

May 28, 2019

**ADDENDUM ACKNOWLEDGEMENT FORM**

To Whom It May Concern:

Concerning the **PSJA ISD NORTH ECHS RESTROOM RENOVATIONS AND COLLEGE AND UNIVERSITY CENTER RESTROOMS / SCIENCE LABS RENOVATIONS BID # 18-19-042**, to be opened at 4:00 p.m., Thursday, June 6, 2019. Please consider the following:

<b>Addendum Number:</b>	<b>Description of REVISED Addendum:</b>
2	<b>PLANS / DRAWINGS</b>

For any questions pertaining to these changes, please contact Emily Garza, Director of Purchasing at (956) 354-2000.

Sincerely,



Emily Garza  
Director of Purchasing

With the acceptance of this form, I acknowledge that I have received the above ***“ADDENDUM ACKNOWLEDGEMENT FORM”*** for the **PSJA ISD NORTH ECHS RESTROOM RENOVATIONS AND COLLEGE AND UNIVERSITY CENTER RESTROOMS / SCIENCE LABS RENOVATIONS BID # 18-19-042**, to be opened at 4:00 p.m., Thursday, June 6, 2019. Please include a signed copy of this ***“ADDENDUM ACKNOWLEDGMENT FORM”*** with your bid/proposal.

Company Name:	_____	Authorized Signature:	_____
Address:	_____ _____	Authorized Signature (Print):	_____
City / State / Zip:	_____	Email:	_____
Telephone Number:	_____	Fax Number:	_____

**START COLLEGE NOW! COMPLETE EARLY! GO FAR!**

**ADDENDUM NUMBER TWO (2)  
TO THE PLANS AND SPECIFICATIONS FOR:**

**May 28, 2019**

**NORTH ECHS  
AND  
COLLEGE & UNIVERSITY CAMPUS  
STUDENT RESTROOM RENOVATIONS**

**PSJA ISD  
Bid # 18-19-042  
Project No. 19.04**



**GIGNAC & ASSOCIATES  
3700 N. 10<sup>th</sup> STREET, SUITE 205  
McALLEN, TEXAS 78501  
(956) 686-0100**

This addendum is generally separated into sections for convenience; however, all contractors, subcontractors, materialmen, and other parties shall be responsible for reading the entire addendum. The failure to list an item or items in all affected sections of this addendum does not relieve any party affected from performing as per instructions, provided that the information is set forth any time, any place in this addendum. These documents shall be attached to and become a part of the contract documents for this project.

**PLAN ITEMS:**

**Item P-1-NORTH**

**Floorplan/Reflected Ceiling/Enlarged Floorplan/Interior Elevations**

Sheets A-110-N thru A-127-N included in this Addendum shall replace their respective sheets in the Contract Documents. Further labeling, dimensions, and clarification was added.

**Item P-2-NORTH**

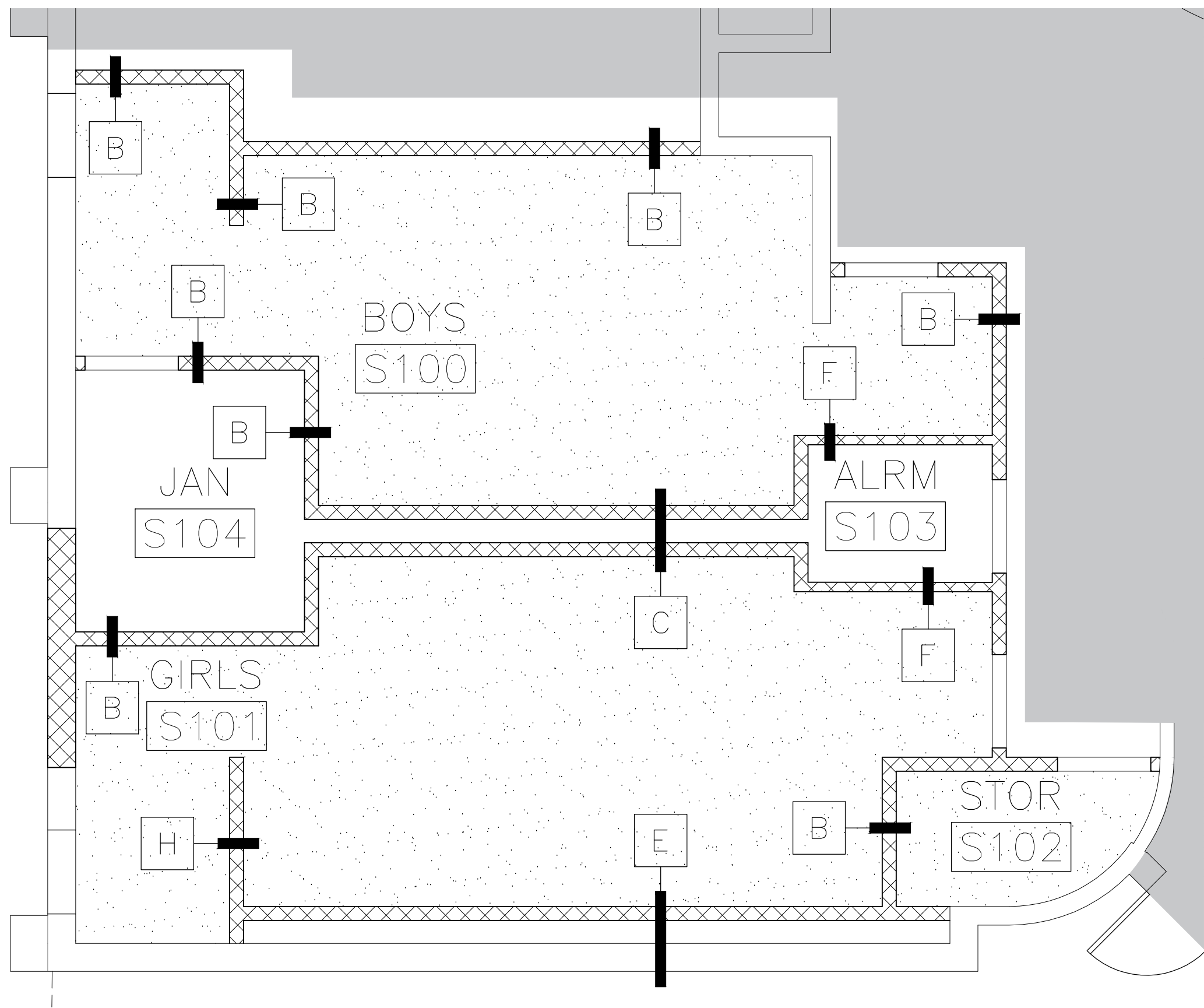
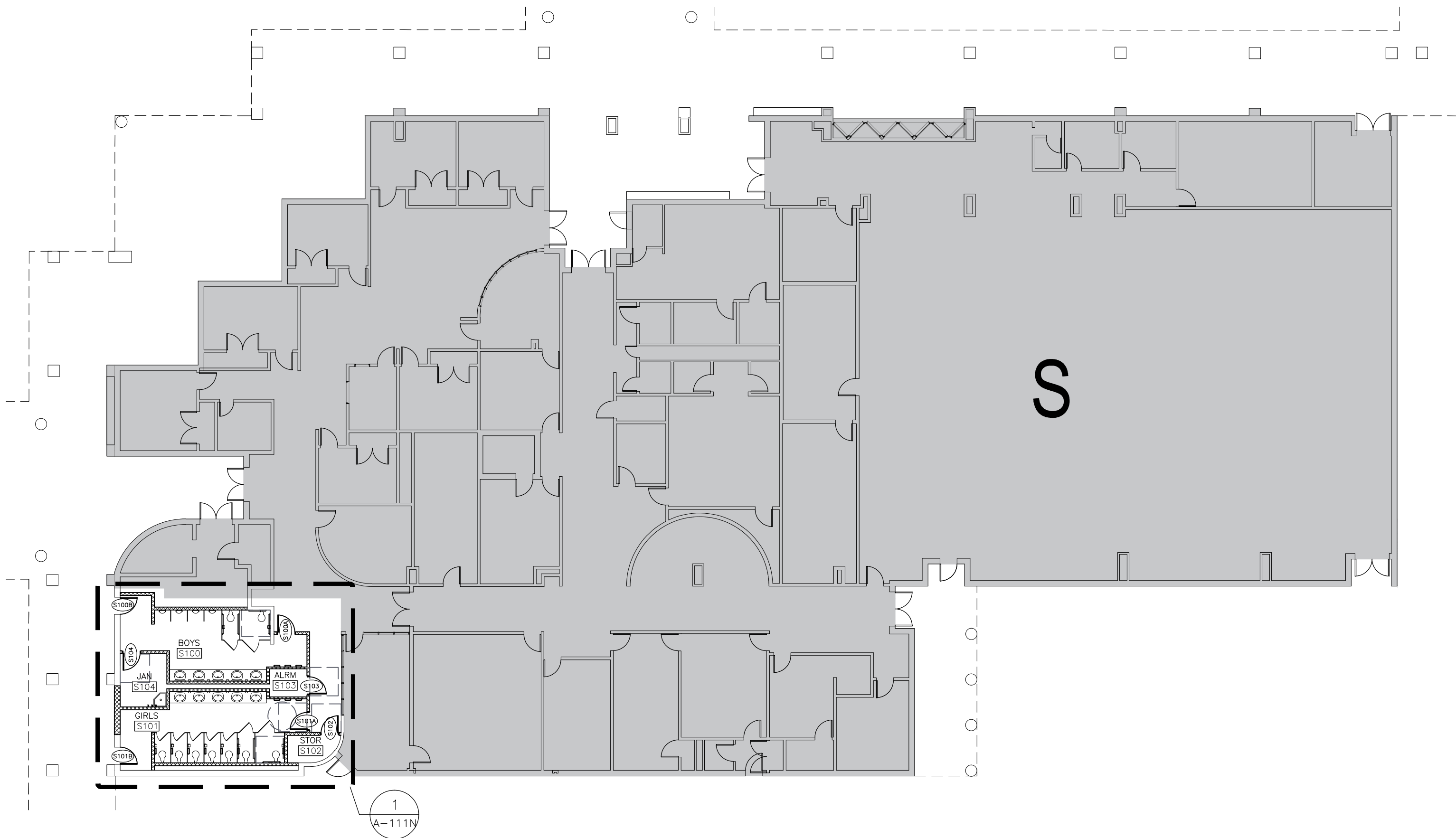
**Wall Types Sheet**

A-140-N (Wall Types) included in this Addendum shall be included as part of the Contract Documents. This sheet is to support the wall tags added in the Reflected Ceiling Plans in Item P-1.

GENERAL CONSTRUCTION NOTES							
1. DEMOLITION AND PROPOSED WORK WILL HAVE TO BE COORDINATED WITH THE OWNER TO MINIMIZE DISRUPTIONS TO THE CAMPUS, WHICH MAY BE IN USE.							
2. ANY EXISTING WALLS TO REMAIN THAT REQUIRE REPAIR AFTER DEMOLITION IS COMPLETE, SHALL BE OBSERVED BY THE DESIGN TEAM AND OWNER PRIOR TO REPAIR. COORDINATION WILL BE REQUIRED.							
3. ANY OPENINGS IN EXISTING WALLS SCHEDULED TO BE INFILLED SHALL HAVE THE SAME MATERIAL AND FINISH AS THAT OF THE EXISTING WALL. ALL INFILLED OPENINGS SHALL BE FLUSH WITH EXISTING WALL SURFACES AND PAINTED.							

DOOR SCHEDULE							
DOOR SCHEDULE	DOOR				FRAME		REMARKS
	WIDTH	HEIGHT	TYPE	MATERIAL	TYPE	MATERIAL	
S100A	3'-0"	7'-0"	FL	WD	A	HM	FIELD VERIFY EXISTING OPENING
S100B	3'-0"	7'-0"	FL	HM	A	HM	FIELD VERIFY EXISTING OPENING
S101A	3'-0"	7'-0"	FL	WD	A	HM	
S101B	3'-0"	7'-0"	FL	HM	A	HM	FIELD VERIFY EXISTING OPENING
S102	3'-0"	7'-0"	FL	WD	A	HM	
S103	3'-0"	7'-0"	FL	WD	A	HM	

ROOM FINISH SCHEDULE										
NUMBER	NAME	FLOOR	BASE	NORTH WALL	SOUTH WALL	EAST WALL	WEST WALL	CEILING	CLG HT.	NOTES
S100	BOYS	TILE: UNITY ASH GREY	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	GYP. PTD.	9'-0"	
S101	GIRLS	TILE: UNITY ASH GREY	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	GYP. PTD.	9'-0"	
S102	STORAGE	SEALED CONCRETE	NONE	PT	PT	PT	PT	EXP STRUC		PAINT EXPOSED STRUCTURE & DECK
S103	JANITOR	SEALED CONCRETE	NONE	PT	PT	PT	PT	EXP STRUC		PAINT EXPOSED STRUCTURE & DECK



REFLECTED CEILING LEGEND	
	PAINTED GYP. BOARD
	EXPOSED STRUCTURE, PAINTED
	THIS AREA NOT IN SCOPE
REFLECTED CEILING NOTES:	
1. REFER TO MEP DRAWINGS FOR CEILING MOUNTED ITEMS.	
2. FIELD VERIFICATION OF EXISTING STRUCTURE AND COORDINATION WITH MEP DURING SUBMITTAL PROCESS SHALL BE REQUIRED IN ORDER TO ACHIEVE MAXIMUM CEILING HEIGHTS.	



**KEYPLAN**

Project Number: 19.04  
Drawing Date: MAY 10, 2019  
Drawn: CQ  
Checked: JM  
Scale: VARIES  
ACAD File: DEMO PLAN

Revisions:	
1	ADD 1 - 5/24/19

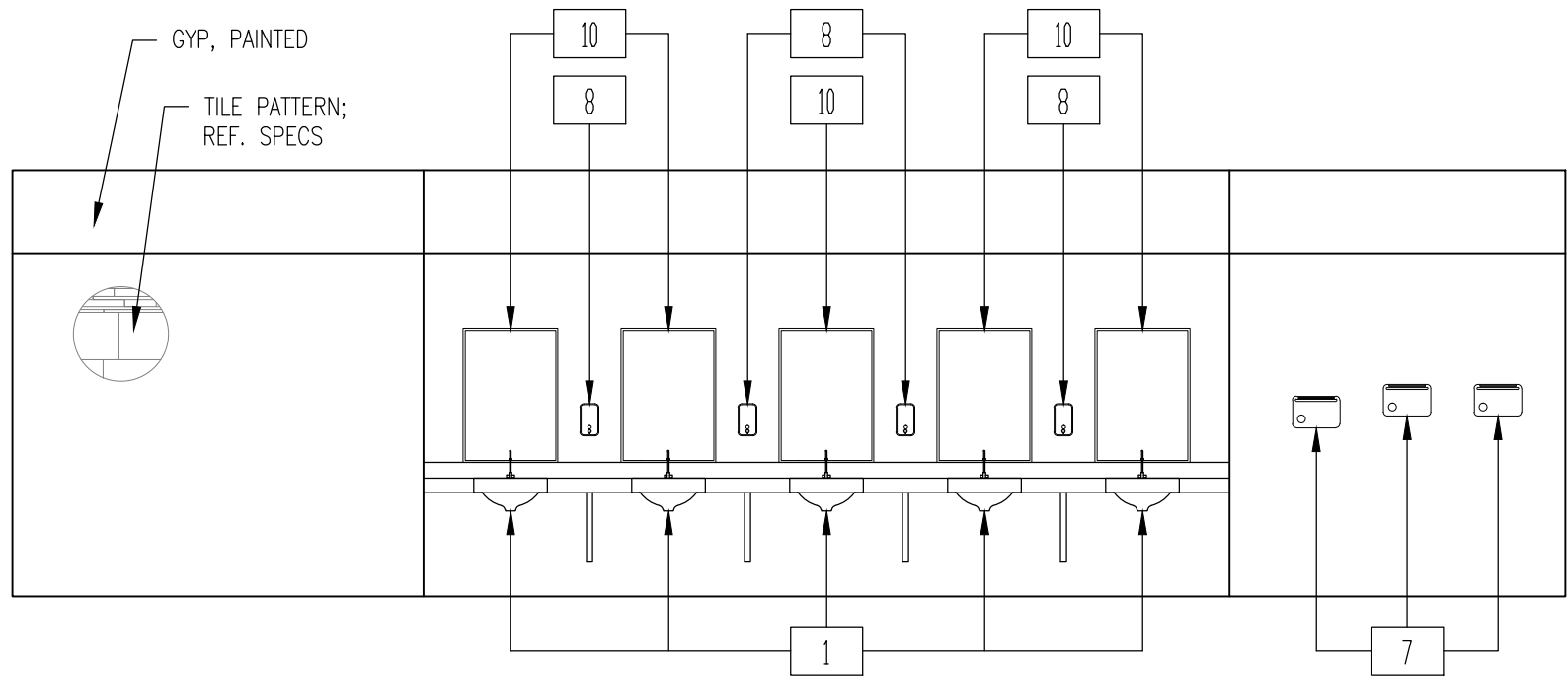
Sheet Title:

