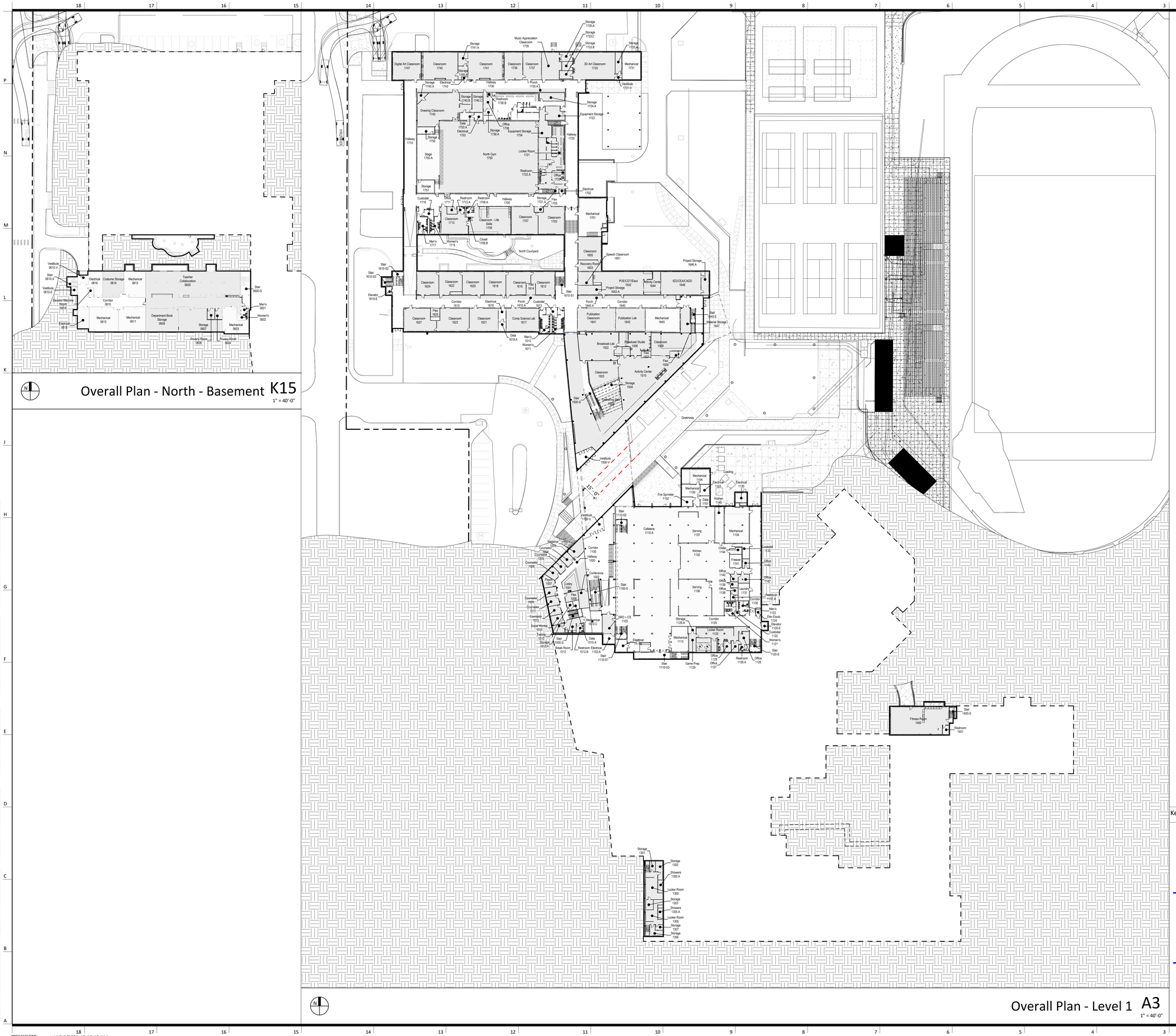

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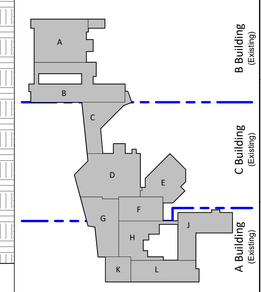
Key Plan:



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STATE OF MISSOURI TODD AULT NUMBER A-2005029072 ARCHITECT

Architectural Corporation
Missouri License No.: 2018022991
Todd Ault — Date: 11/3/2020
Architect — License No. A-2005029072

REVISIONS

Number	DESCRIPTION	DATE

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/14/2021

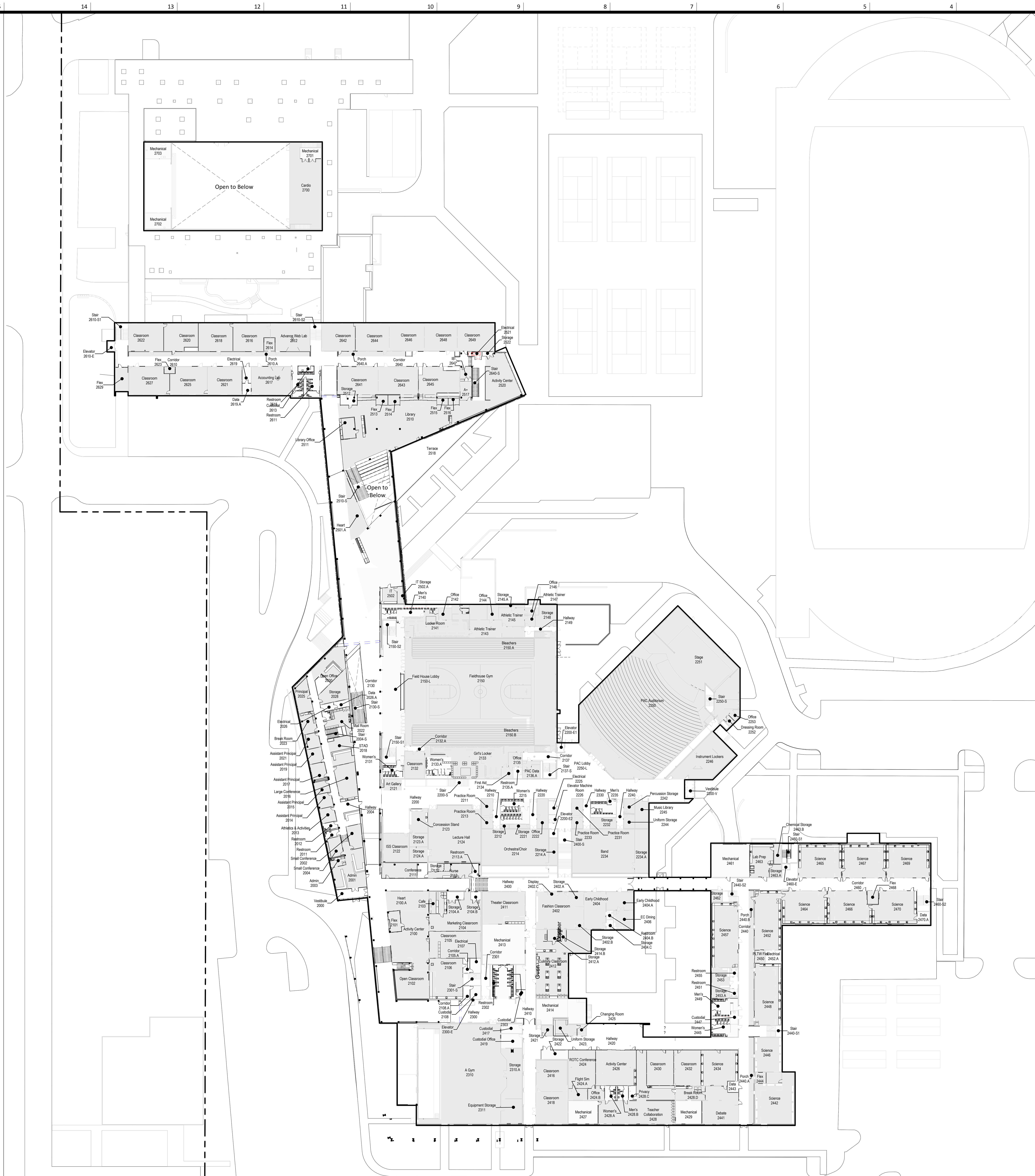
PROJECT NO: 0119-0100
DATE: November 3, 2020

Package 2

Overall Floor Plan - Level 1

A101

FINAL DEVELOPMENT SET



Overall Plan - Level 2 A3
1" = 40'-0"

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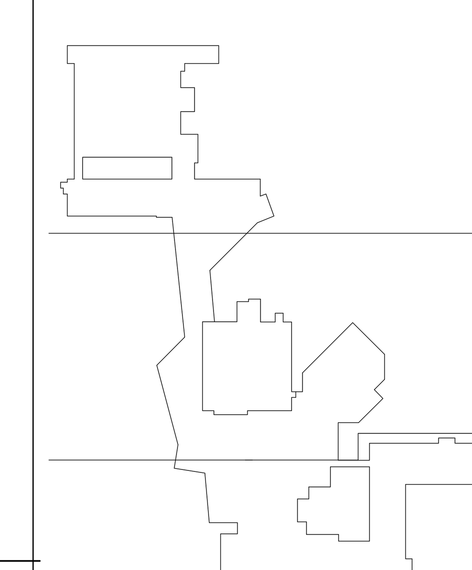
Key Plan:



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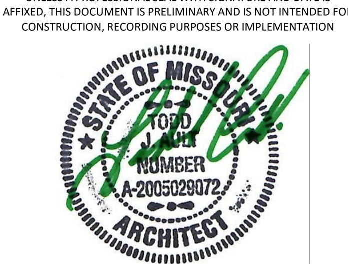

Architectural Corporation
Missouri License No.: 2018022991
Todd Ault Date: 11/3/2020
Architect License No. A-2005029072

REVISIONS

Number	DESCRIPTION	DATE

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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/14/2021

PROJECT NO: 0119-0100
DATE: November 3, 2020

Package 2

Overall Floor Plan - Level 2

A102

FINAL DEVELOPMENT SET

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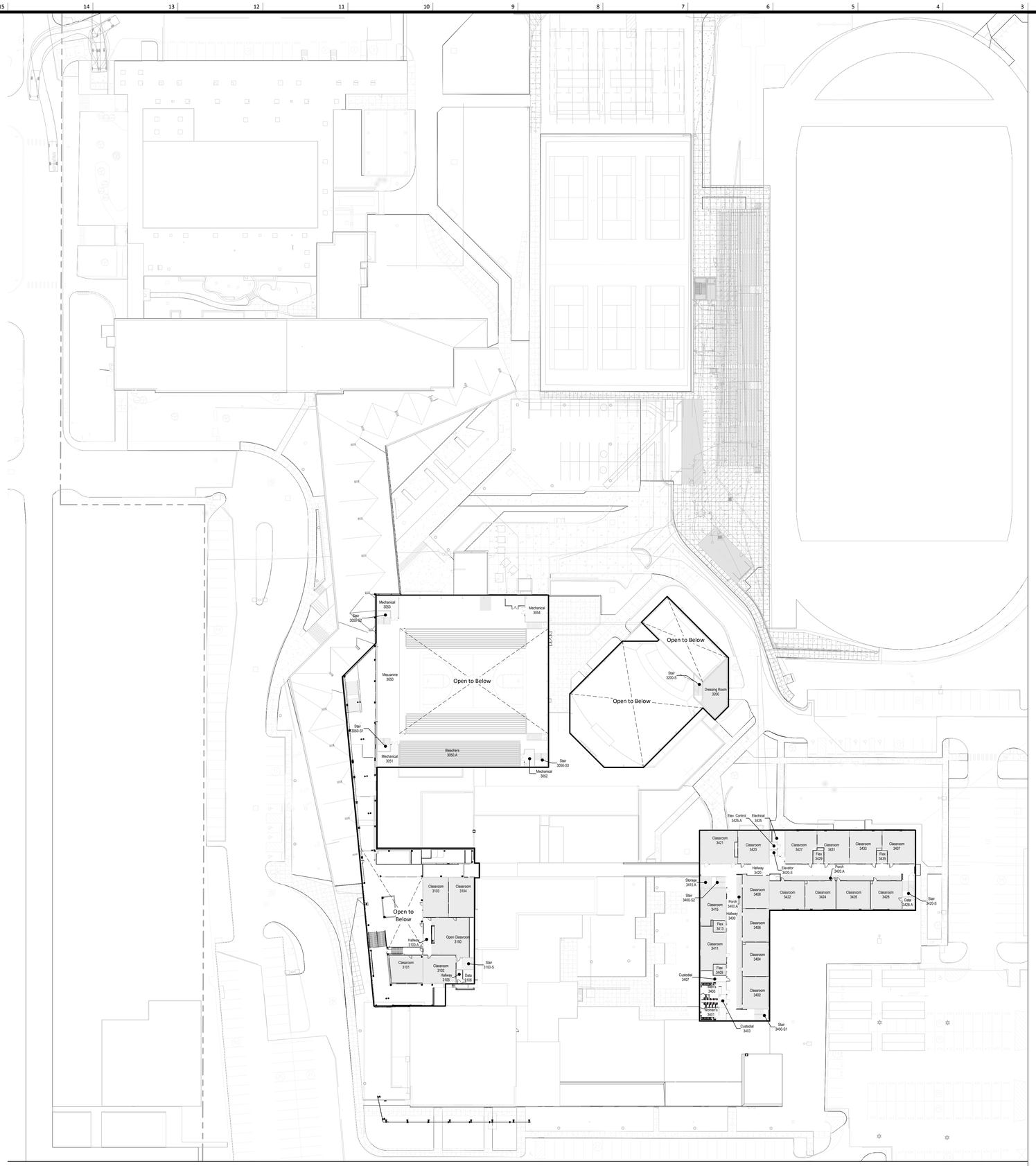

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Overall Plan - Level 3 A3
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STATE OF MISSOURI TODD AULT NUMBER A-2005029072 REGISTERED ARCHITECT

Architectural Corporation
Missouri License No.: 2018022991
Todd Ault Date: 11/3/2020
Architect License No. A-2005029072

REVISIONS

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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/14/2021

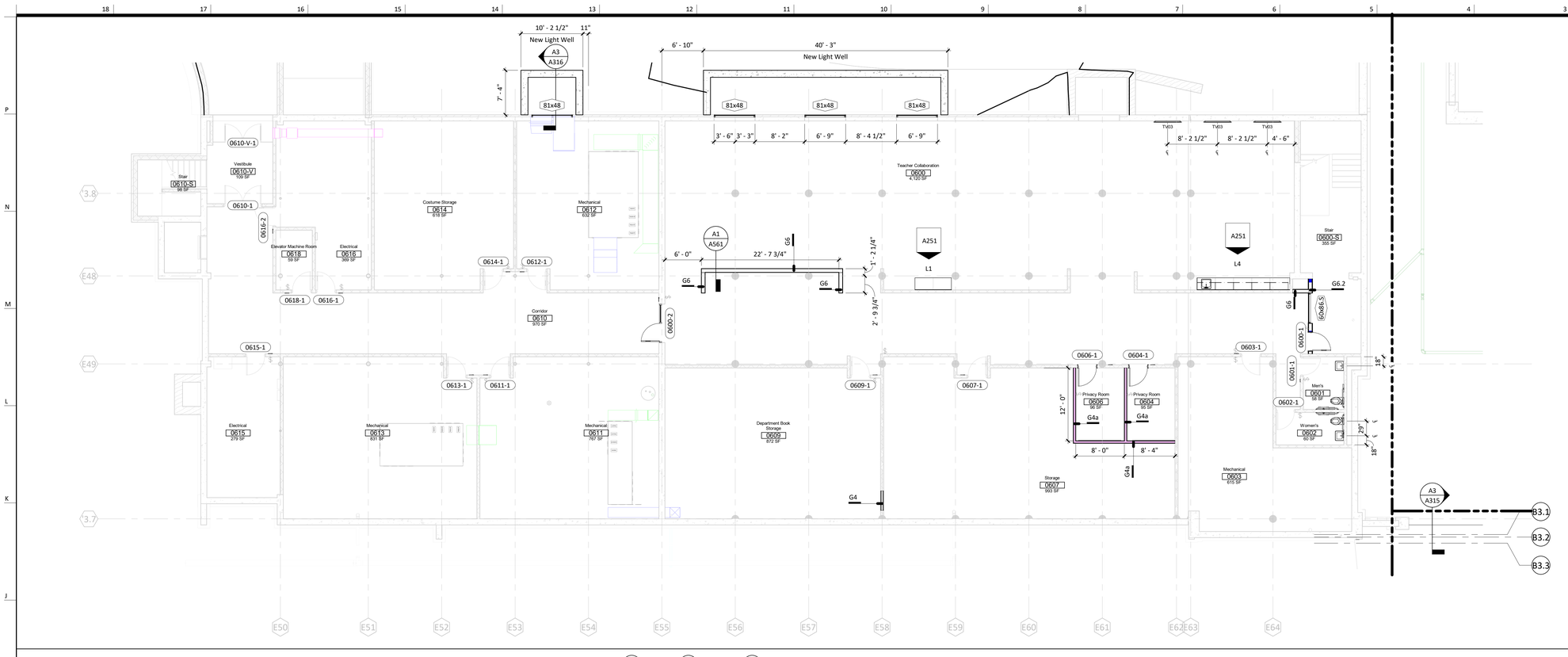
PROJECT NO: 0119-0100
DATE: November 3, 2020

Package 2

Overall Floor Plan - Level 3

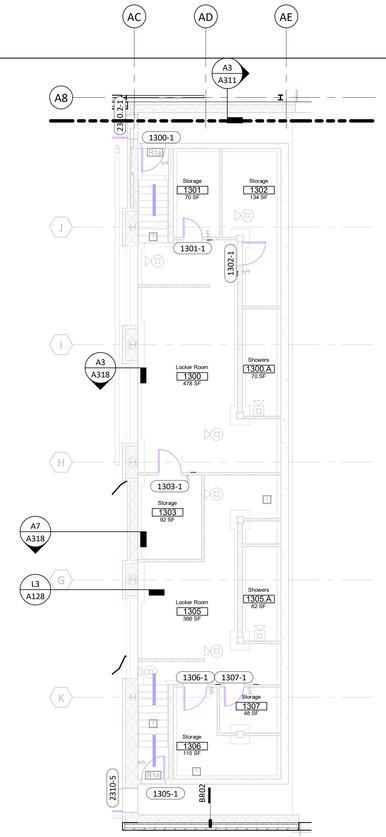
A103

FINAL DEVELOPMENT SET



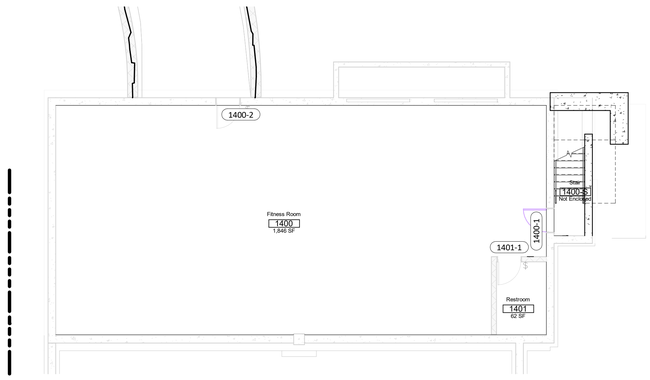
Zone B - Basement H3

1/8" = 1'-0"



Zone K - Locker A10

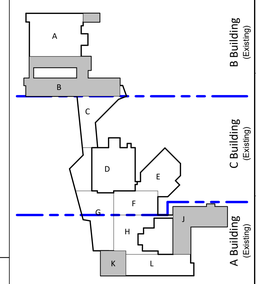
1/8" = 1'-0"



Zone J - Basement A3

1/8" = 1'-0"

Key Plan:



General Notes (Floor Plans):

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STATE OF MISSOURI
TODD AULT
NUMBER A-2005029072
ARCHITECT

Architectural Corporation
Missouri License No.: 2018022991
Todd Ault — Date: 11/3/2020
Architect — License No. A-2005029072

REVISIONS

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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

01/14/2021

PROJECT NO: 0119-0100
DATE: November 3, 2020

Package 2

Floor Plan - Basements

A110

FINAL DEVELOPMENT SET

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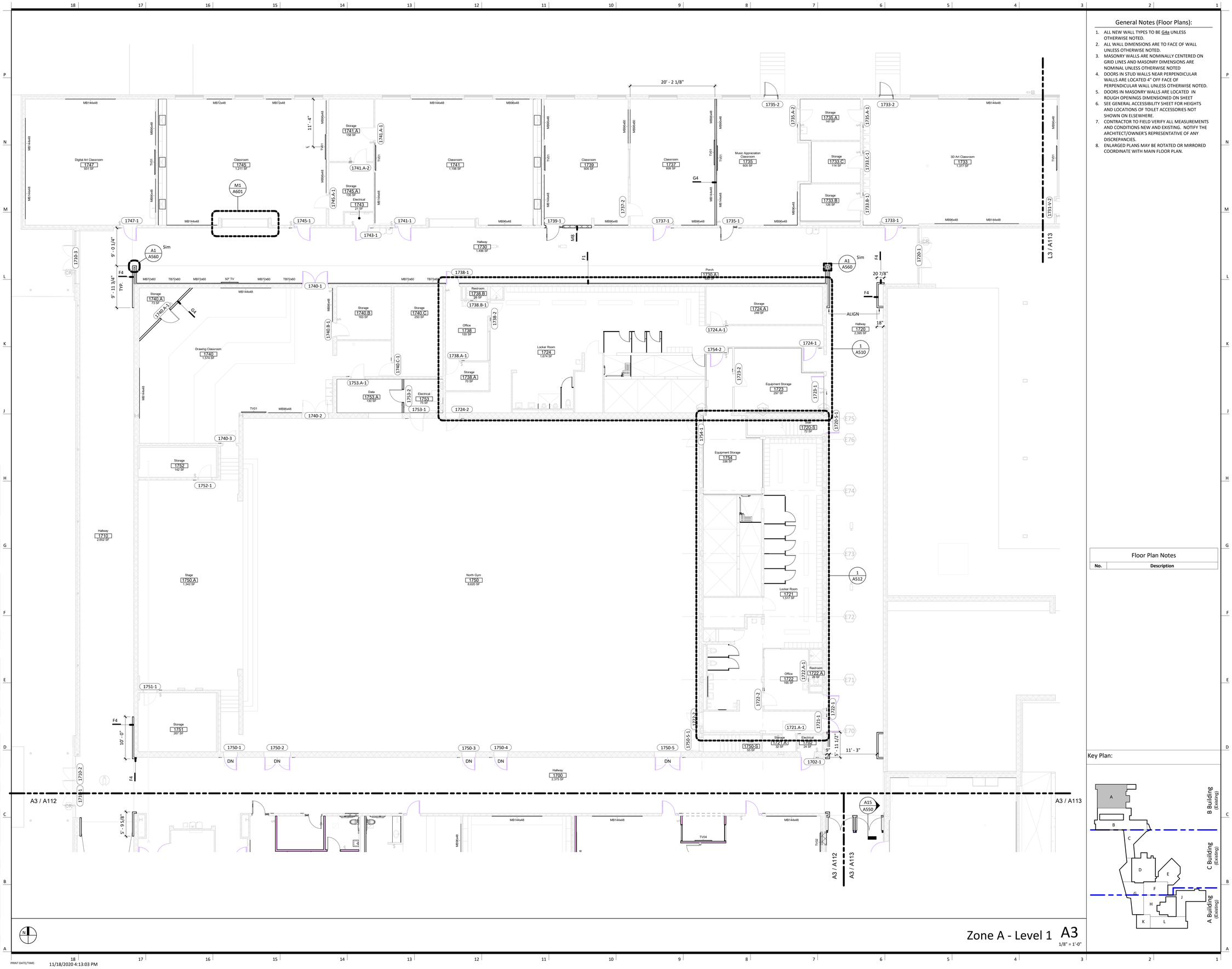

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Floor Plan Notes

No.	Description

Key Plan:

Zone A - Level 1 **A3**
1/8" = 1'-0"

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STATE OF MISSOURI · TODD AULT · NUMBER A-2005029072 · ARCHITECT

Architectural Corporation
Missouri License No.: 2018022991
Todd Ault — Date: 11/3/2020
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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/14/2021

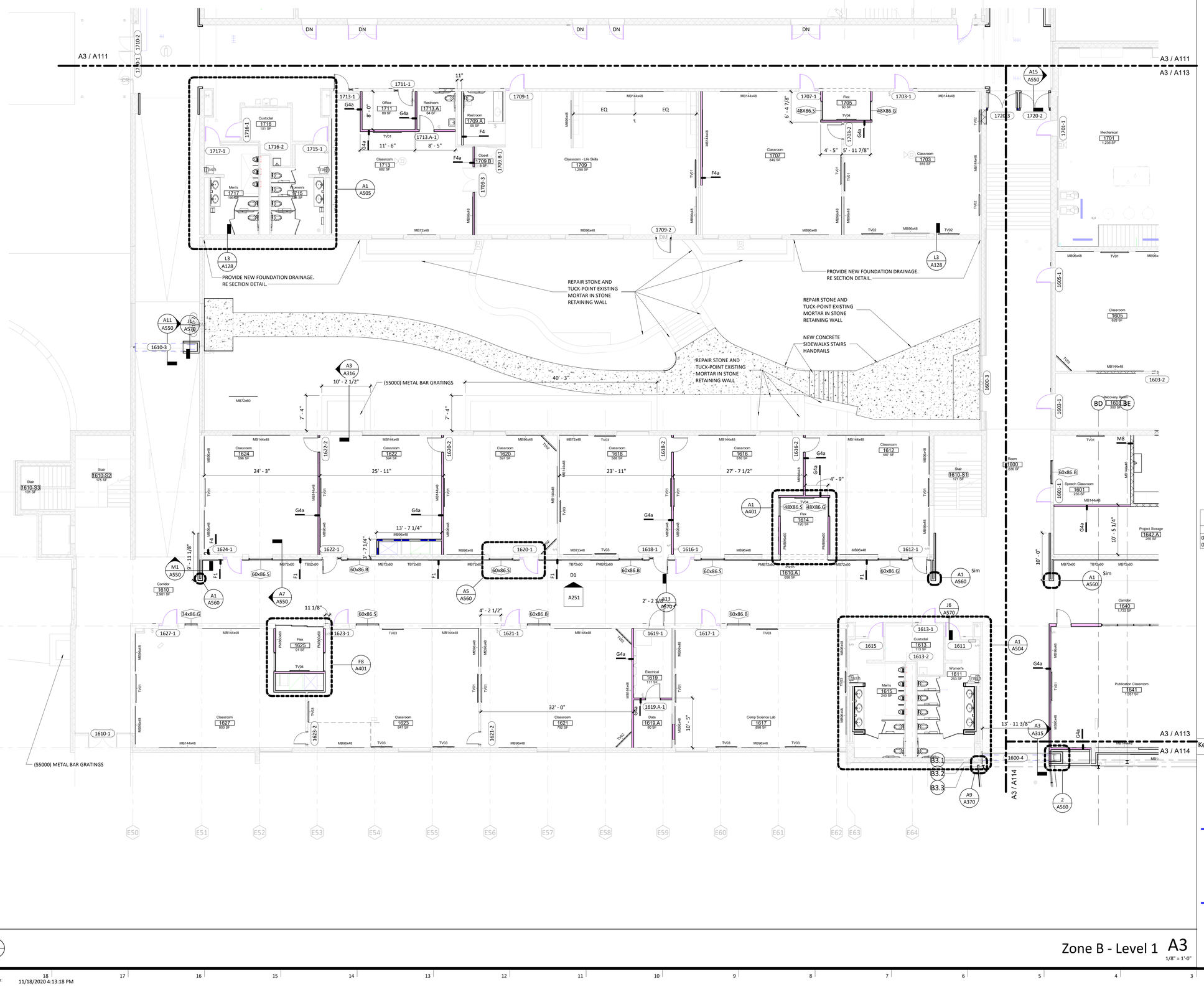
PROJECT NO: 0119-0100
DATE: November 3, 2020

Package 2

Floor Plan - Zone A - Level 1

A111

FINAL DEVELOPMENT SET



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Floor Plan Notes

No.	Description
05 50 00.J	(55000) METAL BAR GRATINGS

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Architectural Corporation
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Todd Ault Date: 11/3/2020
Architect License No. A-2005029072

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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/14/2021

PROJECT NO: 0119-0100
DATE: November 3, 2020

Package 2

Floor Plan - Zone B - Level 1

A112

FINAL DEVELOPMENT SET

Zone B - Level 1 A3
1/8" = 1'-0"

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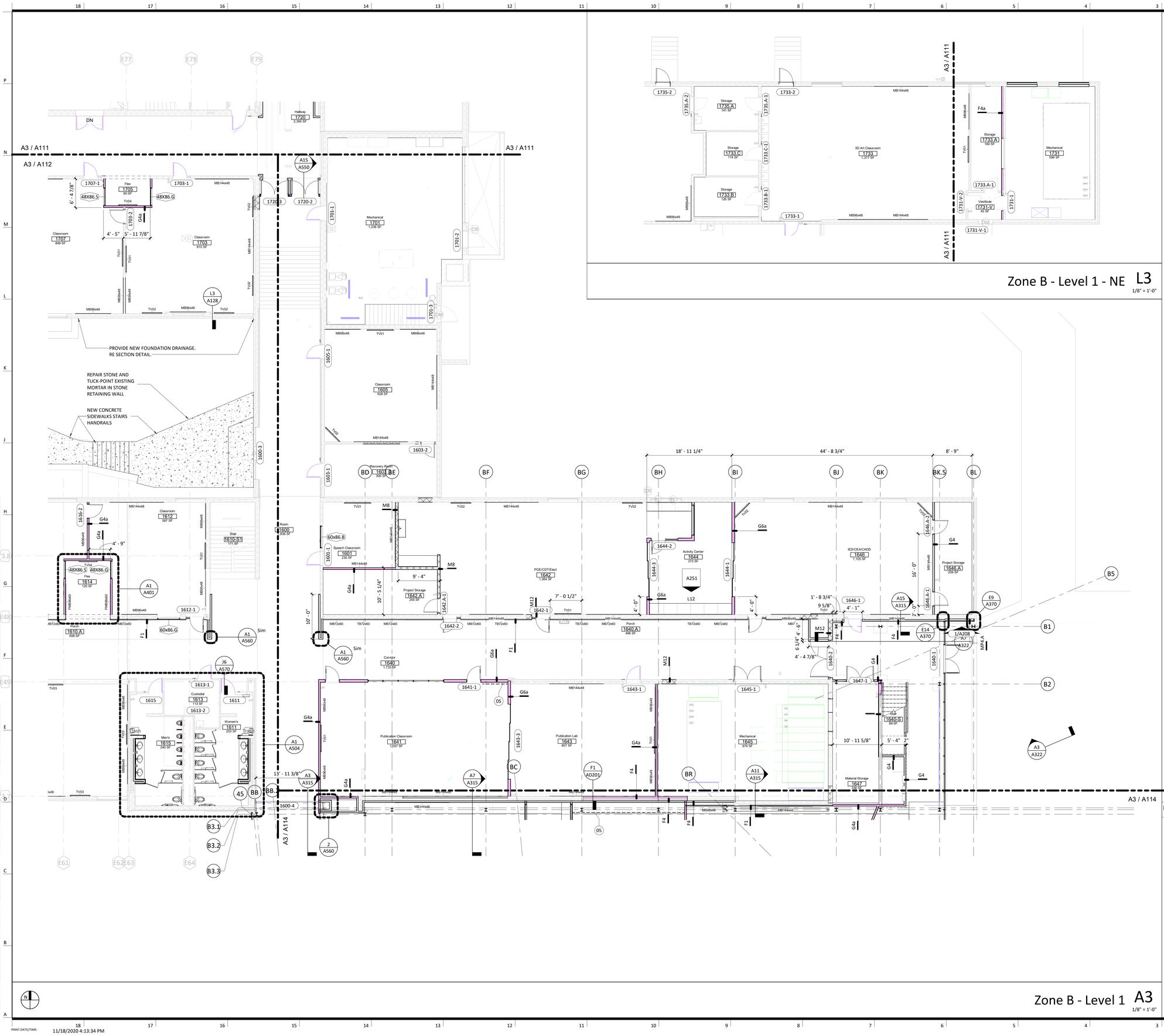

Zone B - Level 1 - NE **L3**
1/8" = 1'-0"

Zone B - Level 1 **A3**
1/8" = 1'-0"

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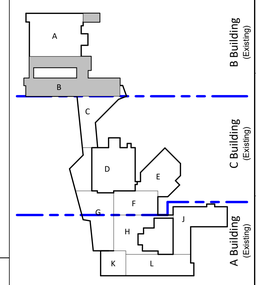
Floor Plan Notes

No.	Description
05	CURTAIN AND CURTAIN ROD

Key Plan:



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LEE'S SUMMIT, MISSOURI
01/14/2021

PROJECT NO: 0119-0100
DATE: November 3, 2020

Package 2

Floor Plan - Zone B - Level 1

A113

FINAL DEVELOPMENT SET

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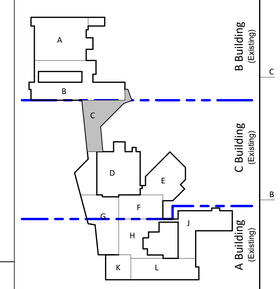
Floor Plan Notes

No.	Description
04	CYCLORAMA SYSTEM
05	CURTAIN AND CURTAIN ROD

Key Plan:



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STATE OF MISSOURI TODD AULT NUMBER A-2005029072 REGISTERED ARCHITECT

Architectural Corporation
Missouri License No.: 2018022991
Todd Ault — Date: 11/3/2020
Architect — License No. A-2005029072

REVISIONS

Number	DESCRIPTION	DATE

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

01/14/2021

PROJECT NO: 0119-0100
DATE: November 3, 2020

Package 2

Floor Plan - Zone C - Level 1

A114

FINAL DEVELOPMENT SET

Zone C - Level 1 A3
1/8" = 1'-0"

PRINT DATE/TIME: 11/18/2020 4:13:48 PM

General Notes (Floor Plans):

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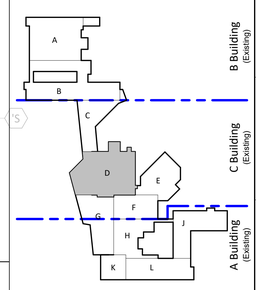
Floor Plan Notes

No.	Description

Key Plan:



Alternate 3

Paint all walls and exposed concrete structure above. color to match existing grey wall color in serving rooms.

Replace door leafs

New prefabricated insulated chiller and freezer walls over new insulated floor. remove existing slab to allow a new concrete slab poured at lower elevation for level access on insulated floor.

Slide down existing dish washer bay. current plumbing is exposed and runs along the top of the slab.

remove existing sink.

New flooring in hatched area, see finish floor plan

new stainless steel 2' wide 3 compartment sink and handsink. no greese interceptor (this will need confirmed with the city).

remove existing sink.

Replace door leafs

Verify with Manuf.

Zone D - Level 1 A3 1/8" = 1'-0"

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LEE'S SUMMIT, MISSOURI

01/14/2021

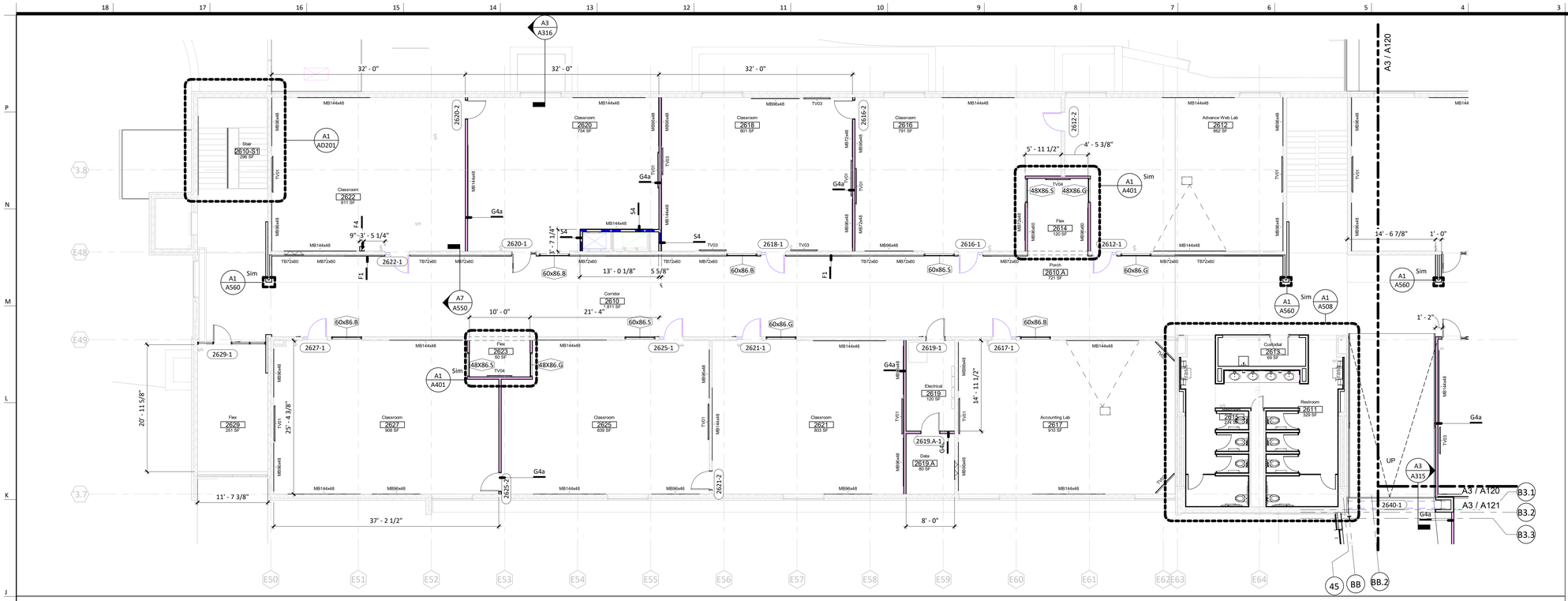
PROJECT NO: 0119-0100
DATE: November 3, 2020

Package 2

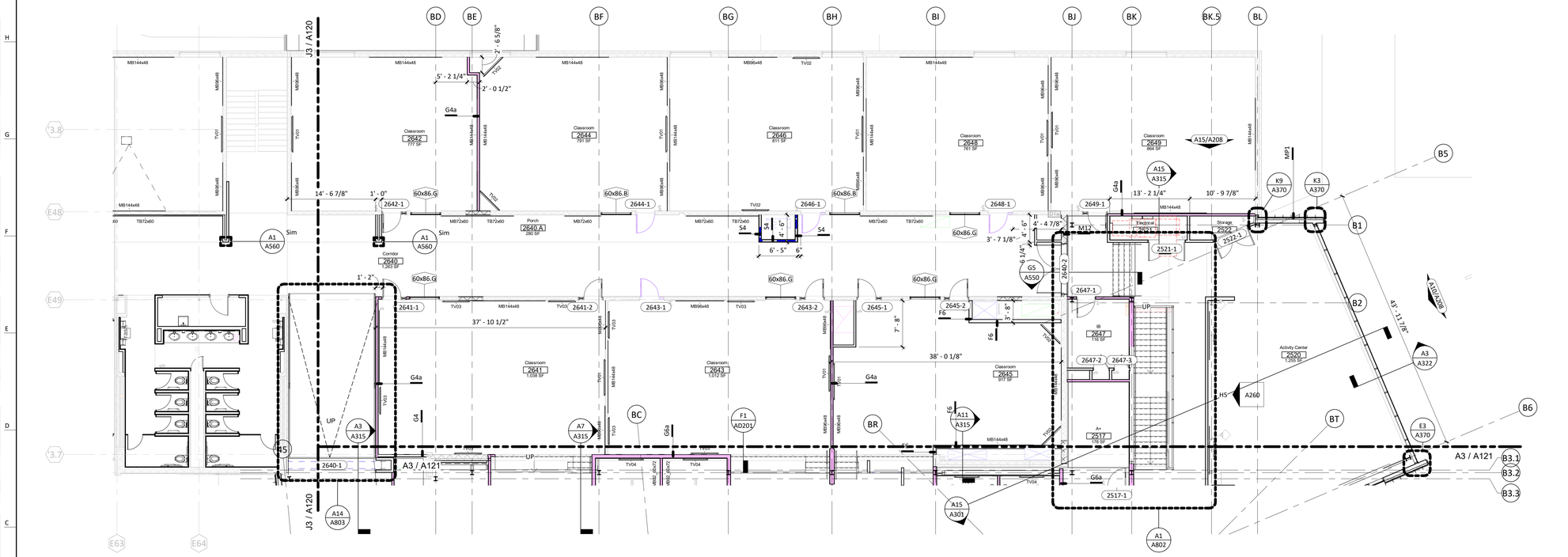
Floor Plan - Zone D - Level 1

A115

FINAL DEVELOPMENT SET



Zone B - Level 2 - West J3
1/8" = 1'-0"



Zone B - Level 2 - East A3
1/8" = 1'-0"

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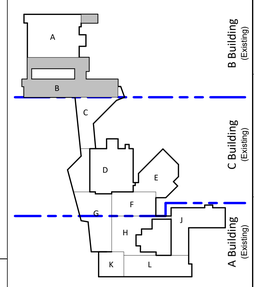
Floor Plan Notes

No.	Description

Key Plan:



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STATE OF MISSOURI
TODD AULT
NUMBER A-2005029072
ARCHITECT

Architectural Corporation
Missouri License No.: 2018022991
Todd Ault — Date: 11/3/2020
Architect — License No. A-2005029072

REVISIONS

Number	DESCRIPTION	DATE

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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/14/2021

PROJECT NO: 0119-0100
DATE: November 3, 2020

Package 2

Floor Plan - Zone B - Level 2

A120

FINAL DEVELOPMENT SET

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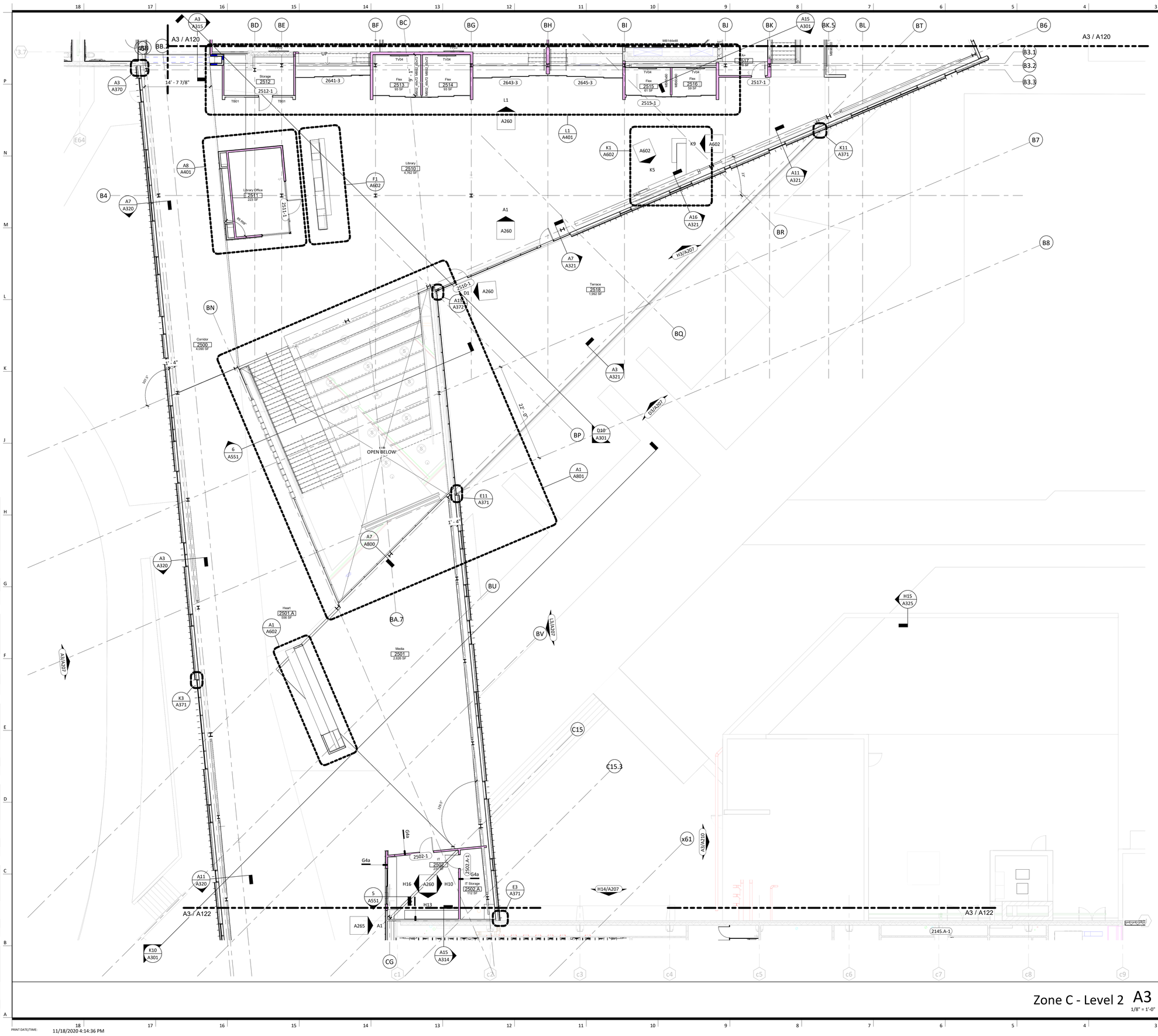

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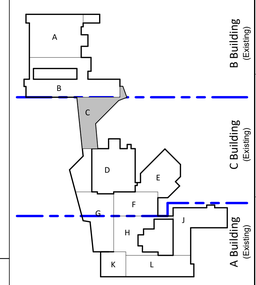
Floor Plan Notes

No.	Description

Key Plan:



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Todd Auit — Date: 11/3/2020
Architect — License No. A-2005028072

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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

01/14/2021

PROJECT NO: 0119-0100
DATE: November 3, 2020

Package 2

Floor Plan - Zone C - Level 2

A121

FINAL DEVELOPMENT SET

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Floor Plan Notes

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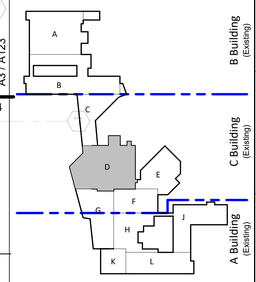

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STATE OF MISSOURI
TODD
AULT
NUMBER
A-2005029072
REGISTERED
ARCHITECT

Architectural Corporation
Missouri License No.: 2018022991
Todd Ault — Date: 11/3/2020
Architect — License No. A-2005029072

REVISIONS

Number	DESCRIPTION	DATE

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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

01/14/2021

PROJECT NO: 0119-0100
DATE: November 3, 2020

Package 2

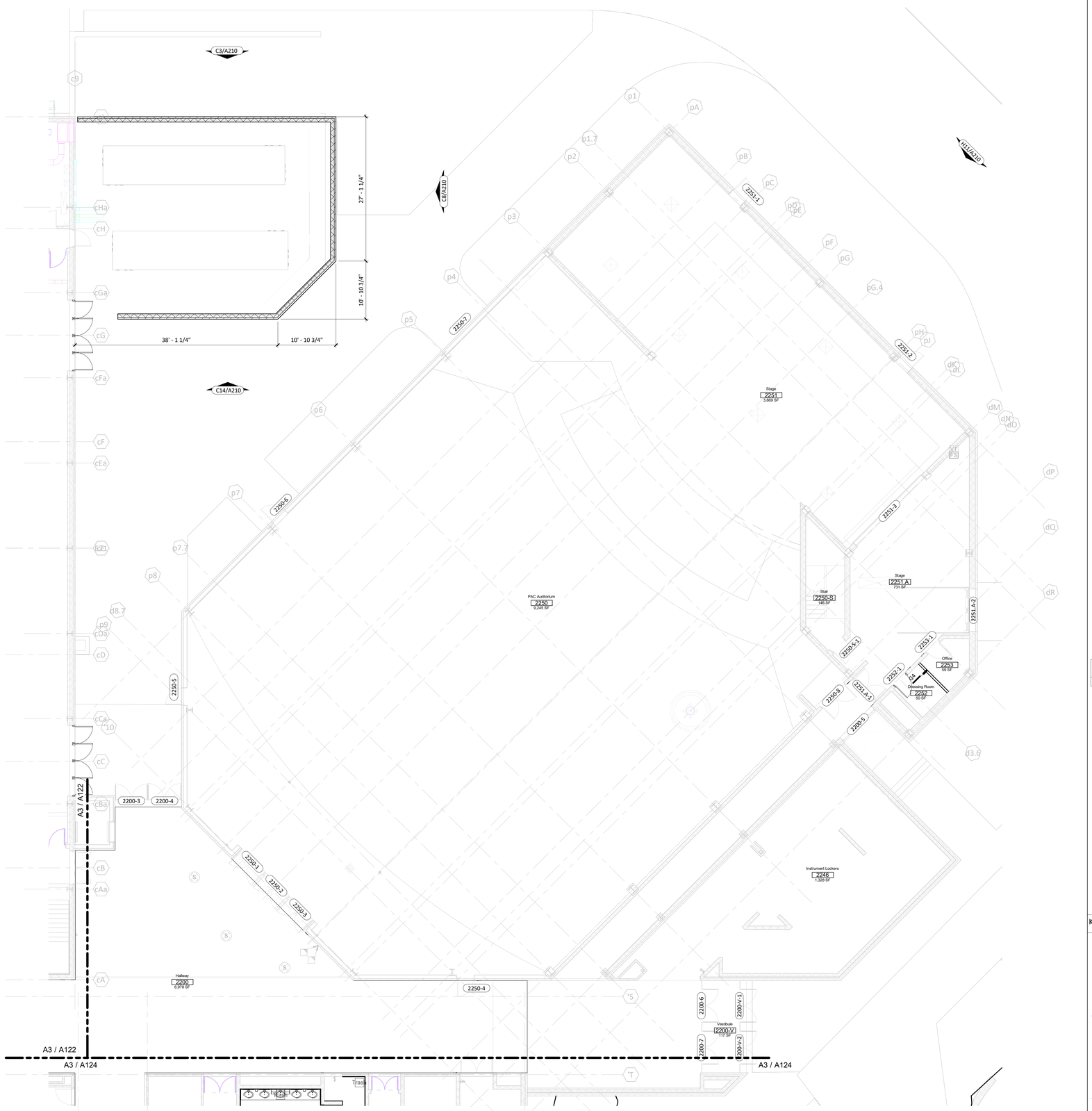
Floor Plan - Zone D - Level 2

A122

FINAL DEVELOPMENT SET

Zone D - Level 2 A3
1/8" = 1'-0"

PRINT DATE/TIME: 11/18/2020 4:14:55 PM



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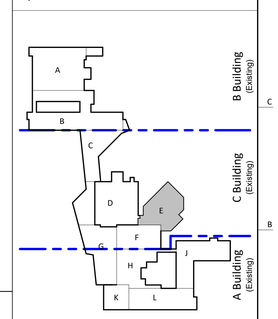
Floor Plan Notes

No.	Description

Key Plan:



Zone E - Level 2 A3
1/8" = 1'-0"

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STATE OF MISSOURI
TODD A. AULT
NUMBER A-2005029072
ARCHITECT

Architectural Corporation
Missouri License No.- 2018022991
Todd Ault — Date: 11/3/2020
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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/14/2021

PROJECT NO: 0119-0100
DATE: November 3, 2020

Package 2

Floor Plan - Zone E - Level 2

A123

FINAL DEVELOPMENT SET

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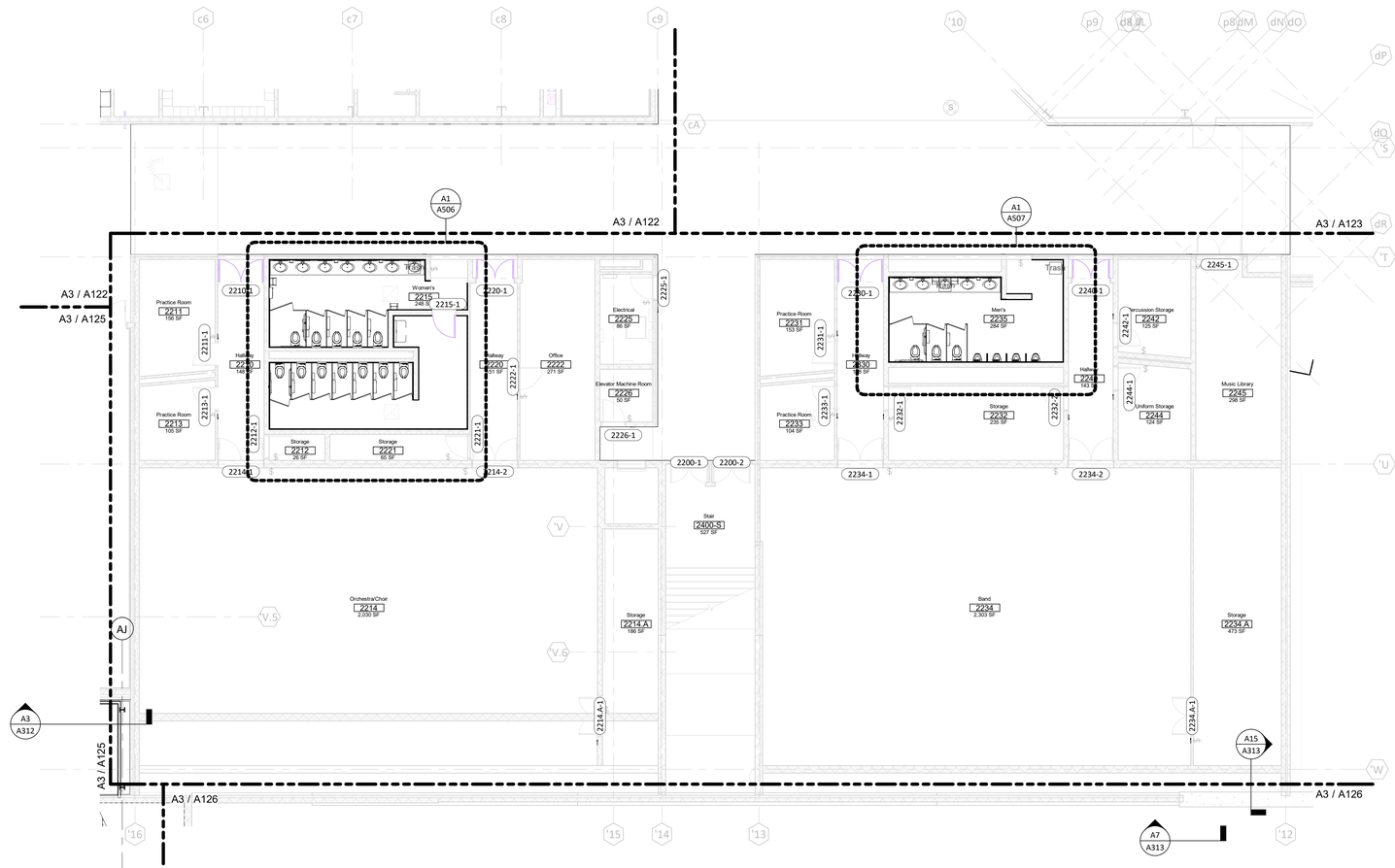

Floor Plan Notes

No.	Description

Key Plan:

Zone F - Level 2 A3

1/8" = 1'-0"

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STATE OF MISSOURI TODD AUIT NUMBER A-2005029072 ARCHITECT

Architectural Corporation
Missouri License No.: 2018022991
Todd Auit Date: 11/3/2020
Architect License No. A-2005029072

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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

01/14/2021

PROJECT NO: 0119-0100
DATE: November 3, 2020

Package 2

Floor Plan - Zone F - Level 2

A124

FINAL DEVELOPMENT SET

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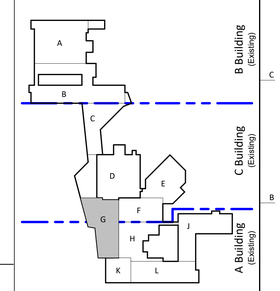
Floor Plan Notes

No.	Description

Key Plan:



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Todd Ault — Date: 11/3/2020
Architect — License No. A-2005029072

REVISIONS

Number	DESCRIPTION	DATE

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/14/2021

PROJECT NO: 0119-0100
DATE: November 3, 2020

Package 2

Floor Plan - Zone G - Level 2

A125

FINAL DEVELOPMENT SET

Zone G - Level 1 A3
1/8" = 1'-0"

PRINT DATE/TIME: 11/18/2020 4:15:33 PM

General Notes (Floor Plans):

