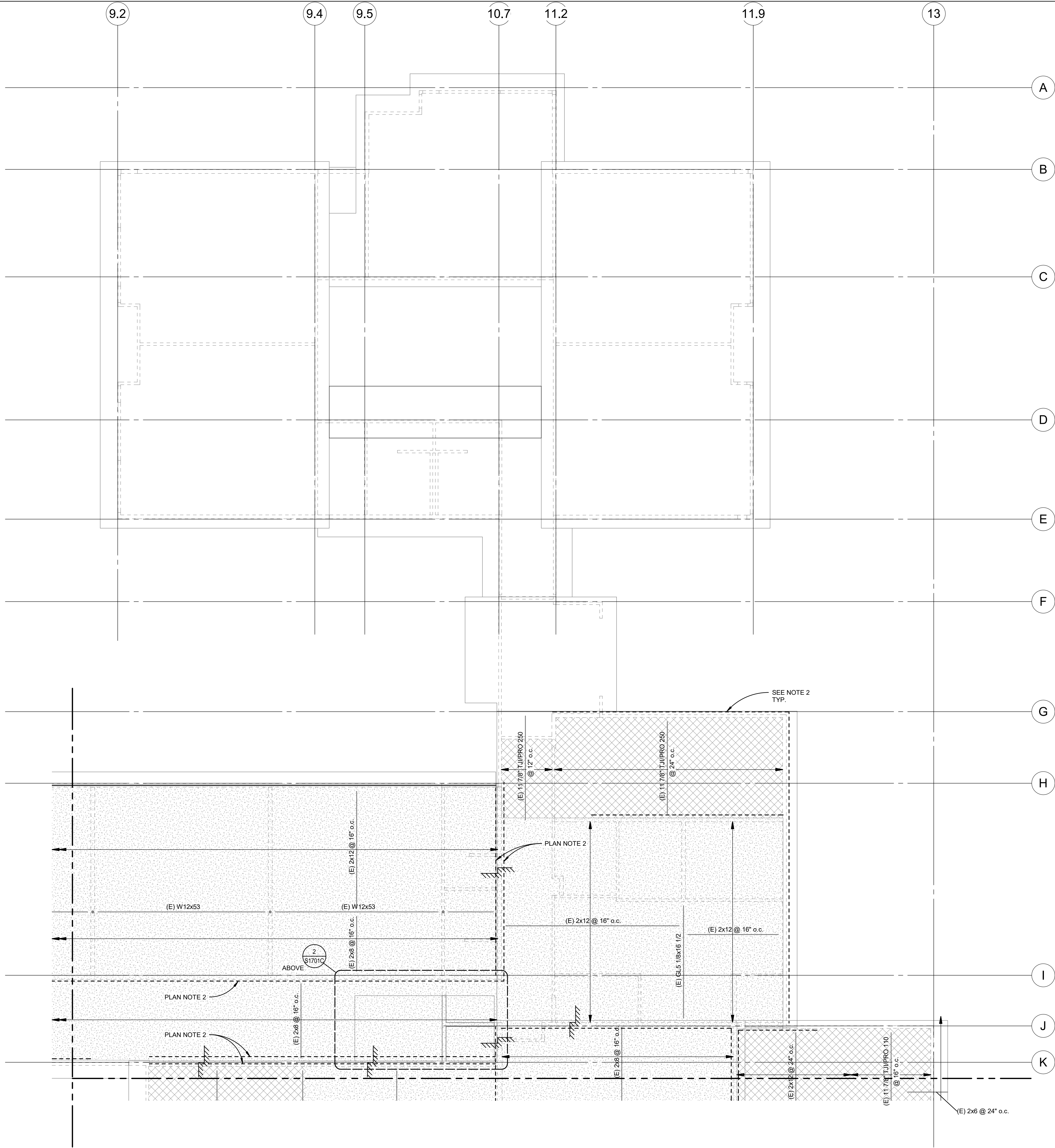
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S1701B

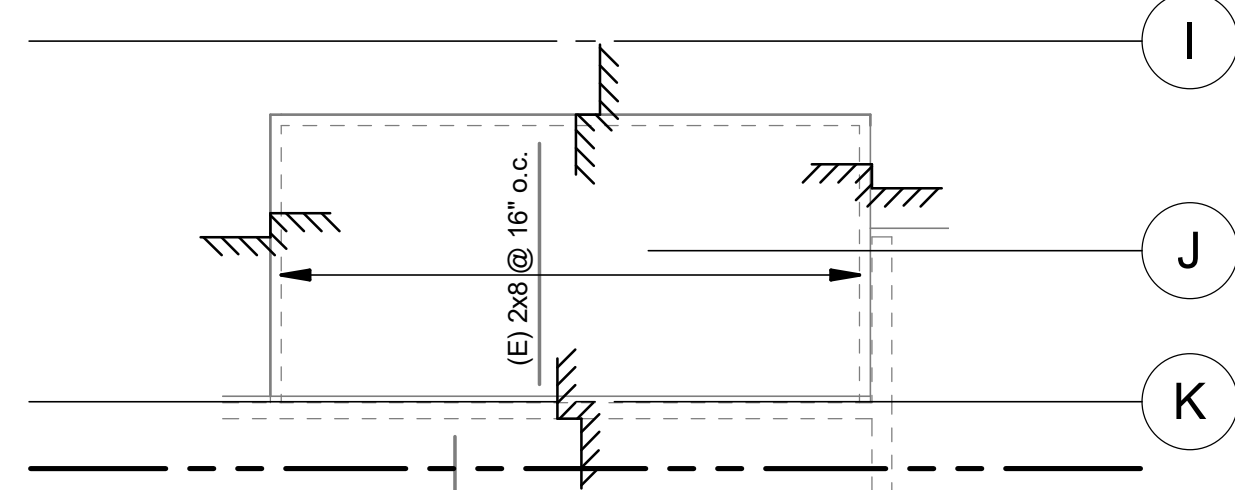
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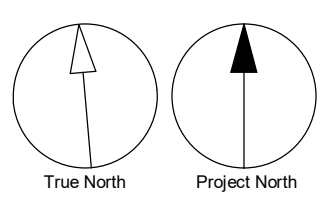
1 ROOF FRAMING PLAN - SECTOR C  
1/8" = 1'-0"



2 DOG HOUSE ROOF PLAN  
1/8" = 1'-0"

PLAN NOTES:

- INDICATES ROOFING STRIPPED DOWN TO DIAGONAL SHEATHING. ADD 1/2" PLYWOOD SHEATHING w/ 0.148"x2" NAILS @ 4" o.c. EDGE NAILING AND @ 12" o.c. IN THE FIELD. RE-ROOF. ADD BLOCKING IN CEILING AS REQUIRED.
- INDICATES TIE ROOF DIAPHRAGM TO CONCRETE/CMU WALLS w/ STRAPS @ 4'-0" o.c. FOR OUT-OF-PLANE LOADS. DRILL AND EPOXY 5/8"x8" EMBEDMENT ANCHOR BOLTS THRU TOP PLATE/ LEDGER @ 4'-0" o.c. INTO CONCRETE/CMU WALL FOR OUT-OF-PLANE LOADS.
- INDICATES REMOVE EXTERIOR FINISHES, ADD 1/2" PLYWOOD SHEATHING w/ 0.148"x2" 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"x8" EMBEDMENT ANCHOR BOLTS INTO FOOTING @ 32" o.c. RE-APPLY FINISHES.
- INDICATES DEMOLISH EXISTING WALL AND BUILD NEW 2x4 @ 16" o.c. FRAMED SHEAR WALL w/ 1/2" PLYWOOD SHEATHING w/ 0.148"x2" NAILS @ 4" o.c. EDGE NAILING AND 12" o.c. IN THE FIELD. PROVIDE HOLDOWN EACH END AND 5/8"x8" 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 DIAPHRAGM.
- PROVIDE FLEXIBLE COUPLINGS FOR FIRE SUPPRESSION PIPING PER NFPA-13 GUIDELINES.
- 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.
- 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.
- PROVIDE BRACING FOR ALL IN-LINE MECHANICAL EQUIPMENT WEIGHING MORE THAN 75 LBS INDEPENDENTLY OF DUCT OR PIPING SYSTEMS.
- 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.
- PROVIDE FLEXIBLE COUPLINGS FOR CONDUIT LARGER THAN 2.5" TRADE SIZE ATTACHED TO PANELS, CABINETS OR OTHER EQUIPMENT.
- 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.
- COORDINATE MECHANICAL PENETRATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
- REF. ARCH. DRAWINGS FOR ALL DIMENSIONS NOT SHOWN ON FRAMING PLANS.
- PROVIDE ENLARGED OPENING FOR SPRINKLER HEADS THRU CEILING.
- 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 SAFETY DEVICES FOR LIGHT W/ LENS COVERS.
- BRACE/ANCHOR ALL FALL PRONE CONTENTS WEIGHING MORE THAN 20 LBS WHOSE CENTER OF MASS IS MORE THAN 4'-0" ABOVE FINISHED FLOOR LEVEL.
- INDICATES WALLS TO BE DEMOLISHED.
- INDICATES STRIP ROOFING TO (E) PLYWOOD. ADD NAILING w/ 0.148"x2 1/2" NAILS @ 6" o.c. AT EDGE AND 12" o.c. IN THE FIELD.



CLIENT



Owner

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Beaverton, OR 97003

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ibi-group@edg.com

PROJECT

Beaver Acres ES Seismic Improvements

2125 SW 170th Avenue  
Beaverton, OR 97003

PROJECT NO:

122519

DRAWN BY:

JBD

CHECKED BY:

KPFF

PROJECT MGR:

AS

APPROVED BY:

JLA

SHEET TITLE

ROOF FRAMING PLAN - SECTOR C

SHEET NUMBER

S1701C

ISSUE

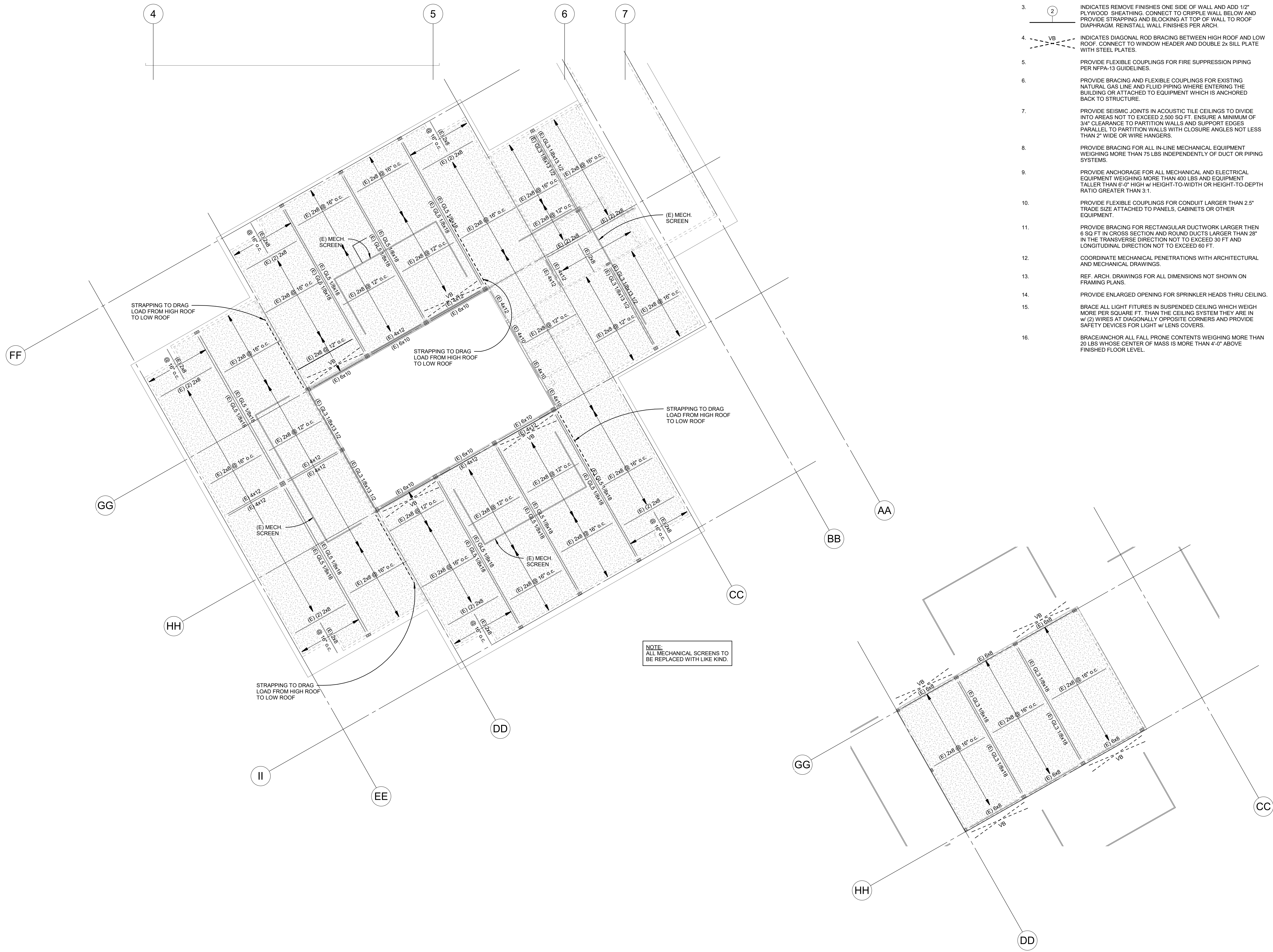
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10/30/2019 2:03:47 PM



- PLAN NOTES:**
- 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.
  - 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.
  - 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.
  - INDICATES DIAGONAL ROD BRACING BETWEEN HIGH ROOF AND LOW ROOF. CONNECT TO WINDOW HEADER AND DOUBLE 2x SILL PLATE WITH STEEL PLATES.
  - PROVIDE FLEXIBLE COUPLINGS FOR FIRE SUPPRESSION PIPING PER NFPA-13 GUIDELINES.
  - 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.
  - 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.
  - 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.
  - COORDINATE MECHANICAL PENETRATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
  - REF. ARCH. DRAWINGS FOR ALL DIMENSIONS NOT SHOWN ON FRAMING PLANS.
  - PROVIDE ENLARGED OPENING FOR SPRINKLER HEADS THRU CEILING.
  - 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.
  - BRACE/ANCHOR ALL FALL PRONE CONTENTS WEIGHING MORE THAN 20 LBS WHOSE CENTER OF MASS IS MORE THAN 4'-0" ABOVE FINISHED FLOOR LEVEL.

CLIENT

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PROJECT

Beaver Acres ES Seismic Improvements

2125 SW 170th Avenue  
Beaverton, OR 97003

PROJECT NO:

122519

DRAWN BY:

JBD

CHECKED BY:

KPFF

PROJECT MGR:

AS

APPROVED BY:

JLA

SHEET TITLE

ROOF FRAMING PLAN - SECTOR M

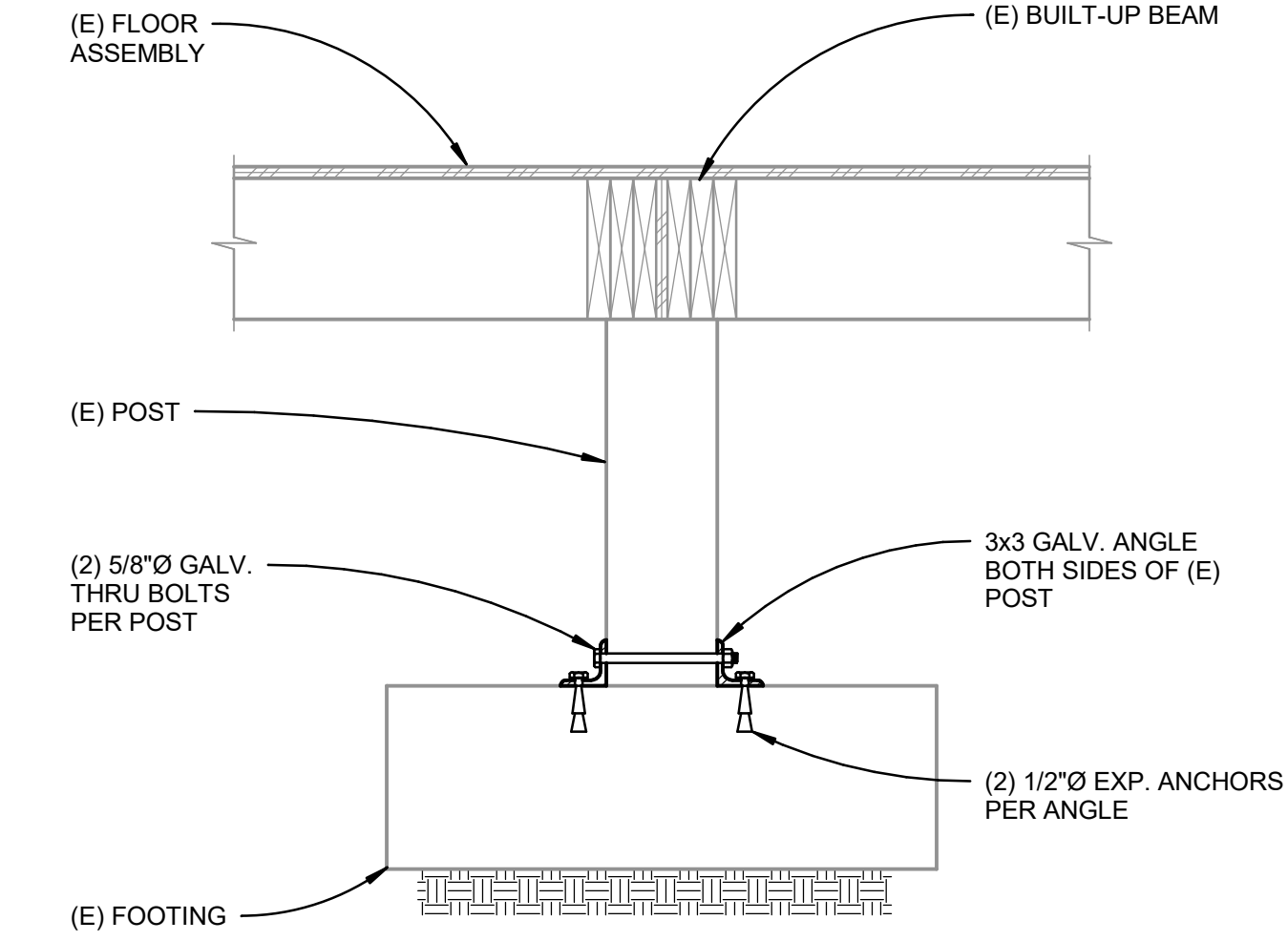
SHEET NUMBER

S1701M

ISSUE

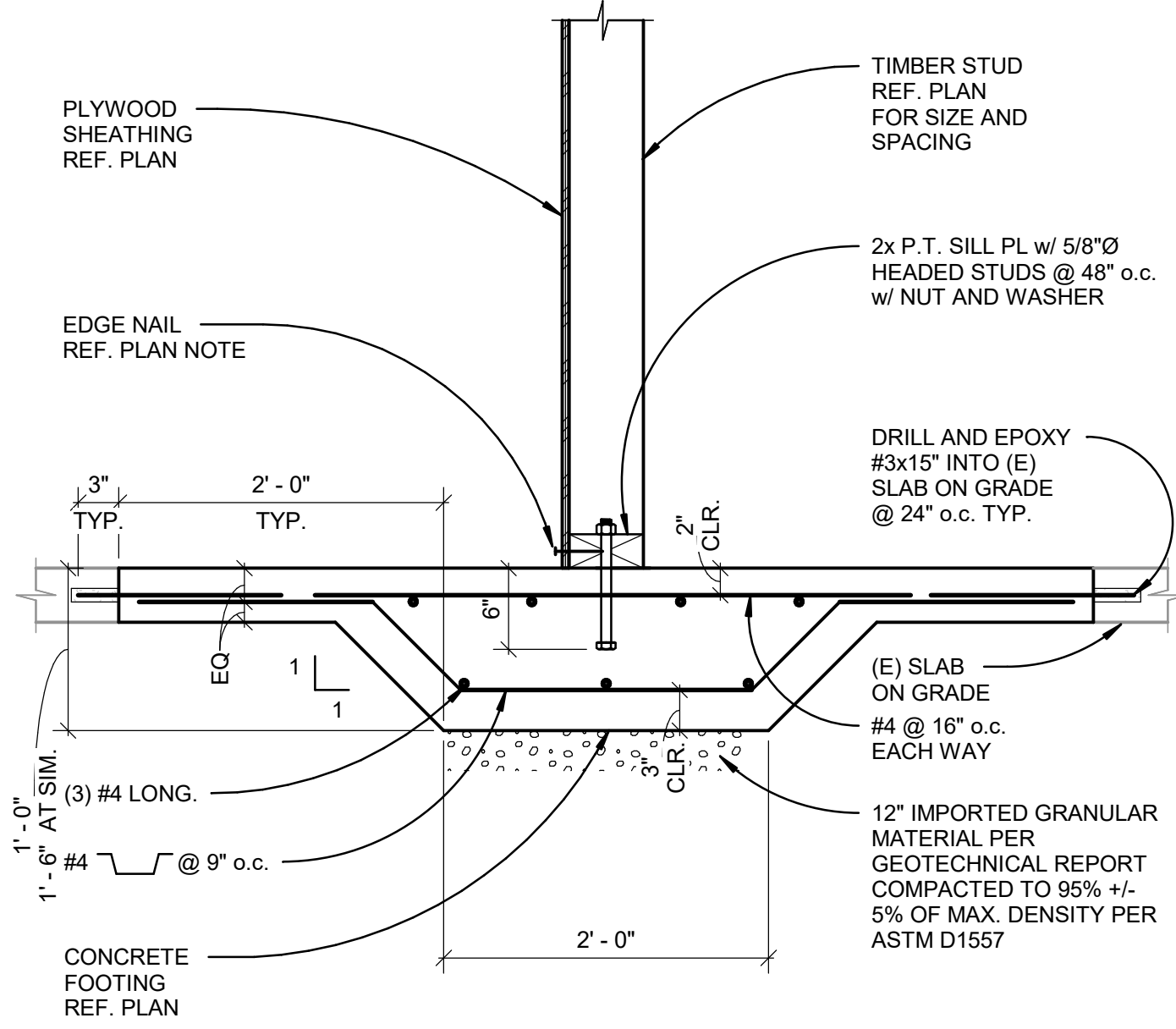
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1 POST CONN. STRENGTHENING

1" = 1'-0"



2 (N) SHEAR WALL FOOTING DETAIL

1" = 1'-0"

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PROJECT

**Beaver Acres ES Seismic Improvements**  
2125 SW 170th Avenue  
Beaverton, OR 97003

PROJECT NO:

122519

DRAWN BY:

JBD

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KPFF

PROJECT MGR:

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JLA

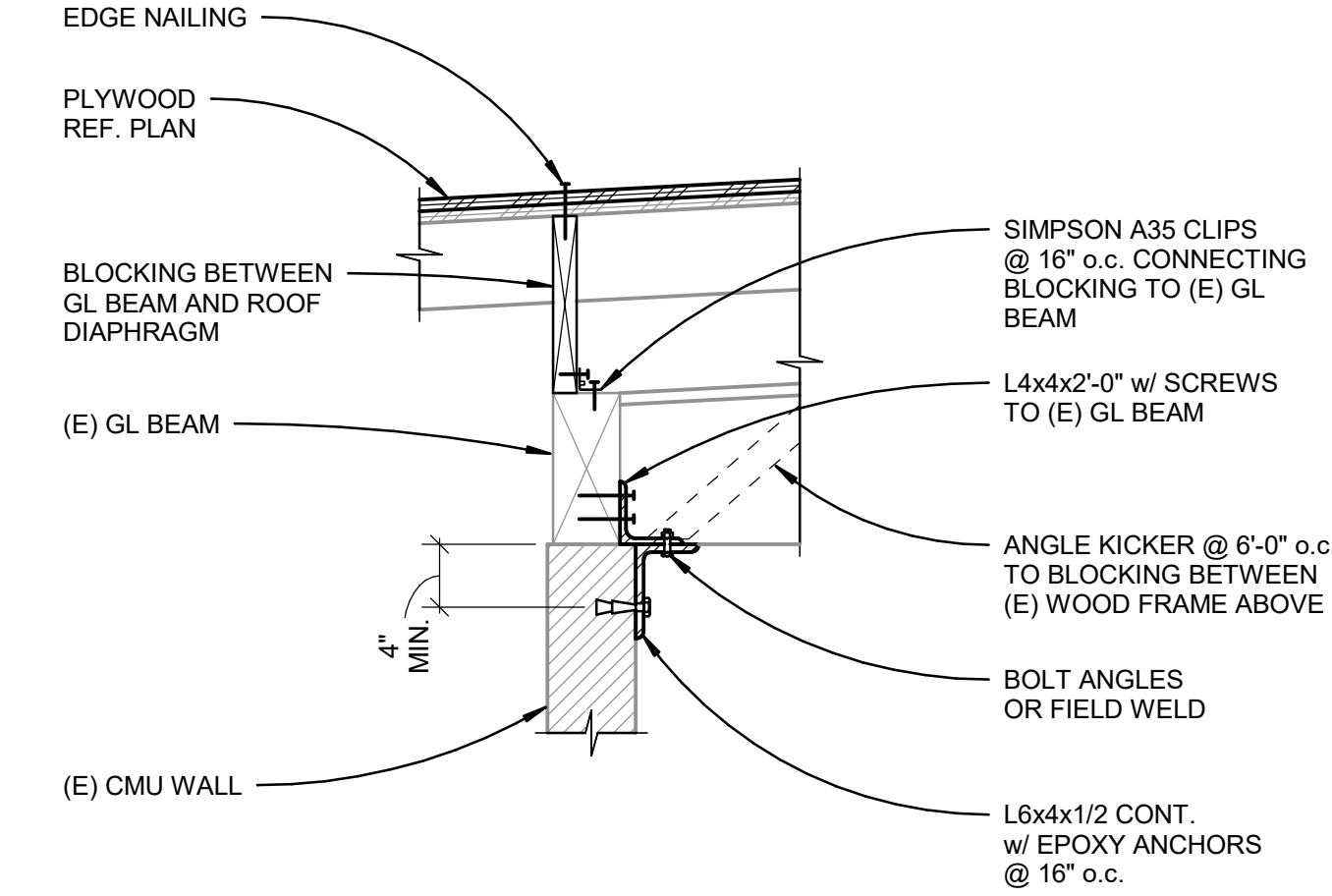
SHEET TITLE

CONCRETE DETAILS

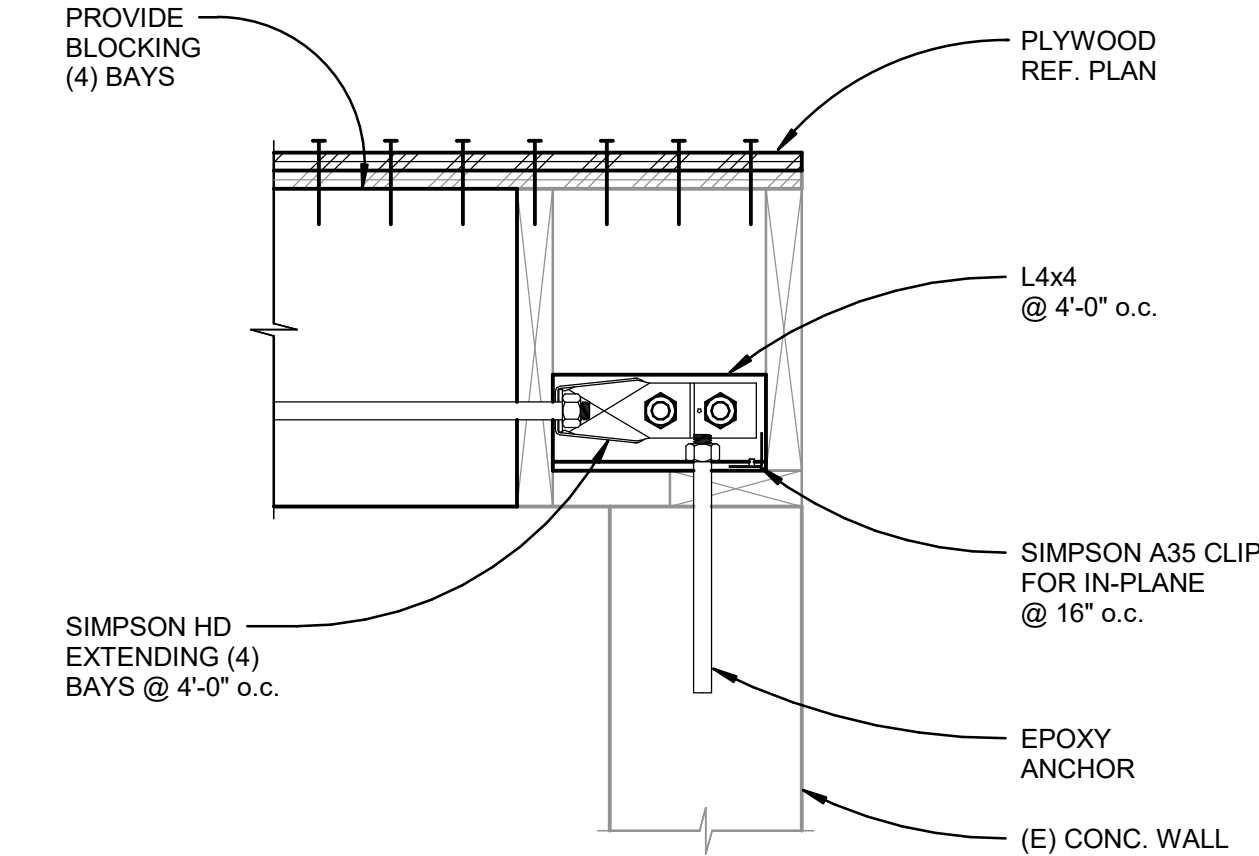
SHEET NUMBER

S5001

ISSUE



1 CMU WALL ANCHORAGE  
1" = 1'-0"



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

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2125 SW 170th Avenue  
Beaverton, OR 97003

PROJECT NO:

122519

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JBD

CHECKED BY:

KPFF

PROJECT MGR:

AS

APPROVED BY:

JLA

SHEET TITLE

FRAMING DETAILS

SHEET NUMBER

S6001

ISSUE



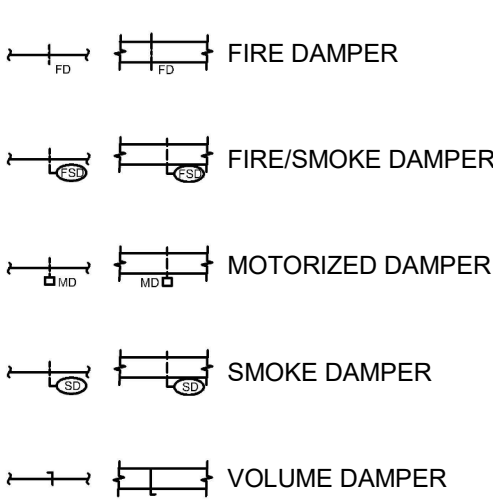
MECHANICAL SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

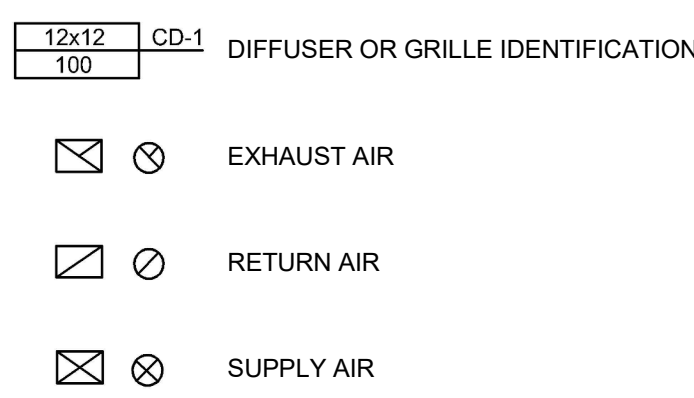
Abbreviations

AFF ABOVE FINISHED FLOOR  
AD ACCESS DOOR  
AC AIR CONDITIONED  
BDD BACKDRAFT DAMPER  
BFP BACKFLOW PREVENTER  
BFF BELOW FINISHED FLOOR  
BHP BRAKE HORSEPOWER  
CD CEILING DIFFUSER  
CV CHECK VALVE  
COP COEFFICIENT OF PERFORMANCE  
CW COLD WATER  
CDD CONDENSATE DRAIN  
CU CONDENSING UNIT  
CONT. CONTINUATION  
DB DECIBEL  
(X) DEMOLISH  
DIA DIAMETER  
DX DIRECT EXPANSION  
D DROP  
DB DRY BULB  
EFF EFFICIENT  
ELECT ELECTRICAL  
EER ENERGY EFFICIENCY RATING  
EAT ENTERING AIR TEMPERATURE  
EWT ENTERING WATER TEMPERATURE  
EXH EXHAUST  
EF EXHAUST FAN  
(E) EXISTING  
F FAHRENHEIT  
FT FEET  
FD FIRE DAMPER  
FLA FULL LOAD AMPS  
GAL GALLONS  
GPH GALLONS PER HOUR  
GPM GALLONS PER MINUTE  
HD HEAD  
HTR HEATER  
HTG HEATING  
HP HORSEPOWER  
HWC HOT WATER COIL  
IN INCHES  
ID INSIDE DIAMETER  
IE INVERT ELEVATION  
KW KILOWATT  
LH LATENT HEAT  
LAT LEAVING AIR TEMPERATURE  
MAX MAXIMUM  
MIN MINIMUM  
MA MIXED AIR  
MD MOTORIZED DAMPER  
N/A NOT APPLICABLE  
NIC NOT IN CONTRACT  
NTS NOT TO SCALE  
NO NUMBER  
OC ON CENTER  
OSD OPPOSED BLADE DAMPER  
OA OUTSIDE AIR  
OD OUTSIDE DIAMETER  
PH PHASE  
LBS POUNDS  
PSI POUNDS PER SQUARE INCH  
PD PRESSURE DROP  
PRV PRESSURE REDUCING VALVE  
QTY QUANTITY  
(R) RELOCATE/RELOCATED LOCATION  
RET RETURN  
RA RETURN AIR  
RPM REVOLUTIONS PER MINUTE  
R RISE  
SEER SEASONAL ENERGY EFFICIENCY RATING  
SH SENSIBLE HEAT  
SOV SHUT OFF VALVE  
SF SQUARE FEET  
SP STATIC PRESSURE  
SA SUPPLY AIR  
T, TEMP TEMPERATURE  
TD TEMPERATURE DIFFERENCE  
MBH THOUSAND BTU'S PER HOUR  
TH TOTAL HEAT  
TP TOTAL PRESSURE  
V VOLT  
WC WATER COLUMN  
W WATT  
WB WET BULB  
WI WITH