**BUILDING S**  
**FLOORPLAN &**  
**REFL. CLG. PLN.**

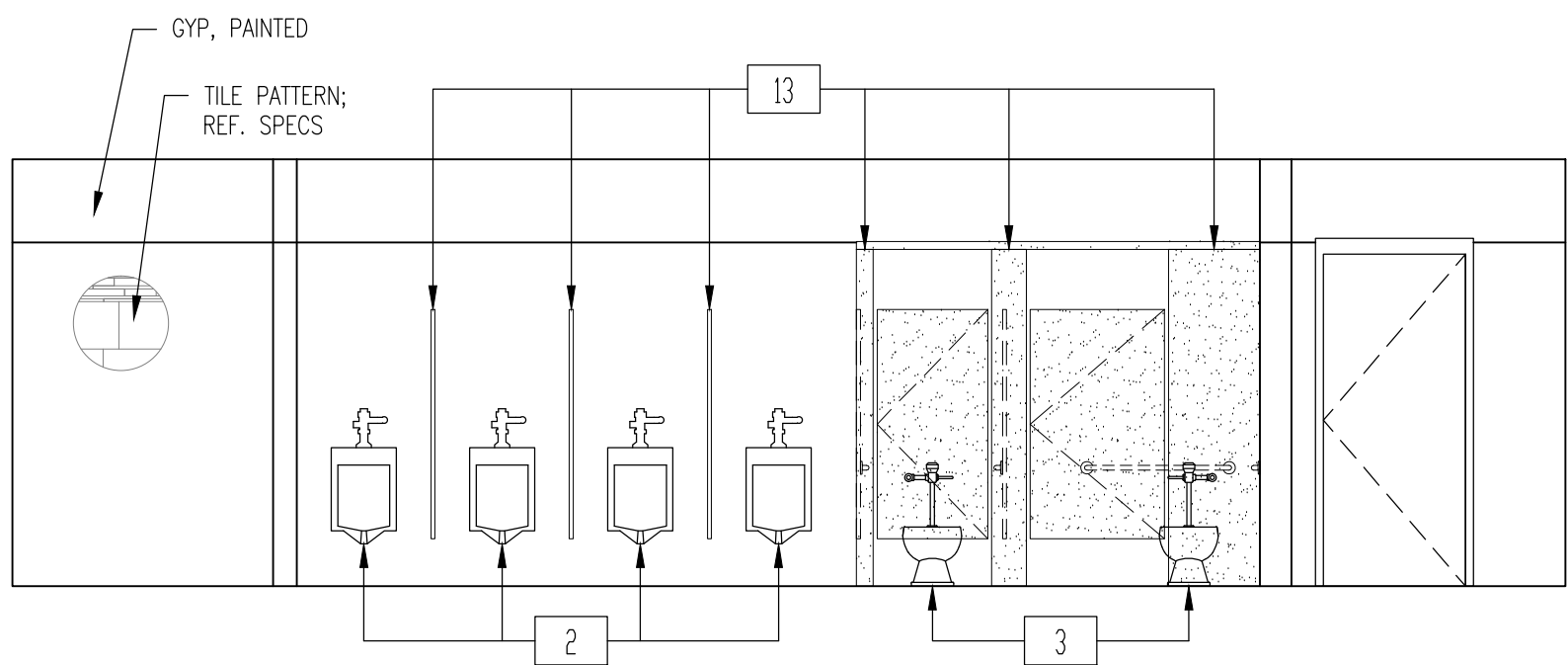
**ADD. 2**  
**A-110-N**



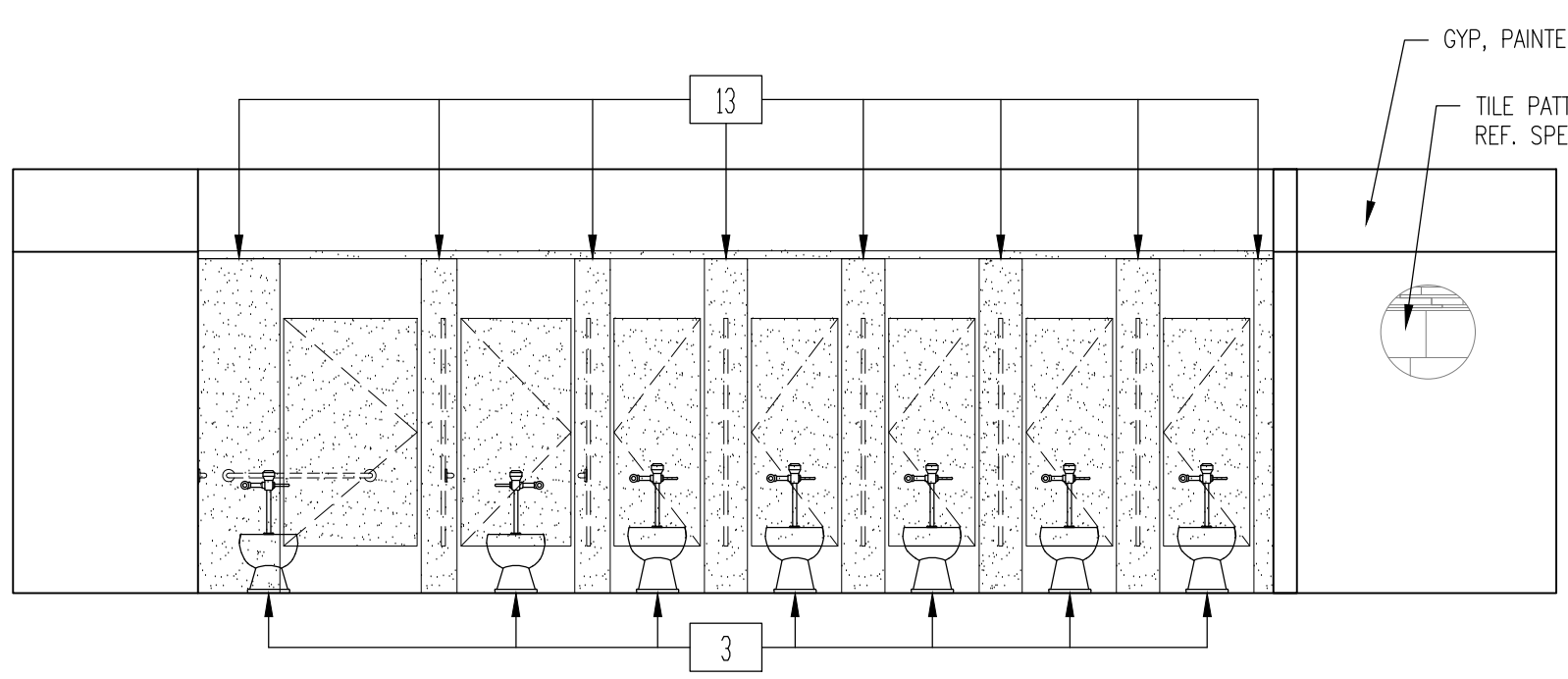
	FIXTURE MOUNTING HEIGHT SCHEDULE		ADULTS
	* REFER TO ADA GUIDELINES ON SHEET G-102.		
1	1. LAVATORIES/SINK (MEASURED FROM FLOOR TO RIM)	STANDARD ACCESSIBLE	32" 34" MAX (29" MIN KNEESPACE)
2	2. URINALS (MEASURED FROM FLOOR TO RIM)	STANDARD ACCESSIBLE	16" MAX 17" MAX
3	3. WATER CLOSETS (MEASURED FROM FLOOR TO TOP OF SEAT)	STANDARD ACCESSIBLE	15" 17" TO 19"
4	4. DRINKING FOUNTAINS AND EWC's FRONTAL APPROACH (MEASURED FROM FLOOR TO SPOUT OUTLET)	STANDARD ACCESSIBLE	42" 36" MAX (27" MIN KNEESPACE)
5	5. GRAB BARS (MEASURED FROM FLOOR TO CENTERLINE OF BAR - 36" LONG @ REAR WALL & 42" LONG @ SIDE WALL OR 90 DEGREE CONT. GRAB BAR WHERE INDICATED)	STANDARD ACCESSIBLE	33" TO 36" TO TOP OF GRAB BAR
6	6. TOILET TISSUE DISPENSER (MEASURED FROM FLOOR TO CENTERLINE OF ROLL)	STANDARD ACCESSIBLE	20" 19" MIN
7	7. ELECTRIC HAND DRYER (MEASURED FROM FLOOR TO CENTER OF CONTROL)	STANDARD ACCESSIBLE	48" 45" MAX
8	8. SOAP DISPENSER (MEASURED FROM FLOOR TO CENTERLINE OF PUSH BUTTON)	STANDARD ACCESSIBLE	38" 38"
9	9. SANITARY NAPKIN DISPOSAL UNIT (MEASURED FROM FLOOR TO TOP OF UNIT) (ONLY IN ROOMS LABELED WOMEN & GIRLS)	STANDARD ACCESSIBLE	40" 
10	10. MIRRORS MIRROR PER LAVATORY (NOT NOTED FOR CLARITY). MEASURED FROM FLOOR TO BOTTOM OF REFLECTING SURFACE.	STANDARD ACCESSIBLE	40" MAX 
11	11. MOP BASIN / SERVICE SINK (ONE PER ROOM LABELED CUSTODIAN)		
12	12. MOP HOLDER (ONE PER ROOM LABELED CUSTODIAN)		48" MAX
13	13. TOILET PARTITION / URINAL SCREEN	NOT NOTED FOR CLARITY	



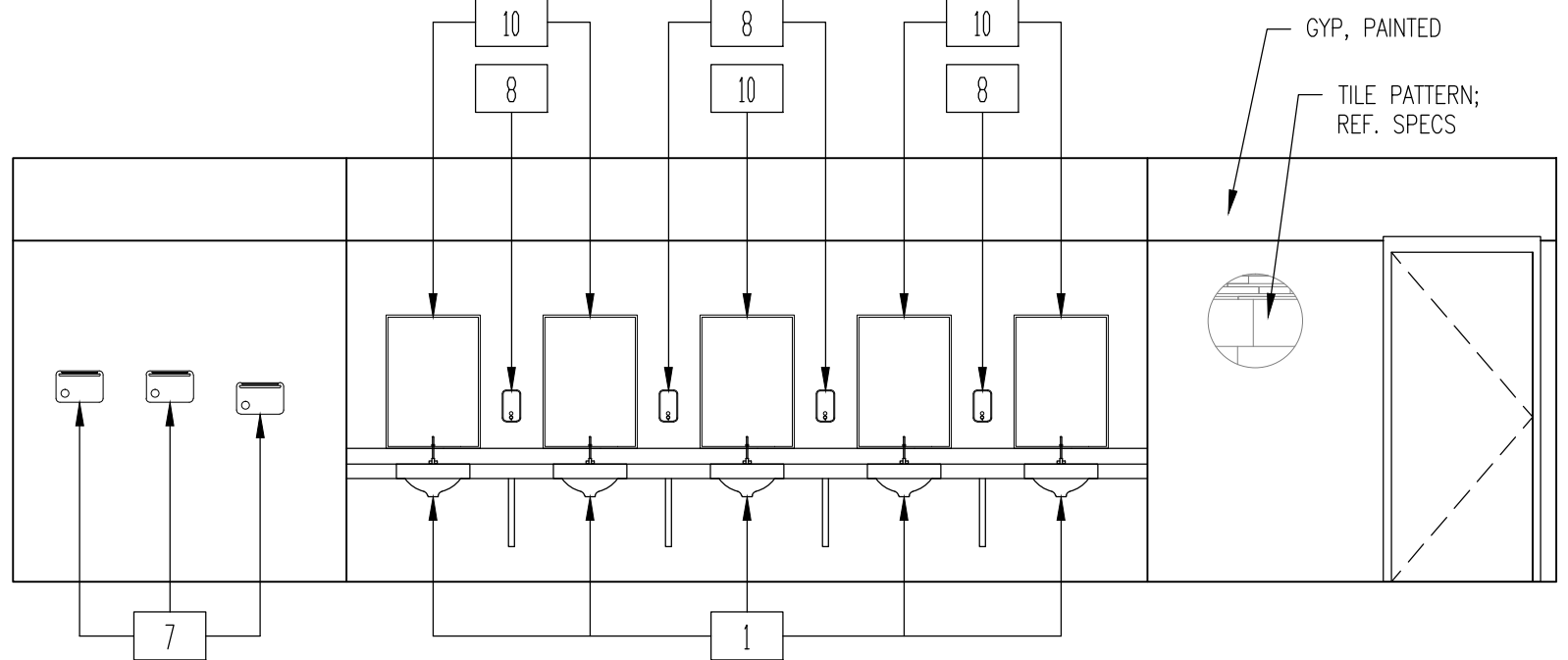
4 INTERIOR ELEVATION — GIRLS S101  
1/4" = 1'-0"



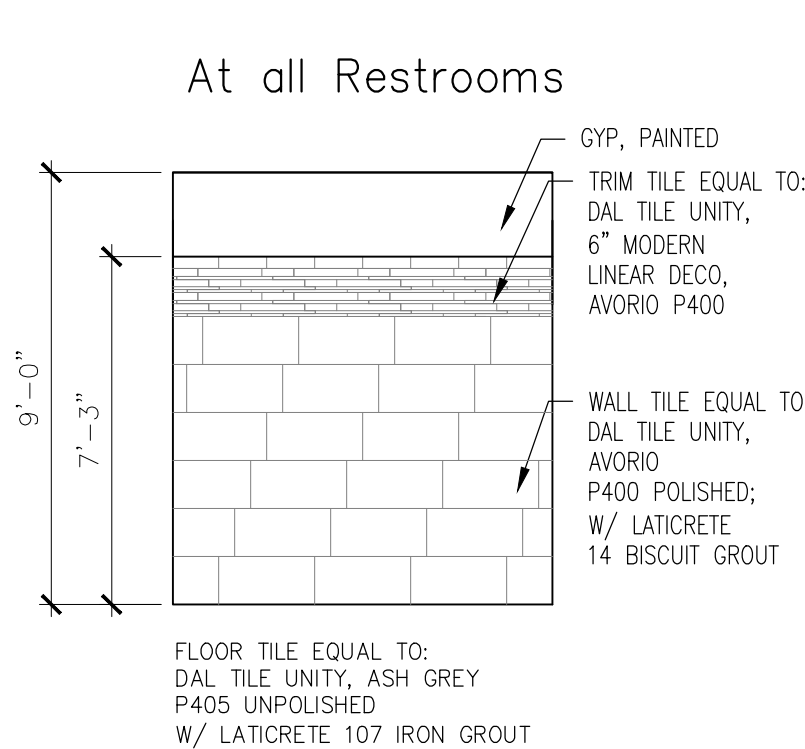
2 INTERIOR ELEVATION — BOYS S100  
1/4" = 1'-0"



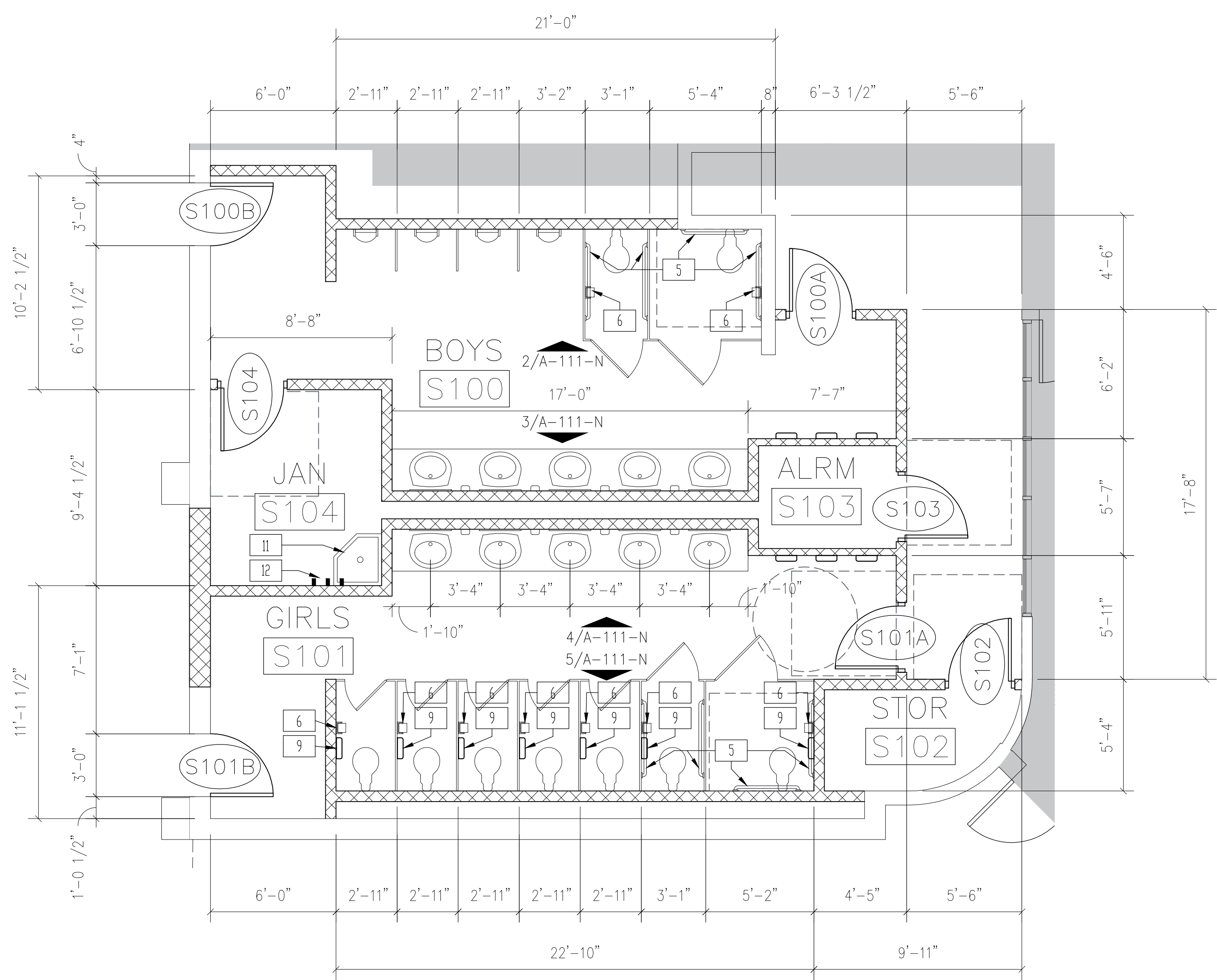
5 INTERIOR ELEVATION — GIRLS S101  
1/4" = 1'-0"



3 INTERIOR ELEVATION — BOYS S100  
1/4" = 1'-0"



6 TYPICAL WALL FINISHES  
1/4" = 1'-0"



1 ENLARGED FLOORPLAN — BUILDING S  
1/4" = 1'-0"

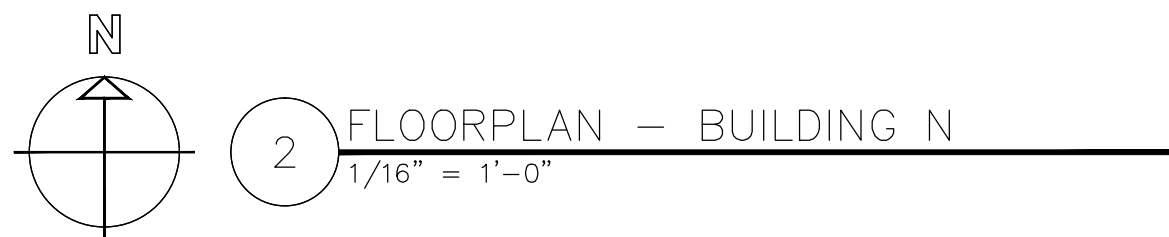
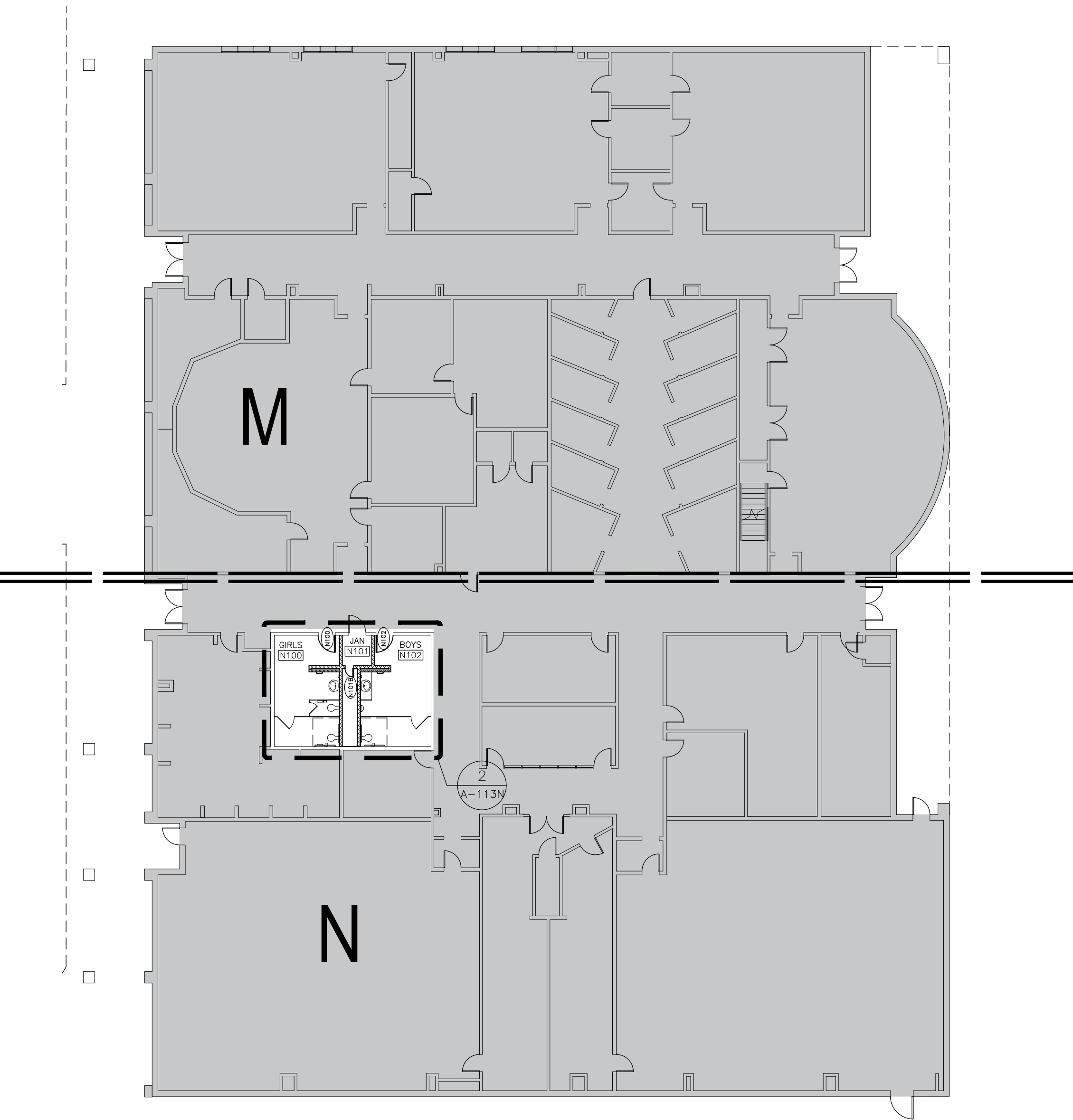


May 28, 2019 - 2:18pm User: cquezada  
F:\G&A Projects\19.04 PSJA ECHS Restroom Renov\19.04 CAD\19.04-A100 RR floorplan.dwg