1. ALL NEW WALL TYPES TO BE G4a UNLESS OTHERWISE NOTED.
2. ALL WALL DIMENSIONS ARE TO FACE OF WALL UNLESS OTHERWISE NOTED.
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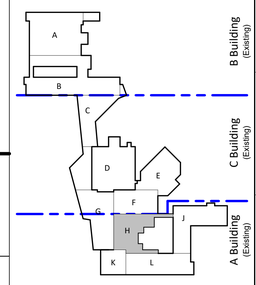
Floor Plan Notes

No.	Description
03	(064023) COAT RODS AND SHELVES, 2 LEVELS

Key Plan:



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architect:
Gould Evans
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STATE OF MISSOURI · TODD AULT · NUMBER A-2005029072 · ARCHITECT

Architectural Corporation
Missouri License No.: 2018022991
Todd Ault — Date: 11/3/2020
Architect — License No. A-2005029072

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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/14/2021

PROJECT NO: 0119-0100
DATE: November 3, 2020

Package 2

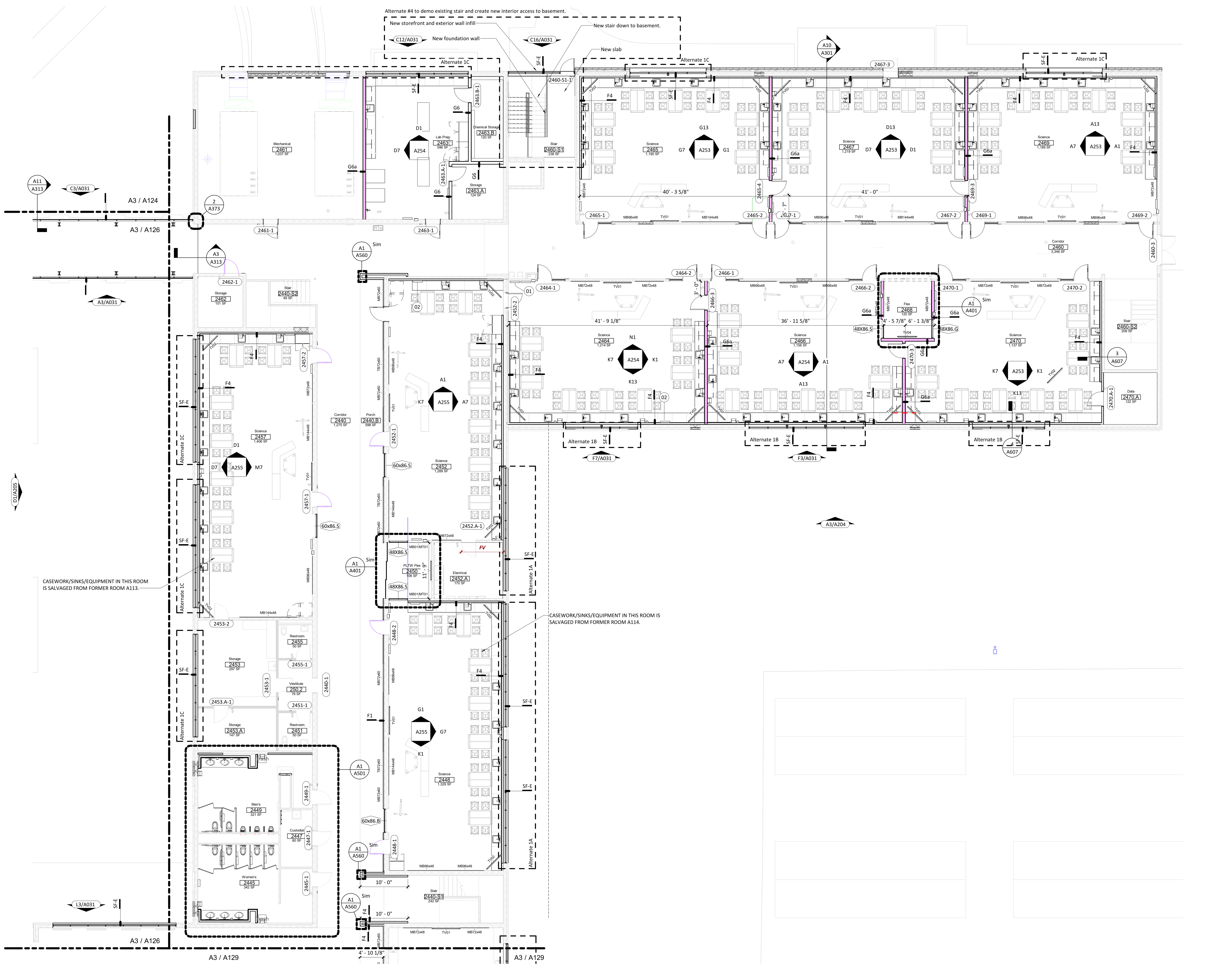
Floor Plan - Zone H - Level 2

A126

FINAL DEVELOPMENT SET

Zone H - Level 2 A3
1/8" = 1'-0"

PRINT DATE/TIME: 11/18/2020 4:15:49 PM



Zone J - Level 2 A3
1/8" = 1'-0"

PRINT DATE/TIME: 11/18/2020 4:16:10 PM

General Notes (Floor Plans):

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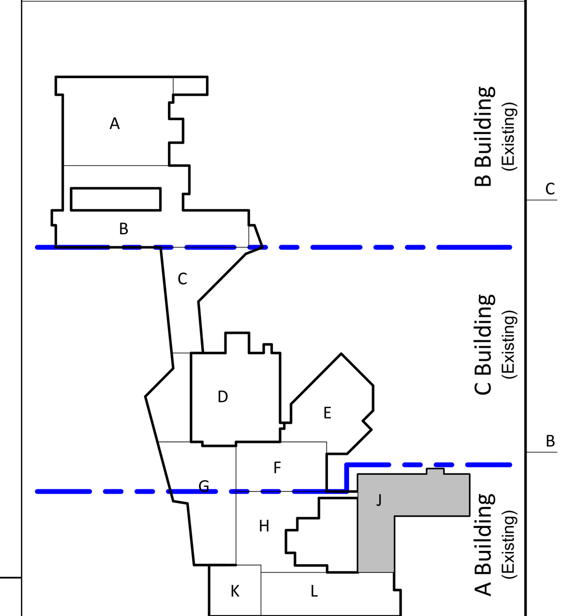
Floor Plan Notes

No.	Description
01	FIRE BLANKET
02	GOGGLE STORAGE CABINET

Key Plan:



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STATE OF MISSOURI TODD J. AULT NUMBER A-2005029072 ARCHITECT

Architectural Corporation
Missouri License No.: 2018022991
Todd Ault Date: 11/3/2020
Architect License No. A-2005029072

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AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/14/2021

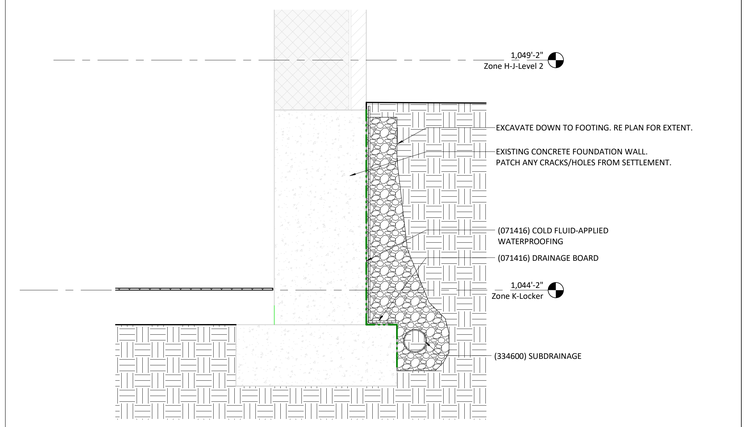
PROJECT NO: 0119-0100
DATE: November 3, 2020

Package 2

Floor Plan - Zone J - Level 2

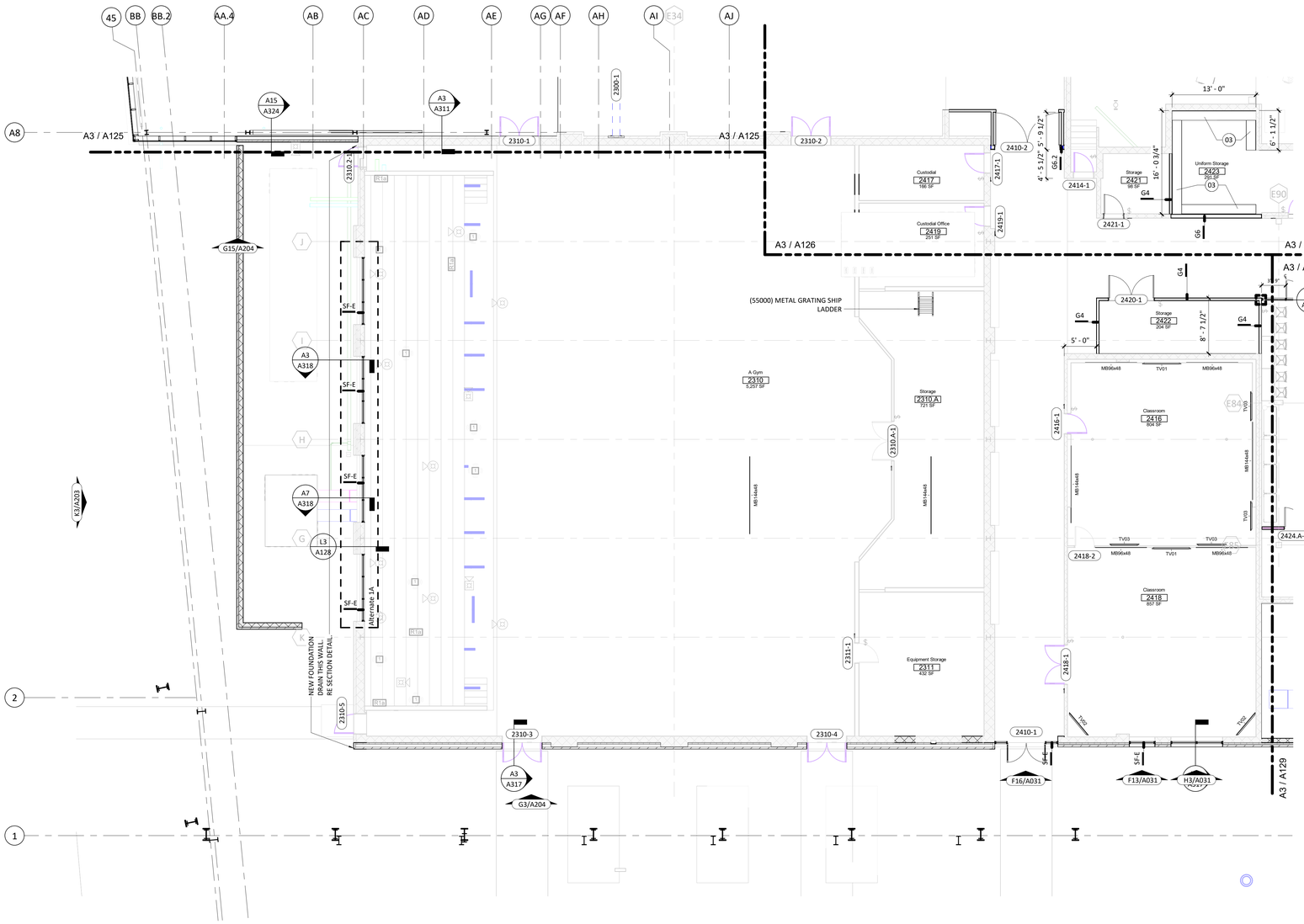
A127

FINAL DEVELOPMENT SET



Section Detail - South Locker Drainage L3

3/4" = 1'-0"



Zone K - Level 2 A3

1/8" = 1'-0"

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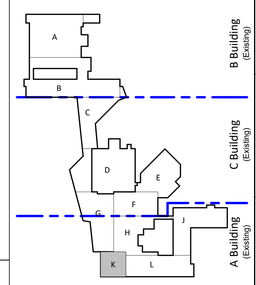
Floor Plan Notes

No.	Description
03	(064023) COAT RODS AND SHELVES, 2 LEVELS
05 50 00.01	(55000) METAL GRATING SHIP LADDER
07 14 16	(071416) COLD FLUID-APPLIED WATERPROOFING
07 14 16.A1	(071416) DRAINAGE BOARD
33 46 00	(334600) SUBDRAINAGE

Key Plan:



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STATE OF MISSOURI
TODD A. AULT
NUMBER
A-2005029072
ARCHITECT

Architectural Corporation
Missouri License No.: 2018022991
Todd Ault — Date: 11/3/2020
Architect — License No. A-2005029072

REVISIONS

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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/14/2021

PROJECT NO: 0119-0100
DATE: November 3, 2020

Package 2

Floor Plan - Zone K - Level 2

A128

FINAL DEVELOPMENT SET

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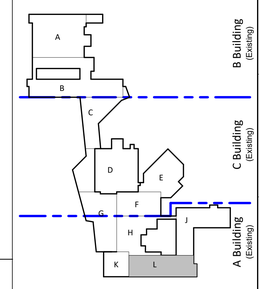
Floor Plan Notes

No.	Description
03	(064023) COAT RODS AND SHELVES, 2 LEVELS

Key Plan:



Zone L -Level 2 A3
1/8" = 1'-0"

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STATE OF MISSOURI TODD ALAN AUIT NUMBER A-2005029072 ARCHITECT

Architectural Corporation
Missouri License No.: 2018022991
Todd Auit Date: 11/3/2020
Architect License No. A-2005029072

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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/14/2021

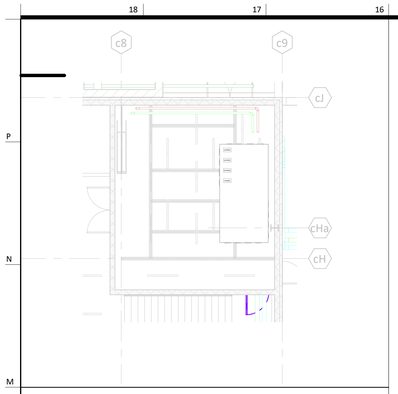
PROJECT NO: 0119-0100
DATE: November 3, 2020

Package 2

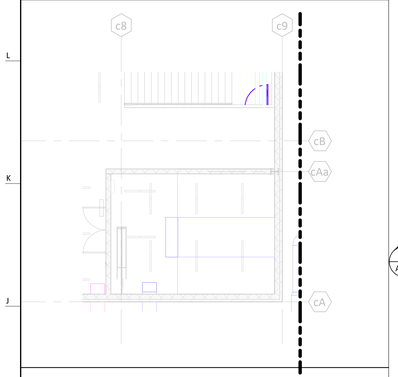
Floor Plan - Zone L - Level 2

A129

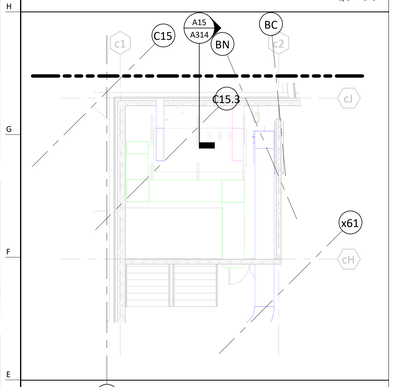
FINAL DEVELOPMENT SET



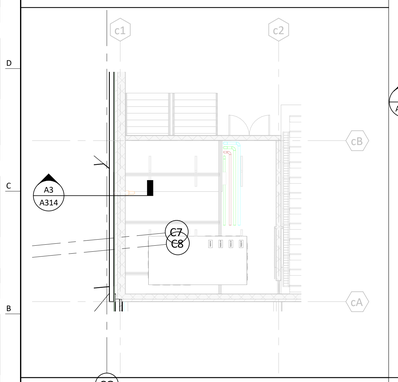
Zone D - Mezz - NE M16
1/8" = 1'-0"



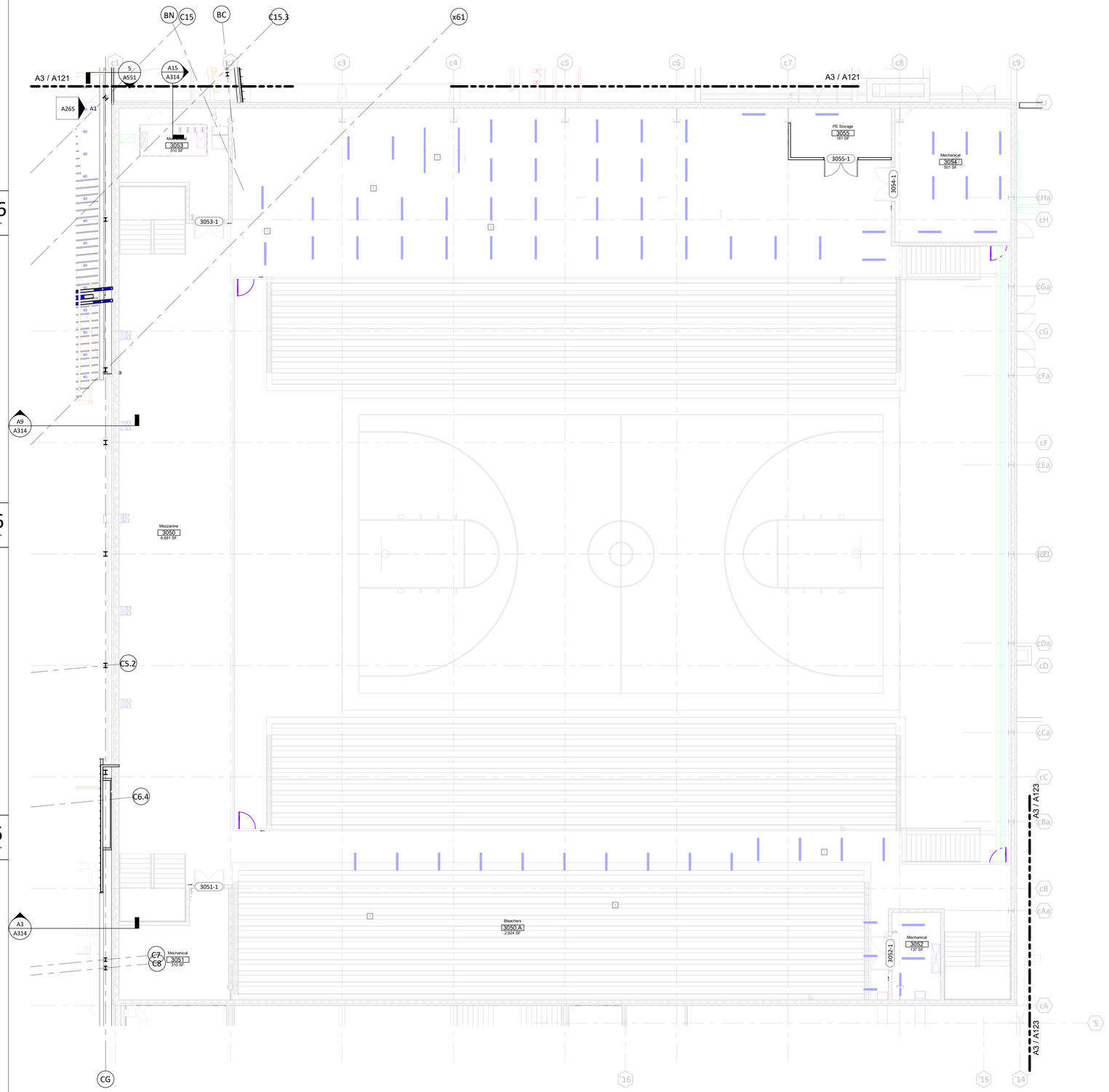
Zone D - Mezz - SE H16
1/8" = 1'-0"



Zone D - Mezz - NW E16
1/8" = 1'-0"



Zone D - Mezz - SW A16
1/8" = 1'-0"



Zone D - Level 3 A3
1/8" = 1'-0"

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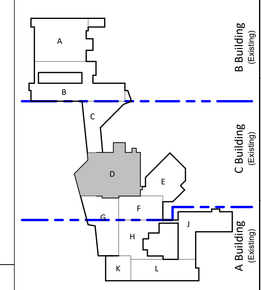
Floor Plan Notes

No.	Description

Key Plan:



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TODD AULT
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ARCHITECT

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LEE'S SUMMIT, MISSOURI
01/14/2021

PROJECT NO: 0119-0100
DATE: November 3, 2020

Package 2

Floor Plan - Zone D - Level 3

A130

FINAL DEVELOPMENT SET

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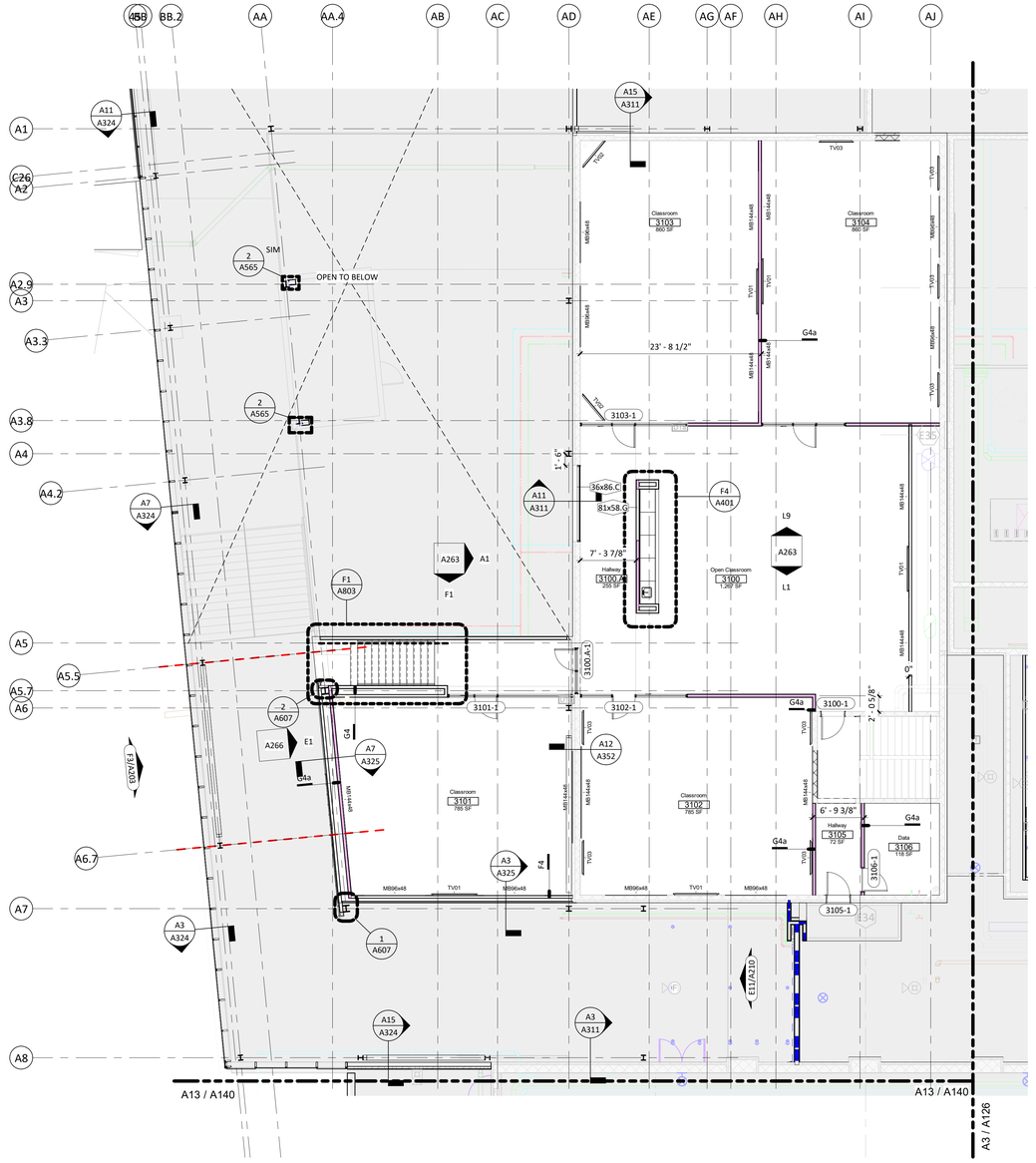

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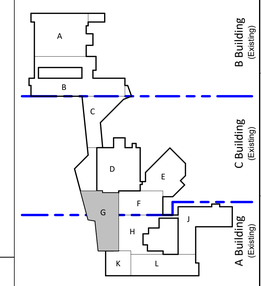
Floor Plan Notes

No.	Description

Key Plan:



Zone G - Level 3 A3
1/8" = 1'-0"

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01/14/2021

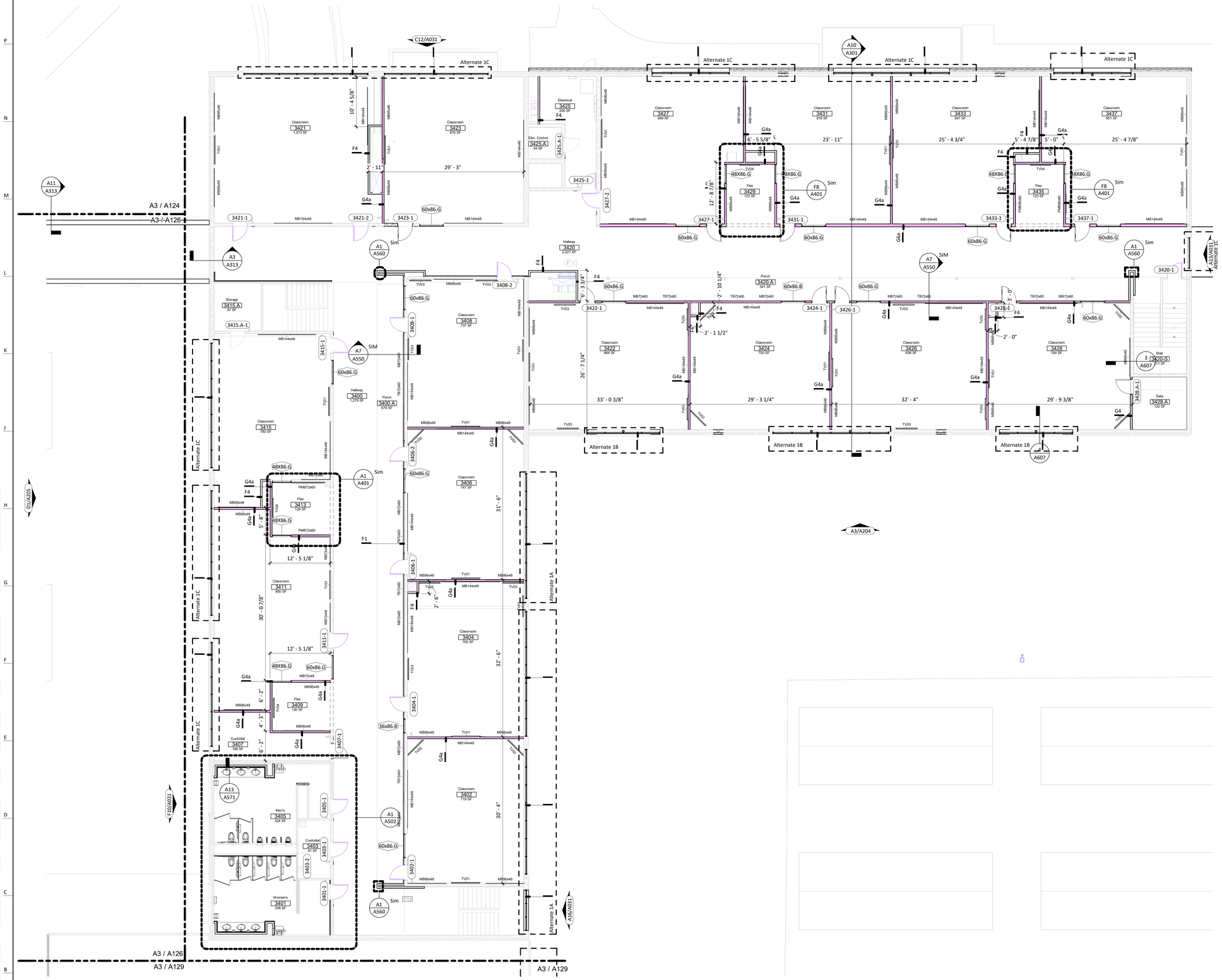
PROJECT NO: 0119-0100
DATE: November 3, 2020

Package 2

Floor Plan - Zone G - Level 3

A131

FINAL DEVELOPMENT SET



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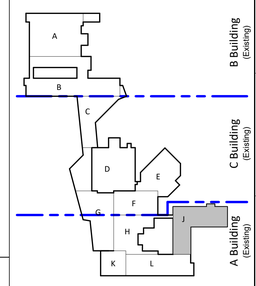
Floor Plan Notes

No.	Description

Key Plan:



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Lee's Summit, MO 64086

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structural engineer:
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MEPFT/Code:
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816.742.5000

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STATE OF MISSOURI TODD AULT NUMBER A-2005029072 ARCHITECT

Architectural Corporation
Missouri License No.: 2018022991
Todd Ault Date: 11/3/2020
Architect License No. A-2005029072

REVISIONS

Number	DESCRIPTION	DATE

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/14/2021

PROJECT NO: 0119-0100
DATE: November 3, 2020

Package 2

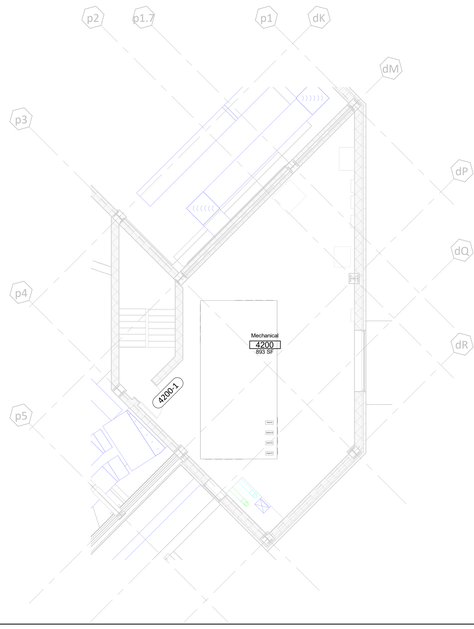
Floor Plan - Zone J - Level 3

A132

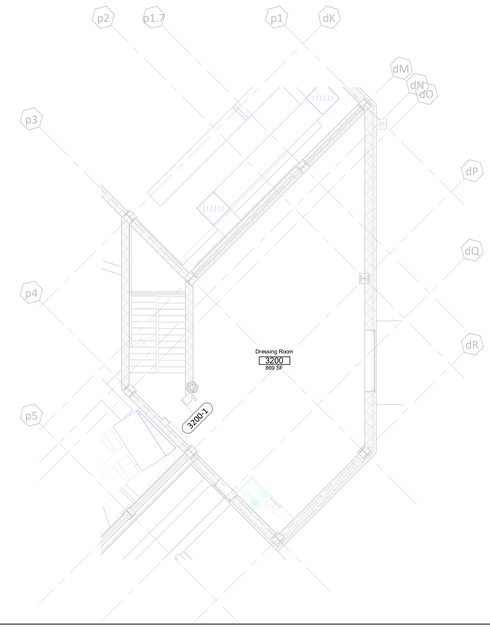
FINAL DEVELOPMENT SET

Zone J - Level 3 A3
1/8" = 1'-0"

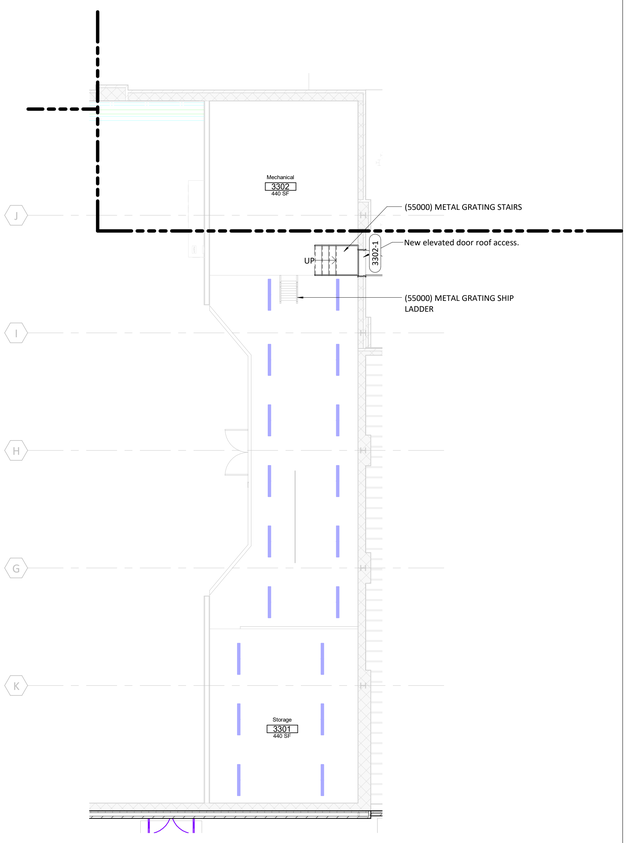
PRINT DATE/TIME: 11/18/2020 4:17:37 PM



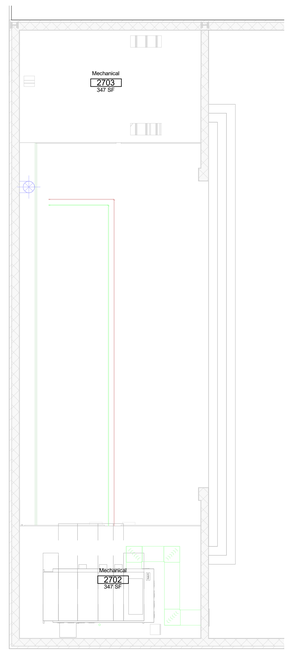
Zone E - Mezz - PAC J8
1/8" = 1'-0"



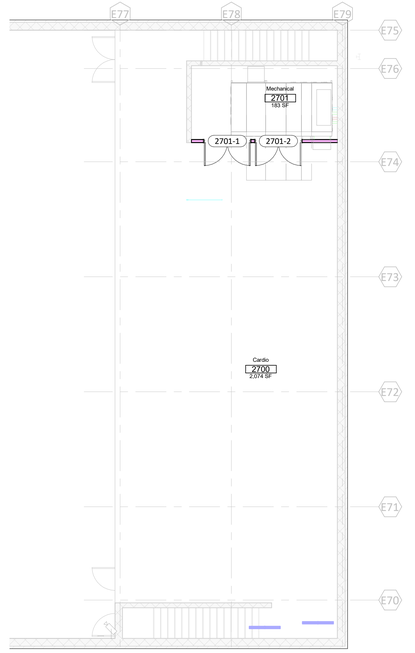
Zone E - Level 2 (PAC) J3
1/8" = 1'-0"



Zone K - Mezz A13
1/8" = 1'-0"



Zone A - Mezz (Stage) A8
1/8" = 1'-0"



Zone A - Mezz A3
1/8" = 1'-0"

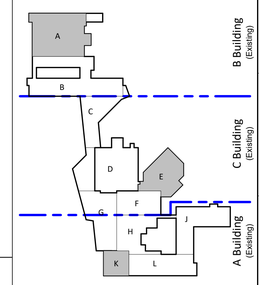
General Notes (Floor Plans):

1. ALL NEW WALL TYPES TO BE G4a UNLESS OTHERWISE NOTED.
2. ALL WALL DIMENSIONS ARE TO FACE OF WALL UNLESS OTHERWISE NOTED.
3. MASONRY WALLS ARE NOMINALLY CENTERED ON GRID LINES AND MASONRY DIMENSIONS ARE NOMINAL UNLESS OTHERWISE NOTED
4. DOORS IN STUD WALLS NEAR PERPENDICULAR WALLS ARE LOCATED 4" OFF FACE OF PERPENDICULAR WALL UNLESS OTHERWISE NOTED.
5. DOORS IN MASONRY WALLS ARE LOCATED IN ROUGH OPENINGS DIMENSIONED ON SHEET
6. SEE GENERAL ACCESSIBILITY SHEET FOR HEIGHTS AND LOCATIONS OF TOILET ACCESSORIES NOT SHOWN ON ELSEWHERE.
7. CONTRACTOR TO FIELD VERIFY ALL MEASUREMENTS AND CONDITIONS NEW AND EXISTING. NOTIFY THE ARCHITECT/OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES.
8. ENLARGED PLANS MAY BE ROTATED OR MIRRORED COORDINATE WITH MAIN FLOOR PLAN.

Floor Plan Notes

No.	Description
05 50 00.O	(S5000) METAL GRATING STAIRS

Key Plan:



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Lee's Summit High School

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STATE OF MISSOURI
TODD M. AULT
NUMBER A-2005029072
ARCHITECT

Architectural Corporation
Missouri License No.: 2018022991
Todd Ault — Date: 11/3/2020
Architect — License No. A-2005029072

REVISIONS

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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/14/2021

PROJECT NO: 0119-0100
DATE: November 3, 2020

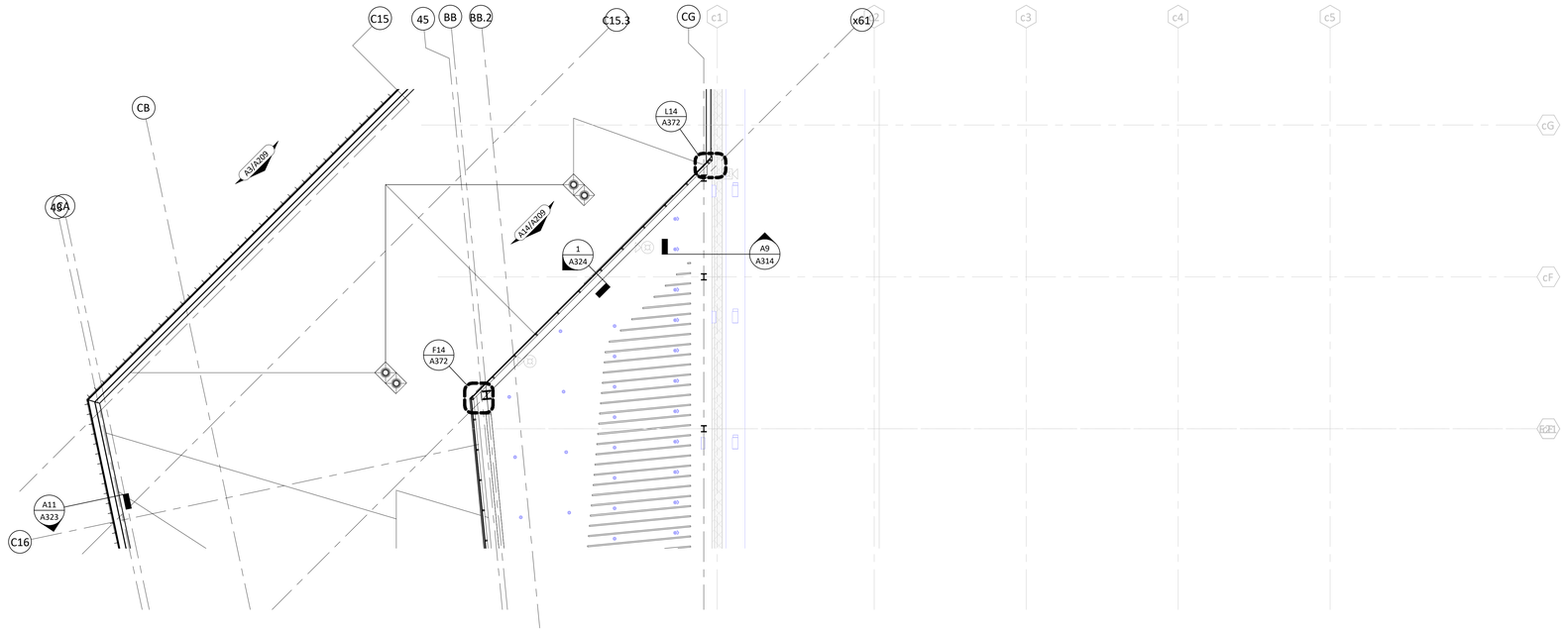
Package 2

Floor Plan - Mezzanines

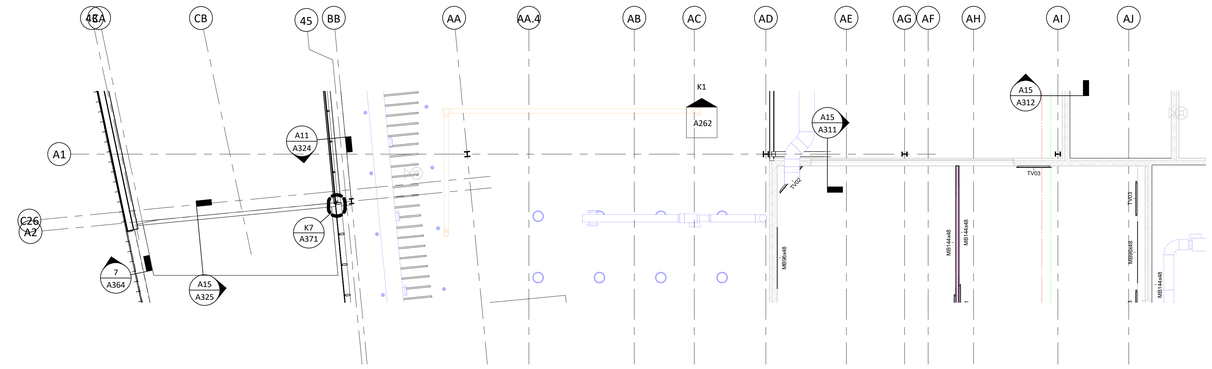
A140

FINAL DEVELOPMENT SET

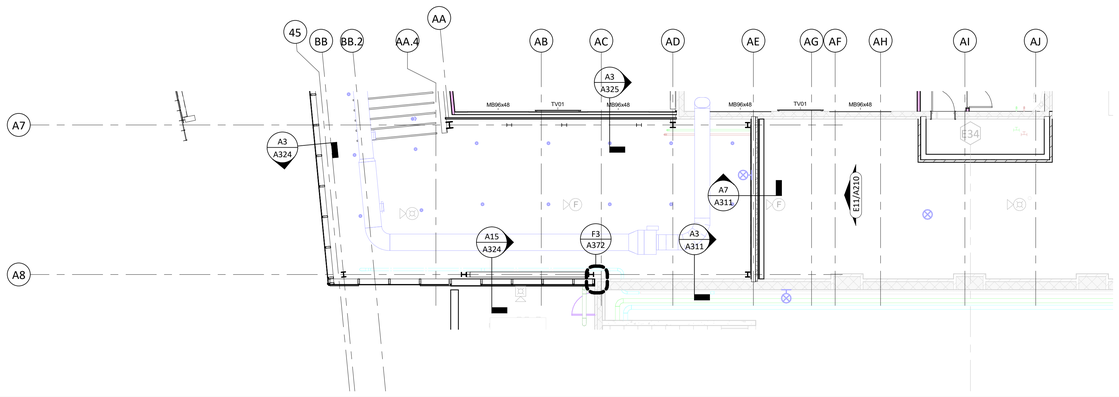
PRINT DATE/TIME: 11/18/2020 4:17:54 PM



Zone D - Clerestory J3
1/8" = 1'-0"



Zone G - Clerestory to SF E3
1/8" = 1'-0"



Zone G - Clerestory A3
1/8" = 1'-0"

General Notes (Floor Plans):

1. ALL NEW WALL TYPES TO BE G4a UNLESS OTHERWISE NOTED.
2. ALL WALL DIMENSIONS ARE TO FACE OF WALL UNLESS OTHERWISE NOTED.
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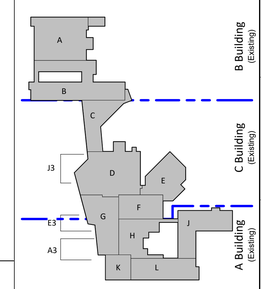
8. ENLARGED PLANS MAY BE ROTATED OR MIRRORED COORDINATE WITH MAIN FLOOR PLAN.

Floor Plan Notes	
No.	**Description**

Key Plan:



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Lee's Summit High School

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Lee's Summit R-7 School District
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Architectural Corporation
Missouri License No.: 2018022991
Todd Ault — Date: 11/3/2020
Architect — License No. A-2005029072

REVISIONS

Number	DESCRIPTION	DATE

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

01/14/2021

PROJECT NO: 0119-0100
DATE: November 3, 2020

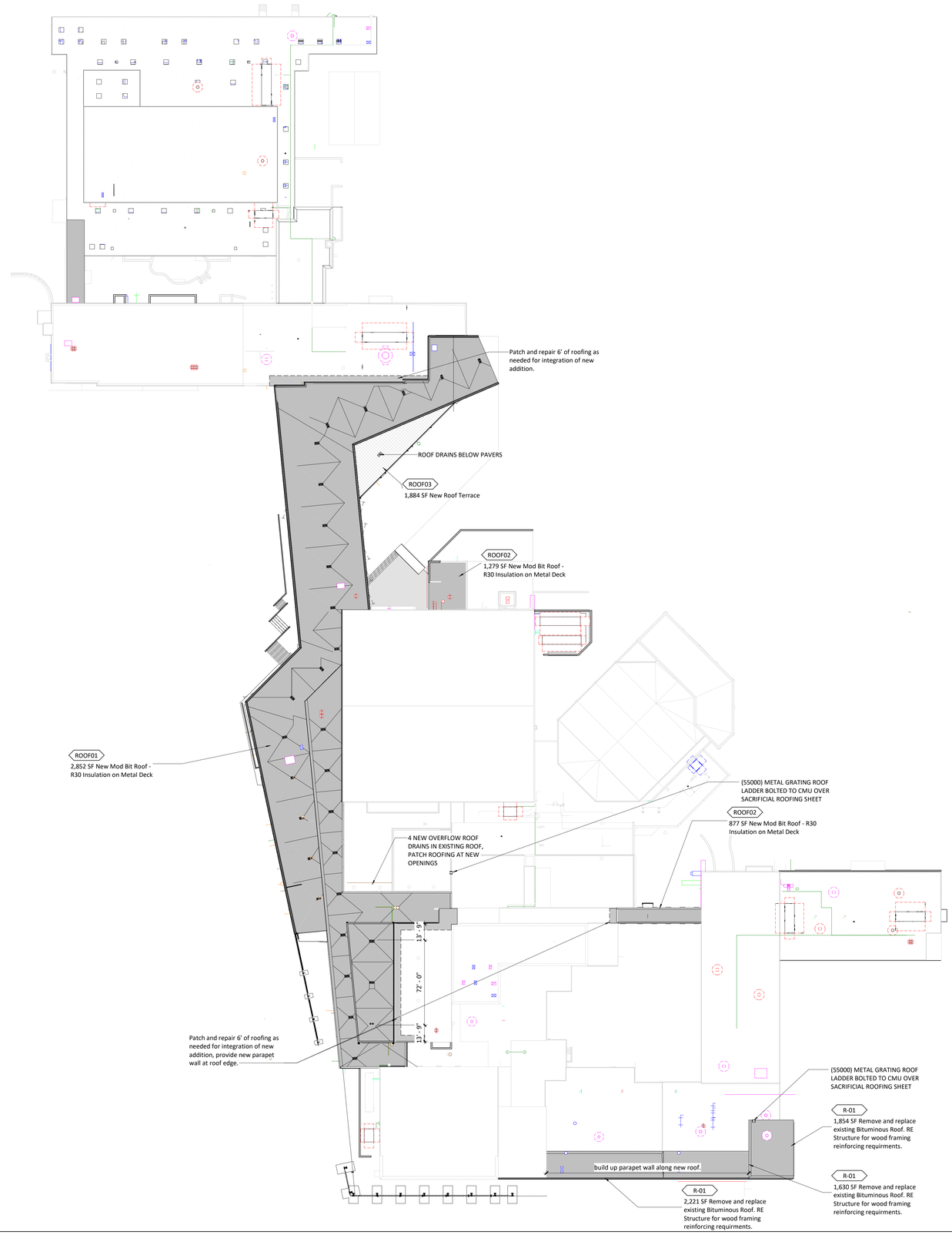
Package 2

Floor Plan - Clerestories

A141

FINAL DEVELOPMENT SET

PRINT DATE/TIME: 11/18/2020 4:18:06 PM



General Notes: (Roof Plan)

1. REFER TO EXTERIOR ENCLOSURE TYPES FOR ROOF DETAILS.
2. MINIMUM SLOPES ON ROOF SHALL BE 1/4" PER FOOT IN DIRECTION OF DRAINS OR ROOF EDGE
3. ELEVATION ABBREVIATIONS AS FOLLOWS: **BOD** = BOTTOM OF DECK, **TOS** = TOP OF STEEL, **TOP** = TOP OF PARAPET
4. OBJECT ABBREVIATIONS AS FOLLOWS: **RD** = ROOF DRAIN, **RTU** = ROOFTOP UNIT, **RH** = ROOF HATCH
5. PROVIDE ALL ROOFING DETAILS BY MANUFACTURERS WARRANTED SYSTEMS.
6. PROVIDE WALKWAY PADS AT ALL ROOF LADDERS AND AT ALL ROOFTOP EQUIPMENT WORKING AREAS.
7. PROVIDE CRICKETS AT ALL ROOFTOP EQUIPMENT TO FACILITATE DRAINAGE.

Roof Plan - Overall A3

1" = 40'-0"

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Lee's Summit High School

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STATE OF MISSOURI TODD A. AULT NUMBER A-2005029072 ARCHITECT

Architectural Corporation
Missouri License No.: 2018022991
Todd Ault — Date: 11/3/2020
Architect — License No. A-2005029072

REVISIONS

Number	DESCRIPTION	DATE

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

01/14/2021

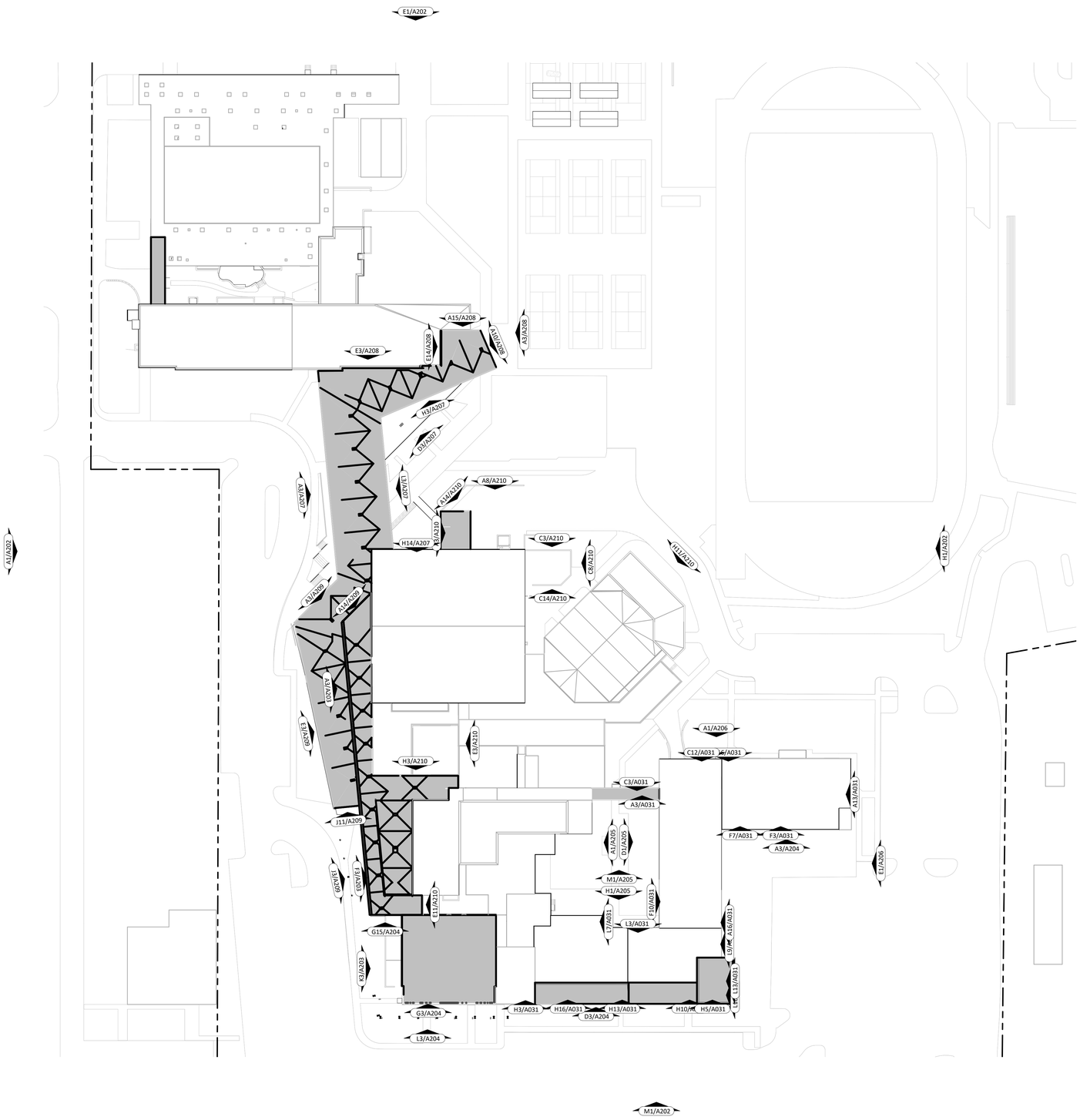
PROJECT NO: 0119-0100
DATE: November 3, 2020

Package 2

Roof Plan

A150

FINAL DEVELOPMENT SET



General Notes (Exterior Elevations):

1. MATERIALS AND FINISHES INDICATED APPLY TO ALL SIMILAR ELEMENTS.
2. COORDINATE EXTERIOR LIGHTING FIXTURE TYPES AND LOCATIONS WITH ELECTRICAL DRAWINGS.

dark grey metal

red brick to match existing

glass

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Lee's Summit High School

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STATE OF MISSOURI
TODD A. AULT
NUMBER
A-2005029072
ARCHITECT

Architectural Corporation
Missouri License No.: 2018022991
Todd Ault — Date: 11/3/2020
Architect — License No. A-2005029072

REVISIONS

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AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/14/2021

PROJECT NO: 0119-0100
DATE: November 3, 2020

Package 2

Exterior Elevations - Reference Plan

A201

FINAL DEVELOPMENT SET

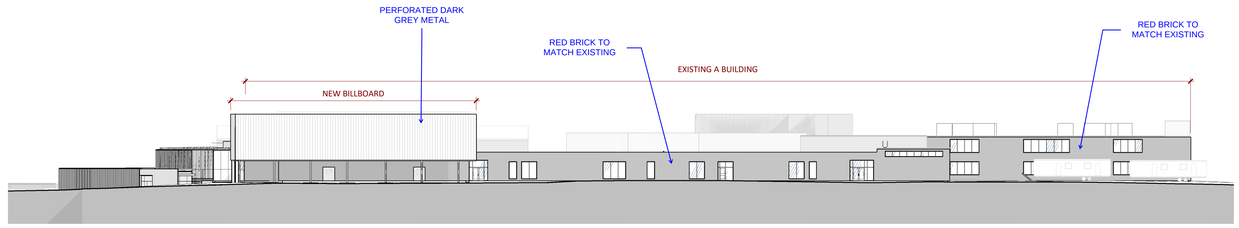
Exterior Elevation - Reference Plan A3
1" = 50'-0"

PRINT DATE/TIME: 11/18/2020 5:49:27 PM

dark grey metal

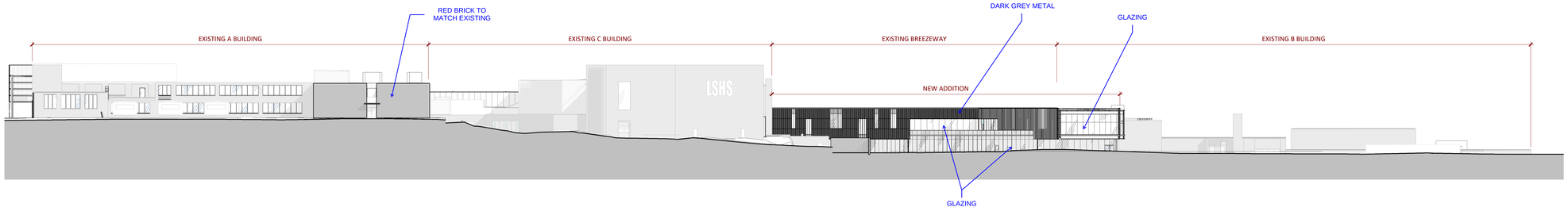
red brick to match existing

glass



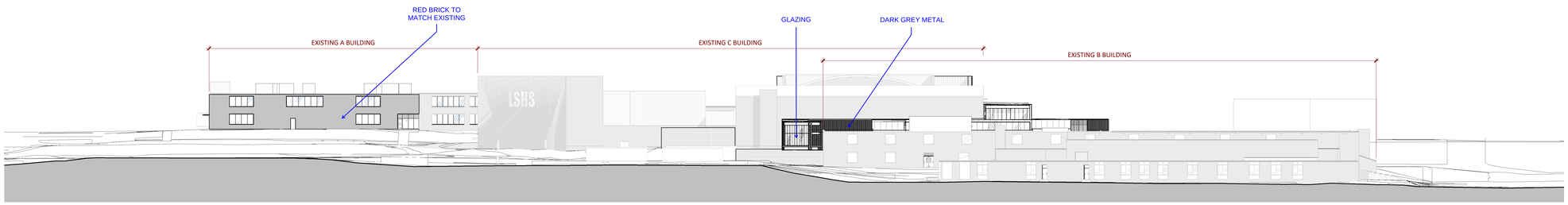
Overall Exterior Elevation - South M1

1/32" = 1'-0"



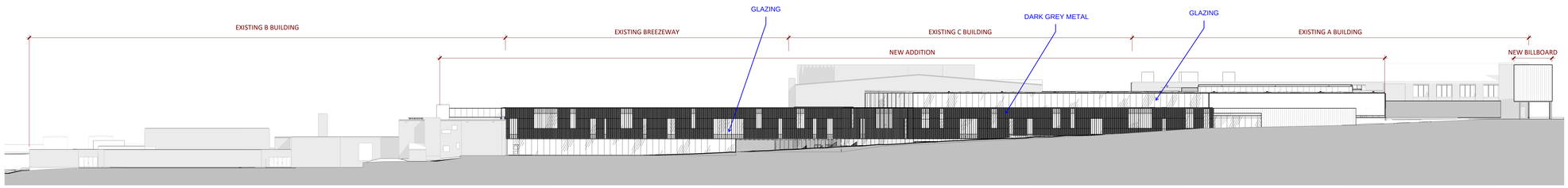
Overall Exterior Elevation - East H1

1/32" = 1'-0"



Overall Exterior Elevation - North E1

1/32" = 1'-0"



Overall Exterior Elevation - West A1

1/32" = 1'-0"

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Missouri License No.: 2018022991
Jane Doe — Date: MM/DD/2018
Architect — License No. A-0000000

REVISIONS

Number	DESCRIPTION	DATE

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

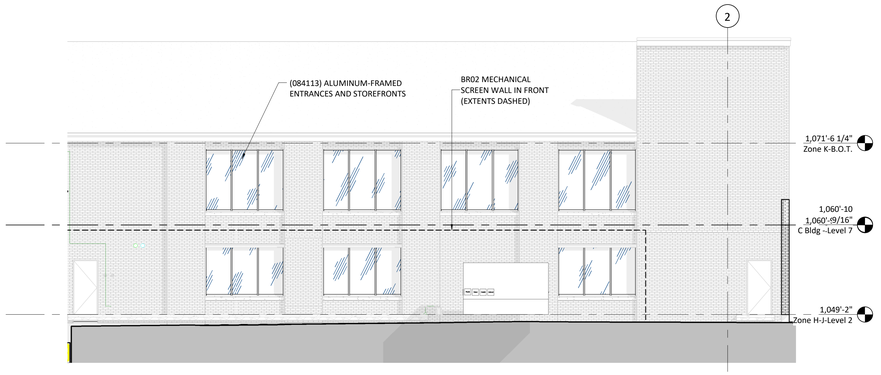
01/14/2021

PROJECT NO: 0119-0100
DATE: September 4, 2020

Overall Exterior Elevations

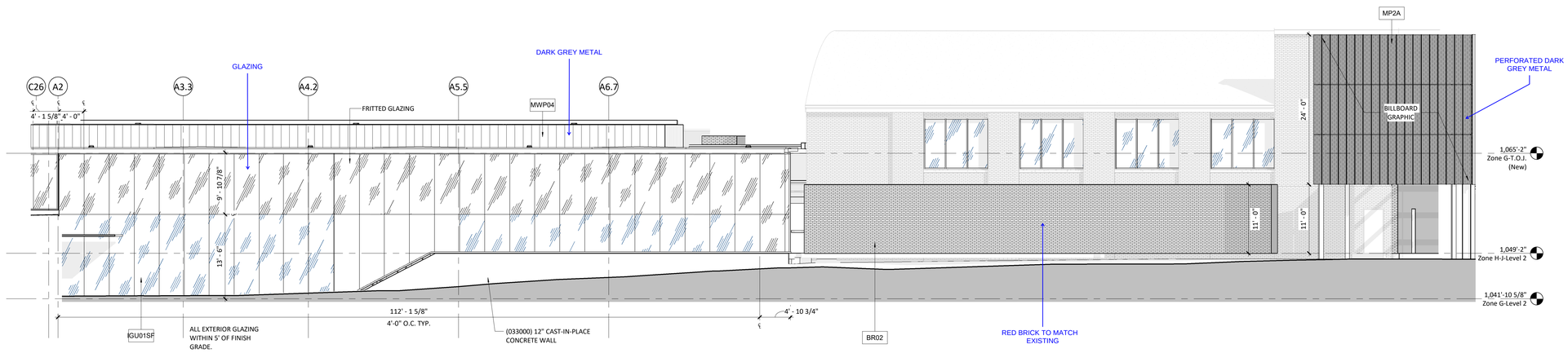
A202

FINAL DEVELOPMENT SET



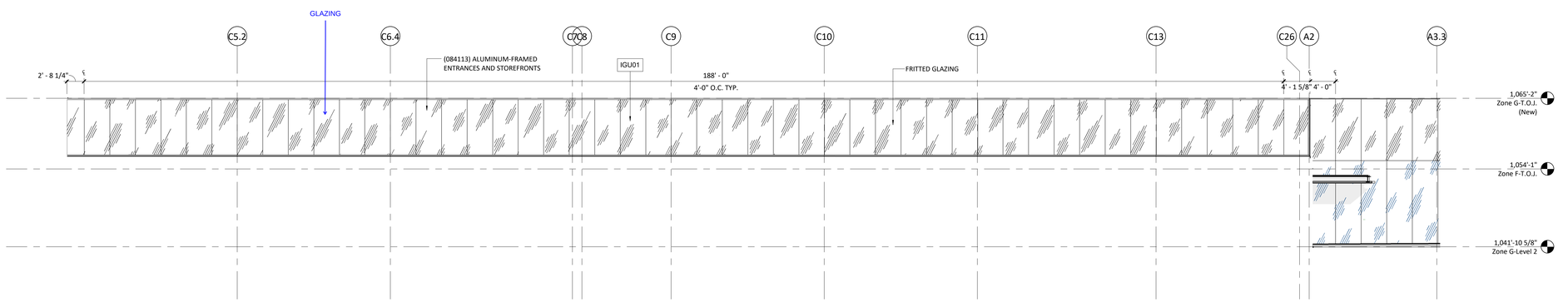
Exterior Elevation - A Bldg - West K3

1/8" = 1'-0"



Exterior Elevation - A wing - Innovation Hub - Part 2 F3

1/8" = 1'-0"



Exterior Elevation - A wing - Innovation Hub - Part 1 A3

1/8" = 1'-0"

General Notes (Exterior Elevations):

1. MATERIALS AND FINISHES INDICATED APPLY TO ALL SIMILAR ELEMENTS.
2. COORDINATE EXTERIOR LIGHTING FIXTURE TYPES AND LOCATIONS WITH ELECTRICAL DRAWINGS.