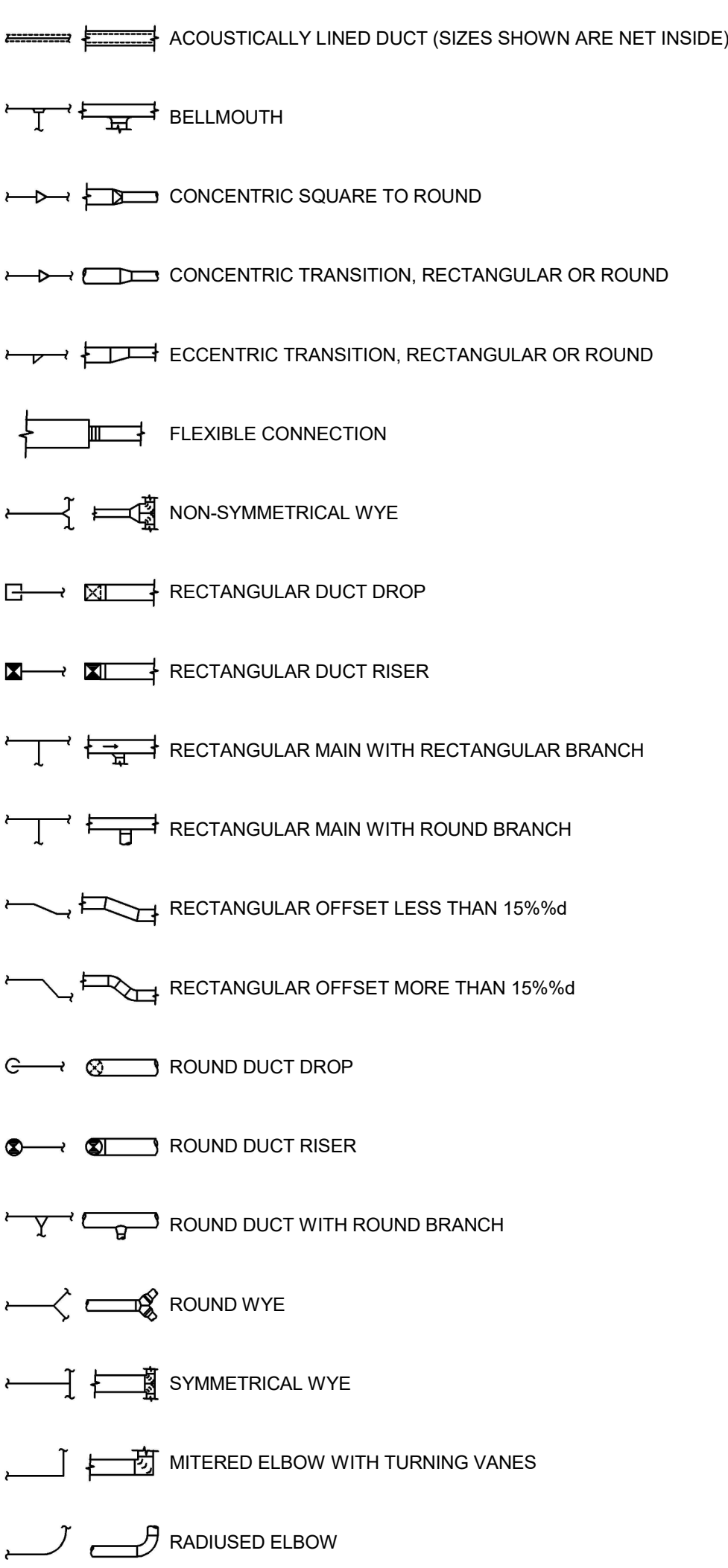
Dampers



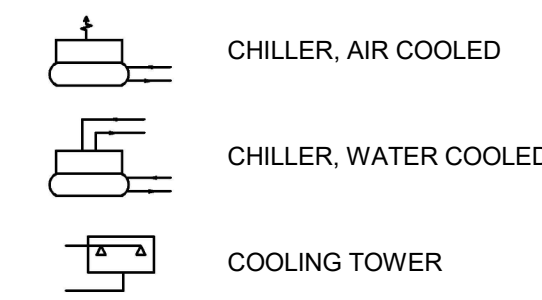
Diffusers and Grilles



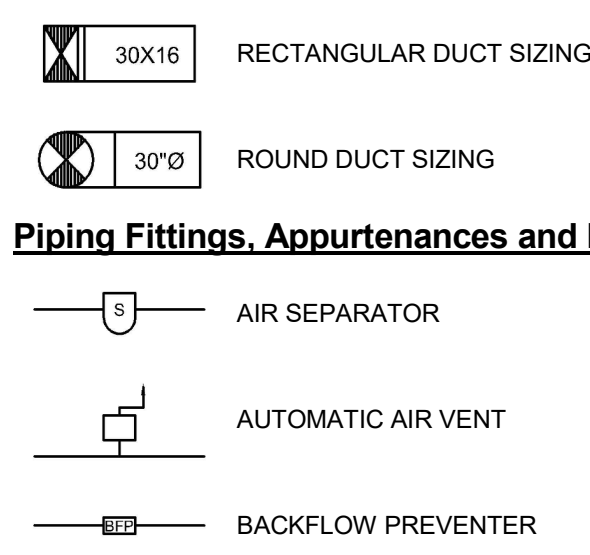
Ductwork Fittings



Equipment

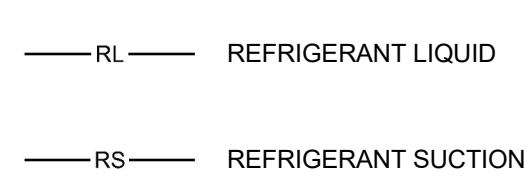


General

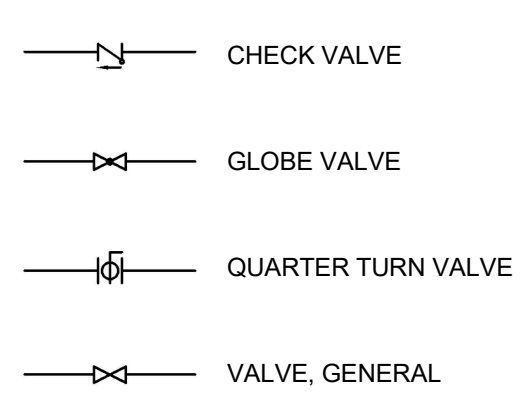


Piping Fittings, Appurtenances and Equipment

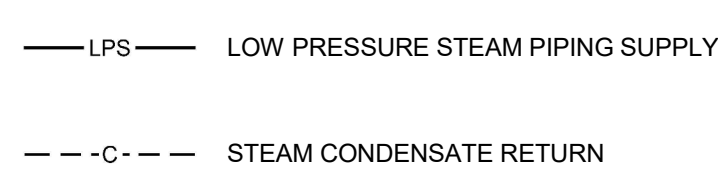
Piping Systems



Piping Valves



Steam Piping



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.

1956/1956/1959 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 reinstalled to accomplish the seismic work.

Library

**Existing Conditions**  
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. **Cafeteria**  
**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. **Gymnasium**  
**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.

Cafeteria

**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. **Gymnasium**  
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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

M001	SYMBOL LIST AND GENERAL NOTES - MECHANICAL
MD201	LEVEL 01 - DEMOLITION PLAN - MECHANICAL
MD201A	LEVEL 01 - DEMOLITION PLAN - SECTOR A - MECHANICAL
MD201B	LEVEL 01 - DEMOLITION PLAN - SECTOR B - MECHANICAL
MD201C	LEVEL 01 - DEMOLITION PLAN - SECTOR C - MECHANICAL
MD201D	LEVEL 01 - DEMOLITION PLAN - SECTOR D - MECHANICAL
M201	FLOOR PLAN - LEVEL 01 - OVERALL - MECHANICAL
M201A	FLOOR PLAN - LEVEL 01 - SECTOR A - MECHANICAL
M201B	FLOOR PLAN - LEVEL 01 - SECTOR B - MECHANICAL
M201C	FLOOR PLAN - LEVEL 01 - SECTOR C - MECHANICAL
M201D	FLOOR PLAN - LEVEL 01 - SECTOR D - MECHANICAL
M301	ROOF PLAN - OVERALL - MECHANICAL

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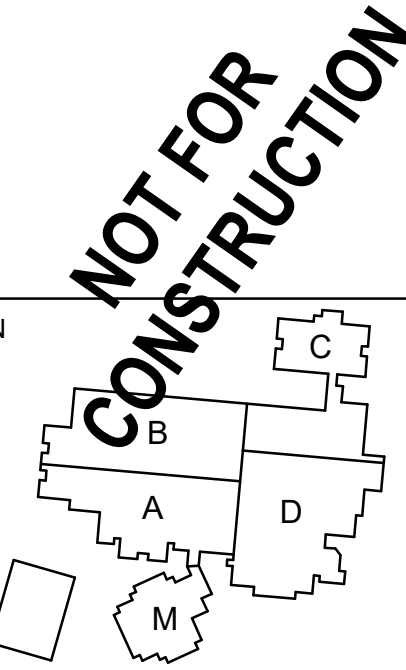
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2	100% DESIGN DEVELOPMENT	11.01.19

KEYPLAN

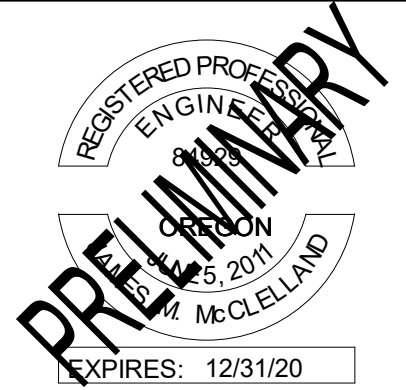


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PROJECT

Beaver Acres ES Seismic Improvements  
2125 SW 170th Avenue  
Beaverton, OR 97003

PROJECT NO:

122519

DRAWN BY:

Author

PROJECT MGR:

GKW

CHECKED BY:

GKW

APPROVED BY:

Approver

SHEET TITLE

SYMBOL LIST AND GENERAL NOTES - MECHANICAL

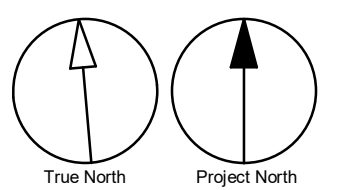
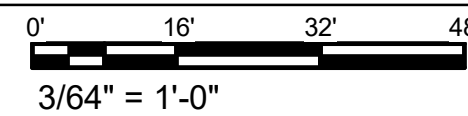
SHEET NUMBER

M001

ISSUE

2

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





**SHEET KEYNOTES**

- 1 REMOVE EXISTING FIN-TUBE RADIATION TO COMPLETE EXTERIOR WALL SHEATHING.
- 2 COORDINATE WALL SHEATHING WITH EXISTING DUCTWORK.

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Beaverton School District

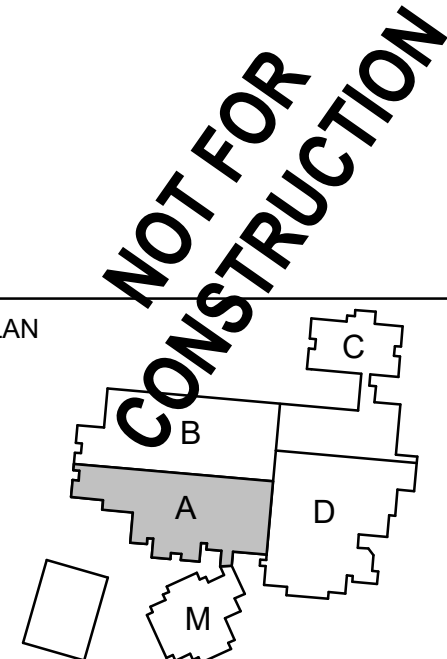


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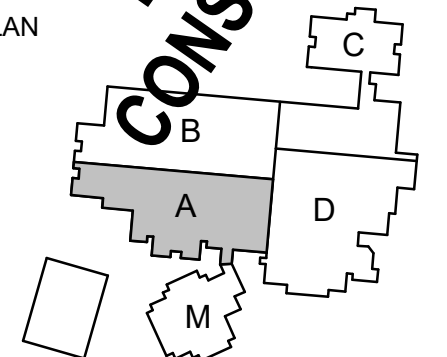
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KEYPLAN



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**PROJECT**  
**Beaver Acres ES Seismic Improvements**  
2125 SW 170th Avenue  
Beaverton, OR 97003

**PROJECT NO:**  
122519

**DRAWN BY:**  
Author

**CHECKED BY:**  
Checker

**PROJECT MGR:**  
Designer

**APPROVED BY:**  
Approver

**SHEET TITLE**

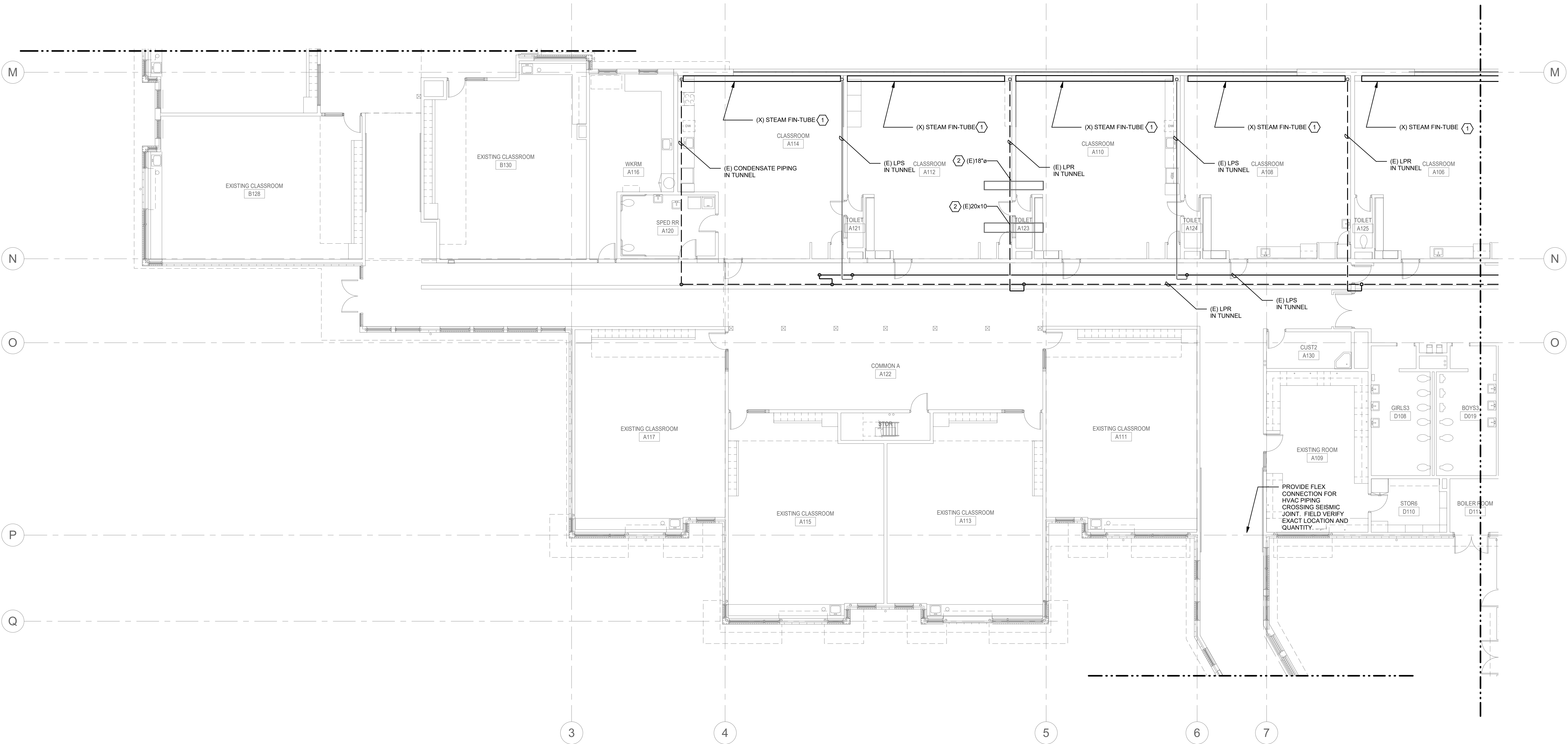
**DEMO FLOOR PLAN - SECTOR A - MECHANICAL**

**SHEET NUMBER**

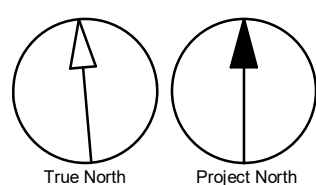
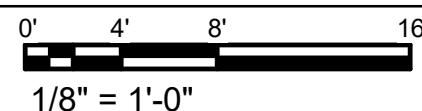
**MD201A**

**ISSUE**

**2**



**1 LEVEL 01 - MECHANICAL PLAN - DEMO - OVERALL - SECTOR A**



SHEET KEYNOTES

- 1 REMOVE EXISTING FIN-TUBE RADIATION TO COMPLETE EXTERIOR WALL SHEATHING.
- 2 COORDINATE WALL SHEATHING WITH EXISTING DUCTWORK.

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Beaverton School District

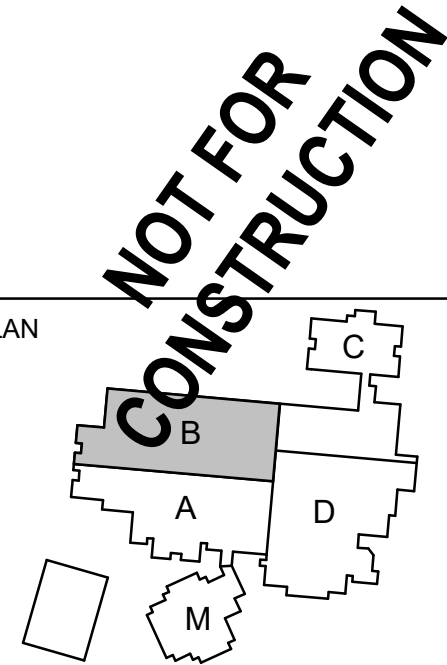


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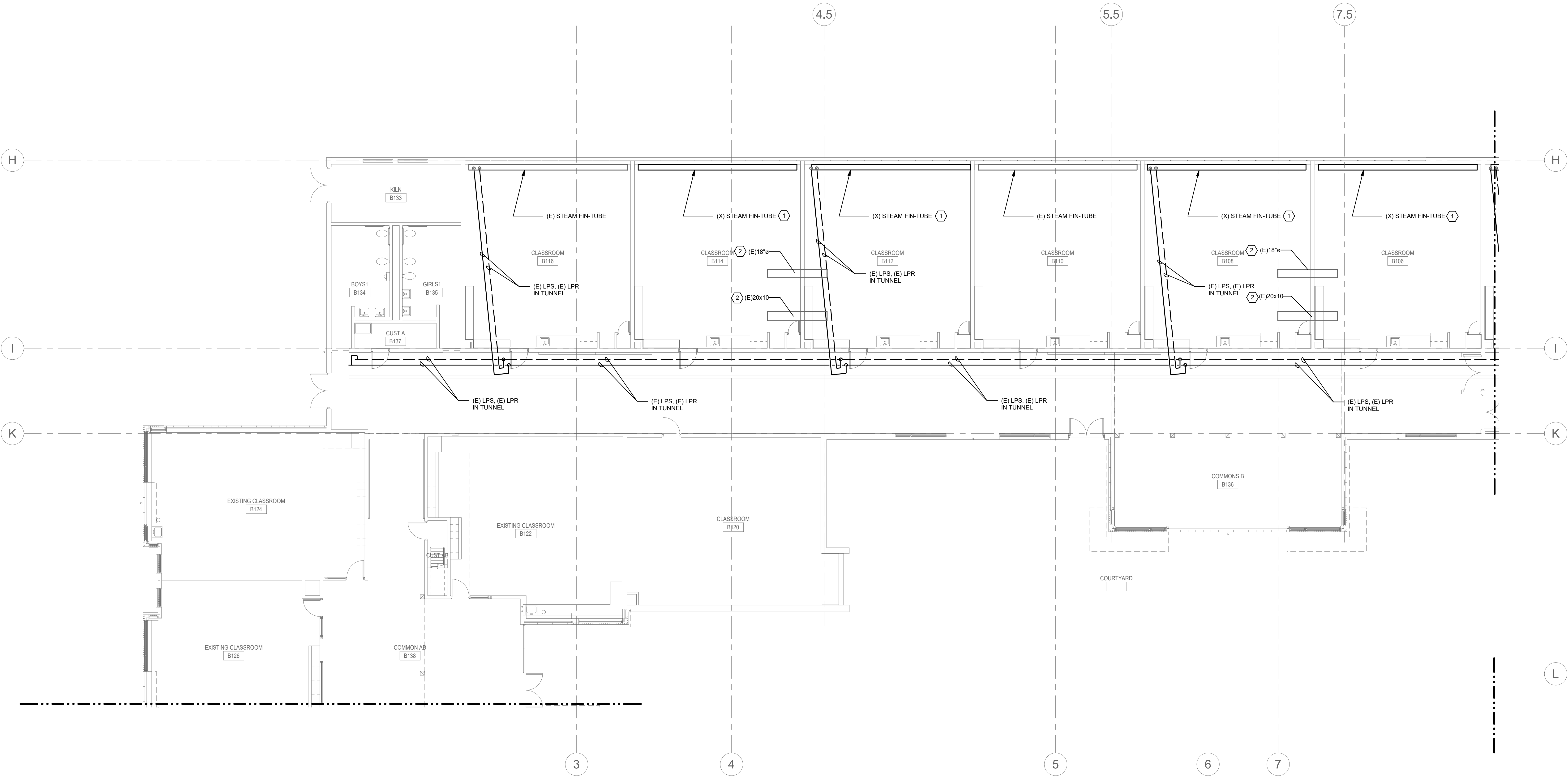
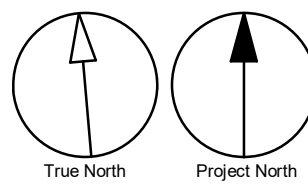
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**PROJECT**  
**Beaver Acres ES Seismic Improvements**  
2125 SW 170th Avenue  
Beaverton, OR 97003

**PROJECT NO:** 122519  
**DRAWN BY:** Author  
**PROJECT MGR:** Designer  
**CHECKED BY:** Checker  
**APPROVED BY:** Approver

**SHEET TITLE**  
**DEMO FLOOR PLAN - SECTOR B - MECHANICAL**

**SHEET NUMBER** MD201B  
**ISSUE** 2

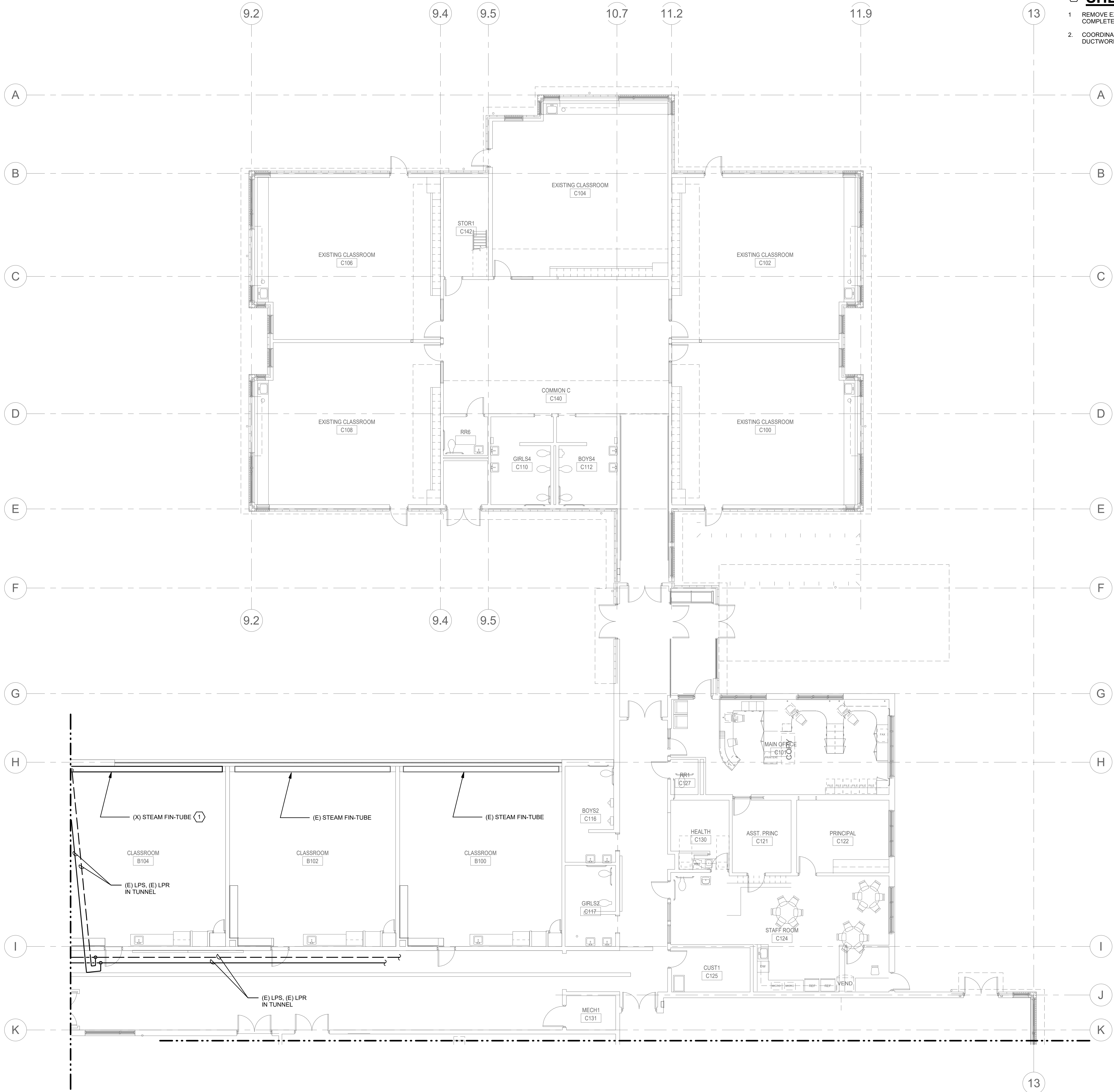


1 LEVEL 01 - MECHANICAL PLAN - DEMO - OVERALL - SECTOR B

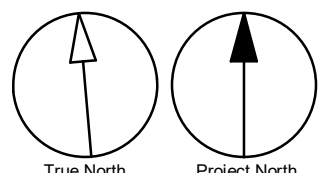
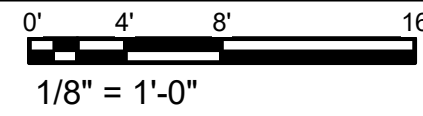
0' 4' 8' 16'  
1/8" = 1'-0"



10/30/2019 3:24:53 PM



1 LEVEL 01 - MECHANICAL PLAN - DEMO - OVERALL - SECTOR C



### SHEET KEYNOTES

- 1 REMOVE EXISTING FIN-TUBE RADIATION TO COMPLETE EXTERIOR WALL SHEATHING.
- 2 COORDINATE WALL SHEATHING WITH EXISTING DUCTWORK.

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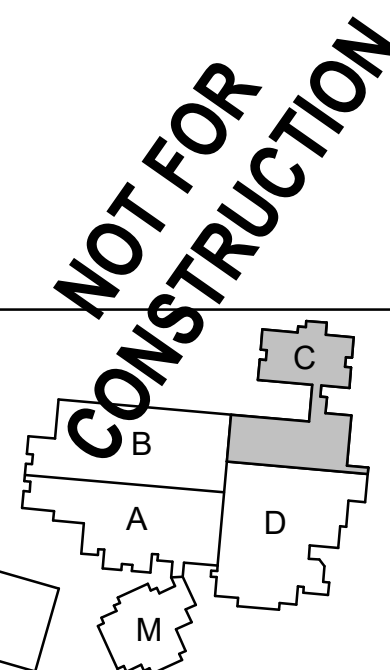


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2125 SW 170th Avenue  
Beaverton, OR 97003

PROJECT NO:  
122519

DRAWN BY:  
Author

CHECKED BY:  
Checker

PROJECT MGR:  
Designer

APPROVED BY:  
Approver

#### SHEET TITLE

**DEMO FLOOR PLAN - SECTOR C - MECHANICAL**

SHEET NUMBER

**MD201C**

ISSUE

**2**

C:\Revit Local Files\BeaverAcres\_MEP\Central\_R18\_bayplan.rvt

**NOT FOR CONSTRUCTION**

The map shows the Dallas area divided into five regions. Region D, located in the southeast, is shaded gray. Regions A, B, C, and M are unshaded. Region A is in the southwest, B is in the northwest, C is in the northeast, and M is in the south. A diagonal line runs from the top left to the bottom right, passing through the center of the map.

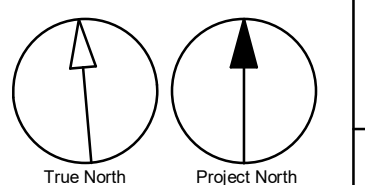
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ENGINEER  
81925  
OREGON  
JAN 5, 2011  
M. McClelland  
EXPIRES: 12/31/20

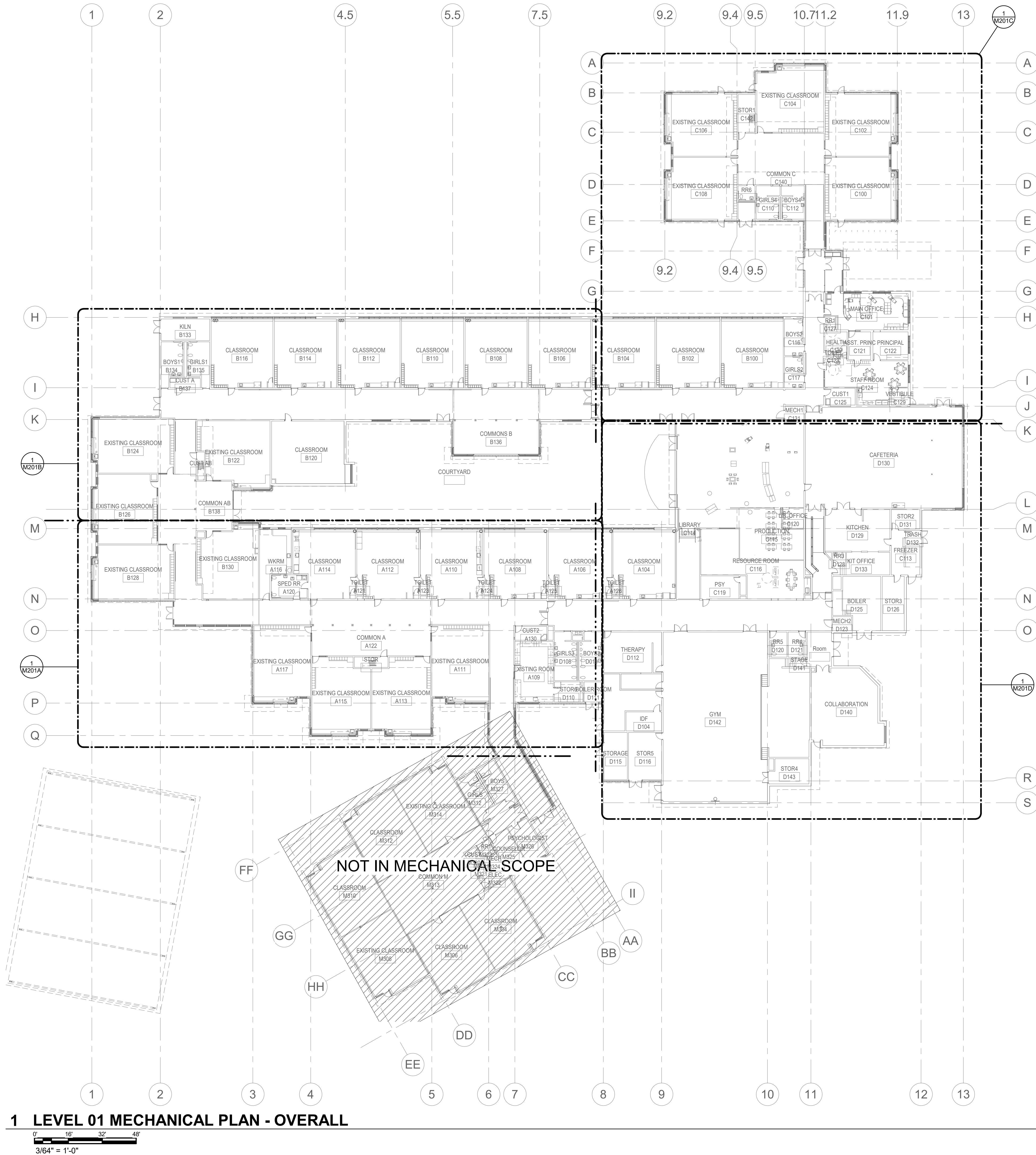
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2

SALE CHECK







1 LEVEL 01 MECHANICAL PLAN - OVERALL

## 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.

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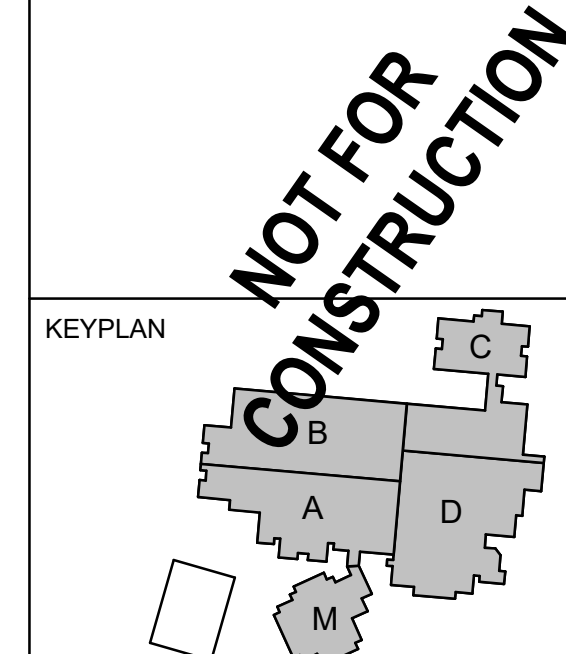


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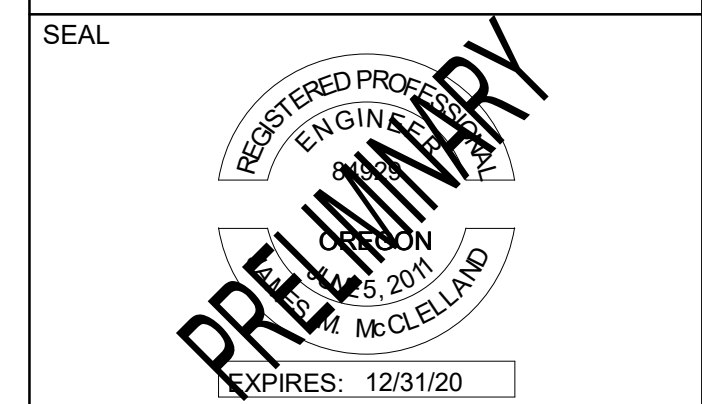
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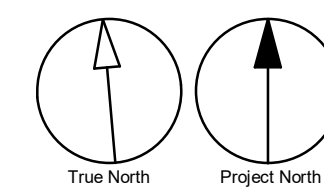
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**PROJECT**  
**Beaver Acres ES Seismic Improvements**  
2125 SW 170th Avenue  
Beaverton, OR 97003

**PROJECT NO:** 122519  
**DRAWN BY:** Author  
**PROJECT MGR:** Designer  
**CHECKED BY:** Checker  
**APPROVED BY:** Approver

**SHEET TITLE**  
**FIRST FLOOR PLAN OVERALL - MECHANICAL**

**SHEET NUMBER** M201  
**ISSUE** 2



**SHEET KEYNOTES**

- COORDINATE WALL SHEATHING WITH EXISTING DUCTWORK.
- PROVIDE NEW FIN-TUBE RADIATOR. EXTEND NEW STEAM AND CONDENSATE PIPING FROM EXISTING.