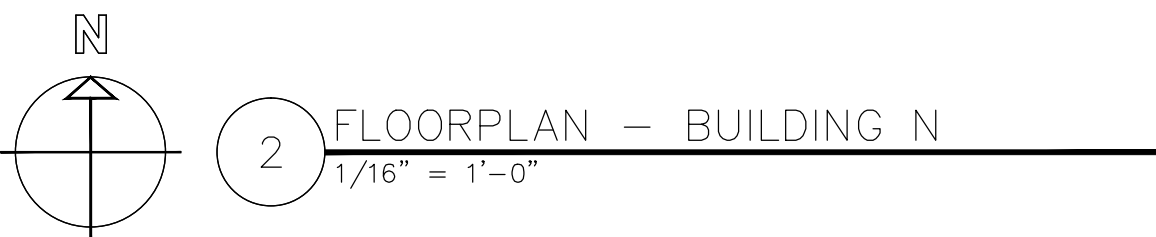
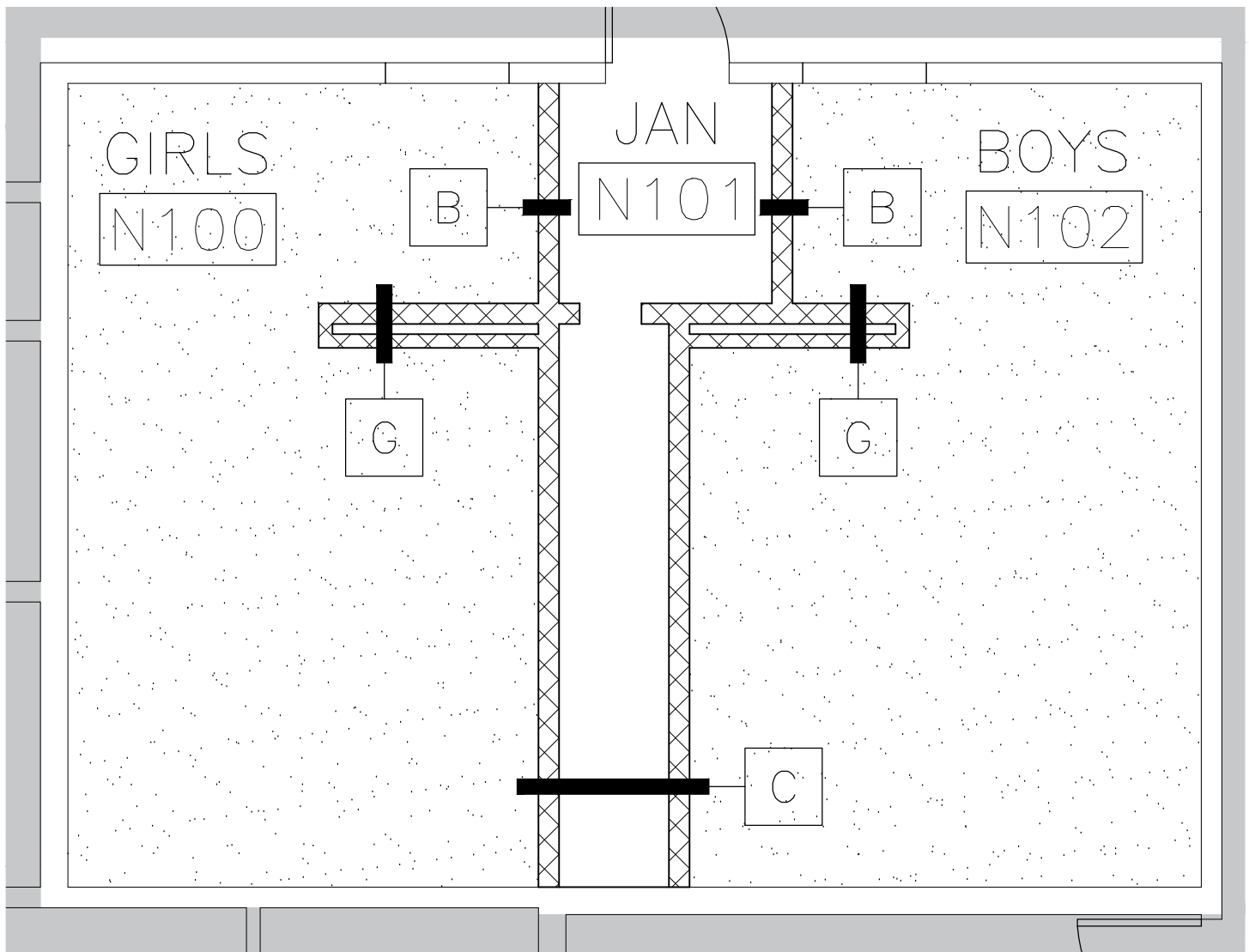
GENERAL CONSTRUCTION NOTES						
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DOOR SCHEDULE						
DOOR SCHEDULE	DOOR			FRAME		REMARKS
	WIDTH	HEIGHT	TYPE	MATERIAL	TYPE MATERIAL	
N100	3'-0"	7'-0"	FL	WD	A HM	FIELD VERIFY EXISTING OPENING
N101B	1'-6"	7'-0"	FL	WD	A HM	
N102	3'-0"	7'-0"	FL	WD	A HM	FIELD VERIFY EXISTING OPENING

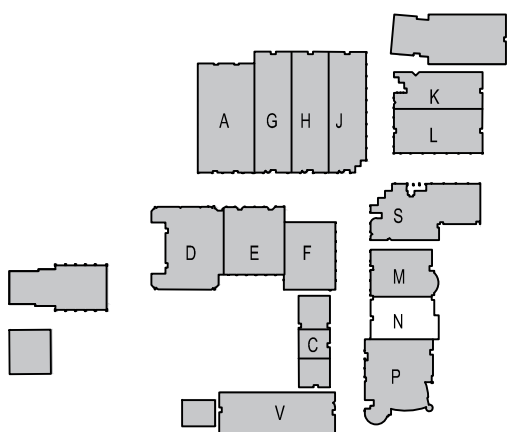
ROOM FINISH SCHEDULE										
NUMBER	NAME	FLOOR	BASE	NORTH WALL	SOUTH WALL	EAST WALL	WEST WALL	CEILING	CLG HT.	NOTES
N100	GIRLS	TILE: UNITY ASH GREY	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	GYP. PTD.	9'-0"	
N101	JANITOR	SEALED CONCRETE	NONE	PT	PT	PT	PT	EXP. STRUC		PAINT EXPOSED STRUCTURE & DECK
N102	BOYS	TILE: UNITY ASH GREY	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	GYP. PTD.	9'-0"	



REFLECTED CEILING LEGEND	
	PAINTED GYP. BOARD
	EXPOSED STRUCTURE, PAINTED
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PSJA ISD  
NORTH ECHS  
& COLLEGE  
AND  
UNIVERSITY  
CAMPUS  
STUDENT  
RESTROOM  
RENOVATIONS



KEYPLAN

Project Number: 19.04  
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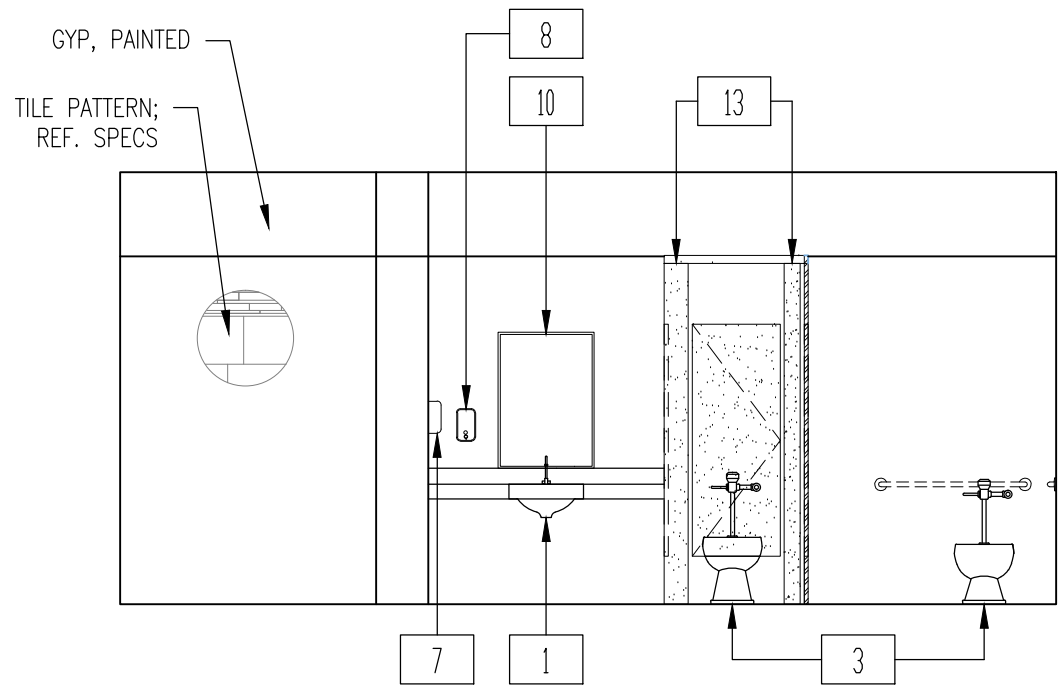
Revisions:  
1 - ADD 1 - 5/24/19

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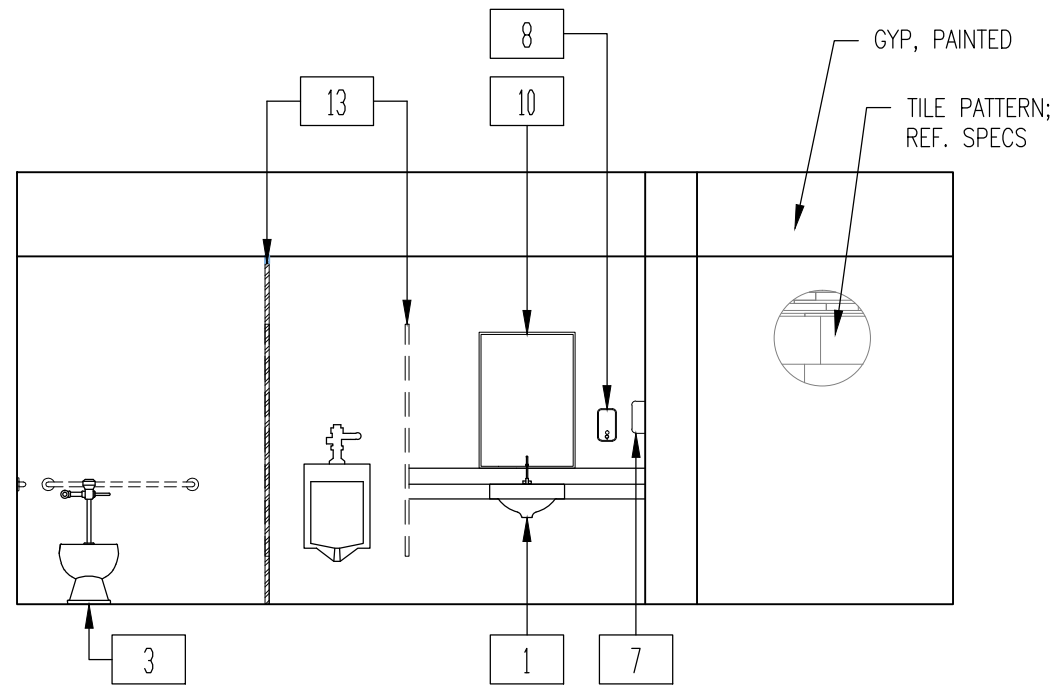
BUILDING N  
FLOORPLAN &  
REFL. CLG. PLN.

ADD. 2  
A-112-N

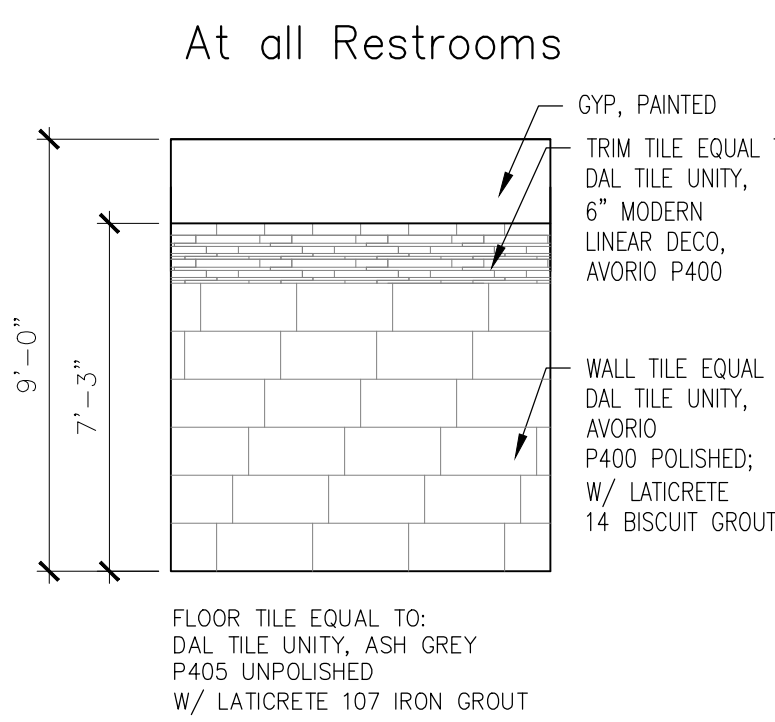
	FIXTURE MOUNTING HEIGHT SCHEDULE		ADULTS
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		ACCESSIBLE	
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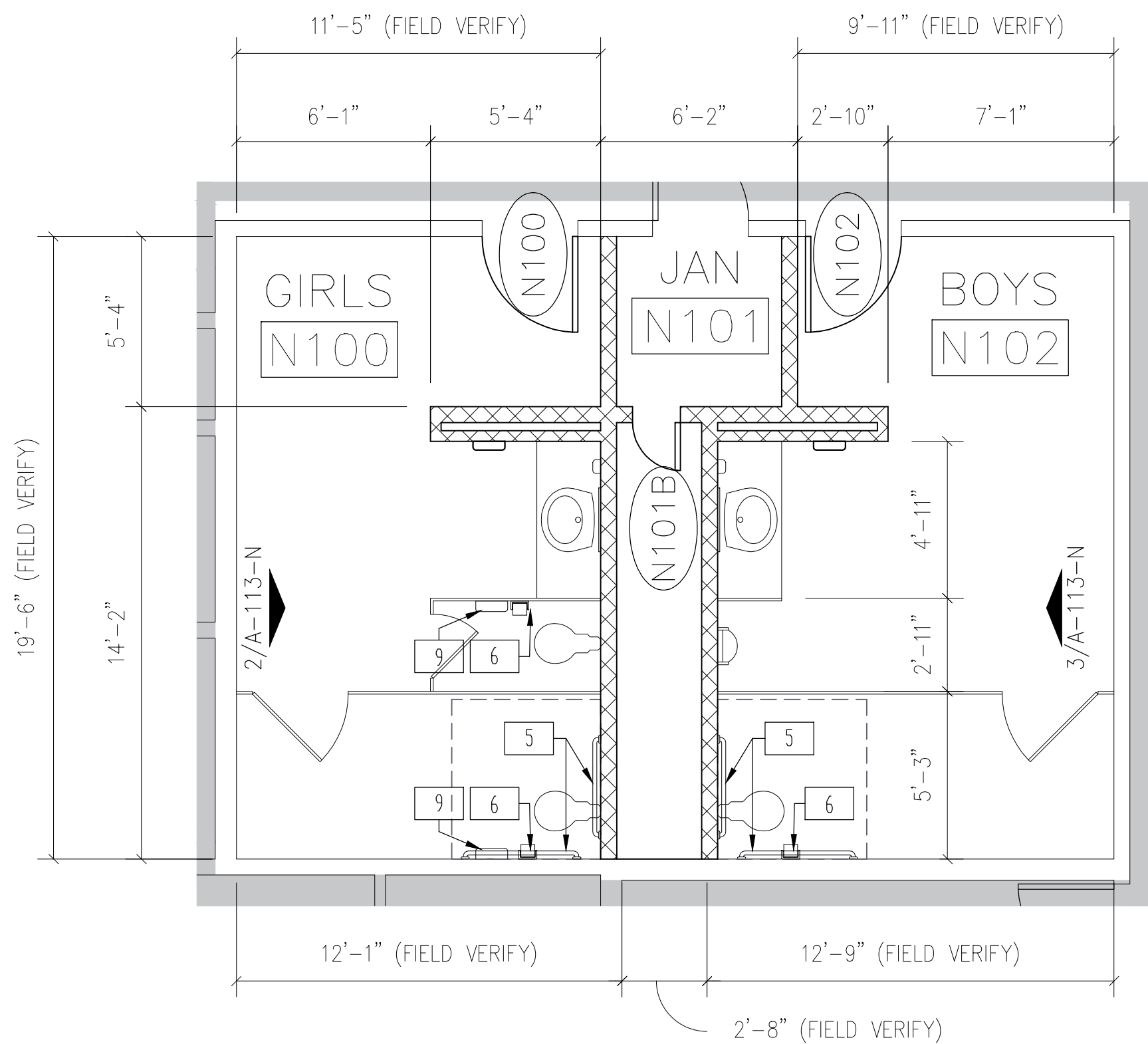
2 INTERIOR ELEVATION - GIRLS N100  
1/4" = 1'-0"



3 INTERIOR ELEVATION - BOYS N102  
1/4" = 1'-0"



4 TYPICAL WALL FINISHES  
1/4" = 1'-0"



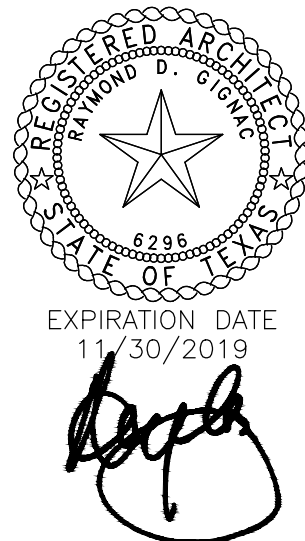
1 ENLARGED FLOORPLAN - BUILDING N  
1/4" = 1'-0"

Consultants:

CIVIL:  
MELDEN & HUNT

STRUCTURAL:  
GREEN, RUBIANO &  
ASSOCIATES INC.

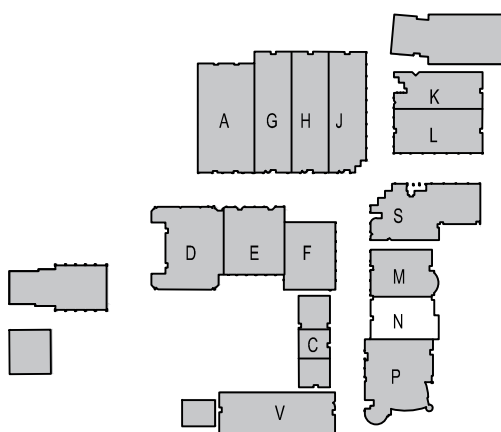
MEP:  
DBR ENGINEERING



SIGNED: 05/10/2019



PSJA ISD  
NORTH ECHS  
& COLLEGE  
AND  
UNIVERSITY  
CAMPUS  
STUDENT  
RESTROOM  
RENOVATIONS



KEYPLAN

Project Number: 19.04  
Drawing Date: MAY 10, 2019  
Drawn: CQ  
Checked: JM  
Scale: VARIES  
ACAD File: DEMO PLAN

Revisions:

1 - ADD 1 - 5/24/19

Sheet Title:

BUILDING N  
INT ELEV. &  
ENLGR. FLRPLN.

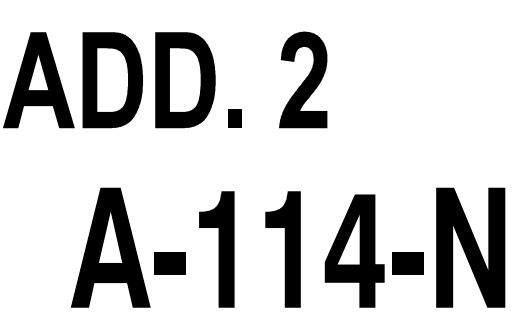
ADD. 2  
A-113-N



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NUMBER	NAME	FLOOR	BASE	NORTH WALL	SOUTH WALL	EAST WALL	WEST WALL	CEILING	CLG HT.	NOTES
P100	VESTIBULE	SEALED CONCRETE	NDNE	PT	PT	PT	PT	EXP. STRUC		PAINTE EXPOSED STRUCTURE & DECK
P101	GIRLS	TILE: UNITY ASH GREY	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	GYP. PTB.	9'-0"	
P102	BOYS	TILE: UNITY ASH GREY	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	GYP. PTB.	9'-0"	
P103	JANITOR	SEALED CONCRETE	NDNE	PT	PT	PT	PT	EXP. STRUC		PAINTE EXPOSED STRUCTURE & DECK

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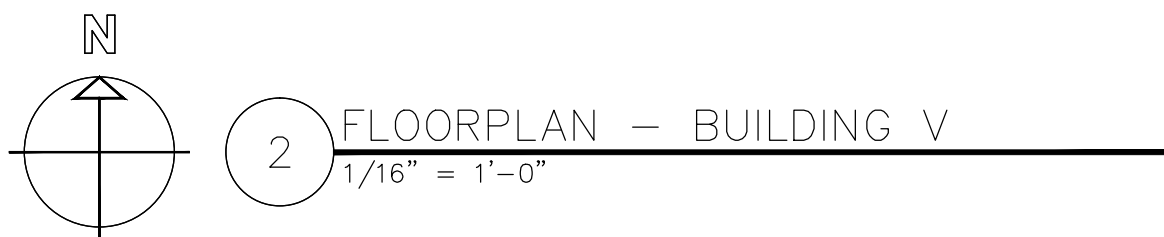
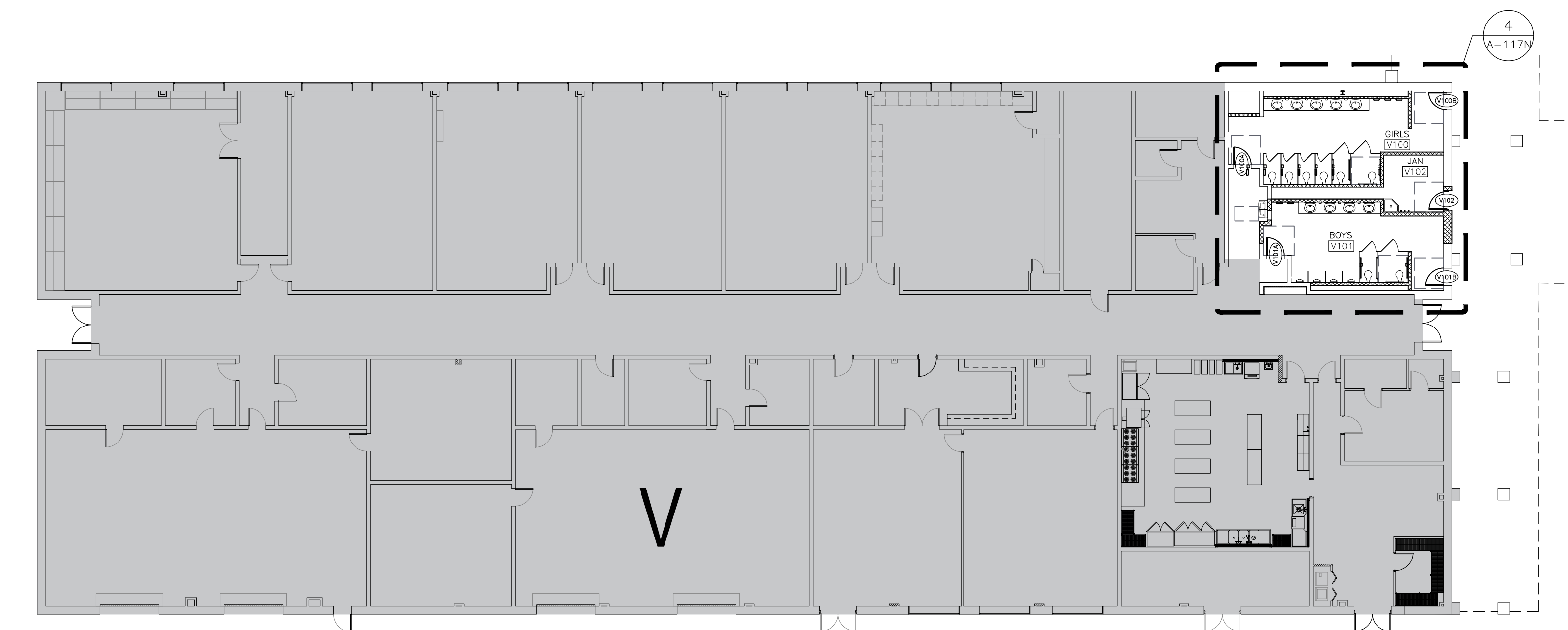