Finish Legend - Exterior

MATERIAL	DESCRIPTION
MP2A	Metal Panel System - Perforated
MP2B	Metal Panel System - Perforated
MWP01	Metal Rainscreen System - Solid
MWP04	Metal Rainscreen System - Generic

dark grey metal

red brick to match existing

glass

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Architect License No. A-2005029072

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LEE'S SUMMIT, MISSOURI
01/14/2021

PROJECT NO: 0119-0100
DATE: November 3, 2020

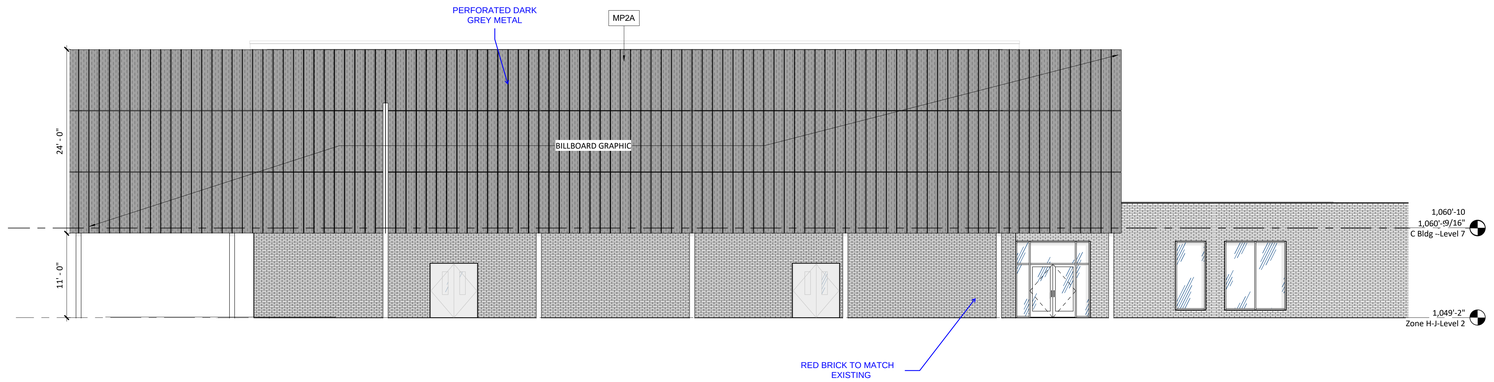
Package 2

Exterior Elevations - A Building

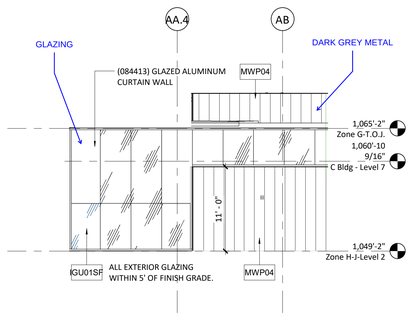
A203

FINAL DEVELOPMENT SET

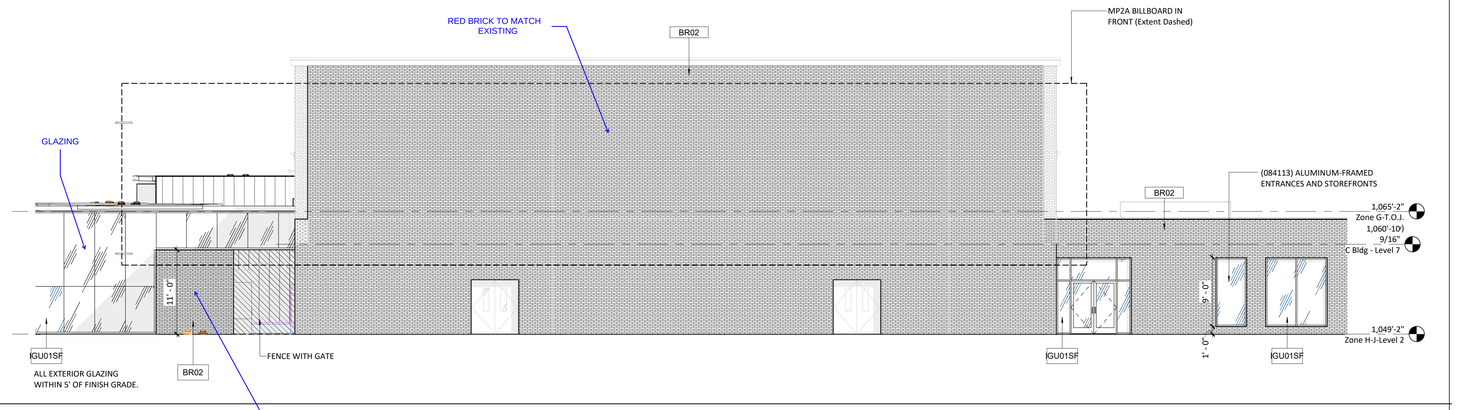
PRINT DATE/TIME: 11/18/2020 5:50:18 PM



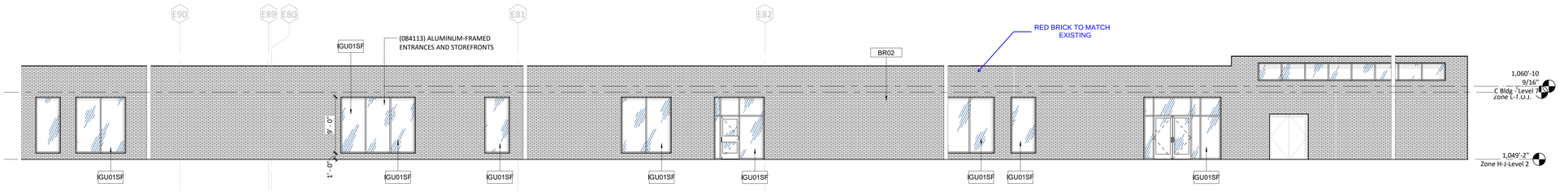
Exterior Elevation - A Bldg - South - Scrim L3
1/8" = 1'-0"



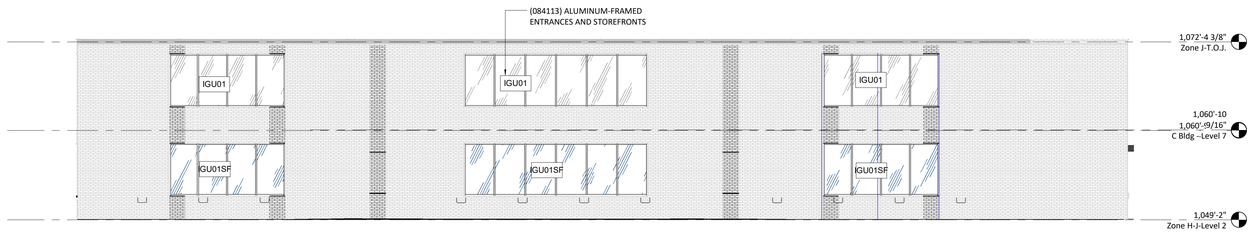
Exterior Elevation - South Hub - South G15
1/8" = 1'-0"



Exterior Elevation - A Bldg - South G3
1/8" = 1'-0"



Exterior Elevation - A Bldg - South D3
1/8" = 1'-0"



Exterior Elevation - A Wing - South A3
1/8" = 1'-0"

PRINT DATE/TIME: 11/18/2020 5:51:53 PM

General Notes (Exterior Elevations):

1. MATERIALS AND FINISHES INDICATED APPLY TO ALL SIMILAR ELEMENTS.
2. COORDINATE EXTERIOR LIGHTING FIXTURE TYPES AND LOCATIONS WITH ELECTRICAL DRAWINGS.

Finish Legend - Exterior

MATERIAL	DESCRIPTION
MP2A	Metal Panel System - Perforated
MP2B	Metal Panel System - Perforated
MWP01	Metal Rainscreen System - Solid
MWP04	Metal Rainscreen System - Generic

dark grey metal

red brick to match existing

glass

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Lee's Summit High School

400 SE Blue Pkwy
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Lee's Summit R-7 School District
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Lee's Summit, MO 64086

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816.931.6655 voice
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structural engineer:
Bob D. Campbell & Company, Inc.
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civil engineer:
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STATE OF MISSOURI TODD M. AUFT NUMBER A-2005029072 REGISTERED ARCHITECT

Architectural Corporation
Missouri License No.: 2018022991
Todd Auft Date: 11/3/2020
Architect License No. A-2005029072

REVISIONS

Number	DESCRIPTION	DATE

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

01/14/2021

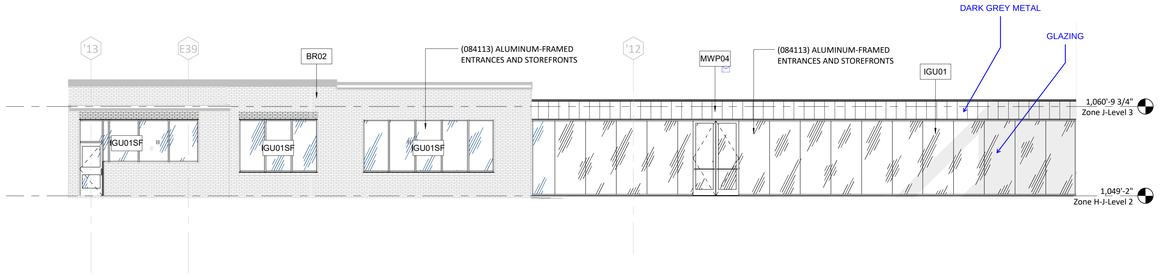
PROJECT NO: 0119-0100
DATE: November 3, 2020

Package 2

Exterior Elevations - A Building

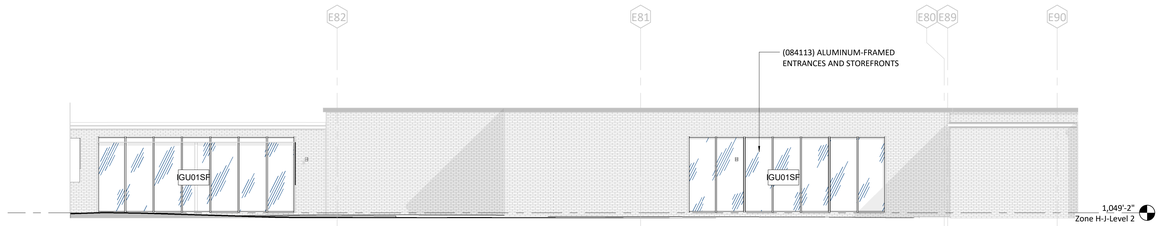
A204

FINAL DEVELOPMENT SET



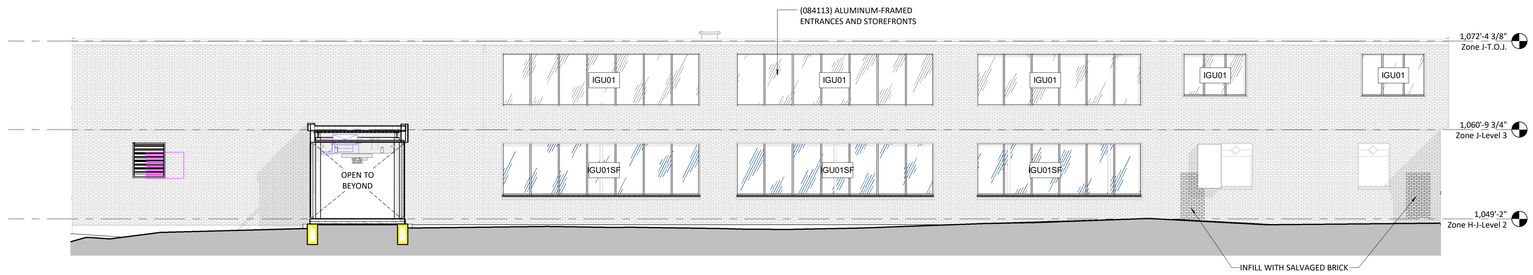
Exterior Elevation - A Bldg - Courtyard North M1

1/8" = 1'-0"



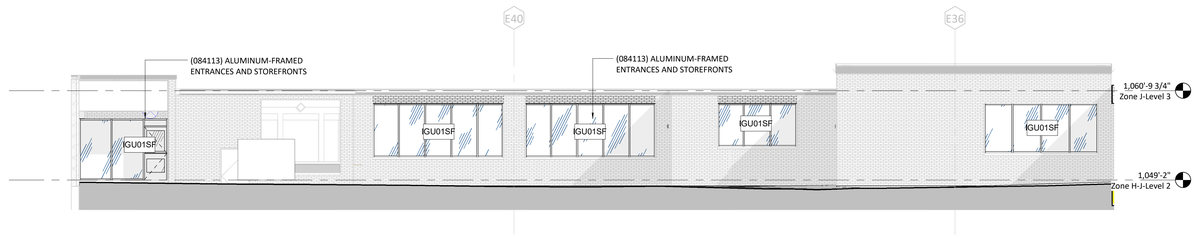
Exterior Elevation - A Bldg - Courtyard South H1

1/8" = 1'-0"



Exterior Elevation - A Bldg - Courtyard East D1

1/8" = 1'-0"



Exterior Elevation - A Bldg - Courtyard West A1

1/8" = 1'-0"

PRINT DATE/TIME: 11/18/2020 5:52:40 PM

General Notes (Exterior Elevations):

1. MATERIALS AND FINISHES INDICATED APPLY TO ALL SIMILAR ELEMENTS.
2. COORDINATE EXTERIOR LIGHTING FIXTURE TYPES AND LOCATIONS WITH ELECTRICAL DRAWINGS.

dark grey metal

red brick to match existing

glass

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Architectural Corporation
Missouri License No.: 2018022991
Todd Ault — Date: 11/3/2020
Architect — License No. A-2005029072

REVISIONS

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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/14/2021

PROJECT NO: 0119-0100
DATE: November 3, 2020

Package 2

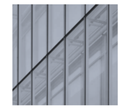
Exterior Elevations - A Building

A205

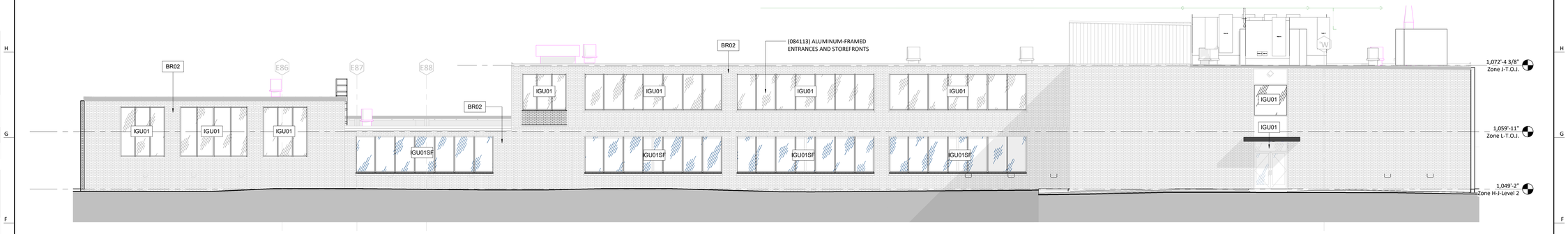
FINAL DEVELOPMENT SET

dark grey metal

red brick to match existing

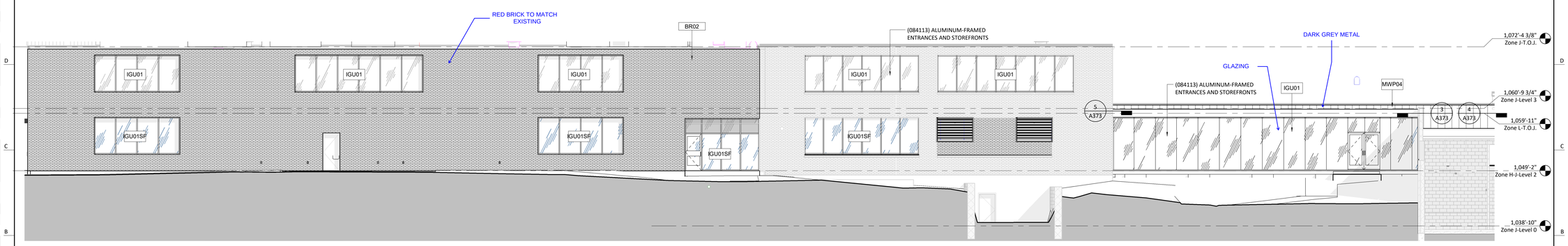


glass



Exterior Elevation - A Wing - East E1

1/8" = 1'-0"



Exterior Elevation - A Wing - North A1

1/8" = 1'-0"

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Lee's Summit High School

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STATE OF MISSOURI TODD AUIT NUMBER A-2005029072 REGISTERED ARCHITECT

Architectural Corporation
Missouri License No.: 2018022991
Todd Auit — Date: 11/3/2020
Architect — License No. A-2005029072

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AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/14/2021

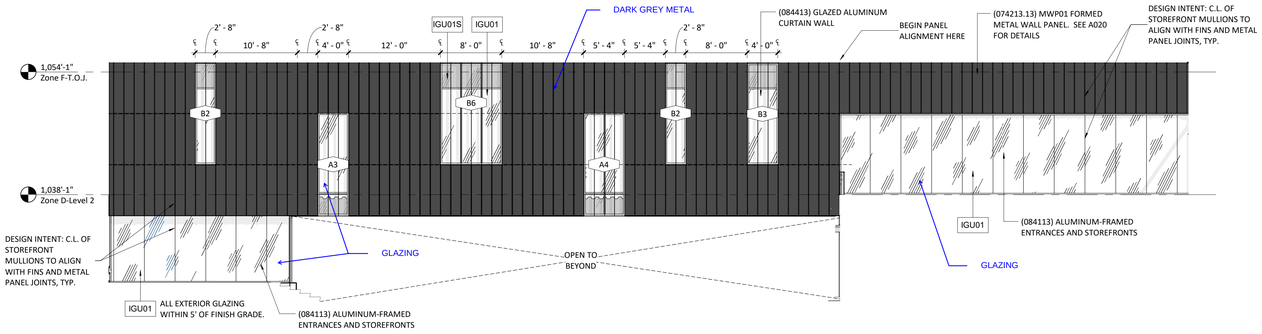
PROJECT NO: 0119-0100
DATE: November 3, 2020

Package 2

Exterior Elevations - A Building

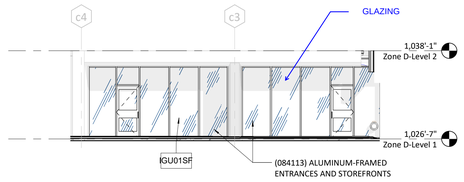
A206

FINAL DEVELOPMENT SET



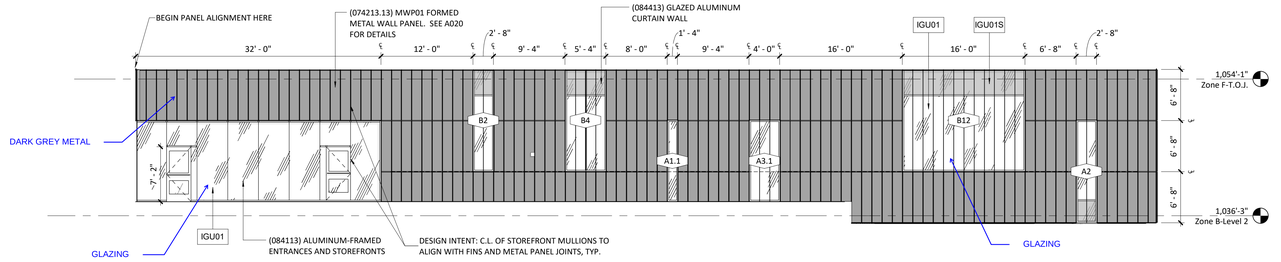
Exterior Elevation - B Building - Bridge L3

1/8" = 1'-0"



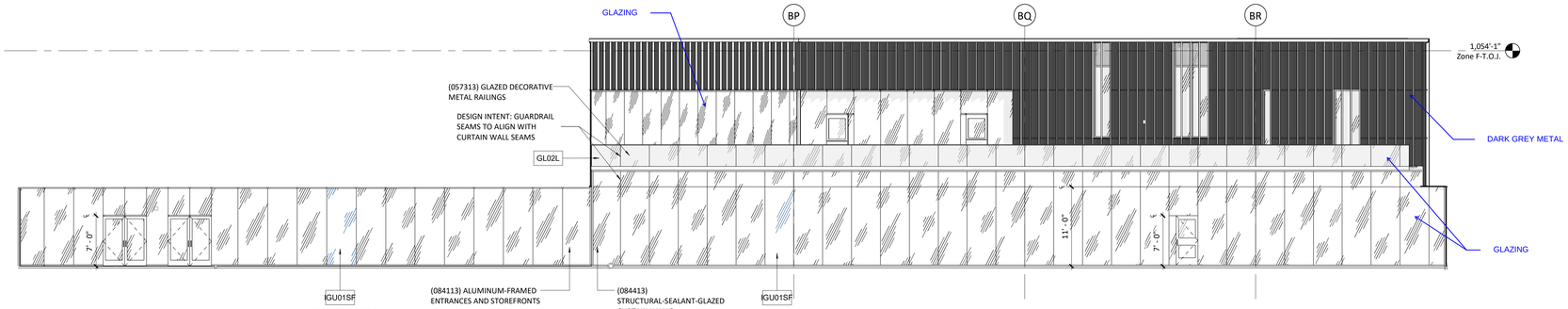
Exterior Elevation - C Building - Cafeteria Entry H14

1/8" = 1'-0"



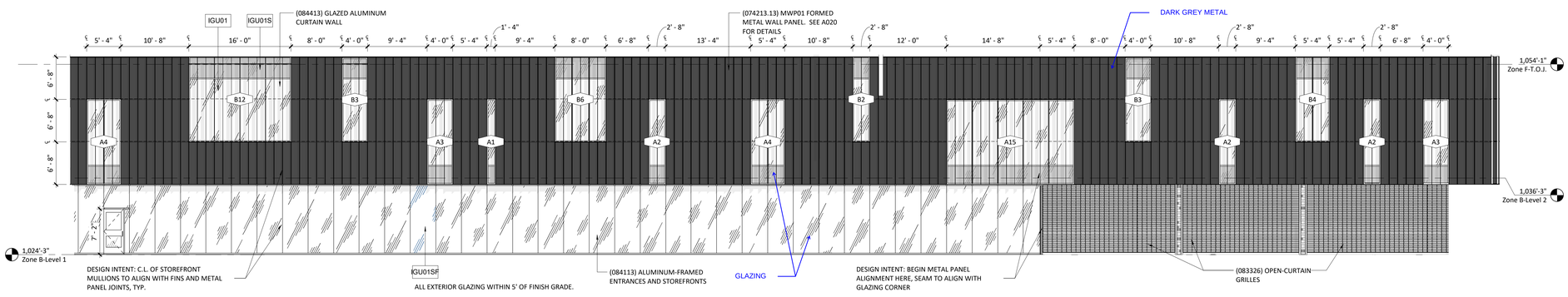
Exterior Elevation - B Building - South H3

1/8" = 1'-0"



Exterior Elevation - B Building - SE D3

1/8" = 1'-0"



Exterior Elevation - B Building - West A3

1/8" = 1'-0"

General Notes (Exterior Elevations):

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2. COORDINATE EXTERIOR LIGHTING FIXTURE TYPES AND LOCATIONS WITH ELECTRICAL DRAWINGS.

Finish Legend - Exterior

MATERIAL	DESCRIPTION
MP2A	Metal Panel System - Perforated
MP2B	Metal Panel System - Perforated
MWP01	Metal Rainscreen System - Solid
MWP04	Metal Rainscreen System - Generic

dark grey metal

red brick to match existing

glass

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STATE OF MISSOURI TODD AULT NUMBER A-2005029072 ARCHITECT

Architectural Corporation
Missouri License No.: 2018022991
Todd Ault Date: 11/3/2020
Architect License No. A-2005029072

REVISIONS

Number	DESCRIPTION	DATE

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/14/2021

PROJECT NO: 0119-0100
DATE: November 3, 2020

Package 2

Exterior Elevations - B Building

A207

FINAL DEVELOPMENT SET

PRINT DATE/TIME: 11/18/2020 5:56:09 PM

General Notes (Exterior Elevations):

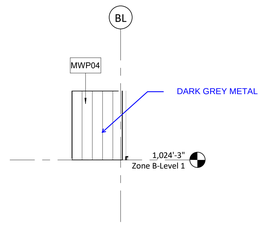
1. MATERIALS AND FINISHES INDICATED APPLY TO ALL SIMILAR ELEMENTS.
2. COORDINATE EXTERIOR LIGHTING FIXTURE TYPES AND LOCATIONS WITH ELECTRICAL DRAWINGS.

Finish Legend - Exterior	
MATERIAL	**DESCRIPTION**
MP2A	Metal Panel System - Perforated
MP2B	Metal Panel System - Perforated
MWP01	Metal Rainscreen System - Solid
MWP04	Metal Rainscreen System - Generic

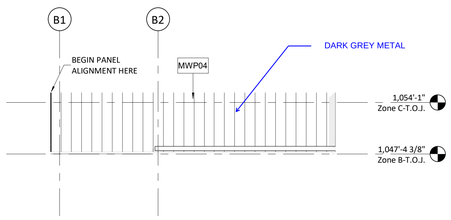
dark grey metal

red brick to match existing

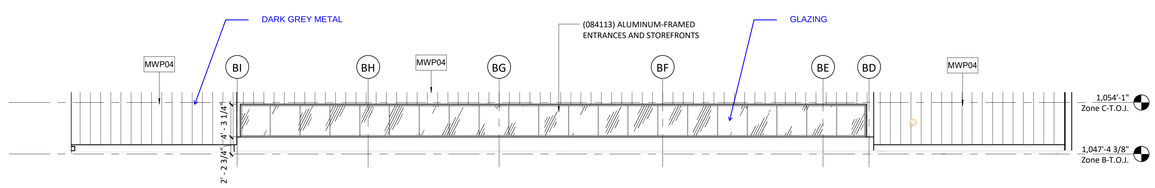
glass



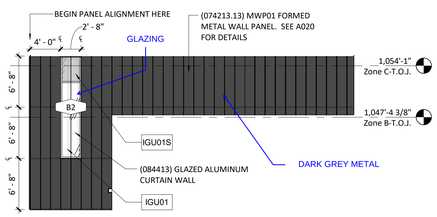
Exterior Elevation - B Bldg - Under Cnatilever 1
1/8" = 1'-0"



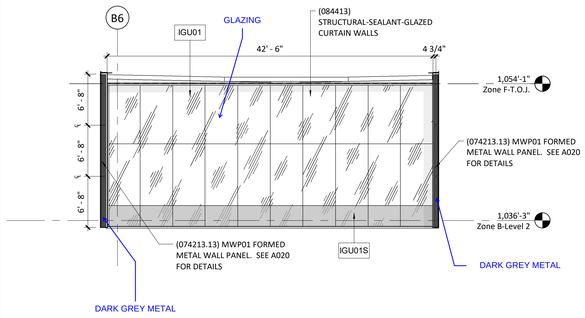
Exterior Elevation - B Bldg - NW E14
1/8" = 1'-0"



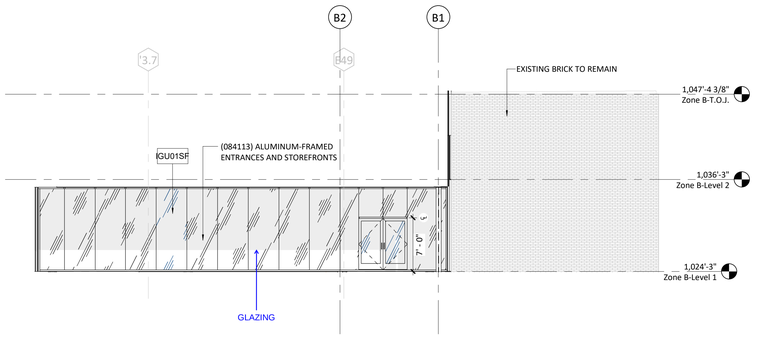
Exterior Elevation - B Bldg - North E3
1/8" = 1'-0"



Exterior Elevation - B Building North A15
1/8" = 1'-0"



Exterior Elevation - B Building - Cantilever A10
1/8" = 1'-0"



Exterior Elevation - B Building - East A3
1/8" = 1'-0"

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STATE OF MISSOURI
TODD A. AULT
NUMBER
A-2005029072
ARCHITECT

Architectural Corporation
Missouri License No.: 2018022991
Todd Ault — Date: 11/3/2020
Architect — License No. A-2005029072

REVISIONS

Number	DESCRIPTION	DATE

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/14/2021

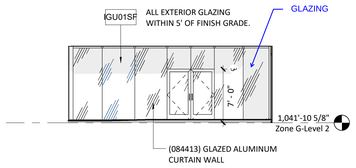
PROJECT NO: 0119-0100
DATE: November 3, 2020

Package 2

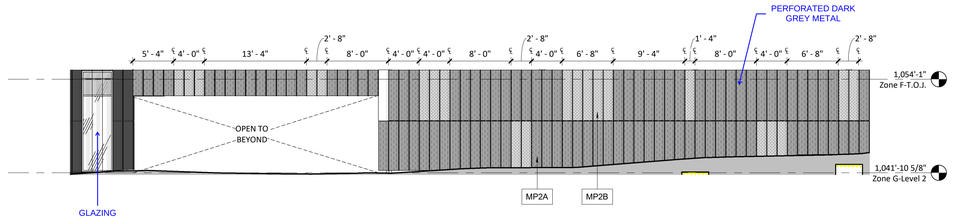
Exterior Elevations - B Building

A208

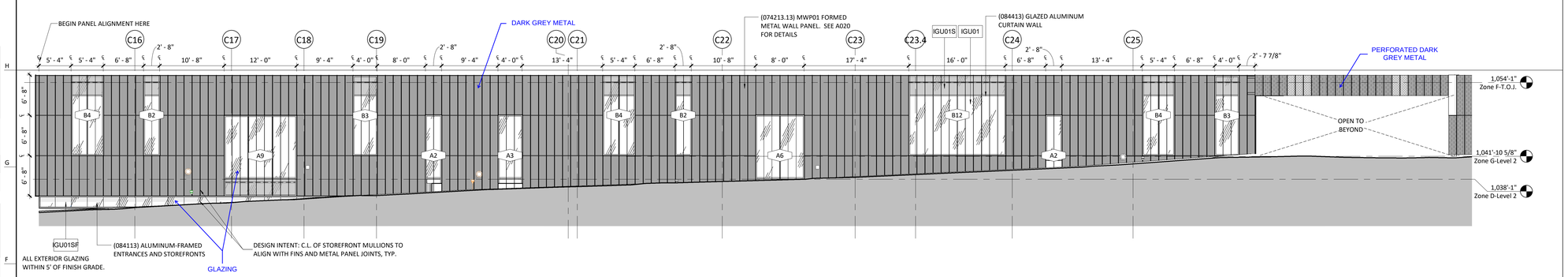
FINAL DEVELOPMENT SET



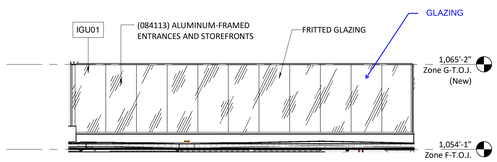
Exterior Elevation - C Bldg - Entry J11
1/8" = 1'-0"



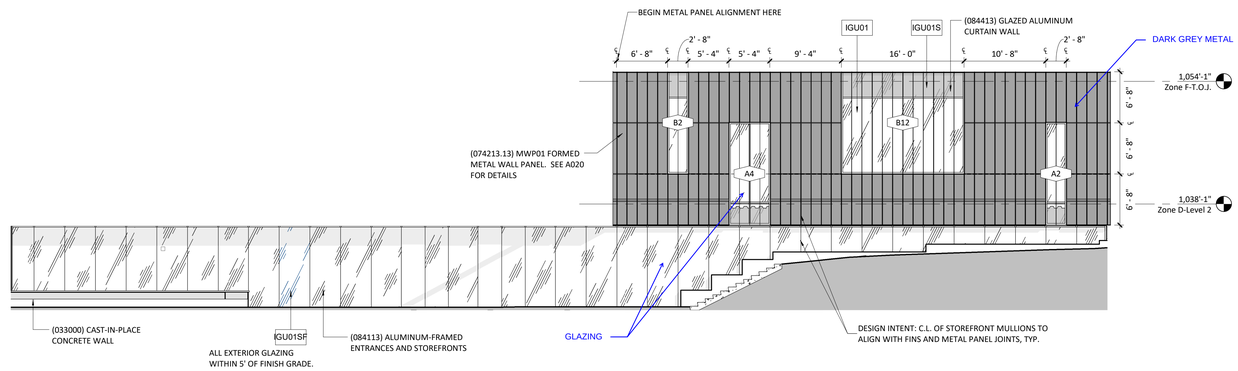
Exterior Elevation - C Bldg - West - Part 2 J3
1/8" = 1'-0"



Exterior Elevation - C Bldg - West - Part 1 E3
1/8" = 1'-0"



Exterior Elevation - Clerestory North A14
1/8" = 1'-0"



Exterior Elevation - C Wing - West/North A3
1/8" = 1'-0"

General Notes (Exterior Elevations):

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Finish Legend - Exterior

MATERIAL	DESCRIPTION
MP2A	Metal Panel System - Perforated
MP2B	Metal Panel System - Perforated
MWP01	Metal Rainscreen System - Solid
MWP04	Metal Rainscreen System - Generic

dark grey metal

red brick to match existing

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STATE OF MISSOURI
TODD ALAN AUIT
NUMBER A-2005029072
REGISTERED ARCHITECT

Architectural Corporation
Missouri License No.: 2018022991
Todd Auit — Date: 11/3/2020
Architect — License No. A-2005029072

REVISIONS

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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/14/2021

PROJECT NO: 0119-0100
DATE: November 3, 2020

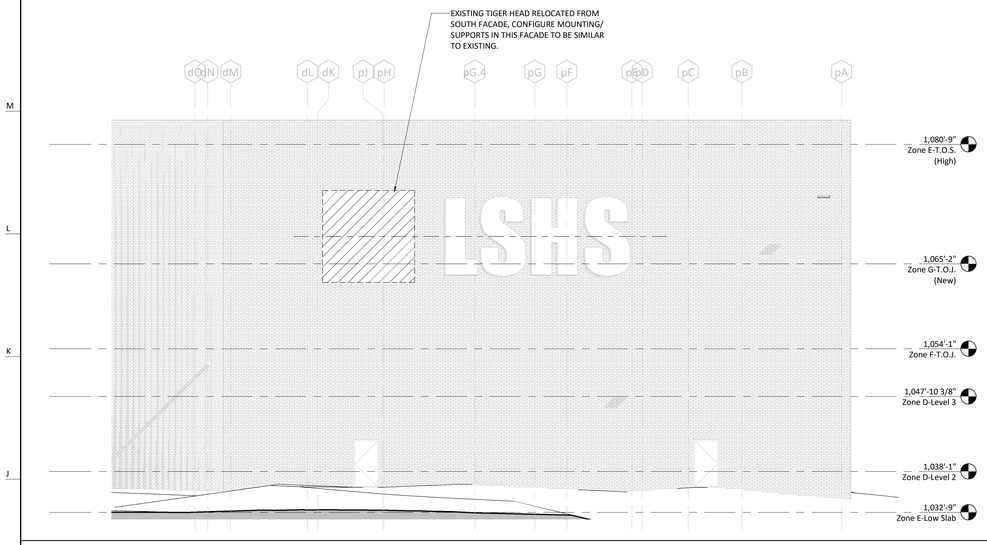
Package 2

Exterior Elevations - C Building

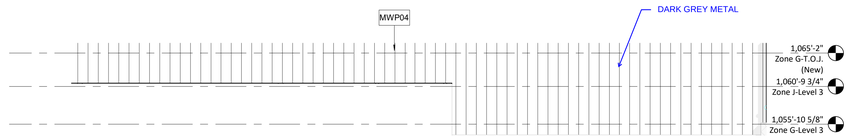
A209

FINAL DEVELOPMENT SET

PRINT DATE/TIME: 11/18/2020 5:56:53 PM



Exterior Elevation - PAC - NE H11
1/8" = 1'-0"



Exterior Elevation - C Building - Pop Up North H3
1/8" = 1'-0"

General Notes (Exterior Elevations):

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Finish Legend - Exterior

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MWP04	Metal Rainscreen System - Generic

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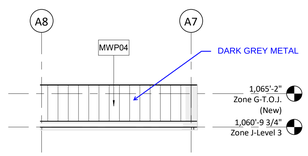
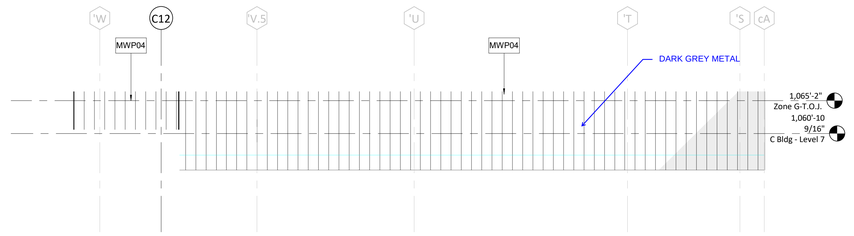
red brick to match existing

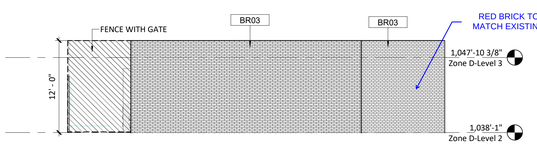
glass



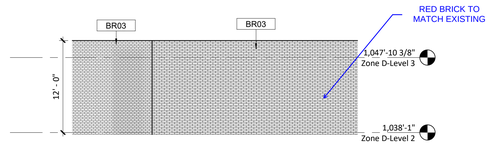
Exterior Elevation - C Building Pop Up - SE E11
1/8" = 1'-0"



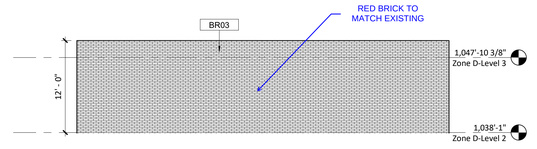
Exterior Elevation - C Building - Pop Up NE E3
1/8" = 1'-0"



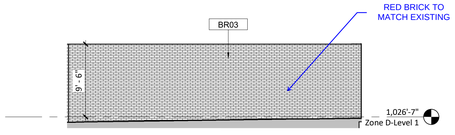
Exterior Elevation - Chiller Yard - South C14
1/8" = 1'-0"



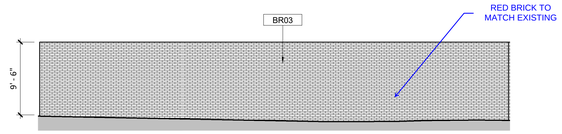
Exterior Elevation - Chiller Yard -East C8
1/8" = 1'-0"



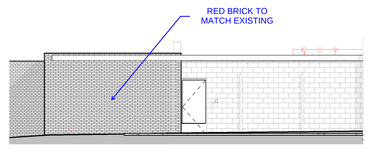
Exterior Elevation - Chiller Yard - North C3
1/8" = 1'-0"



Exterior Elevation - Mech Yard - Northeast A14
1/8" = 1'-0"



Exterior Elevation - Mech Yard - North A8
1/8" = 1'-0"



Exterior Elevation - Mech Yard - East A3
1/8" = 1'-0"

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STATE OF MISSOURI TODD AULT NUMBER A-2005029072 ARCHITECT

Architectural Corporation
Missouri License No.: 2018022991
Todd Ault Date: 11/3/2020
Architect License No. A-2005029072

REVISIONS

Number	DESCRIPTION	DATE

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/14/2021

PROJECT NO: 0119-0100
DATE: November 3, 2020

Package 2

Exterior Elevations - C Building

A210

FINAL DEVELOPMENT SET

SITE PLAN

new greenway connecting innovation classrooms to outdoor learning

new addition:
secure main entry
admin + student services
innovation classrooms
relocated library

expanded parking (throughout)

new press box, ticketing, concessions, restrooms + stands

new courtyard with outdoor learning

new south facade

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

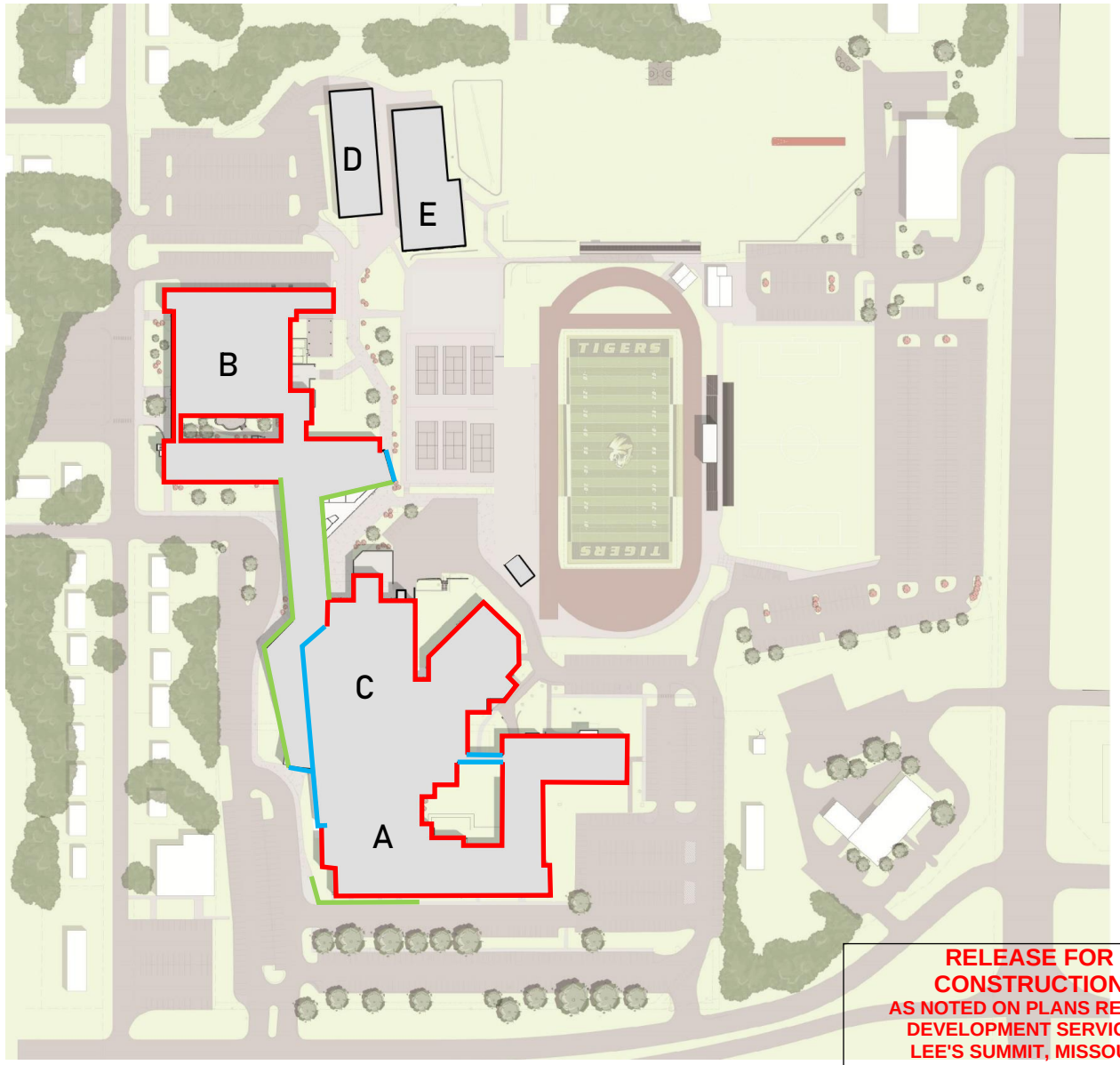
01/14/2021

MATERIAL PLAN

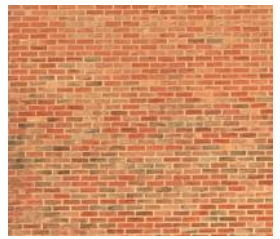
metal panel

brick

glazing



dark grey metal



red brick to match existing

glass

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

01/14/2021

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View 1
Approach From SW Drive

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

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View 2
Visitor Entry

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View 3
North Student Entry

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View 4
Greenway

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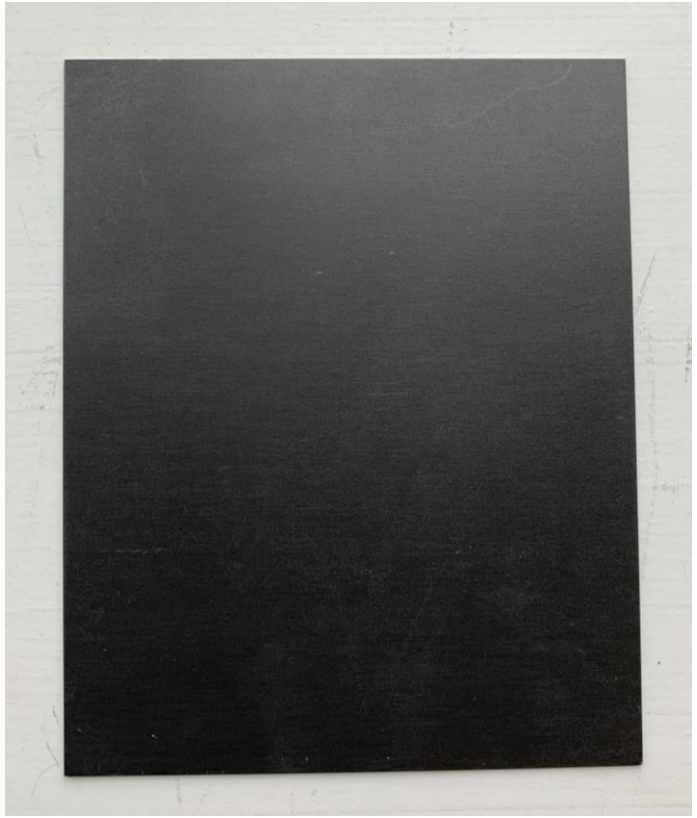
LEE'S SUMMIT, MISSOURI

01/14/2021

METAL PANEL



Actual Panel
Color

Full-Scale
Mockup

Example Project

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

01/14/2021

ELECTRICAL SYMBOLS

THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED.

V3.00

STANDARD MOUNTING HEIGHTS

AUDIBLE APPLIANCES (CENTERLINE)	84"
ALARMS	48"
ANNUNCIATOR PANELS (DISPLAY)	60"
CONTROLS (TOP OF DEVICE)	48"
EXIT SIGNS (WALL MOUNTED)	80"
FIRE ALARM ANNUNCIATOR PANEL (DISPLAY)	60"
FIRE ALARM BELL (EXTERIOR) (CENTERLINE)	120"
FIRE ALARM CONTROL PANEL/UNIT (DISPLAY)	60"
INTERCOM (AFEA ONLY)	36"
INTERCOMS (TOP OF DEVICE)	48"
PULL STATIONS (TOP OF DEVICE)	48"
PHOTOCELLS	144"
RECEPTACLES	16"
RECEPTACLES (EXTERIOR)	24"
RECEPTACLES (GARAGES)	24"
RECEPTACLES (POOLS)	27"
RECEPTACLES (ABOVE COUNTER) +6" ABOVE BACKSPLASH/COUNTER, 40" MAX	
RECEPTACLES IN EQUIPMENT ROOMS	44"
REMOTE INDICATING LIGHT (EQUIPMENT ROOMS)	48"
REMOTE INDICATING LIGHT (FINISHED AREAS)	CEILING
SAFETY SWITCHES (TOP OF DEVICE)	48"
STARTERS (TOP OF DEVICE)	48"
SWITCHES (TOP OF DEVICE)	44"
TELEPHONE, DATA OUTLETS	SAME AS ADJACENT DEVICE, UNO
TELEPHONE TERMINAL BOARD (BOTTOM)	6"
TELEVISION OUTLETS	REFER TO ARCH DRAWINGS
VISIBLE APPLIANCES (CENTERLINE)	84"

INSTALL OUTLET BOXES AT THE MOUNTING HEIGHTS SHOWN ABOVE UNO IN THE CONSTRUCTION DOCUMENTS. MOUNTING HEIGHTS LISTED ABOVE, OR ELSEWHERE IN THE CONSTRUCTION DOCUMENTS, ARE AFF OR AFG TO BOTTOM OF OUTLET BOX, UNO. ALL DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH CURRENT ADA AND LOCAL REQUIREMENTS.