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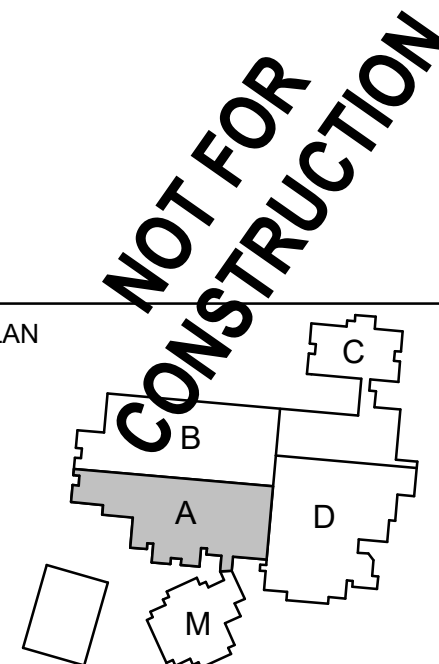


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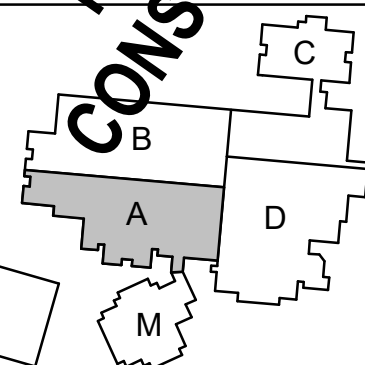
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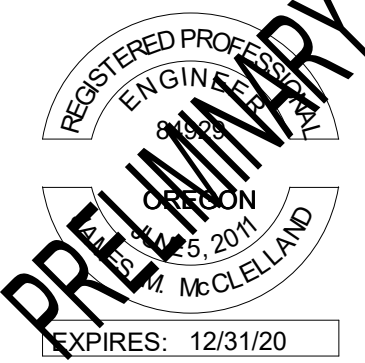


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**PROJECT**  
**Beaver Acres ES Seismic Improvements**  
2125 SW 170th Avenue  
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PROJECT NO:  
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DRAWN BY:  
Author

CHECKED BY:  
Checker

PROJECT MGR:  
Designer

APPROVED BY:  
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SHEET TITLE

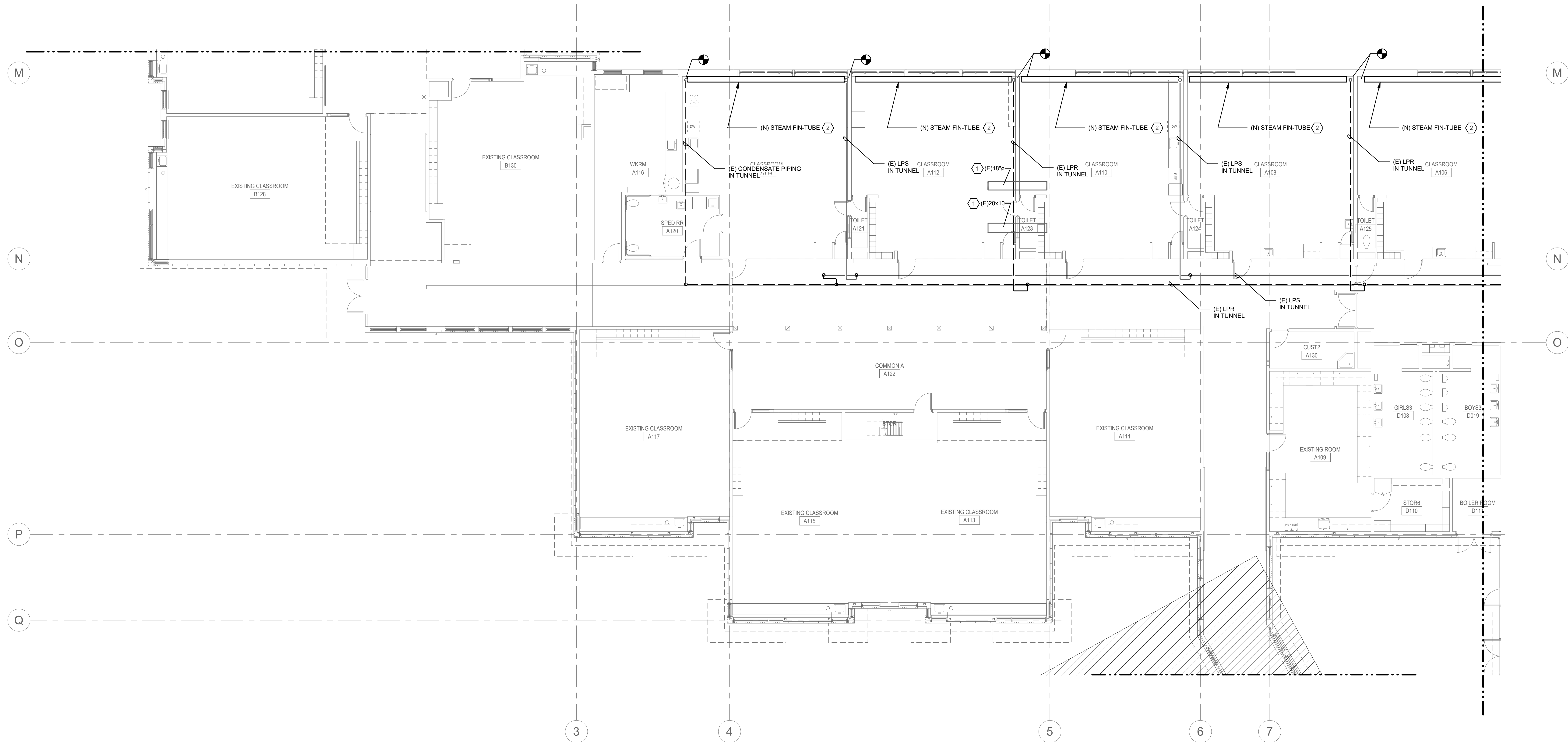
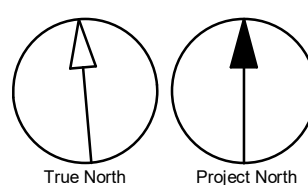
**FLOOR PLAN - SECTOR A - MECHANICAL**

SHEET NUMBER

**M201A**

ISSUE

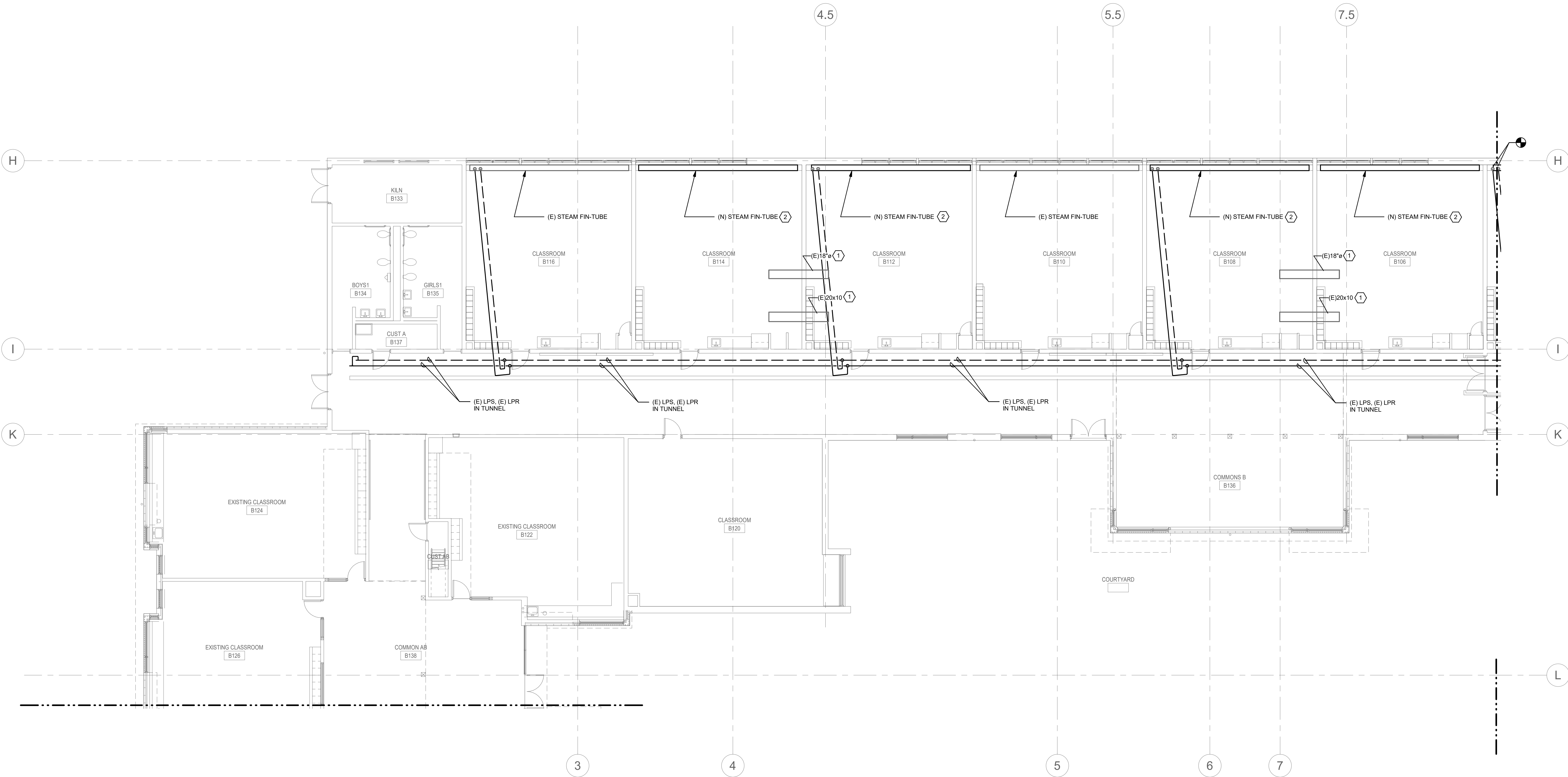
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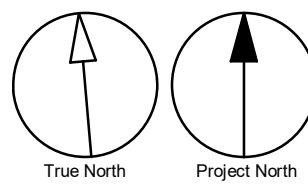
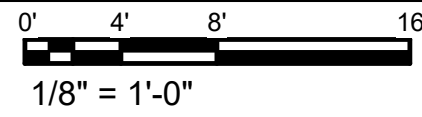
**1 FIRST FLOOR PLAN - SECTOR A - MECHANICAL**

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





1 FIRST FLOOR PLAN - SECTOR B - MECHANICAL



**SHEET KEYNOTES**

- COORDINATE WALL SHEATHING WITH EXISTING DUCTWORK.
- PROVIDE NEW FIN-TUBE RADIATOR. EXTEND NEW STEAM AND CONDENSATE PIPING FROM EXISTING.

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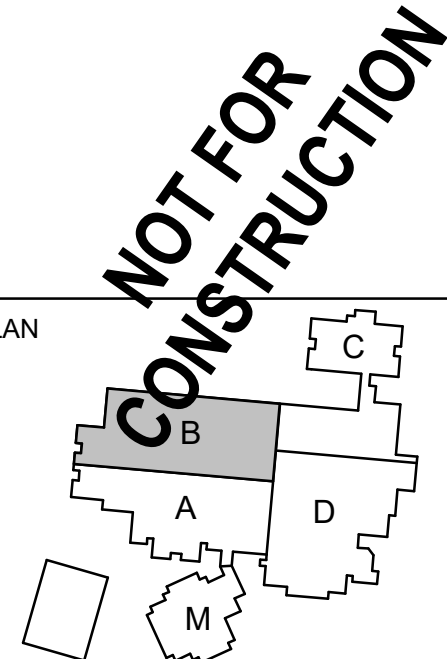


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**PROJECT**  
**Beaver Acres ES Seismic Improvements**  
2125 SW 170th Avenue  
Beaverton, OR 97003

**PROJECT NO:**  
122519

**DRAWN BY:**  
Author

**CHECKED BY:**  
Checker

**PROJECT MGR:**  
Designer

**APPROVED BY:**  
Approver

**SHEET TITLE**  
**FLOOR PLAN - SECTOR B - MECHANICAL**

**SHEET NUMBER**  
**M201B**

**ISSUE**  
**2**



1 FIRST FLOOR PLAN - SECTOR C - MECHANICAL

0' 4' 8' 16'


1/8" = 1'-0"

**SHEET KEYNOTES**

- COORDINATE WALL SHEATHING WITH EXISTING DUCTWORK.
- PROVIDE NEW FIN-TUBE RADIATOR. EXTEND NEW STEAM AND CONDENSATE PIPING FROM EXISTING.

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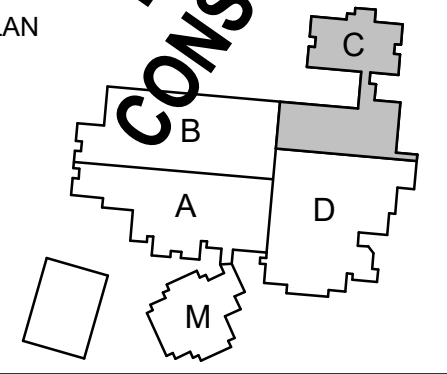
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PROJECT

**Beaver Acres ES Seismic Improvements**  
2125 SW 17th Avenue  
Beaverton, OR 97003

PROJECT NO:

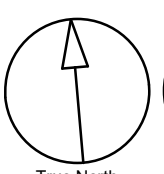
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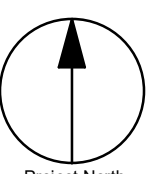
DRAWN BY: Author	CHECKED BY: Checker
PROJECT MGR: Designer	APPROVED BY: Approver

SHEET TITLE

**FLOOR PLAN - SECTOR C - MECHANICAL**

SHEET NUMBER	ISSUE
<b>M201C</b>	<b>2</b>

 True North

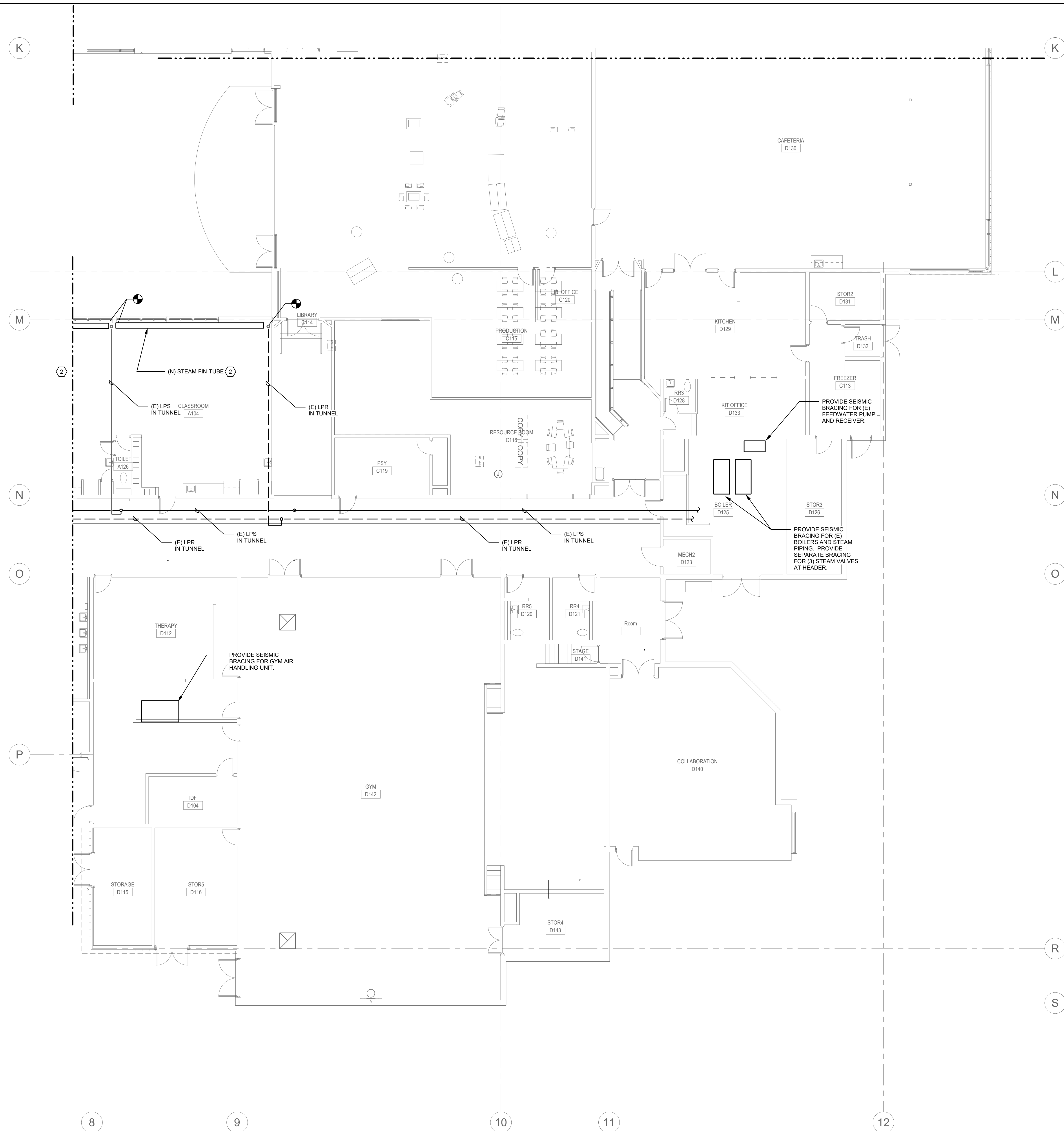
 Project North

SCALE CHECK

1/8"

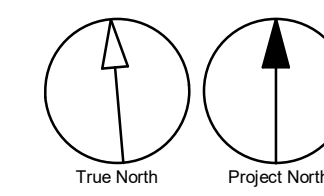
1/8" = 1'-0"





1 FIRST FLOOR PLAN - SECTOR D - MECHANICAL

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



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KEYPLAN



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tel 503 226 6950 fax 503 273 9192  
ibigroup-usa.com

PROJECT

**Beaver Acres ES Seismic Improvements**  
2125 SW 170th Avenue  
Beaverton, OR 97003

PROJECT NO:

122519

DRAWN BY:

Author

CHECKED BY:

Checker

PROJECT MGR:

Designer

APPROVED BY:

Approver

SHEET TITLE

**FLOOR PLAN - SECTOR D - MECHANICAL**

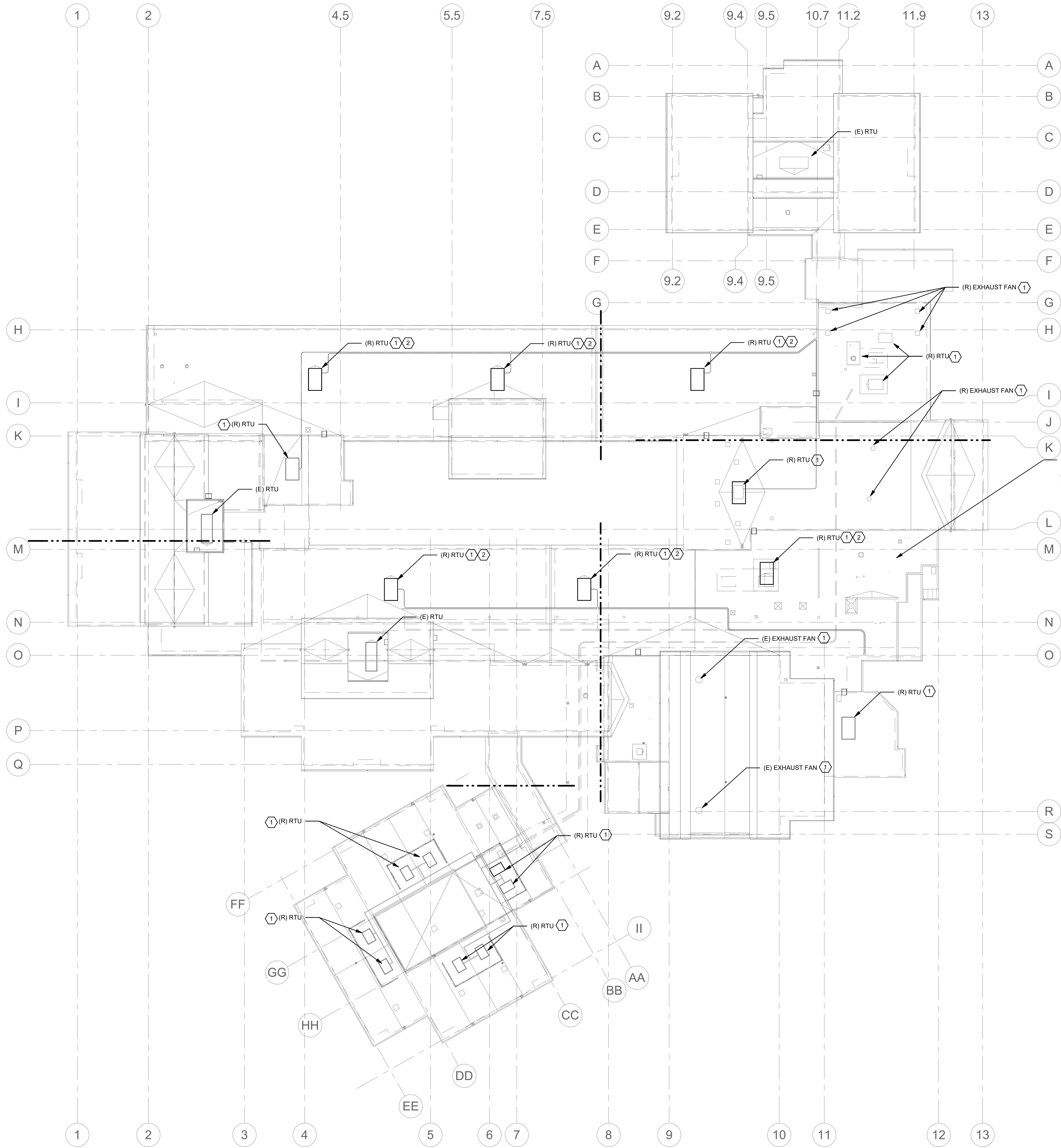
SHEET NUMBER

**M201D**

ISSUE

**2**

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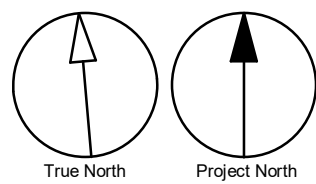
## SHEET KEYNOTES

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 3,000 CFM, NATURAL GAS FIRED, NOMINAL 13 TONS WITH 212 MBH HEAT OUTPUT. PROVIDE ECONOMIZER AND POWER EXHAUST FAN.

EXISTING DUCTWORK ON KITCHEN/CAFETERIA ROOFTOP TO BE REMOVED AND RE-INSTALLED AFTER ROOFING IS COMPLETE. DISTRICT TO PROVIDE DRAWINGS SHOWING EXTENT OF DUCTWORK TO BE REMOVED.

## 1 ROOF OVERALL PLAN - MECHANICAL

0' 16' 32' 48'  
3/64" = 1'-0"



CLIENT  
Beaverton School District



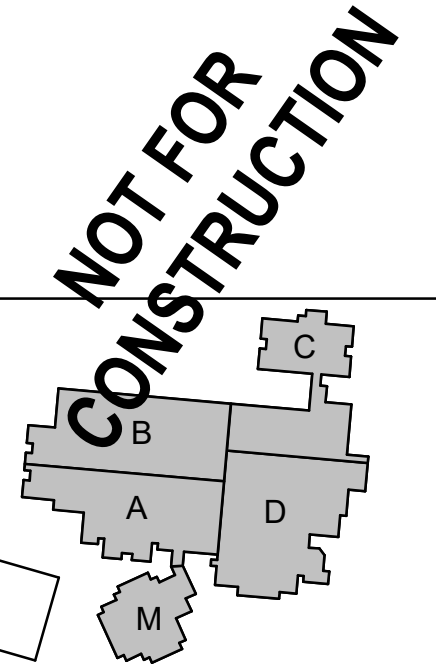
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2	100% DESIGN DEVELOPMENT	11.01.19

KEYPLAN



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**INTERFACE ENGINEERING**

PROJECT 2019-0496  
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**PROJECT**  
**Beaver Acres ES Seismic Improvements**  
2125 SW 170th Avenue  
Beaverton, OR 97003

PROJECT NO:  
122519

DRAWN BY:  
Author

PROJECT MGR:  
Designer

CHECKED BY:  
Checker

APPROVED BY:  
Approver

SHEET TITLE

**ROOF PLAN OVERALL - MECHANICAL**

SHEET NUMBER

**M301**

ISSUE

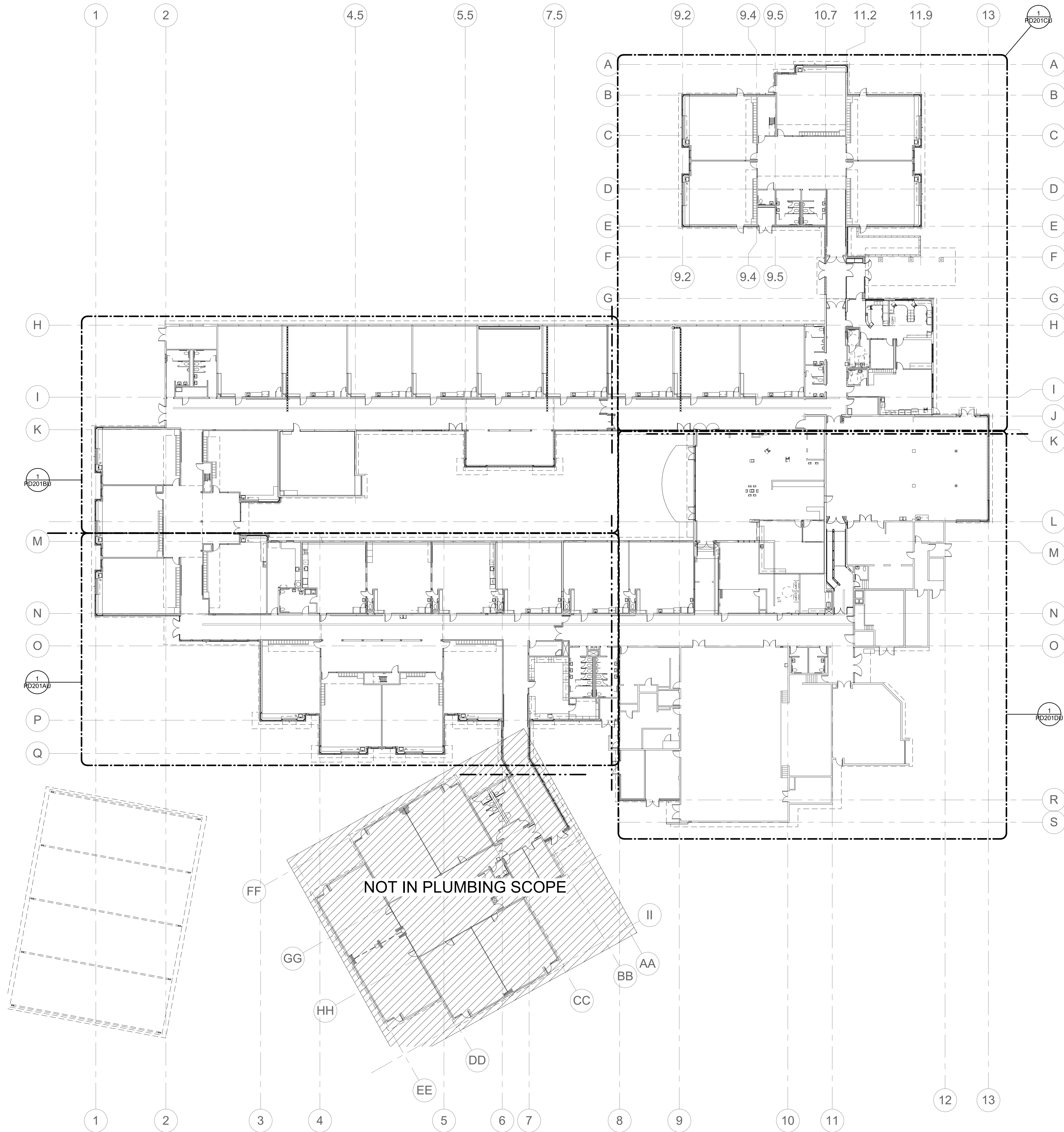
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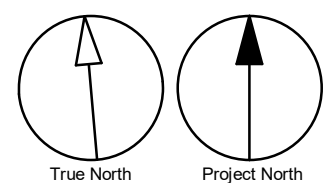


10/30/2019 3:43:39 PM




1 UNDERGROUND/TUNNEL DEMO PLAN OVERALL - PLUMBING

0 16 32 48  
3/64" = 1'-0"



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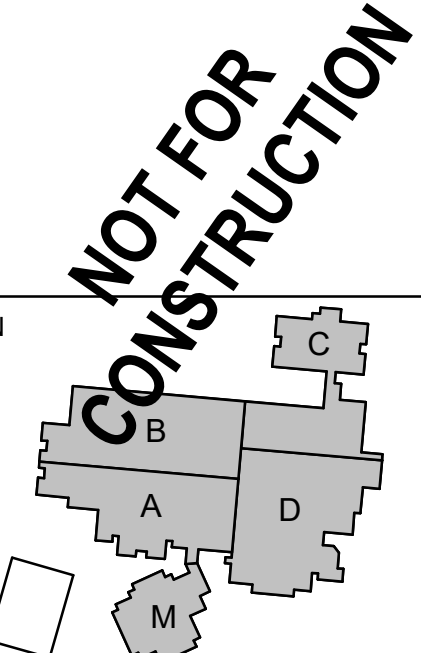
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1	1	SCHEMATIC DESIGN	10.04.19
2	2	100% DESIGN DEVELOPMENT	11.01.19

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CONSULTANTS


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PROJECT

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2125 SW 17th Avenue  
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PROJECT NO:

122519

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PROJECT MGR:

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SHEET TITLE

**UNDERGROUND/TUNNEL DEMO PLAN OVERALL - PLUMBING**

SHEET NUMBER

**PD200U**

ISSUE

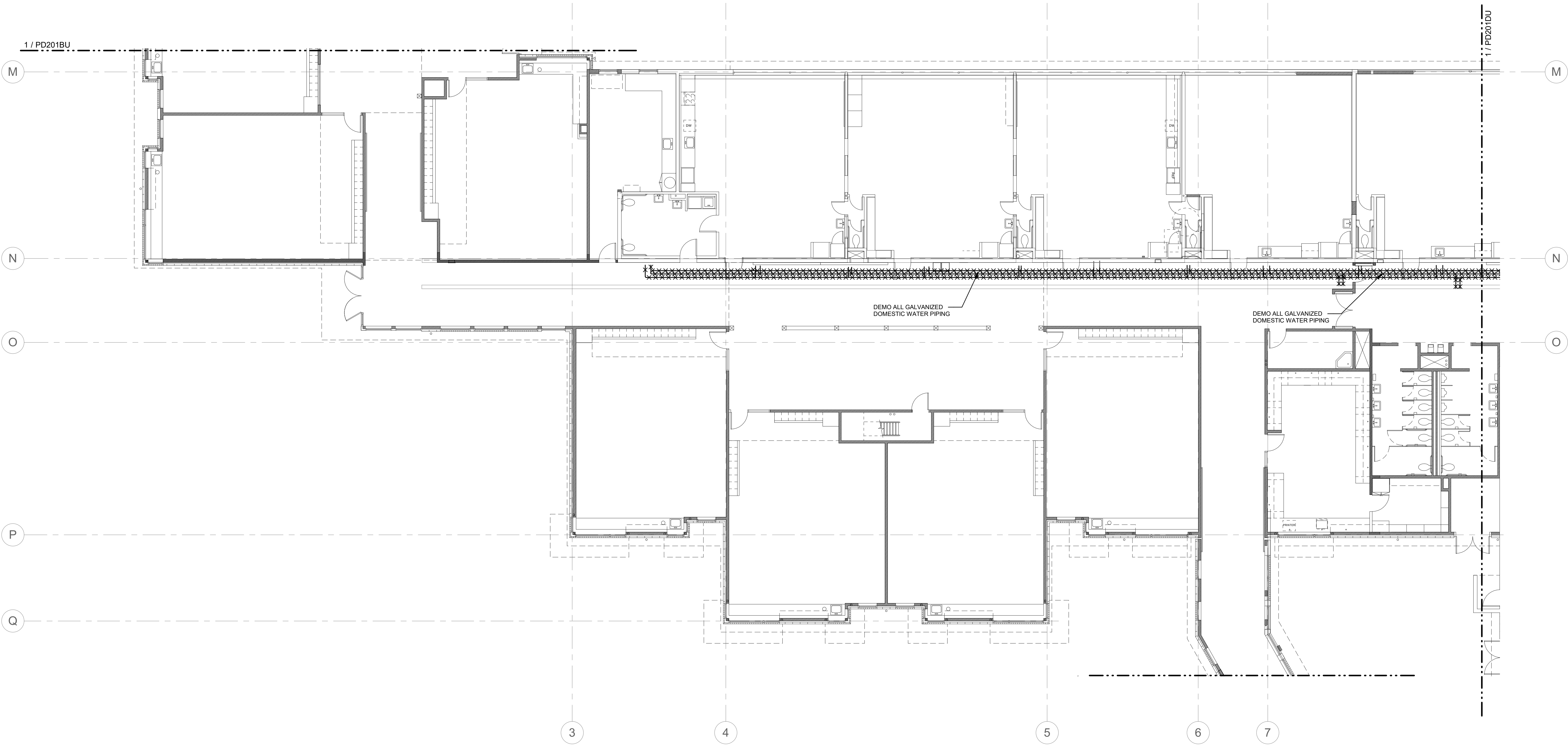
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GENERAL SHEET NOTES

- A. ALL PLUMBING FIXTURES TO REMAIN.  
B. ALL EXISTING COPPER PIPING TO REMAIN.