May 28, 2019 - 2:21pm User: cquezada  
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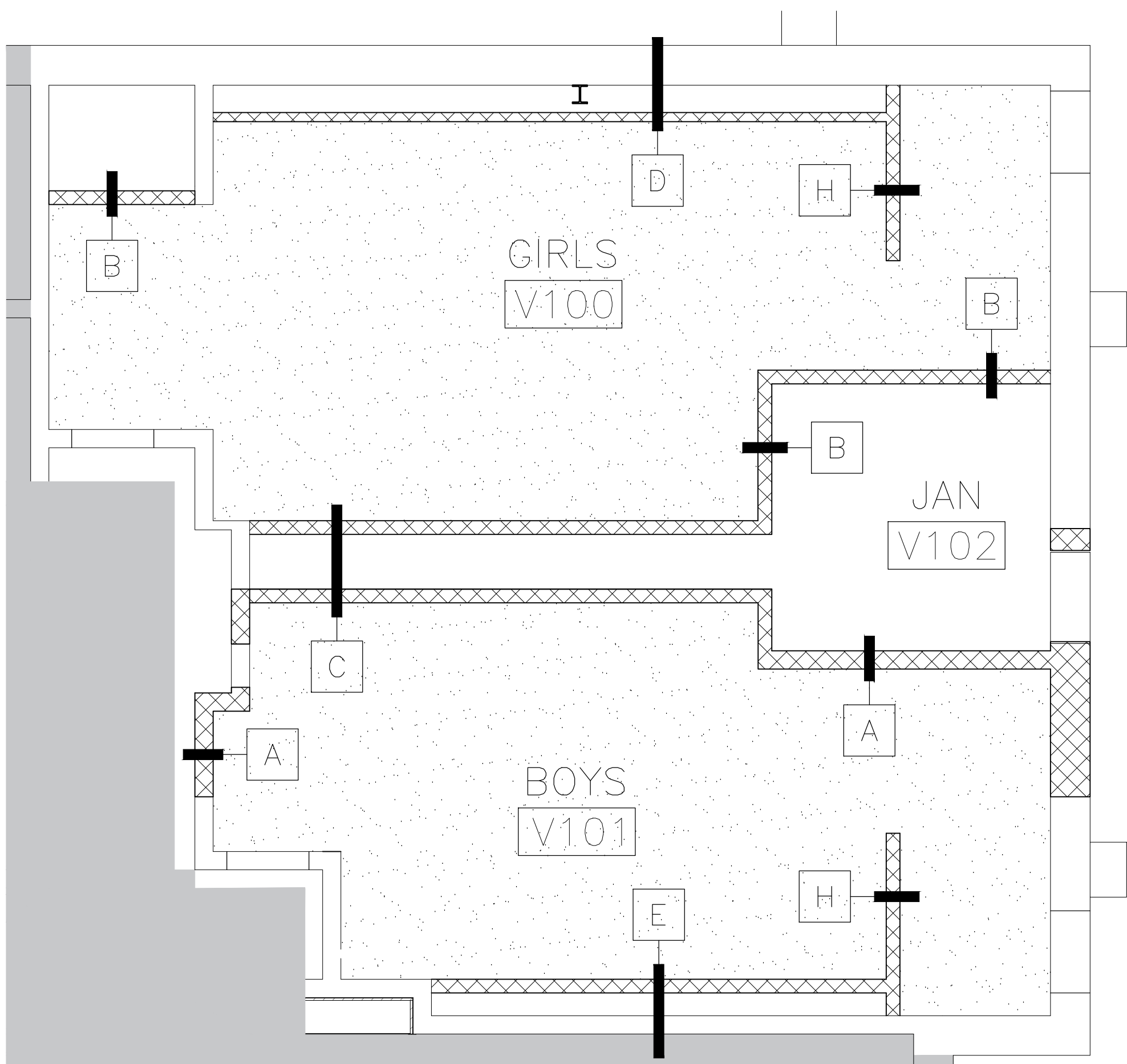
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V100B	3'-0"	7'-0"	FL	HM	A	HM	FIELD VERIFY EXISTING OPENING
V101A	3'-0"	7'-0"	FL	WD	A	HM	
V101B	3'-0"	7'-0"	FL	HM	A	HM	FIELD VERIFY EXISTING OPENING
V102	3'-0"	7'-0"	FL	HM	A	HM	

ROOM FINISH SCHEDULE										
NUMBER	NAME	FLOOR	BASE	NORTH WALL	SOUTH WALL	EAST WALL	WEST WALL	CEILING	CLG HT.	NOTES
V100	GIRLS	TILE: UNITY ASH GREY	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	GYP. PTD.	9'-0"	
V101	BOYS	TILE: UNITY ASH GREY	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	GYP. PTD.	9'-0"	
V102	JANITOR	SEALED CONCRETE	NONE	PT	PT	PT	PT	EXP. STRUC		PAINT EXPOSED STRUCTURE & DECK



REFLECTED CEILING LEGEND	
	PAINTED GYP. BOARD
	EXPOSED STRUCTURE, PAINTED
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**MEP:**  
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SIGNED: 05/10/2019



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KEYPLAN

Project Number: 19.04  
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ACAD File: DEMO PLAN

Revisions:

1 - ADD 1 - 5/24/19

Sheet Title:

BUILDING V  
FLOORPLAN &  
REFL. CLG. PLN.

ADD. 2

A-116-N







May 28, 2019 - 2:22pm User: cquezada  
F:\G&A Projects\1904 PSJA ECHS Restroom Renov\19.04 CAD\19.04-A100 RR floorplan.dwg

GENERAL CONSTRUCTION NOTES

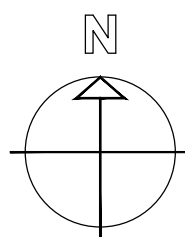
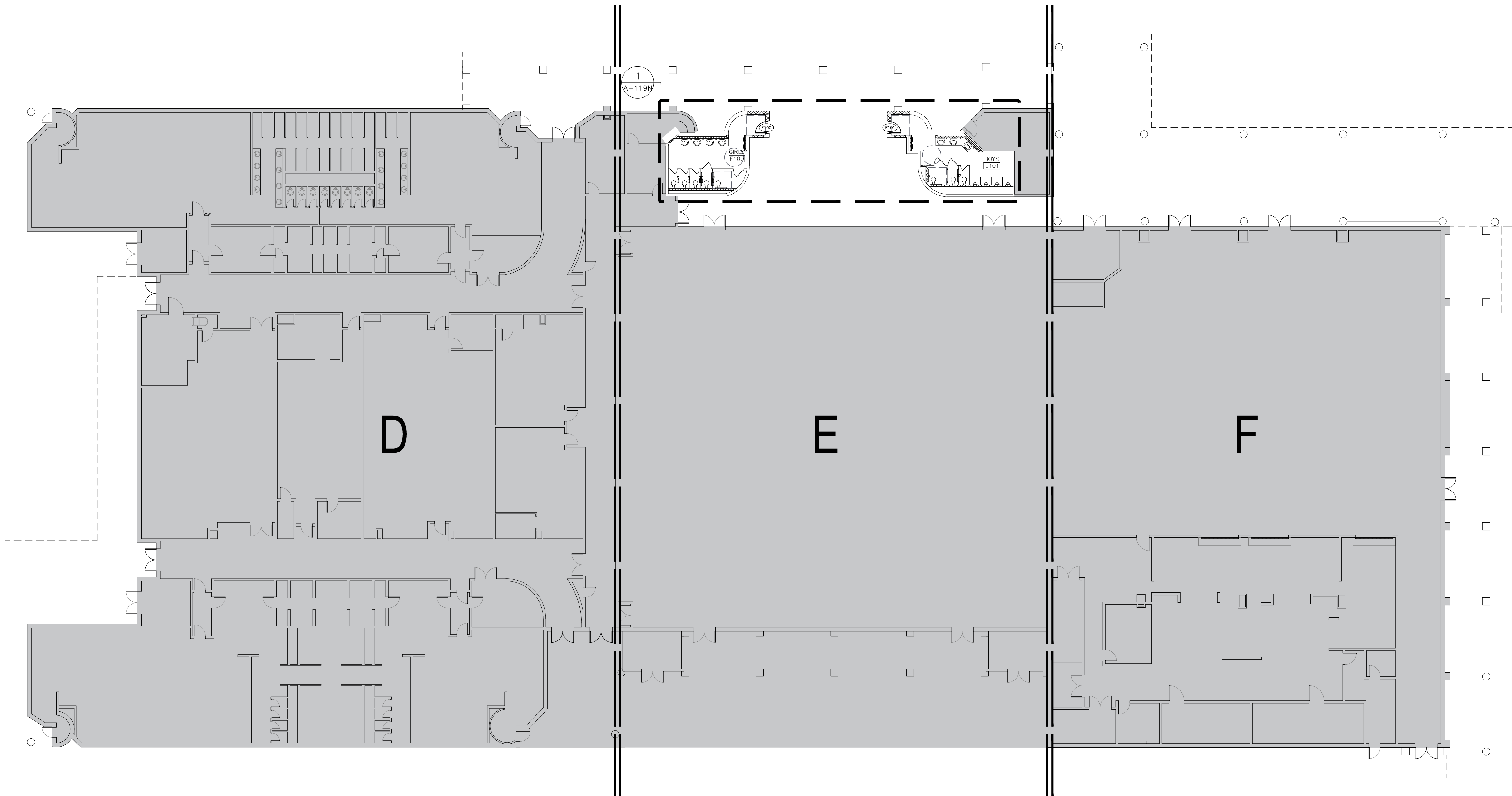
- DEMOLITION AND PROPOSED WORK WILL HAVE TO BE COORDINATED WITH THE OWNER TO MINIMIZE DISRUPTIONS TO THE CAMPUS, WHICH MAY BE IN USE.
- ANY EXISTING WALLS TO REMAIN THAT REQUIRE REPAIR AFTER DEMOLITION IS COMPLETE, SHALL BE OBSERVED BY THE DESIGN TEAM AND OWNER PRIOR TO REPAIR. COORDINATION WILL BE REQUIRED.
- ANY OPENINGS IN EXISTING WALLS SCHEDULED TO BE INFILLED SHALL HAVE THE SAME MATERIAL AND FINISH AS THAT OF THE EXISTING WALL. ALL INFILLED OPENINGS SHALL BE FLUSH WITH EXISTING WALL SURFACES AND PAINTED.

DOOR SCHEDULE

DOOR SCHEDULE	DOOR				FRAME		REMARKS
	WIDTH	HEIGHT	TYPE	MATERIAL	TYPE	MATERIAL	
E100	3'-0"	7'-0"	FL	HM	A	HM	
E101	3'-0"	7'-0"	FL	HM	A	HM	

ROOM FINISH SCHEDULE

NUMBER	NAME	FLOOR	BASE	NORTH WALL	SOUTH WALL	EAST WALL	WEST WALL	CEILING	CLG HT.	NOTES
E100	GIRLS	TILE: UNITY ASH GREY	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	GYP. PTD.	9'-0"	
E101	BOYS	TILE: UNITY ASH GREY	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	GYP. PTD.	9'-0"	



1 FLOORPLAN -- BUILDING E  
1/16" = 1'-0"

Consultants:

CIVIL:  
MELDEN & HUNT

STRUCTURAL:  
GREEN, RUBIANO &  
ASSOCIATES INC.

MEP:  
DBR ENGINEERING



SIGNED: 05/10/2019

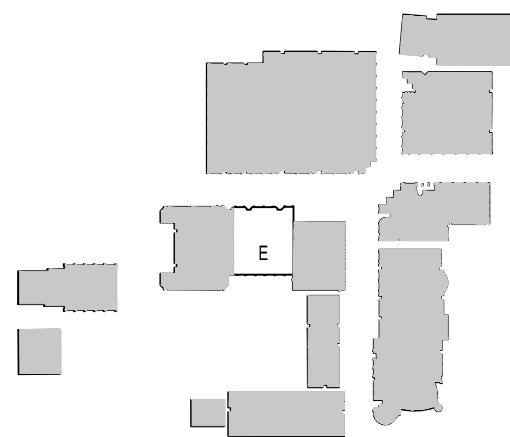


PSJA ISD

NORTH ECHS  
& COLLEGE

AND  
UNIVERSITY  
CAMPUS

STUDENT  
RESTROOM  
RENOVATIONS



KEYPLAN

Project Number: 19.04  
Drawing Date: MAY 10, 2019  
Drawn: CQ  
Checked: JM  
Scale: VARIES  
ACAD File: DEMO PLAN

Revisions:

1 - ADD 1 - 5/24/19

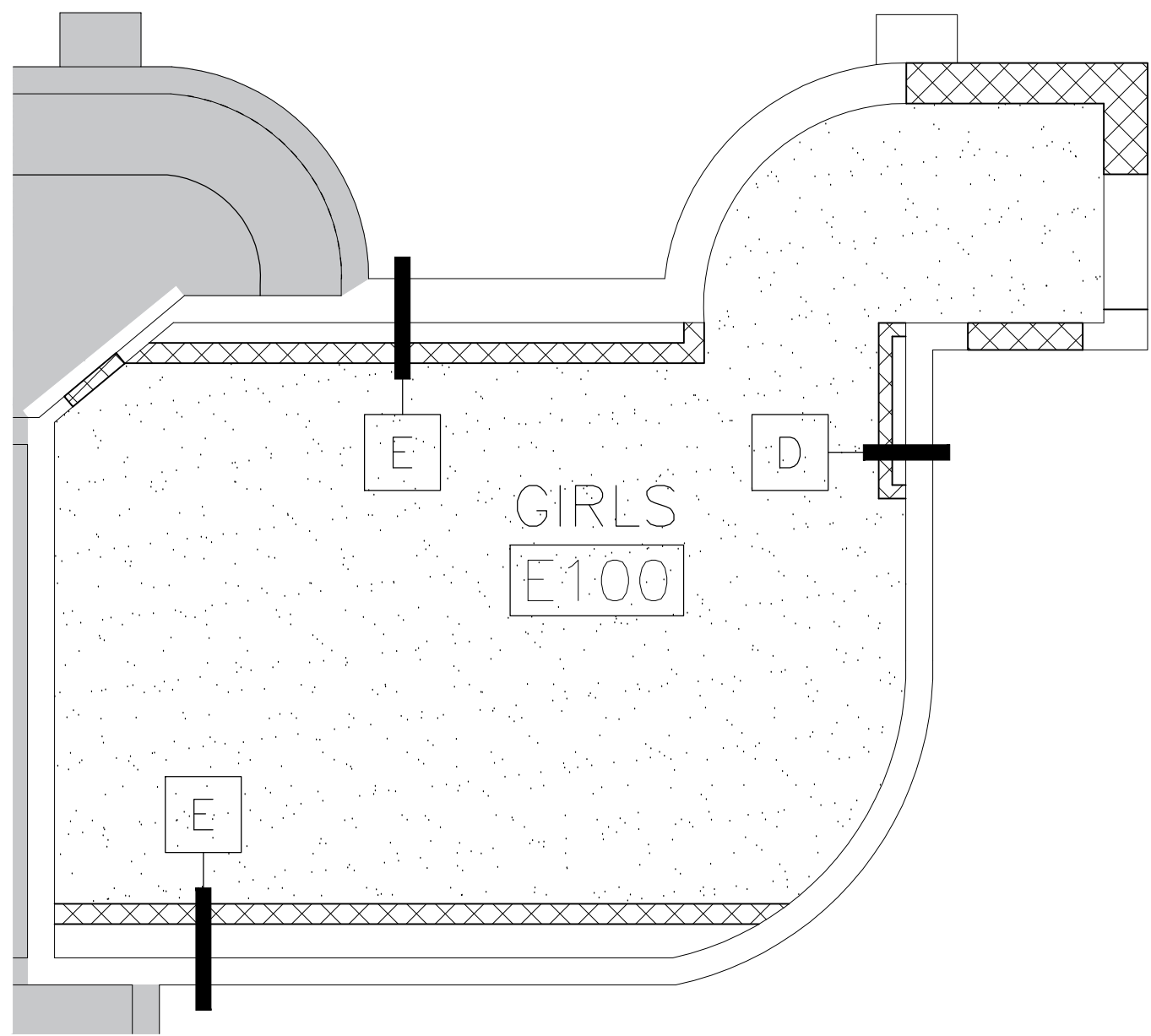
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BUILDING E  
FLOORPLAN

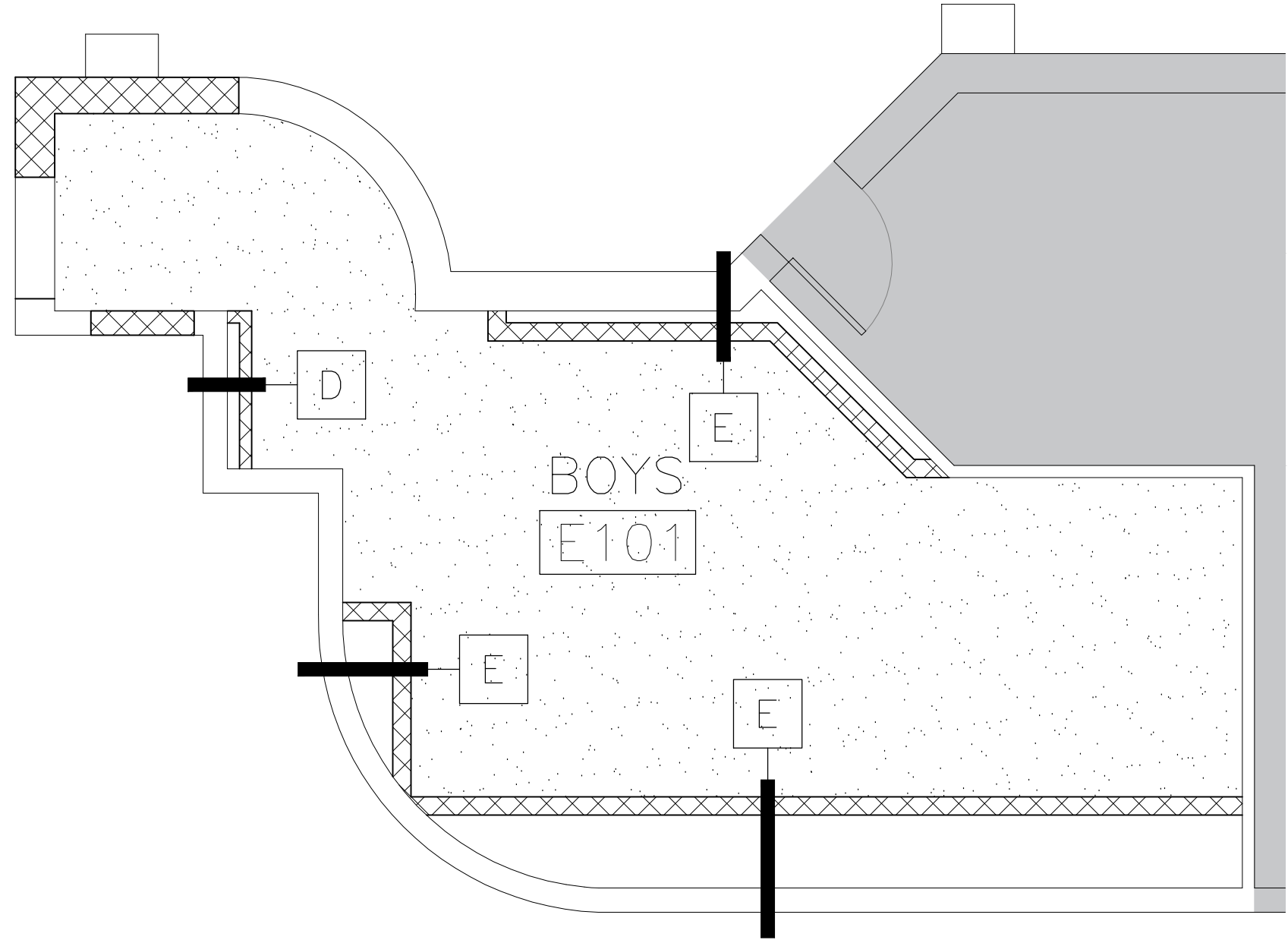
ADD. 2

A-118-N

May 28, 2019 - 2:23pm User: cquezada P:\G&A Projects\1904 PSJA ECHS Restroom Renovation\19.04 CAD\19.04-A100 RR floorplan.dwg