ABBREVIATIONS

AF	AMPERE FUSE SIZE
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CAPACITY
AS	AMPERE SWITCH SIZE
AT	AMPERE TRIP SETTING
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIO VISUAL
BAS	BUILDING AUTOMATION SYSTEM
BKR	BREAKER
C	CONDUIT
CAT	CATEGORY
CATV	CABLE TELEVISION SYSTEM
CCTV	CLOSED CIRCUIT TELEVISION
CD	CANDELA
CKT	CIRCUIT
CODE	APPLICABLE CODE ADOPTED BY JURISDICTION
CT	CURRENT TRANSFORMER
CTR	CENTER
CVD	CUMULATIVE VOLTAGE DROP
D/DEMO	DEMOLITION
DPDT	DOUBLE-POLE, DOUBLE-THROW
DPST	DOUBLE-POLE, SINGLE-THROW
E/ETR/EX	EXISTING TO REMAIN
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EM	EMERGENCY
EMS	ENERGY MANAGEMENT SYSTEM
ELV	ELECTRONIC LOW-VOLTAGE
EWC	ELECTRIC WATER COOLER
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FCA	FAULT CURRENT AMPS AVAILABLE
FCU	FAN COIL UNIT
FF	FINISHED FLOOR
FLA	FULL LOAD AMPS
FLR	FLOOR
GC	GENERAL CONTRACTOR
GEC	GROUNDING ELECTRODE CONDUCTOR
GES	GROUNDING ELECTRODE SYSTEM
GFR	GROUND FAULT RELAY
G	GROUND
IG	ISOLATED GROUND
ISC	SHORT CIRCUIT CURRENT
JB/J-BOX	JUNCTION BOX
LF	LINEAR FEET
LRA	LOCKED ROTOR AMPS
LTG/LTS	LIGHTING/LIGHTS
MAU	MAKE-UP AIR UNIT
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MFR	MANUFACTURER
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MLV	MAGNETIC LOW-VOLTAGE
MOCP	MAXIMUM OVERCURRENT PROTECTION
MTD	MOUNTED
N/A	NOT APPLICABLE
NF	NON-FUSED
NL	NIGHT LIGHT (24HR ON)
NRTL	NATIONALLY RECOGNIZED TESTING LABORATORY (CSA, ETL, NSF, UL)
NTS	NOT TO SCALE
OS	OCCUPANCY SENSOR
P	POLE
PART	PARTIAL CIRCUIT
PH/Ø	PHASE
PNL	PANEL
PNLBD	PANELBOARD
PROVIDE	FURNISH AND INSTALL
PT	POTENTIAL TRANSFORMER
QTY	QUANTITY
R/REL	RELOCATE
RCPT	RECEPTACLE
RLA	RUNNING LOAD AMPS
RTU	ROOFTOP UNIT
SCCR	SHORT-CIRCUIT CURRENT RATING
SD	SMOKE DUCT DETECTOR
SF	SQUARE FEET
SPDT	SINGLE-POLE, DOUBLE-THROW
SPST	SINGLE-POLE, SINGLE-THROW
SSBJ	SUPPLY-SIDE BONDING JUMPER
ST	SHUNT TRIP
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TBD	TO BE DETERMINED
TGB	TELECOMMUNICATIONS GROUND BUS BAR
TL	TWISTLOCK
TMGB	TELECOMMUNICATIONS MAIN GROUND BUS BAR
TX/XFMR	TRANSFORMER
TYP	TYPICAL
U/F	UNDERFLOOR
U/G	UNDERGROUND
U/S	UNDERSLAB
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
VD	VOLTAGE DROP
VFD	VARIABLE FREQUENCY DRIVE
VS	VACANCY SENSOR
W	WIRE
W/	WITH
WP	WEATHER PROOF
WR	WEATHER RESISTANT
WT	WATERTIGHT
XP	EXPLOSION PROOF

LINETYPE LEGEND

THROUGHOUT THE DRAWINGS DIFFERENT LINETYPES ARE USED IN COMBINATION WITH THE SYMBOLS TO INDICATE THE STATUS OF ITEMS AS EXISTING, TO BE DEMOLISHED, TO BE INCLUDED AS PART OF NEW WORK AND/OR ITEMS WHICH ARE ANTICIPATED TO BE PROVIDED IN THE FUTURE. THE STATUS OF ITEMS USING THESE LINETYPES ARE RELATIVE TO THE VIEW IN WHICH THEY APPEAR. PHASING SHOWN IN DRAWINGS IS NOT INTENDED TO FULLY DESCRIBE ALL NECESSARY CONSTRUCTION PHASING, WHICH IS DETERMINED BY THE CONTRACTOR AS PART OF THEIR RESPONSIBILITIES. ANY SUCH PHASES DESCRIBED IN THE CONSTRUCTION DOCUMENTS ARE GENERAL AND ONLY INTENDED TO INDICATE A BROAD ORDER FOR THE SAKE OF DESCRIBING THE PROJECT. THE FOLLOWING LINETYPES MAY BE USED ON ANY DEVICE, EQUIPMENT, NOTE, LINE, SHAPE, ETC.

EXISTING — NEW — EXIST. UGE — FUTURE — DEMOLISH

ANNOTATION

- MECHANICAL OR FIRE PROTECTION PLAN NOTE CALLOUT
- PLUMBING PLAN NOTE CALLOUT
- ELECTRICAL OR FIRE ALARM PLAN NOTE CALLOUT
- TECHNOLOGY PLAN CALLOUT
- PLUMBING EQUIPMENT DESIGNATION. (CONTRACTOR FURNISHED AND INSTALLED). REFER TO PLUMBING FIXTURE OR EQUIPMENT SCHEDULES
- EQUIPMENT DESIGNATION (OWNER FURNISHED, CONTRACTOR INSTALLED)
- CU / 1 — MECHANICAL EQUIPMENT DESIGNATION (CONTRACTOR FURNISHED AND INSTALLED UNLESS NOTED OTHERWISE)
- CONNECTION POINT OF NEW WORK TO EXISTING
- 1 / E1 — DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER
- 1 / E1 — SECTION CUT DESIGNATION

CIRCUITING & WIRING

- 7 5 3 OR P1-3,5,7 [R#] P1 — HOMERUN TO PANELBOARD. INFORMATION AT ARROWS ARE CIRCUIT NUMBERS AND PANELBOARD FOR TERMINATION. REFER TO PANELBOARD SCHEDULES FOR BRANCH CIRCUIT CONDUCTOR SIZES.
  - INDICATES RELAY NUMBER
- CIRCUIT CONTINUATION OR PARTIAL CIRCUIT
- CONDUIT CONCEALED
- EM — CONDUIT CONCEALED (EMERGENCY)
- CONDUIT IN/UNDER FLOOR/GROUND CONSTRUCTION
- EXPOSED CONDUIT
- EM — EXPOSED CONDUIT (EMERGENCY)
- FLEXIBLE CONDUIT
- LOW VOLTAGE CABLE (NOT ROUTED IN CONDUIT)
- CONDUIT TURNING DOWN
- CONDUIT TURNING UP
- CONNECTION POINT OR EQUIPMENT TERMINATION
- EQUIPMENT TERMINATION

CONDUCTOR TICK MARK LEGEND

WHERE TICK MARKS ARE SHOWN, THE FOLLOWING SHALL GOVERN:

- SWITCHED HOT (PHASE) CONDUCTORS (SHOWN TRAILING NEUTRAL)
- NEUTRAL (GROUNDED) CONDUCTOR
- UNSWITCHED HOT (PHASE) CONDUCTORS (SHOWN LEADING NEUTRAL)
- NOTE: HASH MARKS INDICATE QUANTITY OF CONDUCTORS
- EQUIPMENT GROUNDING CONDUCTOR IN CONDUIT (GREEN INSULATION OR BARE)
- ISOLATED GROUNDING CONDUCTOR IN CONDUIT (GREEN INSULATION WITH YELLOW TRACER)

BRANCH CIRCUIT CONDUCTOR TABLE

WHERE TICK MARKS ARE NOT SHOWN, THE FOLLOWING SHALL GOVERN:

# OF POLES	HOT (PHASE)*	NEUTRAL (GROUNDED)**	GROUNDING***
1P	(1)	(1) UNO	(1)
2P	(2)	(1) UNO	(1)
3P	(3)	(1) UNO	(1)

* PROVIDE ADDITIONAL CONDUCTORS THROUGH ENTIRE CIRCUIT (SWITCHED, UNSWITCHED/EM, ETC.) AS INDICATED THROUGHOUT CONSTRUCTION DOCUMENTS AND AS REQUIRED FOR A COMPLETE AND WORKING SYSTEM.

** REFER TO SPECIFICATIONS FOR LIMITATIONS ON SHARING NEUTRAL (GROUNDED) CONDUCTORS. DO NOT CIRCUIT AS A MULTI-WIRE BRANCH CIRCUIT, UNO.

*** PROVIDE ADDITIONAL ISOLATED GROUNDING CONDUCTORS WHERE INDICATED.

REFER TO SPECIFICATIONS, PLANS, NOTES, WIRING AND CONTROL DIAGRAMS FOR ADDITIONAL CIRCUITING REQUIREMENTS.

LIGHTING

- A a — LIGHT FIXTURE
  - a = LOWER CASE LETTER IS SWITCH IDENTIFIER
  - A = UPPER CASE LETTER INDICATES LIGHT FIXTURE TYPE
  - = WALL MOUNT
  - = ARROW INDICATED AIMING DIRECTION
- LIGHT FIXTURE CIRCUITED AS A NIGHT LIGHT (NL)
- EMERGENCY LIGHT FIXTURE WITH EMERGENCY LIGHTING BATTERY PACK OR CONNECTED TO EMERGENCY SOURCE
- NIGHT LIGHT/EMERGENCY LIGHT FIXTURE WITH EMERGENCY BATTERY PACK OR CONNECTED TO EMERGENCY SOURCE
- LIGHT FIXTURE WITH DUAL BALLASTS CIRCUITED SEPARATELY (SHADING IMPLIES EMERGENCY LIGHT FIXTURE)
- [#] — LIGHTING TRACK (# INDICATES RELAY NUMBER)
- MIRROR LIGHTS
- EXTERIOR PARKING LOT LIGHT FIXTURE
- EXTERIOR PEDESTRIAN POST TOP LIGHT FIXTURE
- EXTERIOR LIT BOLLARD LIGHT
- EXIT SIGN - CEILING / WALL MOUNTED, ARROWS AS INDICATED, FACE HATCHED
- EMERGENCY LIGHTING UNIT EQUIPMENT WITH BATTERY PACK - CEILING/WALL MOUNTED
- AFEA (AREA FOR EVACUATION ASSISTANCE) SIGN - CEILING/WALL MOUNTED, ARROWS AS INDICATED

REFER TO LIGHT FIXTURE SCHEDULE FOR MORE INFORMATION

POWER EQUIPMENT & DEVICES

- ELECTRICAL PANELBOARD (SURFACE OR FLUSH MOUNT)
- ELECTRICAL CABINET (SURFACE OR FLUSH MOUNT), TYPE AS NOTED
- PLYWOOD TERMINAL BOARD FOR TELEPHONE SYSTEM, UNO. SIZE AS NOTED
- SWITCHBOARD OR MOTOR CONTROL CENTER ON HOUSEKEEPING PAD
- ELECTRICAL DISTRIBUTION PANELBOARD
- TRANSFORMER
- 200/3/150/3R — DISCONNECT SWITCH - "200/3/150/3R" DENOTES AMPERES/POLE/FUSE/NEMA ENCLOSURE RATING, NF= NON-FUSED, CB= CIRCUIT BREAKER (200/3/CB), NO VALUE (200/3/150) FOR NEMA ENCLOSURE MEANS STANDARD NEMA 1 RATING
- 30/3/15/1/3R — COMBINATION DISCONNECT (SAFETY) SWITCH AND MOTOR STARTER "30/3/15/1/3R" DENOTES AMPERES/POLE/FUSE/NEMA STARTER SIZE/NEMA ENCLOSURE RATING. NF= NON-FUSED, CB= CIRCUIT BREAKER (30/3/CB/1), NO VALUE (200/3/150/1) FOR NEMA ENCLOSURE MEANS STANDARD NEMA 1 ENCLOSURE RATING
- 2 — MAGNETIC MOTOR STARTER, NEMA SIZE AS NOTED. 3-POLE, UNO
- VFD — VARIABLE FREQUENCY DRIVE
- INDICATING LIGHT
- EMERGENCY POWER OFF BUTTON
- STOP-START PUSH BUTTON CONTROL STATION
- HAND-OFF-AUTO PUSH BUTTON CONTROL STATION
- MUSHROOM-TYPE PUSH BUTTON
- OVERHEAD PADDLE FAN

BOXES, LIGHTING CONTROL & WIRING DEVICES

$# — SWITCH LETTER DESIGNATIONS AS FOLLOWS:
- BLANK = SINGLE
- 2 = TWO POLE
- 3 = THREE-WAY
- 4 = FOUR-WAY
- D = DIMMER
- F = FAN SPEED CONTROL
- FH = FRACTIONAL HORSEPOWER MANUAL CONTROLLER
- IH = INTEGRAL HORSEPOWER MANUAL CONTROLLER
- K = KEYED
- LV# = LOW VOLTAGE / DIGITAL
- M = MANUAL MOTOR STARTER DISCONNECT
- OS# = OCCUPANCY SENSOR
- P = SPST PILOT LIGHT
- WP = WEATHER PROOF
- # = REFER TO LIGHTING CONTROL DEVICE SCHEDULE

- ALC — AUTOMATIC LOAD CONTROL RELAY
- BTS — BRANCH CIRCUIT TRANSFER SWITCH
- CEILING / WALL MOUNTED OCCUPANCY SENSOR (# INDICATES TYPE PER SCHEDULE)
  - CORNER 90 DEGREE SENSING
  - ONE-DIRECTION SENSING, CEILING/WALL MOUNT
  - CEILING MOUNT, TWO DIRECTION SENSING
  - CEILING MOUNT, FOUR DIRECTION SENSING
- C# — CONTACTOR (SIZE, COIL VOLTAGE AND NUMBER OF POLES AS INDICATED)
- CL## — TRACK-MOUNTED CURRENT LIMITER (## INDICATES AMPERAGE)
- D# — DAYLIGHT SENSOR (# INDICATES TYPE PER SCHEDULE)
- LC — LIGHTING CONTROLS PROCESSOR AND/OR EQUIPMENT
- P# — POWER PACK (# INDICATES TYPE PER SCHEDULE)
- PS# — PHOTOELECTRIC SWITCH
- R## — ROOM CONTROLLER (# INDICATES TYPE PER SCHEDULE)
- TS# — TIME SWITCH
- SIMPLEX RECEPTACLE - NEMA 5-20R, UNO
- DUPLEX RECEPTACLE - NEMA 5-20R, UNO
- DOUBLE DUPLEX RECEPTACLE - NEMA 5-20R, UNO
- SPECIAL RECEPTACLE - NEMA TYPE AS NOTED
- TWIST-LOCK TYPE RECEPTACLE
- G — BLANK FACE GFCI FEED THROUGH DEVICE
- OR GFCI — GFCI TYPE RECEPTACLE*
- OR IG — ISOLATED GROUND TYPE RECEPTACLE*
- OR EM — EMERGENCY RECEPTACLE*
- RECEPTACLE INSTALLED ABOVE COUNTER OR BACKSPLASH*
- RECEPTACLE INSTALLED IN CEILING*
- RECEPTACLE INSTALLED IN FLOOR*
- RECEPTACLE INSTALLED VIA DROP CORD*

\# — RECEPTACLE LETTER DESIGNATIONS AS FOLLOWS:
- C = AUTOMATICALLY CONTROLLED
- CH = CLOCK HANGER TYPE
- G=RCPT PROTECTED BY GFCI CIRCUIT BREAKER OR UPSTREAM GFCI DEVICE
- H = HORIZONTALLY MOUNTED
- S = MANUALLY CONTROLLED
- SP / TVSS = SURGE PROTECTION
- TR = TAMPER RESISTANT
- TV = TELEVISION
- USB = USB/DUPLEX
- WP = WEATHER PROOF COVER
- WR = WEATHER RESISTANT

- MULTI-OUTLET ASSEMBLY
- TELEPHONE OUTLET
- DATA OUTLET
- MULTI-SERVICE OUTLET; TELEPHONE AND DATA
  - ABOVE COUNTER, TYP
  - WALL, TYP
  - FLOOR, TYP
- A — MULTI-SERVICE POWER POLE WITH TELEPHONE, DATA AND POWER OUTLETS A = TYPE, REFER TO PLANS, SCHEDULES AND SPECIFICATIONS
- A — MULTI-SERVICE FLOOR BOX WITH TELEPHONE, DATA AND POWER OUTLETS A = TYPE, REFER TO PLANS, SCHEDULES AND SPECIFICATIONS
- A — POKE THROUGH, A = TYPE, REFER TO PLANS, SCHEDULES AND SPECIFICATIONS
- T — THERMOSTAT
- J — CEILING/FLOOR MOUNT JUNCTION/OUTLET BOX
- J — WALL MOUNT JUNCTION/OUTLET BOX

* SYMBOL DEMONSTRATED WITH DUPLEX RECEPTACLE, WHEN USED IN COMBINATION WITH OTHER DEVICES MEANING IS SIMILAR FOR THOSE DEVICE TYPES.

REFER TO LIGHTING CONTROL DEVICE SCHEDULE FOR MORE INFORMATION.

ELECTRICAL ONE-LINE & RISER DIAGRAM

- ###A 3P — SWITCH (RATING AS INDICATED)
- ###A 3P — DRAWOUT CIRCUIT BREAKER (RATINGS AS INDICATED)
- ###AS 3P ###AF FRS — FUSED SWITCH (RATING, POLES AND FUSE TYPE AS INDICATED)
- ###AS 3P ###AF FRS NEMA # — COMBINATION FUSED SWITCH/STARTER AND STARTER SIZE
- ###AS 3P FRS NEMA # — CIRCUIT BREAKER (RATINGS AS INDICATED)
- ###A 3P NEMA # — COMBINATION CIRCUIT BREAKER/STARTER AND STARTER SIZE
- PANELBOARD, SINGLE OR MULTI-SECTION (REFER TO SCHEDULES)
- ISOLATED POWER PANELBOARD W/ INTEGRAL TRANSFORMER (REFER TO SCHEDULES)
- TX## — TRANSFORMER (TYPE AND RATINGS AS INDICATED)
- TX## — SHIELDED TRANSFORMER (TYPE AND RATINGS AS INDICATED)
- ATS# ###A ATS# (W/BYPASS) — AUTOMATIC TRANSFER SWITCH (RATINGS AS INDICATED)
- ATS# (W/BYPASS) ###A — AUTOMATIC TRANSFER SWITCH WITH BYPASS (RATINGS AS INDICATED)
- ##KW GENERATOR 480Y/277V, 3Ø, 4W ###A, 3P M/G — GENERATOR (RATINGS AS INDICATED)
  - NON-SEPARATELY DERIVED SOURCE OR SEPARATELY DERIVED SOURCE
- MDP SWITCHBOARD ELEC ROOM ### AMPS 480Y/277V 3Ø 4W — SWITCHGEAR, SWITCHBOARD AND/OR DISTRIBUTION PANELBOARD (TYPE, RATING, DEVICES AND ACCESSORIES AS INDICATED)
- DIGITAL VM AM — COMBINATION DIGITAL VOLT METER/AMMETER
- ### — CIRCUIT IDENTIFICATION (REFER TO CIRCUIT SCHEDULE)
- GFR — GROUND FAULT RELAY
- PFR — PHASE FAILURE RELAY
- KK# — KIRK-KEY INTERLOCK (# INDICATES KEY PAIR)
- ST — SHUNT TRIP
- AM — AMMETER (RANGE AS SPECIFIED OR REQUIRED)
- VM — VOLTMETER (RANGE AS SPECIFIED OR REQUIRED)
- UTILITY METER M — UTILITY METER (AS REQUIRED BY UTILITY)
- AS — AMMETER SWITCH
- VS — VOLTMETER SWITCH
- WH D 15 — WATT-HOUR METER, "D" DENOTES DEMAND REGISTER, "15" DENOTES MINUTES OF DEMAND INTERVAL
- CURRENT TRANSFORMER RATING AS SPECIFIED OR REQUIRED
- POTENTIAL TRANSFORMER RATING AS SPECIFIED OR REQUIRED
- SPD — SURGE-PROTECTIVE DEVICE
- GROUND CONNECTION
- GROUND CONNECTION WITH TEST WELL
- GROUND ROD
- LIGHTNING ARRESTER
- CAPACITOR
- CONTACT (OPEN OR CLOSED)
- HEATER
- HP — MOTOR
- ## — BLOCK LOAD KW OR KVA
- F# FP# — FAULT POINT REFERENCED IN SHORT CIRCUIT CURRENT AND VOLTAGE DROP SPREADSHEET

GENERAL NEW CONSTRUCTION NOTES:

1. READ THE SPECIFICATIONS AND REVIEW DRAWINGS OF ALL DIVISIONS OF WORK. COORDINATE THIS WORK WITH ALL OTHER DIVISIONS OF WORK AND ALL SUBCONTRACTORS. PROVIDE ALL SUBCONTRACTORS WITH A COMPLETE SET OF BID DOCUMENTS.
2. DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT THE GENERAL SCOPE OF THE WORK. REVIEW GENERAL NOTES, SPECIFICATIONS AND PLANS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS.
3. DRAWINGS AND SPECIFICATIONS GOVERN, WHERE THEY EXCEED CODE REQUIREMENTS.
4. FIELD VERIFY EXACT LOCATION AND ELECTRICAL REQUIREMENTS OF ALL HVAC AND PLUMBING EQUIPMENT WITH OTHER TRADE CONTRACTORS PRIOR TO ORDERING RELATED ELECTRICAL EQUIPMENT. VERIFY REQUIREMENTS OF ALL MECHANICAL AND PLUMBING EQUIPMENT WITH SHOP DRAWING SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS
5. VERIFY ROUGH-IN REQUIREMENTS, LOCATIONS, MOUNTING HEIGHTS, VOLTAGE, PHASE, AMPS, HP, KW, NEMA RATING, ETC. FOR ALL KITCHEN EQUIPMENT, LIGHTING, HVAC AND PLUMBING EQUIPMENT BEFORE PROVIDING ROUGH-IN.
6. ALL 125 V, SINGLE-PHASE RECEPTACLES UP TO 50A, AND THREE-PHASE RECEPTACLES UP TO 100A, IN KITCHEN AREAS SHALL BE GFCI PROTECTED.
7. ALL GFCI PROTECTED CIRCUITS SHALL HAVE INDIVIDUAL AND DEDICATED NEUTRALS.
8. UNLESS OTHERWISE NOTED, ALL CIRCUITRY SHALL BE #12 AWG IN 1/2" CONDUIT. HOMERUNS SHALL BE IN MINIMUM OF 3/4" CONDUIT UNLESS NOTED OTHERWISE.
9. PROVIDE A SEPARATE CODE SIZED GREEN EQUIPMENT GROUND CONDUCTOR IN ALL CONDUITS AND RACEWAYS CONTAINING LINE VOLTAGE CIRCUITS. FOR ALL 20A CIRCUITS, EQUIPMENT GROUND CONDUCTOR SIZE SHALL MATCH PHASE CONDUCTOR SIZE. FOR CIRCUITS UPSIZED FOR VOLTAGE DROP INCREASE EQUIPMENT GROUNDING CONDUCTOR SIZE PER CODE.
10. ROOM NAMES/NUMBERS SHOWN IN PANELBOARD SCHEDULES ARE PER ARCHITECTURAL FLOOR PLANS. CONTRACTOR SHALL PROVIDE FINALIZED PANELBOARD SCHEDULES AT COMPLETION OF PROJECT WITH OWNER PROVIDED ROOM NAMES/NUMBERS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
11. PROVIDE A MINIMUM OF (4) SPARE 1" CONDUITS FROM RECESSED PANELBOARD, UP TO ACCESSIBLE CEILING SPACE.
12. TYPE MC CABLE MAY BE USED WITHIN PARTITION WALLS FOR BRANCH CIRCUIT DROPS TO DEVICES. USE CONDUIT AND WIRE FOR ALL BRANCH CIRCUIT HOMERUNS. MC CABLE SHALL NOT BE RUN IN CEILING SPACE IN LENGTHS EXCEEDING SIX FEET.
13. FURNISH AND INSTALL DISCONNECT SWITCHES, INTERLOCKS, CONDUIT, WIRING, RECEPTACLES, CORDS, AND PLUGS, AND INSTALL AS SPECIFICALLY OUTLINED WITHIN THE FOOD SERVICE CONSULTANT DRAWINGS. VERIFY REQUIREMENTS WITH EQUIPMENT SUPPLIER. PROVIDE ALL NECESSARY ITEMS TO MEET THE EQUIPMENT'S ELECTRICAL INSTALLATION REQUIREMENTS.
14. WHERE FEEDERS AND BRANCH CIRCUITS ARE SHOWN UPSIZED FOR VOLTAGE DROP AND THE CONDUCTOR SIZE IS TOO LARGE FOR EQUIPMENT LUGS, CONTRACTOR SHALL PROVIDE JUNCTION BOX AS CLOSE AS POSSIBLE TO EQUIPMENT AND REDUCE CONDUCTOR SIZE TO MEET LUG REQUIREMENTS BUT NOT SMALLER THAN NEC REQUIREMENTS ALLOW FOR OVERCURRENT PROTECTION AMPACITIES SHOWN.
15. PROVIDE A CONSTRUCTION RECORD SET OF "AS-BUILT" DOCUMENTS TO THE ARCHITECT REFLECTING ANY VARIANCES OF INSTALLED PIPING, EQUIPMENT DEVICES, ETC. LOCATIONS CONTRARY TO THE CONSTRUCTION DOCUMENTS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
16. INSTALLATION SHALL COMPLY WITH LEGALLY CONSTITUTED CODES AND THE REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION.
17. RACEWAYS WHERE INSTALLED AT EXPOSED STRUCTURE: PROVIDE RIGID CONDUIT FOR LINE VOLTAGE AND LOW VOLTAGE CABLING. PAINT TO MATCH SURROUNDING CEILING AND STRUCTURE. PROVIDE CONDUIT PARALLEL TO STRUCTURE LINES IN A NEAT MANNER.ROUTE TIGHT TO STRUCTURAL SLAB, JOISTS, OR BEAMS. ROUTE TO CONCEAL FROM VIEW WHERE POSSIBLE. COORDINATE GENERAL ROUTING GUIDELINES WITH ARCHITECT AND ENGINEER PRIOR TO COMMENCEMENT OF WORK.
18. WHERE DEVICES ARE MOUNTED RECESSED IN CMU WALLS, ROUTE CONDUIT CONCEALED WITHIN INTERIOR OPENINGS WITHIN CMU WALL. COORDINATE WITH GENERAL CONTRACTOR PRIOR TO ROUGH-IN.
19. USE METALLIC SURFACE MOUNTED RACEWAY FOR NEW POWER/TELECOM DEVICES ON EXISTING BLOCK WALLS.
20. ALL CEILING MOUNTED DEVICES INSTALLED IN ACOUSTICAL TILE CEILING SHALL BE CENTERED WITHIN ACOUSTICAL TILE.
21. ALL DEVICES SHOWN DIRECTLY ADJACENT TO EACH OTHER SHALL BE INSTALL DIRECTLY ADJACENT TO EACH OTHER. ADJACENT DEVICES OF SIMILAR TYPE SHALL BE PROVIDED WITH SINGLE FACEPLATE WHERE FEASIBLE.
22. DEVICES SHOWN BACK-TO-BACK SHALL BE OFFSET A MINIMUM OF 12" TO REDUCE SOUND TRANSMISSION BETWEEN ROOMS.
23. ALL JUNCTION BOXES SHALL BE RIGIDLY ATTACHED TO STRUCTURE OR MILLWORK.
24. REFER TO ARCHITECTURAL PLANS AND DETAILS FOR EXACT LOCATIONS, ALIGNMENT AND MOUNTING OF ALL CEILING, WALL AND FLOOR MOUNTED DEVICES.
25. CONDUIT AND BOX ROUGH-IN FOR ADJACENT FIRE ALARM, TEMPERATURE CONTROLS, RECEPTACLES, LIGHTING CONTROL DEVICES, ETC. ON THE SAME WALL, SHALL BE PROVIDED IN A MANNER TO WHICH DEVICES ALIGN VERTICALLY ON SAME WALL. COORDINATE WITH OTHER TRADES.
26. COORDINATE CONDUIT PENETRATIONS THROUGH SLABS WITH STRUCTURAL DOCUMENTS. CONDUITS ARE NOT TO BE ROUTED WITHIN THE COMPOSITE SLAB.
27. WHERE SPARE CONDUIT(S) ARE INDICATED FOR FUTURE USE, PROVIDE PULL STRINGS IN CONDUIT(S) AND PROTECTIVE BUSHINGS AT OPENINGS. CAP CONDUITS WHERE LOCATED BELOW GRADE OR EXPOSED TO THE ELEMENTS.
28. REFER TO MECHANICAL EQUIPMENT SCHEDULES FOR ELECTRICAL SCOPE OF WORK, IN ADDITION TO WORK SHOWN ON ELECTRICAL DRAWINGS.
29. PROVIDE CONCEALED CONDUIT AND RECESSED OUTLET BOXES FOR ALL HVAC CONTROL LOCATIONS. PROVIDE CONDUIT FOR ALL CONTROL WIRING LOCATED IN SPACES WITH EXPOSED CEILINGS. REFER TO MECHANICAL DOCUMENTS AND SCHEDULES FOR ALL DEVICE LOCATIONS. COORDINATE WORK WITH MECHANICAL CONTRACTOR.
30. PROVIDE ALL MISCELLANEOUS STEEL REQUIRED FOR THE PROPER INSTALLATION OF ELECTRICAL EQUIPMENT AND SYSTEMS.
31. PROVIDE RECESSED OUTLET BOX AND CONCEALED CONDUIT FOR ALL TELECOMMUNICATIONS OUTLET LOCATIONS. PROVIDE CONDUIT FOR ALL TELECOMMUNICATIONS WIRING LOCATED IN SPACES WITH EXPOSED CEILINGS. REFER TO TELECOMMUNICATIONS DRAWINGS FOR OUTLET LAYOUTS. COORDINATE ALL WORK WITH TELECOMMUNICATIONS CONTRACTOR.
32. REFER TO SPECIFICATIONS AND DETAILS FOR APPROVED CABLE AND RACEWAY INSTALLATION. NON-COMPLIANT INSTALLATIONS OF CABLE AND RACEWAY WILL NOT BE ACCEPTED AND WILL BE REQUIRED TO BE BROUGHT TO COMPLIANCE AT NO COST TO THE OWNER, PRIOR TO COMPLETION OF WORK.
33. ALL NEW AND EXISTING ELECTRICAL EQUIPMENT ALTERED UNDER THIS PROJECT SHALL BE VACUUM CLEANED OF ANY DEBRIS. ALL OPENINGS REMAINING SHALL BE SEALED WITH THE PROPER DEVICE (I.E. KNOCKOUT BLANKS, BREAKER BLANKS, ETC.) LISTED AND APPROVED FOR USE.
34. NO WORK SHALL BE PERFORMED PRIOR TO REVIEW AND APPROVAL OF ALL REQUIRED SHOP DRAWINGS, PRODUCT MATERIALS, AND EQUIPMENT SUBMITTALS. ANY WORK INSTALLED PRIOR TO MEETING THESE REQUIREMENTS SHALL BE DONE SO AT THE SOLE RISK OF THE CONTRACTOR.
35. PROVIDE UPDATED TYPED PANEL DIRECTORIES TO REFLECT WORK PERFORMED UNDER THIS CONTRACT.
36. PROVIDE A NEUTRAL CONDUCTOR TO THREE-PHASE EQUIPMENT WHERE REQUIRED BY THE MANUFACTURER.
37. ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT SHALL BE PROVIDED WITH A CONCRETE HOUSEKEEPING PAD. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
38. GROUND AND NEUTRAL CONDUCTORS SHALL NOT BE SHARED UNLESS SPECIFICALLY NOTED ON PLANS.
39. REFER TO VARIABLE FREQUENCY DRIVE (VFD) INSTALLATION INSTRUCTIONS FOR POWER AND CONTROL WIRING REQUIREMENTS. PVC CONDUIT SHALL NOT BE USED FOR VFD WIRING. PROVIDE SPECIAL POWER VFD SHIELDED CABLE OR INDIVIDUAL STEEL CONDUIT RUNS WITH POWER CONDUCTORS AND GROUNDING CONDUCTOR TO EACH MOTOR. CONTROL WIRING SHALL BE ROUTED IN A SEPARATE CONDUIT AND SEPARATED FROM MOTOR WIRING BY A MINIMUM OF 3 FEET PER MANUFACTURER'S INSTRUCTIONS.
40. WALL AND CEILING MOUNTED EXIT SIGNS, SHOWN ABOVE DOORS, SHALL BE CENTERED WITHIN DOOR(S).
41. CEILING MOUNTED EXIT SIGNS IN AREAS WITH EXPOSED OR OPEN CEILINGS ARE TO BE PENTANT MOUNTED AND SUSPENDED CLEAR FROM ADJACENT EQUIPMENT TO MAINTAIN CLEAR SIGHT LINES. CONFIRM FINAL MOUNTING HEIGHT(S) WITH ARCHITECT PRIOR TO ROUGH-IN.
42. PROVIDE A NEUTRAL CONDUCTOR TO ALL WALL MOUNTED LIGHT SWITCH LOCATIONS. IF NEUTRAL TERMINATION IS NOT REQUIRED, CAP CONDUCTOR AND TAG AS "NEUTRAL FOR FUTURE USE".
43. COORDINATE SETTINGS AND ADJUST SENSORS WHEREVER NECESSARY FOR PROPER LIGHTING CONTROL IN ALL SPACES. ALL CEILING MOUNTED OCCUPANCY SENSORS SHALL NOT BE INSTALLED WITHIN FOUR FEET OF ANY CEILING MOUNTED PROJECTOR OR DIFFUSER. DAYLIGHT SENSORS SHALL BE LAYED OUT ON A FLOOR PLAN BY THE MANUFACTURER AND SUBMITTED TO THE ENGINEER PRIOR TO INSTALLATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSTALL SENSORS AT A LOCATION APPROVED BY THE MANUFACTURER.
44. ALL LIGHTING CONTROL, INCLUDING OCCUPANCY SENSORS AND RELAY CONTROL PANEL SETTINGS, SHALL BE COORDINATED WITH OWNER PRIOR TO COMPLETION OF WORK. CONTROLS SHALL BE TESTED AND FULLY COMMISSIONED. COORDINATE ALL LIGHTING CONTROL LOCATIONS WITH OWNER PRIOR TO ROUGH-IN.
45. REQUEST DIMENSIONED LOCATIONS OF ALL FLOOR DEVICES FROM ARCHITECT PRIOR TO ROUGH-IN.
46. PROVIDE 120V CONNECTION AT ALL SMOKE DAMPERS AND COMBINATION FIRE/SMOKE DAMPERS (PROVIDED BY DIVISION 23). COORDINATE WORK WITH MECHANICAL CONTRACTOR.
47. REFER TO FIRE ALARM, TECHNOLOGY, AV AND SECURITY DRAWINGS FOR ADDITIONAL ROUGH-IN AND POWER REQUIREMENTS NOT SHOWN ON THE ELECTRICAL DRAWINGS.
48. ALL FLOOR BOXES SHALL BE PROVIDED WITH AT MINIMUM A DUPLEX RECEPTACLE U.N.O ON THE DRAWINGS OR SPECIFICATIONS.
49. PROVIDE A LIGHTNING PROTECTION SYSTEM FOR THE MAIN SCHOOL BUILDING. REFER TO SPECIFICATION SECTION 264113 FOR INFORMATION ON LIGHTNING PROTECTION SYSTEM AND INSTALLATION REQUIREMENTS.
50. CONFIRM ALL RECEPTACLE LOCATIONS FOR TV, PROJECTOR, AND GENERAL PURPOSE POWER WITH FINAL FURNITURE AND ROOM LAYOUT. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO ROUGH-IN.
51. ALL LIGHTING CONTROL WALL STATIONS (I.E. SWITCHES) ARE TO BE LABELED WITH MANUFACTURER-PROVIDED ENGRAVING AS DESCRIBED ON DRAWINGS UNLESS NOTED OTHERWISE. REFER TO LIGHTING CONTROL ELEVATIONS, SCHEDULES, AND DETAILS FOR ADDITIONAL INFORMATION.

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STATE OF MISSOURI — DOUGLAS M. EVERHART — NUMBER PE-2019007648 — PROFESSIONAL ENGINEER

Dec 28 2020

DOUGLAS M. EVERHART
LICENSE # PE-2019007648
1950004111
MO. CORPORATE NO: E-556D
EXPIRES 12/31/2021

REVISIONS

Number	DESCRIPTION	DATE

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/14/2021

PROJECT NO: 0119-0100
DATE: December 29, 2020

Package 2

ELECTRICAL GENERAL NOTES AND LEGEND

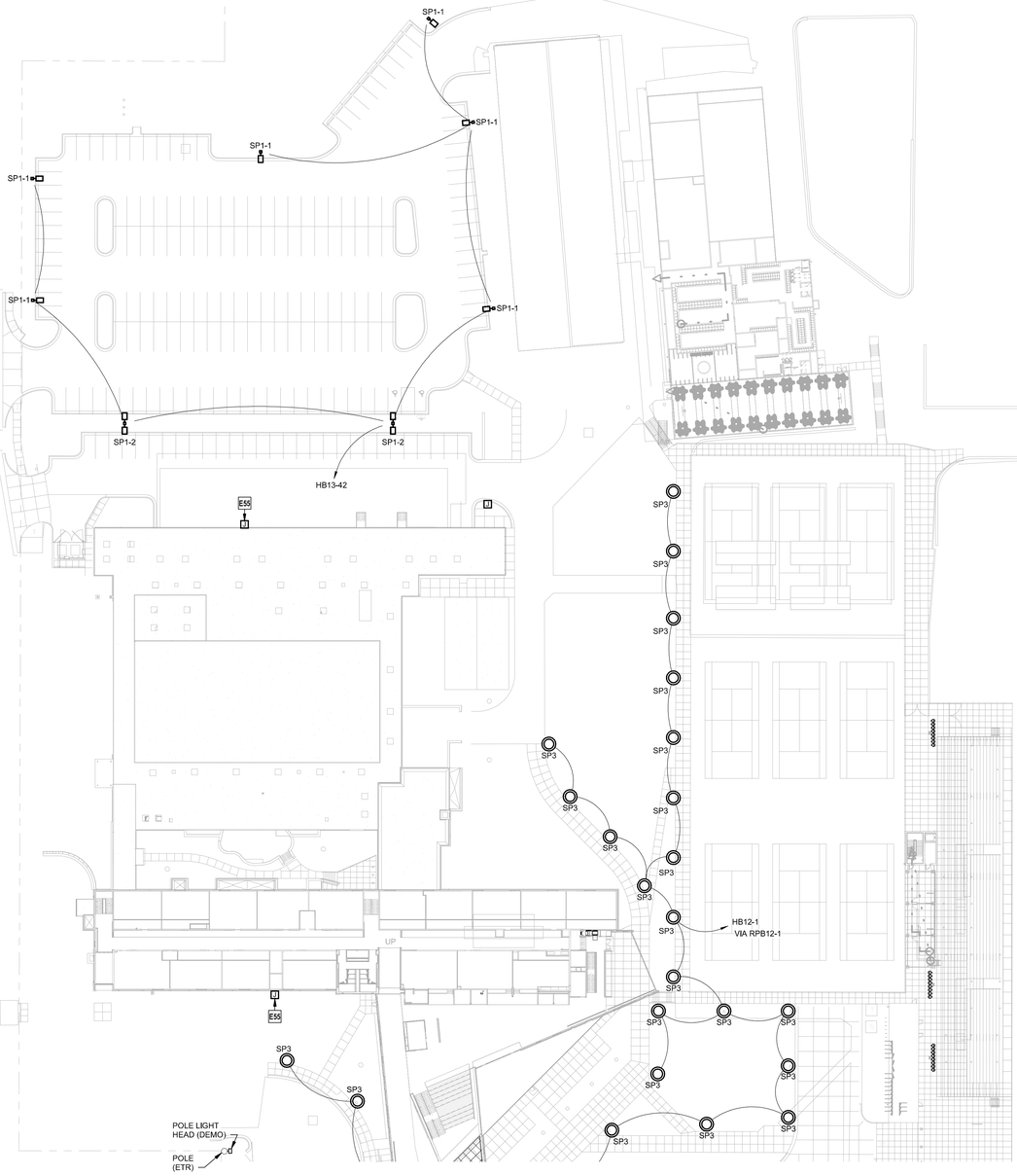
E000

Issued for Construction

DOUGLAS M. EVERHART

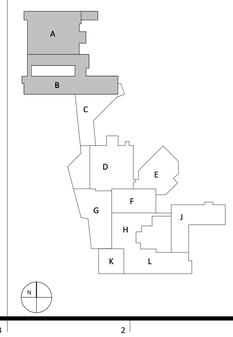
ELECTRICAL PLAN NOTES:

E55 PROVIDE NEMA 3R ENCLOSURE FOR MOUNTING OF EXTERIOR WIRELESS LIGHTING CONTROL ANTENNA/ADAPTER HIGH ON EXTERIOR OF BUILDING. ALIGN ENCLOSURE WITH BUILDING LINES. DEVICE TO BE MOUNTED TO ENCLOSURE IN MANNER RECOMMENDED BY MANUFACTURER INSTALLATION INSTRUCTIONS. PROVIDE PATHWAY AND CONNECTION FROM ANTENNA TO LIGHTING CONTROL PANEL OR PROCESSOR AS REQUIRED BY MANUFACTURER. CONFIRM DEVICE LAYOUT SHOWN ON PLANS MEETS MANUFACTURER REQUIREMENTS AND NOTIFY ENGINEER IF ADDITIONAL DEVICES ARE REQUIRED.



1 ELECTRICAL SITE LIGHTING PLAN - NORTH
1" = 40'-0"

Key Plan:



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STATE OF MISSOURI
DOUGLAS M. EVERHART
NUMBER PE-2019007648
PROFESSIONAL ENGINEER

Dec 28 2020
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LICENSE # PE-2019007648
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MO. CORPORATE NO. E-556D
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Package 2

SITE LIGHTING PLAN NORTH

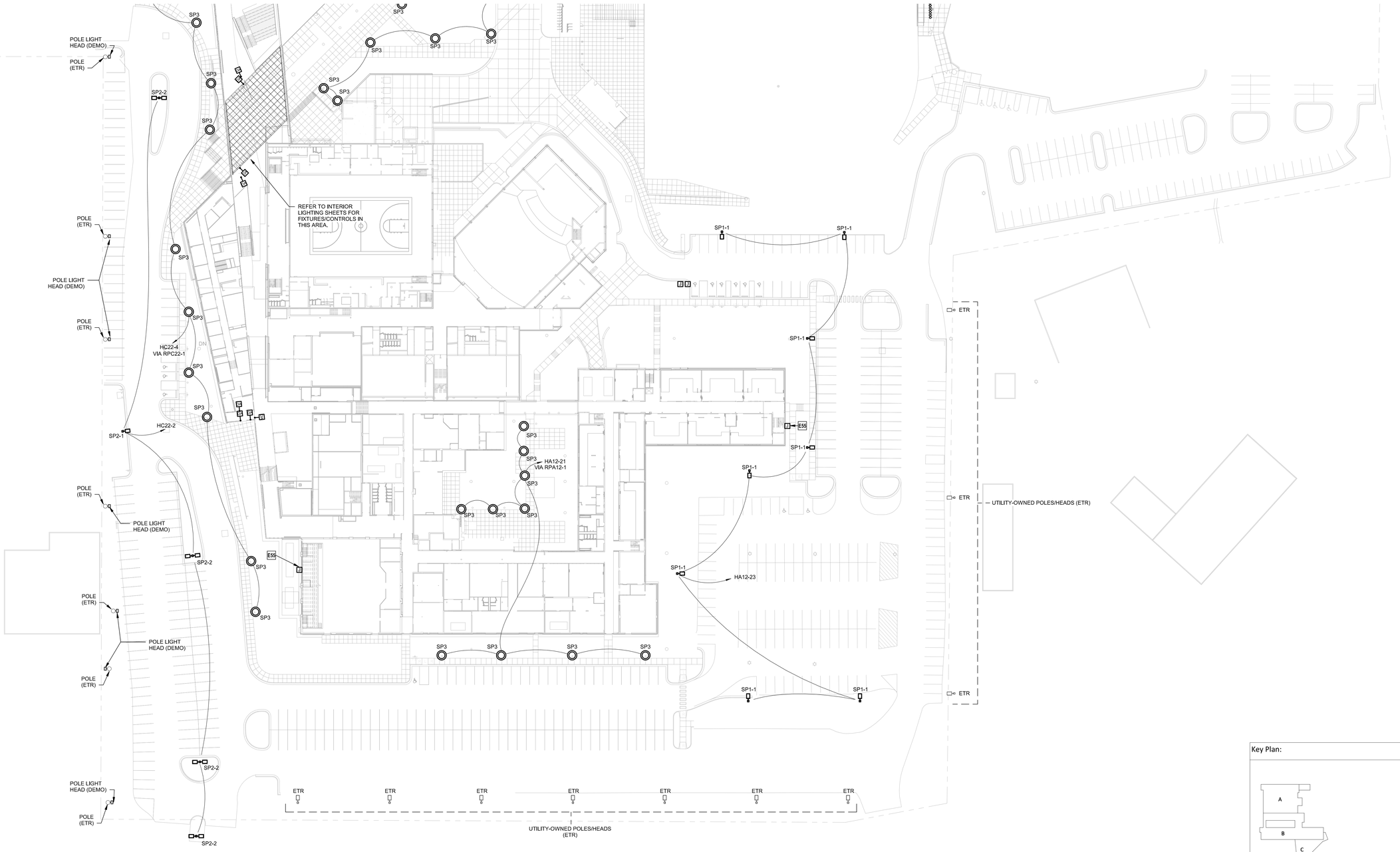
E003

Issued for Construction

DOUGLAS M. EVERHART

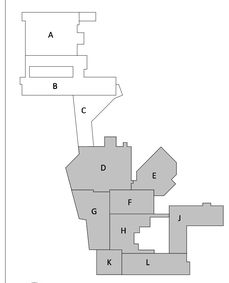
ELECTRICAL PLAN NOTES:

E55 PROVIDE NEMA 3R ENCLOSURE FOR MOUNTING OF EXTERIOR WIRELESS LIGHTING CONTROL ANTENNA/ADAPTER HIGH ON EXTERIOR OF BUILDING. ALIGN ENCLOSURE WITH BUILDING LINES. DEVICE TO BE MOUNTED TO ENCLOSURE IN MANNER RECOMMENDED BY MANUFACTURER INSTALLATION INSTRUCTIONS. PROVIDE PATHWAY AND CONNECTION FROM ANTENNA TO LIGHTING CONTROL PANEL OR PROCESSOR AS REQUIRED BY MANUFACTURER. CONFIRM DEVICE LAYOUT SHOWN ON PLANS MEETS MANUFACTURER REQUIREMENTS AND NOTIFY ENGINEER IF ADDITIONAL DEVICES ARE REQUIRED.



1 ELECTRICAL SITE LIGHTING PLAN - SOUTH
1" = 40'-0"

Key Plan:



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MO. CORPORATE NO: E-555D
EXPIRES 12/31/2021

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PROJECT NO: 0119-0100
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Package 2

SITE LIGHTING PLAN SOUTH

E004

Issued for Construction

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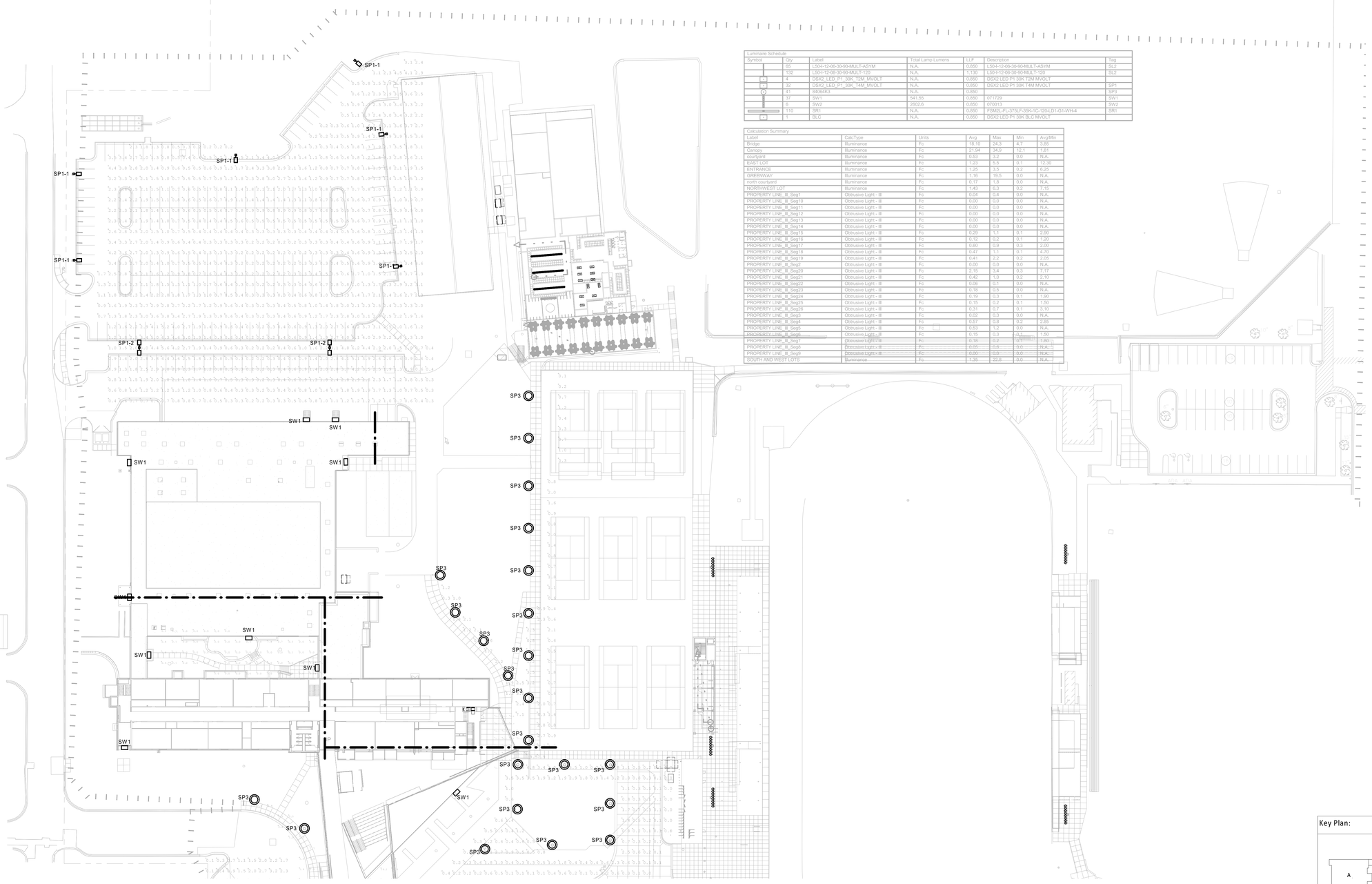


Luminaire Schedule

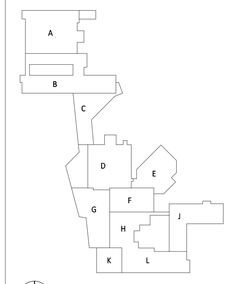
Symbol	Qty	Label	Total Lamp Lumens	LLF	Description	Tag
	65	LS04-12-06-30-90-MULT-ASYM	N.A.	0.850	LS04-12-06-30-90-MULT-ASYM	SL2
	132	LS04-12-08-30-90-MULT-120	N.A.	1.130	LS04-12-06-30-90-MULT-120	SL2
	4	DSX2_LED_P1_30K_T2M_MVOLT	N.A.	0.850	DSX2 LED P1 30K T2M MVOLT	
	32	DSX2_LED_P1_30K_T4M_MVOLT	N.A.	0.850	DSX2 LED P1 30K T4M MVOLT	SP1
	41	9406HK3	N.A.	0.850		SP3
	37	SW1	541.55	0.850	071729	SW1
	6	SW2	2602.6	0.850	070013	SW2
	110	SR1	N.A.	0.850	FSM2L-FL-375LF-35K-1C-120-LD1-G1-WH-4	SR1
	1	BLC	N.A.	0.850	DSX2 LED P1 30K BLC MVOLT	

Calculation Summary

Label	CalcType	Units	Avg	Max	Min	Avg/Min
Bridge	Illuminance	Fc	18.10	24.3	4.7	3.85
Canopy	Illuminance	Fc	21.94	34.9	12.1	1.81
courtyard	Illuminance	Fc	0.53	3.2	0.0	N.A.
EAST LOT	Illuminance	Fc	1.23	5.5	0.1	12.30
ENTRANCE	Illuminance	Fc	1.25	3.5	0.2	6.25
GREENWAY	Illuminance	Fc	1.16	19.5	0.0	N.A.
north courtyard	Illuminance	Fc	0.17	1.8	0.0	N.A.
NORTHWEST LOT	Illuminance	Fc	1.43	6.3	0.2	7.15
PROPERTY LINE_lll_Seg1	Obtrusive Light - lll	Fc	0.04	0.4	0.0	N.A.
PROPERTY LINE_lll_Seg10	Obtrusive Light - lll	Fc	0.00	0.0	0.0	N.A.
PROPERTY LINE_lll_Seg11	Obtrusive Light - lll	Fc	0.00	0.0	0.0	N.A.
PROPERTY LINE_lll_Seg12	Obtrusive Light - lll	Fc	0.00	0.0	0.0	N.A.
PROPERTY LINE_lll_Seg13	Obtrusive Light - lll	Fc	0.00	0.0	0.0	N.A.
PROPERTY LINE_lll_Seg14	Obtrusive Light - lll	Fc	0.00	0.0	0.0	N.A.
PROPERTY LINE_lll_Seg15	Obtrusive Light - lll	Fc	0.29	1.1	0.1	2.90
PROPERTY LINE_lll_Seg16	Obtrusive Light - lll	Fc	0.12	0.2	0.1	1.20
PROPERTY LINE_lll_Seg17	Obtrusive Light - lll	Fc	0.60	0.9	0.3	2.00
PROPERTY LINE_lll_Seg18	Obtrusive Light - lll	Fc	0.47	1.1	0.1	4.70
PROPERTY LINE_lll_Seg19	Obtrusive Light - lll	Fc	0.41	2.2	0.2	2.05
PROPERTY LINE_lll_Seg2	Obtrusive Light - lll	Fc	0.00	0.0	0.0	N.A.
PROPERTY LINE_lll_Seg20	Obtrusive Light - lll	Fc	2.15	3.4	0.3	7.17
PROPERTY LINE_lll_Seg21	Obtrusive Light - lll	Fc	0.42	1.0	0.2	2.10
PROPERTY LINE_lll_Seg22	Obtrusive Light - lll	Fc	0.08	0.1	0.0	N.A.
PROPERTY LINE_lll_Seg23	Obtrusive Light - lll	Fc	0.18	0.5	0.0	N.A.
PROPERTY LINE_lll_Seg24	Obtrusive Light - lll	Fc	0.19	0.3	0.1	1.90
PROPERTY LINE_lll_Seg25	Obtrusive Light - lll	Fc	0.19	0.2	0.1	1.90
PROPERTY LINE_lll_Seg26	Obtrusive Light - lll	Fc	0.31	0.7	0.1	3.10
PROPERTY LINE_lll_Seg3	Obtrusive Light - lll	Fc	0.02	0.3	0.0	N.A.
PROPERTY LINE_lll_Seg4	Obtrusive Light - lll	Fc	0.57	0.8	0.2	2.85
PROPERTY LINE_lll_Seg5	Obtrusive Light - lll	Fc	0.53	1.2	0.0	N.A.
PROPERTY LINE_lll_Seg6	Obtrusive Light - lll	Fc	0.15	0.3	0.1	1.50
PROPERTY LINE_lll_Seg7	Obtrusive Light - lll	Fc	0.18	0.2	0.1	1.80
PROPERTY LINE_lll_Seg8	Obtrusive Light - lll	Fc	0.05	0.0	0.0	N.A.
PROPERTY LINE_lll_Seg9	Obtrusive Light - lll	Fc	0.00	0.0	0.0	N.A.
SOUTH AND WEST LOTS	Illuminance	Fc	1.35	22.8	0.0	N.A.