1 UNDERGROUND/TUNNEL DEMO PLAN - SECTOR A - PLUMBING

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

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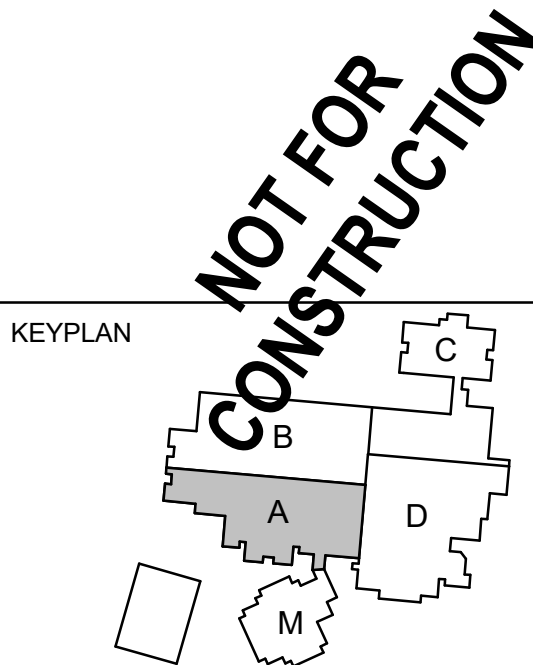


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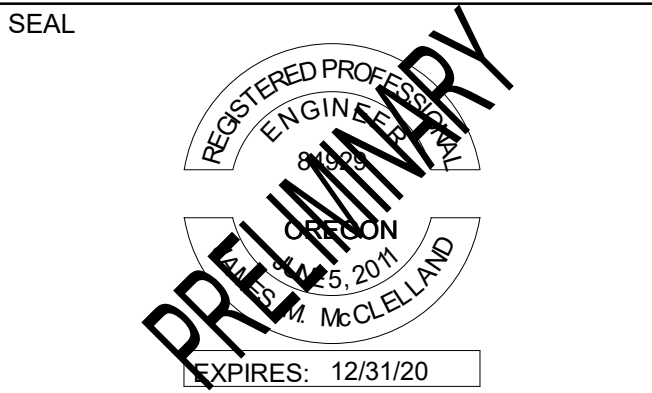
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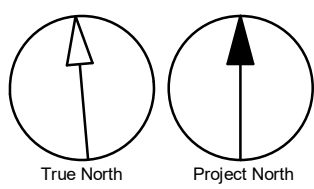
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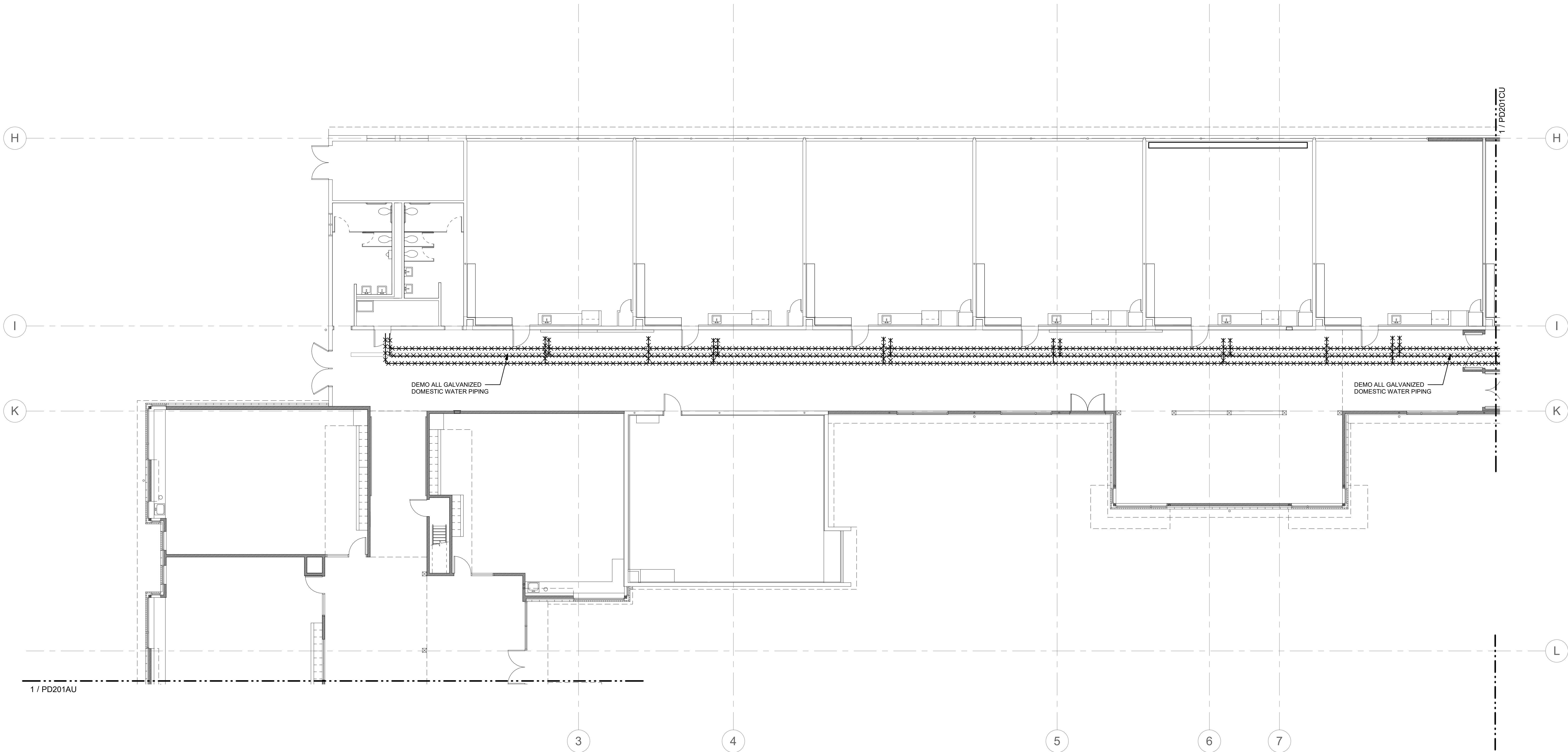
**PROJECT**  
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2125 SW 170th Avenue  
Beaverton, OR 97003

**DRAWN BY:** Author  
**CHECKED BY:** Checker  
**PROJECT MGR:** Designer  
**APPROVED BY:** Approver

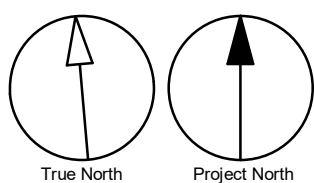
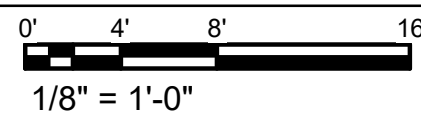
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**SHEET NUMBER**  
**PD201AU**  
**ISSUE**  
**2**





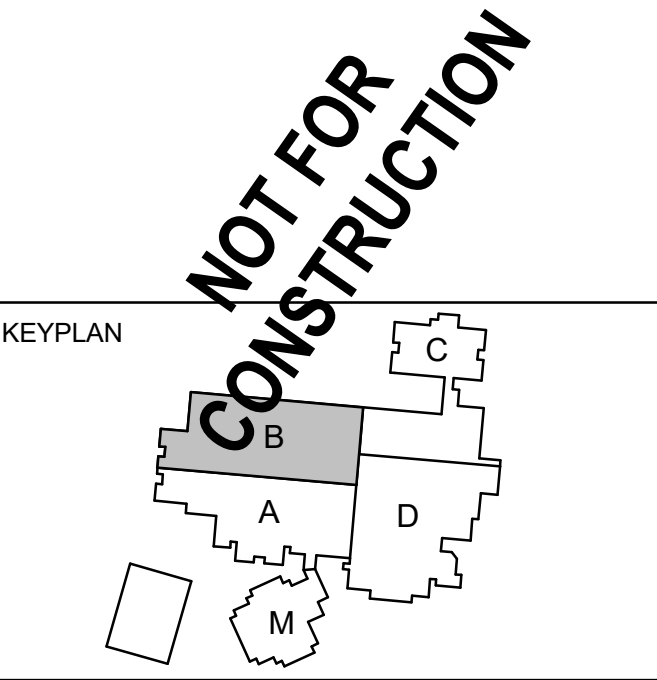
1 UNDERGROUND/TUNNEL DEMO PLAN - SECTOR B - PLUMBING



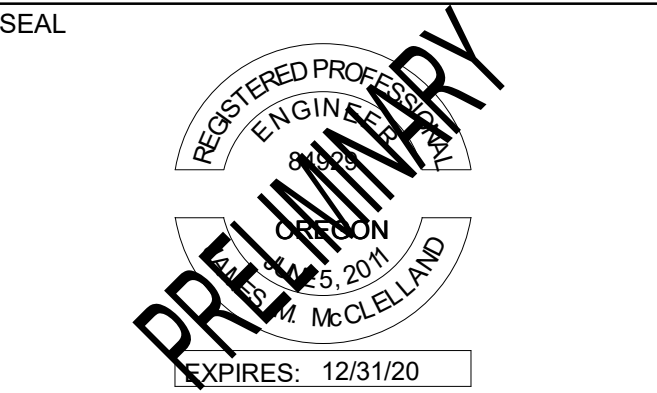
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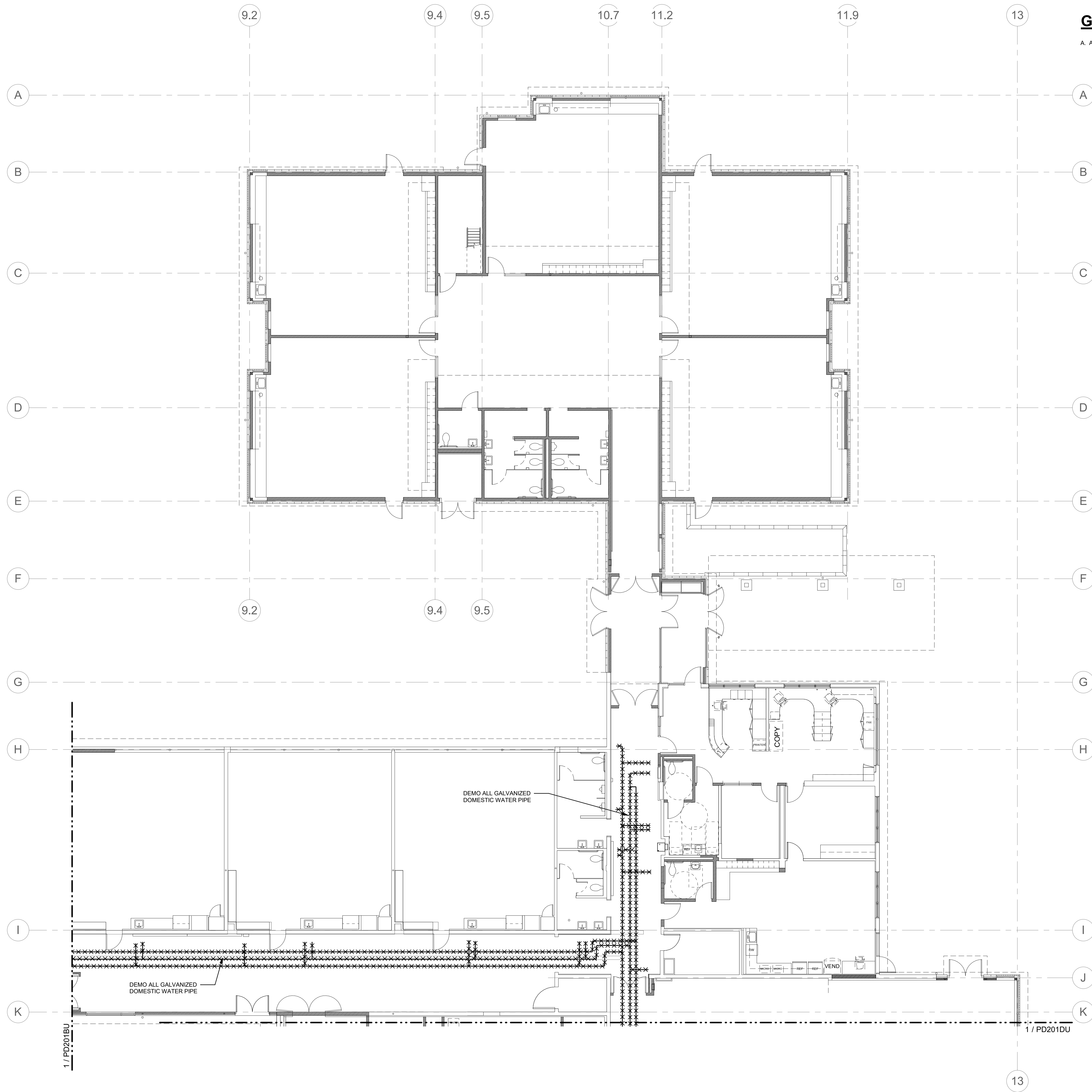
PROJECT  
**Beaver Acres ES Seismic Improvements**  
2125 SW 170th Avenue  
Beaverton, OR 97003

PROJECT NO: 122519  
DRAWN BY: Author  
CHECKED BY: Checker  
PROJECT MGR: Designer  
APPROVED BY: Approver

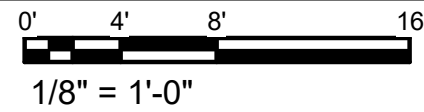
SHEET TITLE  
**UNDERGROUND/TUNNEL DEMO PLAN - SECTOR B - PLUMBING**

SHEET NUMBER **PD201BU** ISSUE **2**





1 UNDERGROUND/TUNNEL DEMO PLAN - SECTOR C - PLUMBING



GENERAL SHEET NOTES

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2	100% DESIGN DEVELOPMENT	11.01.19

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PROJECT: 2019-0496  
CONTACT: Todd Kofel  
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TEL: 503.382.2266  
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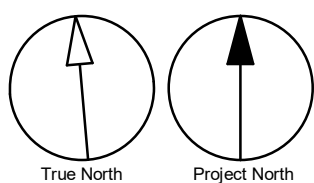
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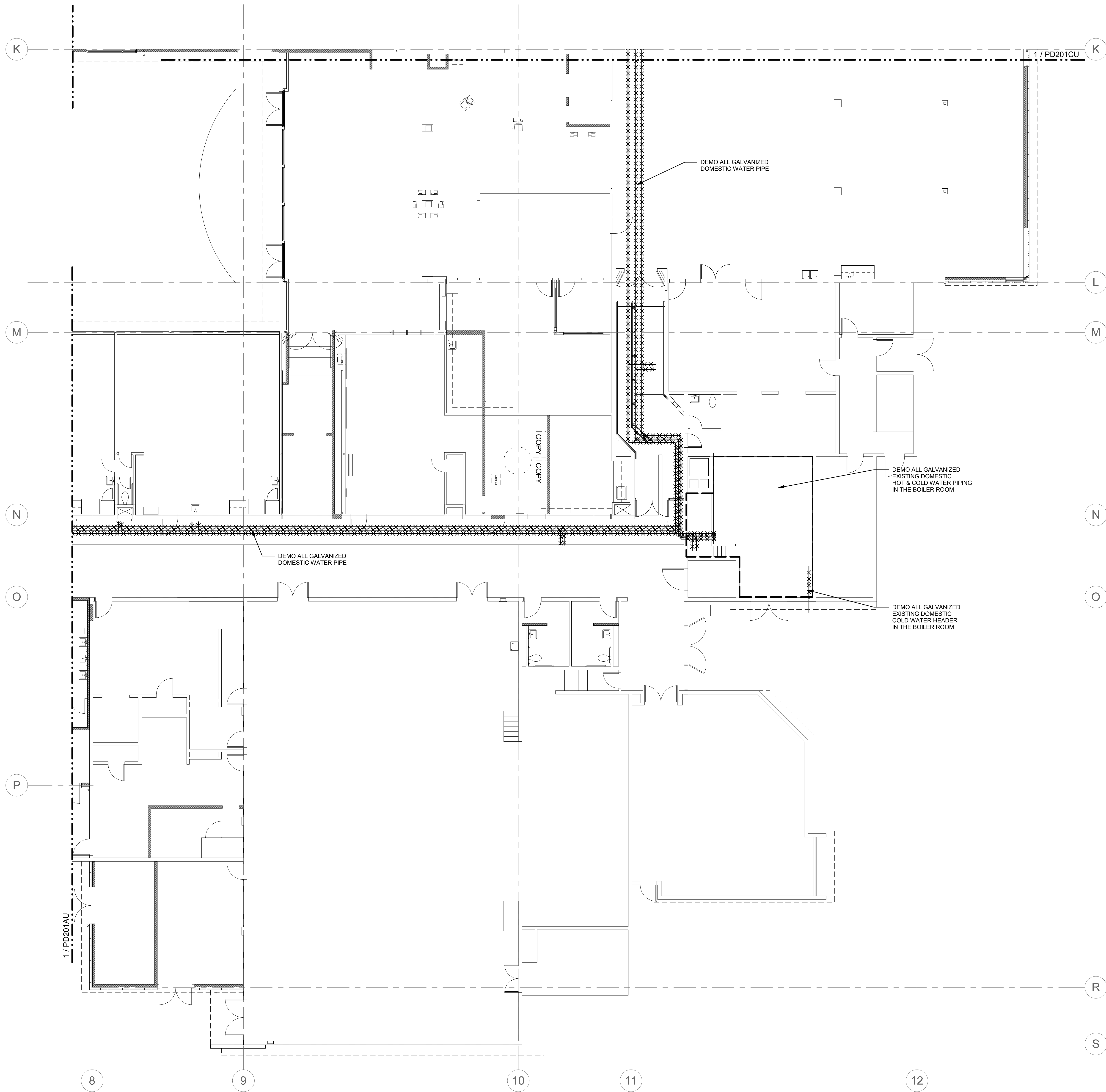
PROJECT  
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2125 SW 170th Avenue  
Beaverton, OR 97003

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DRAWN BY:  
Author  
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Checker  
PROJECT MGR:  
Designer  
APPROVED BY:  
Approver

SHEET TITLE  
**UNDERGROUND/TUNNEL DEMO PLAN - SECTOR C - PLUMBING**

SHEET NUMBER  
**PD201CU**  
ISSUE  
**2**





## GENERAL SHEET NOTES

A. ALL PLUMBING FIXTURES TO REMAIN.

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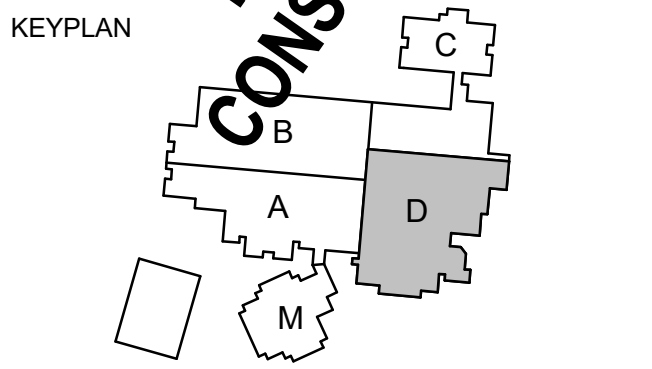
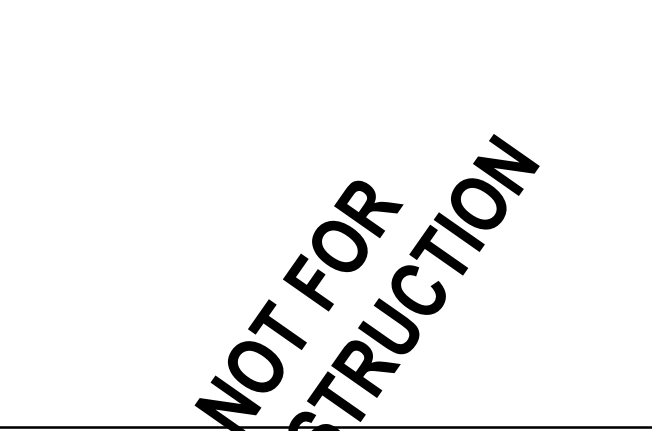


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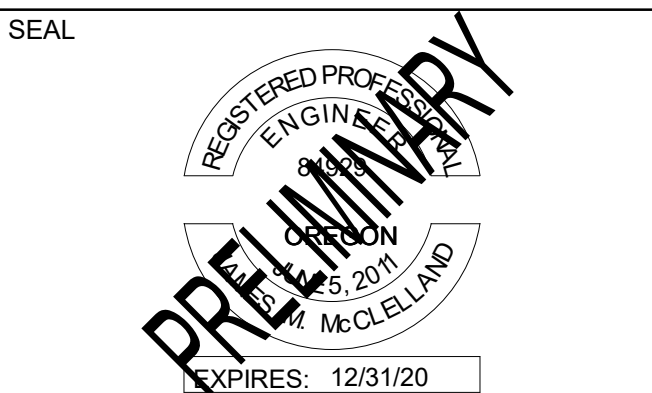
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ibigroup-usa.com

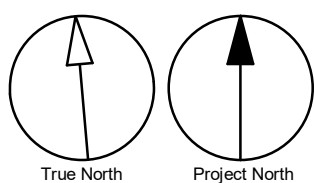
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**Beaver Acres ES Seismic Improvements**  
2125 SW 17th Avenue  
Beaverton, OR 97003

PROJECT NO: 122519  
DRAWN BY: Author  
PROJECT MGR: Designer  
CHECKED BY: Checker  
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**SHEET TITLE**  
**UNDERGROUND/TUNNEL DEMO PLAN - SECTOR D - PLUMBING**

**SHEET NUMBER**  
**PD201DU**

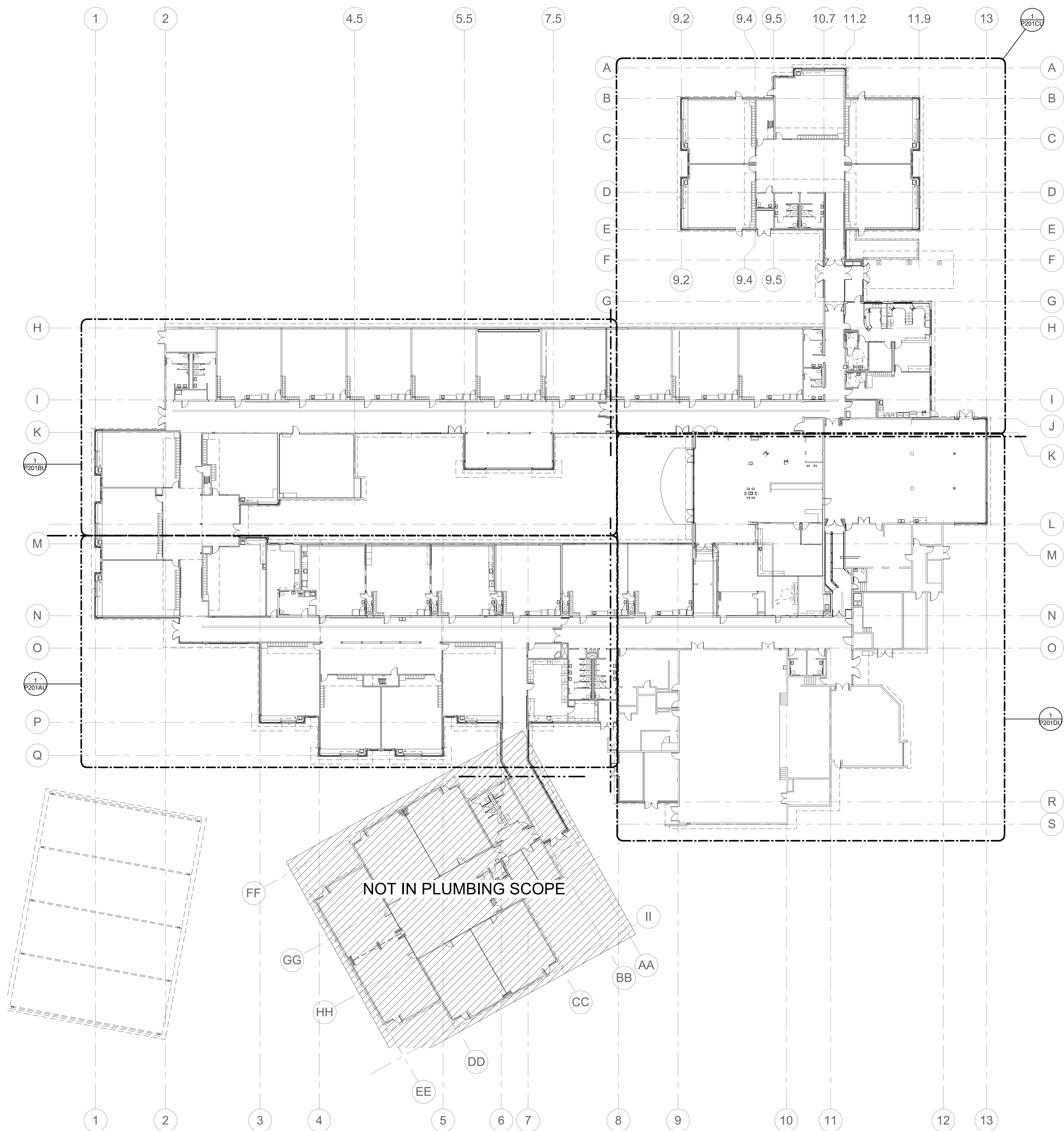
**ISSUE**  
**2**



**1 UNDERGROUND/TUNNEL DEMO PLAN - SECTOR D - PLUMBING**

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





1 UNDERGROUND/TUNNEL OVERALL PLAN - PLUMBING

0' 16' 32' 48'  
3/64" = 1'-0"

CLIENT  
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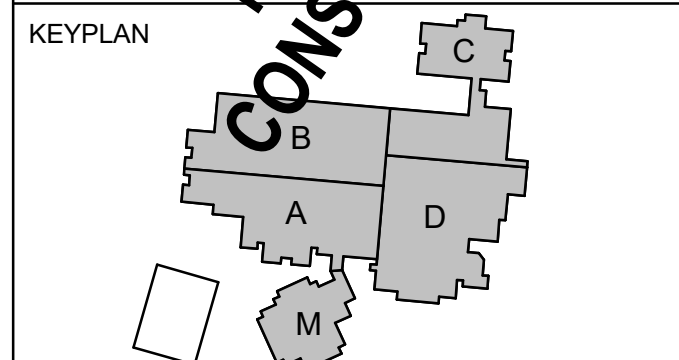


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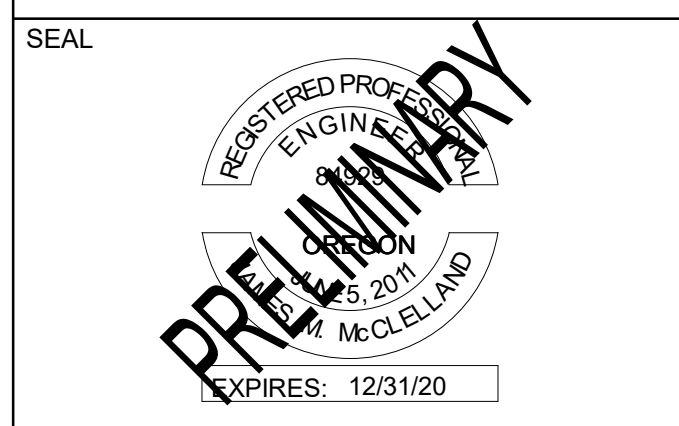
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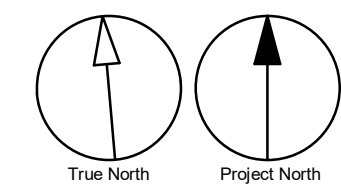
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ibigroup-usa.com

**PROJECT**  
**Beaver Acres ES Seismic Improvements**  
2125 SW 170th Avenue  
Beaverton, OR 97003

**PROJECT NO:** 122519  
**DRAWN BY:** Author  
**CHECKED BY:** Checker  
**PROJECT MGR:** Designer  
**APPROVED BY:** Approver

**SHEET TITLE**  
**UNDERGROUND/TUNNEL PLAN OVERALL - PLUMBING**

**SHEET NUMBER** P201U  
**ISSUE** 2



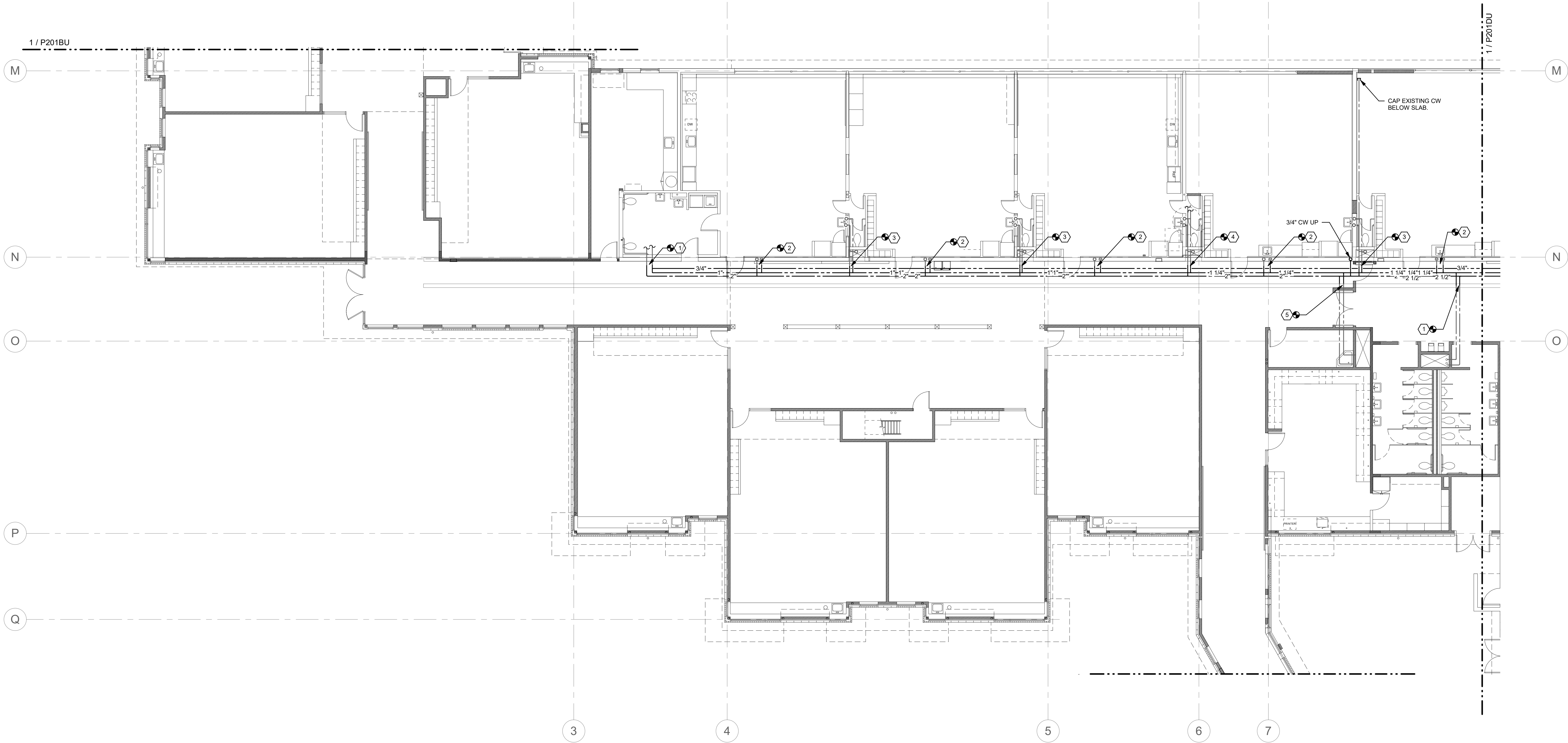


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SHEET KEYNOTES

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



1 UNDERGROUND/TUNNEL PLAN - SECTOR A - PLUMBING

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

CLIENT  
Beaverton School District



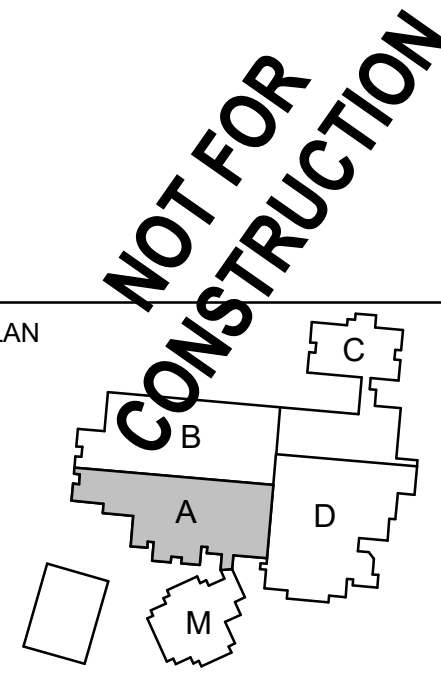
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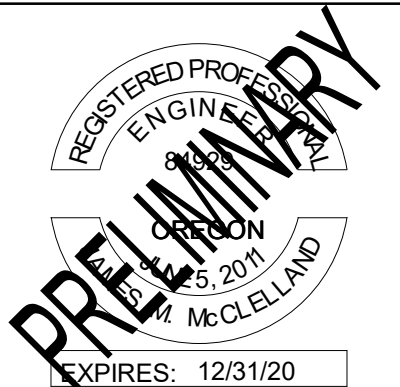
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2125 SW 170th Avenue  
Beaverton, OR 97003

PROJECT NO:

122519

DRAWN BY:

Author

CHECKED BY:

Checker

PROJECT MGR:

Designer

APPROVED BY:

Approver

SHEET TITLE

UNDERGROUND/TUNNEL

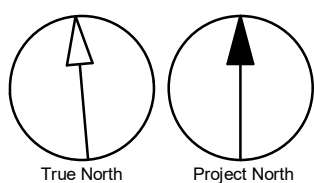
PLAN - SECTOR A - PLUMBING

SHEET NUMBER

P201AU

ISSUE

2



SHEET KEYNOTES

- 1 POC 2" COLD WATER, 1" HOT WATER TO EXISTING.  
2 POC 1/2" COLD WATER, 1/2" HOT WATER TO EXISTING.

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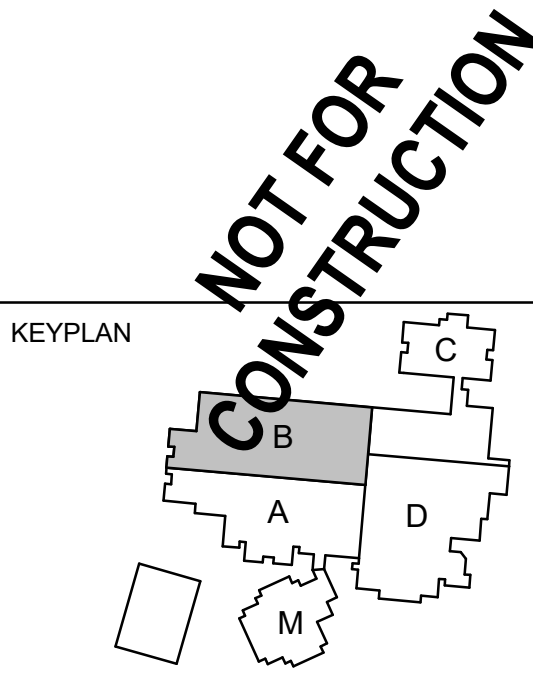


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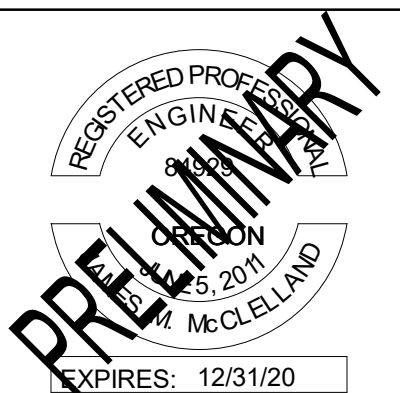


KEYPLAN

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PROJECT  
**Beaver Acres ES Seismic Improvements**  
2125 SW 170th Avenue  
Beaverton, OR 97003

PROJECT NO:  
122519

DRAWN BY:  
Author

CHECKED BY:  
Checker

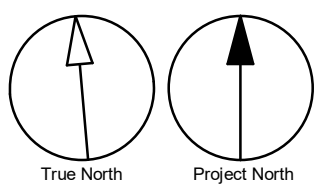
PROJECT MGR:  
Designer

APPROVED BY:  
Approver

SHEET TITLE  
**UNDERGROUND/TUNNEL  
PLAN - SECTOR B - PLUMBING**

SHEET NUMBER  
**P201BU**

ISSUE  
**2**



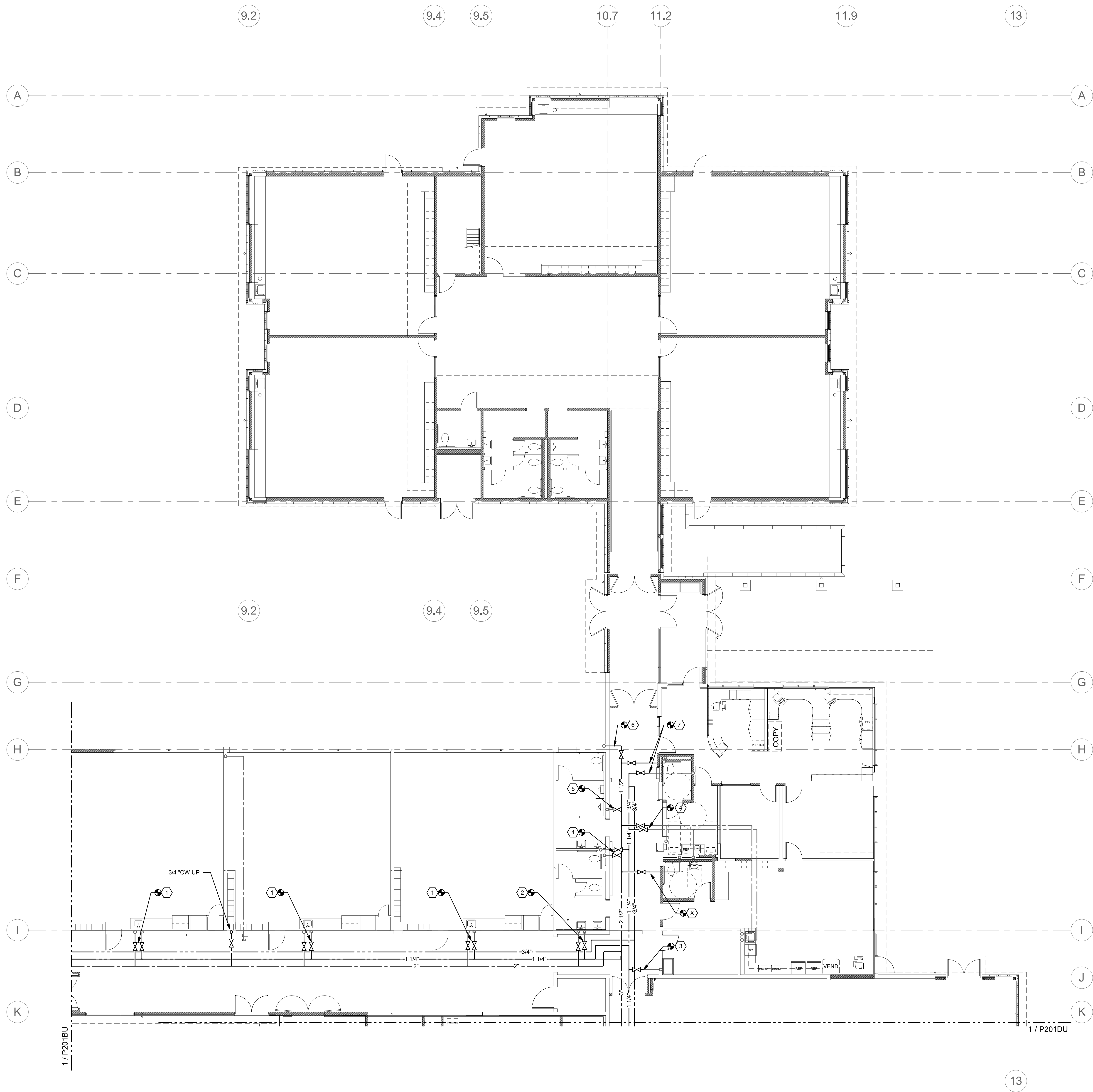
1 UNDERGROUND/TUNNEL PLAN - SECTOR B - PLUMBING

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1/8" = 1'-0"

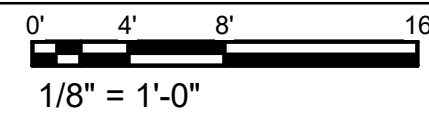
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C:\Users\adam\Documents\BeaverAcres\_MEP\_Central\_RTE\_304\WB\B201BU.dwg





1 UNDERGROUND/TUNNEL PLAN - SECTOR C - PLUMBING



**SHEET KEYNOTES**

- 1 POC 1/2" COLD WATER, 1/2" HOT WATER TO EXISTING.
- 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.