2 REFLECTED CEILING PLAN — BUILDING E  
1/4" = 1'-0"

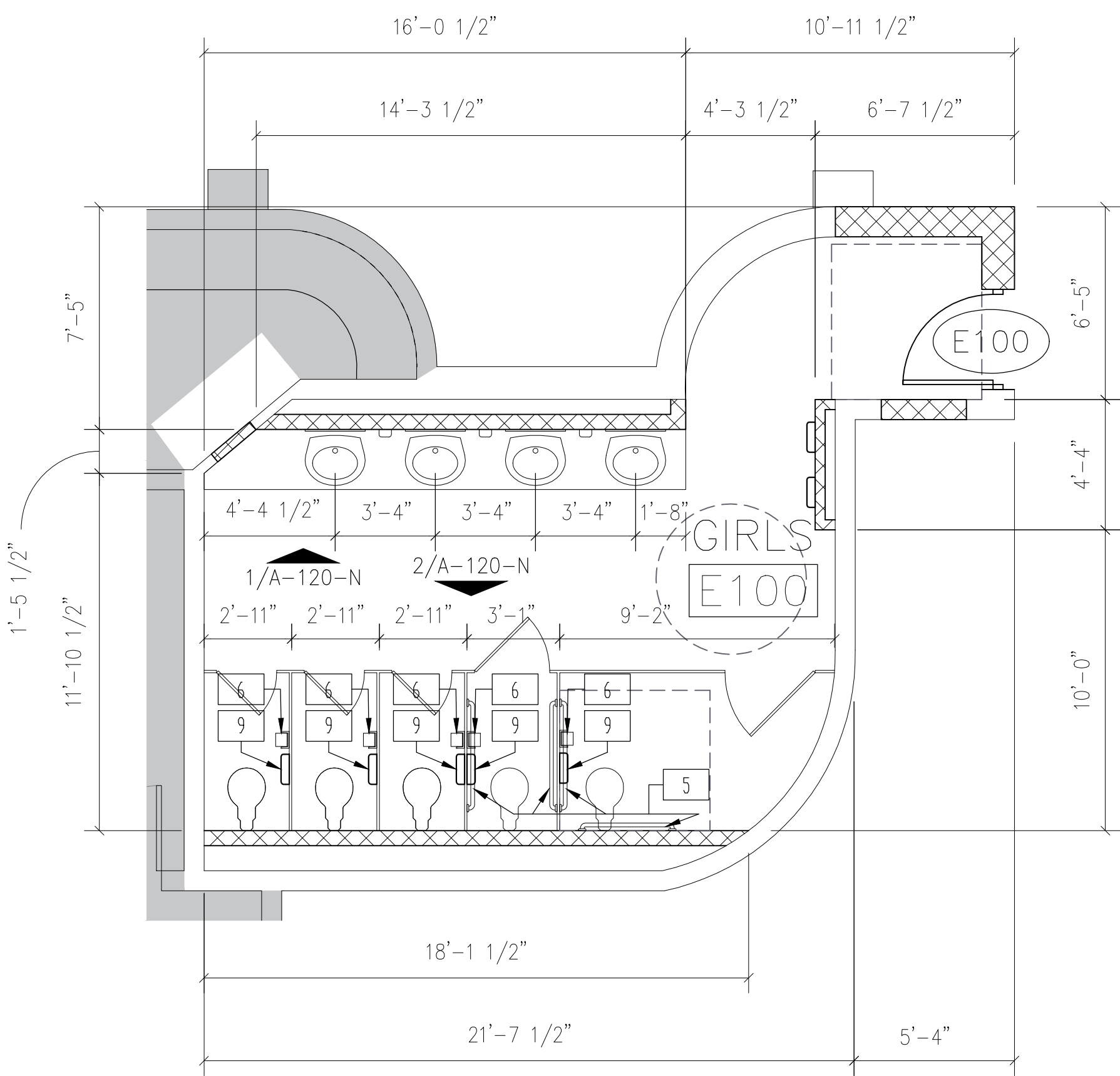


#### REFLECTED CEILING LEGEND

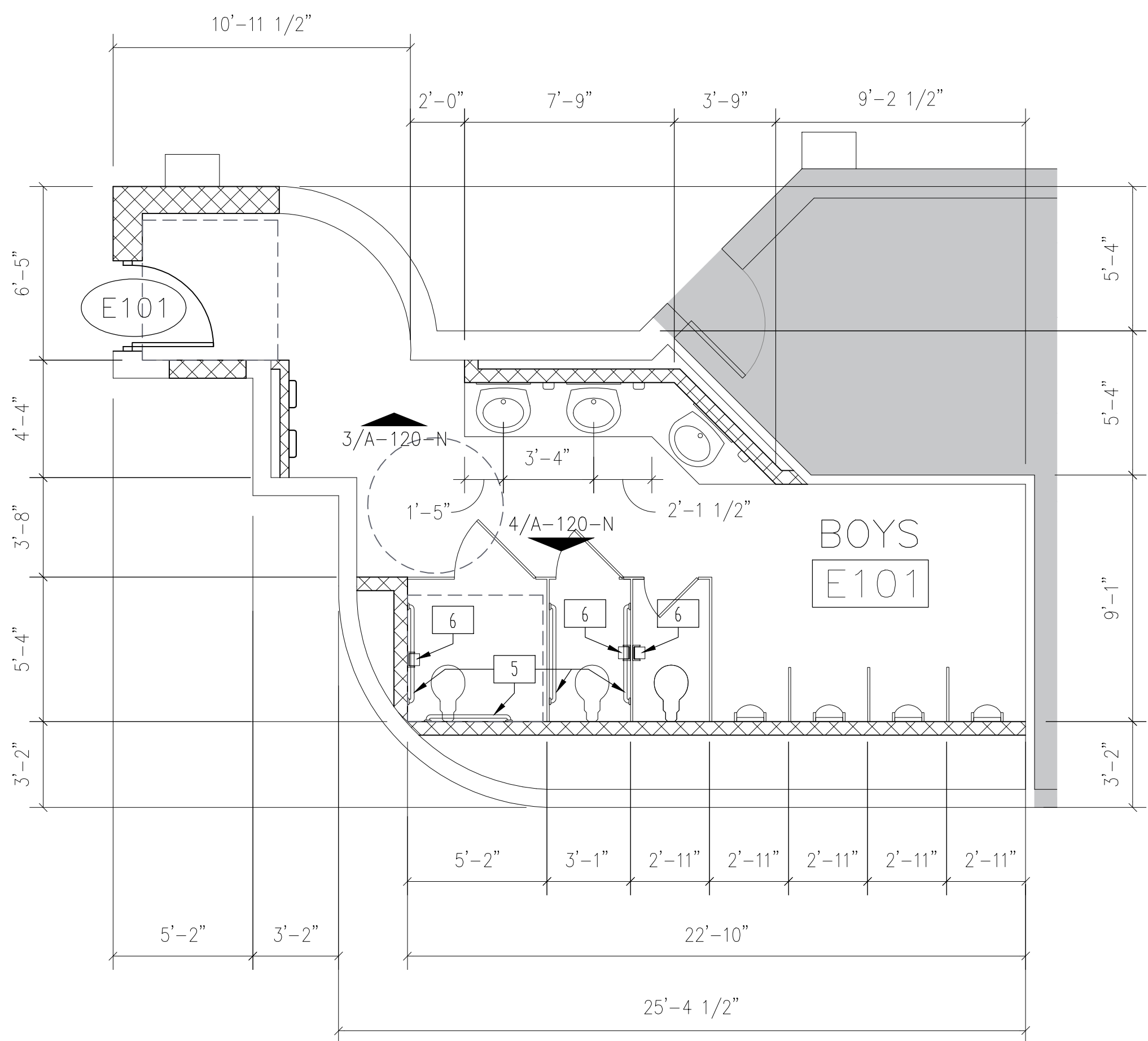
- PAINTED GYP. BOARD
- EXPOSED STRUCTURE, PAINTED
- THIS AREA NOT IN SCOPE

#### REFLECTED CEILING NOTES:

- REFER TO MEP DRAWINGS FOR CEILING MOUNTED ITEMS.
- FIELD VERIFICATION OF EXISTING STRUCTURE AND COORDINATION WITH MEP DURING SUBMITTAL PROCESS SHALL BE REQUIRED IN ORDER TO ACHIEVE MAXIMUM CEILING HEIGHTS.



1 ENLARGED FLOORPLAN — BUILDING E  
1/4" = 1'-0"



#### FIXTURE MOUNTING HEIGHT SCHEDULE

\* REFER TO ADA GUIDELINES ON SHEET G-102.

			ADULTS
1	1. LAVATORIES/SINK (MEASURED FROM FLOOR TO RIM)	STANDARD	32"
		ACCESSIBLE	34" MAX (29" MIN. KNEESPACE)
2	2. URINALS (MEASURED FROM FLOOR TO RIM)	STANDARD	16" MAX
		ACCESSIBLE	17" MAX
3	3. WATER CLOSETS (MEASURED FROM FLOOR TO TOP OF SEAT)	STANDARD	15"
		ACCESSIBLE	17" TO 19"
4	4. DRINKING FOUNTAINS AND EWC's (MEASURED FROM FLOOR TO SPOUT OUTLET)	STANDARD	42"
		ACCESSIBLE	36" MAX (27" MIN. KNEESPACE)
5	5. GRAB BARS (MEASURED FROM FLOOR TO CENTERLINE OF BAR - 36" LONG @ REAR WALL & 42" LONG @ SIDE WALL OR 90 DEGREE CONT. GRAB BAR WHERE INDICATED)	STANDARD	33" TO 36" TO TOP OF GRAB BAR
		ACCESSIBLE	33" TO 36" TO TOP OF GRAB BAR
6	6. TOILET TISSUE DISPENSER (MEASURED FROM FLOOR TO CENTERLINE OF ROLL)	STANDARD	20"
		ACCESSIBLE	19" MIN
7	7. ELECTRIC HAND DRYER (MEASURED FROM FLOOR TO CENTER OF CONTROL)	STANDARD	48"
		ACCESSIBLE	45" MAX
8	8. SOAP DISPENSER (MEASURED FROM FLOOR TO CENTERLINE OF PUSH BUTTON)	STANDARD	38"
		ACCESSIBLE	38"
9	9. SANITARY NAPKIN DISPOSAL UNIT (MEASURED FROM FLOOR TO TOP OF UNIT) (ONLY IN ROOMS LABELED WOMEN & GIRLS)	STANDARD	40"
		ACCESSIBLE	
10	10. MIRRORS (1 MIRROR PER LAVATORY (NOT NOTED FOR CLARITY). MEASURED FROM FLOOR TO BOTTOM OF REFLECTING SURFACE)	STANDARD	
		ACCESSIBLE	40" MAX
11	11. MOP BASIN / SERVICE SINK (ONE PER ROOM LABELED CUSTODIAN)		
12	12. MOP HOLDER (ONE PER ROOM LABELED CUSTODIAN)		48" MAX
13	13. TOILET PARTITION / URINAL SCREEN		NOT NOTED FOR CLARITY

#### Consultants:

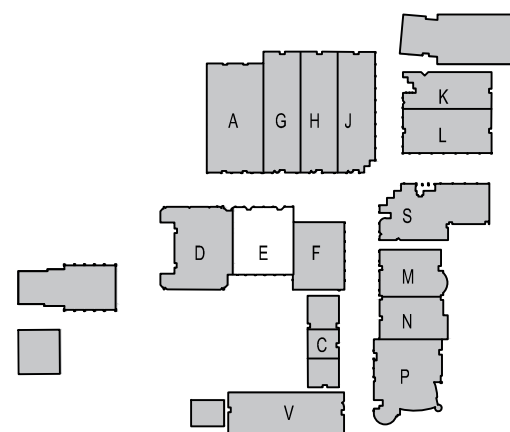
CIVIL:  
MELDEN & HUNT

STRUCTURAL:  
GREEN, RUBIANO &  
ASSOCIATES INC.

MEP:  
DBR ENGINEERING



**PSJA ISD**  
**NORTH ECHS**  
**& COLLEGE**  
**AND**  
**UNIVERSITY**  
**CAMPUS**  
**STUDENT**  
**RESTROOM**  
**RENOVATIONS**



#### KEYPLAN

Project Number: 19.04  
Drawing Date: MAY 10, 2019  
Drawn: CQ  
Checked: JM  
Scale: VARIES  
ACAD File: DEMO PLAN

#### Revisions:

1 - ADD 1 - 5/24/19

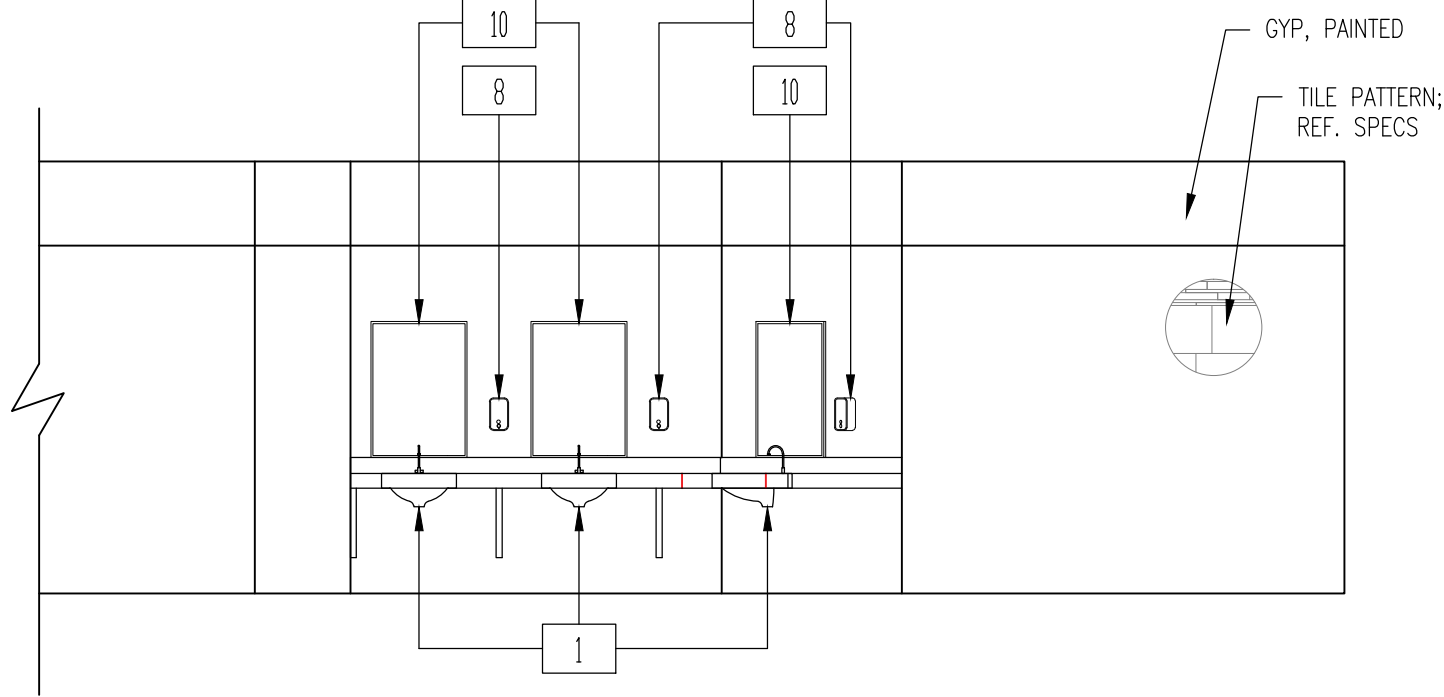
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**BUILDING E**  
**REFL. CLG. PLN.**  
**& ELRG., FLRPLN.**

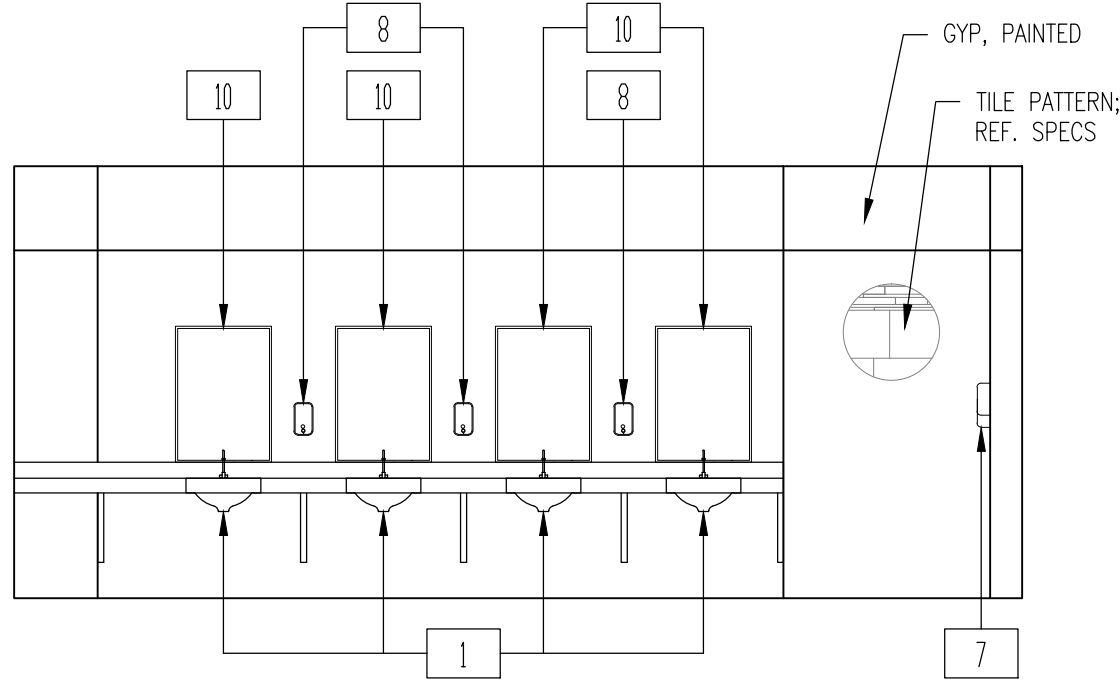
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**A-119-N**



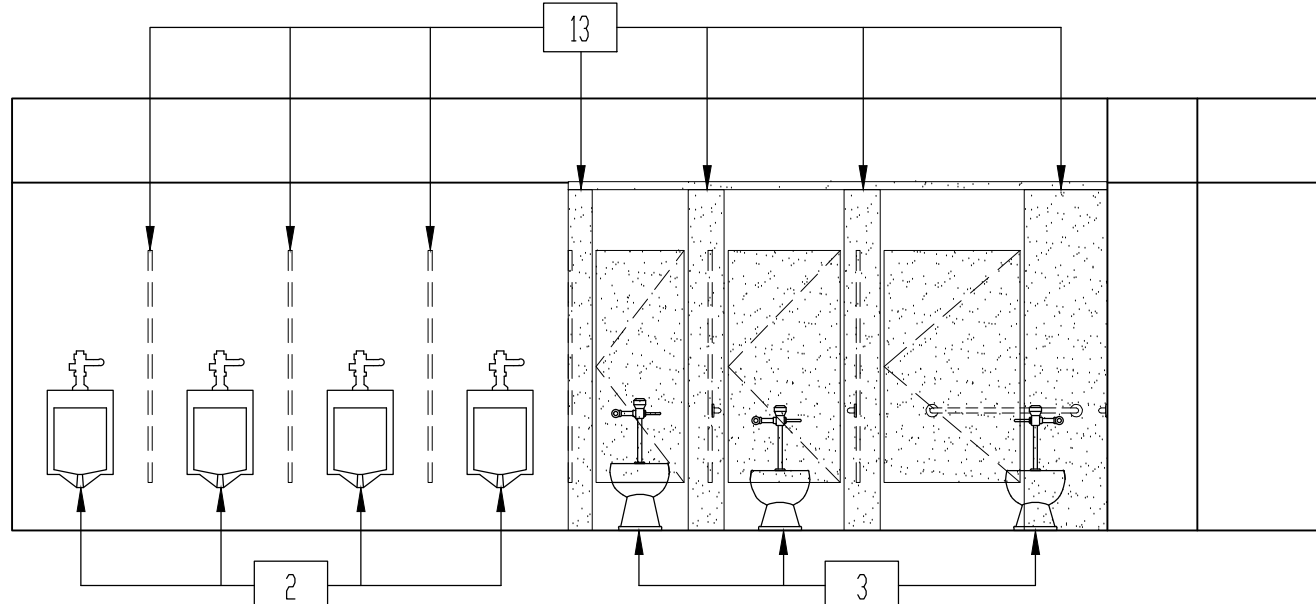
	FIXTURE MOUNTING HEIGHT SCHEDULE		ADULTS
	* REFER TO ADA GUIDELINES ON SHEET G-102.		
1	1. LAVATORIES/SINK (MEASURED FROM FLOOR TO RIM)	STANDARD	32"
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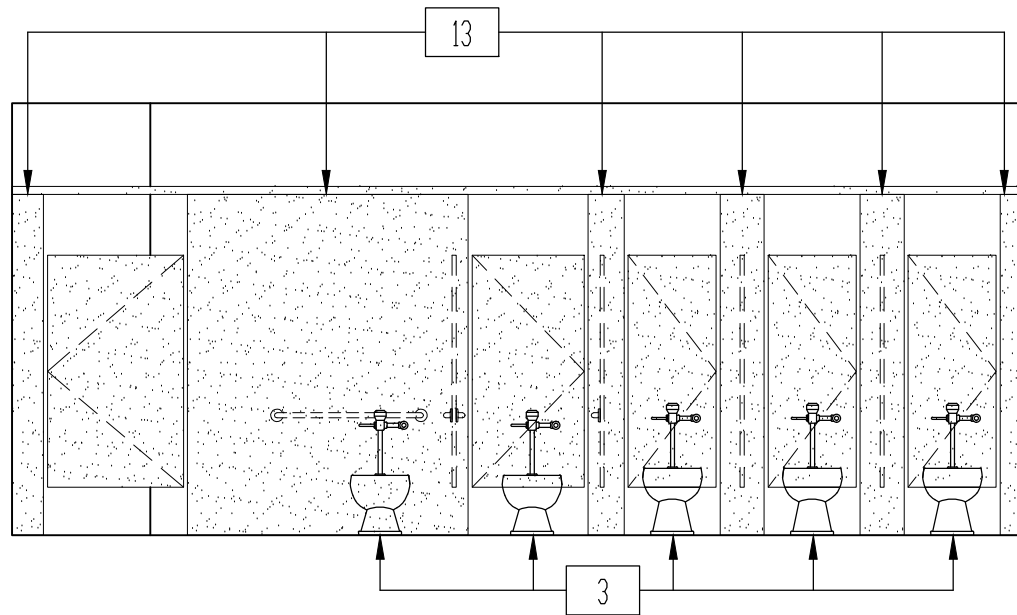
3 INTERIOR ELEVATION — BOYS E101  
1/4" = 1'-0"