1 ELECTRICAL SITE PHOTOMETRIC PLAN - NORTH
1" = 40'-0"

Key Plan:



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Lee's Summit High School

400 SE Blue Pkwy
Lee's Summit, MO 64063

owner:
Lee's Summit R-7 School District
123 Anystreet
Lee's Summit, MO 64086

architect:
Gould Evans
4200 Pennsylvania Avenue
Kansas City, MO 64111
816.931.6655 voice
www.gouldevans.com

structural engineer:
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4338 Belleview
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civil engineer:
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14700 West 114th Terrace
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913.485.0318

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1950004111
MO. CORPORATE NO: E-556D
EXPIRES 12/31/2020

STATE OF MISSOURI
DOUGLAS M. EVERHART
NUMBER PE-2019007648
PROFESSIONAL ENGINEER

Nov 20 2020

DOUGLAS M. EVERHART
LICENSE # PE-2019007648

REVISIONS

Number	DESCRIPTION	DATE

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/14/2021

PROJECT NO: 0119-0100
DATE: November 20, 2020

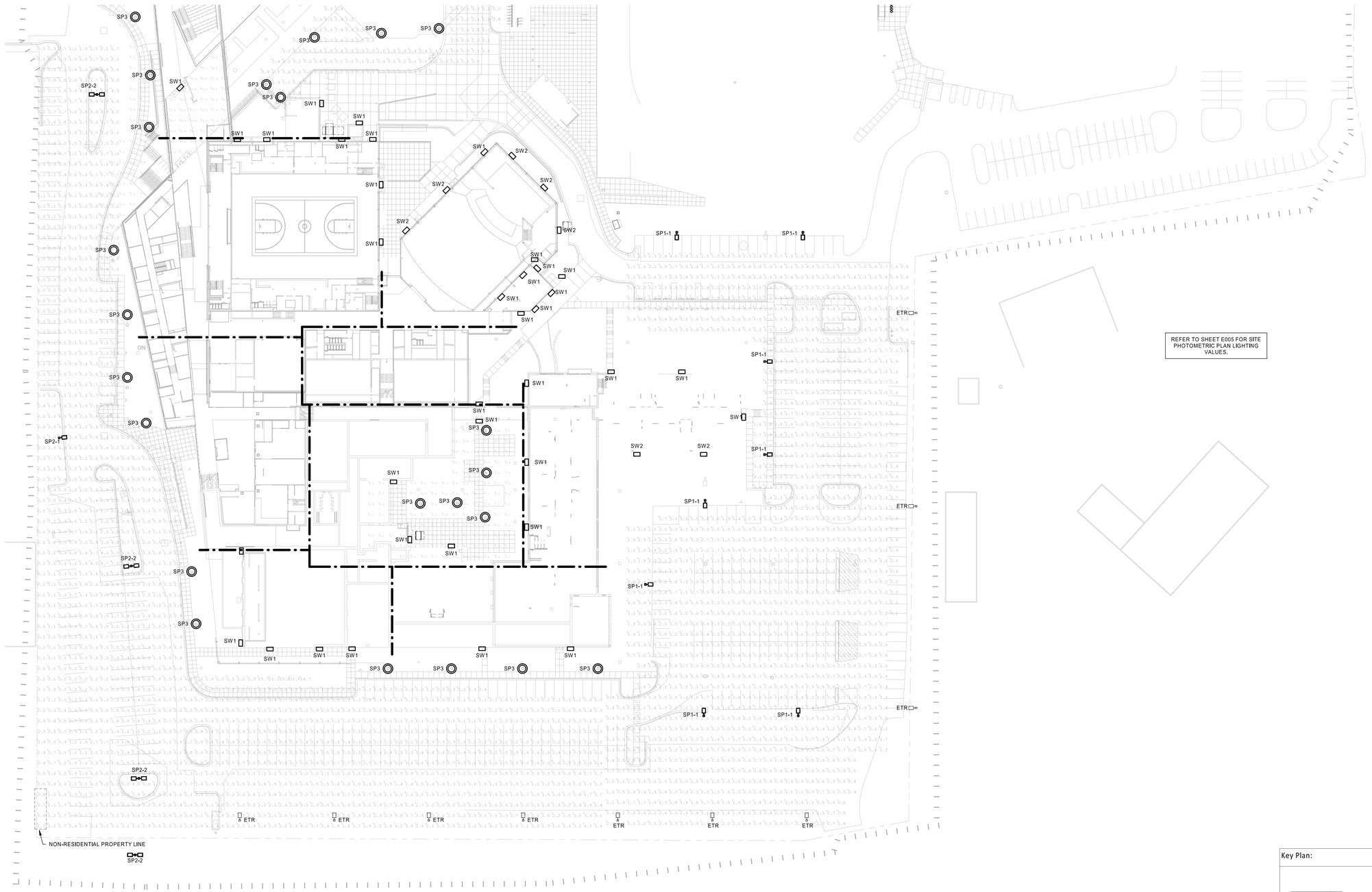
Package 2

SITE PHOTOMETRIC PLAN NORTH

E005

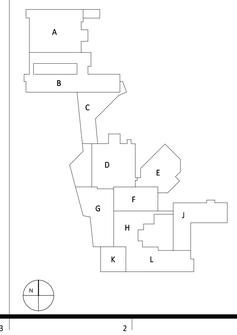
FINAL DEVELOPMENT PLAN

DOUGLAS M. EVERHART



1 ELECTRICAL SITE PHOTOMETRIC PLAN - SOUTH
1" = 40'-0"

Key Plan:



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MO. CORPORATE NO: E-556D
EXPIRES 12/31/2020

STATE OF MISSOURI
DOUGLAS M. EVERHART
NUMBER PE-2019007648
PROFESSIONAL ENGINEER

Nov 20 2020

DOUGLAS M. EVERHART
LICENSE # PE-2019007648

REVISIONS

Number	DESCRIPTION	DATE

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/14/2021

PROJECT NO: 0119-0100
DATE: November 20, 2020

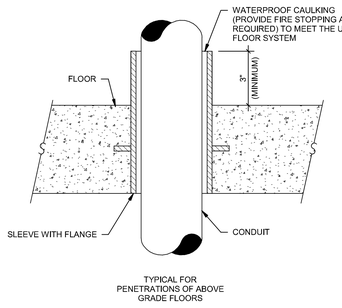
Package 2

SITE PHOTOMETRIC PLAN SOUTH

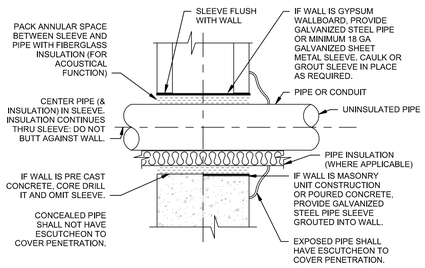
E006

FINAL DEVELOPMENT PLAN

DOUGLAS M. EVERHART

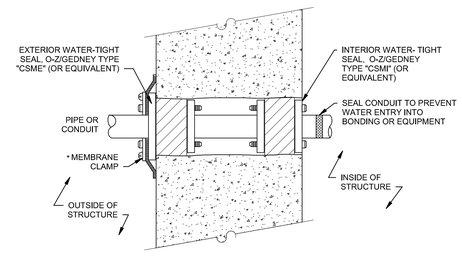


4 CONDUIT PENETRATION OF CONCRETE FLOOR
NTS

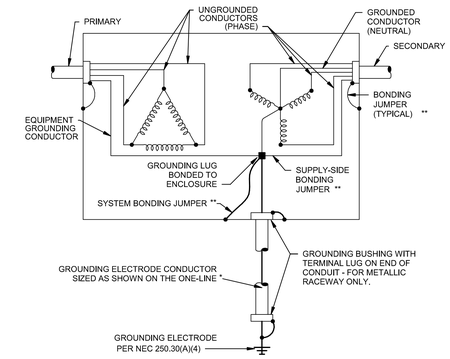


REFER TO ARCHITECTURAL DRAWINGS FOR WALL LOCATIONS.
REFER TO SPECIFICATIONS FOR ALTERNATIVE INSTALLATIONS.
COORDINATE REQUIREMENTS WITH GENERAL CONTRACTOR.

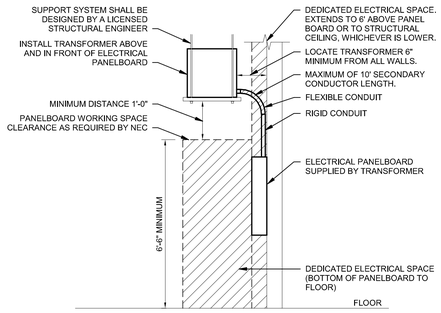
3 CONDUIT PENETRATION THRU NON-FIREWALL
NTS



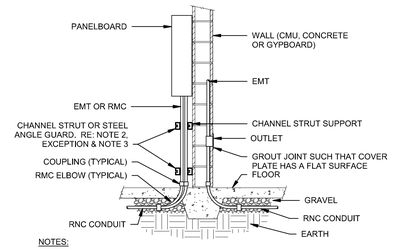
2 CONDUIT THROUGH EXISTING EXTERIOR WALL
NTS



1 DRY TYPE TRANSFORMER GROUNDING
NTS



8 SUSPENDED TRANSFORMER MOUNTING DETAIL
NTS

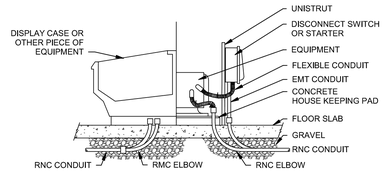


NOTES:

1. CONDUITS TURNED UP INSIDE WALLS MAY BE RNC FROM ABOVE THE SLAB TO RECESSED PANELBOARDS OR OUTLETS. FROM THE OUTLET UP IT SHALL BE EMT.
2. CONDUITS TURNED UP EXPOSED SHALL HAVE AN RMC ELBOW THROUGH THE SLAB. PROTECT THE ENTIRE ELBOW WITH RNC COATING OR MASTIC UP THROUGH THE TOP OF THE SLAB.

   EXCEPTION: IN LIEU OF RMC ELBOW, CONTRACTOR MAY USE RNC ELBOWS IF A CHANNEL STRUT OR STEEL ANGLE GUARD IS PROVIDED. GUARD SHALL STAND OFF THE WALL INDEPENDENT OF THE CONDUIT.
3. IN AREAS WITH VEHICULAR ACCESS, USE GALVANIZED RMC ELBOWS AND A STEEL GUARD.
4. APPLIES TO ALL STUB-UP LOCATIONS UNLESS NOTED OTHERWISE ON PLANS.

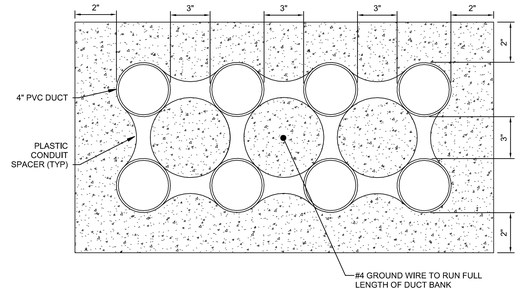
7 CONDUIT STUB-UP AT WALLS
NTS



NOTES:

1. CONDUITS TURNED UP INTO OR WITHIN 6" OF HOUSE KEEPING PADS MAY USE RNC ELBOWS THRU THE SLAB. EXTENSIONS FROM THE ELBOW SHALL BE FLEXIBLE CONDUIT (NOT MORE THAN 36" LONG) OR THEY SHALL BE EMT.
2. CONDUITS TURNED UP UNDER EQUIPMENT OR DISPLAY CASES WHICH ARE SITTING DIRECTLY ON THE FLOOR SHALL HAVE A GALVANIZED RMC ELBOW THRU THE SLAB. THE ENTIRE ELBOW SHALL BE PROTECTED WITH TAR OR MASTIC UP TO THE TOP OF THE SLAB.

6 CONDUIT STUB-UP AT EQUIPMENT
NTS

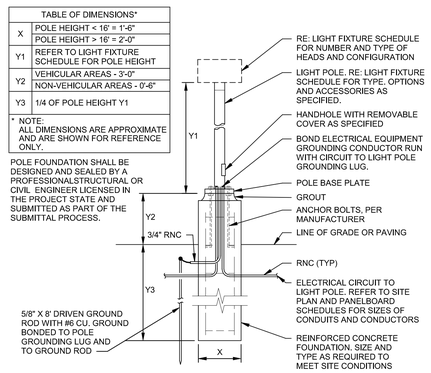


5 CONCRETE ENCASED ELECTRICAL DUCT BANK
NTS

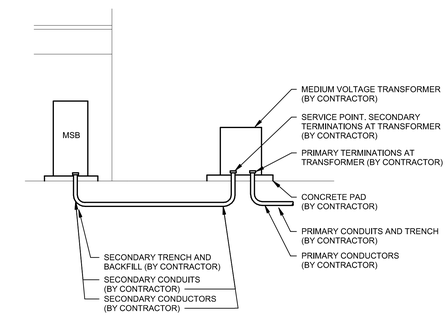
TABLE OF DIMENSIONS*	
X	POLE HEIGHT < 16' = 1'-6"
	POLE HEIGHT > 16' = 2'-0"
Y1	REFER TO LIGHT FIXTURE SCHEDULE FOR POLE HEIGHT
Y2	VEHICULAR AREAS - 3'-0"
	NON-VEHICULAR AREAS - 0'-6"
Y3	1/4 OF POLE HEIGHT Y1

* NOTE:
ALL DIMENSIONS ARE APPROXIMATE AND ARE SHOWN FOR REFERENCE ONLY.

POLE FOUNDATION SHALL BE DESIGNED AND SEALED BY A PROFESSIONALSTRUCTURAL OR CIVIL ENGINEER LICENSED IN THE PROJECT STATE AND SUBMITTED AS PART OF THE SUBMITTAL PROCESS.



10 POLE BASE DETAIL
NTS



9 UTILITY COORDINATION DETAIL
NTS

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STATE OF MISSOURI
DOUGLAS M. EVERHART
NUMBER PE-2019007648
PROFESSIONAL ENGINEER

Dec 28 2020
DOUGLAS M. EVERHART
LICENSE # PE-2019007648
1950004111
MO, CORPORATE NO. E-555D
EXPIRES 12/31/2021

REVISIONS

Number	DESCRIPTION	DATE

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/14/2021

PROJECT NO: 0119-0100
DATE: December 29, 2020

Package 2

ELECTRICAL DETAILS

E500

Issued for Construction

DOUGLAS M. EVERHART

PANELBOARD: HA12 (NEW)

BUS AMPS: 200A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 480Y/277 V 3P/4W
SUPPLIED BY: MSB-A2

FAULT CURRENT:
AIC RATED: FULLY RATED
AIC RATING:
SERVES:
MOUNTING: SURFACE
LOCATION: Electrical 2452.A

EQUIPMENT GROUND BUS
LINE-SIDE LUGS: MECHANICAL

CKT NO.	DESCRIPTION	LOAD TYPE	NOTES	WIRE SIZE	BKR AMP	P	PHASE A		PHASE B		PHASE C		P	BKR AMP	WIRE SIZE	NOTES	LOAD TYPE	DESCRIPTION	CKT NO.
1							35663	40					1	20	12		L	EXT. LTG - BASEMENT FITNESS ROOM	2
3	TXA12	--		OL	175	3			31297	0			1	20				SPARE	4
5											32904	0	1	20				SPARE	6
7	LTG - 2441, 2443, 2434, 2432, 2430	L Z		12	20	1	2213	0					1	20				SPARE	8
9	LTG - 2465, 2467, 2469	L Z		12	20	1			2355	0			1	20				SPARE	10
11	LTG - 2464, 2466, 2470	L Z		12	20	1					2325	0	1	20				SPARE	12
13	LTG - 2442, 2446, 2448, 2452, 2457	L Z		10	20	1	3859	0					1	20				SPARE	14
15	LTG - 2460, 2463, 2461, 2462	L Z		12	20	1			2406	0			1	20				SPARE	16
17	LTG - 2440 PORCH CORRIDOR, 2444, 2450	L		12	20	1					1451	0	1	20				SPARE	18
19	LTG - 2445, 2447, 2449, 2451, 2453, 2455	L Z		12	20	1	1149	0					1	20				SPARE	20
21	LTG - S. AND CRTYRD LIGHT COLUMNS	L		10	20	1			480	0			1	20				SPARE	22
23	LTG - S.E. PARKING LOT	L		8	20	1					1200	0	1	20				SPARE	24
25	EXT. LTG - COURTYARD SCONCES	L		12	20	1	280	0					1	20				SPARE	26
27	EXT. LTG - A BLDG SCONCES	L		12	20	1			280	0			1	20				SPARE	28
29	LTG - 3400, 3435, 3429, 3420, 3425	L		12	20	1					2474	0	1	20				SPARE	30
31	EQUIPPED SPACE					1	0	0					1					EQUIPPED SPACE	32
33	EQUIPPED SPACE					1			0	0			1					EQUIPPED SPACE	34
35	EQUIPPED SPACE					1					0	0	1					EQUIPPED SPACE	36
37	EQUIPPED SPACE					1	0	0					1					EQUIPPED SPACE	38
39	EQUIPPED SPACE					1			0	0			1					EQUIPPED SPACE	40
41	EQUIPPED SPACE					1					0	0	1					EQUIPPED SPACE	42

	PHASE A	PHASE B	PHASE C
TOTAL LOAD (VA):	43204 VA	36818 VA	40354 VA
TOTAL AMPS:	158 A	133 A	148 A

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND
EXISTING LOAD (E)	5000 VA	100%	5000 VA
COOLING (C)	1622 VA	100%	1622 VA
HEATING (H)	0 VA	0%	0 VA
LIGHTING (L)	20407 VA	125%	25509 VA
RECEPTACLES (R)	52710 VA	59%	31355 VA
MOTORS (M)	912 VA	100%	912 VA
SUPPLEMENTAL HEAT (U)	0 VA	100%	0 VA
MISC EQUIP (Z)	33143 VA	100%	33143 VA
REFRIGERATION (F)	0 VA	100%	0 VA
SIGN/DISPLAY (D)	0 VA	125%	0 VA
KITCHEN (K)	3000 VA	90%	2700 VA
LARGEST MOTOR	3584 VA	125%	4480 VA
SHOW WINDOW (W)	0 VA	125%	0 VA
TRACK LIGHTING	0 VA	100%	0 VA

PANELBOARD NOTES

PANELBOARD TOTALS	
TOTAL CONNECTED LOAD	120378 VA
TOTAL NEC LOAD	104721 VA
TOTAL CONNECTED CURRENT	145 A
TOTAL NEC DEMAND CURRENT	126 A

PANELBOARD: HA22 (NEW)

BUS AMPS: 400A
MAIN SIZE/TYPE: 400A M.C.B.
VOLTS/PHASE: 480Y/277 V 3P/4W
SUPPLIED BY: MSB-A2

FAULT CURRENT:
AIC RATED: FULLY RATED
AIC RATING:
SERVES:
MOUNTING: SURFACE
LOCATION: Electrical 3425

EQUIPMENT GROUND BUS
LINE-SIDE LUGS: MECHANICAL

CKT NO.	DESCRIPTION	LOAD TYPE	NOTES	WIRE SIZE	BKR AMP	P	PHASE A		PHASE B		PHASE C		P	BKR AMP	WIRE SIZE	NOTES	LOAD TYPE	DESCRIPTION	CKT NO.
1							18218	3333											2
3	TX22	R Z M		OL	125	3			17842	3333			3	20			H	EUH-3	4
5											18822	3333							6
7	LTG - 3402, 3404, 3406, 3411	L Z		12	20	1	1812	581											8
9	LTG - 3427, 3421, 3433, 3437	L Z		12	20	1			1762	581			3	15			M	LEF-1	10
11	LTG - 3415, 3408, 3421, 3423	L Z		12	20	1					1956	581							12
13	LTG - 3422 3424, 3426, 3428	L Z		12	20	1	1534	0					1	20				SPARE	14
15										0			1	20				SPARE	16
17												0	1	20				SPARE	18
19	LTG - 3407, 3405, 3403, 3401	L Z		12	20	1	867	0					1	20				SPARE	20
21	SPARE				20	1			0	0			1	20				SPARE	22
23	SPARE				20	1					0	0	1	20				SPARE	24
25	SPARE				20	1	0	0					1	20				SPARE	26
27	SPARE				20	1			0	0			1	20				SPARE	28
29	SPARE				20	1					0	0	1	20				SPARE	30
31	EQUIPPED SPACE					1	0	0					1					EQUIPPED SPACE	32
33	EQUIPPED SPACE					1			0	0			1					EQUIPPED SPACE	34
35	EQUIPPED SPACE					1					0	0	1					EQUIPPED SPACE	36
37	EQUIPPED SPACE					1	0	0					1					EQUIPPED SPACE	38
39	EQUIPPED SPACE					1			0	0			1					EQUIPPED SPACE	40
41	EQUIPPED SPACE					1					0	0	1					EQUIPPED SPACE	42

	PHASE A	PHASE B	PHASE C
TOTAL LOAD (VA):	26345 VA	23518 VA	24692 VA
TOTAL AMPS:	96 A	85 A	90 A

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND
EXISTING LOAD (E)	0 VA	100%	0 VA
COOLING (C)	7194 VA	0%	0 VA
HEATING (H)	10000 VA	100%	10000 VA
LIGHTING (L)	7836 VA	125%	9795 VA
RECEPTACLES (R)	34740 VA	64%	22370 VA
MOTORS (M)	8364 VA	100%	8364 VA
SUPPLEMENTAL HEAT (U)	0 VA	100%	0 VA
MISC EQUIP (Z)	4679 VA	100%	4679 VA
REFRIGERATION (F)	0 VA	100%	0 VA
SIGN/DISPLAY (D)	0 VA	125%	0 VA
KITCHEN (K)	0 VA	100%	0 VA
LARGEST MOTOR	1743 VA	125%	2179 VA
SHOW WINDOW (W)	0 VA	125%	0 VA
TRACK LIGHTING	0 VA	100%	0 VA

PANELBOARD NOTES

PANELBOARD TOTALS	
TOTAL CONNECTED LOAD	74556 VA
TOTAL NEC LOAD	57387 VA
TOTAL CONNECTED CURRENT	90 A
TOTAL NEC DEMAND CURRENT	69 A

PANELBOARD LEGEND

ABBREVIATIONS V1.00

AF	ARC FAULT CIRCUIT INTERRUPTER.
C#	CIRCUIT VIA LIGHTING CONTACTOR #.
CL	CIRCUIT VIA CURRENT LIMITING DEVICE.
D	DISCONNECT CIRCUITRY FOR REMOVED LOAD, UPDATE CIRCUIT DIRECTORY TO SPARE AND TURN OFF.
EM	EMERGENCY LIGHTING HANDLE-ON CLAMP.
EX	EXISTING.
F	FUTURE LOAD; NOTE AS SPARE AND TURN OFF.
FA	RED/HANDLE-ON CLAMP.
GF	GROUND-FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER (5 mA).
GFEP	GROUND FAULT EQUIPMENT PROTECTION BREAKER (30 mA).
HT	PROVIDE HANDLE-TIE FOR MULTI-WIRE BRANCH CIRCUIT PER CODE.
IG	ISOLATED GROUND CIRCUIT.
L#	LIGHTING CONTROL SCHEME NUMBER.
LCK	HANDLE PADLOCKABLE-OFF DEVICE.
LO	HANDLE-ON CLAMP.
N	PROVIDE NEW CIRCUIT BREAKER.
OL	REFER TO ELECTRICAL ONE-LINE/RISER DIAGRAM.
PS	POWER-SWITCHING CIRCUIT BREAKER.
PSE	EMERGENCY POWER-SWITCHING CIRCUIT BREAKER.
R	REUSE EXISTING CIRCUIT BREAKER FOR NEW/REVISED LOAD.
RP	CIRCUIT VIA RELAY PANEL.
ST	SHUNT TRIP CIRCUIT BREAKER.
V	VERIFY EXISTING LOAD AND UPDATE DIRECTORY, IF UNUSED, NOTE AS SPARE AND TURN OFF.
VD	BRANCH CIRCUITRY HAS BEEN UPSIZED TO REDUCE VOLTAGE DROP. ADJUST GROUND WIRE SIZE PER CODE. PROVIDE LUG ADAPTORS IF REQUIRED.
Z	CORRECT/REPAIR EXISTING HAZARD TO MAKE CODE COMPLIANT INSTALLATION.

NOT ALL ABBREVIATIONS ARE USED.

PANELBOARD: LA12 (NEW)

BUS AMPS: 400A
MAIN SIZE/TYPE: 400A M.C.B.
VOLTS/PHASE: 208Y/120 V 3P/4W
SUPPLIED BY: HA12 VIA TXA12

FAULT CURRENT:
AIC RATED: FULLY RATED
AIC RATING:
SERVES:
MOUNTING: SURFACE
LOCATION: Electrical 2452.A

EQUIPMENT GROUND BUS
LINE-SIDE LUGS: MECHANICAL

CKT NO.	DESCRIPTION	LOAD TYPE	NOTES	WIRE SIZE	BKR AMP	P	PHASE A		PHASE B		PHASE C		P	BKR AMP	WIRE SIZE	NOTES	LOAD TYPE	DESCRIPTION	CKT NO.
1							7000	360					1	20	12	FA	Z	PWR-FIRE ALARM RELAY PANEL	2
3	LGH (GREENHOUSE LOAD CTR)	Z		OL	100	3			7000	400			1	20	12		Z	PWR - BAS PANEL 2452.1	4
5											7000	400	1	20	12		Z	PWR - BAS PANEL 2452.2	6
7	ACCU-18, CRU-18	C Z		12	15	2	811	400					1	20	12		Z	PWR - BAS PANEL 2461.1	8
9									811	400			1	20	12		Z	PWR - BAS PANEL 2461.2	10
11	VAV A0104, A0113, A1104, A1105	Z		12	20	1					384	1080	1	20	8		R	RCPT - 2469 TVS	12
13	VAV A0105, A0106, A0110, A0112	Z		12	20	1	384	1260					1	20	8		R	RCPT - 2469 NORTH	14
15	VAV A1101, A1102. A1103, A1106	Z		12	20	1			384	1080			1	20	10		R	RCPT - 2469 WEST	16
17	PWR- VAV B0101(BASEMENT)	Z		12	20	1					96	1080	1	20	10		R	RCPT - 2467 TVS	18
19	EF-32,LOUVER(BASEMENT)	Z M		12	20	1	844	1080					1	20	10		R	RCPT - 2467 EAST	20
21	EF-33(BASEMENT)	Z M		12	20	1			168	1080			1	20	10		R	RCPT - 2467 NORTH	22
23	RCPT - 2442, 2444 TVS	R		8	20	1					1440	1080	1	20	10		R	RCPT - 2467 WEST	24
25	RCPT - 2446 TVS	R		10	20	1	1440	1260					1	20	10		R	RCPT - 2465 NORTH	26
27	RCPT - 2434 TVS	R		8	20	1			1080	1080			1	20	10		R	RCPT - 2465 TVS	28
29	RCPT - AV RACK 2443	Z		10	20	1					1000	1080	1	20	10		R	RCPT - 2465 EAST	30
31	RCPT - AV RACK 2443	Z		10	20	1	1000	1080					1	20	12		R	RCPT - 2465 WEST	32
33	RCPT - AV RACK 2443	Z		10	20	1			1000	1000			1	20	12		K	RCPT - 2463 FRIDGE	34
35	RCPT - AV RACK 2443	Z		10	20	1					1000	1080	1	20	12		R	RCPT - 2461, 2463, 2463.A, 2463.B	36
37	RCPT - 2452 TVS	R		12	20	1	1080	720					1	20	12		R	RCPT - 2463 EAST, ISLANDS	38
39	RCPT - 2450, 2448 TVS	R		12	20	1			1440	900			1	20	12		R	RCPT - 2463 FUME HOODS	40
41	RCPT - 2440.A	R		10	20	1					900	600	1	20	12	GF	R	RCPT - 2460 EWC	42
43	RCPT - 2434 EAST	R		10	20	1	1080	900					1	20	12		R	RCPT - 2440.B, 2445, 2449	44
45	PLGMOLD - 2448 SE	R		12	20	1			1080	900			1	20	12		R	RCPT - 2460, 2440.B	46
47	PLGMOLD - 2448 NE	R		12	20	1					1350	1080	1	20	12		R	RCPT - 2457 NORTH	48
49	RCPT - 2448 NORTH	R		12	20	1	1080	1080					1	20	12		R	RCPT - 2457 TVS	50
51	RCPT - 2452 SE	R		12	20	1			900	1000			1	20	12		K	RCPT - 2457 FRIDGE	52
53	RCPT - 2452 NORTH	R		12	20	1					1080	1080	1	20	12		R	PLGMOLD - 2457 SW	54
55	RCPT - 2452 EAST	R		12	20	1	1080	1620					1	20	12		R	PLGMOLD - 2457 NW	56
57	RCPT - 2452 FRIDGE	K		12	20	1			1000	500			1	20	10		Z	RCPT - AV RACK 2470.A	58
59	RCPT - 2464 WEST	R		12	20	1					1080	500	1	20	10		Z	RCPT - AV RACK 2470.A	60
61	PLGMOLD - 2464 SOUTH	R		12	20	1	1620	500					1	20	10		Z	RCPT - AV RACK 2470.A	62
63	RCPT - 2464 TVS	R		12	20	1			1080	500			1	20	10		Z	RCPT - AV RACK 2470.A	64
65	RCPT - 2464 EAST	R		12	20	1					1080	1000	1	20				EXISTING LOAD - PANEL P9	66
67	PLGMOLD - 2466 SOUTH	R		10	20	1	1620	1000					1	20				EXISTING LOAD - PANEL P9	68
69	RCPT - 2466 WEST	R		12	20	1			1080	1000			1	20				EXISTING LOAD - PANEL P9	70
71	RCPT - 2466 TVS	R		12	20	1					1080	1000	1	20				EXISTING LOAD - PANEL P9	72
73	RCPT - 2466 EAST, 2468 WEST	R		12	20	1	1080	1000					1	20				EXISTING LOAD - PANEL P9	74
75	RCPT - 2470 WEST, 2468 EAST	R		10	20	1			900	480			1	20	12		Z	PWR - DIGITAL CLOCKS 2460, 2440	76
77	RCPT - 2470, 2468 TVS	R		10	20	1					1080	500	1	20			Z	LSPS - 2464-67, 2469-70	78
79	RCPT - 2470 SOUTH	R		10	20	1	1260	450					1	20	12		Z	LSPS - 2434, 2448, 2452, 2457	80
81	RCPT - 2470 EAST, NORTH TV	R		10	20	1			1080	200			1	20	12		Z	PWR - RPA12	82
83	RCPT - 2469 EAST	R		8	20	1					1080	1195							84
85	RCPT - 2460-E ELEVATOR PIT	R		12	20	1	180	1195					3	15	12		Z M	HWCP A1, A3	86
87	RCPT - 2440 EWC	R		12	20	1			180	1195									88
89	SPARE				20	1					0	500	1	20	12		Z	PWR - MOTORIZED DAMPERS	90
91	SPARE				20	1	0	200					1	20	12	FA	Z	PWR- DUCT DECTORS	92
93	SPARE				20	1			0	400			1	20	12		Z	PWR-SECURITY PANEL	94
95	SPARE				20	1					0	0	1	20				SPARE	96
97	SPARE				20	1	0	0					1	20				SPARE	98
99	EQUIPPED SPACE					1			0	0			1	20				SPARE	100
101	EQUIPPED SPACE					1					0	0	1	20				SPARE	102
103	EQUIPPED SPACE					1	0	0					1	20				SPARE	104
105	EQUIPPED SPACE					1			0	0			1	20				SPARE	106
107	EQUIPPED SPACE					1					0	0	1	20				SPARE	108
109	EQUIPPED SPACE					1	0	0					1	20				SPARE	110
111	EQUIPPED SPACE					1			0	0			1	20				SPARE	112
113	EQUIPPED SPACE					1					0	0	1	20				SPARE	114
115	EQUIPPED SPACE					1	0	0					1	20				SPARE	116
117	EQUIPPED SPACE					1			0	0			1	20				SPARE	118
119	EQUIPPED SPACE					1					0	0	1	20				SPARE	120
121	EQUIPPED SPACE					1	0	0					1	20				SPARE	122
123	EQUIPPED SPACE					1			0	0			1	20				SPARE	124
125	EQUIPPED SPACE					1					0	0	1	20				SPARE	126

	PHASE A	PHASE B	PHASE C
TOTAL LOAD (VA):	35663 VA	31297 VA	32904 VA
TOTAL AMPS:	299 A	261 A	276 A

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND
EXISTING LOAD (E)	5000 VA	100%	5000 VA
COOLING (C)	1622 VA	100%	1622 VA
HEATING (H)	0 VA	0%	0 VA
LIGHTING (L)	0 VA	125%	0 VA
RECEPTACLES (R)	52710 VA	59%	31355 VA
MOTORS (M)	912 VA	100%	912 VA
SUPPLEMENTAL HEAT (U)	0 VA	100%	0 VA
MISC EQUIP (Z)	33038 VA	100%	33038 VA
REFRIGERATION (F)	0 VA	100%	0 VA
SIGN/DISPLAY (D)	0 VA	125%	0 VA
KITCHEN (K)	3000 VA	90%	2700 VA
LARGEST MOTOR	3584 VA	125%	4480 VA
SHOW WINDOW (W)	0 VA	125%	0 VA
TRACK LIGHTING	0 VA	100%	0 VA

PANELBOARD NOTES

PANELBOARD TOTALS	
TOTAL CONNECTED LOAD	99866 VA
TOTAL NEC LOAD	79107 VA
TOTAL CONNECTED CURRENT	277 A
TOTAL NEC DEMAND CURRENT	220 A

PANELBOARD: LA22 (NEW)

BUS AMPS: 225A
MAIN SIZE/TYPE: 225A M.C.B.
VOLTS/PHASE: 208Y/120 V 3P/4W
SUPPLIED BY: HA22 VIA TX22

FAULT CURRENT:
AIC RATED: FULLY RATED
AIC RATING:
SERVES:
MOUNTING: SURFACE
LOCATION: Electrical 3425

EQUIPMENT GROUND BUS
LINE-SIDE LUGS: MECHANICAL

CKT NO.	DESCRIPTION	LOAD TYPE	NOTES	WIRE SIZE	BKR AMP	P	PHASE A		PHASE B		PHASE C		P	BKR AMP	WIRE SIZE	NOTES	LOAD TYPE	DESCRIPTION	CKT NO.
1	PWR-FIRE ALARM RELAY PANEL	Z	FA	12	20	1	360	576					1	20	12		Z	VAV A0304, A0305, A0306, A0310	2
3	PWR - BAS PANEL 3425.1	Z		12	20	1			400	480			1	20	12		Z	VAV A0301, A0302, A0303, A0307, A0311	4
5	PWR - BAS PANEL 3425.1	Z		12	20	1					400	384	1	20	12		Z	VAV A1201, A1202, A1203, A1204	6
7	RELIEF HOOD RH-A3	Z		12	20	1	200	384					1	20	12		Z	VAV A1205, A1206, A1207, A1208	8
9	EF-3	Z M		10	25	1			1488	811			2	15	12		C Z	ACCU-3/CRU-3	10
11	EF-9	Z M		10	25	1					1488	811							12
13	EF-10	Z M		12	20	1	804	811					2	15	12		C Z	ACCU-4, CRU-4	14
15	EF-11	Z M		10	25	1			1488	811									16
17	EF-12	Z M		12	20	1					804	1975	2	25	10		C Z	ACCU-23, CRU-23	18
19	EF-13	Z M		10	25	1	1488	1975											20
21	EF-14	Z M		12	20	1			804	900			1	20			R	REC; EAST ROOF	22
23	RCPT - 3437	R		12	20	1					900	720	1	20			R	REC; WEST ROOF	24
25	RCPT - 3437, 3433, 3435 TVS	R		12	20	1	1080	720					1	20	12		R	RCPT - 3409, 3411 TVS	26
27	RCPT - 3437, 3435, 3433, 3431	R		12	20	1			1080	1080			1	20	10		R	RCPT - 3411, 3413, 3415	28
29	RCPT - 3433, 3431	R		12	20	1					1080	720	1	20	12		R	RCPT - 3413, 3415 TVS	30
31	RCPT - 3431, 3429, 3427 TVS	R		12	20	1	1080	1000					1	20	12		Z	PWR - DIGITAL CLOCKS 3420, 3400	32
33	RCPT - 3431, 3427	R		12	20	1			900	400			1	20			Z	MISC EQUIP	34
35	RCPT - 3431, 3429, 3427	R		12	20	1					900	0	1	20				SPARE	36
37	RCPT - 3420.A EAST	R		12	20	1	720	0					1	20				SPARE	38
39	RCPT - 3420.A WEST	R		12	20	1			540	0			1	20				SPARE	40
41	RCPT - 3428 TVS	R		10	20	1					1080	0	1	20				SPARE	42
43	RCPT - 3426, 3428	R		8	20	1	1800	0					1	20				SPARE	44
45	RCPT - 3426 TVS	R		12	20	1			1080	0			1	20				SPARE	46
47	RCPT - 3424, 3426 TVS	R		12	20	1					1080	0	1	20				SPARE	48
49	RCPT - 3424, 3422 TVS	R		12	20	1	1080	0					1	20				SPARE	50
51	RCPT - 3426, 3424	R		12	20	1			900	0			1	20				SPARE	52
53	RCPT - 3422, 3424 TVS	R		12	20	1					1080	0	1	20				SPARE	54
55	RCPT - 3422, 3424	R		12	20	1	1080	0					1	20				SPARE	56
57	RCPT - 3408 TVS	R		12	20	1			1080	0			1	20				SPARE	58
59	RCPT - 3408, 3422 TVS	R		12	20	1					1080	0	1	20				SPARE	60
61	RCPT - 3408 SOUTH, 3406 NORTH	R		12	20	1	720	0					1	20				SPARE	62
63	RCPT - 3421, 3423 TVS	R		12	20	1			720	0			1	20				SPARE	64
65	RCPT - 3421, 3423	R		12	20	1					1080	0	1	20				SPARE	66
67	RCPT - 3400.A NORTH	R		12	20	1	900	0					1	20				SPARE	68
69	RCPT - 3400.A SOUTH	R		10	20	1			1080	0			1	20				SPARE	70
71	RCPT - 3406 TVS	R		12	20	1					1080	0	1	20				SPARE	72
73	RCPT - 3406 SOUTH, 3404 NORTH	R		12	20	1	720	0					1	20				SPARE	74
75	RCPT - 3404 TVS	R		10	20	1			1080	0			1	20				SPARE	76
77	RCPT - 3404, 3402 TVS	R		10	20	1					1080	0	1	20				SPARE	78
79	RCPT - 3402 TVS	R		12	20	1	720	0					1	20				SPARE	80
81	RCPT - 3402 NORTH, 3404 SOUTH	R		12	20	1			720	0			1	20				SPARE	82
83	RCPT - 3407, 3409, 3411	R		10	20	1					1080	0	1	20				SPARE	84

	PHASE A	PHASE B	PHASE C
TOTAL LOAD (VA):	18218 VA	17842 VA	18822 VA
TOTAL AMPS:	152 A	149 A	157 A

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND
EXISTING LOAD (E)	0 VA	100%	0 VA
COOLING (C)	7194 VA	100%	7194 VA
HEATING (H)	0 VA	0%	0 VA
LIGHTING (L)	0 VA	125%	0 VA
RECEPTACLES (R)	34740 VA	64%	22370 VA
MOTORS (M)	6876 VA	100%	6876 VA
SUPPLEMENTAL HEAT (U)	0 VA	100%	0 VA
MISC EQUIP (Z)	4584 VA	100%	4584 VA
REFRIGERATION (F)	0 VA	100%	0 VA
SIGN/DISPLAY (D)	0 VA	125%	0 VA
KITCHEN (K)	0 VA	100%	0 VA
LARGEST MOTOR	1488 VA	125%	1860 VA
SHOW WINDOW (W)	0 VA	125%	0 VA
TRACK LIGHTING	0 VA	100%	0 VA

PANELBOARD NOTES

PANELBOARD TOTALS	
TOTAL CONNECTED LOAD	54882 VA
TOTAL NEC LOAD	42884 VA
TOTAL CONNECTED CURRENT	152 A
TOTAL NEC DEMAND CURRENT	119 A

HA12	HA22
LA12	LA22

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STATE OF MISSOURI
DOUGLAS M. EVERHART
NUMBER PE-2019007648
PROFESSIONAL ENGINEER

Dec 28 2020
DOUGLAS M. EVERHART
LICENSE # PE-2019007648
1950004111
MO. CORPORATE NO: E-556D
EXPIRES 12/31/2021

REVISIONS

Number	DESCRIPTION	DATE

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/14/2021

PROJECT NO: 0119-0100
DATE: December 29, 2020

Package 2

PANELBOARD SCHEDULES - A BLDG SERVICE 2

E601

Issued for Construction

DOUGLAS M. EVERHART

PANELBOARD: HB13 (NEW)

BUS AMPS: 200A
MAIN SIZE/TYPE: 200A M.C.B.
VOLTS/PHASE: 480Y/277 V 3P/4W
SUPPLIED BY: MSB-B

FAULT CURRENT: Refer to One-Line
AIC RATED: FULLY RATED
AIC RATING: FCA +10% MINIMUM
SERVES: Level 1 Zone A
MOUNTING: SURFACE
LOCATION: Electrical 1753

EQUIPMENT GROUND BUS
LINE-SIDE LUGS: MECHANICAL

CKT NO.	DESCRIPTION	LOAD TYPE	NOTES	WIRE SIZE	BKR AMP	P	PHASE A		PHASE B		PHASE C		P	BKR AMP	WIRE SIZE	NOTES	LOAD TYPE	DESCRIPTION	CKT NO.
1	EXT. LTG - B BLDG SCONCES	L		12	20	1	160	1667											2
3	EXT. LTG - B BLDG SCONCES	L		12	20	1			80	1667			3	15	12		H Z	EUH-7	4
5	EXT. LTG - NORTH COURTYARD	L		12	20	1					120	1667							6
7	LTG - 1739, 1737, 1735, 1733, 1731	L Z		12	20	1	2350	4829											8
9	LTG - 1740, 1747, 1745, 1741,	L Z		12	20	1			3124	4829			3	20	12		M Z	AHU-B1	10
11	LTG - NORTH GYM - WEST	L	EM	12	20	1					2461	4829							12
13	LTG - NORTH GYM - CENTER	L	EM	12	20	1	2436	0					1	20				SPARE	14
15	LTG - NORTH GYM - EAST	L	EM	12	20	1			2436	0			1	20				SPARE	16
17	LTG - 1713, 1709, 1707, 1703, 1715-1717	L Z		12	20	1					2564	0	1	20				SPARE	18
19	LTG - 1753, 1738, 1723, 1724, 1754	L Z		12	20	1	3315	0					1	20				SPARE	20
21	LTG - 1720, 1710, 1700, 1751	L		12	20	1			3137	0			1	20				SPARE	22
23	LTG - NORTH GYM - MEZ	L	EM	12	20	1					1834	0	1	20				SPARE	24
25	LTG - 1752, NORTH GYM - STAGE	L	EM	12	20	1	2520	0					1	20				SPARE	26
27	SPARE				20	1			0	0			1	20				SPARE	28
29	SPARE				20	1					0	0	1	20				SPARE	30
31	EQUIPPED SPACE					1	0	0					1					EQUIPPED SPACE	32
33	EQUIPPED SPACE					1			0	0			1					EQUIPPED SPACE	34
35	EQUIPPED SPACE					1					0	0	1					EQUIPPED SPACE	36
37							15976	0					1					EQUIPPED SPACE	38
39	TXB13, PANEL LB13	R Z M		OL	125	3			16321	0			1					EQUIPPED SPACE	40
41											14430	1500	1	20	8		L	LTG - NORTH PARKING LOT	42
	TOTAL LOAD (VA):						33253 VA		31594 VA		29405 VA								
	TOTAL AMPS:						121 A		115 A		106 A								

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND
EXISTING LOAD (E)	0 VA	100%	0 VA
COOLING (C)	3434 VA	0%	0 VA
HEATING (H)	5190 VA	100%	5190 VA
LIGHTING (L)	27727 VA	125%	34659 VA
RECEPTACLES (R)	17640 VA	78%	13820 VA
MOTORS (M)	11903 VA	100%	11903 VA
SUPPLEMENTAL HEAT (U)	0 VA	100%	0 VA
MISC EQUIP (Z)	14061 VA	100%	14061 VA
REFRIGERATION (F)	0 VA	100%	0 VA
SIGN/DISPLAY (D)	0 VA	125%	0 VA
KITCHEN (K)	0 VA	100%	0 VA
LARGEST MOTOR	14487 VA	125%	18109 VA
SHOW WINDOW (W)	0 VA	125%	0 VA
TRACK LIGHTING	0 VA	100%	0 VA

PANELBOARD NOTES

PANELBOARD TOTALS	
TOTAL CONNECTED LOAD	94442 VA
TOTAL NEC LOAD	97742 VA
TOTAL CONNECTED CURRENT	114 A
TOTAL NEC DEMAND CURRENT	118 A

PANELBOARD: LB13 (NEW)

BUS AMPS: 225A
MAIN SIZE/TYPE: 225A M.C.B.
VOLTS/PHASE: 208Y/120 V 3P/4W
SUPPLIED BY: HB13 VIA TXB13

FAULT CURRENT: Refer to One-Line
AIC RATED: FULLY RATED
AIC RATING: FCA +10% MINIMUM
SERVES: Level 1 Zone A North
MOUNTING: SURFACE
LOCATION: Electrical 1753

EQUIPMENT GROUND BUS
LINE-SIDE LUGS: MECHANICAL

CKT NO.	DESCRIPTION	LOAD TYPE	NOTES	WIRE SIZE	BKR AMP	P	PHASE A		PHASE B		PHASE C		P	BKR AMP	WIRE SIZE	NOTES	LOAD TYPE	DESCRIPTION	CKT NO.
1	FLR RCPT - 1747 WEST	R		12	20	1	2160	480					1	20	12		Z	PWR - DIGITAL CLOCKS 1730, 1710	2
3	FLR RCPT - 1747 CENTER	R		12	20	1			2160	1440			1	20	10		M	CLG RCPT - 1733 POTTERY WHEEL 2	4
5	FLR RCPT - 1747 EAST	R		12	20	1					2160	480	1	20	12		Z	PWR - DIGITAL CLOCKS 1720, 1700	6
7	RCPT - 1747 NORTH	R		12	20	1	1080	1440					1	20	10		M	CLG RCPT - 1733 POTTERY WHEEL 4	8
9	RCPT - 1747 CONVENIENCE	Z		12	20	1			2000	1440			1	20	10		M	CLG RCPT - 1733 POTTERY WHEEL 5	10
11	RCPT - 1730.A, 1740, 1747 TVS	R		12	20	1					1080	1440	1	20	10		M	CLG RCPT - 1733 POTTERY WHEEL 6	12
13	RCPT - 1739, 1741, 1745 TVS	R		12	20	1	1080	720					1	20	12		R	RCPT - 1730.A EAST	14
15	RCPT - 1733, 1735, 1737 TVS	R		12	20	1			1080	1080			1	20	12		R	RCPT - 1730.A CENTER 1	16
17	RCPT - 1735, 1737 CLASSRMS	R		12	20	1					1440	1080	1	20	12		R	RCPT - 1730.A CENTER 2	18
19	RCPT - 1730 EWC	Z			20	1	600	1080					1	20	12		R	RCPT - 1730.A WEST, 1743	20
21	SPARE				20	1			0	540			1	20	12		R	RCPT - 1740, 1740.A	22
23	SPARE				20	1					0	600	1	20	12	GF	Z	RCPT - 1710 VEND NORTH	24
25	SPARE				20	1	0	600					1	20	12		Z	RCPT - 1710 VEND SOUTH	26
27	SPARE				20	1			0	500			1	20	12		Z	RCPT - 1753.A AV RACK 1	28
29	SPARE				20	1					0	500	1	20	12		Z	RCPT - 1753.A AV RACK 2	30
31	SPARE				20	1	0	500					1	20	12		Z	RCPT - 1753.A AV RACK 1	32
33	SPARE				20	1			0	500			1	20	12		Z	RCPT - 1753.A AV RACK 2	34
35	SPARE				20	1					0	180	1	20	12		R	RCPT - 1753 ELEC	36
37	PWR-SECURITY PANEL	Z		12	20	1	500	500					1	20	10		Z	1751 AV RACK 1	38
39	IH-B1	Z		12	20	1			400	500			1	20	12		Z	1751 AV RACK 2	40
41	RH-B1	Z		12	20	1					400	1000	1	20	12	FA	Z	PWR-MOTORIZED/FIRE DAMPERS	42
43	EF-35	Z M		12	20	1	744	500					1	20	12		Z	PWR-RPB13	44
45	EF-34	Z M		12	20	1			744	960			1	20	12	FA	Z	PWR-FIRE ALARM RELAY PANEL	46
47	EF-6	Z M		12	20	1					1272	300	1	20	12		Z	PWR-MOTORIZED DAMPERS	48
49	EF-21	Z M		12	20	1	1488	96					1	15	12		Z	VAV-B0201	50
51	RCPT - ROOFTOP SERVICE	R		12	20	1			720	570			1	15	12		Z	VAV B0102-B0108	52
53	ACCU-19/CRU-19	C Z		12	15	2					811								54
55							811	166					1	20	12		M	EF-31	56
57	ACCU-20/CRU-20	C Z		12	15	2			811	300			1	20	12		Z	PWR - BAS PANEL 1753.A.1	58
59											811	300	1	20	12		Z	PWR - BAS PANEL 1753.A.2	60
61							576	855					1	15	12		H C Z	VAV B0202-B0205,b0207,B0209	62
63	HWCHP B1	Z M		12	15	3			576	0			1	20				SPARE	64
65											576	0	1	20				SPARE	66
67	SPARE				20	1	0	0					1	20				SPARE	68
69	SPARE				20	1			0	0			1	20				SPARE	70
71	SPARE				20	1					0	0	1	20				SPARE	72
73	SPARE				20	1	0	0					1	20				SPARE	74
75	EQUIPPED SPACE					1			0	0			1					EQUIPPED SPACE	76
77	EQUIPPED SPACE					1					0	0	1					EQUIPPED SPACE	78
79	EQUIPPED SPACE					1	0	0					1					EQUIPPED SPACE	80
81	EQUIPPED SPACE					1			0	0			1					EQUIPPED SPACE	82
83	EQUIPPED SPACE					1					0	0	1					EQUIPPED SPACE	84
	TOTAL LOAD (VA):						15976 VA		16321 VA		14430 VA								
	TOTAL AMPS:						135 A		138 A		120 A								

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND
EXISTING LOAD (E)	0 VA	100%	0 VA
COOLING (C)	3434 VA	100%	3434 VA
HEATING (H)	190 VA	0%	0 VA
LIGHTING (L)	0 VA	125%	0 VA
RECEPTACLES (R)	17640 VA	78%	13820 VA
MOTORS (M)	10174 VA	100%	10174 VA
SUPPLEMENTAL HEAT (U)	0 VA	100%	0 VA
MISC EQUIP (Z)	13751 VA	100%	13751 VA
REFRIGERATION (F)	0 VA	100%	0 VA
SIGN/DISPLAY (D)	0 VA	125%	0 VA
KITCHEN (K)	0 VA	100%	0 VA
LARGEST MOTOR	1729 VA	125%	2161 VA
SHOW WINDOW (W)	0 VA	125%	0 VA
TRACK LIGHTING	0 VA	100%	0 VA

PANELBOARD NOTES

PANELBOARD TOTALS	
TOTAL CONNECTED LOAD	46918 VA
TOTAL NEC LOAD	43340 VA
TOTAL CONNECTED CURRENT	130 A
TOTAL NEC DEMAND CURRENT	120 A

PANELBOARD: LB1D (NEW)

BUS AMPS: 225A
MAIN SIZE/TYPE: 225A M.C.B.
VOLTS/PHASE: 208Y/120 V 3P/4W
SUPPLIED BY: DP-B

FAULT CURRENT:
AIC RATED: FULLY RATED
AIC RATING:
SERVES:
MOUNTING: SURFACE
LOCATION: Electrical 1743

EQUIPMENT GROUND BUS
LINE-SIDE LUGS: MECHANICAL

CKT NO.	DESCRIPTION	LOAD TYPE	NOTES	WIRE SIZE	BKR AMP	P	PHASE A		PHASE B		PHASE C		P	BKR AMP	WIRE SIZE	NOTES	LOAD TYPE	DESCRIPTION	CKT NO.
1	EXISTING LOAD - PANEL D				20	1	500	500					1	20				EXISTING LOAD - PANEL D	2
3	EXISTING LOAD - PANEL D				20	1			500	500			1	20				EXISTING LOAD - PANEL D	4
5	EXISTING LOAD - PANEL D				20	1					500	500	1	20				EXISTING LOAD - PANEL D	6
7	EXISTING LOAD - PANEL D				20	1	500	500					1	20				EXISTING LOAD - PANEL D	8
9	EXISTING LOAD - PANEL D				20	1			500	800			2	20				EXISTING LOAD - PANEL D	10
11	EXISTING LOAD - PANEL D				20	1					500	800							12
13	EXISTING LOAD - PANEL D				20	1	500	800					2	20				EXISTING LOAD - PANEL D	14
15	EXISTING LOAD - PANEL D				20	1			500	800									16
17	EXISTING LOAD - PANEL D				20	1					500	800	2	20				EXISTING LOAD - PANEL D	18
19	EQUIPPED SPACE					1	0	800											20
21	EXISTING LOAD - PANEL D				20	1			500	800			2	20				EXISTING LOAD - PANEL D	22
23	EQUIPPED SPACE					1					0	800							24
25	EXISTING LOAD - PANEL D				20	1	500	1500					2	40				EXISTING LOAD - PANEL D	26
27	EXISTING LOAD - PANEL D				20	1			500	1500									28
29	EXISTING LOAD - PANEL D				20	1					500	800	2	15				EXISTING LOAD - PANEL D	30
31	EXISTING LOAD - PANEL D				20	1	500	800											32
33	EXISTING LOAD - PANEL D				20	1			500	500			1	20				EXISTING LOAD - PANEL D	34
35	EXISTING LOAD - PANEL D				20	1					500	800	2	20				EXISTING LOAD - PANEL D	36
37	EXISTING LOAD - PANEL D				20	1	500	800											38
39	EXISTING LOAD - PANEL D				20	1			500	500			1	15				EXISTING LOAD - PANEL D	40
41	EXISTING LOAD - PANEL D				20	1					500	500	1	20				EXISTING LOAD - PANEL D	42
43	EXISTING LOAD - PANEL D				20	1	500	500					1	20				EXISTING LOAD - PANEL D	44
45	EXISTING LOAD - PANEL D				20	1			500	500			1	20				EXISTING LOAD - PANEL D	46
47	EXISTING LOAD - PANEL D				20	2					800	0	1	20				SPARE	48
49							800	0					1	20				SPARE	50
51	EXISTING LOAD - PANEL D				20	2			800	0			1	20				SPARE	52
53											800	0	1	20				SPARE	54
55	EXISTING LOAD - PANEL D				20	1	500	0					1					EQUIPPED SPACE	56
57	SPARE				20	1			0	0			1					EQUIPPED SPACE	58
59	SPARE				20	1					0	0	1					EQUIPPED SPACE	60
	TOTAL LOAD (VA):						11000 VA		10700 VA		9600 VA								
	TOTAL AMPS:						93 A		91 A		80 A								

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND
EXISTING LOAD (E)	31300 VA	100%	31300 VA
COOLING (C)	0 VA	0%	0 VA
HEATING (H)	0 VA	100%	0 VA
LIGHTING (L)	0 VA	125%	0 VA
RECEPTACLES (R)	0 VA	0%	0 VA
MOTORS (M)	0 VA	100%	0 VA
SUPPLEMENTAL HEAT (U)	0 VA	100%	0 VA
MISC EQUIP (Z)	0 VA	100%	0 VA
REFRIGERATION (F)	0 VA	100%	0 VA
SIGN/DISPLAY (D)	0 VA	125%	0 VA
KITCHEN (K)	0 VA	100%	0 VA
LARGEST MOTOR	0 VA	125%	0 VA
SHOW WINDOW (W)	0 VA	125%	0 VA
TRACK LIGHTING	0 VA	100%	0 VA

PANELBOARD NOTES

PANELBOARD TOTALS	
TOTAL CONNECTED LOAD	31300 VA
TOTAL NEC LOAD	31300 VA
TOTAL CONNECTED CURRENT	87 A
TOTAL NEC DEMAND CURRENT	87 A

PANELBOARD: LB1A (NEW)