CLIENT

Beaverton School District



16550 SW Merlo Road Beaverton, OR 97003

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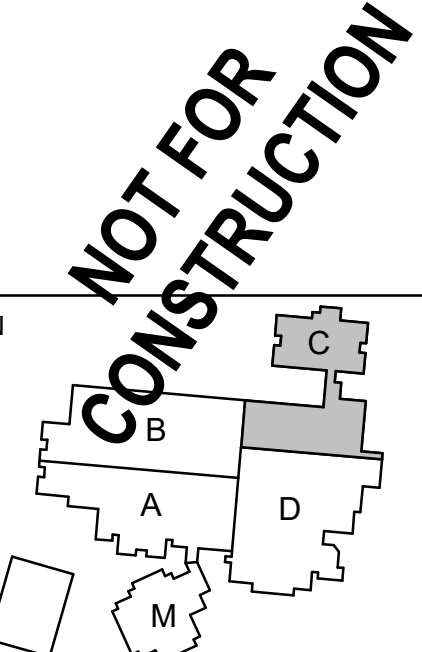
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2125 SW 170th Avenue  
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122519

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PROJECT MGR:

Designer

APPROVED BY:

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SHEET TITLE

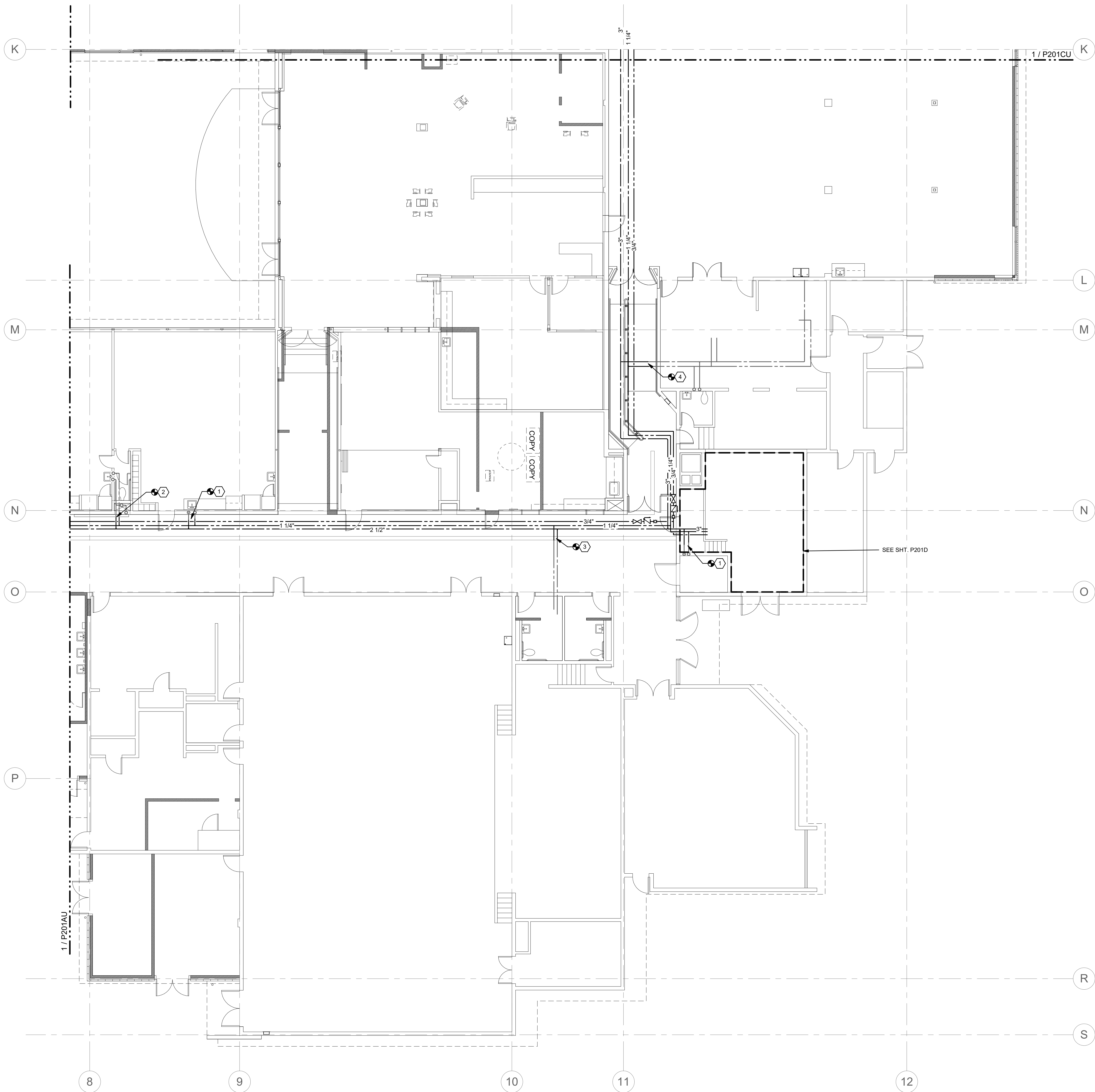
UNDERGROUND/TUNNEL PLAN - SECTOR C - PLUMBING

SHEET NUMBER

P201CU

ISSUE

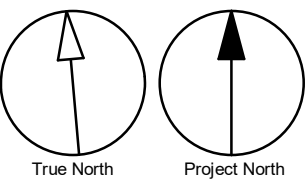
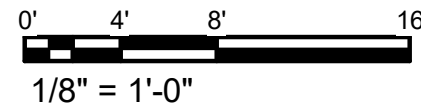
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SHEET KEYNOTES

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

1 UNDERGROUND/TUNNEL PLAN - SECTOR D - PLUMBING

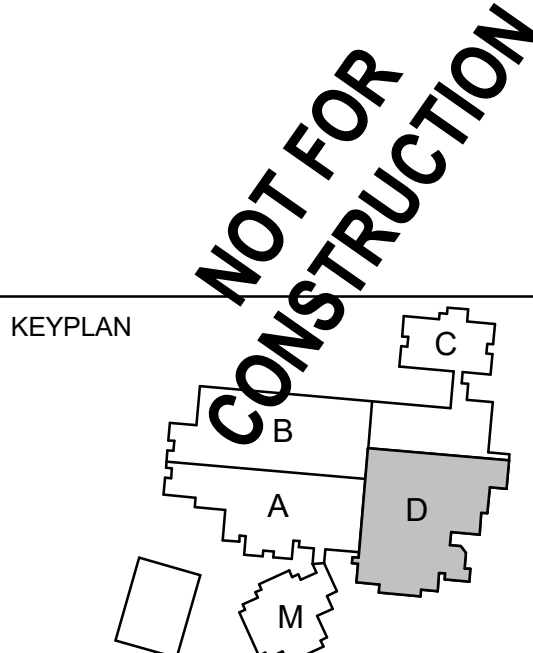


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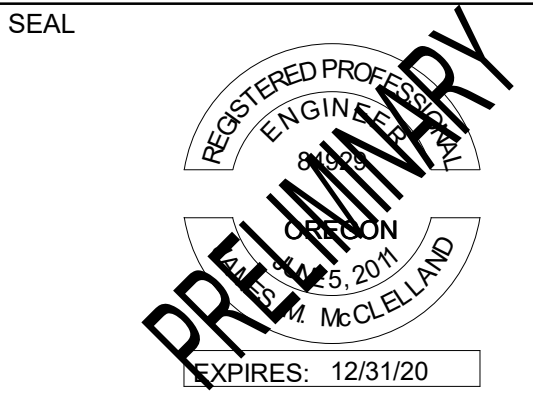
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PROJECT  
**Beaver Acres ES Seismic Improvements**  
2125 SW 170th Avenue  
Beaverton, OR 97003

PROJECT NO.: 122519  
DRAWN BY: Author  
CHECKED BY: Checker  
PROJECT MGR: Designer  
APPROVED BY: Approver

SHEET TITLE  
**UNDERGROUND/TUNNEL PLAN - SECTOR D - PLUMBING**

SHEET NUMBER  
**P201DU**  
ISSUE  
**2**



GENERAL SHEET NOTES

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

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Beaverton School District



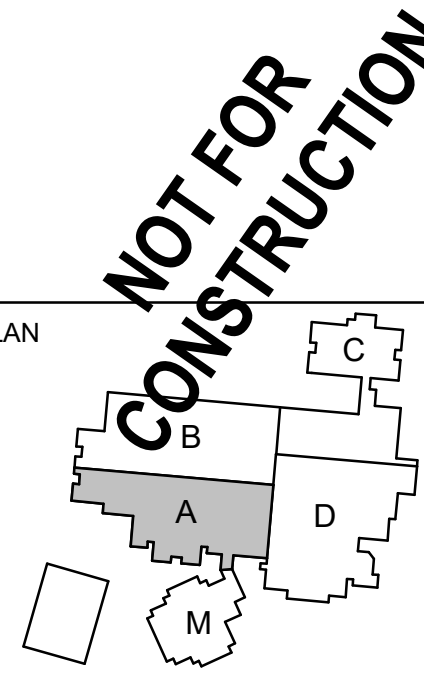
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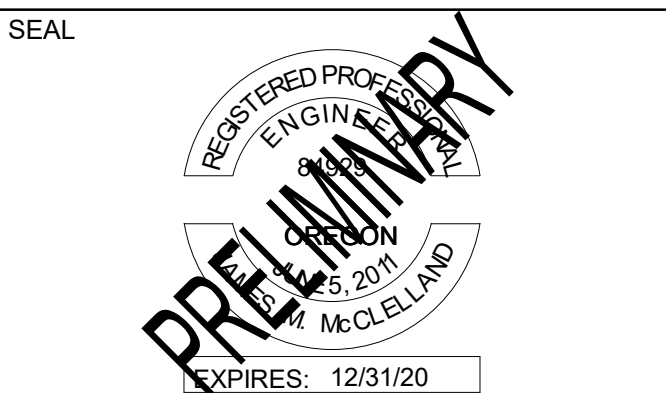
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2125 SW 17th Avenue  
Beaverton, OR 97003

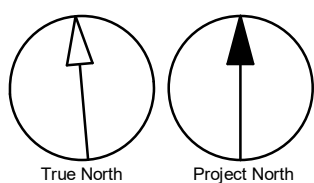
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SHEET TITLE  
**FIRST FLOOR PLAN - SECTOR A - PLUMBING**

SHEET NUMBER  
**P201A**  
ISSUE  
**2**

1 FIRST FLOOR PLAN - SECTOR A - PLUMBING

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



GENERAL SHEET NOTES

- 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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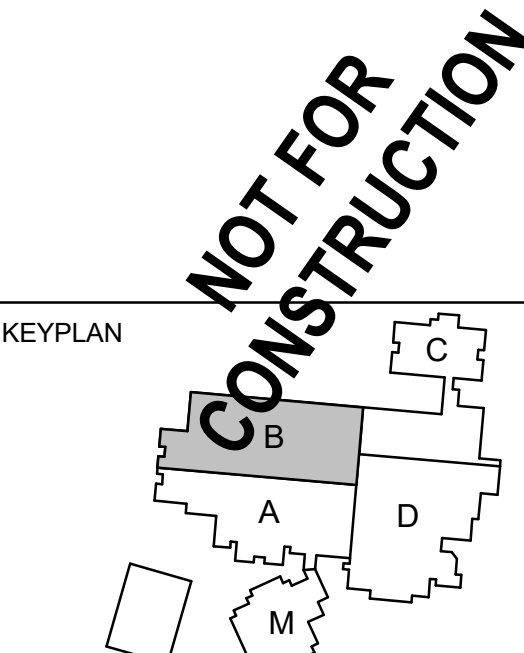


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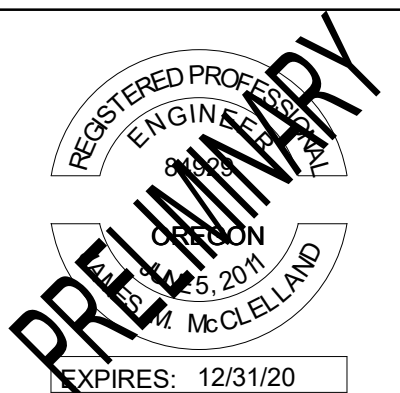


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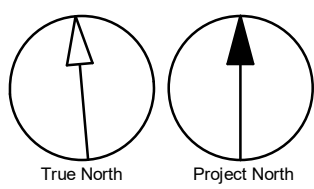
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Beaver Acres ES Seismic Improvements  
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Beaverton, OR 97003

PROJECT NO: 122519  
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CHECKED BY: Checker  
PROJECT MGR: Designer  
APPROVED BY: Approver

SHEET TITLE  
**FIRST FLOOR PLAN - SECTOR B - PLUMBING**

SHEET NUMBER **P201B** ISSUE **2**

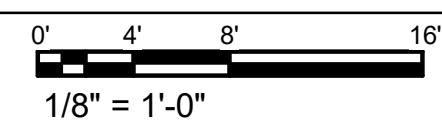


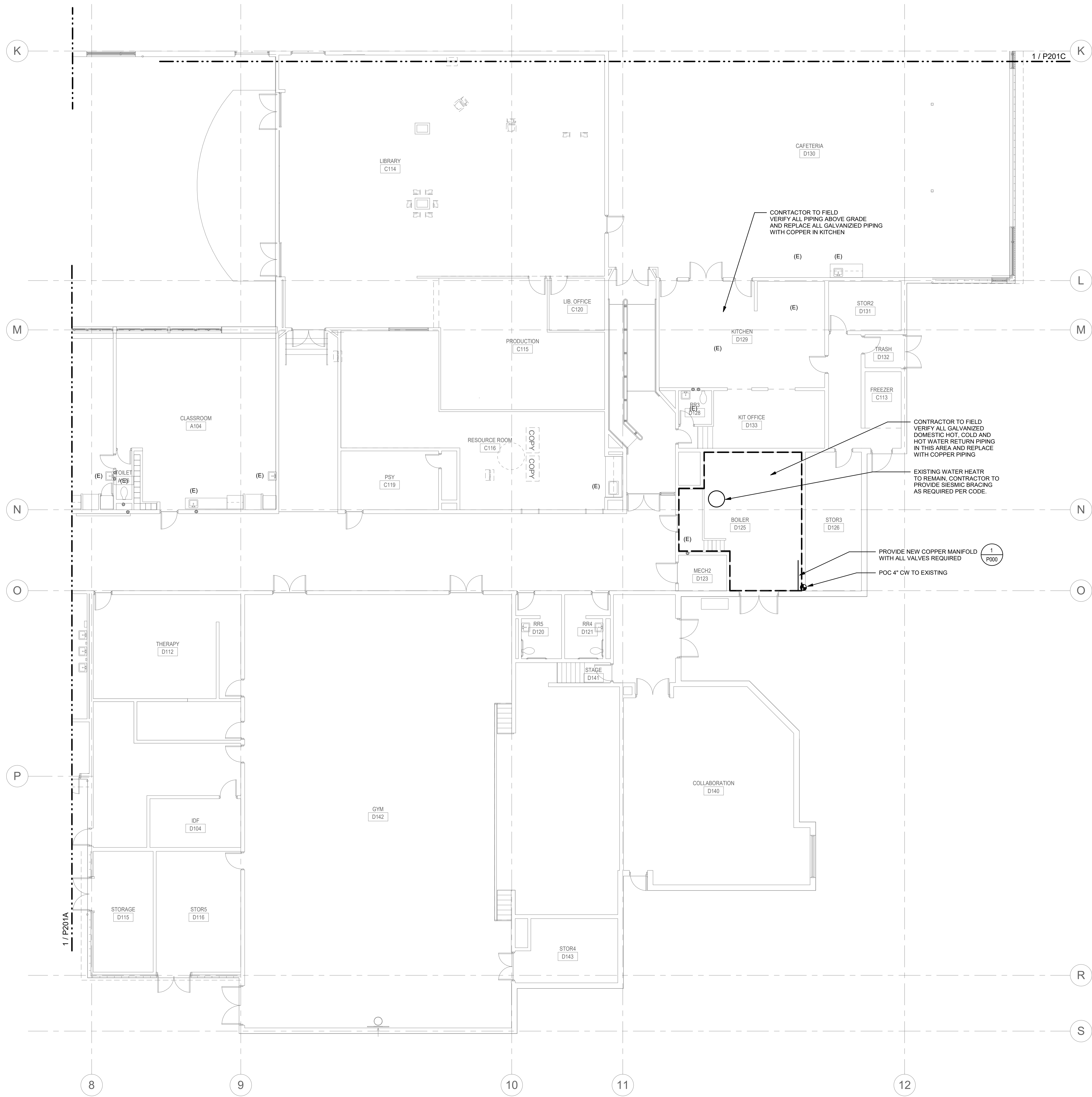
1 FIRST FLOOR PLAN - SECTOR B - PLUMBING

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

10/30/2019 3:43:27 PM







## GENERAL SHEET NOTES

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

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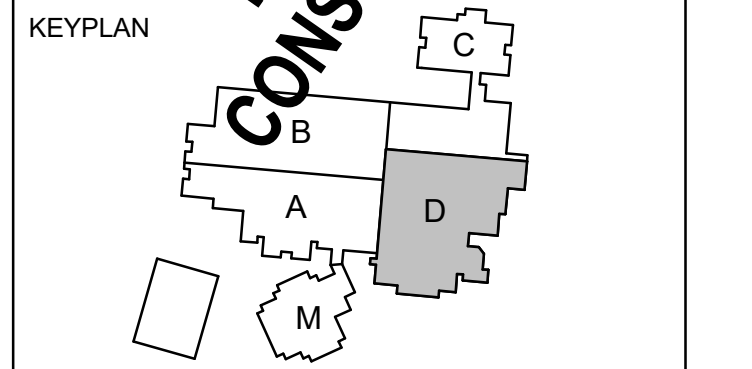
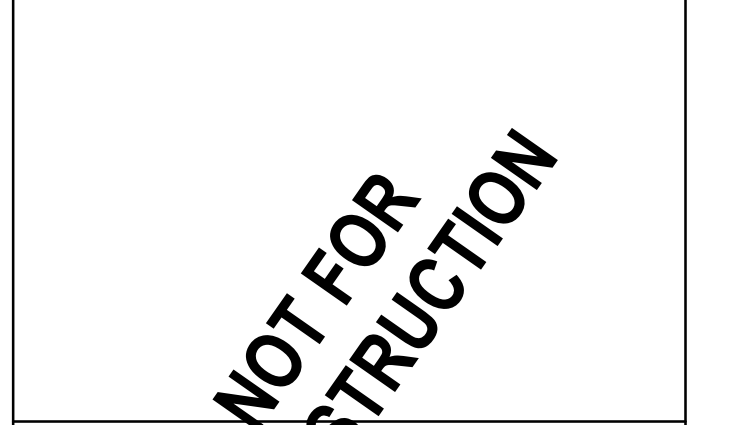


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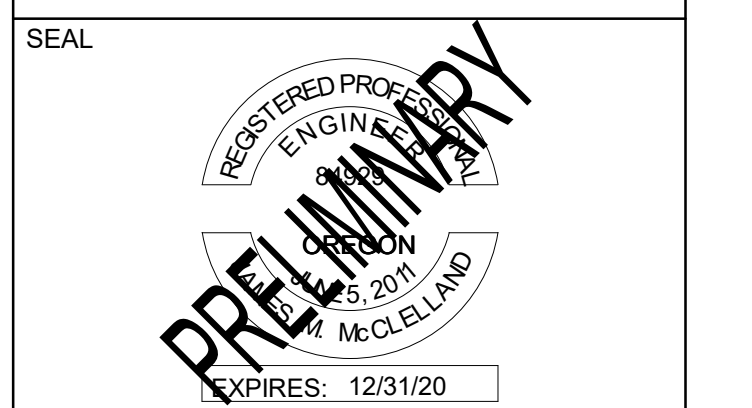
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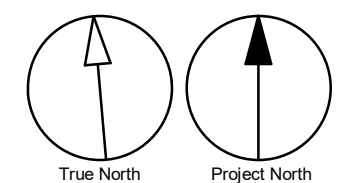
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PROJECT NO.: 122519  
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PROJECT MGR: Designer  
CHECKED BY: Checker  
APPROVED BY: Approver

SHEET TITLE  
**FIRST FLOOR PLAN - SECTOR D - PLUMBING**

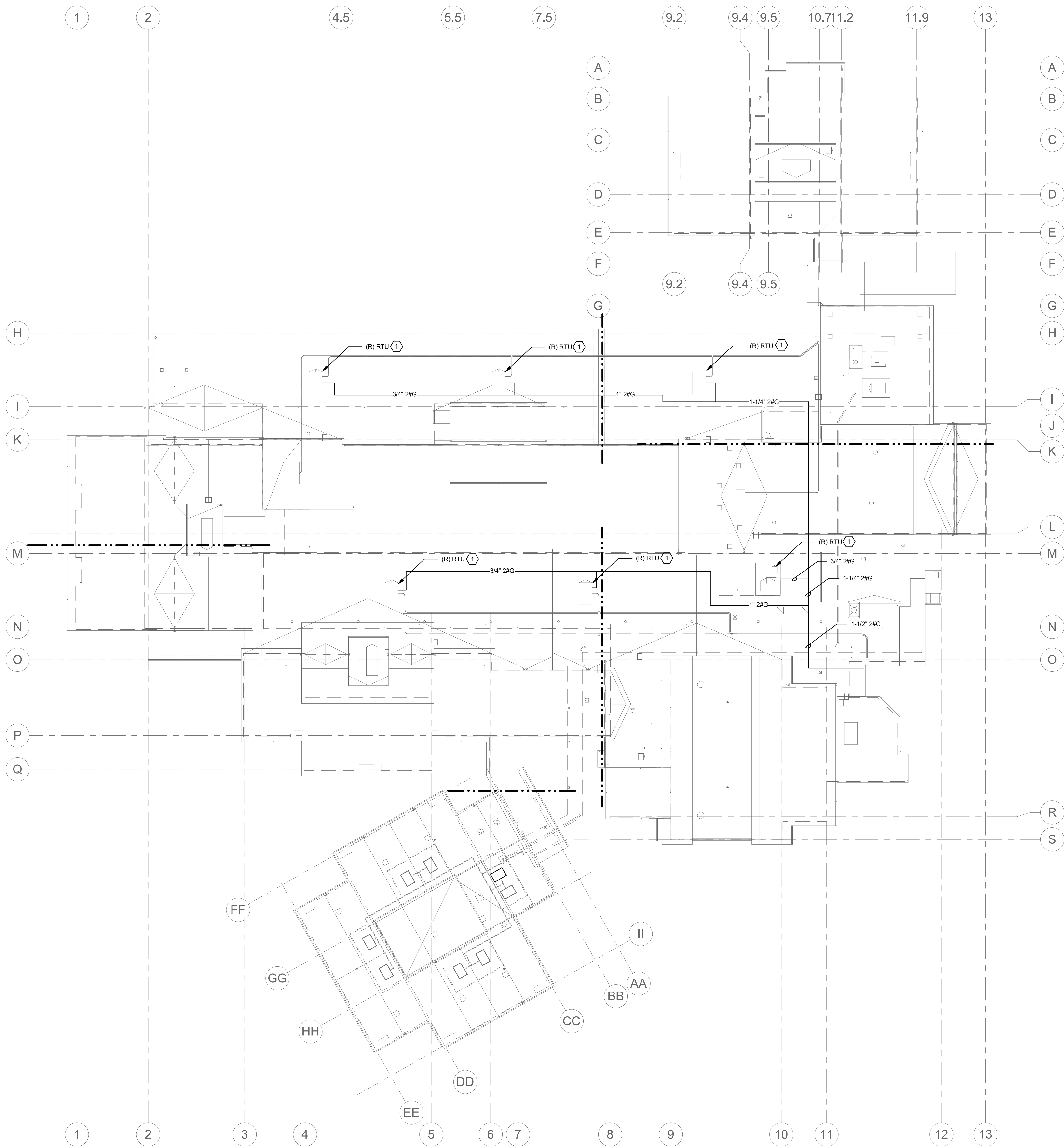
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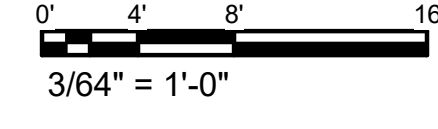
**1 FIRST FLOOR PLAN - SECTOR D - PLUMBING**

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





1 ROOF PLAN - PLUMBING PLAN - OVERALL



**SHEET KEYNOTES**

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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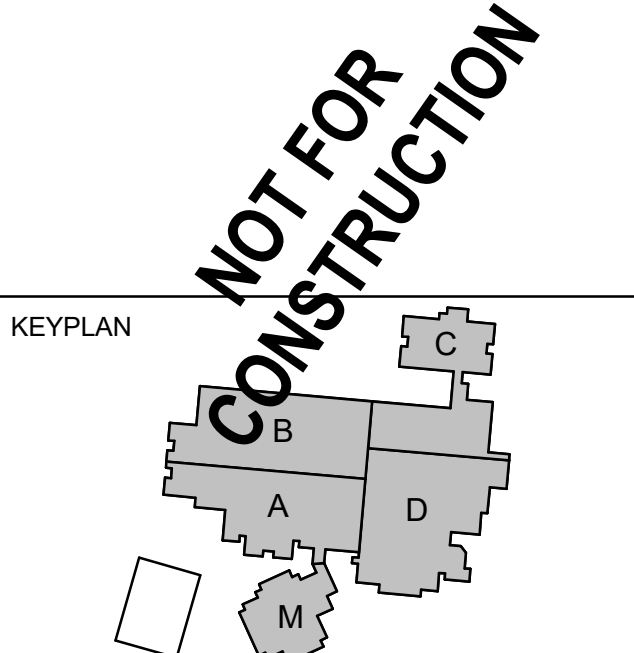


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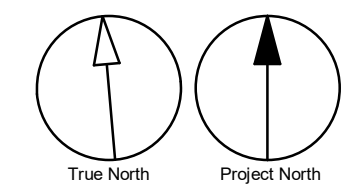
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PROJECT NO: 122519  
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PROJECT MGR: Designer  
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SHEET TITLE  
**ROOF PLAN OVERALL - PLUMBING - ADD ALTERNATE**

SHEET NUMBER  
**P301**

ISSUE  
**2**



ELECTRICAL SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

Abbreviations

AF	ABOVE FINISHED CEILING
AF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ARF	ABOVE RAISED FLOOR
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AWG	AMERICAN WIRE GAUGE
A	AMPERES, AMBER
AV	AUDIO VISUAL
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AVAILABLE INTERRUPTING CAPACITY
BAS	BUILDING AUTOMATION SYSTEM
CA	CABLE
CAT	CATEGORY
CLG	CEILING
CB	CIRCUIT BREAKER
C	CONDUIT, CLOSE, CONTROL
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
COORD	COORDINATE
CU	COPPER
dB	DECIBEL
(X)	DEMOLISH
DTL	DETAIL
DIA	DIAMETER
DM	DIMENSION
DIV	DIVISION
DN	DOWN
DWG	DRAWING
EA	EACH
EMT	ELECTRICAL METALLIC TUBING
EL	ELEVATION
E	EMERGENCY
EF	EXHAUST FAN
(E)	EXISTING
FMS	FACILITY MANAGEMENT SYSTEMS
FF	FINISH FLOOR
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FMC	FLEXIBLE METAL CONDUIT
FT	FOOT, FEET
FBO	FURNISHED BY OTHERS
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GFP	GROUND FAULT PROTECTION
GE	GROUNDING EQUALIZER
HT	HEIGHT
HC	HORIZONTAL CROSS CONNECT
ID	IDENTIFICATION
IN	INCH, INCHES
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
IG	ISOLATED GROUND
KV	KILOVOLT
KVA	KILOVOLT AMPERES
KW	KILOWATT
LED	LIGHT EMITTING DIODE
LNC	LIQUID TIGHT FLEXIBLE NONMETALLIC CONDUIT
LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
LV	LOW VOLTAGE
MOCP	MAXIMUM OVERCURRENT PROTECTION
MHz	MEGAHERTZ
MIN	MINIMUM
MCA	MINIMUM CIRCUIT AMPS
MISC	MISCELLANEOUS
M	MOTOR
MCC	MOTOR CONTROL CENTER
MT, MTD	MOUNT, MOUNTED
NEC	NATIONAL ELECTRIC CODE
NESC	NATIONAL ELECTRIC SAFETY CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
N	NEUTRAL
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
N/A	NOT APPLICABLE
N.I.C.	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
PNL	PANEL
PH	PHASE
PWR	POWER
QTY	QUANTITY
(R)	RELOCATE
RFI	REQUEST FOR INFORMATION
REQD	REQUIRED
RMC	RIGID METAL CONDUIT
RM	ROOM
SHT	SHEET
SPKR	SPEAKER
STD	STANDARD
SPD	SURGE PROTECTION DEVICE
SWBD	SWITCHBOARD
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TGB	TELECOMMUNICATIONS GROUNDING BUS BAR
TB	TELEPHONE TERMINAL BOARD
TBD	TO BE DETERMINED
XFMR	TRANSFORMER
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TP	TRANSITION POINT
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UPS	UNINTERRUPTIBLE POWER SUPPLY
UON	UNLESS OTHERWISE NOTED
VRFY	VERIFY
V	VOLTS, VOLTAGE
WP	WEATHERPROOF
W	WIRE, WHITE
WI	WITH
W/O	WITHOUT
WAO	WORK AREA OUTLET

Connections / Equipment

	COMBINATION ADJUSTABLE FREQUENCY DRIVE WITH SAFETY DISCONNECT SWITCH
	COMBINATION MOTOR STARTER/FUSED DISCONNECT SWITCH
	CONTACTOR COIL
	HEAVY DUTY FUSED DISCONNECT SWITCH
	MOTOR CONNECTION
	NON-FUSED DISCONNECT SWITCH
	RELAY
	REMOTE DRIVER FOR LED LUMINAIRES
	TRANSFORMER
	FIRE SMOKE DAMPER
	SMOKE DAMPER
	CEILING MOUNTED JUNCTION BOX
	FLOOR MOUNTED JUNCTION BOX
	WALL-MOUNTED JUNCTION BOX

General

	DETAIL NUMBER AND SHEET LOCATION
	EQUIPMENT IDENTIFICATION
	KEYED NOTE
	POINT OF CONNECTION
	SECTION NUMBER AND SHEET LOCATION
	DEMOLISH
	EXISTING WORK
	NEW WORK

Lighting

	COMBINATION EXIT SIGN CEILING MOUNTED AND DUAL HEAD EMERGENCY EGRESS LIGHTING WITH BATTERY PACK - ARROW(S) INDICATES DIRECTION IF SHOWN
	COMBINATION EXIT SIGN WALL MOUNTED AND DUAL HEAD EMERGENCY EGRESS LIGHTING WITH BATTERY PACK - ARROW(S) INDICATES DIRECTION IF SHOWN
	EMERGENCY LUMINAIRE WITH BATTERY PACK
	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
	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 EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT

	SURFACE MOUNTED 2' X 4' LUMINAIRE
	SURFACE MOUNTED 2' X 4' LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT
	SURFACE OR PENDANT MOUNTED 1' X 4' LUMINAIRE
	SURFACE OR PENDANT MOUNTED 1' X 4' LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT
	SURFACE OR PENDANT MOUNTED 1' X 8' LUMINAIRE
	SURFACE OR PENDANT MOUNTED 6' X 8' LUMINAIRE
	SURFACE OR PENDANT MOUNTED LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT
	SURFACE OR PENDANT MOUNTED STRIPLIGHT
	WALL MOUNTED 6' WIDE LUMINAIRE
	WALL MOUNTED 6' WIDE LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT
	WALL MOUNTED 12' WIDE LUMINAIRE
	WALL MOUNTED 12' WIDE LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT
	WALL MOUNTED LUMINAIRE
	WALL MOUNTED LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT

Miscellaneous

	BRANCH CIRCUIT WIRING. ARROW INDICATES HOME RUN TO 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 INSULATED GREEN GROUND CONDUCTOR. SECOND CURVED TICK MARK INDICATES "ISOLATED GROUND" (GREEN INSULATION WITH YELLOW STRIPE) CONDUCTOR.
	BRANCH PANEL
	CIRCUIT BREAKER
	DRY TYPE TRANSFORMER
	FLUSH MOUNT EQUIPMENT ENCLOSURE AS NOTED
	FLUSH WALL MOUNTED BRANCH PANEL
	GROUND BAR
	GROUNDING POINT
	MAIN DISTRIBUTION PANEL / SUB DISTRIBUTION PANEL
	SURFACE MOUNT EQUIPMENT ENCLOSURE AS NOTED