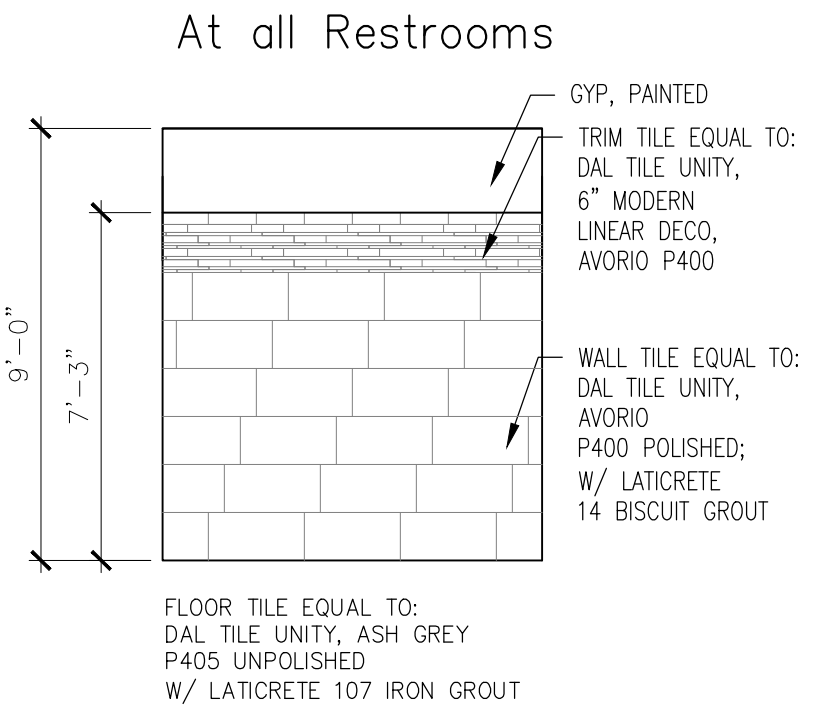
1 INTERIOR ELEVATION — GIRLS E100  
1/4" = 1'-0"



4 INTERIOR ELEVATION — BOYS E101  
1/4" = 1'-0"



2 INTERIOR ELEVATION — GIRLS E100  
1/4" = 1'-0"



5 TYPICAL WALL FINISHES  
1/4" = 1'-0"

Consultants:

CIVIL:

MELDEN & HUNT

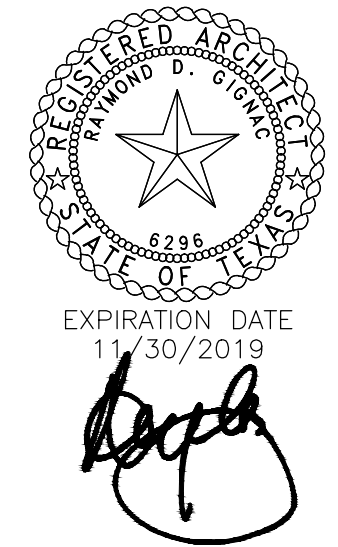
STRUCTURAL:

GREEN, RUBIANO &

ASSOCIATES INC.

MEP:

DBR ENGINEERING



SIGNED: 05/10/2019



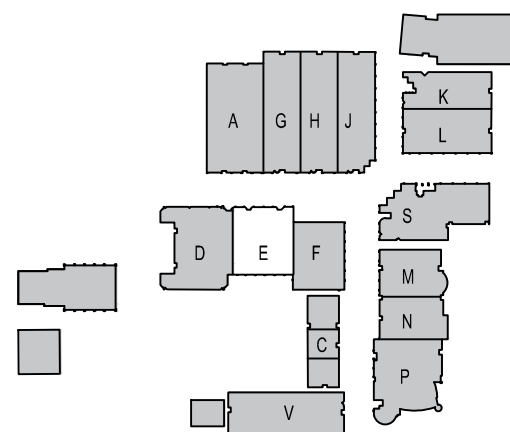
PSJA ISD

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& COLLEGE

AND

UNIVERSITY  
CAMPUS

STUDENT  
RESTROOM  
RENOVATIONS



KEYPLAN

Project Number: 19.04  
Drawing Date: MAY 10, 2019  
Drawn: CQ  
Checked: JM  
Scale: VARIES  
ACAD File: DEMO PLAN

Revisions:

1 - ADD 1 - 5/24/19

Sheet Title:

BUILDING E  
INTERIOR  
ELEVATION

ADD. 2

A-120-N



GENERAL CONSTRUCTION NOTES

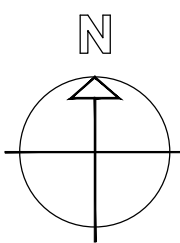
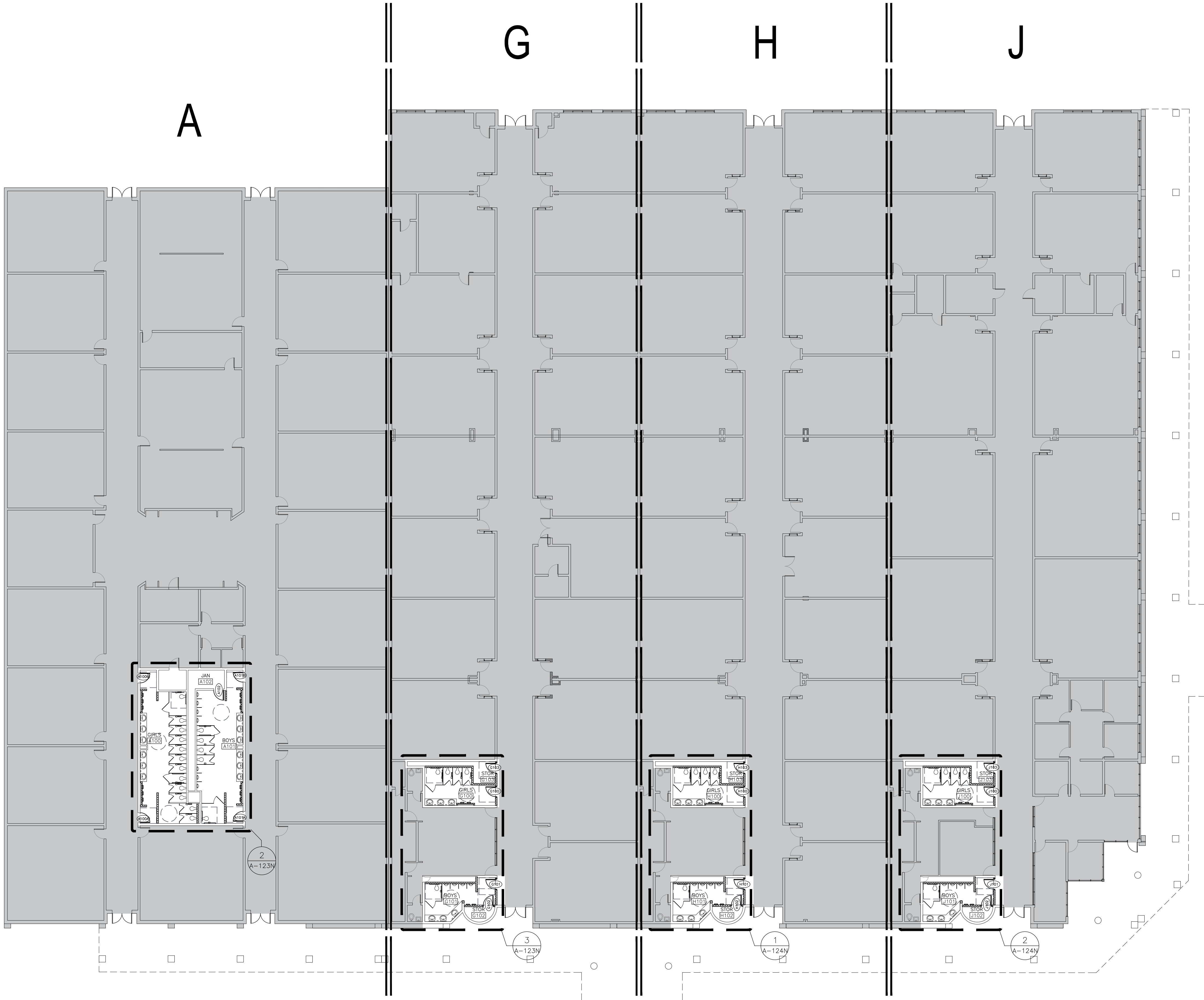
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ROOM FINISH SCHEDULE

NUMBER	NAME	FLOOR	BASE	NORTH WALL	SDUTH WALL	EAST WALL	WEST WALL	CEILING	CLG HT.	NOTES
A100	GIRLS	TILE: UNITY ASH GREY	TILE: UNITY AVORID/PT	TILE: UNITY AVORID/PT	TILE: UNITY AVORID/PT	TILE: UNITY AVORID/PT	TILE: UNITY AVORID/PT	GYP. PTD.	9'-0"	
A101	BOYS	TILE: UNITY ASH GREY	TILE: UNITY AVORID/PT	TILE: UNITY AVORID/PT	TILE: UNITY AVORID/PT	TILE: UNITY AVORID/PT	TILE: UNITY AVORID/PT	GYP. PTD.	9'-0"	
A102	JANITOR	SEALED CONCRETE	NONE	PT	PT	PT	PT	EXP. STRUC		PAINT EXPOSED STRUCTURE & DECK
G100	GIRLS	TILE: UNITY ASH GREY	TILE: UNITY AVORID/PT	TILE: UNITY AVORID/PT	TILE: UNITY AVORID/PT	TILE: UNITY AVORID/PT	TILE: UNITY AVORID/PT	GYP. PTD.	9'-0"	
G101	BOYS	TILE: UNITY ASH GREY	TILE: UNITY AVORID/PT	TILE: UNITY AVORID/PT	TILE: UNITY AVORID/PT	TILE: UNITY AVORID/PT	TILE: UNITY AVORID/PT	GYP. PTD.	9'-0"	
G102	STORAGE	SEALED CONCRETE	NONE	PT	PT	PT	PT	EXP. STRUC		PAINT EXPOSED STRUCTURE & DECK
G103	STORAGE	SEALED CONCRETE	NONE	PT	PT	PT	PT	EXP. STRUC		PAINT EXPOSED STRUCTURE & DECK
H100	GIRLS	TILE: UNITY ASH GREY	TILE: UNITY AVORID/PT	TILE: UNITY AVORID/PT	TILE: UNITY AVORID/PT	TILE: UNITY AVORID/PT	TILE: UNITY AVORID/PT	GYP. PTD.	9'-0"	
H101	BOYS	TILE: UNITY ASH GREY	TILE: UNITY AVORID/PT	TILE: UNITY AVORID/PT	TILE: UNITY AVORID/PT	TILE: UNITY AVORID/PT	TILE: UNITY AVORID/PT	GYP. PTD.	9'-0"	
H102	STORAGE	SEALED CONCRETE	NONE	PT	PT	PT	PT	EXP. STRUC		PAINT EXPOSED STRUCTURE & DECK
H103	STORAGE	SEALED CONCRETE	NONE	PT	PT	PT	PT	EXP. STRUC		PAINT EXPOSED STRUCTURE & DECK
J100	GIRLS	TILE: UNITY ASH GREY	TILE: UNITY AVORID/PT	TILE: UNITY AVORID/PT	TILE: UNITY AVORID/PT	TILE: UNITY AVORID/PT	TILE: UNITY AVORID/PT	GYP. PTD.	9'-0"	
J101	BOYS	TILE: UNITY ASH GREY	TILE: UNITY AVORID/PT	TILE: UNITY AVORID/PT	TILE: UNITY AVORID/PT	TILE: UNITY AVORID/PT	TILE: UNITY AVORID/PT	GYP. PTD.	9'-0"	
J102	STORAGE	SEALED CONCRETE	NONE	PT	PT	PT	PT	EXP. STRUC		PAINT EXPOSED STRUCTURE & DECK
J103	STORAGE	SEALED CONCRETE	NONE	PT	PT	PT	PT	EXP. STRUC		PAINT EXPOSED STRUCTURE & DECK

DOOR SCHEDULE

DOOR SCHEDULE	DOOR				FRAME		REMARKS
	WIDTH	HEIGHT	TYPE	MATERIAL	TYPE	MATERIAL	
A100A	3'-0"	7'-0"	FL	WD	A	HM	FIELD VERIFY EXISTING OPENING
A100B	3'-0"	7'-0"	FL	WD	A	HM	FIELD VERIFY EXISTING OPENING
A101A	3'-0"	7'-0"	FL	WD	A	HM	FIELD VERIFY EXISTING OPENING
A101B	3'-0"	7'-0"	FL	WD	A	HM	FIELD VERIFY EXISTING OPENING
A102	3'-0"	7'-0"	FL	WD	A	HM	FIELD VERIFY EXISTING OPENING
G100	3'-0"	7'-0"	FL	WD	A	HM	
G101	3'-0"	7'-0"	FL	WD	A	HM	
G102	3'-0"	7'-0"	FL	WD	A	HM	
G103	3'-0"	7'-0"	FL	WD	A	HM	
H100	3'-0"	7'-0"	FL	WD	A	HM	
H101	3'-0"	7'-0"	FL	WD	A	HM	
H102	3'-0"	7'-0"	FL	WD	A	HM	
H103	3'-0"	7'-0"	FL	WD	A	HM	
J100	3'-0"	7'-0"	FL	WD	A	HM	
J101	3'-0"	7'-0"	FL	WD	A	HM	
J102	3'-0"	7'-0"	FL	WD	A	HM	
J103	3'-0"	7'-0"	FL	WD	A	HM	



1 FLOORPLAN - BUILDING A-G-H-J  
1/16" = 1'-0"

Consultants:

CIVIL:  
MELDEN & HUNT

STRUCTURAL:  
GREEN, RUBIANO &  
ASSOCIATES INC.

MEP:  
DBR ENGINEERING



EXPIRATION DATE  
11/30/2019

SIGNED: 05/10/2019

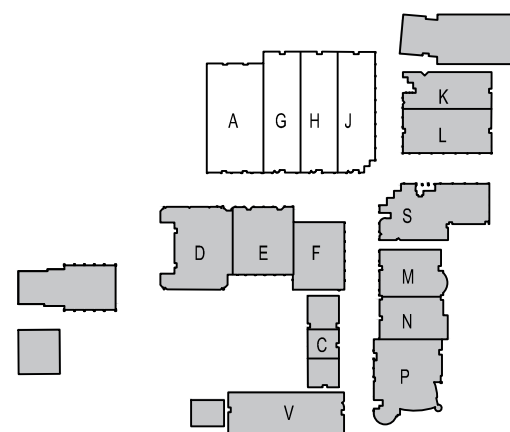


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CAMPUS

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RESTROOM  
RENOVATIONS



KEYPLAN

Project Number: 19.04  
Drawing Date: MAY 10, 2019  
Drawn: CQ  
Checked: JM  
Scale: VARIES  
ACAD File: DEMO PLAN

Revisions:

1 - ADD 1 - 5/24/19

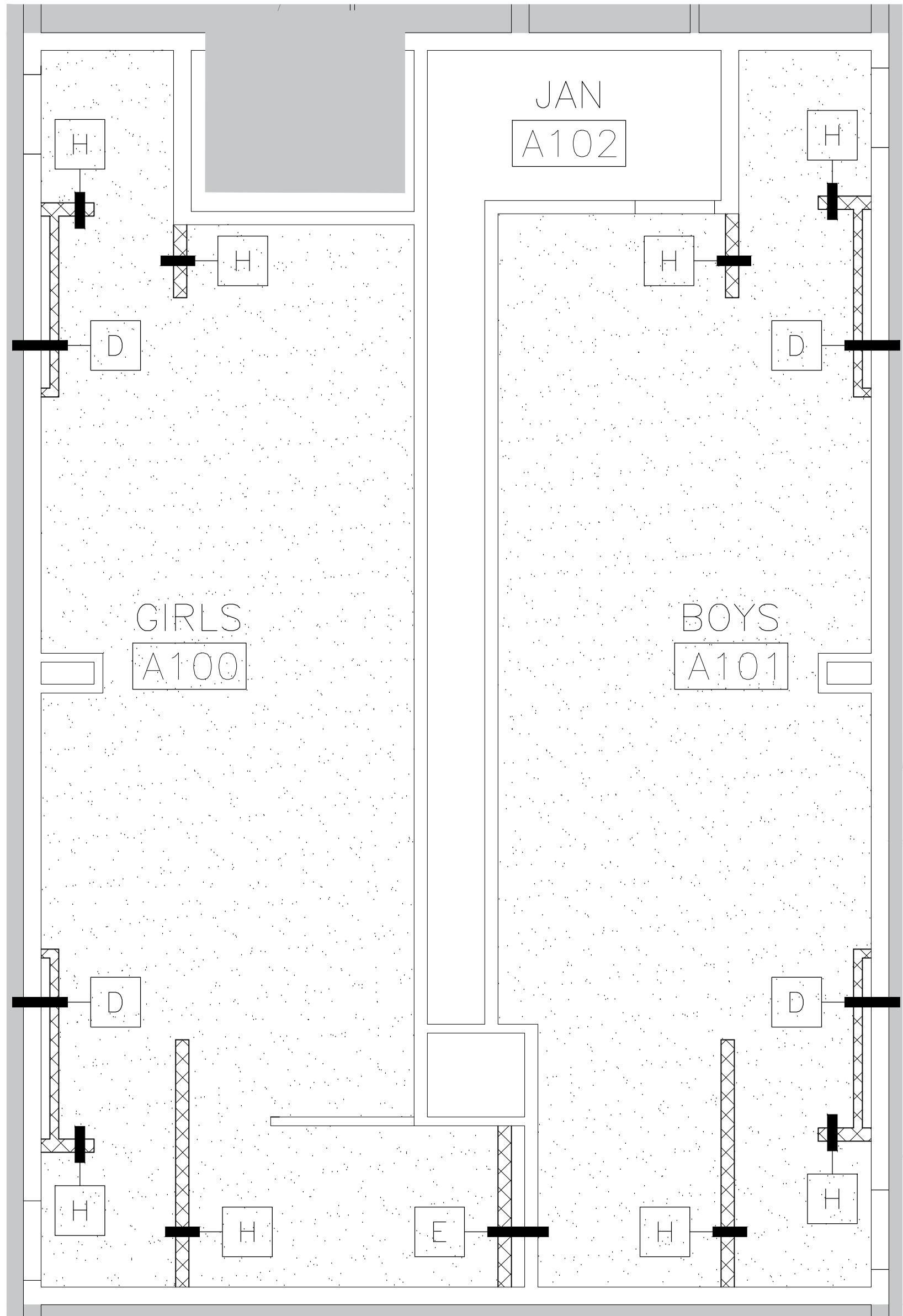
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BLDG A-G-H-J  
FLOORPLAN