BUS AMPS: 225A
MAIN SIZE/TYPE: 125A M.C.B.
VOLTS/PHASE: 208Y/120 V 3P/4W
SUPPLIED BY: DP-B

FAULT CURRENT:
AIC RATED: FULLY RATED
AIC RATING:
SERVES:
MOUNTING: SURFACE
LOCATION: Electrical 1702

EQUIPMENT GROUND BUS
LINE-SIDE LUGS: MECHANICAL

CKT NO.	DESCRIPTION	LOAD TYPE	NOTES	WIRE SIZE	BKR AMP	P	PHASE A		PHASE B		PHASE C		P	BKR AMP	WIRE SIZE	NOTES	LOAD TYPE	DESCRIPTION	CKT NO.
1	EXISTING LOAD - PANEL A				20	1	500	500					1	15				EXISTING LOAD - PANEL A	2
3	EXISTING LOAD - PANEL A				20	1			500	1000									4
5	EXISTING LOAD - PANEL A				20	1					500	1000	3	20				EXISTING LOAD - PANEL A	6
7	EXISTING LOAD - PANEL A				20	1	500	1000											8
9	EXISTING LOAD - PANEL A				20	1			500	500			1	15				EXISTING LOAD - PANEL A	10
11	EXISTING LOAD - PANEL A				20	1					500	500	1	20				EXISTING LOAD - PANEL A	12
13	EXISTING LOAD - PANEL A				20	1	500	500					1	20				EXISTING LOAD - PANEL A	14
15	EXISTING LOAD - PANEL A				20	1			500	500			1	15				EXISTING LOAD - PANEL A	16
17	EXISTING LOAD - PANEL A				20	1					500	500							18
19	EXISTING LOAD - PANEL A				20	1	500	500					3	30				EXISTING LOAD - PANEL A	20
21	EXISTING LOAD - PANEL A				20	1			500	500									22
23	EXISTING LOAD - PANEL A				20	1					500	1000							24
25	EXISTING LOAD - PANEL A				20	1	500	1000					3	30				EXISTING LOAD - PANEL A	26
27	EXISTING LOAD - PANEL A				20	1			500	1000									28
29	EXISTING LOAD - PANEL A				20	1					500	500	1	20				EXISTING LOAD - PANEL A	30
31	EXISTING LOAD - PANEL A				20	1	500	500					1	20				EXISTING LOAD - PANEL A	32
33	EXISTING LOAD - PANEL A				20	1			500	500			1	20				EXISTING LOAD - PANEL A	34
35	EXISTING LOAD - PANEL A				20	1					500	500	1	20				EXISTING LOAD - PANEL A	36
37	EXISTING LOAD - PANEL A				20	1	500	500					1	20				EXISTING LOAD - PANEL A	38
39	EXISTING LOAD - PANEL A				20	1			500	500			1	20				EXISTING LOAD - PANEL A	40
41	EXISTING LOAD - PANEL A				15	1					500	500	1	20				EXISTING LOAD - PANEL A	42
43	RCPT - 1711, 1713 N, 1713.A	R		12	20	1	1080	600					1	20	12	GF	Z	RCPT - 1700 VEND WEST	44
45	RCPT - 1707, 1709, 1713 TVS	R		12	20	1			1080	600			1	20	12	GF	Z	RCPT - 1700 EWC	46
47	RCPT - 1703, 1705, 1707	R		12	20	1					720	600	1	20	12	GF	Z	RCPT - VEND NORTH	48
49	RCPT - 1703 W, 1705 TVS	R		12	20	1	1080	600					1	20	12	GF	Z	RCPT - VEND SOUTH	50
51	RCPT - 1703 EAST TVS	R		12	20	1			1080	0			1					EQUIPPED SPACE	52
53	RCPT - 1700 VEND EAST	Z	GF	12	20	1					600	0	1					EQUIPPED SPACE	54
	TOTAL LOAD (VA):						11360 VA		10760 VA		9920 VA								
	TOTAL AMPS:						96 A		91 A		83 A								

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND
EXISTING LOAD (E)	24000 VA	100%	24000 VA
COOLING (C)	0 VA	0%	0 VA
HEATING (H)	0 VA	100%	0 VA
LIGHTING (L)	0 VA	125%	0 VA
RECEPTACLES (R)	5040 VA	100%	5040 VA
MOTORS (M)	0 VA	100%	0 VA
SUPPLEMENTAL HEAT (U)	0 VA	100%	0 VA
MISC EQUIP (Z)	3000 VA	100%	3000 VA
REFRIGERATION (F)	0 VA	100%	0 VA
SIGN/DISPLAY (D)	0 VA	125%	0 VA
KITCHEN (K)	0 VA	100%	0 VA
LARGEST MOTOR	0 VA	125%	0 VA
SHOW WINDOW (W)	0 VA	125%	0 VA
TRACK LIGHTING	0 VA	100%	0 VA

PANELBOARD NOTES

PANELBOARD TOTALS	
TOTAL CONNECTED LOAD	32040 VA
TOTAL NEC LOAD	32040 VA
TOTAL CONNECTED CURRENT	89 A
TOTAL NEC DEMAND CURRENT	89 A

PANELBOARD: LB1B (NEW)

BUS AMPS: 225A
MAIN SIZE/TYPE: 225A M.C.B.
VOLTS/PHASE: 208Y/120 V 3P/4W
SUPPLIED BY: DP-B

FAULT CURRENT:
AIC RATED: FULLY RATED
AIC RATING:
SERVES:
MOUNTING: SURFACE
LOCATION: Classroom - Life Skills 1709

EQUIPMENT GROUND BUS
LINE-SIDE LUGS: MECHANICAL

CKT NO.	DESCRIPTION	LOAD TYPE	NOTES	WIRE SIZE	BKR AMP	P	PHASE A		PHASE B		PHASE C		P	BKR AMP	WIRE SIZE	NOTES	LOAD TYPE	DESCRIPTION	CKT NO.
1	EXISTING LOAD - PANEL B				20	1	500	500					1	15				EXISTING LOAD - PANEL B	2
3	EXISTING LOAD - PANEL B				20	1			500	500			1	20				EXISTING LOAD - PANEL B	4
5	EXISTING LOAD - PANEL B				20	1					500	500	1	20				EXISTING LOAD - PANEL B	6
7	EXISTING LOAD - PANEL B				20	1	500	500					1	20				EXISTING LOAD - PANEL B	8
9	EXISTING LOAD - PANEL B				20	1			500	500			1	30				EXISTING LOAD - PANEL B	10
11	EXISTING LOAD - PANEL B				20	1					500	800							12
13							1000	800					3	15				EXISTING LOAD - PANEL B	14
15	EXISTING LOAD - PANEL B				30	3			1000	800									16
17											1000	500	1	20				EXISTING LOAD - PANEL B	18
19	EXISTING LOAD - PANEL B				15	1	500	500					1	20				EXISTING LOAD - PANEL B	20
21	EXISTING LOAD - PANEL B				20	1			500	500			1	20				EXISTING LOAD - PANEL B	22
23	EXISTING LOAD - PANEL B				15	1					500	500	1	20				EXISTING LOAD - PANEL B	24
25	EXISTING LOAD - PANEL B				20	1	500	500					1	20				EXISTING LOAD - PANEL B	26
27	EXISTING LOAD - PANEL B				20	1			500	500			1	20				EXISTING LOAD - PANEL B	28
29	EXISTING LOAD - PANEL B				20	1					500	500	1	20				EXISTING LOAD - PANEL B	30
31	EXISTING LOAD - PANEL B				20	1	500	500					1	20				EXISTING LOAD - PANEL B	32
33	EXISTING LOAD - PANEL B				30	1			500	500			1	20				EXISTING LOAD - PANEL B	34
35	EXISTING LOAD - PANEL B				15	1					500	500	1	20				EXISTING LOAD - PANEL B	36
37	EXISTING LOAD - PANEL B				15	1	500	500					1	20				EXISTING LOAD - PANEL B	38
39	EXISTING LOAD - PANEL B				15	1			500	500			1	20				EXISTING LOAD - PANEL B	40
41	EXISTING LOAD - PANEL B				20	1					500	500	1	20				EXISTING LOAD - PANEL B	42
43	SPARE				20	1	0	0					1	20				SPARE	44
45	SPARE				20	1			0	0			1	20				SPARE	46
47	SPARE				20	1					0	0	1	20				SPARE	48
49	EQUIPPED SPACE					1	0	0					1					EQUIPPED SPACE	50
51	EQUIPPED SPACE					1			0	0			1					EQUIPPED SPACE	52
53	EQUIPPED SPACE					1					0	0	1					EQUIPPED SPACE	54
55	EQUIPPED SPACE					1	0	0					1					EQUIPPED SPACE	56
57	VAV B0601,B0602,B0603,B0604,B0605	H C Z			15	1			475	0			1					EQUIPPED SPACE	58
59	EF-19,EF-20	Z M			15	1					332	0	1					EQUIPPED SPACE	60
	TOTAL LOAD (VA):						7800 VA		8275 VA		8132 VA								
	TOTAL AMPS:						65 A		69 A		68 A								

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND
EXISTING LOAD (E)	23400 VA	100%	23400 VA
COOLING (C)	475 VA	0%	0 VA
HEATING (H)	475 VA	100%	475 VA
LIGHTING (L)	0 VA	125%	0 VA
RECEPTACLES (R)	0 VA	0%	0 VA
MOTORS (M)	0 VA	100%	0 VA
SUPPLEMENTAL HEAT (U)	0 VA	100%	0 VA
MISC EQUIP (Z)	0 VA	100%	0 VA
REFRIGERATION (F)	0 VA	100%	0 VA
SIGN/DISPLAY (D)	0 VA	125%	0 VA
KITCHEN (K)	0 VA	100%	0 VA
LARGEST MOTOR	332 VA	125%	415 VA
SHOW WINDOW (W)	0 VA	125%	0 VA
TRACK LIGHTING	0 VA	100%	0 VA

PANELBOARD NOTES

PANELBOARD TOTALS	
TOTAL CONNECTED LOAD	24682 VA
TOTAL NEC LOAD	24290 VA
TOTAL CONNECTED CURRENT	69 A
TOTAL NEC DEMAND CURRENT	67 A

PANELBOARD LEGEND

ABBREVIATIONS V1.00

AF	ARC FAULT CIRCUIT INTERRUPTER.
C#	CIRCUIT VIA LIGHTING CONTACTOR #.
CL	CIRCUIT VIA CURRENT LIMITING DEVICE.
D	DISCONNECT CIRCUITRY FOR REMOVED LOAD, UPDATE CIRCUIT DIRECTORY TO SPARE AND TURN OFF.
EM	EMERGENCY LIGHTING HANDLE-ON CLAMP.
EX	EXISTING.
F	FUTURE LOAD; NOTE AS SPARE AND TURN OFF.
FA	RED/HANDLE-ON CLAMP.
GF	GROUND-FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER (5 mA).
GFEP	GROUND FAULT EQUIPMENT PROTECTION BREAKER (30 mA).
HT	PROVIDE HANDLE-TIE FOR MULTI-WIRE BRANCH CIRCUIT PER CODE.
IG	ISOLATED GROUND CIRCUIT.
L#	LIGHTING CONTROL SCHEME NUMBER.
LCK	HANDLE PADLOCKABLE-OFF DEVICE.
LO	HANDLE-ON CLAMP.
N	PROVIDE NEW CIRCUIT BREAKER.
OL	REFER TO ELECTRICAL ONE-LINE/RISER DIAGRAM.
PS	POWER-SWITCHING CIRCUIT BREAKER.
PSE	EMERGENCY POWER-SWITCHING CIRCUIT BREAKER.
R	REUSE EXISTING CIRCUIT BREAKER FOR NEW/REVISED LOAD.
RP	CIRCUIT VIA RELAY PANEL.
ST	SHUNT TRIP CIRCUIT BREAKER.
V	VERIFY EXISTING LOAD AND UPDATE DIRECTORY, IF UNUSED, NOTE AS SPARE AND TURN OFF.
VD	BRANCH CIRCUITRY HAS BEEN UPSIZED TO REDUCE VOLTAGE DROP. ADJUST GROUND WIRE SIZE PER CODE. PROVIDE LUG ADAPTORS IF REQUIRED.
Z	CORRECT/REPAIR EXISTING HAZARD TO MAKE CODE COMPLIANT INSTALLATION.

NOT ALL ABBREVIATIONS ARE USED.

HB13	LB1A
LB13	LB1B
LB1D	

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STATE OF MISSOURI
DOUGLAS M. EVERHART
NUMBER PE-2019007648
PROFESSIONAL ENGINEER

Dec 28 2020
DOUGLAS M. EVERHART
LICENSE # PE-2019007648
1950004111
MO. CORPORATE NO: E-556D
EXPIRES 12/31/2021

REVISIONS

Number	DESCRIPTION	DATE

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/14/2021

PROJECT NO: 0119-0100
DATE: December 29, 2020

Package 2

PANELBOARD SCHEDULES - B BLDG NORTH

E605

Issued for Construction

DOUGLAS M. EVERHART

PANELBOARD: HC11 (NEW)

BUS AMPS: 100A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 480Y/277 V 3P/4W
SUPPLIED BY: MSB-C2

FAULT CURRENT:
AIC RATED: FULLY RATED
AIC RATING:
SERVES:
MOUNTING: SURFACE
LOCATION: Electrical 1153

EQUIPMENT GROUND BUS

LINE-SIDE LUGS: MECHANICAL

CKT NO.	DESCRIPTION	LOAD TYPE	NOTES	WIRE SIZE	BKR AMP	P	PHASE A	PHASE B	PHASE C	P	BKR AMP	WIRE SIZE	NOTES	LOAD TYPE	DESCRIPTION	CKT NO.
1	LTG - 1135, 1150-1154	L Z		12	20	1	598 0			1	20				SPARE	2
3	LTG - FIELDHOUSE LOBBY, STAIRS	L Z		12	20	1		1348 0		1	20				SPARE	4
5	LTG - CAFETERIA 1110 PENDANTS N.	L		12	20	1			1749 0	1	20				SPARE	6
7	LTG - CAFETERIA 1110 PENDANTS S.	L		12	20	1	2490 0			1	20				SPARE	8
9	LTG - CAFETERIA 1110 RECESSED	L		12	20	1		2261 0		1	20				SPARE	10
11	EXT. LTG - FIELDHOUSE SCONCES	L		12	20	1			240 0	1	20				SPARE	12
13	SPARE				20	1	0 0			1	20				SPARE	14
15	SPARE				20	1		0 0		1	20				SPARE	16
17	SPARE				20	1			0 0	1	20				SPARE	18
19	SPARE				20	1	0 0			1	20				SPARE	20
21	SPARE				20	1		0 0		1	20				SPARE	22
23	SPARE				20	1			0 0	1	20				SPARE	24
25	SPARE				20	1	0 3333									26
27	SPARE				20	1		0 3333		3	20	12		H Z	EUH-8	28
29	SPARE				20	1			0 3333							30
31	SPARE				20	1	0 1667			3	15	12		H Z	EUH-6	32
33	SPARE				20	1		0 1667								34
35	SPARE				20	1			0 1667							36
37							7207 1667			3	15	12		H Z	EUH-10	38
39	TXC11 Panel LC11	R Z M		OL	175	3		5271 1667								40
41									4762 1667							42
			TOTAL LOAD (VA):				16962 VA	15547 VA	13418 VA							
			TOTAL AMPS:				62 A	57 A	48 A							

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND
EXISTING LOAD (E)	0 VA	100%	0 VA
COOLING (C)	3244 VA	0%	0 VA
HEATING (H)	20000 VA	100%	20000 VA
LIGHTING (L)	8476 VA	125%	10595 VA
RECEPTACLES (R)	3960 VA	100%	3960 VA
MOTORS (M)	0 VA	100%	0 VA
SUPPLEMENTAL HEAT (U)	0 VA	100%	0 VA
MISC EQUIP (Z)	8750 VA	100%	8750 VA
REFRIGERATION (F)	0 VA	100%	0 VA
SIGN/DISPLAY (D)	0 VA	125%	0 VA
KITCHEN (K)	0 VA	100%	0 VA
LARGEST MOTOR	1496 VA	125%	1870 VA
SHOW WINDOW (W)	0 VA	125%	0 VA
TRACK LIGHTING	0 VA	100%	0 VA

PANELBOARD NOTES

PANELBOARD TOTALS	
TOTAL CONNECTED LOAD	45926 VA
TOTAL NEC LOAD	45175 VA
TOTAL CONNECTED CURRENT	55 A
TOTAL NEC DEMAND CURRENT	54 A

PANELBOARD: HC12 (NEW)

BUS AMPS: 100A
MAIN SIZE/TYPE: 100A M.C.B.
VOLTS/PHASE: 480Y/277 V 3P/4W
SUPPLIED BY: MSB-C2

FAULT CURRENT:
AIC RATED: FULLY RATED
AIC RATING:
SERVES:
MOUNTING: SURFACE
LOCATION: SRO + CS 1103

EQUIPMENT GROUND BUS

LINE-SIDE LUGS: MECHANICAL

CKT NO.	DESCRIPTION	LOAD TYPE	NOTES	WIRE SIZE	BKR AMP	P	PHASE A	PHASE B	PHASE C	P	BKR AMP	WIRE SIZE	NOTES	LOAD TYPE	DESCRIPTION	CKT NO.
1	SPARE				20	1	0 3138			1	20	12		L Z	LTG - BLDG C LVL 1 ADMIN	2
3	SPARE				20	1		0 1871		1	20	12		L Z	LTG - CAFETERIA SOUTH SPACES	4
5	SPARE				20	1			0							6
7	SPARE				20	1	0									8
9	SPARE				20	1		0								10
11	SPARE				20	1			0							12
13	SPARE				20	1	0									14
15	SPARE				20	1		0								16
17	SPARE				20	1			0							18
19	SPARE				20	1	0 0			1					EQUIPPED SPACE	20
21	SPARE				20	1		0 0		1					EQUIPPED SPACE	22
23	EQUIPPED SPACE					1			0 0	1					EQUIPPED SPACE	24
25	EQUIPPED SPACE					1	0 0			1					EQUIPPED SPACE	26
27	EQUIPPED SPACE					1		0 0		1					EQUIPPED SPACE	28
29	EQUIPPED SPACE					1			0 0	1					EQUIPPED SPACE	30
31	EQUIPPED SPACE					1	0 4000									32
33	EQUIPPED SPACE					1		0 2300		3	20	12		Z U	EWH-2	34
35	EQUIPPED SPACE					1			0 2300							36
37							13210 4988									38
39	TXC12	R Z M		OL	70	3		12831 4988		3	25	10		M Z	AHU-D1	40
41									12367 4988							42
			TOTAL LOAD (VA):				25337 VA	21990 VA	19656 VA							
			TOTAL AMPS:				93 A	81 A	71 A							

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND
EXISTING LOAD (E)	0 VA	100%	0 VA
COOLING (C)	3244 VA	100%	3244 VA
HEATING (H)	0 VA	0%	0 VA
LIGHTING (L)	4884 VA	125%	6105 VA
RECEPTACLES (R)	19420 VA	76%	14710 VA
MOTORS (M)	2077 VA	100%	2077 VA
SUPPLEMENTAL HEAT (U)	8600 VA	100%	8600 VA
MISC EQUIP (Z)	13793 VA	100%	13793 VA
REFRIGERATION (F)	0 VA	100%	0 VA
SIGN/DISPLAY (D)	0 VA	125%	0 VA
KITCHEN (K)	0 VA	100%	0 VA
LARGEST MOTOR	14965 VA	125%	18706 VA
SHOW WINDOW (W)	0 VA	125%	0 VA
TRACK LIGHTING	0 VA	100%	0 VA

PANELBOARD NOTES

PANELBOARD TOTALS	
TOTAL CONNECTED LOAD	66983 VA
TOTAL NEC LOAD	67235 VA
TOTAL CONNECTED CURRENT	81 A
TOTAL NEC DEMAND CURRENT	81 A

PANELBOARD: HC22 (NEW)

BUS AMPS: 200A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 480Y/277 V 3P/4W
SUPPLIED BY: MSB-C2

FAULT CURRENT:
AIC RATED: FULLY RATED
AIC RATING:
SERVES:
MOUNTING: SURFACE
LOCATION: Electrical 2026

EQUIPMENT GROUND BUS

LINE-SIDE LUGS: MECHANICAL

CKT NO.	DESCRIPTION	LOAD TYPE	NOTES	WIRE SIZE	BKR AMP	P	PHASE A	PHASE B	PHASE C	P	BKR AMP	WIRE SIZE	NOTES	LOAD TYPE	DESCRIPTION	CKT NO.
1							9617 1350			1	20	10		L	LTG - WEST PARKING LOT	2
3	TXC12	R Z M			20	3		12884 480		1	20	10		L	LTG - WEST LIGHT COLUMNS	4
5									11271 2367	1	20	12		L Z	LTG - LVL 2 ADMIN WEST, LARGE CONF	6
7	LTG - MECH RM NW FIELDHOUSE	L Z		12	20	1	145 1690			1	20	12		L	LTG - CORR 2130 GENERAL AND STAIRS	8
9	LTG - MECH RM NE FIELDHOUSE	L		12	20	1		168 1630		1	20	12		L Z	LTG - CORR 2130 WALLWASH	10
11	LTG - MECH RM SE FIELDHOUSE	L		12	20	1			140							12
13	LTG - MECH RM SW FIELDHOUSE	L		12	20	1	112 1504			1	20	12		L	LTG - CORR 2110 GENERAL AND WW	14
15	LTG - 3101, 3102	L Z		10	20	1		2296 2631		1	20	12		L Z	LTG - HEART 2100 GENERAL, WW, STAIR	16
17	LTG - 3100	L Z		8	20	1			2456 3764	1	20	12		L Z	LTG - LVL 2 ADMIN CORR, OPEN OFFICE	18
19	LTG - 3103, 3104	L Z		10	20	1	2162 829			1	20	12		L	LTG - CORRIDOR/VESTIBULE 1100 LVL 1	20
21																22
23																24
25																26
27																28
29																30
31																32
33																34
35																36
37																38
39																40
41																42
			TOTAL LOAD (VA):				17409 VA	20089 VA	19998 VA							
			TOTAL AMPS:				63 A	74 A	74 A							

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND
EXISTING LOAD (E)	0 VA	100%	0 VA
COOLING (C)	1622 VA	100%	1622 VA
HEATING (H)	0 VA	0%	0 VA
LIGHTING (L)	23314 VA	125%	29143 VA
RECEPTACLES (R)	18540 VA	77%	14270 VA
MOTORS (M)	120 VA	100%	120 VA
SUPPLEMENTAL HEAT (U)	0 VA	100%	0 VA
MISC EQUIP (Z)	10734 VA	100%	10734 VA
REFRIGERATION (F)	0 VA	100%	0 VA
SIGN/DISPLAY (D)	0 VA	125%	0 VA
KITCHEN (K)	0 VA	100%	0 VA
LARGEST MOTOR	166 VA	125%	208 VA
SHOW WINDOW (W)	0 VA	125%	0 VA
TRACK LIGHTING	0 VA	100%	0 VA

PANELBOARD NOTES

PANELBOARD TOTALS	
TOTAL CONNECTED LOAD	54496 VA
TOTAL NEC LOAD	56096 VA
TOTAL CONNECTED CURRENT	66 A
TOTAL NEC DEMAND CURRENT	67 A

PANELBOARD: LC11 (NEW)

BUS AMPS: 100A
MAIN SIZE/TYPE: 100A M.C.B.
VOLTS/PHASE: 208Y/120 V 3P/4W
SUPPLIED BY: HC11 VIA TXC11

FAULT CURRENT:
AIC RATED: FULLY RATED
AIC RATING:
SERVES:
MOUNTING: SURFACE
LOCATION: Electrical 1153

EQUIPMENT GROUND BUS

LINE-SIDE LUGS: MECHANICAL

CKT NO.	DESCRIPTION	LOAD TYPE	NOTES	WIRE SIZE	BKR AMP	P	PHASE A	PHASE B	PHASE C	P	BKR AMP	WIRE SIZE	NOTES	LOAD TYPE	DESCRIPTION	CKT NO.
1	RCPT - 1151 RACK 1	R		12	20	1	360 1000			1	20	12		Z	RCPT - 1151 UPS	2
3	RCPT - 1151 RACK 2	R		12	20	1		360		1	20				SPARE	4
5	RCPT - 1151 RACK 3	R		12	20	1			360 0	1	20				SPARE	6
7	RCPT - 1151 RACK 4	R		12	20	1	360 0			1	20				SPARE	8
9	RCPT - 1151 RACK 5	R		12	20	1		360 0		1	20				SPARE	10
11	RCPT - 1151 RACK 6	R		12	20	1			360 0	1	20				SPARE	12
13	RCPT - 1151 CONVENIENCE	R		12	20	1	720 0			1	20				SPARE	14
15	RCPT - 1150, 1152, 1153	R		12	20	1		900 0		1	20				SPARE	16
17	RCPT - 1110,A EWC N	Z	GF	12	20	1			600 0	1	20				SPARE	18
19	RCPT - 1110,A EWC S	Z	GF	12	20	1	600 0			1	20				SPARE	20
21	PWR - 1110 WON DOOR 1	Z		12	20	1		1000 0		1	20				SPARE	22
23	PWR - 1110 WON DOOR 2	Z		12	20	1			1000 0	1	20				SPARE	24
25	PWR - 1110 WON DOOR 3	Z		10	20	1	1000 0			1	20				SPARE	26
27	PWR - 1110 WON DOOR 4	Z		12	20	1		1000 0		1	20				SPARE	28
29	PWR-SECURITY PANEL	Z		12	20	1			0 100	1	20	12		Z	PWR-MOTORIZED DAMPER	30
31	PWR-RPC111	Z		12	20	1	500 1496			1	20	12		M	GF-1	32
33	PWR-FIRE ALARM AMP	Z	FA	12	20	1		300 180		1	20	12		R	RCPT-ROOFTOP SERVICE	34
35	PWR-FIRE ALARM RPS	Z	FA	12	20	1			360 811	2	15	12		C Z	ACCU-10/CRU-10	36
37	PWR-FIRE ALARM RPS	Z	FA	12	20	1	360 811									38
39	PWR-FIRE ALARM RPS	Z	FA	12	20	1		360 811		2	15	12		C Z	ACCU-16/CRU-16	40
41	PWR-FACP	Z	FA	12	20	1			360 811							42
			TOTAL LOAD (VA):				7207 VA	5271 VA	4762 VA							
			TOTAL AMPS:				61 A	45 A	40 A							

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND
EXISTING LOAD (E)	0 VA	100%	0 VA
COOLING (C)	3244 VA	100%	3244 VA
HEATING (H)	0 VA	0%	0 VA
LIGHTING (L)	0 VA	125%	0 VA
RECEPTACLES (R)	3960 VA	100%	3960 VA
MOTORS (M)	0 VA	100%	0 VA
SUPPLEMENTAL HEAT (U)	0 VA	100%	0 VA
MISC EQUIP (Z)	8540 VA	100%	8540 VA
REFRIGERATION (F)	0 VA	100%	0 VA
SIGN/DISPLAY (D)	0 VA	125%	0 VA
KITCHEN (K)	0 VA	100%	0 VA
LARGEST MOTOR	1496 VA	125%	1870 VA
SHOW WINDOW (W)	0 VA	125%	0 VA
TRACK LIGHTING	0 VA	100%	0 VA

PANELBOARD NOTES

PANELBOARD TOTALS	
TOTAL CONNECTED LOAD	17240 VA
TOTAL NEC LOAD	17614 VA
TOTAL CONNECTED CURRENT	48 A
TOTAL NEC DEMAND CURRENT	49 A

PANELBOARD: LC12 (NEW)

BUS AMPS: 150A
MAIN SIZE/TYPE: 100A M.C.B.
VOLTS/PHASE: 208Y/120 V 3P/4W
SUPPLIED BY: HC12 VIA TXC12

FAULT CURRENT:
AIC RATED: FULLY RATED
AIC RATING:
SERVES:
MOUNTING: SURFACE
LOCATION: Electrical 1103.A

EQUIPMENT GROUND BUS

LINE-SIDE LUGS: MECHANICAL

CKT NO.	DESCRIPTION	LOAD TYPE	NOTES	WIRE SIZE	BKR AMP	P	PHASE A	PHASE B	PHASE C	P	BKR AMP	WIRE SIZE	NOTES	LOAD TYPE	DESCRIPTION	CKT NO.
1	RCPT - 1003	R		12	20	1	900 900			1	20	12		R	RCPT - 1008	2
3	RCPT - 1100 NORTH	R		12	20	1		900 1440		1	20	12		R	RCPT - 1002 TVS/FLR	4
5	RCPT - 1004	R		12	20	1			720 900	1	20	12		R	RCPT - 1002	6
7	RCPT - 1005	R		12	20	1	720 720			1	20	12		R	RCPT - 1010	8
9	RCPT - 1006	R		12	20	1		720 720		1	20	12		R	RCPT - 1010,A	10
11	RCPT - 1007	R		12	20	1			720 1000	1	20	12		Z	CLG RCPT - 1010,A RACK 1	12
13	RCPT - 1009	R		12	20	1	720 1000			1	20	12		Z	CLG RCPT - 1010,A RACK 2	14
15	RCPT - 1011	R		12	20	1		720 1000		1	20	12		Z	CLG RCPT - 1010,A RACK 3	16
17	RCPT - 1013	R		12	20	1			720 1000	1	20	12		Z	CLG RCPT - 1010,A RACK 4	18
19	RCPT - 1015	R		12	20	1	720 900			1	20	12		R	RCPT - 1012, 1012 A/B	20
21	RCPT - 1001 DESK NW	R		12	20	1		540 600		1	20	12		R Z	RCPT - 1012 FRIDGE	22
23	RCPT - 1001 DESK EAST	R		12	20	1			360 800	1	20	12		R	RCPT - 1012 COUNTER W	24
25	RCPT - 1001 COPIER	Z		12	20	1	1000 800			1	20	12		R	RCPT - 1012 COUNTER E	26
27	RCPT - 1001	R		12	20	1		900 1200		1	20	12		Z	RCPT - 1012 MICROWAVE 1	28
29	RCPT - 1012 MICROWAVE 2	Z		12	20	1			1200 1200	1	20	10		Z	PWR - VEST 1100-V DOOR ACTUATORS	30
31	RCPT - 1012,C, 1102	R		12	20	1	720 1200			1	20	10		Z	PWR - VEST 1100-V PEDESTALS	32
33	RCPT - 1103 TVS	R		12	20	1		720 1000		1	20	12		Z	RCPT - 1010,A UPS	34
35	RCPT - 1103, 1103,A	R		12	20	1			1080							36
37	SPARE				20	1	0									38
39	SPARE				20	1		0								40
41	SPARE				20	1			0							42
43	SPARE				20	1	0									44
45	SPARE				20	1		0								46
47	SPARE				20	1			0 576							48
49	SPARE				20	1	0 576			3	15	12		Z M	HWCP D1	50
51	SPARE				20	1		0 576								52
53	SPARE				20	1			0 400	1	20	12		Z	PWR-SECURITY PANEL	54
55	EQUIPPED SPACE					1	0 100			1	20	12	FA	Z	PWR-DUCT DETECTOR	56
57	EQUIPPED SPACE					1		0 400		1	20	12		Z	PWR - BAS PANEL 1010.A	58
59	EQUIPPED SPACE					1			0 120	1	15	12		Z M	EF-8	60
61	EQUIPPED SPACE					1	0 384			1	15	12		Z	VAV-D0116,D0124,D0118,D0119	62
63	EQUIPPED SPACE					1		0 384		1	15	12		Z	VAV-D0120,D0121,D0122,D0123	64
65	EQUIPPED SPACE					1			0 400	1	20	12		Z	PWR-BBH CONTROLS	66
67	EQUIPPED SPACE					1	0 228			1	15	12		Z M	RP-3	68
69	EQUIPPED SPACE					1		0 200		1	20	12		Z	PWR-MOTORIZED DAMPER	70
71	EQUIPPED SPACE					1			0 360	1	20	12		R	RCPT- ROOFTOP SERVICE	72
73	EQUIPPED SPACE					1	0 811			2	12	12		C Z	ACCU-14/CRU-14	74
75	EQUIPPED SPACE					1		0 811								76
77	EQUIPPED SPACE					1			0 811	2	15	12		C Z	ACCU-1/CRU-1	78
79	EQUIPPED SPACE					1	0 811									80
81	EQUIPPED SPACE					1		0 0		2	15	12		Z	ACCU-15/CRU-15	82
83	EQUIPPED SPACE					1			0 0							84
			TOTAL LOAD (VA):				13210 VA	12831 VA	12367 VA							
			TOTAL AMPS:				111 A	108 A	103 A							

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND
EXISTING LOAD (E)	0 VA	100%	0 VA
COOLING (C)	3244 VA	100%	3244 VA
HEATING (H)	0 VA	0%	0 VA
LIGHTING (L)	0 VA	125%	0 VA
RECEPTACLES (R)	19420 VA	76%	14710 VA
MOTORS (M)	348 VA	100%	348 VA
SUPPLEMENTAL HEAT (U)	0 VA	100%	0 VA
MISC EQUIP (Z)	13668 VA	100%	13668 VA
REFRIGERATION (F)	0 VA	100%	0 VA
SIGN/DISPLAY (D)	0 VA	125%	0 VA
KITCHEN (K)	0 VA	100%	0 VA
LARGEST MOTOR	1729 VA	125%	2161 VA
SHOW WINDOW (W)	0 VA	125%	0 VA
TRACK LIGHTING	0 VA	100%	0 VA

PANELBOARD NOTES

PANELBOARD TOTALS	
TOTAL CONNECTED LOAD	38409 VA
TOTAL NEC LOAD	34131 VA
TOTAL CONNECTED CURRENT	107 A
TOTAL NEC DEMAND CURRENT	95 A

PANELBOARD LEGEND

ABBREVIATIONS V1.00

AF	ARC FAULT CIRCUIT INTERRUPTER.
C#	CIRCUIT VIA LIGHTING CONTACTOR #.
CL	CIRCUIT VIA CURRENT LIMITING DEVICE.
D	DISCONNECT CIRCUITRY FOR REMOVED LOAD, UPDATE CIRCUIT DIRECTORY TO SPARE AND TURN OFF.
EM	EMERGENCY LIGHTING HANDLE-ON CLAMP.
EX	EXISTING.
F	FUTURE LOAD; NOTE AS SPARE AND TURN OFF.
FA	RED/HANDLE-ON CLAMP.
GF	GROUND-FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER (5 mA).
GFEP	GROUND FAULT EQUIPMENT PROTECTION BREAKER (30 mA).
HT	PROVIDE HANDLE-TIE FOR MULTI-WIRE BRANCH CIRCUIT PER CODE.
IG	ISOLATED GROUND CIRCUIT.
L#	LIGHTING CONTROL SCHEME NUMBER.
LCK	HANDLE PADLOCKABLE-OFF DEVICE.
LO	HANDLE-ON CLAMP.
N	PROVIDE NEW CIRCUIT BREAKER.
OL	REFER TO ELECTRICAL ONE-LINE/RISER DIAGRAM.
PS	POWER-SWITCHING CIRCUIT BREAKER.
PSE	EMERGENCY POWER-SWITCHING CIRCUIT BREAKER.
R	REUSE EXISTING CIRCUIT BREAKER FOR NEW/REVISED LOAD.
RP	CIRCUIT VIA RELAY PANEL.
ST	SHUNT TRIP CIRCUIT BREAKER.
V	VERIFY EXISTING LOAD AND UPDATE DIRECTORY, IF UNUSED, NOTE AS SPARE AND TURN OFF.
VD	BRANCH CIRCUITRY HAS BEEN UPSIZED TO REDUCE VOLTAGE DROP. ADJUST GROUND WIRE SIZE PER CODE. PROVIDE LUG ADAPTORS IF REQUIRED.
Z	CORRECT/REPAIR EXISTING HAZARD TO MAKE CODE COMPLIANT INSTALLATION.

NOT ALL ABBREVIATIONS ARE USED.

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phoenix • san francisco

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STATE OF MISSOURI
DOUGLAS M. EVERHART
NUMBER PE-2019007648
PROFESSIONAL ENGINEER

Dec 28 2020
DOUGLAS M. EVERHART
LICENSE # PE-2019007648
1950004111
MO, CORPORATE NO: E-555D
EXPIRES 12/31/2021

REVISIONS

Number	DESCRIPTION	DATE

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/14/2021

PROJECT NO: 0119-0100
DATE: December 29, 2020

Package 2

PANELBOARD SCHEDULES - C BLDG SERVICE 2

E610

Issued for Construction

HC11	LC11
HC12	LC12
HC22	LC22

DOUGLAS M. EVERHART

PANELBOARD: HB12 (NEW)

BUS AMPS: 200A
MAIN SIZE/TYPE: 200A M.C.B.
VOLTS/PHASE: 480Y/277 V 3P/4W
SUPPLIED BY: MSB-C2

FAULT CURRENT:
AIC RATED: FULLY RATED
AIC RATING:
SERVES:
MOUNTING: SURFACE
LOCATION: Data 1648

EQUIPMENT GROUND BUS

LINE-SIDE LUGS: MECHANICAL

CKT NO.	DESCRIPTION	LOAD TYPE	NOTES	WIRE SIZE	BKR AMP	P	PHASE A	PHASE B	PHASE C	P	BKR AMP	WIRE SIZE	NOTES	LOAD TYPE	DESCRIPTION	CKT NO.
1	LTG - GREENWAY COLUMNS	L		12	20	1	1104 1000			1	20	20		Z U	EWH-1	2
3	LTG - 1641, 1643, 1645, 1647	L Z		12	20	1		1639 2352		1	20	10		L Z	LTG - 1502, 1503, 1504	4
5	LTG - EAST ENTRY AND BRIDGE	L		12	20	1			2288 2351	1	20	12		L Z	LTG - 1505, 1506, 1508	6
7	CROSSOVER CENTER 1510	L		12	20	1	3254 0			1	20				SPARE	8
9	LTG - ACTIVITY CENTER 1510, VEST 1500	L		12	20	1		1228 0		1	20				SPARE	10
11	SPARE				20	1			0 0	1	20				SPARE	12
13	SPARE				20	1	0 0			1	20				SPARE	14
15	SPARE				20	1		0 0		1	20				SPARE	16
17	SPARE				20	1			0 0	1	20				SPARE	18
19	SPARE				20	1	0 0			1	20				SPARE	20
21	SPARE				20	1		0 0		1	20				SPARE	22
23	SPARE				20	1			0 0	1	20				SPARE	24
25	SPARE				20	1	0 0			1	20				SPARE	26
27	SPARE				20	1		0 0		1	20				SPARE	28
29	SPARE				20	1			0 0	1	20				SPARE	30
31							0 9422									32
33	DC 1 (DUST COLLECTOR)	Z		12	20	3		0 9422		3	40	8		M Z	AHU-D2	34
35									0 9422							36
37							33851 9422									38
39	TXLB12, PANEL LB12	R Z M		OL	175	3		33543 9422		3	40	8		M Z	AHU-D3	40
41									33292 9422							42

	PHASE A	PHASE B	PHASE C
TOTAL LOAD (VA):	58054 VA	57606 VA	56776 VA
TOTAL AMPS:	210 A	208 A	205 A

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND
EXISTING LOAD (E)	0 VA	100%	0 VA
COOLING (C)	1622 VA	100%	1622 VA
HEATING (H)	0 VA	0%	0 VA
LIGHTING (L)	14156 VA	125%	17695 VA
RECEPTACLES (R)	73020 VA	57%	41510 VA
MOTORS (M)	33489 VA	100%	33489 VA
SUPPLEMENTAL HEAT (U)	1000 VA	100%	1000 VA
MISC EQUIP (Z)	20884 VA	100%	20884 VA
REFRIGERATION (F)	0 VA	100%	0 VA
SIGN/DISPLAY (D)	0 VA	125%	0 VA
KITCHEN (K)	0 VA	125%	0 VA
LARGEST MOTOR	28267 VA	125%	35334 VA
SHOW WINDOW (W)	0 VA	125%	0 VA
TRACK LIGHTING	0 VA	100%	0 VA

PANELBOARD NOTES

PANELBOARD TOTALS	
TOTAL CONNECTED LOAD	172438 VA
TOTAL NEC LOAD	151534 VA
TOTAL CONNECTED CURRENT	207 A
TOTAL NEC DEMAND CURRENT	182 A

PANELBOARD: HB22 (NEW)

BUS AMPS: 200A
MAIN SIZE/TYPE: 200A M.C.B.
VOLTS/PHASE: 480Y/277 V 3P/4W
SUPPLIED BY: MSB-C2

FAULT CURRENT:
AIC RATED: FULLY RATED
AIC RATING:
SERVES:
MOUNTING: SURFACE
LOCATION: Electrical 2521

EQUIPMENT GROUND BUS

LINE-SIDE LUGS: MECHANICAL

CKT NO.	DESCRIPTION	LOAD TYPE	NOTES	WIRE SIZE	BKR AMP	P	PHASE A	PHASE B	PHASE C	P	BKR AMP	WIRE SIZE	NOTES	LOAD TYPE	DESCRIPTION	CKT NO.
1	LTG - INNOVATION WAY WALKWAY	L		12	20	1	1323 1835			1	20	12		L Z	LTG - 2649, 2648, 2646, 2521, 2644, 2642	2
3	LTG - INNOVATION WAY WALLWASH	L		12	20	1		1449 3654		1	20	12		L	LTG - LIBRARY 2510	4
5	LTG - 2641, 2512, 2643, 2645, 2647, 2517	L Z			20	1			4314 1162	1	20	12		L Z	LTG - FLEX SPACES 2513-2516	6
7	EXT, LTG - TERRACE SCONCES	L		12	20	1	240 1695			1	20	12		L	LTG - ACT 2560, STAIR 2640, LIB, PERIM.	8
9								2711		1	20	12		L Z	LTG - MEDIA 2501, LEARNING STAIR, IT	10
11															2502	12
13																14
15																16
17																18
19																20
21																22
23																24
25																26
27																28
29																30
31							2106									32
33	RF-D3	Z M		12	15	3		2106								34
35									2106							36
37							11721 39324									38
39	TXB22	R Z		OL	175	3		12559 39324		3	150	OL		--	RTU-B9	40
41									12546 39324							42

	PHASE A	PHASE B	PHASE C
TOTAL LOAD (VA):	58244 VA	61803 VA	59452 VA
TOTAL AMPS:	210 A	224 A	215 A

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND
EXISTING LOAD (E)	0 VA	100%	0 VA
COOLING (C)	96025 VA	100%	96025 VA
HEATING (H)	13 VA	0%	0 VA
LIGHTING (L)	18203 VA	125%	22754 VA
RECEPTACLES (R)	24740 VA	70%	17370 VA
MOTORS (M)	6319 VA	100%	6319 VA
SUPPLEMENTAL HEAT (U)	0 VA	100%	0 VA
MISC EQUIP (Z)	9022 VA	100%	9022 VA
REFRIGERATION (F)	0 VA	100%	0 VA
SIGN/DISPLAY (D)	0 VA	125%	0 VA
KITCHEN (K)	0 VA	100%	0 VA
LARGEST MOTOR	25191 VA	125%	31489 VA
SHOW WINDOW (W)	0 VA	125%	0 VA
TRACK LIGHTING	0 VA	100%	0 VA

PANELBOARD NOTES

PANELBOARD TOTALS	
TOTAL CONNECTED LOAD	179513 VA
TOTAL NEC LOAD	182979 VA
TOTAL CONNECTED CURRENT	216 A
TOTAL NEC DEMAND CURRENT	220 A

PANELBOARD: LB12 (NEW)

BUS AMPS: 400A
MAIN SIZE/TYPE: 200A M.C.B.
VOLTS/PHASE: 208Y/120 V 3P/4W
SUPPLIED BY: HB12 VIA TXB12

FAULT CURRENT:
AIC RATED: FULLY RATED
AIC RATING:
SERVES:
MOUNTING: SURFACE
LOCATION: Data 1648

EQUIPMENT GROUND BUS

LINE-SIDE LUGS: MECHANICAL

CKT NO.	DESCRIPTION	LOAD TYPE	NOTES	WIRE SIZE	BKR AMP	P	PHASE A	PHASE B	PHASE C	P	BKR AMP	WIRE SIZE	NOTES	LOAD TYPE	DESCRIPTION	CKT NO.
1	RCPT - 1605 TVS	R		12	20	1	720 1080			1	20	12		R	RCPT - 1646 TVS	2
3	RCPT - 1601, CORRIDORS TVS	R		12	20	1		720 720		1	20	12		R	RCPT - 1646 GENERAL	4
5	RCPT - 1642 EAST	R		12	20	1			720 1440	1	20	12		R	FLR RCPT - 1646 NW	6
7	RCPT - 1642 TVS	R		12	20	1	1080 1440			1	20	12		R	FLR RCPT - 1646 NE	8
9	RCPT - 3D PRINTER	Z		12	20	1		1200 1440		1	20	12		R	FLR RCPT - 1646 SW	10
11	RCPT - GLOWFORGE	Z		12	20	1			1200 1440	1	20	12		R	FLR RCPT - 1646 CENTER W	12
13	RCPT - 1642 PLOTTER	Z		12	20	1	1200 1440			1	20	12		R	FLR RCPT - 1646 CENTER E	14
15	RCPT - 1644 BAND SAW	R		12	20	1		1500 1440		1	20	12		R	FLR RCPT - 1646 SE	16
17	RCPT - 1644 SANDERS NORTH	R		12	20	1			1000 960	1	20	12		Z	PWR - SHADES EAST WALL	18
19	RCPT - 1644 SANDERS SOUTH	R		12	20	1	1000 720			1	20	12		R	FLR RCPT - 1641 NW	20
21	RCPT - 1644 SCROLL SAW 1	R		12	20	1		1500 720		1	20	12		R	FLR RCPT - 1641 NW	22
23	RCPT - 1644 SCROLL SAW 2	R		12	20	1			1500 720	1	20	12		R	FLR RCPT - 1641 N CENTER	24
25	RCPT - 1644 DRILL PRESS 1	R		12	20	1	1000 720			1	20	12		R	FLR RCPT - 1641 SW	26
27	RCPT - 1644 DRILL PRESS 2	R		12	20	1		1000 720		1	20	12		R	FLR RCPT - 1641 SW	28
29	RCPT - 1644	R		12	20	1			540 720	1	20	12		R	FLR RCPT - 1641 S CENTER	30
31	FLR RCPT - 1642 NW	R		12	20	1	720 360			1	20	12		R	RCPT - 1641 SW	32
33	FLR RCPT - 1642 SW	R		12	20	1		720 540		1	20	12		R	RCPT - 1641 SE	34
35	FLR RCPT - 1642 N CENTER	R		12	20	1			720 900	1	20	12		R	RCPT - 1641 GENERAL	36
37	FLR RCPT - 1642 CENTER S	R		12	20	1	720 1080			1	20	12		R	RCPT - 1641, 1643 1510 NE TVS	38
39	FLR RCPT - 1642 NE	R		12	20	1		720 1080		1	20	12		R	RCPT - 1640,A PORCH	40
41	FLR RCPT - 1642 SE	R		12	20	1			720 1260	1	20	12		R	RCPT - 1645, 1647	42
43	PWR - 1610 WON DOOR	M		10	20	1	1200 1260			1	20	12		R	RCPT - 1502 GENERAL	44
45	RCPT - 1510 WEST	R		12	20	1		720 720		1	20	12		R	FLR RCPT - 1502 NW	46
47	PWR - 1510 SHADES SE 1	Z		10	20	1			1200 720	1	20	12		R	FLR RCPT - 1502 NE	48
49	PWR - 1510 SHADES SE 2	Z		12	20	1	960 1440			1	20	12		R	FLR RCPT - 1502 S	50
51	FLR RCPT - 1510 CENTER	R		12	20	1		0 500		1	20	12		Z	PWR - 1502 AV RACK	52
53	RCPT - 1510 ISLAND	R		12	20	1			720 1260	1	20	12		R	RCPT - 1502.A/B, 1505	54
55	RCPT - LOWER GATHERING STAIR	R		12	20	1	1080 540			1	20	12		R	RCPT - 1502.A COUNTER	56
57	RCPT - UPPER GATHERING STAIR	R		12	20	1		1080 1080		1	20	12		R	RCPT - 1502.A EAST	58
59	RCPT - 1503 TVS NW	R		12	20	1			1080 500	1	20	12		Z	PWR - 1502.A AV RACK	60
61	RCPT - 1503 TVS S	R		12	20	1	720 720			1	20	12		R	RCPT - 1505 NORTH	62
63	RCPT - 1503 GENERAL	R		12	20	1		1440 720		1	20	12		R	RCPT - 1502.B SOUTH	64
65	PWR - 1502 PROJ SCREEN	R		12	20	1			180 1260	1	20	12		R	RCPT - 1506	66
67	CLG RCPT - 1502 PROJECTOR	R		12	20	1	360 1080			1	20	12		R	CLG RCPT - 1506 WEST	68
69	RCPT - 1642 NW WALL	R		12	20	1		720 720		1	20	12		R	RCPT - 1642 N WALL	70
71	RCPT - 1642 NE WALL	R		12	20	1			720 720	1	20	12		R	FLR RCPT - 1642 WEST CENTER	72
73	FLR RCPT - 1642 CENTER	R		12	20	1	720 720			1	20	12		R	FLR RCPT - 1642 EAST CENTER	74
75	FLR RCPT - 1502 TEACHER DESK	R		12	20	1		720 360		1	20	12		R	RCPT - 1502 NW WALL	76
77	RCPT - 1502 NE WALL	R		12	20	1			360 800	1	20	10		R	RCPT - 2612 NW WALL	78
79	RCPT - 2617 SW WALL	R		12	20	1	720 480			1	20	12		Z	PWR - DIGITAL CLOCKS 1640	80
81	PWR - VEST 1500-V DOOR ACTUATORS	Z		8	20	1		1200 1200		1	20	8		Z	PWR - VEST 1500 PEDESTALS	82
83	PWR - LEARNING STAIR AV RACK 1	Z		12	20	1			500 0	1	20				SPARE	84
85	CLG RCPT - 1506 CENTER	R			20	1	1080 0			1	20				SPARE	86
87	CLG RCPT - 1506 TVS	R		12	20	1		1080 0		1	20				SPARE	88
89	CLG RCPT - 1506 EAST	R		12	20	1			1080 916	1	15	12		Z M	EF-36 & DAMPER	90
91	RCPT - 1508	R		12	20	1	1080 400			1	20	12	FA	Z	PWR -FIRE SMOKE DAMPERS	92
93	RCPT - 1508, 1509 TVS	R		12	20	1		900 800		1	20	12	FA	Z	PWR-DUCT DECTECTORS	94
95	PWR - GREEN WAY DOOR N	Z		10	20	1			1000 400	1	20	12		Z	PWR-BBH CONTROLS	96
97	PWR - GREEN WAY DOOR CTR	Z		10	20	1	1000 800			1	20	12		Z	PWR-MOTORIZED DAMPERS	98
99	RCPT - 1507, 1509, 1510	R		12	20	1		900 120		1	15	12		Z M	EF-22	100
101	PWR - GREEN WAY DOOR S	Z		12	20	1			1000 400	1	20	12		Z	PWR-RPB12	102
103	FLR RCPT - 1641 NE	R			20	1	720 384			1	15	12		Z	VAV-B0905,B0906,B0912,B0913	104
105	FLR RCPT - 1641 NE	R		12	20	1		720 384		1	15	12		Z	VAV-B0901,B0902,B0903,B0904	106
107	FLR RCPT - 1641 SE	R			20	1			720 400	1	20	12		Z	PWR - BAS PANEL 1647.1	108
109	FLR RCPT - 1641 SE	R		12	20	1	720 400			1	20	12		Z	PWR - BAS PANEL 1647.2	110
111	PWR - LEARNING STAIR AV RACK 2	Z		12	20	1		500 576		1	15	12		Z	VAV-D0301-D0305,D0309	112
113	RCPT - 1508 TVS	R		12	20	1			900 384	1	15	12		Z	VAV-D0306-D0308,D0310	114
115							24			1	20	12		Z M	PWR-BBH CONTROLS	116
117								400		1	20	12		Z	PWR-BBH CONTROLS	118
119									900	1	20	12		R	RCPT - 1642, 1643	120
121							1153 811			2	15	12		C Z	ACCU-25/CRU-25	122
123	HWCP D2 & D3	Z M		12	15	3		1153 811								124
125									1153 180	1	20	12		R	RCPT-ROOFTOP SERVICE	126

	PHASE A	PHASE B	PHASE C
TOTAL LOAD (VA):	33851 VA	33543 VA	33292 VA
TOTAL AMPS:	282 A	280 A	277 A

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND
EXISTING LOAD (E)	0 VA	100%	0 VA
COOLING (C)	1622 VA	100%	1622 VA
HEATING (H)	0 VA	0%	0 VA
LIGHTING (L)	0 VA	125%	0 VA
RECEPTACLES (R)	73020 VA	57%	41510 VA
MOTORS (M)	1764 VA	100%	1764 VA
SUPPLEMENTAL HEAT (U)	0 VA	100%	0 VA
MISC EQUIP (Z)	20824 VA	100%	20824 VA
REFRIGERATION (F)	0 VA	100%	0 VA
SIGN/DISPLAY (D)	0 VA	125%	0 VA
KITCHEN (K)	0 VA	100%	0 VA
LARGEST MOTOR	3458 VA	125%	4323 VA
SHOW WINDOW (W)	0 VA	125%	0 VA
TRACK LIGHTING	0 VA	100%	0 VA

PANELBOARD NOTES

PANELBOARD TOTALS	
TOTAL CONNECTED LOAD	100688 VA
TOTAL NEC LOAD	70043 VA
TOTAL CONNECTED CURRENT	279 A
TOTAL NEC DEMAND CURRENT	194 A

PANELBOARD: LB22 (NEW)

BUS AMPS: 225A
MAIN SIZE/TYPE: 200A M.C.B.
VOLTS/PHASE: 208Y/120 V 3P/4W
SUPPLIED BY: HB22 VIA TXB22

FAULT CURRENT:
AIC RATED: FULLY RATED
AIC RATING:
SERVES:
MOUNTING: SURFACE
LOCATION: Electrical 2521

EQUIPMENT GROUND BUS

LINE-SIDE LUGS: MECHANICAL

CKT NO.	DESCRIPTION	LOAD TYPE	NOTES	WIRE SIZE	BKR AMP	P	PHASE A	PHASE B	PHASE C	P	BKR AMP	WIRE SIZE	NOTES	LOAD TYPE	DESCRIPTION	CKT NO.
1	RCPT - 2511, 2510 COUNTERTOP	R		10	20	1	1080 0			1	20				SPARE	2
3	FLR RCPT - 2510	R		12	20	1		720 0		1	20				SPARE	4
5	RCPT - 2517, 2520	R		12	20	1			900 0	1	20				SPARE	6
7	RCPT - 2515, 2516	R		12	20	1	720 0			1	20				SPARE	8
9	RCPT - 2515, 2513, 2514	R		10	20	1		1080 0		1	20				SPARE	10
11	PWR -	Z		10	20	1			1200 0	1	20				SPARE	12
13	RCPT - 2641, 2513, 2514 TVS	R		10	20	1	1080 0			1	20				SPARE	14
15	RCPT - 2641, 2515, 2516	R		12	20	1		1080 0		1	20				SPARE	16
17	RCPT - COUNTER 2520	R		12	20	1			720 0	1	20				SPARE	18
19	RCPT - 2522, 2521, 2647, 2649	R		12	20	1	1620 0			1	20				SPARE	20
21	RCPT - 2517, 2647	R		12	20	1		1080 0		1	20				SPARE	22
23	RCPT - 2645, 2520 TVS	R		12	20	1			1160 0	1	20				SPARE	24
25	RCPT - 2649, 2648, 2646 TVS	R		12	20	1	1080 0			1	20				SPARE	26
27	RCPT - 2645	R		12	20	1		900 0		1	20				SPARE	28
29	RCPT - 2645, 2643 TVS	R		12	20	1			1080 0	1	20				SPARE	30
31	RECEPTACLES	R		12	20	1	1080 0			1	20				SPARE	32
33	RCPT - 2641 TVS	R		10	20	1		1080 0		1	20				SPARE	34
35	RCPT - 2641	R		12	20	1			900 0	1	20				SPARE	36
37	RCPT - 2640,A EAST	R		12	20	1	720 0			1	20				SPARE	38
39	RCPT - 2640,A WEST	R		12	20	1		720 0		1	20				SPARE	40
41	RCPT - 2642, 2644 TVS	R		12	20	1			1080 0	1	20				SPARE	42
43	RCPT - 2642, 2640 TVS	R		12	20	1	720 0			1	20				SPARE	44
45	RCPT - 2642, 2644	R		12	20	1		1080 0		1	20				SPARE	46
47	RCPT - 2643	R		12	20	1			540 0	1	20				SPARE	48
49	RCPT - 2510 SOUTH WALL	R		12	20	1	1080 0			1	20				SPARE	50
51	FLR RCPT - 252	R		12	20	1		360 0		1	20				SPARE	52
53	RCPT - 2150 COPIER	Z		12	20	1			1000 0	1	20				SPARE	54
55	PWR - DIGITAL CLOCK 2640	Z		12	20	1	240 0			1	20				SPARE	56
57	RCPT - 2500 CONVENIENCE	R		12	20	1		540 0		1	20				SPARE	58
59	SPARE				20	1			0 960	1	20	10		Z	PWR - LEARNING STAIR SHADES	60
61	SPARE				20	1	0 960			1	20	12		Z	PWR - ACTIVITY CENTER SHADES	62
63	SPARE				20	1		0 288		1	20	12		Z	VAV-D0202,D0205,D0210	64
65	SPARE				20	1			0 384	1	20	12		Z	VAV-D0201,D0203,D0204,D0206	66
67	SPARE				20	1	0 192			1	20	12		Z	VAV-D0207, D0209	68
69	SPARE				20	1		0 1600		1	20	12		Z	PWR-BBH CONTROLS	70
71	SPARE				20	1			0 400	1	20	12		Z	PWR-IH-D2	72
73	SPARE				20	1	0 50			1	20	12		Z	RH-C4, RH-D2	74
75	PWR-BBH CONTROLS	Z		12	20	1		200 540		1	20	12		R	RCPT-ROOFTOP SERVICE	76
77	PWR-MOTORIZED DAMPERS	Z		12	20	1			200 811	2	15	12		C Z	ACCU-11/CRU-11	78
79	VAV-B1101-B1103	Z		12	15	1	288 811									80
81	VAV-B1105-B1109	Z		12	15	1		480 811		2	15	12		C Z	ACCU-27/CRU-27	82
83	PWR-RPB22	Z		12	20	1			400 811							84

	PHASE A	PHASE B	PHASE C
TOTAL LOAD (VA):	11721 VA	12559 VA	12546 VA
TOTAL AMPS:	98 A	106 A	106 A

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND
EXISTING LOAD (E)	0 VA	100%	0 VA
COOLING (C)	3244 VA	100%	3244 VA
HEATING (H)	0 VA	0%	0 VA
LIGHTING (L)	0 VA	125%	0 VA
RECEPTACLES (R)	24740 VA	70%	17370 VA
MOTORS (M)	0 VA	100%	0 VA
SUPPLEMENTAL HEAT (U)	0 VA	100%	0 VA
MISC EQUIP (Z)	8842 VA	100%	8842 VA
REFRIGERATION (F)	0 VA	100%	0 VA
SIGN/DISPLAY (D)	0 VA	125%	0 VA
KITCHEN (K)	0 VA	100%	0 VA
LARGEST MOTOR	0 VA	125%	0 VA
SHOW WINDOW (W)	0 VA	125%	0 VA
TRACK LIGHTING	0 VA	100%	0 VA

PANELBOARD NOTES

PANELBOARD TOTALS	
TOTAL CONNECTED LOAD	36826 VA
TOTAL NEC LOAD	29456 VA
TOTAL CONNECTED CURRENT	102 A
TOTAL NEC DEMAND CURRENT	82 A

PANELBOARD LEGEND

ABBREVIATIONS V1.00

AF	ARC FAULT CIRCUIT INTERRUPTER.
C#	CIRCUIT VIA LIGHTING CONTACTOR #.
CL	CIRCUIT VIA CURRENT LIMITING DEVICE.
D	DISCONNECT CIRCUITRY FOR REMOVED LOAD, UPDATE CIRCUIT DIRECTORY TO SPARE AND TURN OFF.
EM	EMERGENCY LIGHTING HANDLE-ON CLAMP.
EX	EXISTING.
F	FUTURE LOAD; NOTE AS SPARE AND TURN OFF.
FA	RED/HANDLE-ON CLAMP.
GF	GROUND-FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER (5 mA).
GFEP	GROUND FAULT EQUIPMENT PROTECTION BREAKER (30 mA).
HT	PROVIDE HANDLE-TIE FOR MULTI-WIRE BRANCH CIRCUIT PER CODE.
IG	ISOLATED GROUND CIRCUIT.
L#	LIGHTING CONTROL SCHEME NUMBER.
LCK	HANDLE PADLOCKABLE-OFF DEVICE.
LO	HANDLE-ON CLAMP.
N	PROVIDE NEW CIRCUIT BREAKER.
OL	REFER TO ELECTRICAL ONE-LINE/RISER DIAGRAM.
PS	POWER-SWITCHING CIRCUIT BREAKER.
PSE	EMERGENCY POWER-SWITCHING CIRCUIT BREAKER.
R	REUSE EXISTING CIRCUIT BREAKER FOR NEW/REVISED LOAD.
RP	CIRCUIT VIA RELAY PANEL.
ST	SHUNT TRIP CIRCUIT BREAKER.
V	VERIFY EXISTING LOAD AND UPDATE DIRECTORY, IF UNUSED, NOTE AS SPARE AND TURN OFF.
VD	BRANCH CIRCUITRY HAS BEEN UPSIZED TO REDUCE VOLTAGE DROP; ADJUST GROUND WIRE SIZE PER CODE. PROVIDE LUG ADAPTORS IF REQUIRED.
Z	CORRECT/REPAIR EXISTING HAZARD TO MAKE CODE COMPLIANT INSTALLATION.