Raceways

	EXISTING CONDUIT CONCEALED IN WALL OR CEILING SPACE
	EXISTING CONDUIT ROUTED BELOW FLOOR / GRADE
	CONDUIT CONCEALED IN WALL OR CEILING SPACE
	CONDUIT ROUTED BELOW FLOOR / GRADE
	CONDUIT ELLED DOWN
	CONDUIT ELLED UP
	CONDUIT/WIRING CONTINUATION
	CONDUIT/WIRING STUBBED OUT WITH END CAP OR INSULATED PLASTIC BUSHING
	FLEXIBLE CONDUIT

Switches and Receptacles

	COMBINATION COMMUNICATIONS OUTLET AND DOUBLE DUPLEX RECEPTACLE, FLUSH FLOOR
	COMBINATION COMMUNICATIONS OUTLET AND DUPLEX RECEPTACLE, FLUSH FLOOR
	DUPLEX RECEPTACLE (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS) A = ABOVE COUNTER B = CLOCK HANGER C = FLUSH CEILING MOUNTED E = EMERGENCY F = ARC FAULT PROTECTED BY BREAKER IN PANEL G = GROUND FAULT CIRCUIT INTERRUPTER H = HOSPITAL GRADE K = CHILD RESISTANT COVER L = ISOLATED GROUND P = PENDANT MOUNTED WITH CORD GRIPS. VERIFY PENDANT LENGTH R1 = HALF SWITCHED BY OCCUPANCY SENSOR RELAY R2 = FULLY SWITCHED BY OCCUPANCY SENSOR RELAY S = SPLIT WIRED T = TAMPER RESISTANT SHUTTERED RECEPTACLE U = USB PORT(S) W = WEATHERPROOF CONTINUOUS USE COVER, GFCI PROTECTED, WITH WEATHER-RESISTANT RECEPTACLE
	DUPLEX RECEPTACLE, FLUSH FLOOR
	DOUBLE DUPLEX RECEPTACLE, FLUSH FLOOR
	DOUBLE DUPLEX RECEPTACLE. SEE LETTER CODE LIST AT DUPLEX RECEPTACLE FOR OPTIONS
	SINGLE RECEPTACLE, FLUSH FLOOR
	SINGLE RECEPTACLE. SEE LETTER CODE LIST AT DUPLEX RECEPTACLE FOR OPTIONS
	EQUIPMENT ELECTRICAL CONNECTION
	SPECIAL PURPOSE RECEPTACLE. LETTER CODE DENOTES RECEPTACLE CONFIGURATION LX-XXR = NEMA CONFIGURATION TWIST-LOCK RECEPTACLE X-XXR = NEMA CONFIGURATION STRAIGHT BLADE RECEPTACLE P = PENDANT MOUNT WITH CORD GRIPS. VERIFY PENDANT LENGTH C = COORDINATE RECEPTACLE CONFIGURATION WITH EQUIPMENT BEING SUPPLIED PENDANT RECEPTACLE WITH CORD GRIPS. VERIFY PENDANT LENGTH. SEE LETTER CODE LIST AT DUPLEX RECEPTACLE FOR OPTIONS CEILING MOUNTED OCCUPANCY SENSOR P = PASSIVE INFRARED D = DUAL TECHNOLOGY H = ULTRASONIC, 360 DEG RANGE U = ULTRASONIC, HALLWAY PATTERN V (LOWERCASE) = VACANCY CONTROL DESIGNATION WALL MOUNTED OCCUPANCY SENSOR P = PASSIVE INFRARED D = DUAL TECHNOLOGY V (LOWERCASE) = VACANCY CONTROL DESIGNATION WALL MOUNTED OCCUPANCY SENSOR/ SWITCH S = PASSIVE INFRARED WITH INTEGRAL "OFF" SWITCH T = DUAL RELAY PASSIVE INFRARED WITH TWO INTEGRAL "OFF" SWITCHES D = PASSIVE INFRARED WITH INTEGRAL DIMMER TO OFF. V (LOWERCASE) = VACANCY CONTROL DESIGNATION
	MULTIPLE CHANNEL SURFACE METAL RECEPTACLE RACEWAY WITH LOW VOLTAGE DIVIDERS, LENGTH AND RECEPTACLES AS INDICATED
	SURFACE METAL RECEPTACLE RACEWAY
	PHOTO ELECTRIC SWITCH D = CONTINUOUS DIMMING PHOTOCELL S = SWITCHED PHOTOCELL SINGLE POLE SWITCH 2 = DOUBLE POLE SWITCH 3 = THREE-WAY SWITCH 4 = FOUR-WAY SWITCH a THRU z (LOWERCASE) = LUMINAIRE CONTROL DESIGNATION D = DIMMER F = FAN SPEED CONTROL K = KEY OPERATED SWITCH L = LIGHTED HANDLE M = MANUAL MOTOR STARTER WITH THERMAL OVERLOAD P = SWITCH WITH PILOT LIGHT S = SENTRY SWITCH T = INTERVAL TIMER W = WEATHERPROOF SWITCH V = LOW VOLTAGE SWITCH

Telecommunications

	RACEWAY ONLY DATA/TELEPHONE OUTLET. PROVIDE DOUBLE GANG BACK BOX AND SINGLE GANG ADAPTER PLATE WITH 1" C. AND PULLSTRING TO ACCESSIBLE CEILING SPACE (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS) A = ABOVE COUNTER C = CEILING MOUNTED ABOVE ACCESSIBLE CEILING F = FLUSH CEILING MOUNTED R = SURFACE MOUNTED ON RACEWAY 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 LIST AT DATA/TELEPHONE OUTLET FOR OPTIONS.
--	--

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 re-terminated 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 - DEMOLITION 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
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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 - OVERALL - ELECTRICAL

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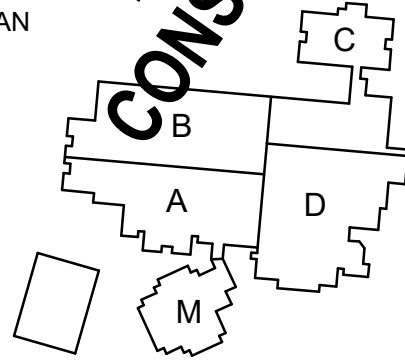
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ISSUES		
No.	DESCRIPTION	DATE
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2	100% DESIGN DEVELOPMENT	11.01.19

KEYPLAN

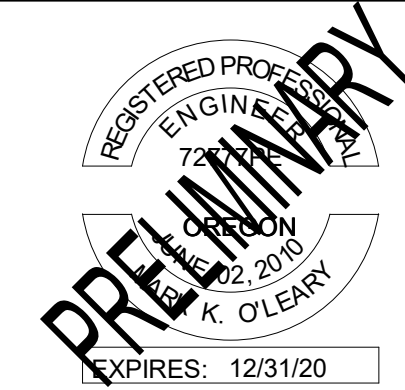


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PROJECT

**Beaver Acres ES Seismic Improvements**  
2125 SW 170th Avenue  
Beaverton, OR 97003

PROJECT NO:

122519

DRAWN BY:

Author

CHECKED BY:

Checker

PROJECT MGR:

Designer

APPROVED BY:

Approver

SHEET TITLE

**SYMBOL LIST AND GENERAL NOTES - ELECTRICAL**

SHEET NUMBER

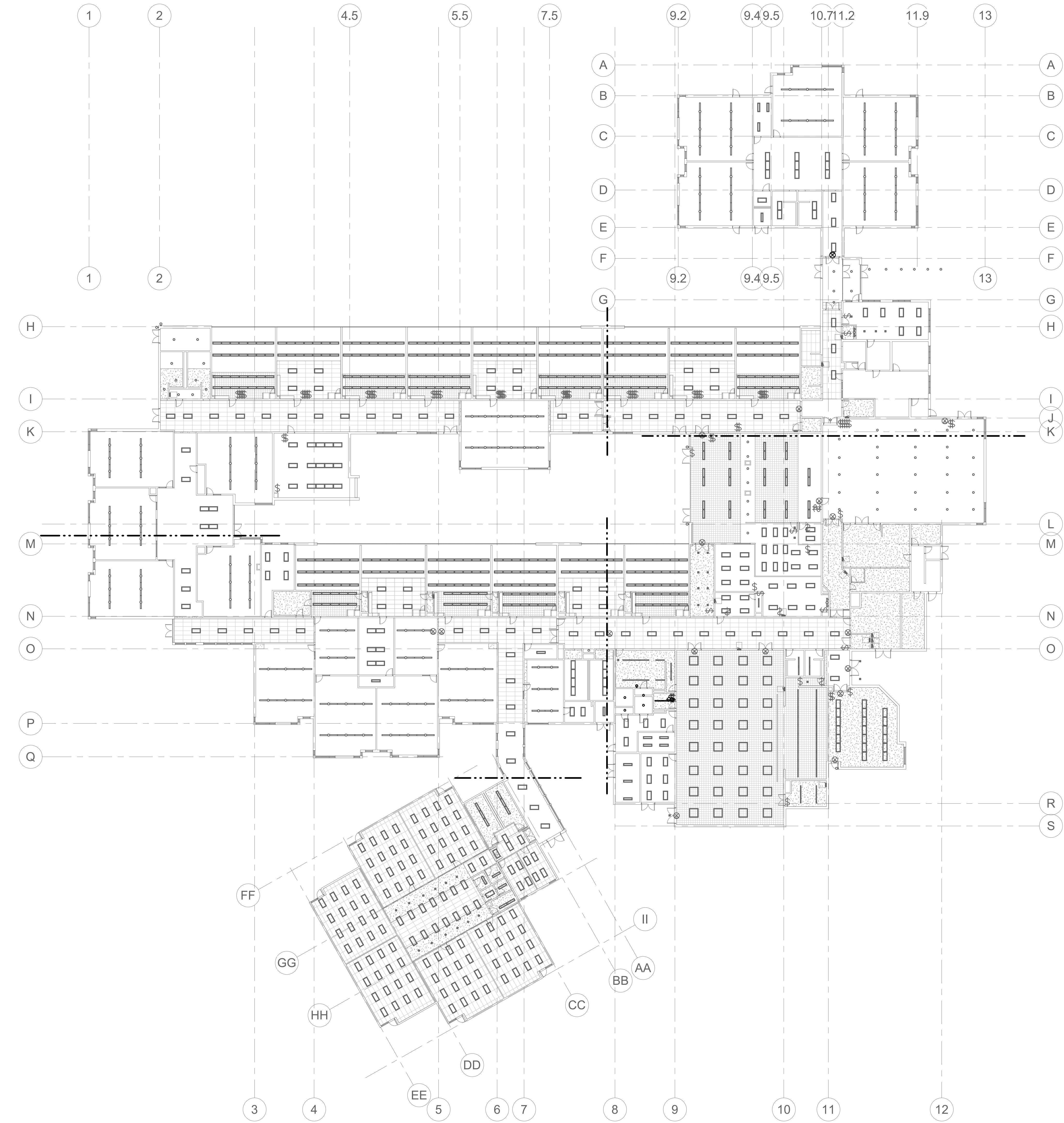
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ISSUE

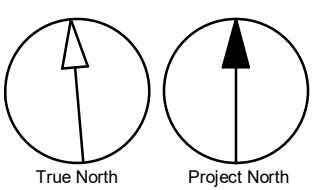
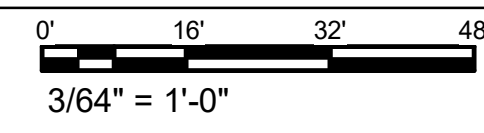
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1 LEVEL 01 - LIGHTING PLAN - DEMO - OVERALL - OVERALL



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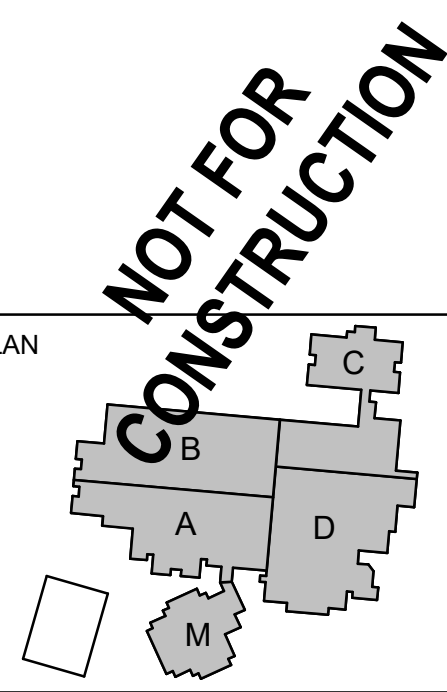
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KEYPLAN



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Approver

SHEET TITLE

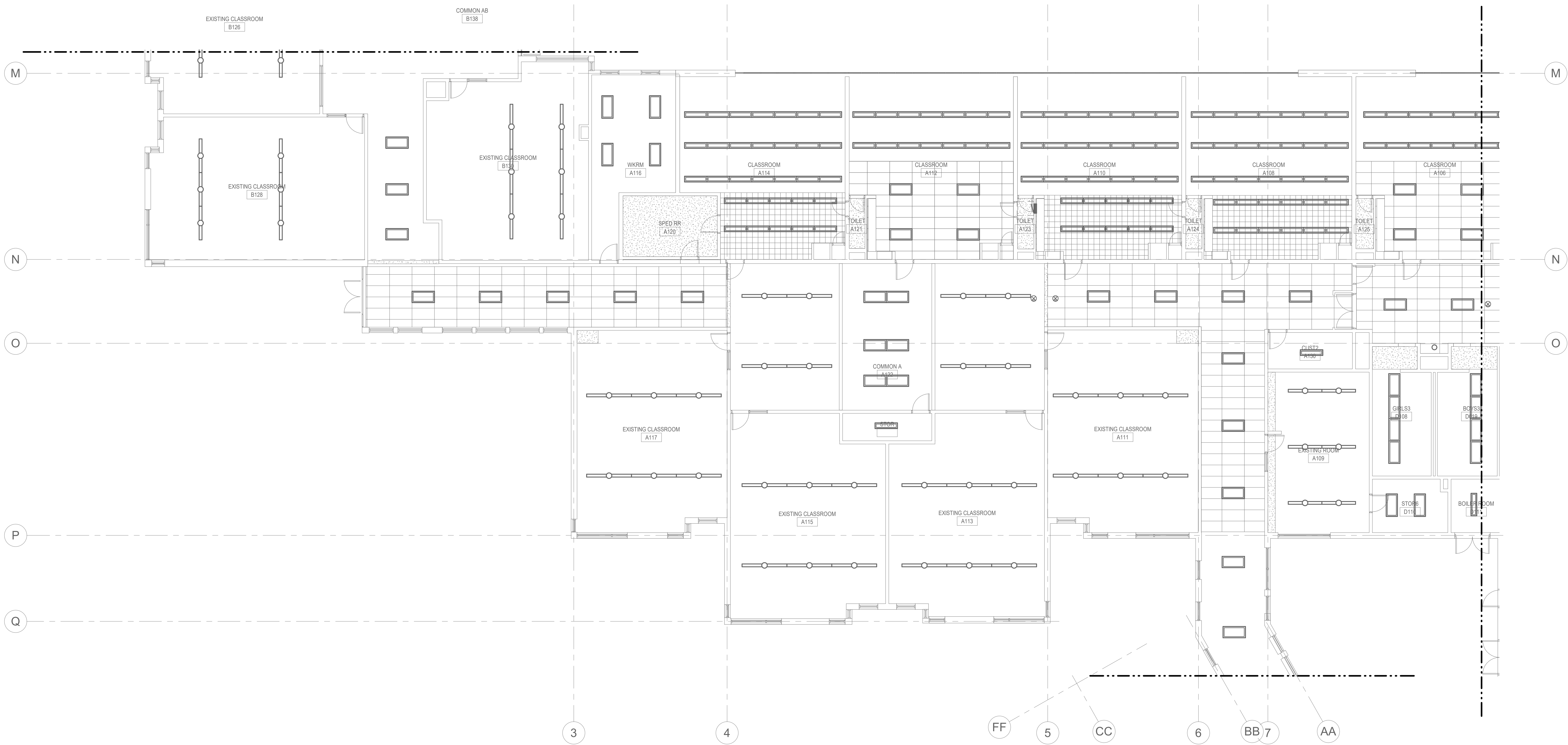
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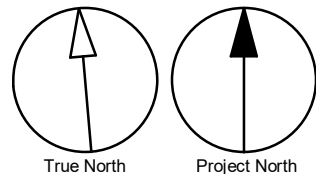
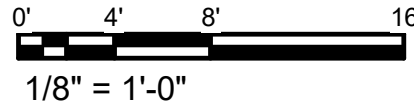
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1 LEVEL 01 - LIGHTING PLAN - DEMO - OVERALL - SECTOR A



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**Beaver Acres ES Seismic  
Improvements**  
2125 SW 170th Avenue  
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Approver

SHEET TITLE

**FIRST FLOOR DEMO PLAN -  
SECTOR A - LIGHTING**

SHEET NUMBER

**ED101A**

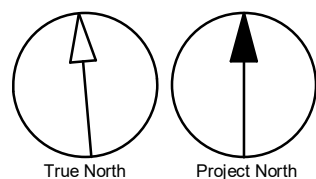
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1 LEVEL 01 - LIGHTING PLAN - DEMO - OVERALL - SECTOR B

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



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Beaver Acres ES Seismic Improvements

2125 SW 170th Avenue

Beaverton, OR 97003

PROJECT NO:

122519

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Author

CHECKED BY:

Checker

PROJECT MGR:

Designer

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Approver

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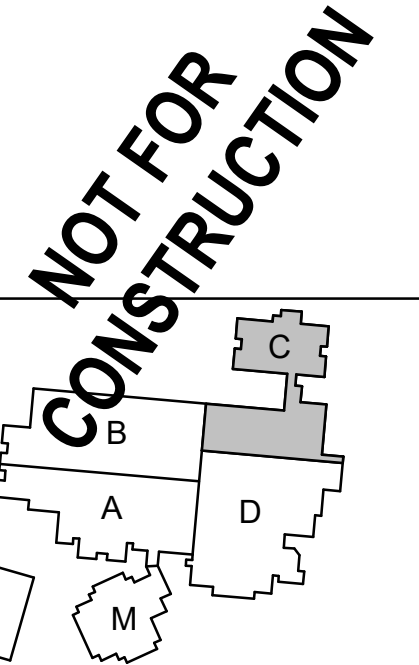
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SHEET NUMBER

ED101B

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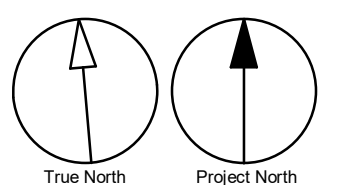
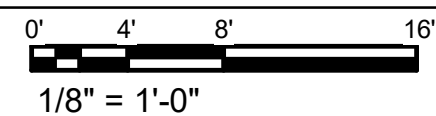
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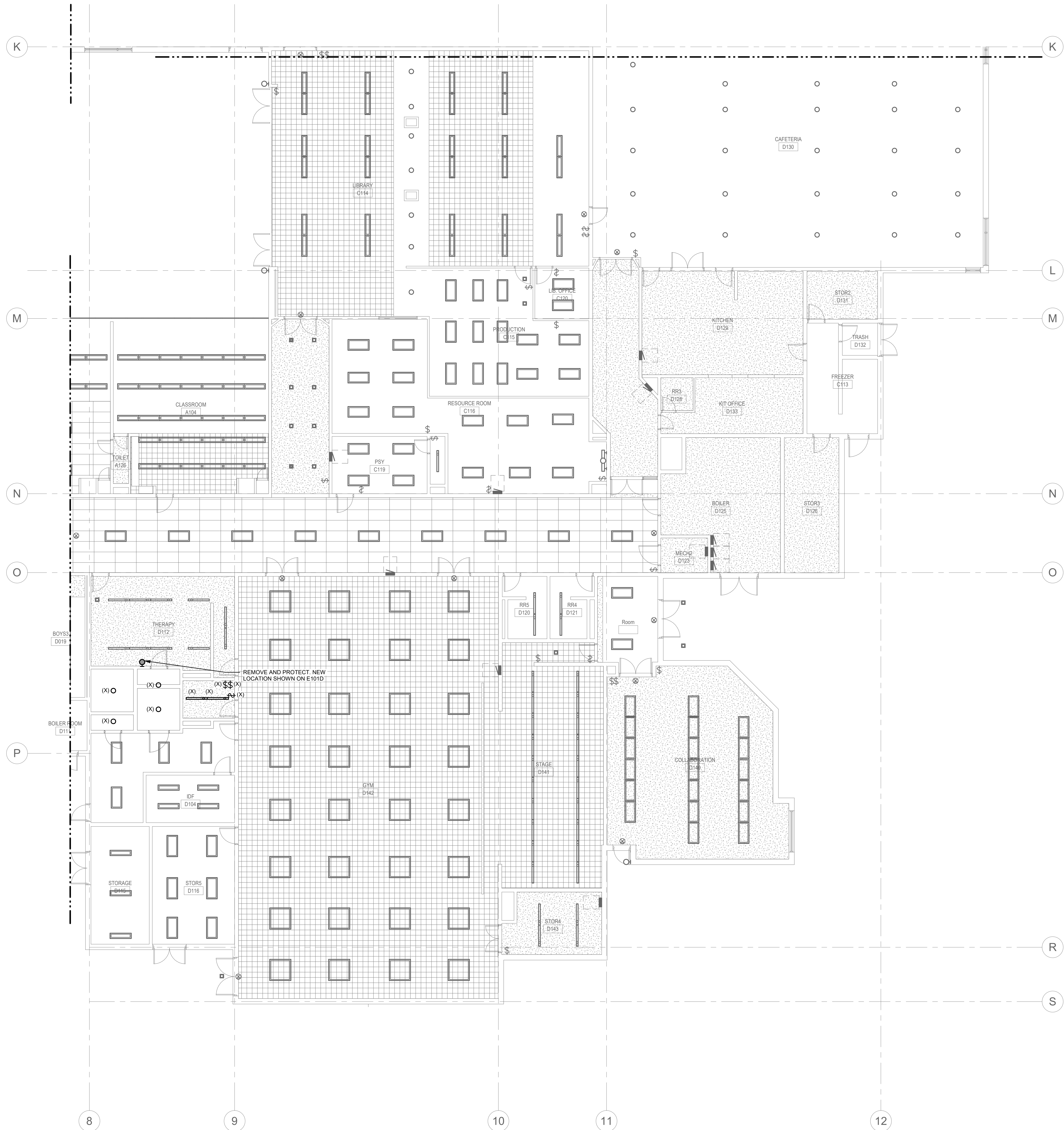
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SECTOR C - LIGHTING**

SHEET NUMBER <b>ED101C</b>	ISSUE
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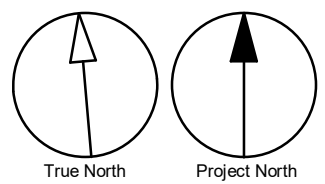


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1 LEVEL 01 - LIGHTING PLAN - DEMO - OVERALL - SECTOR D

0' 8' 16' 32'  
1/8" = 1'-0"



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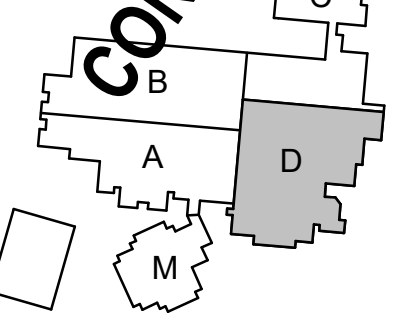
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**KEYPLAN**



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**PROJECT**  
**Beaver Acres ES Seismic Improvements**  
2125 SW 170th Avenue  
Beaverton, OR 97003

**PROJECT NO:**  
122519

<b>DRAWN BY:</b> Author	<b>CHECKED BY:</b> Checker
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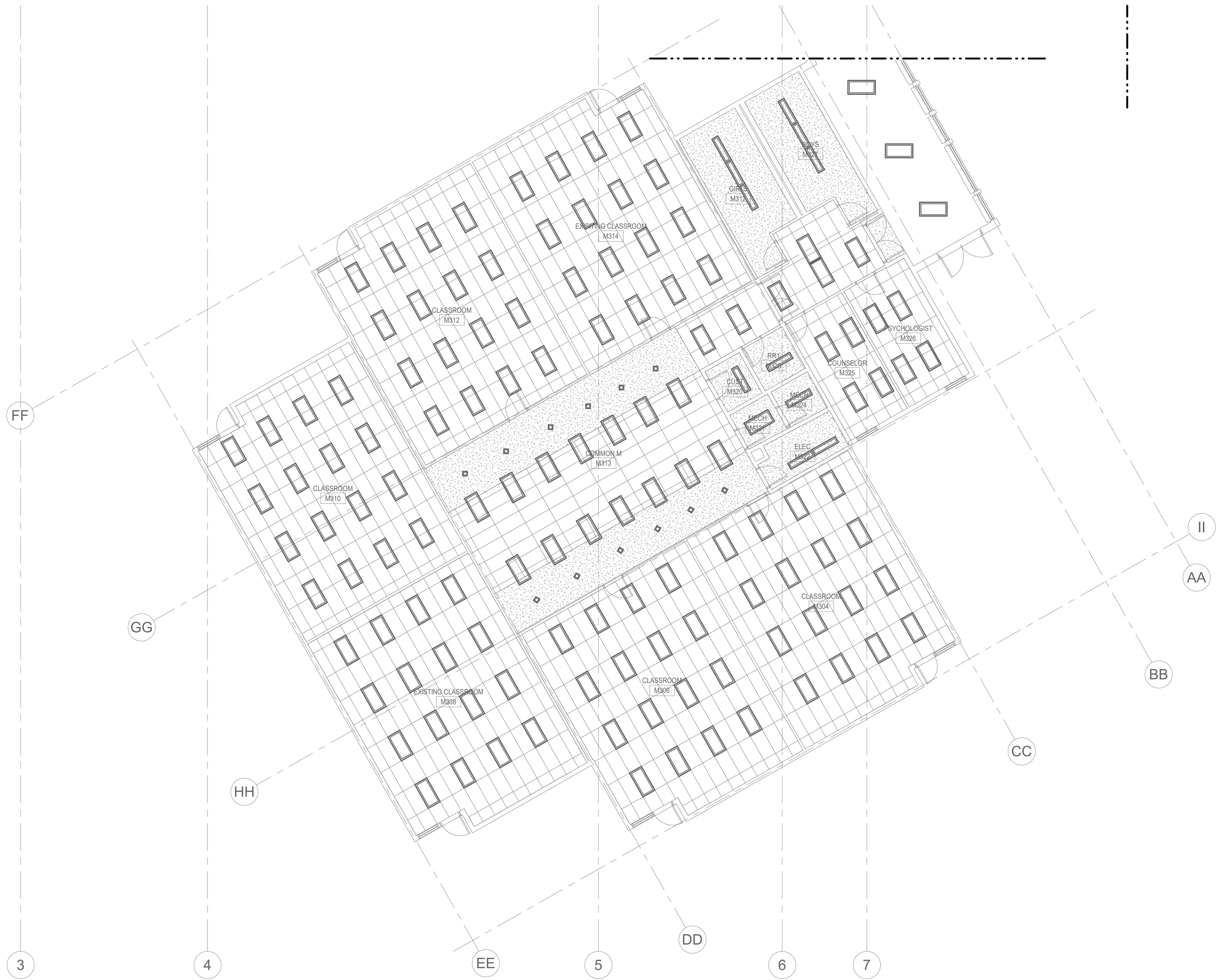
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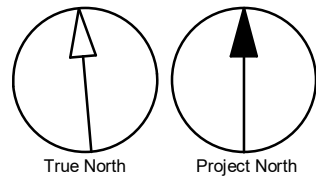
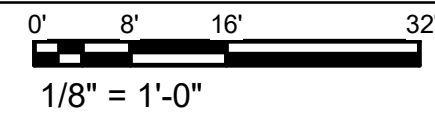
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1 LEVEL 01 - LIGHTING PLAN - DEMO - OVERALL - SECTOR M



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**INTERFACE**  
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PROJECT 2019-0496  
CONTACT John Kolas  
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PROJECT

**Beaver Acres ES Seismic Improvements**  
2125 SW 170th Avenue  
Beaverton, OR 97003

PROJECT NO:

122519

DRAWN BY:

Author

CHECKED BY:

Checker

PROJECT MGR:

Designer

APPROVED BY:

Approver

SHEET TITLE

**FIRST FLOOR DEMO PLAN - SECTOR M - LIGHTING**

SHEET NUMBER

**ED101M**

ISSUE

SCALE CHECK

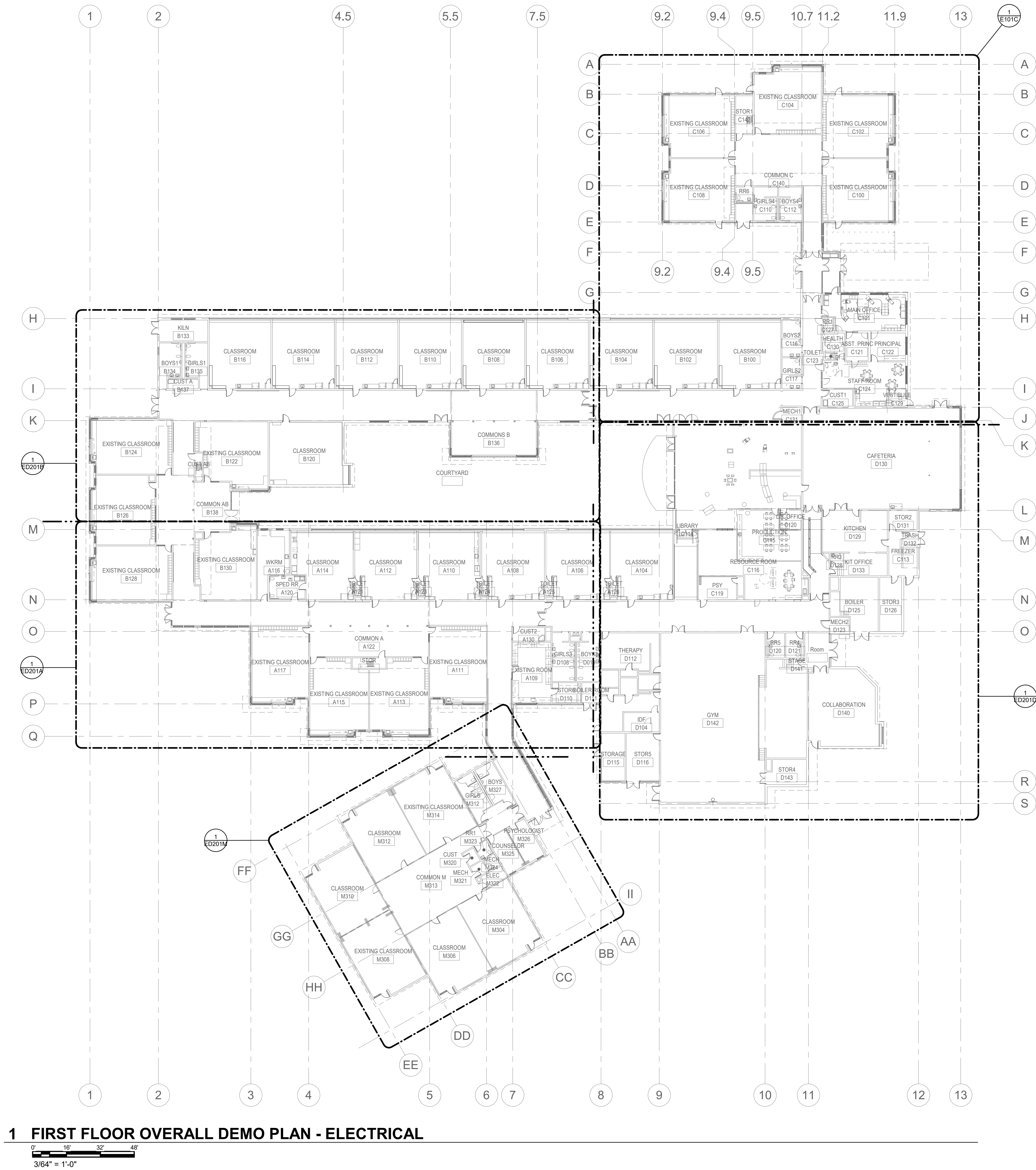
1/8" = 1'-0"

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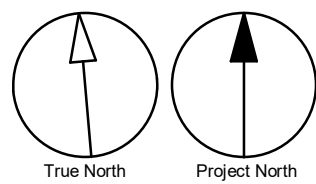


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1 FIRST FLOOR OVERALL DEMO PLAN - ELECTRICAL

0' 16' 32' 48'  
3/64" = 1'-0"



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Beaverton School District

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ISSUES		DATE
No.	DESCRIPTION	
1	SCHEMATIC DESIGN	10.04.19
2	100% DESIGN DEVELOPMENT	11.01.19

KEYPLAN

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PROJECT

**Beaver Acres ES Seismic Improvements**  
2125 SW 170th Avenue  
Beaverton, OR 97003

PROJECT NO: 122519	
DRAWN BY: Author	CHECKED BY: Checker
PROJECT MGR: Designer	APPROVED BY: Approver

SHEET TITLE

**FIRST FLOOR OVERALL DEMO PLAN - ELECTRICAL**

SHEET NUMBER	ISSUE
<b>ED201</b>	<b>2</b>

SCALE CHECK

1 in

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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.