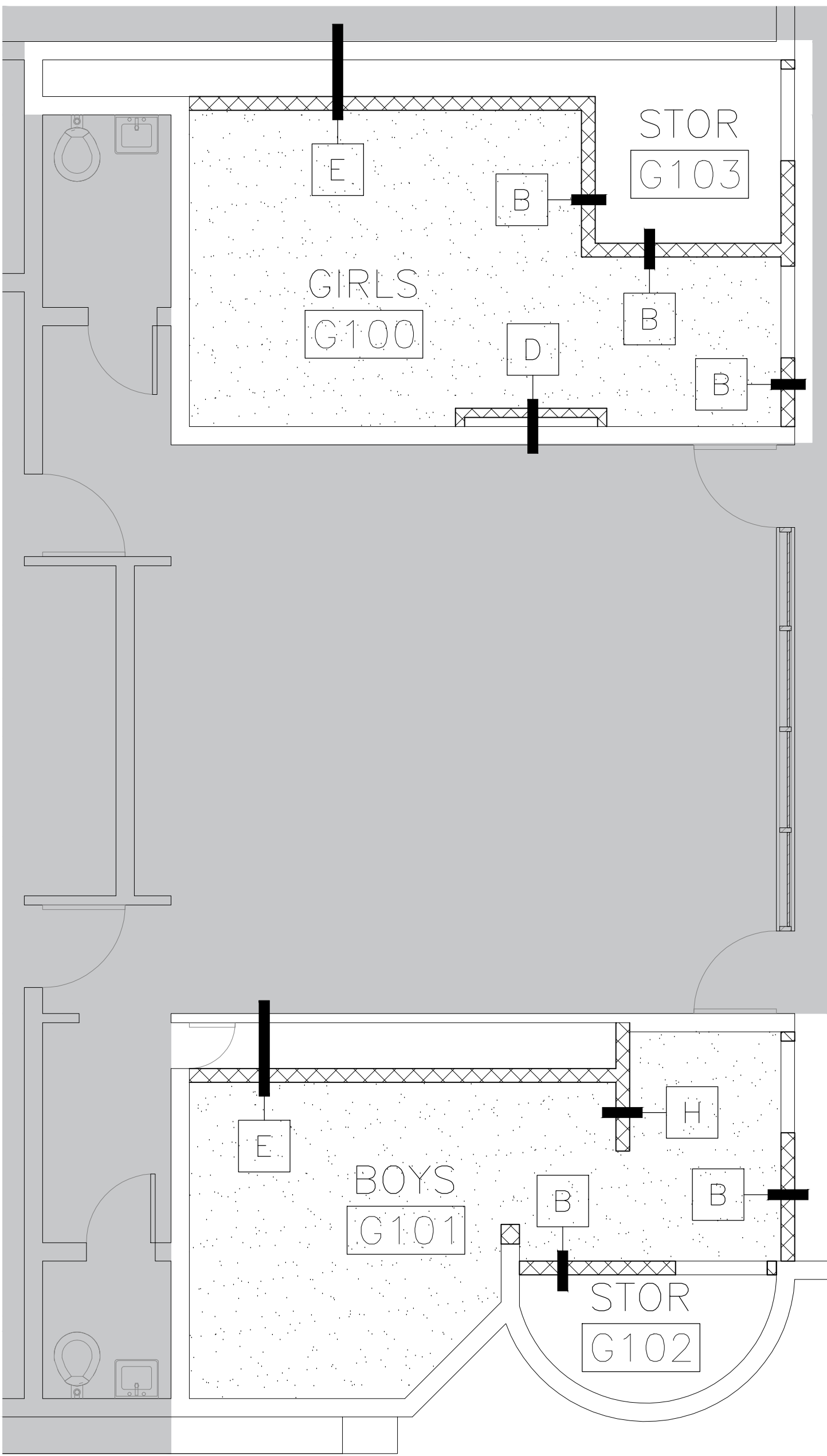
ADD. 2

A-121-N

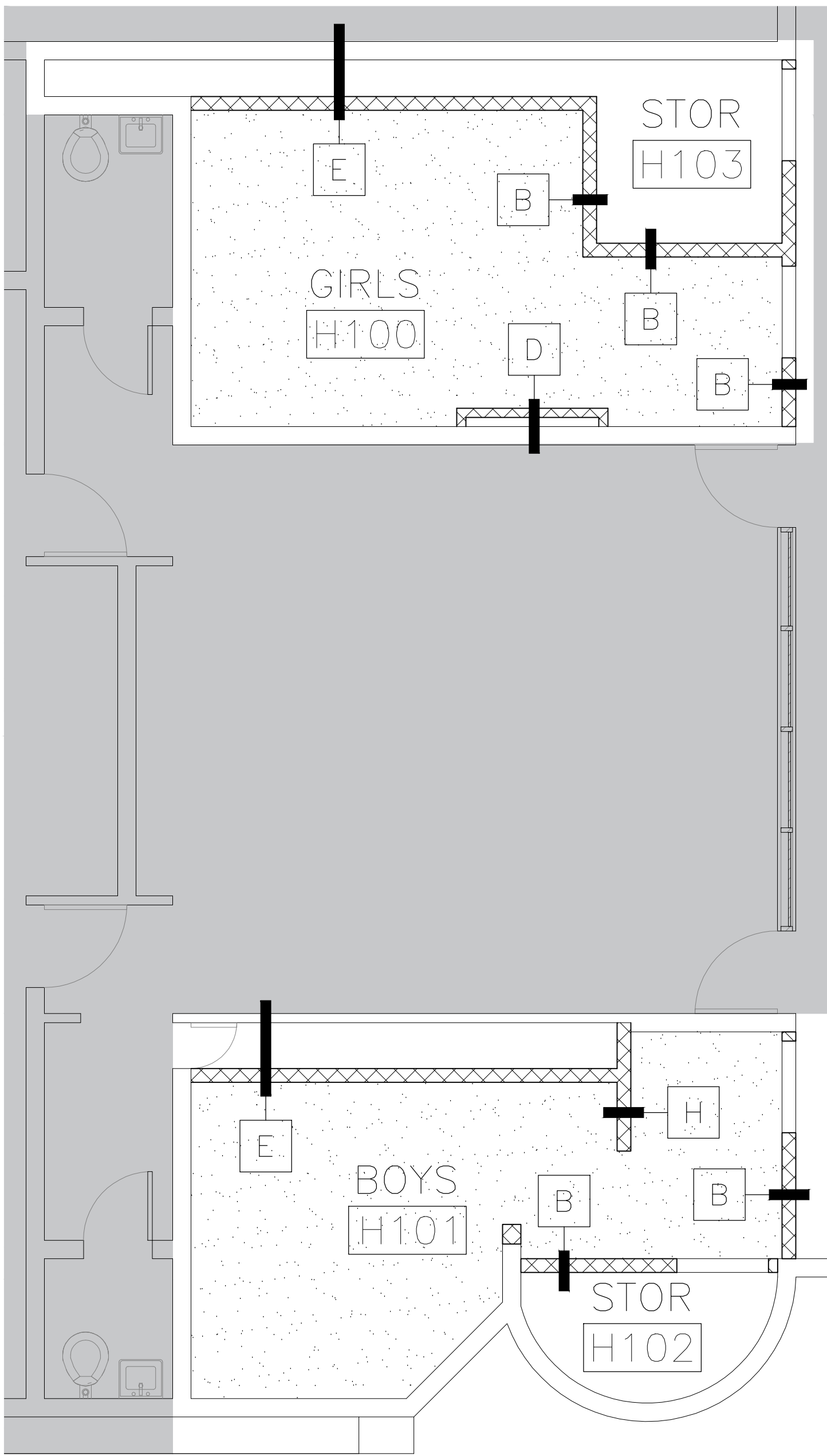
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1 REFLECTED CEILING PLAN — BUILDING A  
1/4" = 1'-0"



2 REFLECTED CEILING PLAN — BUILDING G  
1/4" = 1'-0"



3 REFLECTED CEILING PLAN — BUILDING H  
1/4" = 1'-0"

REFLECTED CEILING LEGEND

- PAINTED GYP. BOARD
- EXPOSED STRUCTURE, PAINTED
- THIS AREA NOT IN SCOPE

REFLECTED CEILING NOTES:

1. REFER TO MEP DRAWINGS FOR CEILING MOUNTED ITEMS.
2. FIELD VERIFICATION OF EXISTING STRUCTURE AND COORDINATION WITH MEP DURING SUBMITTAL PROCESS SHALL BE REQUIRED IN ORDER TO ACHIEVE MAXIMUM CEILING HEIGHTS.

Consultants:

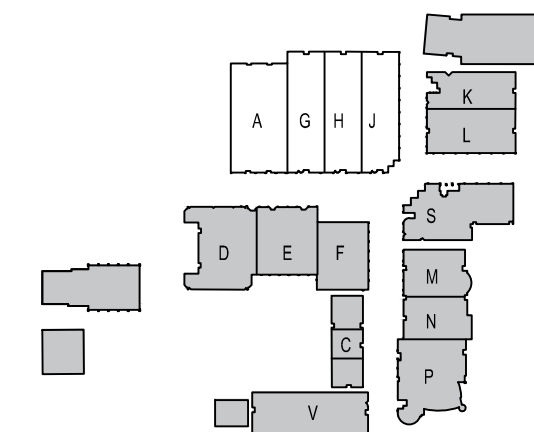
CIVIL:  
MELDEN & HUNT

STRUCTURAL:  
GREEN, RUBIANO &  
ASSOCIATES INC.

MEP:  
DBR ENGINEERING



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RENOVATIONS



KEYPLAN

Project Number: 19.04  
Drawing Date: MAY 10, 2019  
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Scale: VARIES  
ACAD File: DEMO PLAN

Revisions:  
1 - ADD 1 - 5/24/19

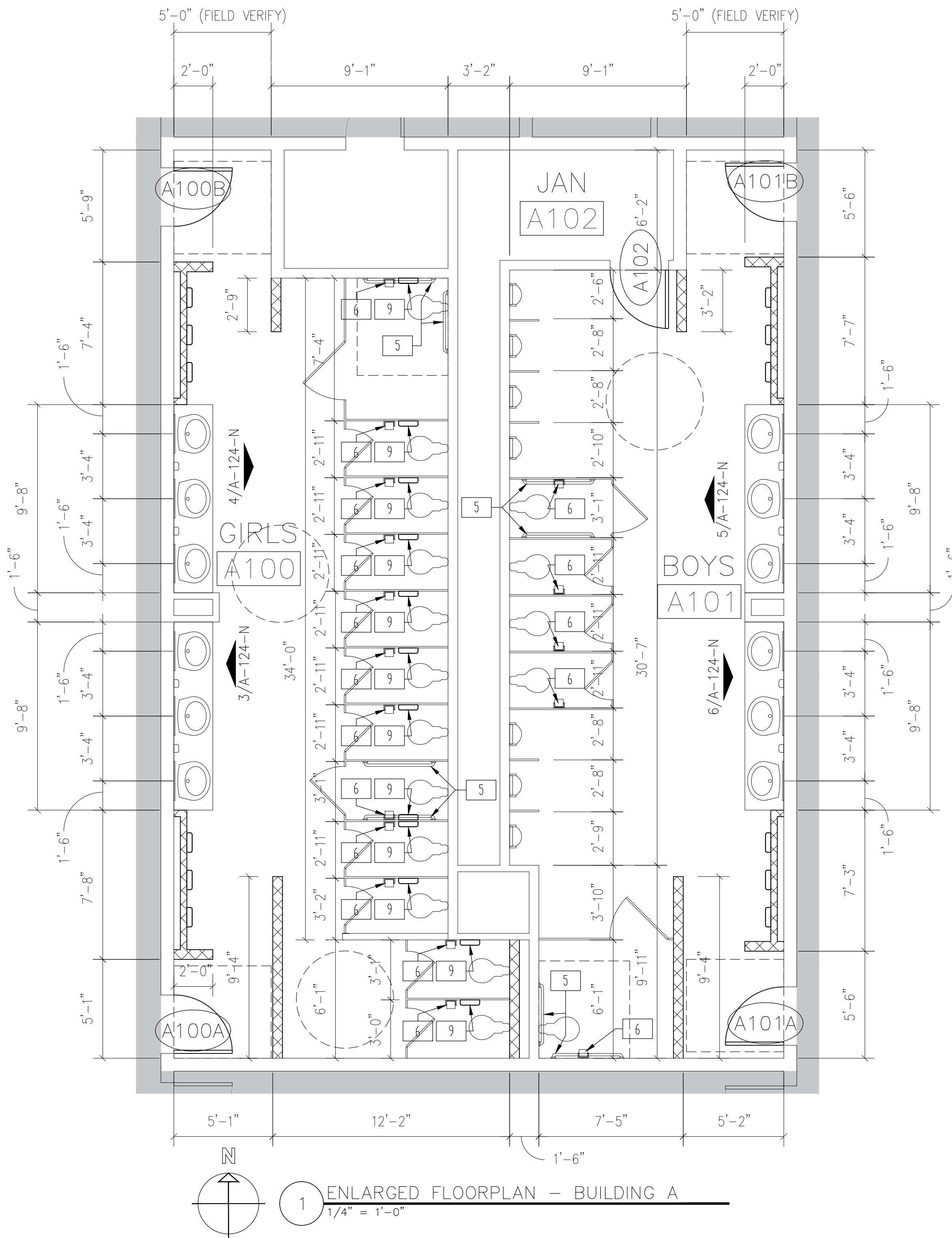
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CEILING PLAN

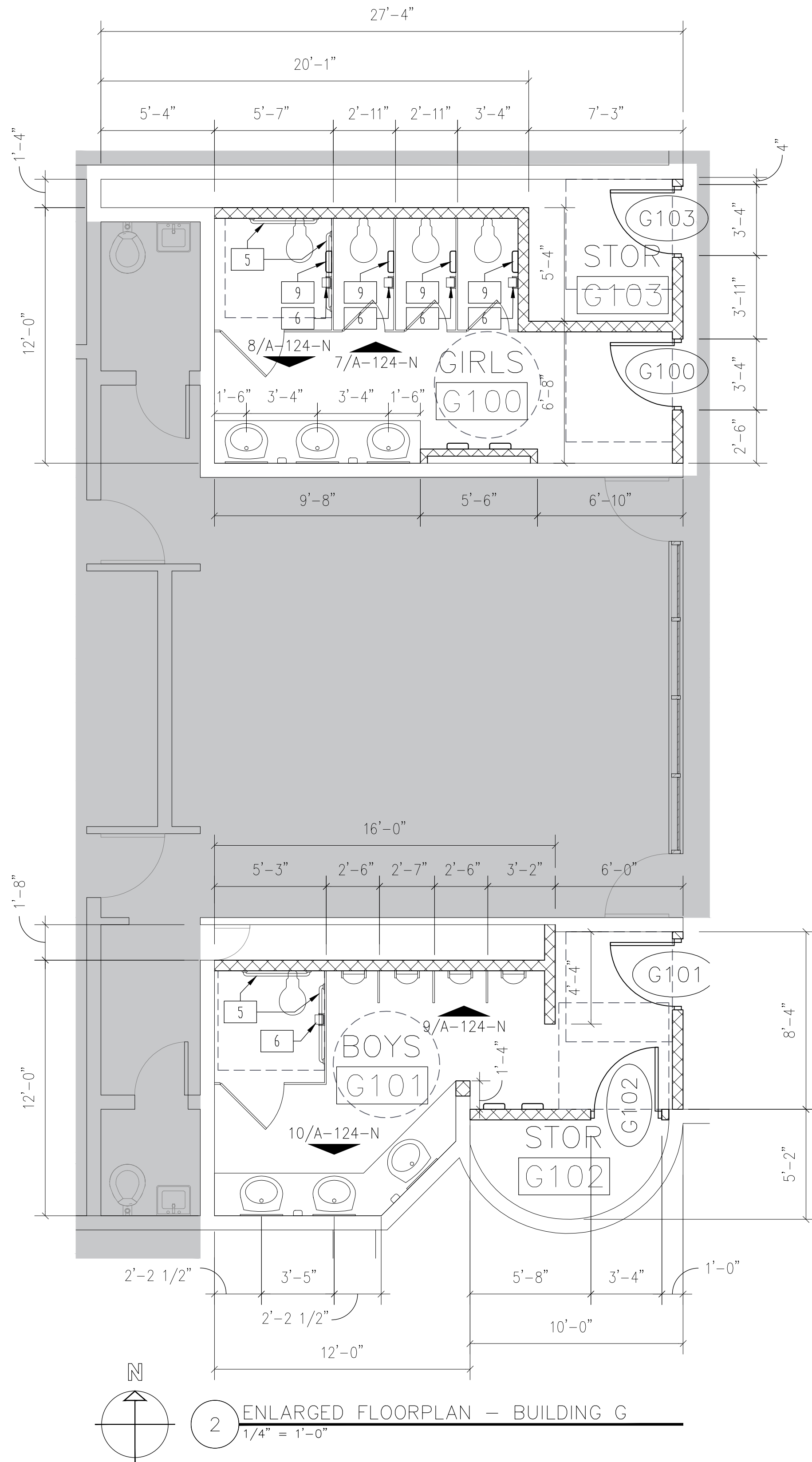
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A-122-N



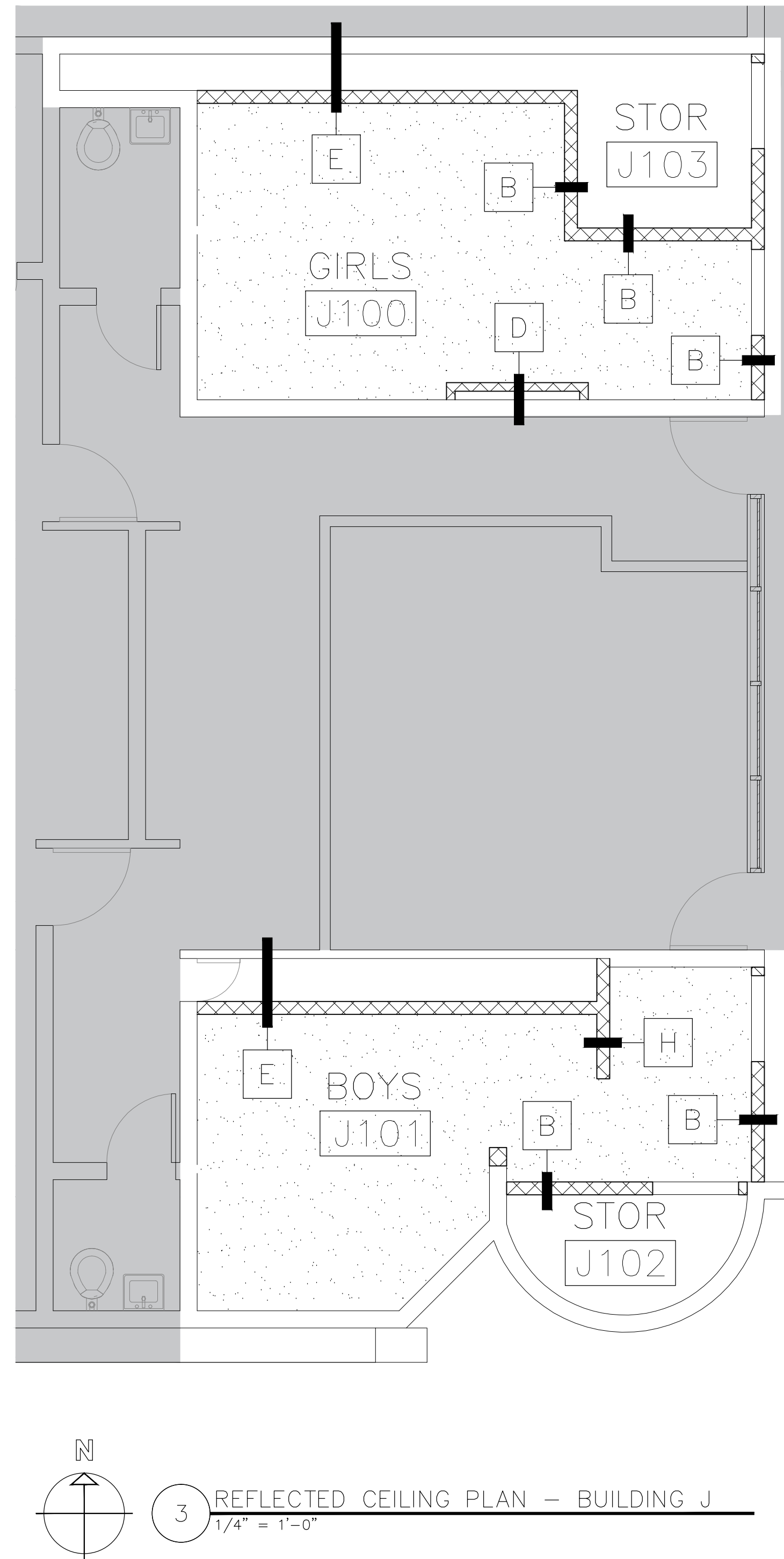
	FIXTURE MOUNTING HEIGHT SCHEDULE		ADULTS
	* REFER TO ADA GUIDELINES ON SHEET G-102.		
1	1. LAVATORIES/SINK (MEASURED FROM FLOOR TO RIM)	STANDARD	32"
		ACCESSIBLE	34" MAX (29" MIN KNEESPACE)
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6	6. TOILET TISSUE DISPENSER (MEASURED FROM FLOOR TO CENTERLINE OF ROLL)	STANDARD	20"
		ACCESSIBLE	19" MIN
7	7. ELECTRIC HAND DRYER (MEASURED FROM FLOOR TO CENTER OF CONTROL)	STANDARD	48"
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		ACCESSIBLE	
10	10. MIRRORS MIRROR PER LAVATORY (NOT NOTED FOR CLARITY). MEASURED FROM FLOOR TO BOTTOM OF REFLECTING SURFACE.	STANDARD	
		ACCESSIBLE	40" MAX
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12	12. MOP HOLDER (ONE PER ROOM LABELED CUSTODIAN)		48" MAX
13	13. TOILET PARTITION / URINAL SCREEN		NOT NOTED FOR CLARITY



1 ENLARGED FLOORPLAN - BUILDING A  
1/4" = 1'-0"



2 ENLARGED FLOORPLAN - BUILDING G  
1/4" = 1'-0"



3 REFLECTED CEILING PLAN - BUILDING J  
1/4" = 1'-0"

#### REFLECTED CEILING LEGEND

- PAINTED GYP. BOARD
- EXPOSED STRUCTURE, PAINTED
- THIS AREA NOT IN SCOPE

#### REFLECTED CEILING NOTES:

- REFER TO MEP DRAWINGS FOR CEILING MOUNTED ITEMS.
- FIELD VERIFICATION OF EXISTING STRUCTURE AND COORDINATION WITH MEP DURING SUBMITTAL PROCESS SHALL BE REQUIRED IN ORDER TO ACHIEVE MAXIMUM CEILING HEIGHTS.