NOT ALL ABBREVIATIONS ARE USED.

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phoenix • san francisco

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STATE OF MISSOURI
DOUGLAS M. EVERHART
NUMBER PE-2019007648
PROFESSIONAL ENGINEER

Dec 28 2020
DOUGLAS M. EVERHART
LICENSE # PE-2019007648
1950004111
MO, CORPORATE NO.: E-556D
EXPIRES 12/31/2021

REVISIONS

Number	DESCRIPTION	DATE

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

01/14/2021

PROJECT NO: 0119-0100
DATE: December 29, 2020

Package 2

PANELBOARD SCHEDULES - C BLDG SERVICE 2

E611

Issued for Construction

HB12	HB22
LB12	LB22

DOUGLAS M. EVERHART

LIGHT FIXTURE SCHEDULE - 1 OF 1

TYPE	MANUFACTURER / MODEL #	APPROVED ALTERNATES	LAMPING / LIGHT SOURCE	DIMMING TYPE	VOLT	INPUT WATTS	INPUT VA	DESCRIPTION	NOTES
A1 A1E	LITHONIA LIGHTING A1: 2ALL4CTRF-40L-GZ1-LP935 A1E: 2ALL4CTRF-40L-GZ1-LP935-EL14L	COLUMBIA LCAT SERIES METALUX CRUZ ST SERIES SIGNIFY FLUXGRID SERIES	LED PER MANUFACTURER 90 CRI, 3500K 4000 LUMENS 60,000 HOURS	0-10V	120/277	32	36	2'X4' RECESSED LED STATIC TROFFER SUITABLE FOR LAY-IN GRID CEILINGS. NOMINAL 3-3/4" DEEP 22-GAUGE COLD ROLLED STEEL HINGED FRAME PERMITTING ACCESS TO ELECTRICAL COMPONENTS FROM BELOW WITH MATTE WHITE POLYESTER POWDER COAT FINISH. DIFFUSE CENTRAL RIBBED ACRYLIC LENS CONCEALING LEDS WITHIN CURVED PRIMARY DEFLECTOR. PROVIDE WITH 0-10V DRIVER CAPABLE OF 100%-1% DIMMING. HIGH CRI LEDS. A2\1	
A2	LITHONIA LIGHTING A2: 2ALL2CTRF-40L-GZ1-LP935 A2E: 2ALL2CTRF-40L-GZ1-LP935-EL14L	COLUMBIA LCAT SERIES METALUX CRUZ ST SERIES SIGNIFY FLUXGRID SERIES	LED PER MANUFACTURER 90 CRI, 3500K 4000 LUMENS 60,000 HOURS	0-10V	120/277	38	42	2'X2' RECESSED LED STATIC TROFFER SUITABLE FOR LAY-IN GRID CEILINGS. NOMINAL 3-3/4" DEEP 22-GAUGE COLD ROLLED STEEL HINGED FRAME PERMITTING ACCESS TO ELECTRICAL COMPONENTS FROM BELOW WITH MATTE WHITE POLYESTER POWDER COAT FINISH. DIFFUSE CENTRAL RIBBED ACRYLIC LENS CONCEALING LEDS WITHIN CURVED PRIMARY DEFLECTOR. PROVIDE WITH 0-10V DRIVER CAPABLE OF 100%-1% DIMMING. HIGH CRI LEDS.	
A3	LITHONIA LIGHTING A3: 2GTL-4-60L-A12125-GZ1-LP835 A3E: 2GTL-4-60L-A12125-GZ1-LP835-EL14L	COLUMBIA LLT SERIES HE WILLIAMS 50 LED SERIES SIGNIFY DAYLED SERIES	LED PER MANUFACTURER 90 CRI, 3500K 6000 LUMENS 72,000 HOURS	0-10V	120/277	49	54	2'X4' RECESSED LED STATIC TROFFER SUITABLE FOR LAY-IN GRID CEILINGS. NOMINAL 3-1/4" DEEP 22-GAUGE COLD ROLLED STEEL FRAME WITH MATTE WHITE POLYESTER POWDER COAT FINISH. FROSTED ACRYLIC, PATTERN #12, 0.125" THICK LENS SUITABLE FOR WIPE-DOWN APPLICATIONS. PROVIDE WITH 0-10V DRIVER CAPABLE OF 100%-1% DIMMING. HIGH CRI LEDS.	
C1	ACOLYTE RIBBONLYTE CHANNEL SERIES CHAS3-M-90-SWS220-6.0-35-x-TILTSTANDST	KELVIX PERF. INDOOR (W/ CH502)	LED PER MANUFACTURER 90 CRI, 3500K 730 LM/FT	NON-DIM	120/277	RE. DWGS	RE. DWGS	FLEXIBLE STATIC-WHITE LED TAPE WITH 1" WIDE X 0.42" TALL EXTRUDED ALUMINUM CHANNEL YIELDING SYMMETRIC 120 DEGREE BEAM. MILKY LENS WITH 70% TRANSMITTANCE FULLY DIFFUSING LED IMAGE. PROVIDE TILTABLE STAND MOUNTING ACCESSORY FOR ALL LED TAPE SECTIONS. PROVIDE ALL HARDWARE SO THAT CHANNEL IS MECHANICALLY AFFIXED TO MOUNTING SURFACE.	
C2	ACOLYTE RIBBONLYTE CHANNEL SERIES CHAC2-M-90-SWS220-4.4-35-x	KELVIX PERF. INDOOR (W/ CH006)	LED PER MANUFACTURER 90 CRI, 3500K 535 LM/FT	0-10V	120/277	RE. DWGS	RE. DWGS	FLEXIBLE STATIC-WHITE LED TAPE WITH 0.63" WIDE X 0.63" TALL EXTRUDED ALUMINUM CORNER CHANNEL SUITABLE FOR CORNER MOUNTING YIELDING SYMMETRIC 120 DEGREE BEAM AT 45 DEGREE FFROM NORMAL. MILKY LENS WITH 70% TRANSMITTANCE FULLY DIFFUSING LED IMAGE. PROVIDE ALL HARDWARE SO THAT CHANNEL IS MECHANICALLY AFFIXED TO MOUNTING SURFACE.	
D1 D1W	GOTHAM EVO 2IN DOWNLIGHT EVO2-35/10-AR-LSS-WD-MVOLT-UGZ-90CRI	HE WILLIAMS 2DR SERIES HUBBELL LITEISTRY SERIES SIGNIFY LIGHTOLIER SERIES	LED PER MANUFACTURER 90 CRI, 3500K 1000 LUMENS	0-10V	120/277	13	15	NOMINAL 2-7/8" DIAMETER 5-1/8" DEEP RECESSED LED DOWNLIGHT WITH WIDE DISTRIBUTION. SEMI-SPECULAR FINISH AND NEW CONSTRUCTION HOUSING. PROVIDE WITH 0-10V DRIVER CAPABLE OF 100%-1% DIMMING. HIGH CRI LEDS. 60000 HOUR RATED MINIMUM. D1W: SAME AS TYPE D1 EXCEPT WITH OPEN WALLWASH CORE.	
D2 D2E	GOTHAM EVO4LW-35/10-AR-LSS-MVOLT-GZ1-CRI90-(EL)	HE WILLIAMS 4DR SERIES HUBBELL LITEISTRY SERIES SIGNIFY LIGHTOLIER SERIES	LED PER MANUFACTURER 90 CRI, 3500K 1000 LUMENS	0-10V	120/277	9	10	NOMINAL 4" DIAMETER 6-7/8" DEEP RECESSED LED DOWNLIGHT WITH WALL WASH DISTRIBUTION. CLEAR SELF-FLANGED TRIM WITH SEMI-SPECULAR REFLECTOR AND NEW CONSTRUCTION HOUSING. PROVIDE WITH 0-10V DRIVER CAPABLE OF 100%-1% DIMMING. HIGH CRI LEDS. 60000 HOUR RATED MINIMUM. D2E: PROVIDE WITH INTEGRAL 10W EM BATTERY AND TEST SWITCH.	
D3 D3E	GOTHAM EVO4-35/10-AR-WD-LSS-MVOLT-GZ1-90CRI-(EL)	HE WILLIAMS 4DR SERIES HUBBELL LITEISTRY SERIES SIGNIFY LIGHTOLIER SERIES	LED PER MANUFACTURER 90 CRI, 3500K 1000 LUMENS	0-10V	120/277	9	10	NOMINAL 4" DIAMETER 6-7/8" DEEP RECESSED LED DOWNLIGHT WITH WIDE DISTRIBUTION. CLEAR SELF-FLANGED TRIM WITH SEMI-SPECULAR REFLECTOR AND NEW CONSTRUCTION HOUSING. PROVIDE WITH 0-10V DRIVER CAPABLE OF 100%-1% DIMMING. HIGH CRI LEDS. 60000 HOUR RATED MINIMUM. D3E: PROVIDE WITH INTEGRAL 10W EM BATTERY AND TEST SWITCH.	
D4	GOTHAM EVO4SH-35/20-DFR-SOL-MVOLT-EZ10-90CRI	HE WILLIAMS 4DR SERIES HUBBELL LITEISTRY SERIES SIGNIFY LIGHTOLIER SERIES	LED PER MANUFACTURER 90 CRI, 3500K 2000 LUMENS	NON-DIM	120/277	14	15	NOMINAL 4" DIAMETER 6-7/8" DEEP RECESSED LED DOWNLIGHT SUITABLE FOR SHOWER APPLICATIONS. REGRESSED TEXTURED LENS WITH WHITE PAINTED TRIM. PROVIDE WITH STANDARD 0-10V DIMMING DRIVER. HIGH CRI LEDS. 60000 HOUR RATED MINIMUM.	
D6B D6BE D6W D6WE	ETC PRO ONE CELL SMALL DOWNLIGHT FIXTURE: ARCP1S-F-3-60-B / W-A DRIVER (NORMAL): ARCMD1DM DRIVER (EM): ARCMD1DEM	--	LED PER MANUFACTURER 90 CRI, 3000K 2023 LUMENS 50,000 HOURS	DMX / ARCMESH FADE-TO WARM	120	20	22	D6B: NOMINAL 4.33" DIAMETER X 5" H RECESSED ADJUSTABLE LED DOWNLIGHT WITH 60 DEGREE BEAM ANGLE. PROVIDE WITH ETC ARCMESH D1 DRIVER FOR WIRELESS DMX CONTROL AND EXTENSION CABLE AS REQUIRED BY IN-FIELD CONDITIONS. FADE-TO-WARM DIMMING. BLACK FINISH. D6BE: SAME AS TYPE D6B EXCEPT WITH EMERGENCY BATTERY DRIVER. D6W / D6WE: SAME AS TYPE D6B / D6BE EXCEPT WITH WHITE FINISH. CONTRACTOR TO PROVIDE ALLOWANCE FOR FIXTURE.	
D7R	GOTHAM DR7: EVO#R-35/25-BR-WD-LSS-277-GZ1-TRBL-90CRI DR7E:...	HE WILLIAMS #DR SERIES HUBBELL LITEISTRY SERIES SIGNIFY LIGHTOLIER SERIES	LED PER MANUFACTURER 90 CRI, 3500K 2500 LUMENS 60,000 HOURS	0-10V	120/277	25	28	NOMINAL 6-7/8" DEEP RECESSED LED RETROFIT DOWNLIGHT WITH WIDE DISTRIBUTION. BLACK REFLECTOR AND MATCHING PAINTED TRIM. PROVIDE WITH 0-10V DRIVER CAPABLE OF 100%-1% DIMMING. HIGH CRI LEDS. CONFIRM SIZE OF EXISTING OPENINGS PRIOR TO BID. PROVIDE SUITABLE FIXTURE UPON FIELD MEASURE.	
F1 F1E	LITHONIA LIGHTING F1: ZL1N-L46-3000LM-FST-MVOLT-35K-90CRI-WH F1E: ZL1N-L46-3000LM-FST-MVOLT-35K-90CRI-E7W-WH	COLUMBIA CSL SERIES HE WILLIAMS 75L SERIES ILP SS SERIES	LED PER MANUFACTURER 90 CRI, 3500K 3000 LUMENS 60,000 HOURS	NON-DIM	120/277	25	28	NOMINAL 4' LENGTH SUSPENDED LED STRIP FIXTURE WITH CHAIN HANGER ACCESSORY. 22-GAUGE DIE-FORMED COLD ROLLED STEEL HOUSING WITH WHITE POLYESTER POWDER COAT FINISH PAINTED AFTER FABRICATION. DIFFUSED MATTE ACRYLIC LENS, 0.08" THICK. CERTIFIED FOR DRY OR DAMP LOCATIONS. NON-DIMMING DRIVER. F1E: PROVIDE WITH INTEGRAL 10W EM BATTERY AND TEST SWITCH.	
F2	LITHONIA LIGHTING FEM-L48-4000LM-LPAFL-WD-MVOLT-GZ10-35K-90CRI	COLUMBIA LXEM SERIES HE WILLIAMS 96 LED SERIES SIGNIFY DW VAPORLUME SERIES	LED PER MANUFACTURER 90 CRI, 3500K 4000 LUMENS 60,000 HOURS	0-10V	120/277	24	27	NOMINAL 4' LENGTH GASKETED LED STRIP FIXTURE. 5VA (F1) FIBERGLASS OUTER HOUSING, RATED FOR FLAME AND WEATHER RESISTANCE WITH 0.050" ALUMINUM INTERNAL HOUSING, INJECTION-MOLDED POLYCARBONATE LATCHES, AND FROSTED, RIBBED, IMPACT RESISTANT ACRYLIC LENS. STAINLESS STEEL MOUNTING BRACKETS INCLUDED. IP65, IP66, AND IP67 RATED. STANDARD 0-10V DIMMING DRIVER. HIGH CRI LEDS.	
G1 G1E	HE WILLIAMS GP4-L350-8-40-W-UP-DL-DIM1-UNV-MOD	COLUMBIA PELOTON SERIES LITHONIA I-BEAM IBG SERIES SIGNIFY IBX SERIES	LED PER MANUFACTURER 80 CRI, 3500K 35,000 LUMENS 54,000 HOURS	0-10V	120/277	278	306	19"W X 24"L X 4-3/16"D SUSPENDED LED PERFORMANCE HIGH BAY FIXTURE WITH WIDE DISTRIBUTION. ALUMINUM AND STEEL HOUSING WITH NICKEL AND TEXTURED BLACK POWDER COAT FINISH. DIFFUSE POLYCARBONATE LENS AND UPLIGHT REFLECTOR. CONFIRM FINAL SUSPENSION SYSTEM WITH AS-BUILT CONDITIONS. PROVIDE WITH 0-10V DRIVER CAPABLE OF 100%-1% DIMMING. G1E: PROVIDE WITH INTEGRAL 10W EM BATTERY AND TEST SWITCH.	
K6 K6E	LUMENPULSE LACYS-A-SM-D-277-9-ITG-DL20-35K-CR90-W-DA1-NA-xxx-B	GOTHAM INCITO 4IN SERIES LITEISTRY LTC 4 SERIES SIGNIFY LIGHTOLIER C4 SERIES	LED PER MANUFACTURER 90 CRI, 3500K 2000 LUMENS 50,000 HOURS	0-10V	120/277	19	21	NOMINAL 4" DIAMETER X 9" TALL LED SURFACE MOUNT CYLINDER WITH 2-5/8" APERATURE YIELDING A 60 DEGREE WIDE BEAM. INTEGRAL DRIVER. PROVIDE WITH 0-10V DRIVER CAPABLE OF 100%-1% DIMMING. HIGH CRI LEDS. CONFIRM FINISH WITH ARCHITECT PRIOR TO ORDER. K6E: PROVIDE WITH REMOTE-MOUNT EMERGENCY BATTERY CAPABLE OF OPERATING FIXTURE FOR 90 MINUTES FOLLOWING POWER FAILURE.	
P1-# P1E-#	A-LIGHT ACL3-XX-LS-3500K-U-HE-S-T-D-CRI	AXIS BEAM 2 SERIES FINELITE HP-2 SERIES METALUMEN RAIL 2 SERIES	LED PER MANUFACTURER 90 CRI, 3500K 440 LM/FT 50,000 HOURS	0-10V	120/277	5 W/FT	6 VA/FT	NOMINAL 2.25"W X 3.375"H SUSPENDED DIRECT LINEAR LED FIXTURE WITH AIRCRAFT CABLE SUSPENSION. ALUMINUM FINISH. EXTRUDED ALUMINUM HOUSING WITH DIE CAST ALUMINUM END CAPS AND HIGH EFFICIENCT LAMBERTIAN OPTIC ACRYLIC LENS. PROVIDE WITH 0-10V DRIVER CAPABLE OF 100%-1% DIMMING. HIGH CRI LEDS. P1E-#: PROVIDE WITH REMOTE-MOUNT EMERGENCY BATTERY CAPABLE OF OPERATING FIXTURE FOR 90 MINUTES FOLLOWING POWER FAILURE.	
P1RS-# P1RSE-#	A-LIGHT ACL3-XX-LS-3500K-U-HE-R/S-T-D-CRI-MOD	AXIS BEAM 2 SERIES FINELITE HP-2 SERIES METALUMEN RAIL 2 SERIES	LED PER MANUFACTURER 90 CRI, 3500K 440 LM/FT 50,000 HOURS	0-10V	120/277	5 W/FT	6 VA/FT	SAME AS TYPE P1-# EXCEPT WITH CUSTOM CONSTRUCTION ALLOWING FOR PARTIALLY RECESSED, PARTIALLY SUSPENDED FIXTURE. CONFIRM EXACT LENGTHS AND DIMENSIONS WITH LIGHTING PLANS AND ARCHITECTURAL DRAWINGS. 50,000 HOUR MINIMUM. P1RSE-#: PROVIDE WITH REMOTE-MOUNT EMERGENCY BATTERY CAPABLE OF OPERATING FIXTURE FOR 90 MINUTES FOLLOWING POWER FAILURE.	
P2-#	FLUXWERX APS-F-A-A-35-FBA-XX-G-F2-M-03-(G)	BETA CALCO LE LOUVRE SERIES AXIS ZEN SERIES	LED PER MANUFACTURER 80 CRI, 3500K 588 LM/FT 60,000 HOURS	0-10V	120/277	5 W/FT	6 VA/FT	SUSPENDED EXTRUDED ALUMINUM LED PENDANT WITH 3.5"W X 2"H PROFILE COMPRISED OF CONTINUOUS 2.85" SQUARE ILLUMINATION CELLS PRODUCING 75% UP BATWING / 25% DOWN LIGHT DISTRIBUTION. FLAT ENDCAP. PROVIDE SYMMETRIC MODULE/ROW LAYOUT WHERE POSSIBLE. CONFIRM FINISH WITH ARCHITECT PRIOR TO ORDER.	
P3	ALW MOONRING MR1.5A-D5-CM-MIN-90-3500K-0/10V/S-N-N-UNV	ALM RING UD SERIES BARBICAN HALO ACSTC. SERIES OCL REV 1 ACOUSTIC SERIES	LED PER MANUFACTURER 90 CRI, 4000K 3750 LUMENS 50,000 HOURS	0-10V	120/277	58	64	NOMINAL 60" DIAMETER SURFACE MOUNT CIRCULAR RING FIXTURE WITH 1.5"W X 1.75"H PROFILE AND DIFFUSE LIGHT-LEAK LENS. CENTER CIRCULAR REGION FILLED WITH ACOUSTIC MATERIAL. EXTRUDED ALUMINUM HOUSING. 0.118" THICK ACRYLIC LENS. PROVIDE WITH 0-10V DIMMING DRIVER CAPABLE OF 100-1% DIMMING. CONFIRM FINISH AND ACOUSTIC FELT COLOR WITH ARCHITECT PRIOR TO ORDER.	
P6 P6E	LUMENPULSE LACYS-A-PSF-FBA-XX-D-277-9-ITG-DL20-35K-CRI90-W-DA1-FBA-B-FBA	GOTHAM INCITO 4IN SERIES LITEISTRY LTC 4 SERIES SIGNIFY LIGHTOLIER C4 SERIES	LED PER MANUFACTURER 90 CRI, 3500K 2000 LUMENS 50,000 HOURS	0-10V	120/277	19	22	NOMINAL 4" DIAMETER X 9" TALL SUSPENDED LED CYLINDER WITH 2-5/8" APERATURE YIELDING A 60 DEGREE WIDE BEAM. MOUNT VIA RIGID STEM ON FLAT CANOPY SUITABLE FOR MOUNTING ON STANDARD ELECTRICAL BOX, CONFIRM FINAL STEM AND MOUNTING HEIGHTS WITH ARCHITECTURAL DRAWINGS. INTEGRAL DRIVER. PROVIDE WITH 0-10V DRIVER CAPABLE OF 100%-1% DIMMING. HIGH CRI LEDS. CONFIRM FINISH WITH ARCHITECT PRIOR TO ORDER. P6E: PROVIDE WITH REMOTE-MOUNT EMERGENCY BATTERY CAPABLE OF OPERATING FIXTURE FOR 90 MINUTES FOLLOWING POWER FAILURE.	
P6W P6WE	LUMENPULSE LACYS-A-PSF-FBA-XX-D-277-9-ITG-DL20-35K-CRI90-WW-DA1-FBA-B-FBA	GOTHAM INCITO 4IN WW SERIES LITEISTRY LTC 4 SERIES SIGNIFY LIGHTOLIER C4 SERIES	LED PER MANUFACTURER 90 CRI, 3500K 2000 LUMENS	0-10V	120/277	19	22	P6W: SAME AS TYPE P6 EXCEPT WITH TRUE ASYMMETRIC WALLWASH OPTICS. P6WE: PROVIDE WITH REMOTE-MOUNT EMERGENCY BATTER CAPABLE OF OPERATING FIXTURE FOR 90 MINUTES FOLLOWING POWER FAILURE.	
P7 P7E	DELRAY IL791-FBA-O-W35-M-S/SR-D-CM1	LUMINIS HOLLOWCORE SERIES VOIGHT THRHB SERIES	LED PER MANUFACTURER 90 CRI, 3500K 10,000 LUMENS 50,000 HOURS	0-10V	120/277	65	72	NOMINAL 16.25" DIA X 11"H LED DECORATIVE PENDANT WITH DIE-CAST ALUMINUM HEAT SINK HOUSING SUPPORTING A CURVED CIRCULAR ACRYLIC PRISMATIC DEFRACTOR WITH OPAL FINISH. HARD STEM MOUNTING HARDWARE, CONFIRM FINAL STEM AND MOUNTING HEIGHTS WITH ARCHITECTURAL DRAWINGS. PROVIDE WITH 0-10V DRIVER CAPABLE OF 100%-1% DIMMING. CONFIRM ALUMINUM HOUSING FINISH WITH ARCHITECT PRIOR TO ORDER. P7E: PROVIDE WITH REMOTE-MOUNT EMERGENCY BATTERY CAPABLE OF OPERATING FIXTURE FOR 90 MINUTES FOLLOWING POWER FAILURE.	
P8 P8E	ETC P8: ARCP8-277-F-30-60-W-Y P8E: ARCPE8-277-F-30-60-W-Y	--	LED PER MANUFACTURER 90 CRI, 3000K 18600 LUMENS 50,000 HOURS	DMX / ARCMESH FADE-TO WARM	277	200	220	P8: NOMINAL 13.7"W X 8.8"H X 7.93" DEEP HIGH PERFORMANCE LED LUMINAIRE WITH YOKE-MOUNTING FOR FOCUSING AND AIMING OF LIGHT FIXTURE. ONBOARD POWER SUPPLY CONTROLLED VIA WIRELESS DMX 'ARCMESH' TRANSMITTER PROVIDING REMOTE ADDRESSABILITY OF FIXTURES. 60 DEGREE BEAM ANGLE. WHITE FINISH. P8E: PROVIDE WITH REMOTE-MOUNT EMERGENCY BATTERY CAPABLE OF OPERATING FIXTURE FOR 90 MINUTES FOLLOWING POWER FAILURE. CONTRACTOR TO PROVIDE ALLOWANCE FOR FIXTURE.	
P9	A-LIGHT ALIGN 2 SYSTEM: ALG2S-IJ-OR-X-LS-35-U-S-B-D-D-CRI LINEAR: ALGSTR-x-LH-35-SQ-B-D-CRI SPOT: ALGALT-55-LH-35-35-B-D-CRI P9E:	WAC LIGHTING STRUT SERIES ZANEEN HYPRO SERIES ZANIBONI MINI-TRACK I SERIES	LED PER MANUFACTURER 90 CRI, 3500K 350 LM/FT UP 530 LM/FT DOWN	0-10V	120/277	100 W DRIVER		SUSPENDED TRACK SYSTEM WITH INTEGRATED CONTINUOUS LED UPLIGHT CAPABLE OF ACCEPTING MULTIPLE LINEAR AND SPOT LIGHT ACCESSORIES FOR DIRECT LIGHTING OF SPACE. PROVIDE SQUARE LENS DIRECT LINEAR ATTACHMENTS AND SPOT HEAD ATTACHMENTS WITH 35 DEG BEAM ANGLES, LENGTHS AND LOCATIONS PER PLAN. 0-10V DIMMING DRIVER. BLACK FINISH. COORDINATE ALL DRIVER LOCATIONS/ QUANTITIES PRIOR TO CONSTRUCTION.	
P10 P10E	OCL GLOWSTICK GS1-P1CF-36-CR-FBA-LED1-935K-UNV-100-DM1	CASEY ARCH LTG PEN SERIES PRIMA CONTOR III SERIES SPI LIGHTING PAVO SERIES	LED PER MANUFACTURER 90 CRI, 3500K 825 LUMENS 60,000 HOURS	0-10V	120/277	11	13	NOMINAL 36"H X 1.5"DIA CYLINDRICAL PENDANT WITH EXTRUDED AND MACHINED ALUMINUM FIXTURE BODY AND CLEAR ACRYLIC ROD DIFFUSER. PROVIDE WITH CANOPY FOR MOUNTING ON RECESSED JUNCTION BOX, FINISH TO MATCH FIXTURE BODY. PENDANT AND POWER CORD LENGTH TO VARY, REFER TO DRAWINGS FOR ADDITIONAL INFORMATION. CONFIRM FIXTURE FINISH WITH ARCHITECT PRIOR TO ORDER. P10E: PROVIDE WITH REMOTE-MOUNT EMERGENCY BATTERY CAPABLE OF OPERATING FIXTURE FOR 90 MINUTES FOLLOWING POWER FAILURE.	
P11-#	FOCAL POINT SEEM 4 P11: FSM4LS-FL-440LF-935K-1C-UNV-L11-C##-FBA P11E: FSM4LS-FL-440LF-935K-1C-UNV-L11-C##-EM	PEERLESS ELECTRIC (CANADA)	LED PER MANUFACTURER 90 CRI, 3500K 440 LM/FT 50,000 HOURS	0-10V	120/277	5 W/FT	6 VA/FT	NOMINAL 4.0"W X 4.50"H SUSPENDED DIRECT LINEAR LED FIXTURE WITH AIRCRAFT CABLE SUSPENSION. EXTRUDED ALUMINUM HOUSING WITH DIE CAST ALUMINUM END CAPS AND HIGH EFFICIENCT LAMBERTIAN OPTIC ACRYLIC LENS. PROVIDE WITH 0-10V DRIVER CAPABLE OF 100%-1% DIMMING. HIGH CRI LEDS. FINISH BY ARCHITECT. FIXTURE MUST BE 4.0" WIDE TO FIT IN CUSTOM METAL ARMSTRONG CEILING SYSTEM. P11E: SAME AS P11 EXCEPT WITH INTEGRAL EMERGENCY BATTERY CAPABLE OF OPERATING FIXTURE FOR 90 MINUTES FOLLOWING POWER FAILURE.	
P12	FINELITE H04 OPEN SUSPENDED SERIES HO4-D-RO-x-H-935-OPN-277-SC-FA-OE-C4-MOD	AXIS ZEN SQUARE SERIES PINNACLE CHUTE SERIES	LED PER MANUFACTURER 90 CRI, 3500K 600 LM/FT 50,000 HOURS	0-10V	120/277	7 W/FT	8 VA/FT	NOMINAL 4.0"W X 4.0"H SUSPENDED DIRECT LINEAR LED FIXTURE WITH AIRCRAFT CABLE SUSPENSION. EXTRUDED ALUMINUM HOUSING WITH DIE CAST ALUMINUM END CAPS WITH OPEN INTERIOR LENS FEATURING RECTILINEAR REFLECTOR PROVIDING UNIFORM LENS LUMINANCE. PROVIDE WITH 0-10V DRIVER CAPABLE OF 100%-1% DIMMING. HIGH CRI LEDS. FINISH BY ARCHITECT. PROVIDE WITH LENGTHS AND ONE-PIECE ILLUMINATED 90 DEGREE CORNERS PER DRAWINGS.	

LIGHT FIXTURE SCHEDULE - 2 OF 2

	MANUFACTURER / MODEL #	APPROVED ALTERNATES	LAMPING / LIGHT SOURCE	DIMMING TYPE	VOLT	INPUT WATTS	INPUT VA	DESCRIPTION	NOTES
R1	PRUDENTIAL LIGHTING BIO-PSTD-FLSH-LED35-90-PROG(440LM/FT)-RXX-TMW-AWL-D1R-WTW-SC-UNV-X3-DM01	LEDALITE TRUGROOVE SERIES NEORAY DEFINE 3 SERIES PINNACLE EDGE EV3D SERIES	LED PER MANUFACTURER 90 CRI, 3500K 440 LM/FT 100,000 HOURS	0-10V	120/277	5W/FT	6 VA/FT	NOMINAL 4-3/32"W X 5-7/16"H RECESSED LINEAR LED FIXTURE WITH FLUSH ACRYLIC LENS SUITABLE FOR PERIMETER ASYMMETRIC THROW APPLICATIONS IN HARD CEILINGS. EXTRUDED ALUMINUM HOUSING WITH PAINTED MATTE WHITE FINISH, LENGTH PER PLANS. PROVIDE WITH 0-10V DRIVER CAPABLE OF 100%-1% DIMMING. HIGH CRI LEDS.	
R2	PRUDENTIAL LIGHTING P59-A6-LED35-90-SO-RXX-W-SC-UNV-X1/X3B-DM01	GAMMALUX GPC 6IN SERIES NEO RAY 79-PF LED SERIES PMC PER-MITTARI-SLC SERIES	LED PER MANUFACTURER 90 CRI, 3500K 675 LM/FT 100,000 HOURS	0-10V	120/277	10 W/FT	11 VA/FT	NOMINAL 13-13/32"W X 10-5/8"H LOW PROFILE LED WALL WASH FIXTURE THAT CREATES A 6" PERIMETER ARCHITECTURAL SLOT WITH FLANGE FOR MOUNTING IN CEILINGS PER PLANS. FULLY CONCEALED INDIRECT LED LIGHT SOURCE. ONE-PIECE 20-GAUGE STEEL ROUGH-IN HOUSING WITH POWDER COAT MATTE SATIN WHITE FINISH AND STEEL ALIGNMENT BRACKET, LIGHT ENGINE TO BE INSTALLED AFTER ROUGH-IN HOUSING. PROVIDE WITH 0-10V DRIVER CAPABLE OF 100%-1% DIMMING. HIGH CRI LEDS.	
R3-#	A-LIGHT ACL5-XX-LS-35-U-LV-XP-W-D-CRI	AXIS BEAM 2 SERIES FINELITE HP-2 SERIES LEDALITE TRUGROOVE SERIES	LED PER MANUFACTURER 90 CRI, 3500K 461 LM/FT 60,000 HOURS	0-10V	120/277	5 W/FT	6 VA/FT	NOMINAL 2.25"W X 3.375"H RECESSED LINEAR LED FIXTURE WITH FLUSH ACRYLIC LENS. EXTRUDED ALUMINUM HOUSING WITH PAINTED MATTE WHITE FINISH, LENGTH PER PLANS. 1/2" TRIM FLANGE. PROVIDE WITH 0-10V DRIVER CAPABLE OF 100%-1% DIMMING. HIGH CRI LEDS.	
R9	A-LIGHT ALG5S-IJ-CR-M-U-G-B-D DRIVER: PACE LS	WAC LIGHTING STRUT SERIES ZANEEN HYPRO SERIES ZANIBONI MINI-TRACK R SERIES	LED PER MANUFACTURER 80 CRI, 3500K 353 LM/FT 50,000 HOURS	0-10V	120/277	100 W DRIVER		RECESSED TRACK SYSTEM CAPABLE OF ACCEPTING MULTIPLE LINEAR AND SPOT LIGHT ACCESSORIES FOR DIRECT LIGHTING OF SPACE. PROVIDE SQUARE LENS DIRECT LINEAR ATTACHMENTS AND SPOT HEAD ATTACHMENTS WITH 35 DEG BEAM ANGLES, LENGTHS AND LOCATIONS PER PLAN. 0-10V DIMMING DRIVER. BLACK FINISH. COORDINATE ALL DRIVER LOCATIONS/ QUANTITIES PRIOR TO CONSTRUCTION.	
R12	FINELITE HO4 OPEN RECESSED SERIES HO4-R-RO-x-H-935-OPN-277-SC-SE-VF	AXIS ZEN SQUARE SERIES PINNACLE CHUTE SERIES	LED PER MANUFACTURER 90 CRI, 3500K 600 LM/FT 50,000 HOURS	0-10V	120/277	7 W/FT	8 VA/FT	NOMINAL 4.0"W X 4.0"H RECESSED DIRECT LINEAR LED FIXTURE WITH AIRCRAFT CABLE SUSPENSION. EXTRUDED ALUMINUM HOUSING WITH DIE CAST ALUMINUM END CAPS WITH OPEN INTERIOR LENS FEATURING RECTILINEAR REFLECTOR PROVIDING UNIFORM LENS LUMINANCE. PROVIDE WITH 0-10V DRIVER CAPABLE OF 100%-1% DIMMING. HIGH CRI LEDS. FINISH BY ARCHITECT. PROVIDE LENGTHS PER DRAWINGS.	
SL2 SL2MP	TROV FIXTURE: L50-E-XX-12-30-90-MULT-120 0-10V DIM: LDCM-PL-120-277-010V-GR MOUNTING: MNT-L-TRKCLIP / MNT-L-ANGLOCK MASKING PLATE: MP-L50-3H-##	COLORKINETICS EW SERIES SSL COVELINE XL SERIES TRAXON PROPOINT SERIES	LED PER MANUFACTURER 90 CRI, 3000K 807 LM/FT 50,000 HOURS	0-10V	120/277	12	14	SL2: NOMINAL 1-3/4"W X 2"H LINEAR EXTERIOR LED LIGHT FIXTURE FOR FLOOD LIGHTING APPLICATIONS WITH 120X120 DEGREE OPTICS. STAINLESS STEEL HARDWARE, UV STABILIZED POLYCARBONATE LENS, ELECTROSTATICALLY APPLIED POLYESTER POWDER COAT FINISH AND IP66 RATING. UNIVERSAL ADJUSTABLE MOUNTING. END-TO-END MOUNTING CONFIGURATION PER PLANS, FINAL LAYOUT TO BE COORDINATED WITH FINAL METAL SCRIM DETAILS. 0-10V DIMMING DRIVER. SL2MP: SAME AS TYPE SL2 EXCEPT WITH MASKING PLATE WITH 90 DEGREE SHIELD OF LED ARRAY TO CONTAIN LIGHT ONLY ON WALL(S) BEING ILLUMINATED. SILVER FINISH.	
SP1-X	LITHONIA LIGHTING DSX2 LED-P1-30K-T4M-MVOLT-RPA-NLTAIR2-PIRHN-DDBXD X' - INDICATES NUMBER OF FIXTURE HEADS, ORIENTATION PER DRAWINGS	GARDCO PUREFORM SERIES HUBBELL VIPER SERIES LUMARK PREVAIL SERIES	LED PER MANUFACTURER 70 CRI, 3000K 18,500 LUMENS 100,000 HOURS	0-10V	120/277	140	154	EXTERIOR POLE-MOUNTED LED PARKING LOT LUMINAIRE WITH TYPE IV MEDIUM OPTICS SUITABLE FOR MOUNTING ON A ROUND POLE. DARK BRONZE FINISH. PROVIDE WITH NLIGHT AIR 2 OR EQUIVALENT WIRELESS MESH-NETWORK CONTROL SYSTEM AND BUILDING MOUNTED TRANMITTERS TO PROVIDE ADEQUATE COVERAGE PER MANUFACTURER GUIDELINES. EACH FIXTURE TO BE INDIVIDUALLY ADDRESSABLE AND PROVIDED WITH INTEGRAL SENSOR WITH MOTION SENSING, PHOTOCELL, AND WIRELESS TRANSMITTING CAPABILITIES. CONFIRM ADDITIONAL REQUIREMENTS WITH SEQUENCE OF OPERATIONS. PROVIDE WITH 20' ROUND ALUMINUM POLE, FINISH TO MATCH LUMINAIRE.	
SP2-X	LITHONIA LIGHTING DSX2 LED-P1-30K-T2M-MVOLT-RPA-NLTAIR2-PIRHN-DDBXD-HS X' - INDICATES NUMBER OF FIXTURE HEADS, ORIENTATION PER DRAWINGS	GARDCO PUREFORM SERIES HUBBELL VIPER SERIES LUMARK PREVAIL SERIES	LED PER MANUFACTURER 70 CRI, 3000K 18,500 LUMENS 100,000 HOURS	0-10V	120/277	140	154	SAME AS TYPE SP1-X EXCEPT WITH TYPE 2 DISTRIBUTION AND BACKLIGHT GLARE SHIELD.	
SP3	BEGA BUILDING ELEMENT SYMMETRIC 84064-K3-BRZ	LIGMAN BENTON ROUND SERIES LUMINIS LUMIQUAD SERIES RAGNI TIGEA SERIES	LED PER MANUFACTURER 80 CRI, 3000K 2241 LUMENS 142,000 HOURS	0-10V	120/277	40	44	NOMINAL 177-3/8"H X 8-3/4"W LED PEDESTRIAN LIGHTING ELEMENT WITH ROUND FORM FACTOR SUITABLE FOR EXTERIOR ENVIRONMENTS. STANDARD 0-10V DIMMING DRIVER. BRONZE MATTE TEXTURED POLYESTER POWDER COAT FINISH WITH MINIMUL 3MIL THICKNESS.	
SR1 SR1E	FOCAL POINT SEEM 2 RECESSED WET SERIES FSM2LWL-FL-375LF-30K-1C-UNV-LD1-XFN-CC-xx-MOD	FOCUM AQUAS 2 REC SERIES MARK ARCH. SLOT 2 SERIES PMC ES NELIO SERIES	LED PER MANUFACTURER 90 CRI, 3000K 375 LM/FT 50,000 HOURS	0-10V	120/277	4	5	2.5" APERATURE CONTINUOUS RECESSED LED FIXTURE WITH EXTRUDED ALUMINUM BODY SUITABLE FOR MOUNTING IN EXTERIOR WET LOCATIONS. CONTINUOUS 0.20" THICK ACRYLIC LENS WATER SHIELD. MOUNTING FLANGE SUITABLE FOR NON-DRYWALL HARD CEILING APPLICATIONS. STANDARD 0-10V DIMMING DRIVER. PROVIDE WITH CUSTOM COLOR FINISH. CONFIRM FINISH WITH ARCHITECT PRIOR TO ORDER. SR1E: PROVIDE WITH 10 WATT REMOTE MOUNT EMERGENCY BATTERY PACK CAPABLE OF OPERATING FIXTURE FOR 90 MINUTES FOLLOWING POWER FAILURE.	
SW1 SW1E	PERFORMANCE IN LIGHTING MIMIK 10 M MIMIK 10M TYPE III 071729	LITHONIA WPX1 LED P1 SERIES WEEF QLS400 SERIES	LED PER MANUFACTURER 70 CRI, 3000K 750 LUMENS 50,000 HOURS	0-10V	120/277	10	11	NOMINAL 5"H X 2.5"D X 5"W SQUARE WALL PACK WITH TYPE III DISTRIBUTION. IP65 RATED DIE CAST ALUMINUM HOUSING WITH SILICONE GASKET AND FLAT, TEMPERED GLASS DIFFUSER. IRON GRAY TEXTURED FINISH. SW1E: PROVIDE WITH REMOTE-MOUNT EMERGENCY BATTERY CAPABLE OF OPERATING FIXTURE FOR 90 MINUTES FOLLOWING POWER FAILURE.	
SW2 SW2E	PERFORMANCE IN LIGHTING MIMIK 30 M MIMIK 30M TYPE III 070013	LITHONIA WPX1 LED P2 SERIES WEEF QLS400 SERIES	LED PER MANUFACTURER 70 CRI, 3000K 2603 LUMENS 50,000 HOURS	0-10V	120/277	36	40	NOMINAL 5"H X 2.5"D X 11"W RECTANGULAR WALL PACK WITH TYPE III DISTRIBUTION. IP65 RATED DIE CAST ALUMINUM HOUSING WITH SILICONE GASKET AND FLAT, TEMPERED GLASS DIFFUSER. IRON GRAY TEXTURED FINISH. SW2E: PROVIDE WITH REMOTE-MOUNT EMERGENCY BATTERY CAPABLE OF OPERATING FIXTURE FOR 90 MINUTES FOLLOWING POWER FAILURE.	
W1	FLUXWERX QUAD NARROW SERIES	ALW FB SERIES AXIS AIR SERIES PRUDENTIAL SNAP SERIES	LED PER MANUFACTURER 90 CRI, 3500K 500 LM/FT 50,000 HOURS	0-10V	120/277	6	7	NOMINAL 4'-0"L X 3.5"W X 2.5"D VERTICALLY-ORIENTED WALL MOUNT LINEAR LED FIXTURE WITH EXTRUDED ALUMINUM HOUSING AND FROSTED ACRYLIC LENS THAT EMITS LIGHT ON THREE SIDES. MATTE WHITE POWDER COAT FINISH. STANDARD 0-10V DIMMING DRIVER, UNIVERSAL VOLTAGE. REFER TO ARCHITECTURAL DETAILS FOR MOUNTING HEIGHTS.	
X1	HE WILLIAMS EXIT/CA SERIES EXIT/CA-R-AF-BA-EM-SDT-WG-D	DUALLITE EVENLITE LITHONIA	LED PER MANUFACTURER RED	NON-DIM	120/277	5	5	UNIVERSAL RECESSED MOUNT EXIT SIGN WITH EMERGENCY BATTERY CAPABLE OF OPERATING FIXTURE FOR 90 MINUTES FOLLOWING POWER FAILURE. RED LETTERS. BRUSHED ALUMINUM FINISH WITH FIELD SELECTABLE CHEVRONS AND BUILT-IN TEST SWITCH. NUMBER OF FACES PER PLANS.	

LIGHT FIXTURE SCHEDULE GENERAL NOTES:

1. ALL LIGHT FIXTURES AND RELATED COMPONENTS SHALL BE PROVIDED BY THE CONTRACTOR, UNLESS NOTED OTHERWISE.
2. ALL LIGHT FIXTURES AND RELATED COMPONENTS SHALL BE PROVIDED BY THE CONTRACTOR AS PART OF THE BASE BID, UNLESS NOTED OTHERWISE. CONTRACTOR SHALL PROVIDE AN ALTERNATE BID FOR OWNER FURNISHED LIGHT FIXTURES.
3. ALL LIGHT FIXTURES AND RELATED COMPONENTS SHALL BE FURNISHED BY THE OWNER AND INSTALLED BY THE CONTRACTOR, UNLESS NOTED OTHERWISE.
4. FOR OWNER FURNISHED LIGHT FIXTURES: CONTRACTOR SHALL DESIGNATE A PRIMARY POINT OF CONTACT WITH THE OWNER'S LIGHT FIXTURE SUPPLIER TO COORDINATE AND FACILITATE THE RECEIPT, HANDLING AND REPLACEMENT OF LIGHT FIXTURES AND RELATED PARTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECEIVING, INSPECTING, STORING AND INSTALLING ALL LIGHT FIXTURES AND RELATED PARTS. THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE LIGHT FIXTURE SUPPLIER OF ANY INCORRECT, DAMAGED OR MISSING LIGHT FIXTURES AND RELATED PARTS WITHIN 48 HOURS OF ON-SITE RECEIPT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING THAT THE PROPER LIGHT FIXTURES ARE FURNISHED IN ACCORDANCE WITH THE LIGHT FIXTURE SCHEDULE AND THE APPROVED LIGHTING SUBMITTALS PRIOR TO INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADDITIONAL COSTS INCURRED DUE TO REPLACEMENT/REPAIR OF LIGHT FIXTURES AND RELATED PARTS AFTER ON-SITE RECEIPT. CONTRACTOR SHALL NOTIFY THE OWNER'S LIGHT FIXTURE SUPPLIER OF ANY MISSING LIGHT FIXTURES AND RELATED PARTS REQUIRED FOR PROJECT COMPLETION.
5. THE PARTY SUPPLYING THE LIGHT FIXTURES IS RESPONSIBLE FOR SUPPLYING THE PROPER QUANTITY OF LIGHT FIXTURES.
6. THE SITE LIGHTING POLES SHALL MEET THE FOLLOWING MINIMUM STANDARD: THE COMPLETE LIGHTING STANDARD AND FOOTING SHALL BE DESIGNED TO WITHSTAND 100MPH WINDS WITH A 1.3 MPH GUST FACTOR. THE POLES SHALL BE HIGH STRENGTH STEEL OR ALUMINUM AND SHALL BE NON-BREAKAWAY TYPE, UNLESS NOTED OTHERWISE. POLES OVER 20' HIGH SHALL BE FACTORY FURNISHED WITH VIBRATION DAMPENERS. POLE INSTALLATION SHALL COMPLY WITH ALL LOCAL REQUIREMENTS. POLE HEIGHTS SHALL BE FACTORY FURNISHED TO THE LENGTH LISTED IN THE LIGHT FIXTURE SCHEDULE TO ACHIEVE DESIRED HEAD MOUNTING HEIGHT. REFER TO POLE BASE DETAIL FOR ADDITIONAL INFORMATION.
7. LIGHT FIXTURES WIRED TO DIMMABLE CONTROLS MUST BE PROVIDED WITH ALL WIRING REQUIRED TO DIM FIXTURES.

LIGHT FIXTURE SCHEDULE SUPPLEMENTAL SPECIFICATIONS:

1. CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND CATALOG NUMBERS ONLY. FIRST READ THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS IN CONJUNCTION WITH THE CATALOG NUMBER TO DETERMINE THE MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS FOR THE DESIGN.
2. FOR SUBSTITUTIONS: PROVIDE PHOTOMETRIC CALCULATIONS AND OTHER NECESSARY INFORMATION FOR ENGINEER REVIEW. REFER TO SPECIFICATIONS FOR MORE INFORMATION.
3. COORDINATE LIGHT FIXTURE MOUNTING HARDWARE AND TRIMS NEEDED TO SUIT CEILING CONDITIONS. LIGHT FIXTURES NEAR OR IN CONTACT WITH INSULATION SHALL COMPLY WITH CODE. MAINTAIN 3" MINIMUM WORKING CLEARANCE BETWEEN NON-IC RATED LIGHT FIXTURE HOUSINGS AND INSULATION ON ALL ADJACENT DUCTWORK, PIPING, WALLS, AND CEILINGS.
4. EXIT SIGNS SUBJECT TO DAMAGE, INCLUDING THOSE IN GYMNASIUMS, SHALL BE PROVIDED WITH WIRE GUARDS OR EQUIVALENT SHIELDED OR SHATTERPROOF LAMPS/LIGHT SOURCES. COORDINATE REQUIREMENTS AND AFFECTED LIGHT FIXTURES WITH OWNER.

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STATE OF MISSOURI
DOUGLAS M. EVERHART
NUMBER PE-2019007648
PROFESSIONAL ENGINEER

Dec 28 2020
DOUGLAS M. EVERHART
LICENSE # PE-2019007648
1950004111
MO. CORPORATE NO: E-556D
EXPIRES 12/31/2021

REVISIONS

Number	DESCRIPTION	DATE

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/14/2021

PROJECT NO: 0119-0100
DATE: December 29, 2020

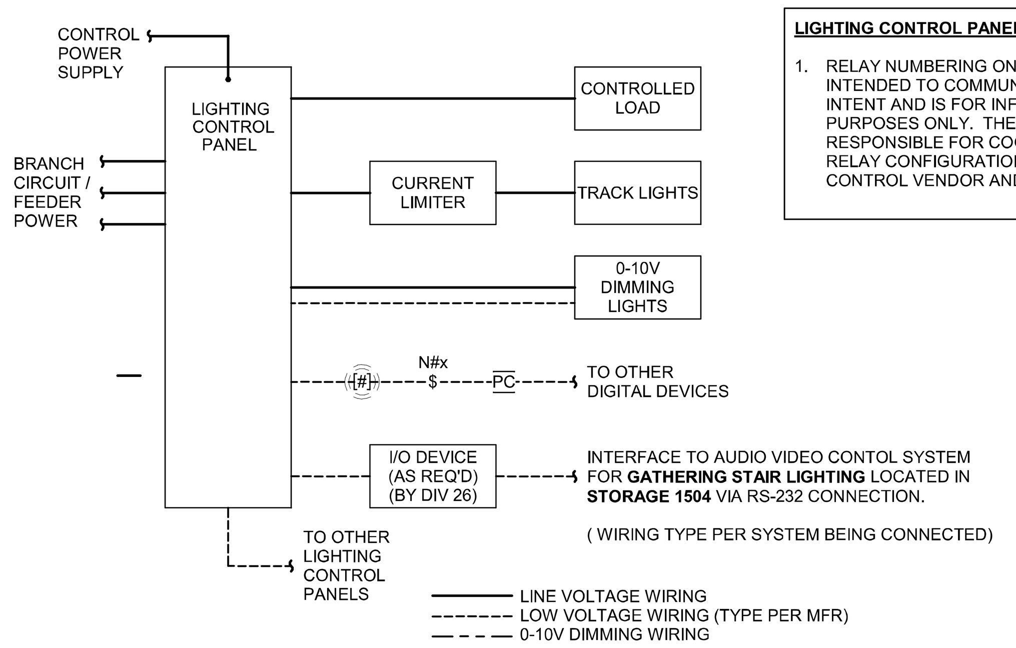
Package 2

LIGHT FIXTURE SCHEDULE

E700

Issued for Construction

DOUGLAS M. EVERHART



LIGHTING CONTROL PANEL SCHEDULE NOTE(S):

1. RELAY NUMBERING ON SCHEDULE IS INTENDED TO COMMUNICATE DESIGN INTENT AND IS FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING FINAL RELAY CONFIGURATION WITH LIGHTING CONTROL VENDOR AND FIELD CONDITIONS.

NOTES:

1. REFER TO LIGHTING CONTROL DEVICE SCHEDULE FOR DEVICE AND EQUIPMENT SPECIFICATIONS.
2. DETAIL IS DIAGRAMMATIC AND IS BASED ON WATTSTOPPER. THIS REPRESENTS THE GENERAL SCOPE OF WORK AND LOCATION OF DEVICES IN RELATION TO EACH OTHER ALONG THE POWER CIRCUIT. DIAGRAMS MAY BE DIFFERENT FOR ALLOWED EQUIVALENT MANUFACTURERS. ELECTRICAL CONTRACTOR SHALL COORDINATE FULL SYSTEM REQUIREMENTS WITH SELECTED MANUFACTURER. PROVIDE ALL PARTS AND PIECES REQUIRED FOR A FULLY FUNCTIONAL SYSTEM. REFER TO FINAL APPROVED MANUFACTURER'S INSTALLATION INSTRUCTIONS AND WIRING DIAGRAMS FOR INSTALLATION.
3. CIRCUITING SHOWN ON PLAN(S) CORRESPONDS TO LIGHTING CONTROL INTENT. IF CIRCUITING IS FIELD-MODIFIED, ENSURE THAT SYSTEM PROGRAMMING WITH REVISED CIRCUITING MEETS ORIGINAL LIGHTING CONTROL INTENT. UPDATE LIGHTING CONTROL PANEL SCHEDULE(S) IN RECORD DRAWINGS.
4. INTEGRAL TIMECLOCK SHALL BE ASTRONOMIC, PROGRAMMABLE WITH 7 DAY / HOLIDAY SCHEDULING, AND HAVE 24 HOUR BATTERY BACK-UP. RELAYS SHALL BE MECHANICALLY HELD, SINGLE POLE, 20A RATED, NORMALLY CLOSED CONTACTS. LIGHTING CONTROL SYSTEM SHALL COMPLY WITH ALL LOCAL AND STATE ENERGY CODES.
5. COORDINATE WITH OWNER AND LANDLORD FOR PROGRAMMABLE TIMECLOCK SCHEDULES. PROVIDE GENERAL CONTRACTOR WITH OPERATIONS MANUALS FOR ALL COMPONENTS OF LIGHTING CONTROL SYSTEM. LEAVE A TYPEWRITTEN SCHEDULE INCLUDING ANY FIELD CONDITION CHANGES IN EACH LIGHTING CONTROL PANEL DOOR.
6. REFER TO LIGHTING CONTROL PANEL SCHEDULE(S) FOR MORE INFORMATION.