CLIENT  
Beaverton School District

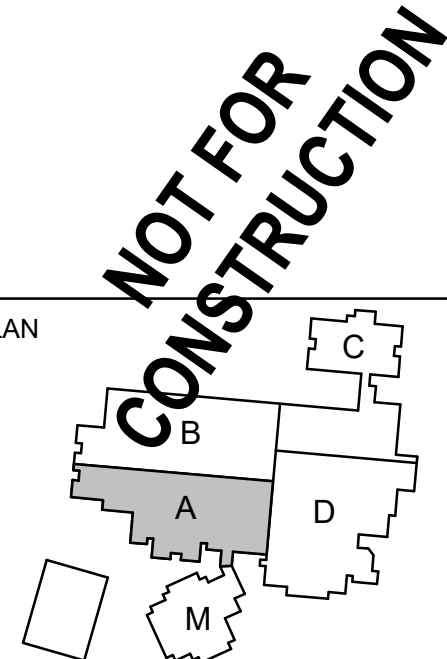


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1	SCHEMATIC DESIGN	10.04.19
2	100% DESIGN DEVELOPMENT	11.01.19



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**PROJECT** 2019-0496  
**CONTACT** Lorena Ruiz  
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**PROJECT**  
**Beaver Acres ES Seismic Improvements**  
2125 SW 170th Avenue  
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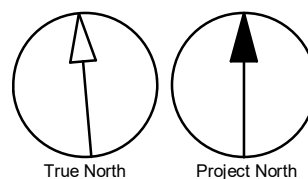
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**DRAWN BY:** Author  
**PROJECT MGR:** Designer  
**CHECKED BY:** Checker  
**APPROVED BY:** Approver

**SHEET TITLE**  
**FIRST FLOOR DEMO PLAN - SECTOR A - ELECTRICAL**

**SHEET NUMBER** ED201A  
**ISSUE** 2

1 FIRST FLOOR DEMO PLAN - SECTOR A - ELECTRICAL

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





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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Beaverton School District

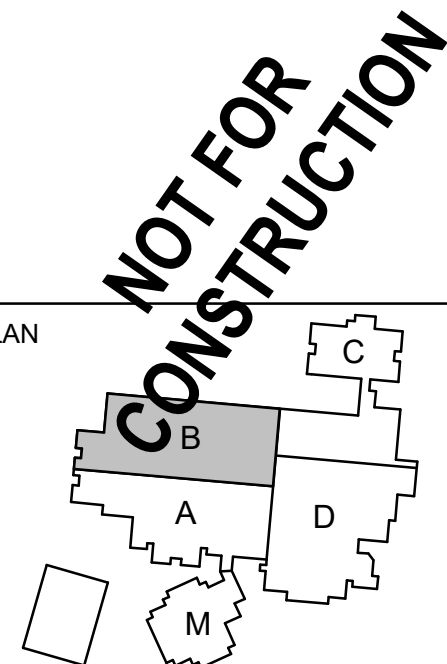


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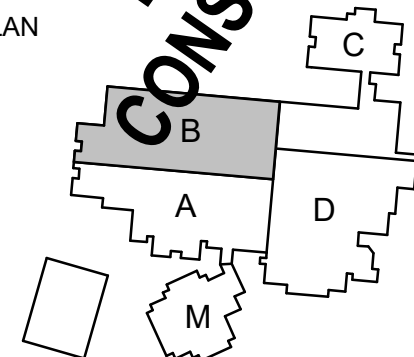
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2125 SW 170th Avenue  
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PROJECT NO:  
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DRAWN BY:  
Author

CHECKED BY:  
Checker

PROJECT MGR:  
Designer

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Approver

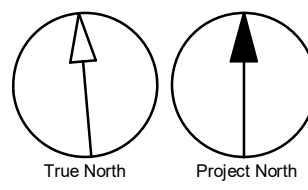
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**FIRST FLOOR DEMO PLAN - SECTOR B - ELECTRICAL**

SHEET NUMBER

**ED201B**

ISSUE

**2**



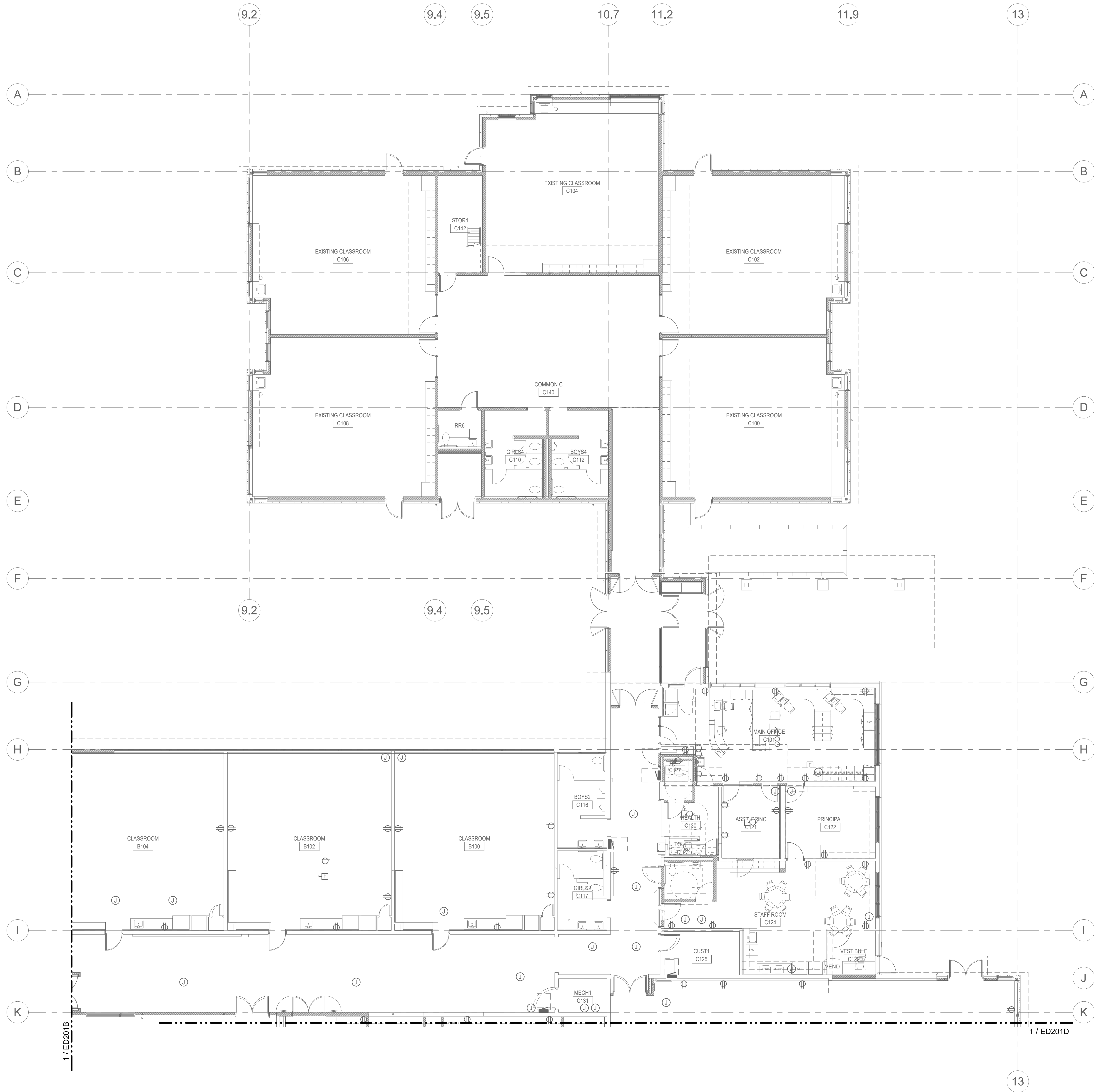
1 FIRST FLOOR DEMO PLAN - SECTOR B - ELECTRICAL

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1/8" = 1'-0"

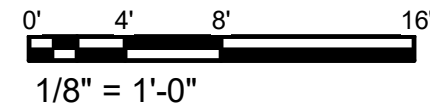
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1 FIRST FLOOR DEMO PLAN - SECTOR C - ELECTRICAL



## 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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Beaverton School District

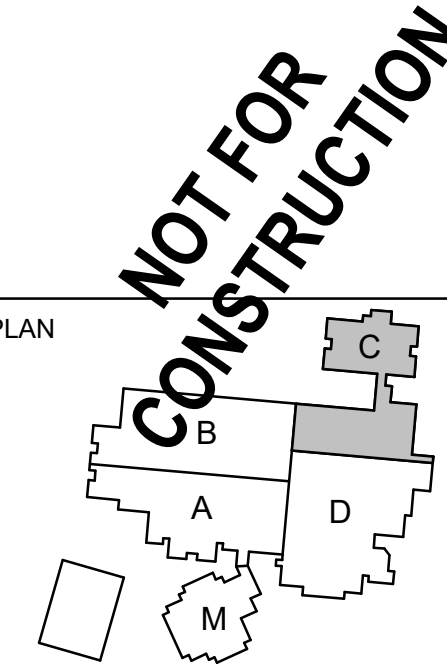


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**PROJECT**  
**Beaver Acres ES Seismic Improvements**  
2125 SW 170th Avenue  
Beaverton, OR 97003

**PROJECT NO:**  
122519

**DRAWN BY:**  
Author

**CHECKED BY:**  
Checker

**PROJECT MGR:**  
Designer

**APPROVED BY:**  
Approver

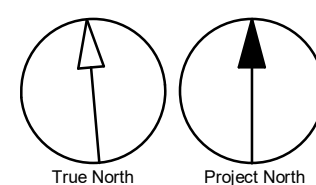
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**FIRST FLOOR DEMO PLAN - SECTOR C - ELECTRICAL**

**SHEET NUMBER**

**ED201C**

**ISSUE**

**2**



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1 FIRST FLOOR DEMO PLAN - SECTOR D - ELECTRICAL

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

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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Beaverton School District

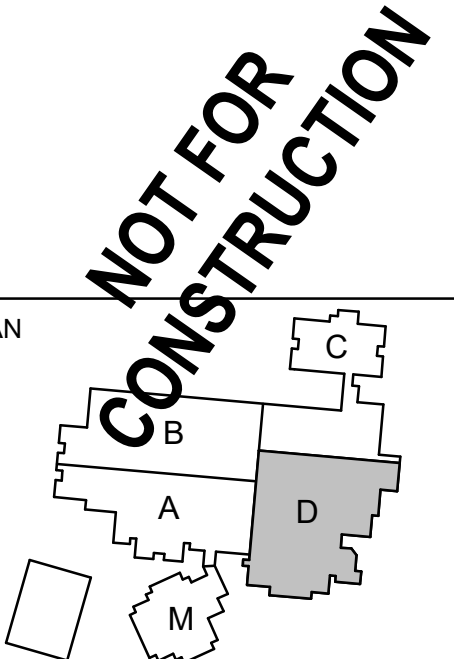


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2	100% DESIGN DEVELOPMENT	11.01.19



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PROJECT 2019-0456  
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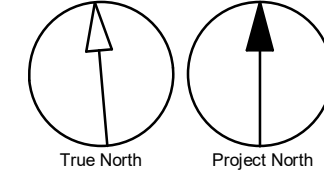
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**PROJECT**  
**Beaver Acres ES Seismic Improvements**  
2125 SW 170th Avenue  
Beaverton, OR 97003

**PROJECT NO:**  
122519  
**DRAWN BY:**  
Author  
**CHECKED BY:**  
Checker  
**PROJECT MGR:**  
Designer  
**APPROVED BY:**  
Approver

**SHEET TITLE**  
**FIRST FLOOR DEMO PLAN - SECTOR D - ELECTRICAL**

**SHEET NUMBER**  
ED201D  
**ISSUE**  
2



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1/19

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1 FIRST FLOOR DEMO PLAN - SECTOR M - ELECTRICAL

## 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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Beaverton School District

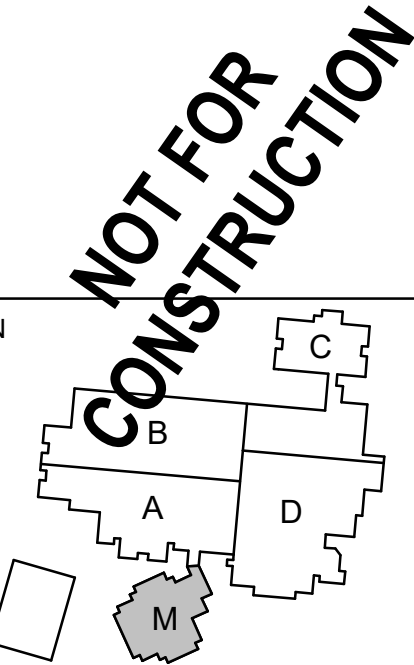


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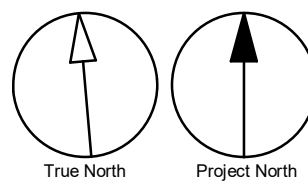
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tel 503 226 6950 fax 503 273 9192  
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**PROJECT**  
**Beaver Acres ES Seismic Improvements**  
2125 SW 170th Avenue  
Beaverton, OR 97003

**PROJECT NO:**  
122519  
**DRAWN BY:**  
Author  
**CHECKED BY:**  
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**PROJECT MGR:**  
Designer  
**APPROVED BY:**  
Approver

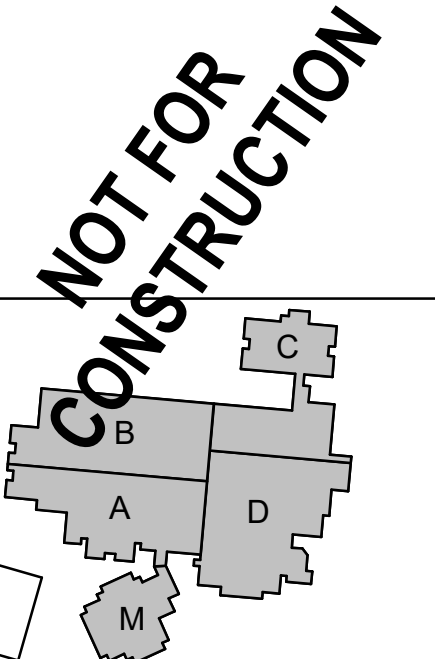
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**FIRST FLOOR DEMO PLAN - SECTOR M - ELECTRICAL**

**SHEET NUMBER**  
ED201M  
**ISSUE**  
2



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1/16




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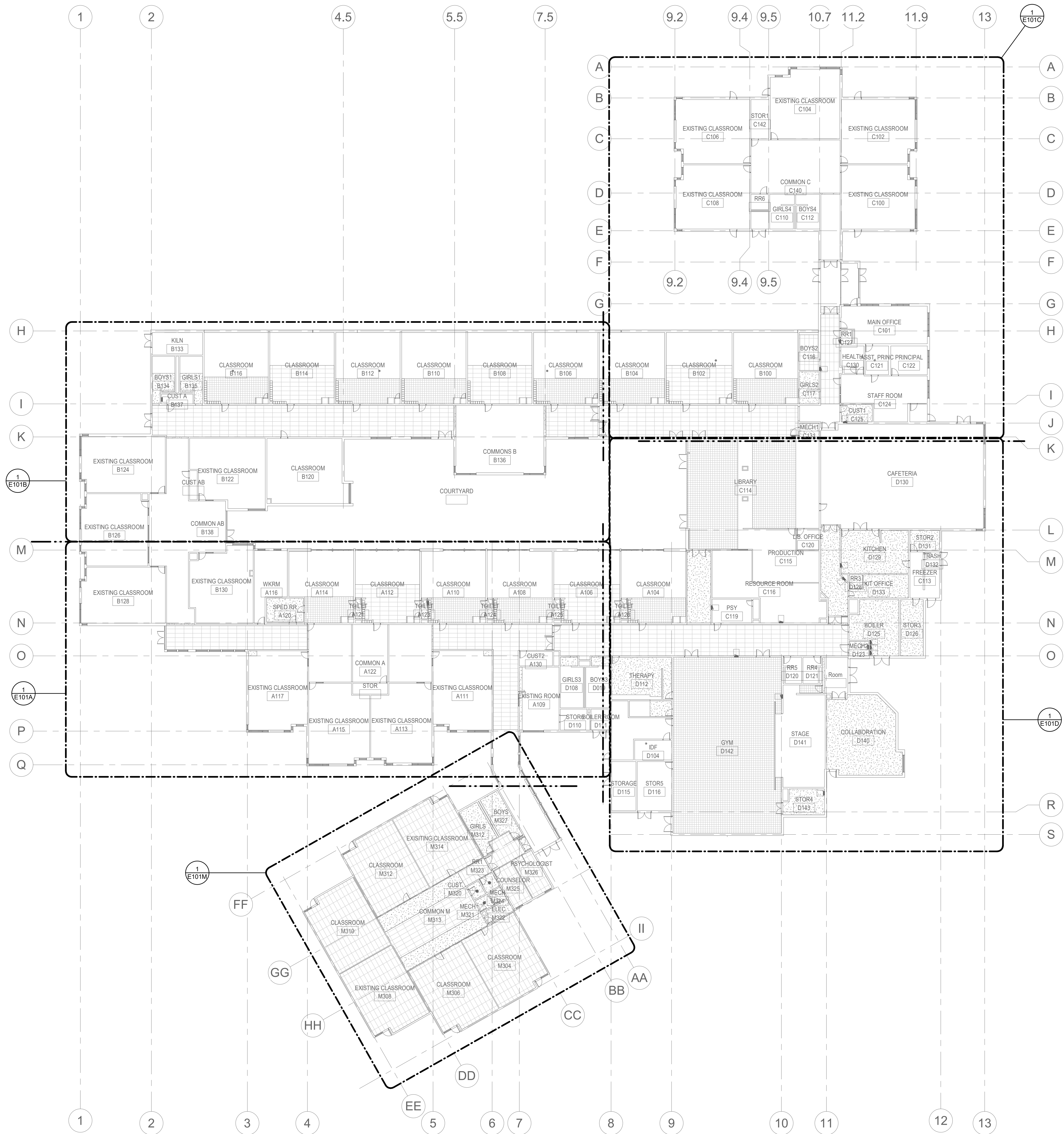
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Author

PROJECT MGR:  
**Designer**

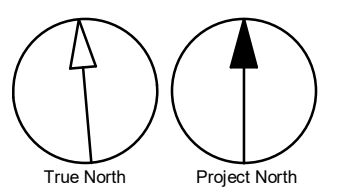
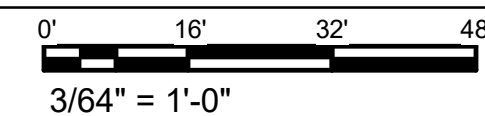
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FIRST FLOOR PLAN OVERALL - LIGHTING	

SHEET NUMBER  
E101

ISSUE  
2



## 1 FIRST FLOOR OVERALL PLAN - LIGHTING



## GENERAL SHEET NOTES

- A. VERIFY AND 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.

CLIENT  
Beaverton School District

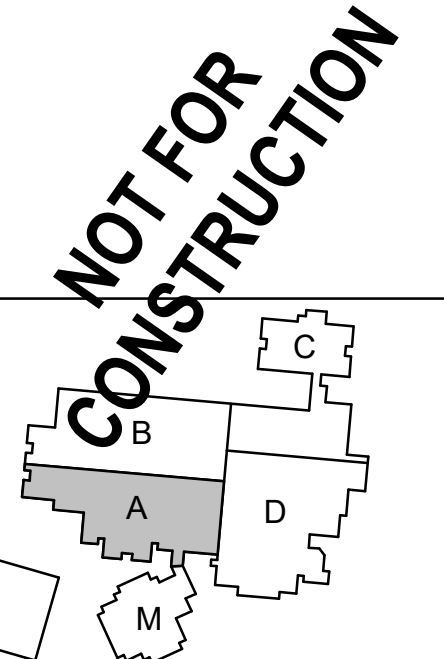


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**PROJECT** 2019-0496  
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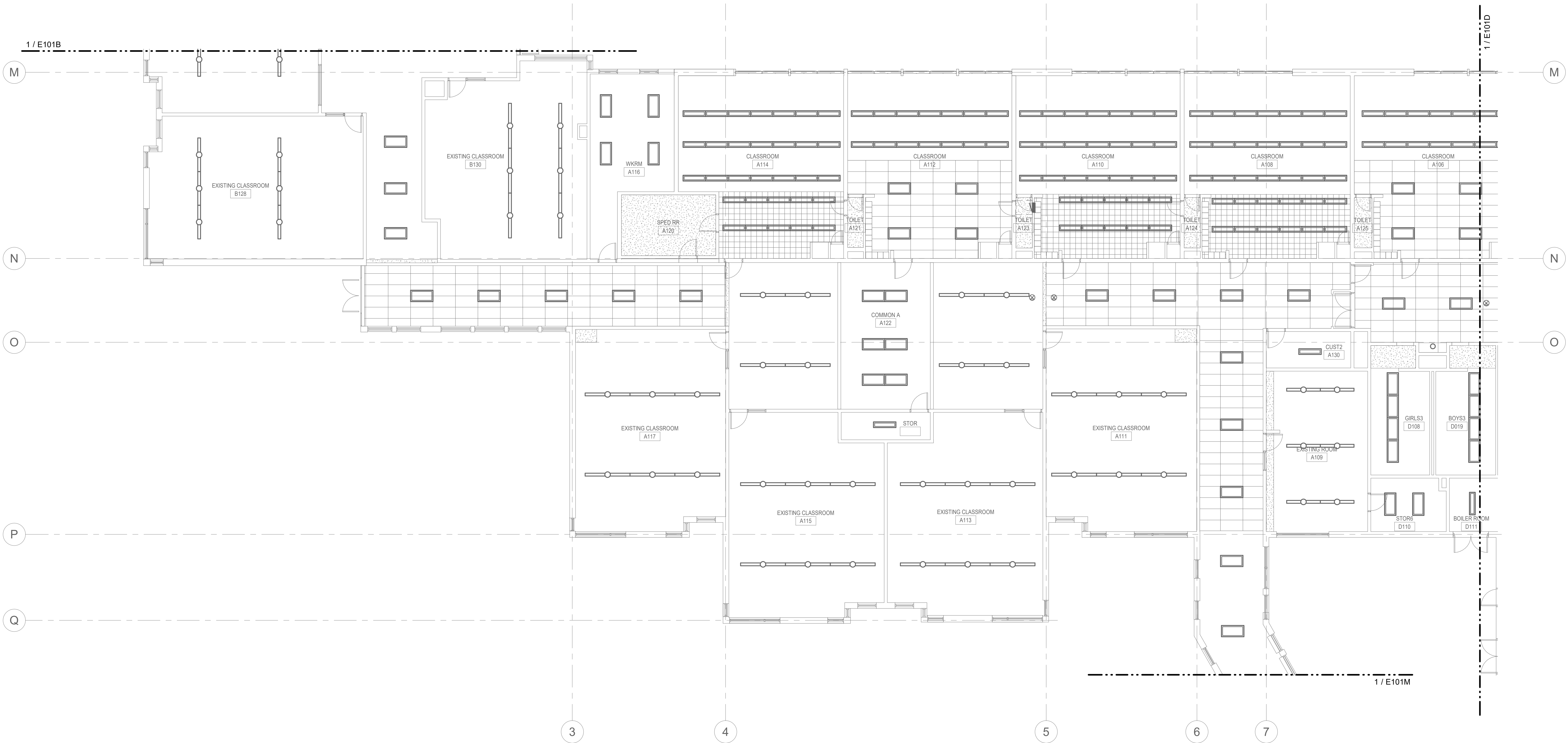
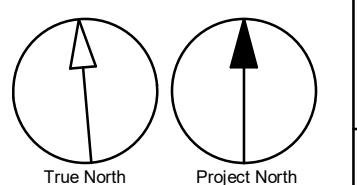
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**PROJECT**  
**Beaver Acres ES Seismic Improvements**  
2125 SW 170th Avenue  
Beaverton, OR 97003

**PROJECT NO:** 122519  
**DRAWN BY:** Author  
**PROJECT MGR:** Designer  
**CHECKED BY:** Checker  
**APPROVED BY:** Approver

**SHEET TITLE**  
**FLOOR PLAN - SECTOR A - LIGHTING**

**SHEET NUMBER** E101A  
**ISSUE** 2



## 1 FIRST FLOOR PLAN - SECTOR A - LIGHTING

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



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.
- 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.

CLIENT  
Beaverton School District

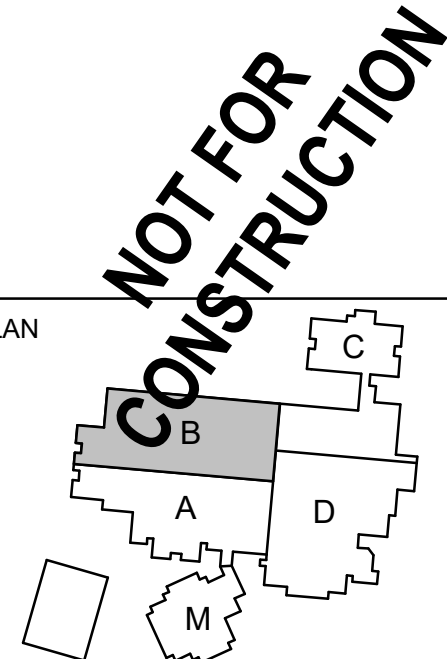


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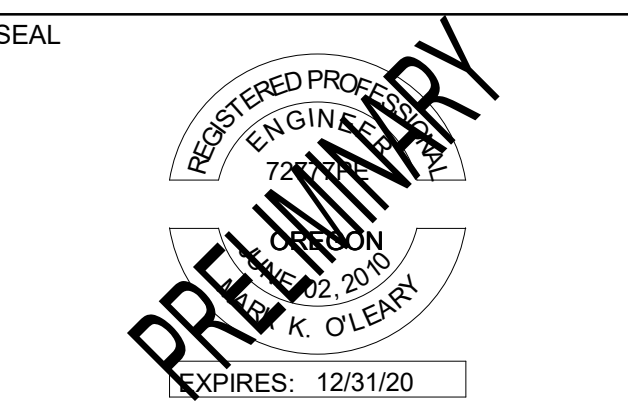
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No.	DESCRIPTION	DATE
1	SCHEMATIC DESIGN	10.04.19
2	100% DESIGN DEVELOPMENT	11.01.19



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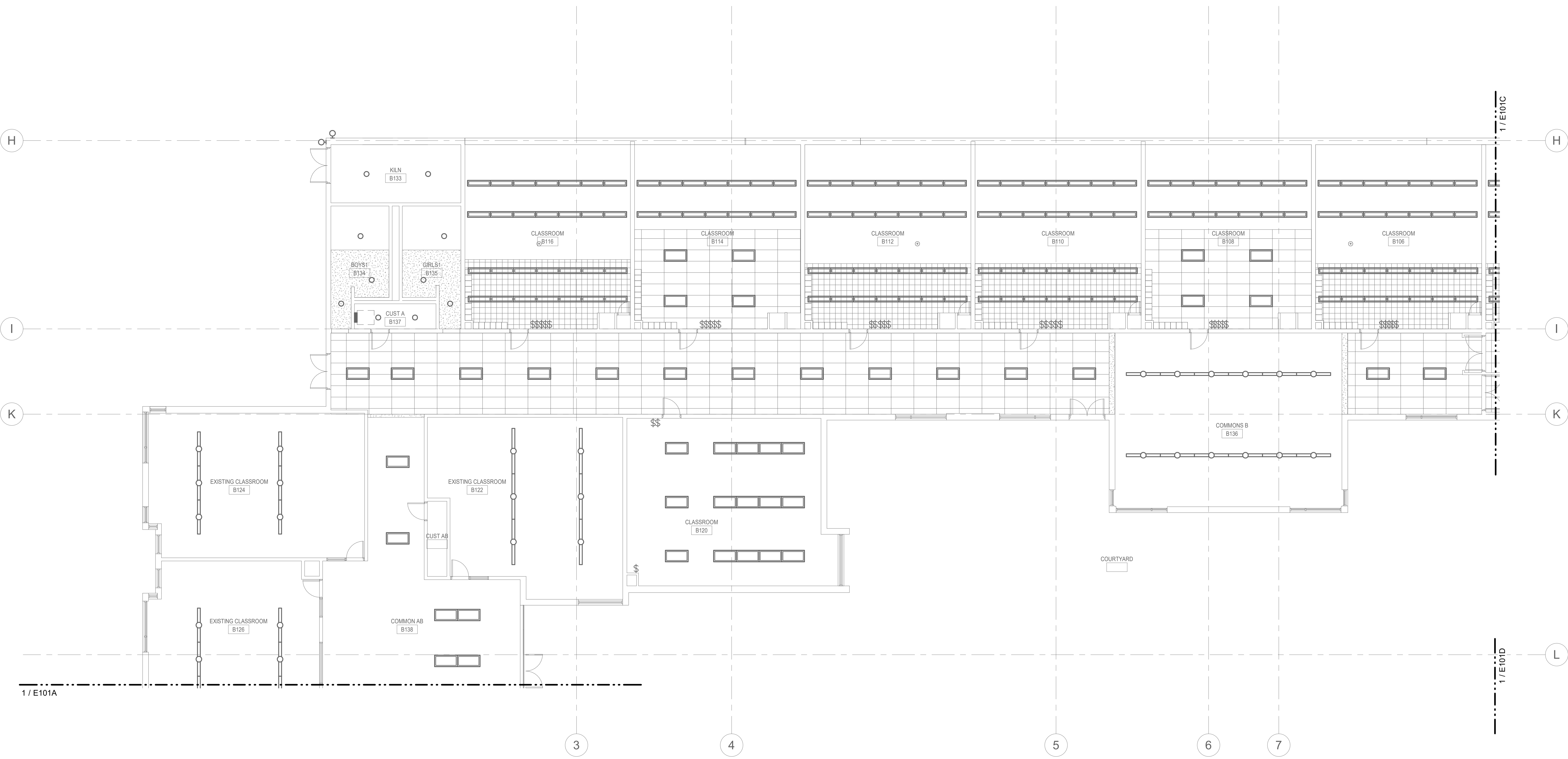
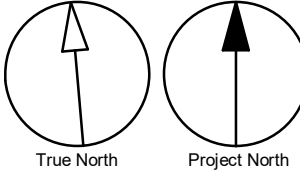
**PROJECT**  
**Beaver Acres ES Seismic Improvements**  
2125 SW 170th Avenue  
Beaverton, OR 97003

**PROJECT NO:**  
122519

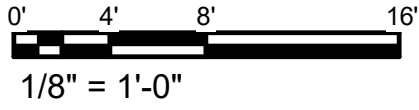
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<b>PROJECT MGR:</b> Designer	<b>APPROVED BY:</b> Approver

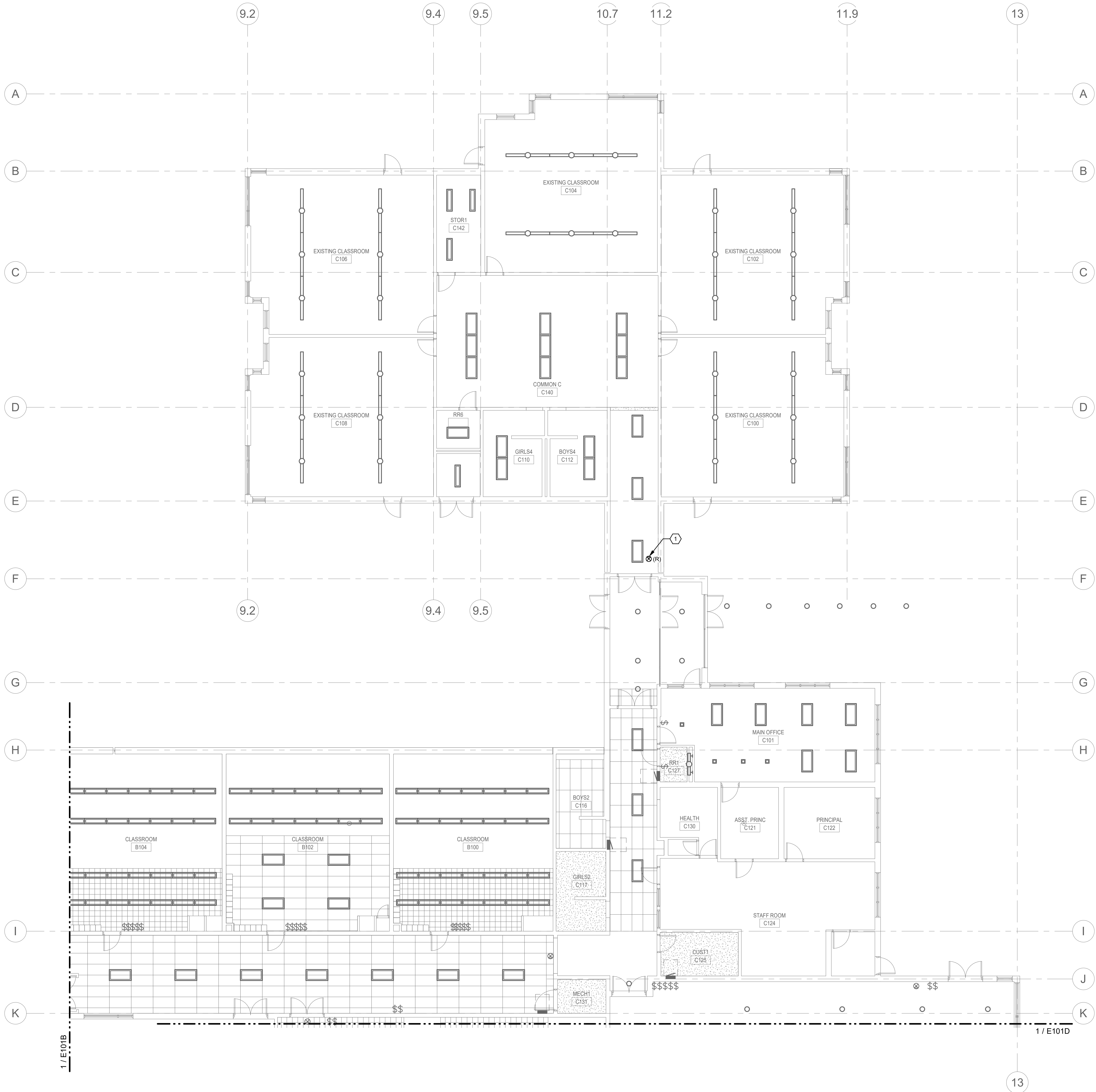
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**FLOOR PLAN - SECTOR B - LIGHTING**

<b>SHEET NUMBER</b> <b>E101B</b>	<b>ISSUE</b> <b>2</b>
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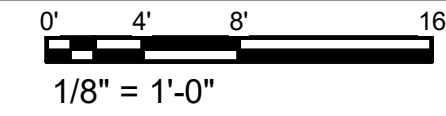


1 FIRST FLOOR PLAN - SECTOR B - LIGHTING





1 FIRST FLOOR PLAN - SECTOR C - LIGHTING



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.
- 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.

SHEET KEYNOTES

- 1 REMOVE AND RELOCATE EXIT SIGN NORTH AWAY FROM WALL.