1 CENTRALIZED LIGHTING CONTROL DIAGRAM
NTS

LIGHTING CONTROL SEQUENCE OF OPERATIONS:

1. HOURS OF OPERATION
   - A. General Note: Confirm all timeclock schedules and sensor time delays with owner prior to final programming
   - B. Occupied Hours: Mon-Sun 6:00 AM - 9:00 PM
2. GENERAL REQUIREMENTS
   - A. Emergency Lighting: Emergency egress lighting is powered from emergency battery drivers integral to fixtures designated as emergency. Upon loss of power, all lights designated as emergency shall turn on at full emergency battery back-up output.
   - B. Interior Daylight Zones: Where photocells are provided in interior spaces, daylight zone shall be controlled with general lighting when manual input is provided on local controls switch. Photocell to adjust daylight zone per available daylight and cap light fixture output within that zone.
   - C. Lighting Control Zones: Lighting control zones, including daylight zones, are noted by lowercase lettering adjacent to light fixtures on drawings.
3. SPACE REQUIREMENTS (RE. "ZONE" ON LIGHTING CONTROL PANEL SCHEDULES)

A. Commons (Cafeteria, Media Center, Activity Center, etc.)
- a. Occupied Hours
  - All Commons lights shall be automatically turned on/off via relay panel timeclock operation.
  - Refer to networked control switches for preset dimming levels where applicable.
- b. Unoccupied Hours
  - Manual Control: Occupant can manually control lights via local switch(es), zoned to control areas per drawings.
- c. Manual Control: Occupant can manually control lights via local switch(es).
- d. Networked low-voltage switch, dimmable zones per drawings.
- e. Occupancy: Occupant must manually turn on lights.
- f. Vacancy: After 20 minutes, all controlled loads shall turn off.

B. Corridors
- a. Occupied Hours
  - All corridor lights shall be automatically turned on/off via relay panel timeclock operation.
  - Refer to networked control switches for preset dimming levels where applicable.
- b. Unoccupied Hours
  - Manual Control: Occupant can manually control lights via local switch(es), zoned to control areas per drawings.
- c. Networked low-voltage switch, dimming only where required via automatic photocell.
- d. Occupancy: Occupant must manually turn on lights.
- e. Vacancy: After 60 minutes, all controlled loads shall turn off.

C. Classrooms (Standard), Conference Rooms
- a. Manual Control: Occupant can manually control lights via local switch(es).
  - Digital four-button low voltage with capability of scene recall and dimming.
- b. Occupancy: Occupant must manually turn on lights.
- c. Vacancy: After 20 minutes, all controlled loads shall turn off.

D. Classrooms (Special Needs)
- a. Manual Control: Occupant can manually control lights via local switch(es).
  - Digital custom low voltage controller with capability of scene recall, tunable white control, and dimming. See Tunable White section above for additional information.
- b. Occupancy: Occupant must manually turn on lights.
- c. Vacancy: After 20 minutes, all controlled loads shall turn off.

E. Private Offices.
- a. Manual Control: Occupant can manually control lights via local switch(es).
  - Digital low voltage with dimming.
- b. Occupancy: Occupant must manually turn on lights.
- c. Vacancy: After 10 minutes, all controlled loads shall turn off.

F. Open Offices
- a. Manual Control: Occupant can manually control lights via local switch(es).
  - Digital low voltage with on/off and dimming controllability.
- b. Occupancy: Occupant must manually turn on lights.
- c. Vacancy: After 20 minutes, all controlled loads shall turn off.
- d. Daylighting: General lighting within the daylight zone shall be continuously dimmed automatically where required by energy code. The lowest light level permitted shall be measured at the task plane with only electric light contributions. Fixtures shall not dim below 20% or as otherwise determined by owner.

G. Restrooms
- a. Manual Control: Occupant can manually control lights via local switch(es).
  - Standalone low-voltage keyed switches with occupancy sensors.
- b. Occupancy: Lights shall automatically turn on upon detection of occupancy.
- c. Vacancy: After 20 minutes, all controlled loads shall turn off.

H. Gymnasium
- a. Manual Control: Occupant can manually override lights via networked local switch(es).
- b. Occupancy: Lights will automatically turn on based on occupancy.
- c. Vacancy: After 20 minutes, all controlled loads shall turn off.

I. Kitchen, IT, Mechanical, Back of House
- a. Manual Control: Occupant can manually control lights via local switch(es).
  - Standalone low-voltage switch.
- b. Occupancy: Occupant must manually turn on lights.
- c. Vacancy: After 20 minutes, all controlled loads shall turn off

J. Electrical rooms
- a. Manual Control: Occupant can manually control lights via local switch(es).
  - Stand alone on/off manual toggle switch.
- b. Occupancy: Occupant must manually turn on lights.
- c. Vacancy: Occupant must manually turn off lights.

K. Exterior Lighting - Light Columns, Wall Packs, Canopies
- a. Time Control: Astronomic time-based control with manual override.
- b. Setback: At 1-hour after building close, lighting shall dim to 50% until morning sunrise.
- c. Photocell Control: Fixtures shall turn off when adequate daylight levels are present and shall activate if low light levels are detected (heavy cloud cover, etc.) via input from rooftop photocell.

L. Exterior Lighting - Parking Lot Area Lighting
- a. System Intent: Provide wireless mesh network control with individually addressable light fixtures. Refer to Light Fixture Schedule for additional information.
- b. Time Control: Astronomic time-based control with manual override.
- c. Setback: At 1-hour after building close, lighting shall dim to 50% until morning sunrise.
  - Motion Control: Fixtures in zones (re. site plan for zoning) shall raise to 100% on for 20 minutes upon detection of movement during after-hours setback. Lights shall return to dimmed setback level after no motion is detected during specified time interval.
- d. Photocell Control: Fixtures shall turn off when adequate daylight levels are present and shall activate if low light levels are detected (heavy cloud cover, etc.) via input from rooftop photocell.

M. Interior Stairwells & Vestibules
- a. Occupied Hours
  - Stair lights shall remain on 24 hours per day. Lights to 100% during occupied hours.
- b. Unoccupied Hours
  - Stair lights shall remain on 24 hours per day. Lights to 50% during unoccupied hours.

LIGHTING CONTROL PANEL SCHEDULE

PANEL NAME: RPA11 — MOUNTING: SURFACE
LOCATION: MECHANICAL 2414 — VOLTAGE: 120 / 277

RELAY	CIRCUIT	LOAD CONTROLLED	MODULE TYPE	LOAD (WATTS)	ZONE
1	HA11-19	EXT. LIGHTING - A BLDG SW SCONCES	NON-DIM	RE. DWGS	K
2	HA11-11	LIGHTING - HALLWAY/PORCH 2420	NON-DIM	RE. DWGS	B
3	HA11-15	LIGHTING - HALLWAY 2400/2410	NON-DIM	RE. DWGS	B
4	HA11-15	LIGHTING - STAIR 2110-S, 3100	0-10V	RE. DWGS	M
5	HA11-5	LIGHTING - GYM 2310 - SOUTH	0-10V	RE. DWGS	H
6	HA11-7	LIGHTING - GYM 2310 - CENTER	0-10V	RE. DWGS	H
7	HA11-9	LIGHTING - GYM 2310 - NORTH	0-10V	RE. DWGS	H
8	HA11-53	LIGHTING - EXTERIOR SCRIM - LOWER	0-10V	RE. DWGS	K
9	HA11-55	LIGHTING - EXTERIOR SCRIM - UPPER	0-10V	RE. DWGS	K
10	-	SPARE	-	-	-
11	-	SPARE	-	-	-
12	-	SPARE	-	-	-

LIGHTING CONTROL PANEL SCHEDULE

PANEL NAME: RPA12 — MOUNTING: SURFACE
LOCATION: ELECTRICAL 2452.A — VOLTAGE: 120 / 277

RELAY	CIRCUIT	LOAD CONTROLLED	MODULE TYPE	LOAD (WATTS)	ZONE
1	HA12-21	SOUTH & COURTYARD LIGHT COLUMNS	0-10V	RE. DWGS	K
2	HA12-25	EXT. LIGHTING - A BLDG COURTYARD SCONCES	NON-DIM	RE. DWGS	K
3	HA12-27	EXT. LIGHTING - A BLDG NE SCONCES	NON-DIM	RE. DWGS	K
4	HA12-17	LIGHTING - CORRIDOR 2440, FLEX 2450	NON-DIM	RE. DWGS	B
5	HA12-17	LIGHTING - PORCH 2440	0-10V	RE. DWGS	B
6	HA12-15	LIGHTING - CORRIDOR 2460, FLEX 2468	NON-DIM	RE. DWGS	B
7	HA12-15	LIGHTING - STAIR 2460-S1/S2, 3400-S1/S2	0-10V	RE. DWGS	M
8	HA12-29	LIGHTING - CORRIDOR 3400/20, FLEX 3413/19/29/35	NON-DIM	RE. DWGS	B
9	HA12-29	LIGHTING - PORCH 3400, 3420	0-10V	RE. DWGS	B
10	HA12-15	LIGHTING - CORRIDOR 2460 CONNECTOR	0-10V, PC	RE. DWGS	B
11	-	SPARE	-	-	-
12	-	SPARE	-	-	-

LIGHTING CONTROL PANEL SCHEDULE

PANEL NAME: RPM — MOUNTING: SURFACE
LOCATION: — VOLTAGE: 120 / 277

RELAY	CIRCUIT	LOAD CONTROLLED	MODULE TYPE	LOAD (WATTS)	ZONE
1	HM-7	LIGHTING - CORRIDOR 2137, 2200	NON-DIM	RE. DWGS	B
2	HM-7	LIGHTING - FIELDHOUSE STAIR 2137-S	0-10V	RE. DWGS	M
3	HM-8	LIGHTING - CORRIDOR 2200 COVES	NON-DIM	RE. DWGS	B
4	HM-9	EXT. LIGHTING - PAC SCONCES	NON-DIM	RE. DWGS	K
5	HM-10	LIGHTING - SOUTH STAIR CORRIDOR	NON-DIM	RE. DWGS	M
6	HM-7	LIGHTING - ART GALLERY 2121	0-10V	RE. DWGS	B
7	-	SPARE	-	-	-
8	-	SPARE	-	-	-

LIGHTING CONTROL PANEL SCHEDULE

PANEL NAME: RPB11 — MOUNTING: SURFACE
LOCATION: ELECTRICAL 1619 — VOLTAGE: 120 / 277

RELAY	CIRCUIT	LOAD CONTROLLED	MODULE TYPE	LOAD (WATTS)	ZONE
1	HB11-13	CORRIDOR LIGHTING - 1610, 1640, FLEX 1614	NON-DIM	RE. DWGS	B
2	HB11-15	FRONT PORCH LIGHTING - 1610, 1640	NON-DIM	RE. DWGS	B
3	HB11-19	CORRIDOR LIGHTING - 2610, 2640	NON-DIM	RE. DWGS	B
4	HB11-21	FRONT PORCH LIGHTING - 2610, 2640	NON-DIM	RE. DWGS	B
5	HB11-17	STAIR LIGHTING - 1610 / 2610	0-10V	RE. DWGS	M
6	-	SPARE	-	-	-
7	-	SPARE	-	-	-
8	-	SPARE	-	-	-

LIGHTING CONTROL PANEL SCHEDULE

PANEL NAME: RPB12 — MOUNTING: SURFACE
LOCATION: MATERIAL STORAGE 1647 — VOLTAGE: 120 / 277

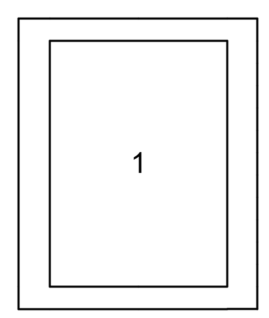
RELAY	CIRCUIT	LOAD CONTROLLED	MODULE TYPE	LOAD (WATTS)	ZONE
1	HB12-1	GREENWAY LIGHT COLUMNS	0-10V	RE. DWGS	K
2	HB12-5	LIGHTING - EAST ENTRY CANOPY	0-10V	RE. DWGS	K
3	HB12-5	LIGHTING - GREENWAY BRIDGE	0-10V	RE. DWGS	K
4	HB12-7	LIGHTING - ACTIVITY CENTER 1510	NON DIM	RE. DWGS	A
5	HB12-7	LIGHTING - ACTIVITY CENTER 1510 PERIMETER	0-10V, PC	RE. DWGS	A
6	HB12-7	LIGHTING - ACTIVITY CENTER 1510 NORTH DL	0-10V	RE. DWGS	A
7	HB12-7	LIGHTING - CORRIDOR 1640	NON DIM	RE. DWGS	B
8	HB12-9	LIGHTING - ACTIVITY CENTER 1510 WEST GENERAL	NON DIM	RE. DWGS	B
9	HB12-9	LIGHTING - ACTIVITY CENTER 1510 WEST WW	0-10V	RE. DWGS	B
10	HB12-9	LIGHTING - VESTIBULE 1500-V	0-10V	RE. DWGS	M
11	-	SPARE	-	-	-
12	-	SPARE	-	-	-

LIGHTING CONTROL PANEL SCHEDULE

PANEL NAME: RPB13 — MOUNTING: SURFACE
LOCATION: ELECTRICAL 1753 — VOLTAGE: 120 / 277

RELAY	CIRCUIT	LOAD CONTROLLED	MODULE TYPE	LOAD (WATTS)	ZONE
1	HB13-19	CORRIDOR LIGHTING - NORTH	NON-DIM	RE. DWGS	B
2	HB13-21	CORRIDOR LIGHTING - WEST, SOUTH, EAST	NON-DIM	RE. DWGS	B
3	HB13-1	EXT. LIGHTING - B BLDG NORTHEAST SCONCES	NON-DIM	RE. DWGS	K
4	HB13-3	EXT. LIGHTING - B BLDG NORTHWEST SCONCES	NON-DIM	RE. DWGS	K
5	HB13-5	EXT. LIGHTING - NORTH COURTYARD SCONCES	NON-DIM	RE. DWGS	K
6	HB13-19	FRONT PORCH, DISPLAY LIGHTING - NORTH	0-10V	RE. DWGS	B
7	HB13-11	NORTH GYM LIGHTING - WEST	-	-	-
8	-	NORTH GYM LIGHTING - CENTER	-	-	-
9	-	NORTH GYM LIGHTING - EAST	-	-	-
10	-	NORTH GYM LIGHTING - MEZZANINE	-	-	-
11	-	NORTH GYM LIGHTING - STAGE	-	-	-
12	-	SPARE	-	-	-

ONE-BUTTON WALL STATION

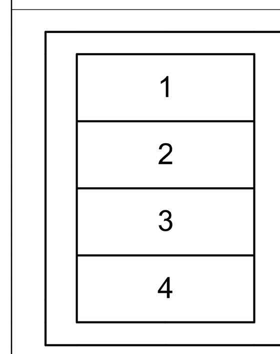


NOTE: ALL SWITCHES LISTED ON THIS SCHEDULE TO PROVIDE ON-ONLY OVERRIDE FUNCTION (TO BE USED DURING AFTER HOURS OPERATION) UNLESS NOTED OTHERWISE.

*** - IF PRESET LEVELS FOR DIMMABLE CIRCUITS ARE SET TO A DIFFERENT LEVEL FOR GENERAL DAYTIME USE, USE THAT SAME DIMMED LEVEL FOR AFTER HOURS OVERRIDE-ON...**

SWITCH TAG	BUTTON:	LABEL:	RELAY PANEL:	RELAY(S) - ACTION:
$N1a:	1:	HALL OVERRIDE	RPB13	1,6 - 100% ON*
$N1b:	1:	HALL OVERRIDE	RPB13	2 - 100% ON*
$N1c:	1:	HALL OVERRIDE	RPB11	1,2 - 100% ON*
$N1d:	1:	HALL OVERRIDE	RPB12	9 - 60%, 5,7,8 - 100% ON*
$N1e:	1:	HALL OVERRIDE	RPB11	3,4 - 100% ON*
$N1f:	1:	LIBRARY OVERRIDE	RPB22	1,2,5 - 100% ON*
$N1g:	1:	HALL OVERRIDE	RPB22	13 - 60%, 7,12,14 - 100% ON*
$N1h:	1:	HALL OVERRIDE	RPC22	17 - 100% ON*
$N1i:	1:	HALL OVERRIDE	RPC22	4,22 - 60%, 2,3,6,7,21 - 100% ON*
$N1j:	1:	HALL OVERRIDE	RPC22	4 - 60%, 9-11,15 - 100% ON*
$N1k:	1:	HALL OVERRIDE	RPC11	1 - 100% ON*
$N1L:	1:	HALL OVERRIDE	RPM	1,3,6 - 100% ON*
$N1m:	1:	HALL OVERRIDE	RPA11	3 - 100% ON*
$N1n:	1:	HALL OVERRIDE	RPA11	2 - 100% ON*
$N1o:	1:	HALL OVERRIDE	RPA12	4,5,6,10 - 100% ON*
$N1p:	1:	HALL OVERRIDE	RPA12	8,9 - 100% ON*

FOUR-BUTTON WALL STATION



SWITCH TAG: **$N4a:**

BUTTON:	LABEL:	RELAY PANEL:	RELAY(S) - ACTION:
1:	FULL ON	RPB22	1,2,5 - 100%
2:	ECO ON	RPB22	1,2,5 - 40%
3:	DIM ON	RPB22	1,2,5 - 1%
4:	AV MODE	RPB22	1,2,5 - 100%, 8,9 - 10%, 10 - 0% (OFF)

SWITCH TAG: **$N4b:**

BUTTON:	LABEL:	RELAY PANEL:	RELAY(S) - ACTION:
1:	FULL ON	RPB12	9 - 60%, 4,5,7,8 - 100%
2:	ECO ON	RPB12	9 - 60%, 4,7,8 - 40%, 5 - 100%
3:	DIM ON	RPB12	9 - 60%, 4,7,8 - 1%, 5 - 100%
4:	AV MODE	RPB12	9 - 60%, 4,5,7,8 - 100%
		RPB22	8,9 - 10%, 10 - 0% (OFF)

SWITCH TAG: **$N4c: ACTIVITY CENTER 2520**

BUTTON:	LABEL:	RELAY PANEL:	RELAY(S) - ACTION:
1:	FULL ON	RPB22	3,4 - 100%
2:	ECO ON	RPB22	3,4 - 40%
3:	DIM ON	RPB22	3,4 - 1%
4:	AV MODE	RPB22	3 - 1%, 4 - 20%

SWITCH TAG: **$N4d: MEDIA 2501**

BUTTON:	LABEL:	RELAY PANEL:	RELAY(S) - ACTION:
1:	FULL ON	RPB22	11 - 100%
2:	ECO ON	RPB22	11 - 40%
3:	DIM ON	RPB22	11 - 1%
4:	--	--	--

SWITCH TAG: **$N4e: HEART 2100**

BUTTON:	LABEL:	RELAY PANEL:	RELAY(S) - ACTION:
1:	FULL ON	RPC22	12,13 - 100%
2:	ECO ON	RPC22	12 - 40%, 13 - 60%
3:	DIM ON	RPC22	12 - 1%, 13 - 10%
4:	--	--	--

SWITCH TAG: **$N4f: CAFETERIA 1110**

BUTTON:	LABEL:	RELAY PANEL:	RELAY(S) - ACTION:
1:	FULL ON	RPC11	3,4,5,6,7 - 100%
2:	ECO ON	RPC11	3,4 - 40%, 5,6 - 60%, 7 - 100%
3:	DIM ON	RPC11	3,4 - 1%, 5,6 - 10% 7 - 100%
4:	--	--	--

SWITCH TAG: **$N4g: NORTH GYM 1750**

BUTTON:	LABEL:	RELAY PANEL:	RELAY(S) - ACTION:
1:	FULL ON	RPB13	7,8,9,10 - 100%, 11 - 50%
2:	ECO ON	RPB13	7,8,9,10 - 40%, 11 - 20%
3:	DIM ON	RPB13	7,8,9,10 - 5%, 11 - 2%
4:	AV MODE	RPB13	7,8,9,10 - 1%, 11 - 0% (OFF)

SWITCH TAG: **$N4h: FIELDHOUSE 2150**

BUTTON:	LABEL:	RELAY PANEL:	RELAY(S) - ACTION:
1:	FULL ON	RP2G	3-18,21,22 - 100%, 1,2,19,20,23,24 - 50%
2:	ECO ON	RP2G	3-18,21,22 - 40%, 1,2,19,20,23,24 - 20%
3:	DIM ON	RP2G	3-18,21,22 - 5%, 1,2,19,20,23,24 - 2%
4:	--	--	--

SWITCH TAG: **$N4i: SOUTH GYM 2310**

BUTTON:	LABEL:	RELAY PANEL:	RELAY(S) - ACTION:
1:	FULL ON	RPA11	7,8,9,10 - 100%, 11 - 50%
2:	ECO ON	RPA11	7,8,9,10 - 40%, 11 - 20%
3:	DIM ON	RPA11	7,8,9,10 - 5%, 11 - 2%
4:	--	--	--

LIGHTING CONTROL PANEL SCHEDULE

PANEL NAME: RPB22 — MOUNTING: SURFACE
LOCATION: ELECTRICAL 2521 — VOLTAGE: 120 / 277

RELAY	CIRCUIT	LOAD CONTROLLED	MODULE TYPE	LOAD (WATTS)	ZONE
1	HB22-4	LIGHTING - LIBRARY 2510	0-10V	RE. DWGS	A
2	HB22-6	LIGHTING - FLEX 2513-2516	0-10V	RE. DWGS	A
3	HB22-8	LIGHTING - ACTIVITY CENTER 2520 - GENERAL	0-10V, PC	RE. DWGS	A
4	HB22-8	LIGHTING - ACTIVITY CENTER 2520 - TV AREA	0-10V	RE. DWGS	A
5	HB22-8	LIGHTING - LIBRARY 2510 PERIMETER	0-10V, PC	RE. DWGS	A
6	HB22-8	LIGHTING - STAIR 2640	0-10V	RE. DWGS	M
7	HB22-6	LIGHTING - DISPLAY CASE 2511	0-10V	RE. DWGS	B
8	HB22-10	LIGHTING - LEARNING STAIR REAR P6	0-10V	RE. DWGS	M
9	HB22-10	LIGHTING - LEARNING STAIR MAIN	0-10V	RE. DWGS	M
10	HB22-10	LIGHTING - LEARNING STAIR PROJECTOR	0-10V	RE. DWGS	M
11	HB22-10	LIGHTING - MEDIA 2510	0-10V	RE. DWGS	A
12	HB22-7	LIGHTING - INNOVATION WAY GENERAL	NON-DIM	RE. DWGS	B
13	HB22-9	LIGHTING - INNOVATION WAY WEST WALLWASH	0-10V	RE. DWGS	B
14	HB22-9	LIGHTING - INNOVATION WAY EAST WALLWASH	0-10V	RE. DWGS	B
15	HB22-7	EXT. LIGHTING - TERRACE SCONCES	NON-DIM	RE. DWGS	K
16	-	SPARE	-	-	-
17	-	SPARE	-	-	-
18	-	SPARE	-	-	-
19	-	SPARE	-	-	-
20	-	SPARE	-	-	-
21	-	SPARE	-	-	-
22	-	SPARE	-	-	-
23	-	SPARE	-	-	-
24	-	SPARE	-	-	-

LIGHTING CONTROL PANEL SCHEDULE

PANEL NAME: RPC11 — MOUNTING: SURFACE
LOCATION: ELECTRICAL 1153 — VOLTAGE: 120 / 277

RELAY	CIRCUIT	LOAD CONTROLLED	MODULE TYPE	LOAD (WATTS)	ZONE
1	HC11-3	LIGHTING - FIELDHOUSE (FH) LOBBY	NON-DIM	RE. DWGS	B
2	HC11-3	LIGHTING - FIELDHOUSE STAIRS 2150-S1/S2	0-10V	RE. DWGS	M
3	HC11-5	LIGHTING - CAFETERIA PENDANTS NORTH	NON-DIM	RE. DWGS	A
4	HC11-7	LIGHTING - CAFETERIA PENDANTS SOUTH	NON-DIM	RE. DWGS	A
5	HC11-9	LIGHTING - CAFETERIA RECESSED PERIMETER	NON-DIM	RE. DWGS	A
6	HC11-9	LIGHTING - CAFETERIA WALLWASH	0-10V	RE. DWGS	A
7	HC11-9	LIGHTING - CORRIDOR 1120	NON-DIM	RE. DWGS	B
8	-	SPARE	-	-	-
9	-	SPARE	-	-	-
10	-	SPARE	-	-	-
11	-	SPARE	-	-	-
12	-	SPARE	-	-	-

LIGHTING CONTROL PANEL SCHEDULE

PANEL NAME: RPC22 — MOUNTING: SURFACE
LOCATION: ELECTRICAL 2026 — VOLTAGE: 120 / 277

RELAY	CIRCUIT	LOAD CONTROLLED	MODULE TYPE	LOAD (WATTS)	ZONE
1	HC22-4	WEST LIGHT COLUMNS	0-10V	RE. DWGS	K
2	HC22-8	LIGHTING - CORR. 2130 GENERAL NORTH	NON-DIM	RE. DWGS	B
3	HC22-8	LIGHTING - CORR. 2130 GENERAL SOUTH	0-10V, PC	RE. DWGS	B
4	HC22-10	LIGHTING - CORR. 2130 WALLWASH	0-10V	RE. DWGS	B
5	HC22-8	LIGHTING - CORR. 2130 FH ENTRY STAIR	0-10V	RE. DWGS	M
6	HC22-8	LIGHTING - CORR. 2130 FH ENTRY GENERAL	0-10V	RE. DWGS	B
7	HC22-8	LIGHTING - CORR. 2130 FH ENTRY WALLWASH	0-10V	RE. DWGS	B
8	-	SPARE	-	-	-
9	HC22-14	LIGHTING - CORRIDOR 2110 GENERAL	0-10V, PC	RE. DWGS	B
10	HC22-14	LIGHTING - HEART N. CORRIDOR 2110	NON-DIM	RE. DWGS	B
11	HC22-14	LIGHTING - HEART N. CORRIDOR WW 2110	0-10V	RE. DWGS	B
12	HC22-16	LIGHTING - HEART 2100 GENERAL	0-10V	RE. DWGS	A
13	HC22-16	LIGHTING - HEART 2100 WALLWASH	0-10V	RE. DWGS	A
14	HC22-16	LIGHTING - HEART 2100 STAIR	0-10V	RE. DWGS	M
15	HC22-14	LIGHTING - CORRIDOR 2110 SOUTH	NON-DIM	RE. DWGS	B
16	-	SPARE	-	-	-
17	HC22-18	LIGHTING - ADMIN LVL 1, LVL 2 CORRIDORS	NON-DIM	RE. DWGS	B
18	HC22-18	LIGHTING - ADMIN LVL 2 STAIR 2004-S	0-10V	RE. DWGS	M
19	HC22-18	LIGHTING - ADMIN LVL 2 VESTIBULE 2000	0-10V	RE. DWGS	M
20	HC22-18	LIGHTING - ADMIN LVL 2 VEST. 2000 EXTERIOR	0-10V	RE. DWGS	K
21	HC22-20	LIGHTING - CORRIDDOR 1100 GENERAL	NON-DIM	RE. DWGS	B
22	HC22-20	LIGHTING - CORRIDOR 1100 WALLWASH	0-10V	RE. DWGS	B
23	HC22-20	LIGHTING - VESTIBULE 1100-V	0-10V	RE. DWGS	M
24	HC22-20	EXT. LIGHTING - FIELDHOUSE SCONCES	NON-DIM	RE. DWGS	K

LIGHTING CONTROL PANEL SCHEDULE

PANEL NAME: RP2G — MOUNTING: SURFACE
LOCATION: MECHANICAL 3054 — VOLTAGE: 120 / 277

RELAY	CIRCUIT	LOAD CONTROLLED	MODULE TYPE	LOAD (WATTS)	ZONE
1	LC2G-1	LIGHTING - FIELDHOUSE 1	0-10V	RE. DWGS	H
2	LC2G-3	LIGHTING - FIELDHOUSE 2	0-10V	RE. DWGS	H
3	LC2G-5	LIGHTING - FIELDHOUSE 3	0-10V	RE. DWGS	H
4	LC2G-7	LIGHTING - FIELDHOUSE 4	0-10V	RE. DWGS	H
5	LC2G-9	LIGHTING - FIELDHOUSE 5	0-10V	RE. DWGS	H
6	LC2G-11	LIGHTING - FIELDHOUSE 6	0-10V	RE. DWGS	H
7	LC2G-13	LIGHTING - FIELDHOUSE 7	0-10V	RE. DWGS	H
8	LC2G-15	LIGHTING - FIELDHOUSE 8	0-10V	RE. DWGS	H
9	LC2G-17	LIGHTING - FIELDHOUSE 9	0-10V	RE. DWGS	H
10	LC2G-19	LIGHTING - FIELDHOUSE 10	0-10V	RE. DWGS	H
11	LC2G-21	LIGHTING - FIELDHOUSE 11	0-10V	RE. DWGS	H
12	LC2G-23	LIGHTING - FIELDHOUSE 12	0-10V	RE. DWGS	H
13	LC2G-25	LIGHTING - FIELDHOUSE 13	0-10V	RE. DWGS	H
14	LC2G-27	LIGHTING - FIELDHOUSE 14	0-10V	RE. DWGS	H
15	LC2G-29	LIGHTING - FIELDHOUSE 15	0-10V	RE. DWGS	H
16	LC2G-31	LIGHTING - FIELDHOUSE 16	0-10V	RE. DWGS	H
17	LC2G-37	LIGHTING - FIELDHOUSE 17	0-10V	RE. DWGS	H
18	LC2G-39	LIGHTING - FIELDHOUSE 18	0-10V	RE. DWGS	H
19	LC2G-2	LIGHTING - FIELDHOUSE 19	0-10V	RE. DWGS	H
20	LC2G-4	LIGHTING - FIELDHOUSE 20	0-10V	RE. DWGS	H
21	LC2G-6	LIGHTING - FIELDHOUSE 21	0-10V	RE. DWGS	H
22	LC2G-8	LIGHTING - FIELDHOUSE 22	0-10V	RE. DWGS	H
23	LC2G-10	LIGHTING - FIELDHOUSE 23	0-10V	RE. DWGS	H
24	LC2G-12	LIGHTING - FIELDHOUSE 24	0-10V	RE. DWGS	H
25	-	SPARE	-	-	-
26	-	SPARE	-	-	-
27	-	SPARE	-	-	-
28	-	SPARE	-	-	-
29	-	SPARE	-	-	-
30	-	SPARE	-	-	-
31	-	SPARE	-	-	-
32	-	SPARE	-	-	-

MODULE TYPE LEGEND:

- ELV = ELECTRONIC LOW VOLTAGE DIMMING
- MLV = MAGNETIC LOW VOLTAGE DIMMING
- NON-DIM = SWITCHING ONLY LOAD (NO DIMMING)
- PC = CONTROL VIA NETWORKED PHOTOCELL
- (VB) = PROVIDE VOLTAGE BARRIER BETWEEN SECTIONS
- 0-10V = 0-10V DIMMING
- 2-WIRE = 2-WIRE DIMMING
- 3-WIRE = 3-WIRE DIMMING
- DMX = COLOR CHANGING DIMMING

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STATE OF MISSOURI
DOUGLAS M. EVERHART
NUMBER PE-2019007648
PROFESSIONAL ENGINEER

Dec 28 2020
DOUGLAS M. EVERHART
LICENSE # PE-2019007648
1950004111
MO. CORPORATE NO: E-556D
EXPIRES 12/31/2021

REVISIONS

Number	DESCRIPTION	DATE

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/14/2021

PROJECT NO: 0119-0100
DATE: December 29, 2020

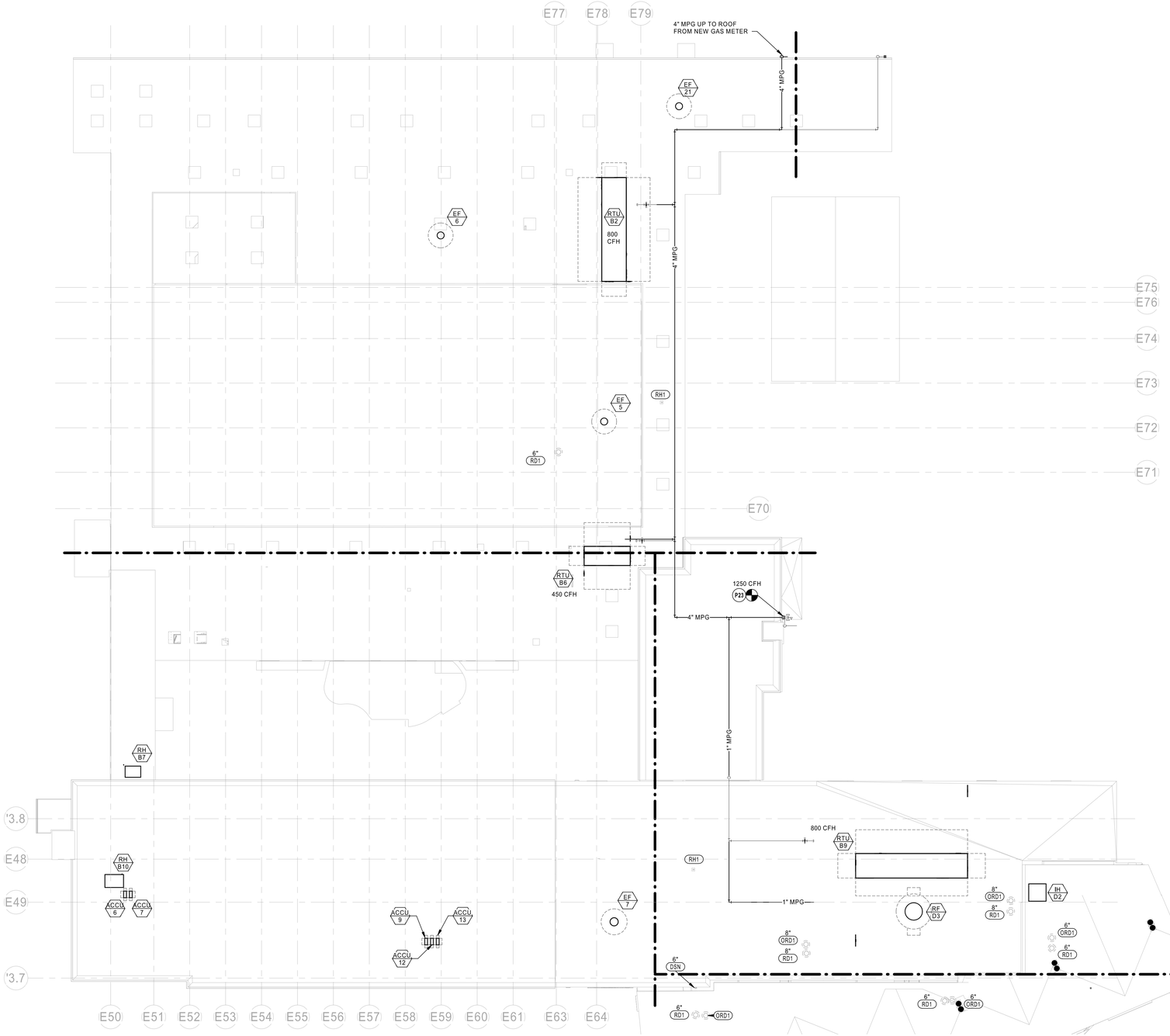
Package 2

LIGHTING CONTROLS - NETWORKED

E702

Issued for Construction

DOUGLAS M. EVERHART



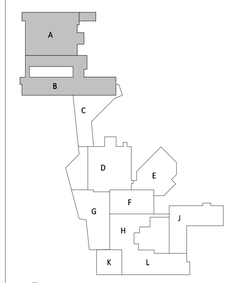
1 MECHANICAL & PLUMBING ROOF PLAN - NORTH
1/16" = 1'-0"

MEP PLAN NOTES:

P23 CONNECT NEW GAS PIPING INTO THE EXISTING GAS SYSTEM ON ROOF. FIELD VERIFY THAT THE EXISTING GAS SYSTEM'S LOCATION, SIZE, AND DIRECTION OF FLOW IS COMPATIBLE FOR MEETING THE NEW GAS PIPE CONNECTION AND REQUIREMENTS. NOTIFY THE ARCHITECT AS SOON AS POSSIBLE IF CONFLICTS ARE FOUND WITH NEW DESIGN AND THE EXISTING GAS SYSTEM.

NOTE: ALL EXISTING GAS REGULATORS SHALL BE REPLACED WITH NEW 5 PSI GAS PRESSURE REGULATOR UNDER THE NEW CONSTRUCTION.

Key Plan:



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EXPIRES 12/31/2020

STATE OF MISSOURI
CARL J. HOLDEN
NUMBER PE-2020016283
PROFESSIONAL ENGINEER

Nov 20 2020

CARL J. HOLDEN
LICENSE # PE-2020016283

REVISIONS

Number	DESCRIPTION	DATE

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/14/2021

PROJECT NO: 0119-0100
DATE: November 20, 2020

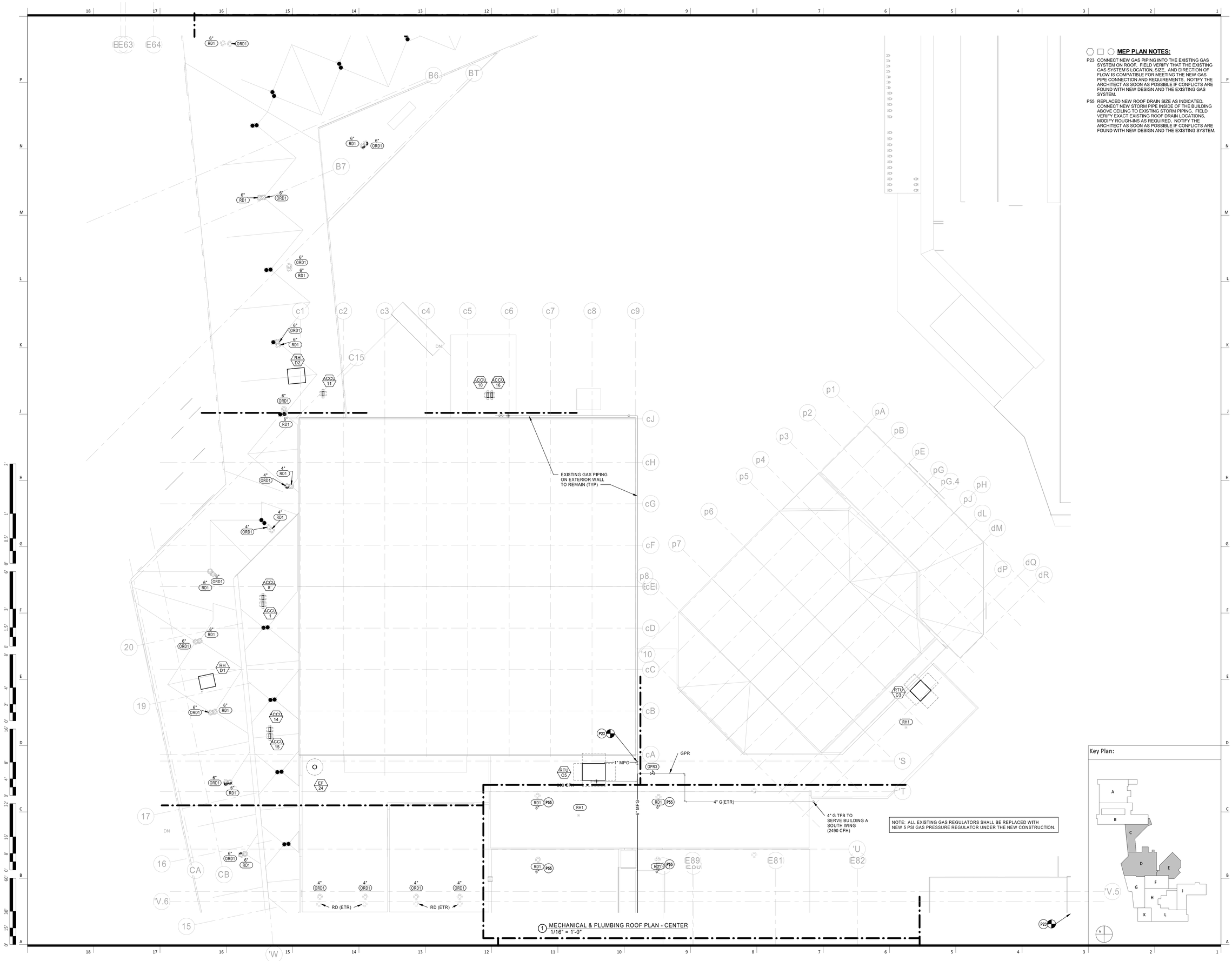
Package 2

MECHANICAL & PLUMBING ROOF PLAN - NORTH

MP111

Final Development Plan

CARL J. HOLDEN



1 MECHANICAL & PLUMBING ROOF PLAN - CENTER
1/16" = 1'-0"

MEP PLAN NOTES:

P23 CONNECT NEW GAS PIPING INTO THE EXISTING GAS SYSTEM ON ROOF. FIELD VERIFY THAT THE EXISTING GAS SYSTEM'S LOCATION, SIZE, AND DIRECTION OF FLOW IS COMPATIBLE FOR MEETING THE NEW GAS PIPE CONNECTION AND REQUIREMENTS. NOTIFY THE ARCHITECT AS SOON AS POSSIBLE IF CONFLICTS ARE FOUND WITH NEW DESIGN AND THE EXISTING GAS SYSTEM.

P55 REPLACED NEW ROOF DRAIN SIZE AS INDICATED. CONNECT NEW STORM PIPE INSIDE OF THE BUILDING ABOVE CEILING TO EXISTING STORM PIPING. FIELD VERIFY EXACT EXISTING ROOF DRAIN LOCATIONS, MODIFY ROUGH-INS AS REQUIRED. NOTIFY THE ARCHITECT AS SOON AS POSSIBLE IF CONFLICTS ARE FOUND WITH NEW DESIGN AND THE EXISTING SYSTEM.

NOTE: ALL EXISTING GAS REGULATORS SHALL BE REPLACED WITH NEW 5 PSI GAS PRESSURE REGULATOR UNDER THE NEW CONSTRUCTION.

Key Plan:

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STATE OF MISSOURI
CARL J. HOLDEN
NUMBER PE-2020016283
PROFESSIONAL ENGINEER

Nov 20 2020

CARL J. HOLDEN
LICENSE # PE-2020016283

REVISIONS

Number	DESCRIPTION	DATE

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/14/2021

PROJECT NO: 0119-0100
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Package 2

MECHANICAL & PLUMBING ROOF PLAN - CENTER

MP112

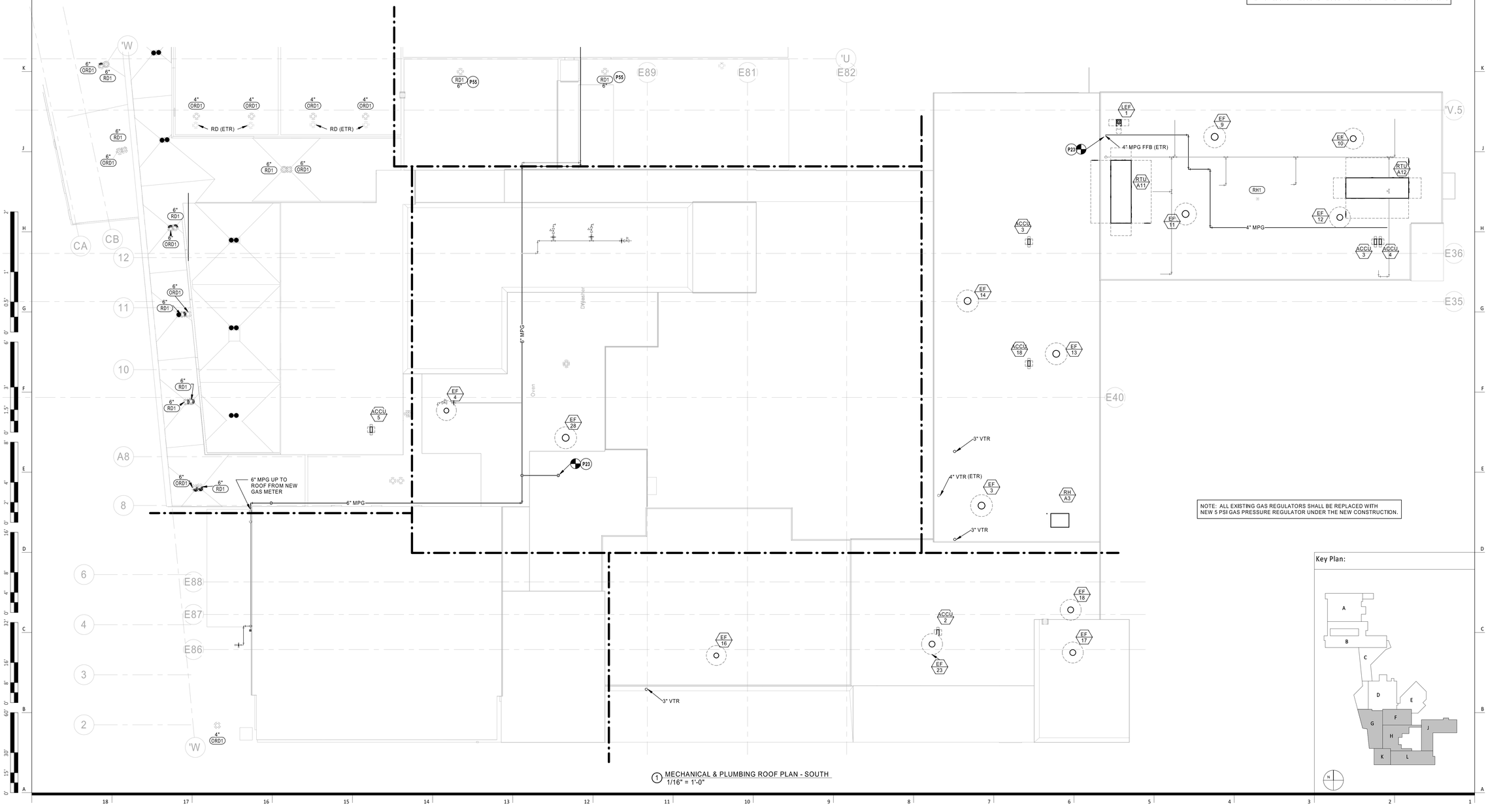
Final Development Plan

CARL J. HOLDEN

MEP PLAN NOTES:

P55 REPLACED NEW ROOF DRAIN SIZE AS INDICATED. CONNECT NEW STORM PIPE INSIDE OF THE BUILDING ABOVE CEILING TO EXISTING STORM PIPING. FIELD VERIFY EXACT EXISTING ROOF DRAIN LOCATIONS. MODIFY ROUGH-INS AS REQUIRED. NOTIFY THE ARCHITECT AS SOON AS POSSIBLE IF CONFLICTS ARE FOUND WITH NEW DESIGN AND THE EXISTING SYSTEM.

NOTE: ALL EXISTING GAS REGULATORS SHALL BE REPLACED WITH NEW 5 PSI GAS PRESSURE REGULATOR UNDER THE NEW CONSTRUCTION.



1 MECHANICAL & PLUMBING ROOF PLAN - SOUTH
1/16" = 1'-0"

NOTE: ALL EXISTING GAS REGULATORS SHALL BE REPLACED WITH NEW 5 PSI GAS PRESSURE REGULATOR UNDER THE NEW CONSTRUCTION.

Key Plan:

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Lee's Summit High School

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Lee's Summit, MO 64063

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Lee's Summit R-7 School District
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Lee's Summit, MO 64086

architect:
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MECHANICAL & PLUMBING ROOF PLAN - SOUTH

MP113

Final Development Plan

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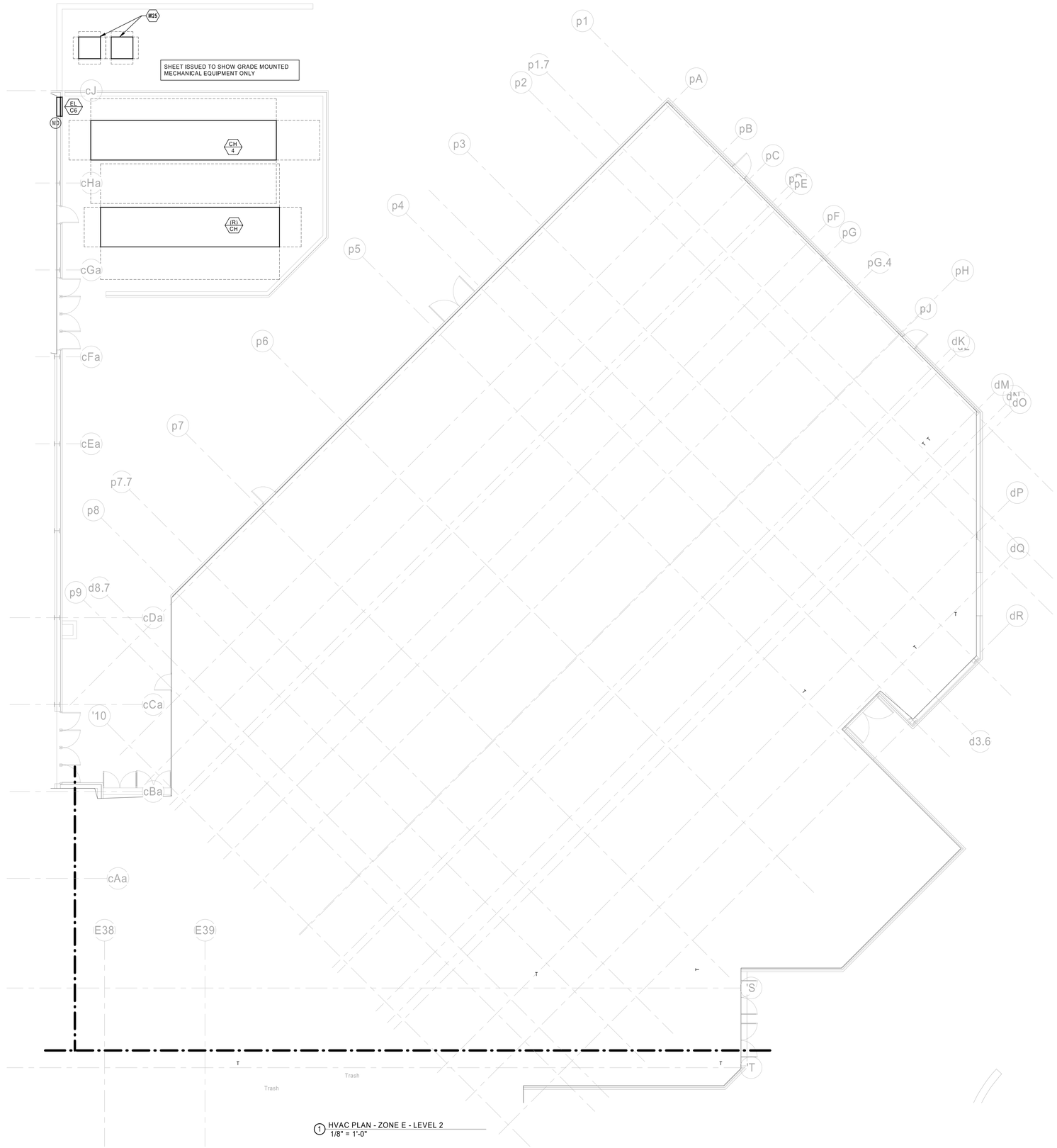
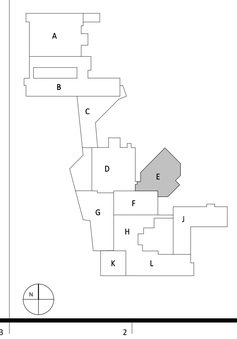
MECHANICAL PLAN NOTES:

M25 EXISTING CONDENSING UNIT FOR WALK-IN REFRIGERATOR/FREEZER TO BE RELOCATED TO THIS LOCATION. UNIT SHOWN FOR REFERENCE ONLY. REFER TO ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS.



1 HVAC PLAN - ZONE E - LEVEL 2
1/8" = 1'-0"

Key Plan:



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HVAC FLOOR PLAN - ZONE E - LEVEL 2

M123

Final Development Plan

CARL J. HOLDEN

MECHANICAL PLAN NOTES:

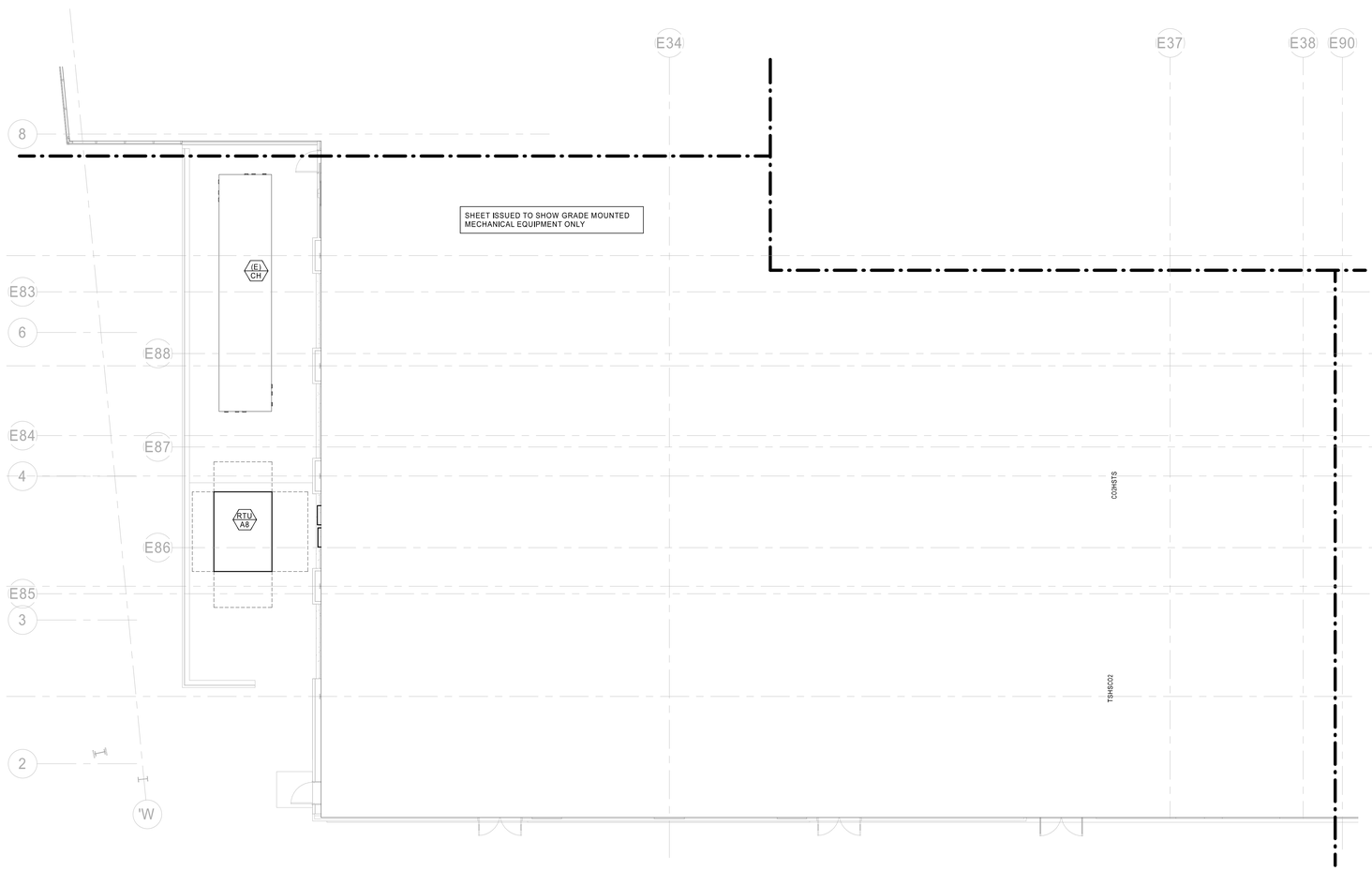
SHEET ISSUED TO SHOW GRADE MOUNTED MECHANICAL EQUIPMENT ONLY

(E) CH

RTU A8

CONNECTS

TO EXISTING



1 HVAC PLAN - ZONE K - LEVEL 2
1/8" = 1'-0"

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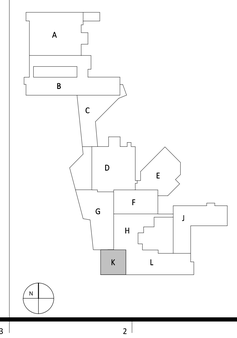

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Package 2

HVAC FLOOR PLAN - ZONE K - LEVEL 2

M128

Final Development Plan

CARL J. HOLDEN