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Beaverton School District

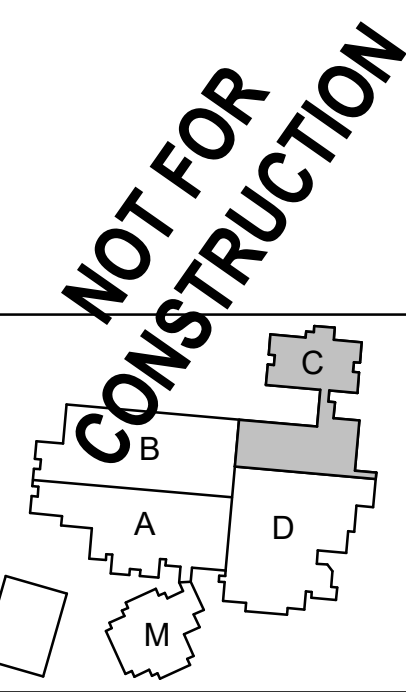


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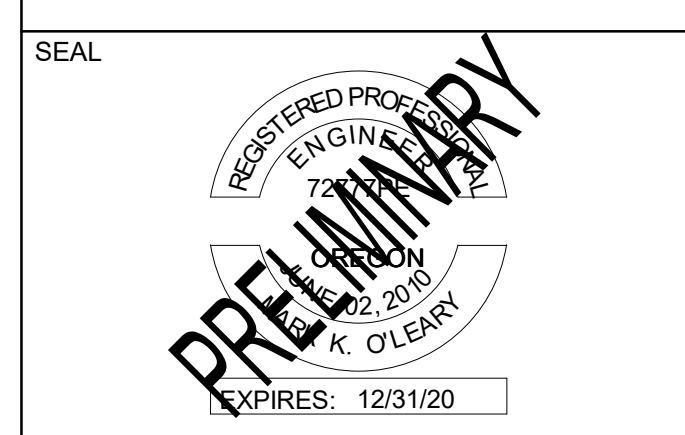
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ISSUES		
No.	DESCRIPTION	DATE
1	SCHEMATIC DESIGN	10.04.19
2	100% DESIGN DEVELOPMENT	11.01.19



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**INTERFACE ENGINEERING**  
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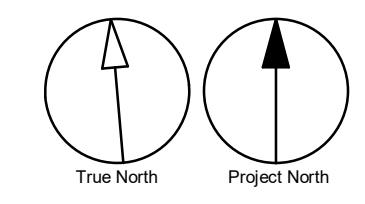
**PRIME CONSULTANT**  
**IBI GROUP**  
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ibigroup-usa.com

**PROJECT**  
**Beaver Acres ES Seismic Improvements**  
2125 SW 170th Avenue  
Beaverton, OR 97003

PROJECT NO: 122519	
DRAWN BY: Author	CHECKED BY: Checker
PROJECT MGR: Designer	APPROVED BY: Approver

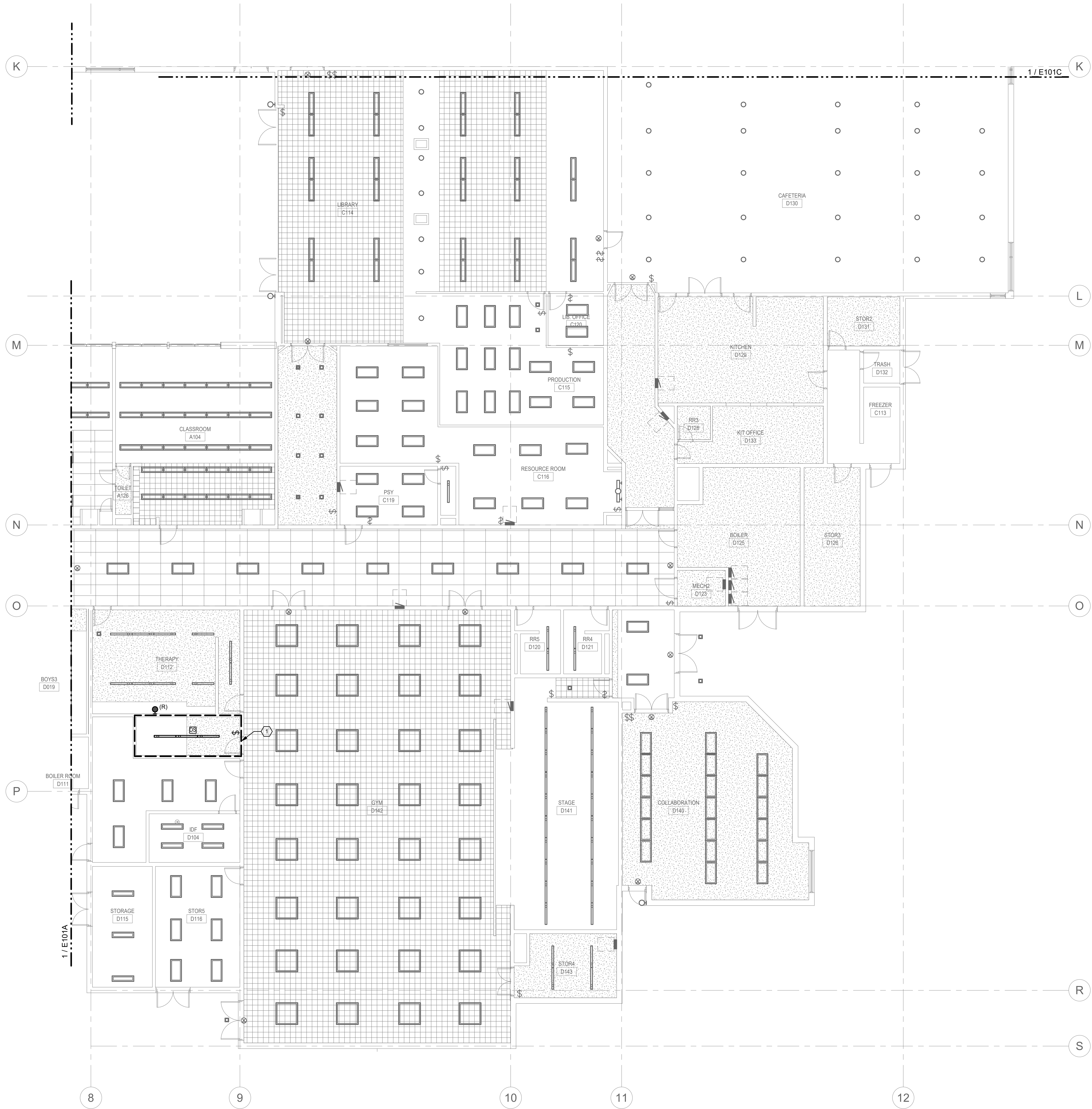
SHEET TITLE  
**FLOOR PLAN - SECTOR C - LIGHTING**

SHEET NUMBER <b>E101C</b>	ISSUE <b>2</b>
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10/30/2019 5:05:47 PM



1 FIRST FLOOR PLAN - SECTOR D - LIGHTING

### 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.
- 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.

### SHEET KEYNOTES

1. PROVIDE (3) CORELITE, JAYLUM - J3 SERIES SUSPENDED 1'x4' DIRECT/INDIRECT LUMINAIRE AND A WALL SWITCH.

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Beaverton School District

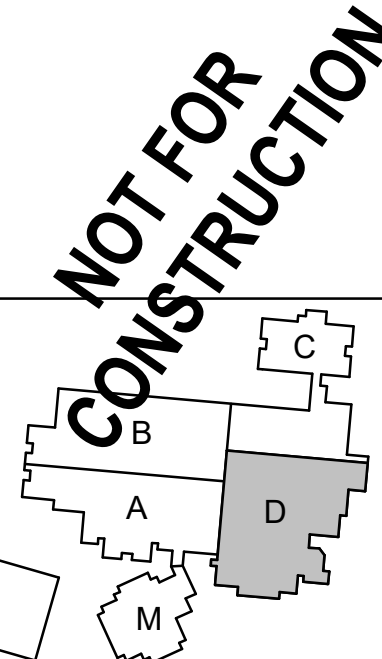


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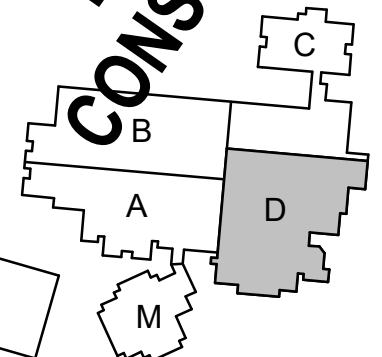
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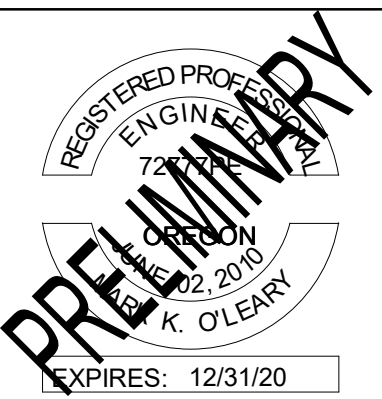


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PROJECT  
**Beaver Acres ES Seismic Improvements**  
2125 SW 170th Avenue  
Beaverton, OR 97003

PROJECT NO:  
122519

DRAWN BY:  
Author

PROJECT MGR:  
Designer

CHECKED BY:  
Checker

APPROVED BY:  
Approver

SHEET TITLE

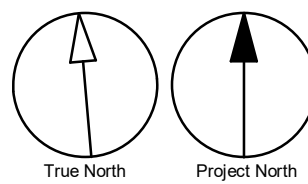
**FLOOR PLAN - SECTOR D - LIGHTING**

SHEET NUMBER

**E101D**

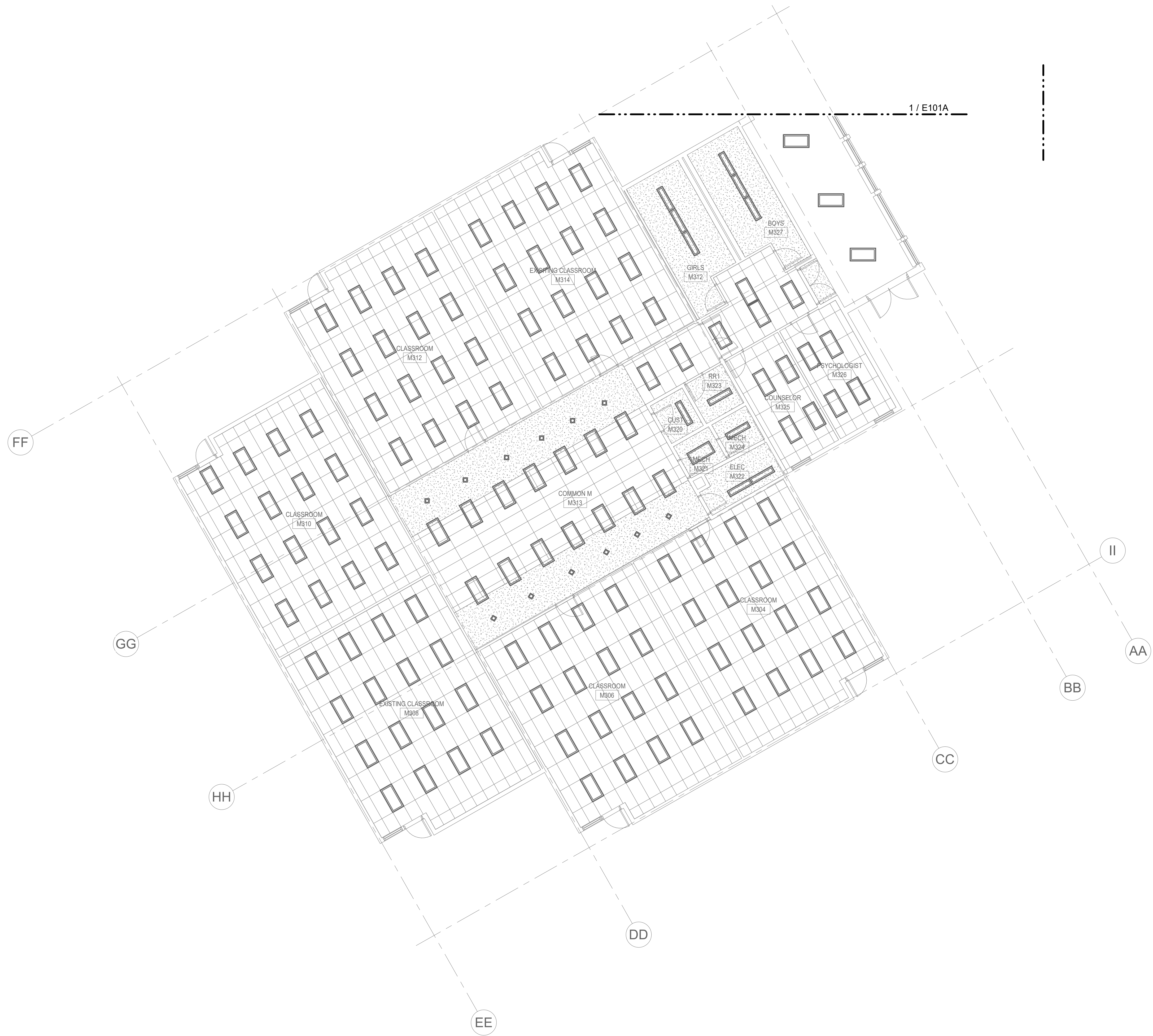
ISSUE

**2**

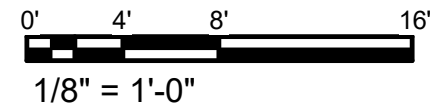


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## 1 FIRST FLOOR PLAN - SECTOR M - LIGHTING



### 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.
- 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.

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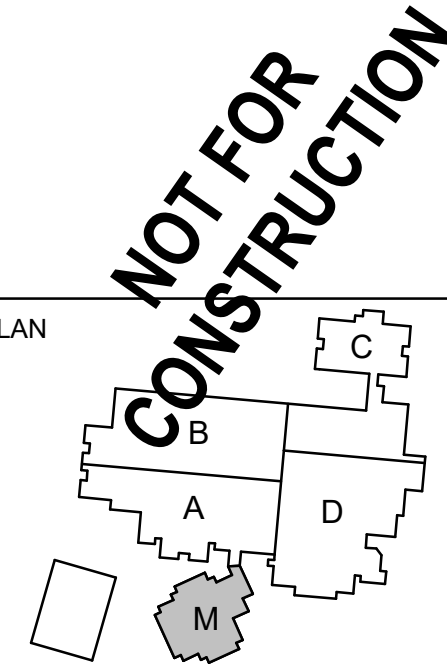


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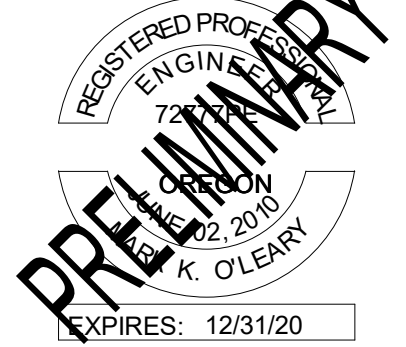


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**PROJECT** 2019-0456  
**CONTACT** Lorena Ruiz  
100 SW Main Street, Suite 1000  
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TEL 503.382.2266  
[www.interfaceengineering.com](http://www.interfaceengineering.com)

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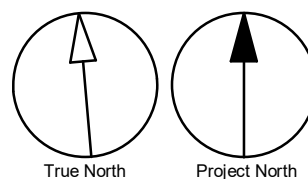
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[ibigroup-usa.com](http://ibigroup-usa.com)

**PROJECT**  
**Beaver Acres ES Seismic Improvements**  
2125 SW 170th Avenue  
Beaverton, OR 97003

**PROJECT NO:** 122519  
**DRAWN BY:** Author  
**PROJECT MGR:** Designer  
**CHECKED BY:** Checker  
**APPROVED BY:** Approver

**SHEET TITLE**  
**FLOOR PLAN - SECTOR M - LIGHTING**

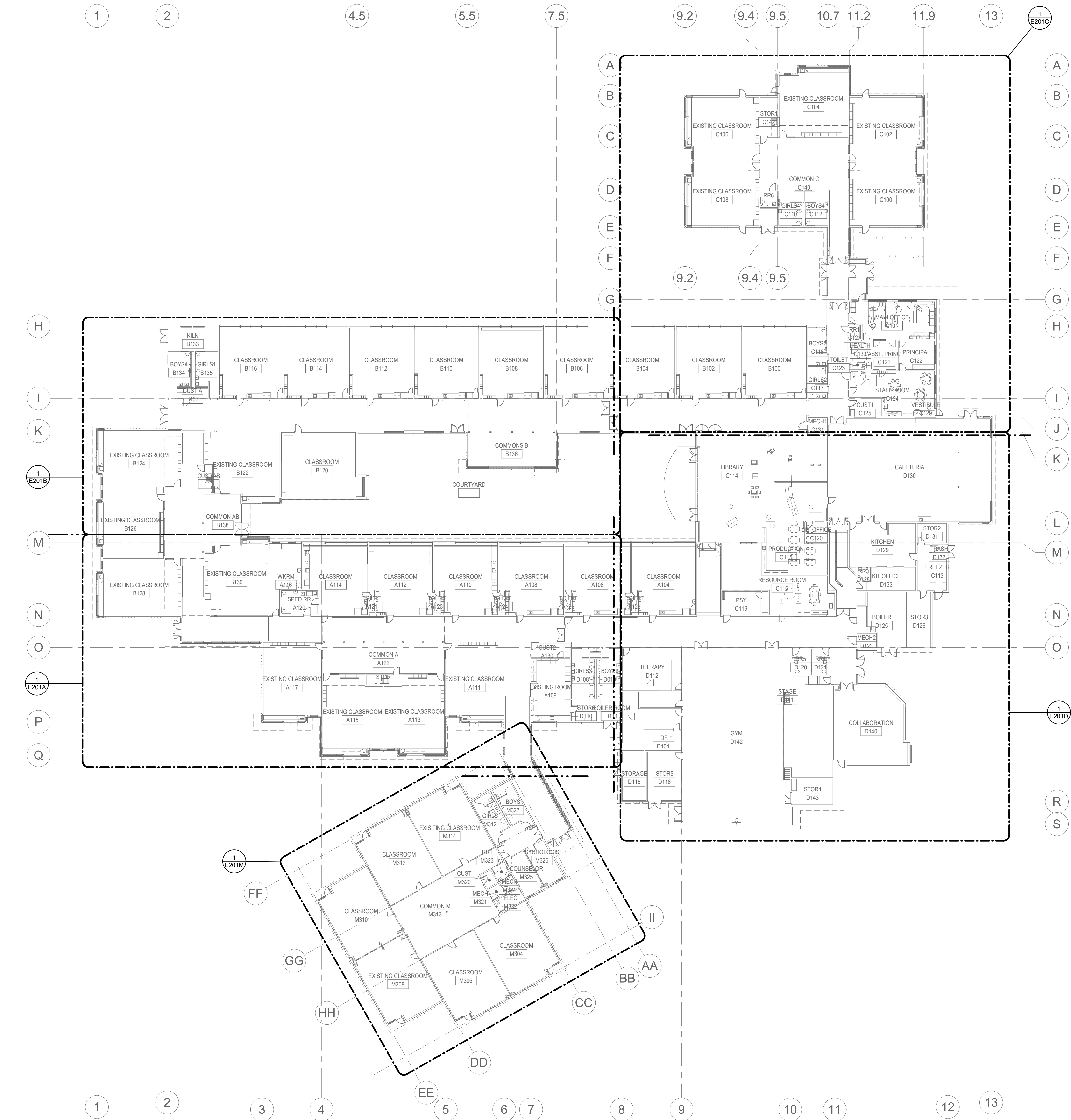
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**ISSUE** 2



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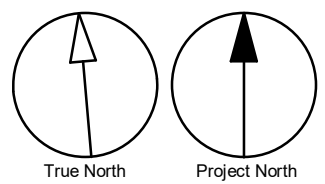


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1 FIRST FLOOR OVERALL PLAN - ELECTRICAL

0' 16' 32' 48'  
3/64" = 1'-0"



CLIENT

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ISSUES

No.	DESCRIPTION	DATE
1	SCHEMATIC DESIGN	10.04.19
2	100% DESIGN DEVELOPMENT	11.01.19

KEYPLAN

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PROJECT

**Beaver Acres ES Seismic Improvements**  
2125 SW 170th Avenue  
Beaverton, OR 97003

PROJECT NO:

122519

DRAWN BY:

Author

CHECKED BY:

Checker

PROJECT MGR:

Designer

APPROVED BY:

Approver

SHEET TITLE

**FIRST FLOOR PLAN OVERALL - ELECTRICAL**

SHEET NUMBER

**E201**

ISSUE

**2**

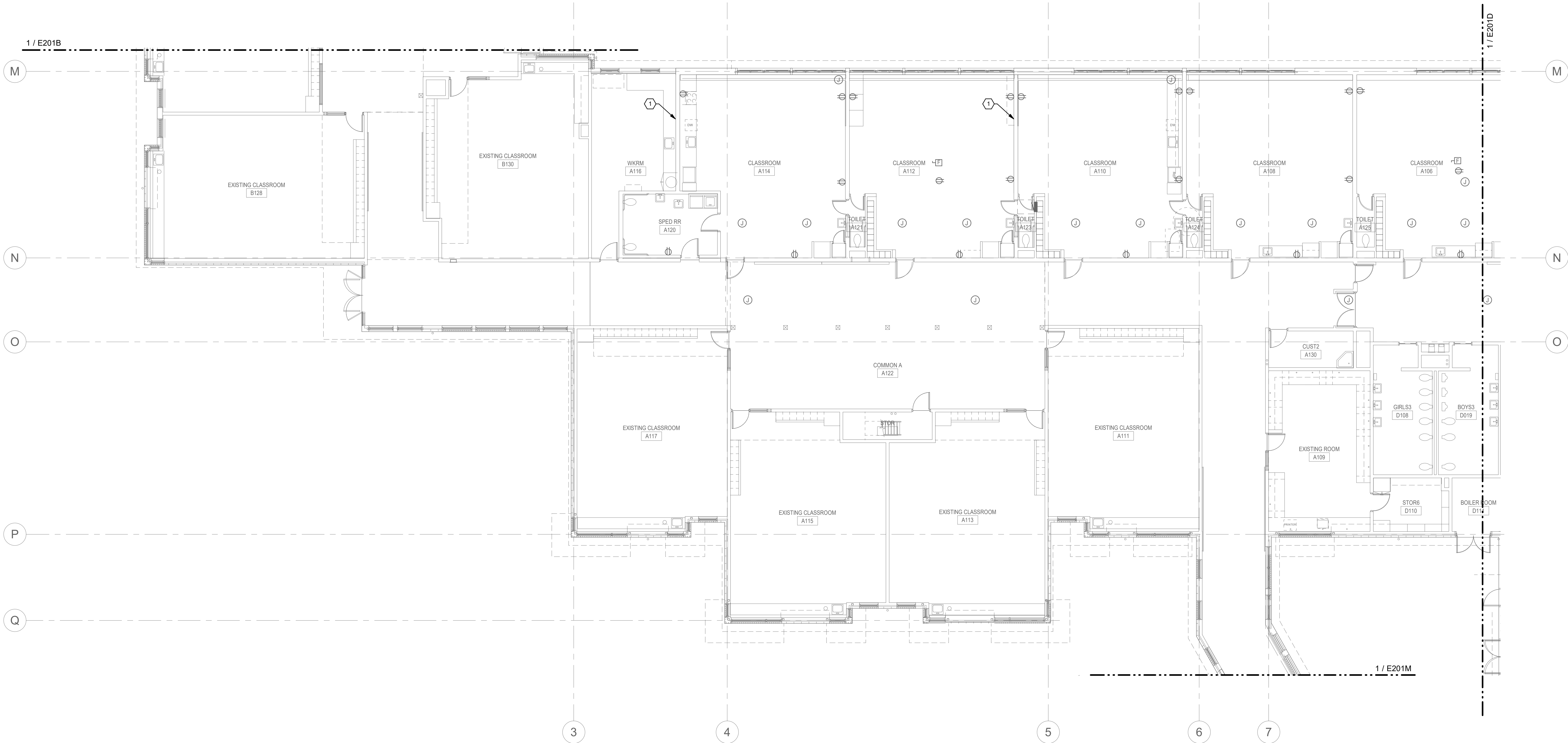
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GENERAL SHEET NOTES

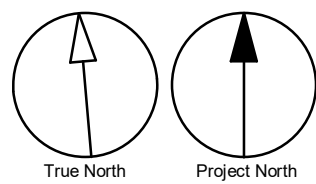
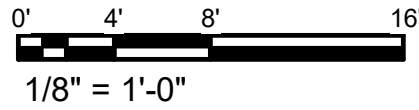
A. PROVIDE SEISMIC BRACING TO STRUCTURE FOR ELECTRICAL EQUIPMENT SUCH AS SWITCHBOARDS, PANELBOARDS, CONDUITS, RACEWAYS, CABLE TRAYS, LUMINAIRES, GENERATORS, BRACING TO LIMIT MOVEMENT OF EQUIPMENT IN AN EVENT OF A NATURAL DISASTER, BASED ON THE SEISMIC CATEGORY AS DEEMED BY THE LOCATION AND STRUCTURAL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

SHEET KEYNOTES

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.



1 FIRST FLOOR PLAN - SECTOR A - ELECTRICAL



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2	100% DESIGN DEVELOPMENT	11.01.19

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PROJECT

**Beaver Acres ES Seismic Improvements**  
2125 SW 170th Avenue  
Beaverton, OR 97003

PROJECT NO:

122519

DRAWN BY:

Author

CHECKED BY:

Checker

PROJECT MGR:

Designer

APPROVED BY:

Approver

SHEET TITLE

**FLOOR PLAN - SECTOR A - ELECTRICAL**

SHEET NUMBER

**E201A**

ISSUE

**2**





## 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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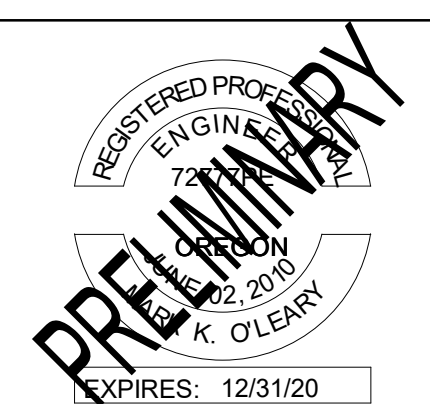
KEYPLAN

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**PROJECT** 2019-0496  
**CONTACT** Lorena Ruiz  
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PROJECT  
**Beaver Acres ES Seismic  
Improvements**  
2125 SW 170th Avenue  
Beaverton, OR 97003

PROJECT NO.	122519
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DRAWN BY:  
Author

CHECKED BY:  
Checker

PROJECT MGR: <b>Designer</b>	APPROVED BY: <b>Approver</b>
---------------------------------	---------------------------------

SHEET TITLE  
**FLOOR PLAN - SECTOR C  
ELECTRICAL**

SHEET NUMBER  
**E201C**

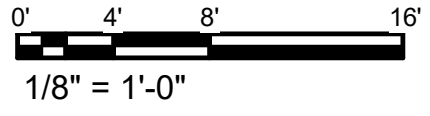
ISSUE  
2



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1 FIRST FLOOR PLAN - SECTOR D - ELECTRICAL



### 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.

### SHEET KEYNOTES

- 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.

CLIENT  
Beaverton School District

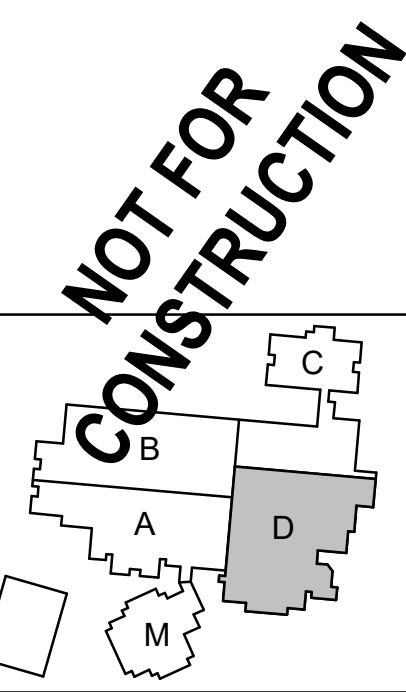


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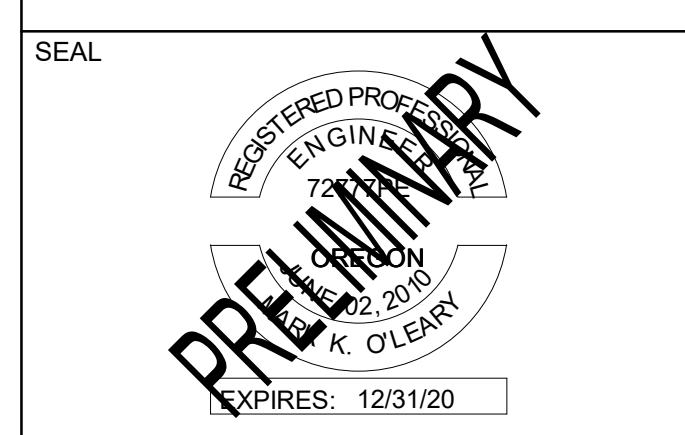
ISSUES		
No.	DESCRIPTION	DATE
1	SCHEMATIC DESIGN	10.04.19
2	100% DESIGN DEVELOPMENT	11.01.19



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**PROJECT** 2019-0456  
**CONTACT** Lorena Ruiz  
100 SW Main Street, Suite 1000  
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TEL 503.382.2266  
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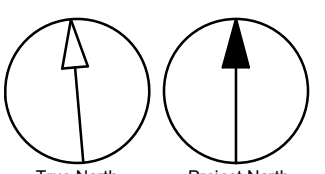
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**PROJECT**  
**Beaver Acres ES Seismic Improvements**  
2125 SW 170th Avenue  
Beaverton, OR 97003

**PROJECT NO:** 122519  
**DRAWN BY:** Author  
**PROJECT MGR:** Designer  
**CHECKED BY:** Checker  
**APPROVED BY:** Approver

**SHEET TITLE**  
**FLOOR PLAN - SECTOR D - ELECTRICAL**

**SHEET NUMBER** E201D  
**ISSUE** 2



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1 FIRST FLOOR PLAN - SECTOR M - ELECTRICAL

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

### 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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Beaverton School District

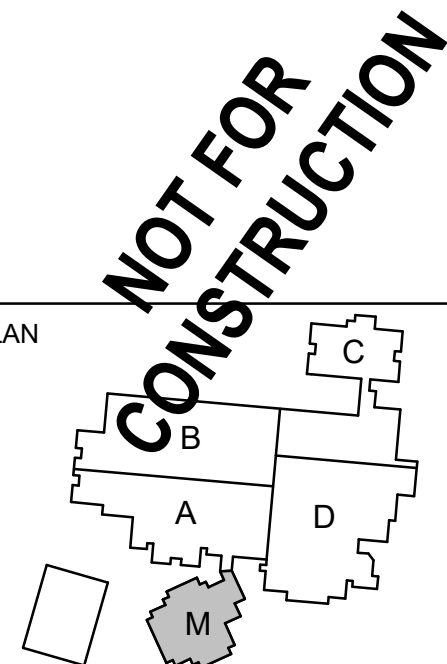


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**CONTACT** Lorena Ruiz  
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**PROJECT**  
**Beaver Acres ES Seismic Improvements**  
2125 SW 170th Avenue  
Beaverton, OR 97003

**PROJECT NO:**  
122519

**DRAWN BY:**  
Author

**CHECKED BY:**  
Checker

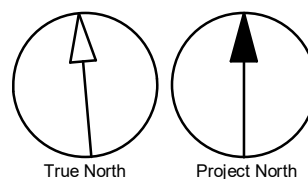
**PROJECT MGR:**  
Designer

**APPROVED BY:**  
Approver

**SHEET TITLE**  
**FLOOR PLAN - SECTOR M - ELECTRICAL**

**SHEET NUMBER**  
**E201M**

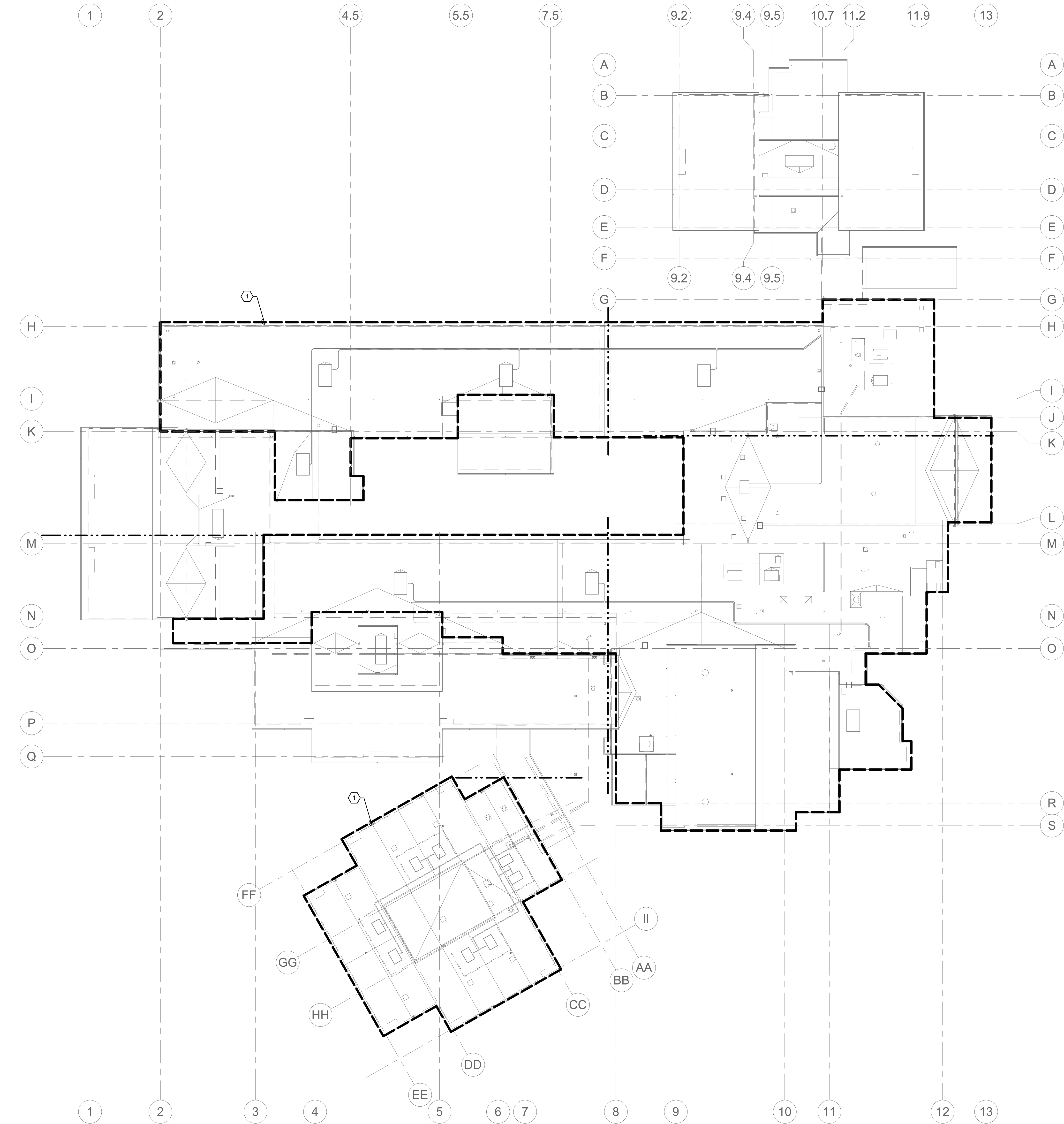
**ISSUE**  
**2**



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1/16



10/30/2019 5:05:55 PM



1 ROOF OVERALL PLAN - ELECTRICAL

0' 16' 32' 48'  
3/64" = 1'-0"

## SHEET KEYNOTES

- 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.

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Beaverton School District

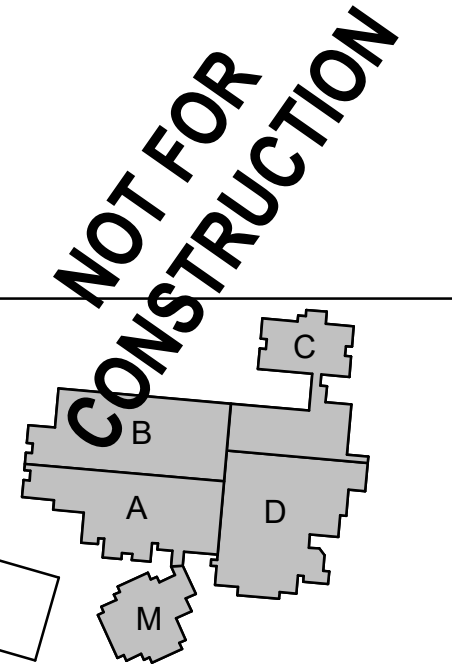


16550 SW Merlo Road Beaverton, OR 97003

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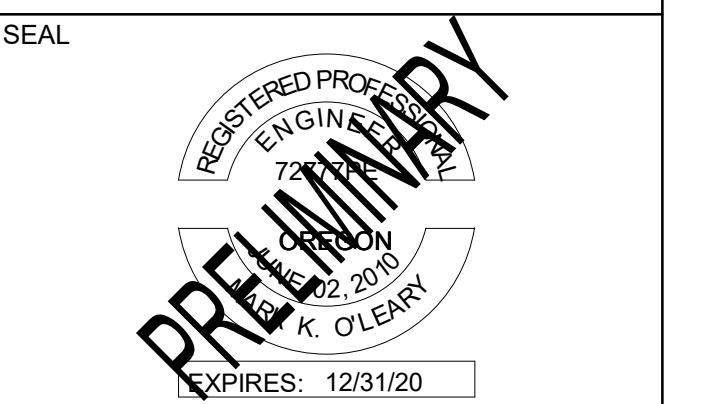
ISSUES		DATE
No.	DESCRIPTION	
1	SCHEMATIC DESIGN	10.04.19
2	100% DESIGN DEVELOPMENT	11.01.19



CONSULTANTS



PROJECT 2019-0496  
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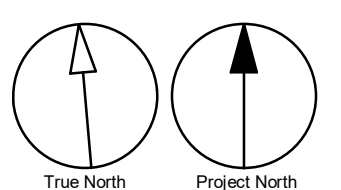
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**PROJECT**  
**Beaver Acres ES Seismic Improvements**  
2125 SW 170th Avenue  
Beaverton, OR 97003

**PROJECT NO:**  
122519  
**DRAWN BY:**  
Author  
**CHECKED BY:**  
Checker  
**PROJECT MGR:**  
Designer  
**APPROVED BY:**  
Approver

**SHEET TITLE**  
**ROOF PLAN - ELECTRICAL**

**SHEET NUMBER**  
**E301**  
**ISSUE**  
**2**



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1/1