#### Consultants:

**CIVIL:**  
MELDEN & HUNT

**STRUCTURAL:**  
GREEN, RUBIANO &  
ASSOCIATES INC.

**MEP:**  
DBR ENGINEERING

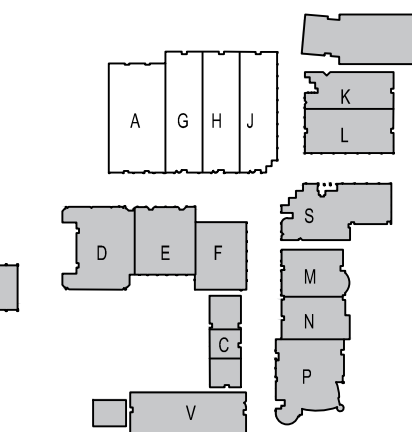


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#### KEYPLAN

Project Number: 19.04  
Drawing Date: MAY 10, 2019  
Drawn: CQ  
Checked: JM  
Scale: VARIES  
ACAD File: DEMO PLAN

#### Revisions:

1 - ADD 1 - 5/24/19

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ENLRG. FLRPLN.  
& REFL. CLG. PLN.

ADD. 2

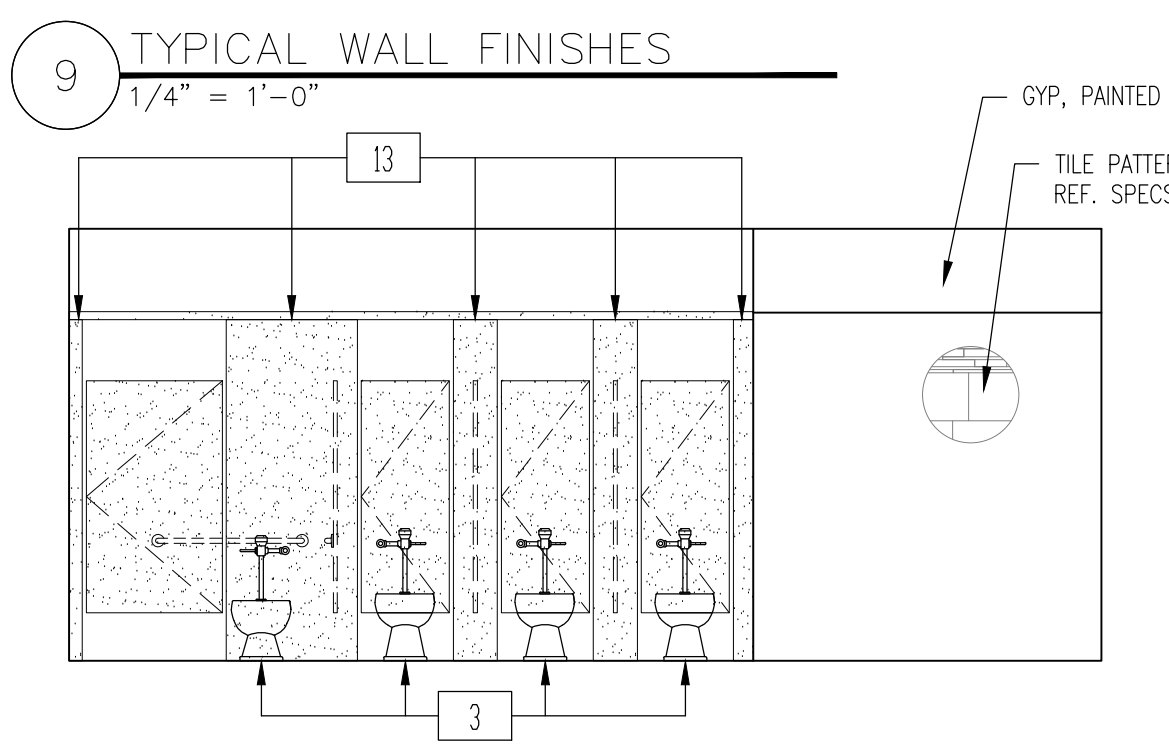
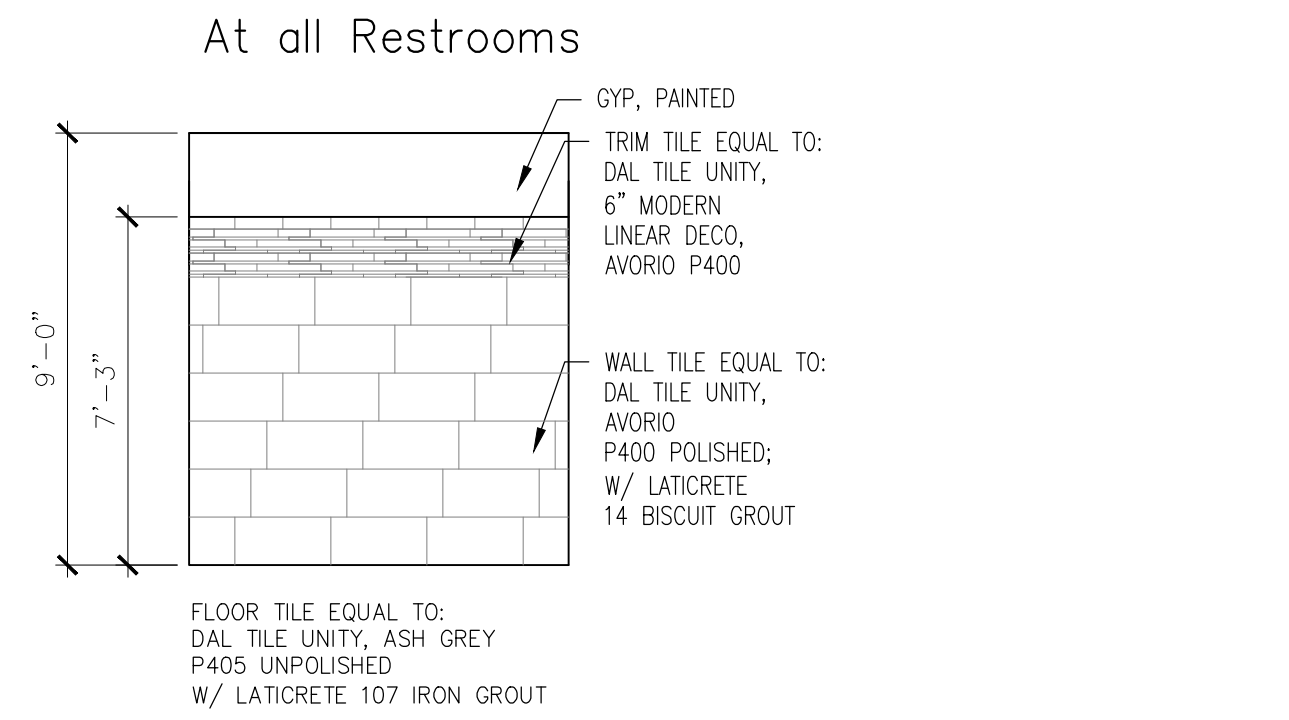
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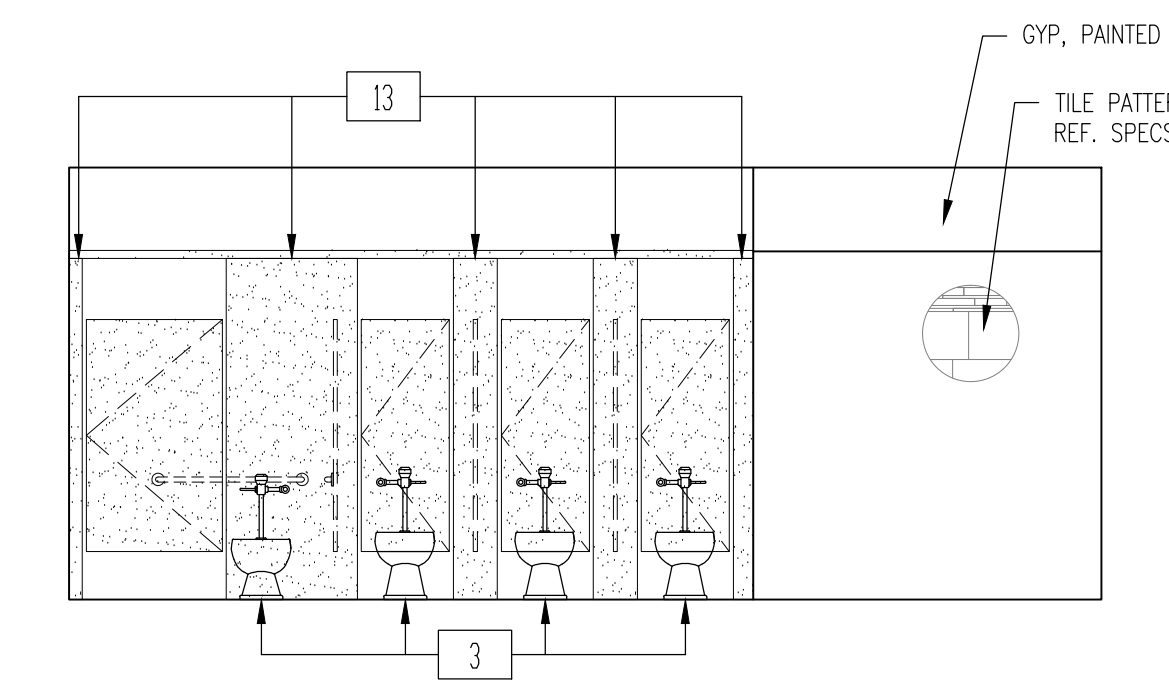




FIXTURE MOUNTING HEIGHT SCHEDULE			
* REFER TO ADA GUIDELINES ON SHEET G-102.		ADULTS	
1	1. LAVATORIES/SINK (MEASURED FROM FLOOR TO RIM)	STANDARD	32"
		ACCESSIBLE	34" MAX (29" MIN KNEESPACE)
2	2. URINALS (MEASURED FROM FLOOR TO RIM)	STANDARD	16" MAX
		ACCESSIBLE	17" MAX
3	3. WATER CLOSETS (MEASURED FROM FLOOR TO TOP OF SEAT)	STANDARD	15"
		ACCESSIBLE	17" TO 19"
4	4. DRINKING FOUNTAINS AND EWC's FRONTAL APPROACH (MEASURED FROM FLOOR TO SPOUT OUTLET)	STANDARD	42"
		ACCESSIBLE	36" MAX (27" MIN KNEESPACE)
5	5. GRAB BARS (MEASURED FROM FLOOR TO CENTERLINE OF BAR - 36" LONG @ REAR WALL & 42" LONG @ SIDE WALL OR 90 DEGREE CONT. GRAB BAR WHERE INDICATED)	STANDARD	
		ACCESSIBLE	33" TO 36" TO TOP OF GRAB BAR
6	6. TOILET TISSUE DISPENSER (MEASURED FROM FLOOR TO CENTERLINE OF ROLL)	STANDARD	20"
		ACCESSIBLE	19" MIN
7	7. ELECTRIC HAND DRYER (MEASURED FROM FLOOR TO CENTER OF CONTROL)	STANDARD	48"
		ACCESSIBLE	45" MAX
8	8. SOAP DISPENSER (MEASURED FROM FLOOR TO CENTERLINE OF PUSH BUTTON)	STANDARD	38"
		ACCESSIBLE	36"
9	9. SANITARY NAPKIN DISPOSAL UNIT (MEASURED FROM FLOOR TO TOP OF UNIT) (ONLY IN ROOMS LABELED WOMEN & GIRLS)	STANDARD	40"
		ACCESSIBLE	
10	10. MIRRORS 1 MIRROR PER LAVATORY (NOT NOTED FOR CLARITY). MEASURED FROM FLOOR TO BOTTOM OF REFLECTING SURFACE.	STANDARD	
		ACCESSIBLE	40" MAX
11	11. MOP BASIN / SERVICE SINK (ONE PER ROOM LABELED CUSTODIAN)		
12	12. MOP HOLDER (ONE PER ROOM LABELED CUSTODIAN)		48" MAX
13	13. TOILET PARTITION / URINAL SCREEN	NOT NOTED FOR CLARITY	

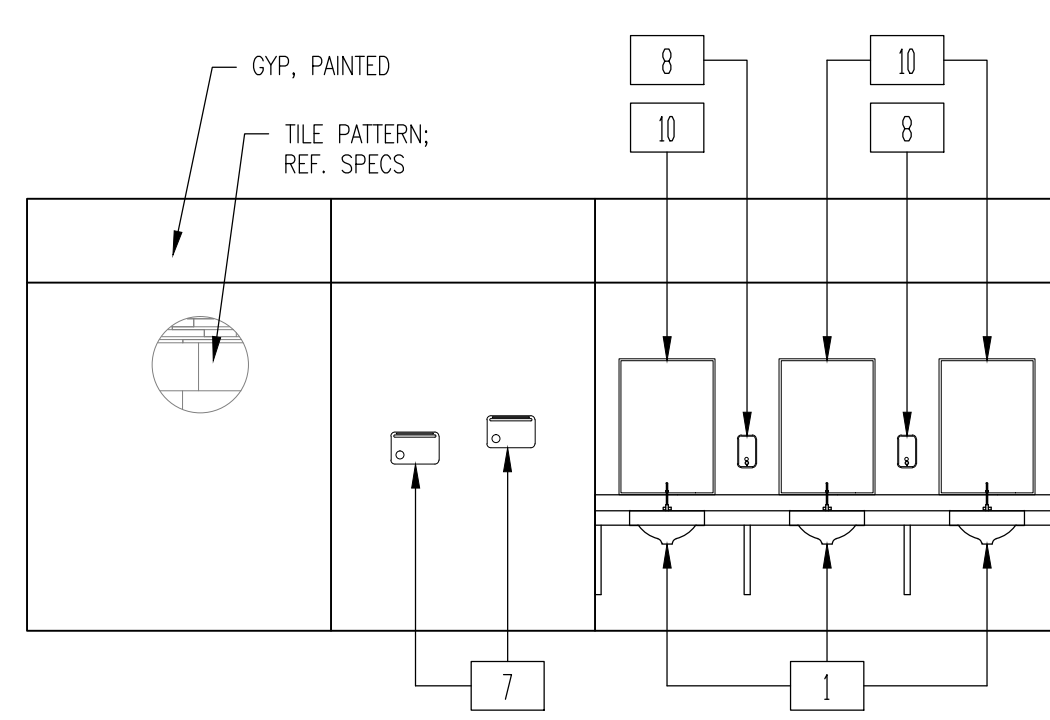


5 INTERIOR ELEVATION — GIRLS J100  
1/4" = 1'-0"

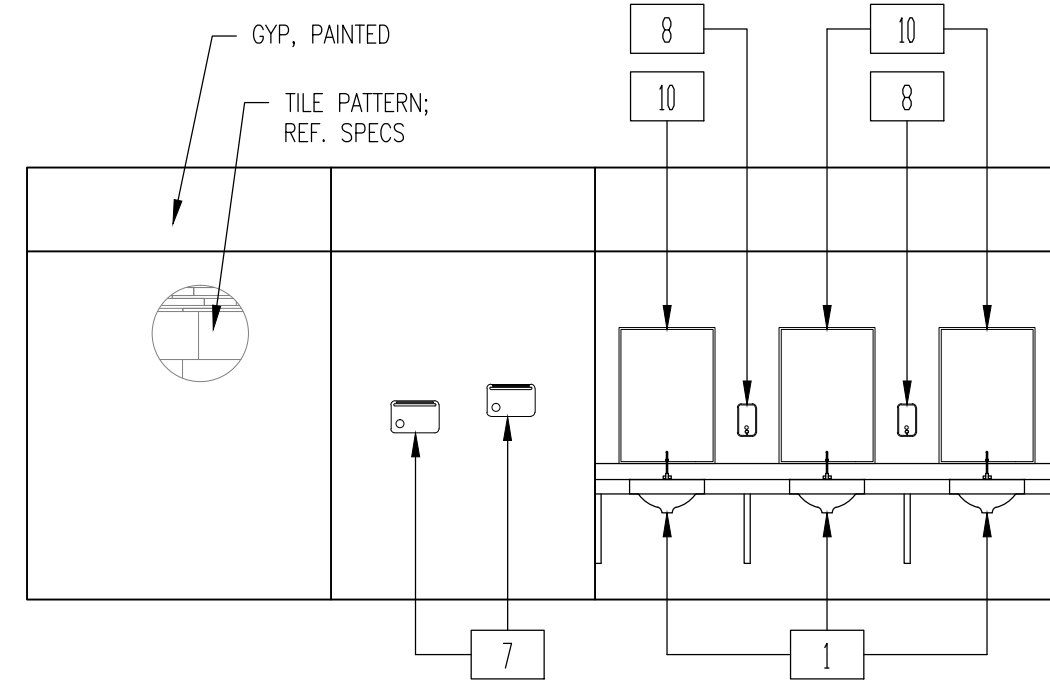


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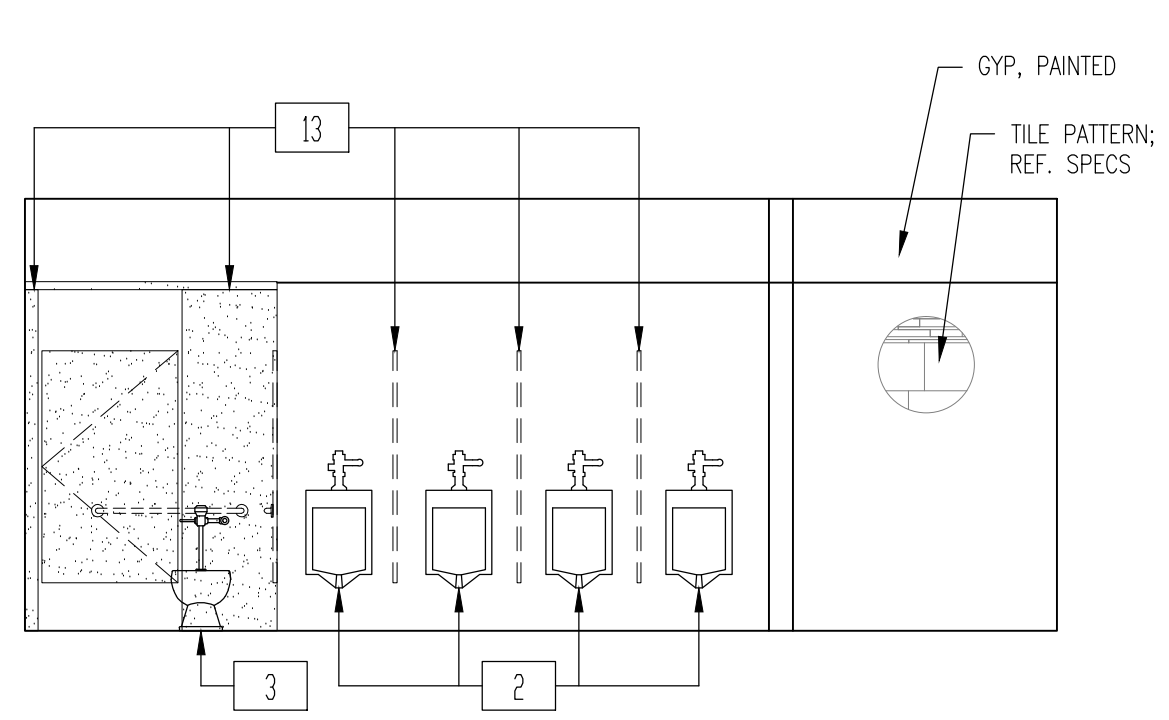


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1/4" = 1'-0"

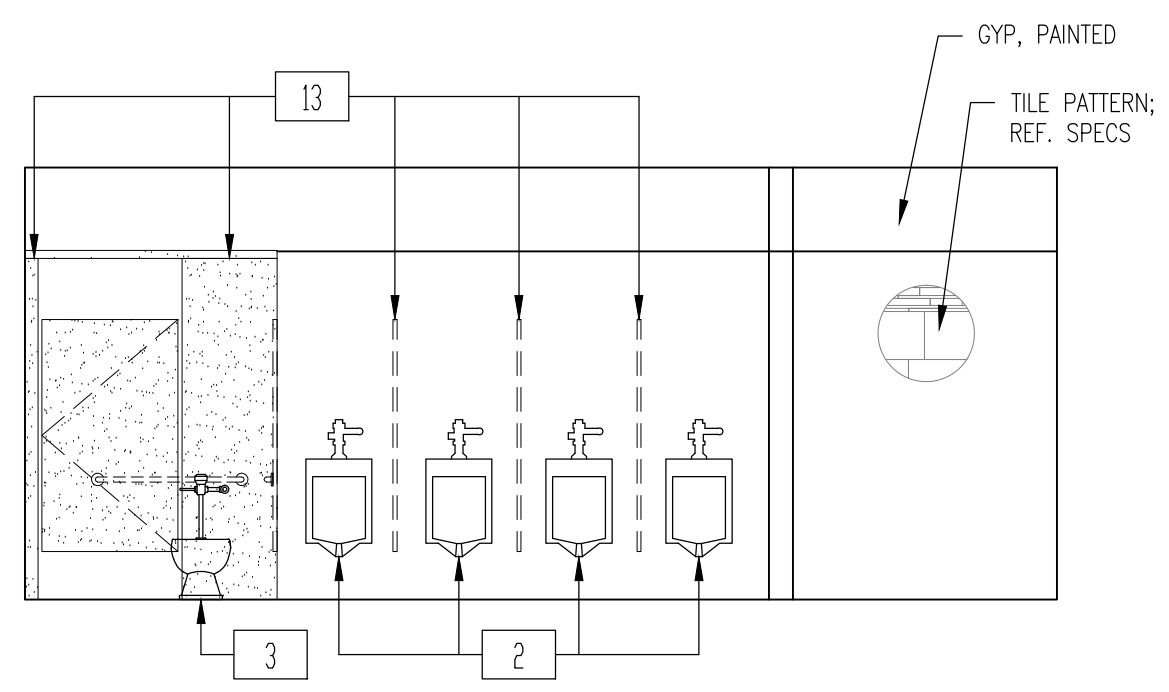


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1/4" = 1'-0"

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1/4" = 1'-0"

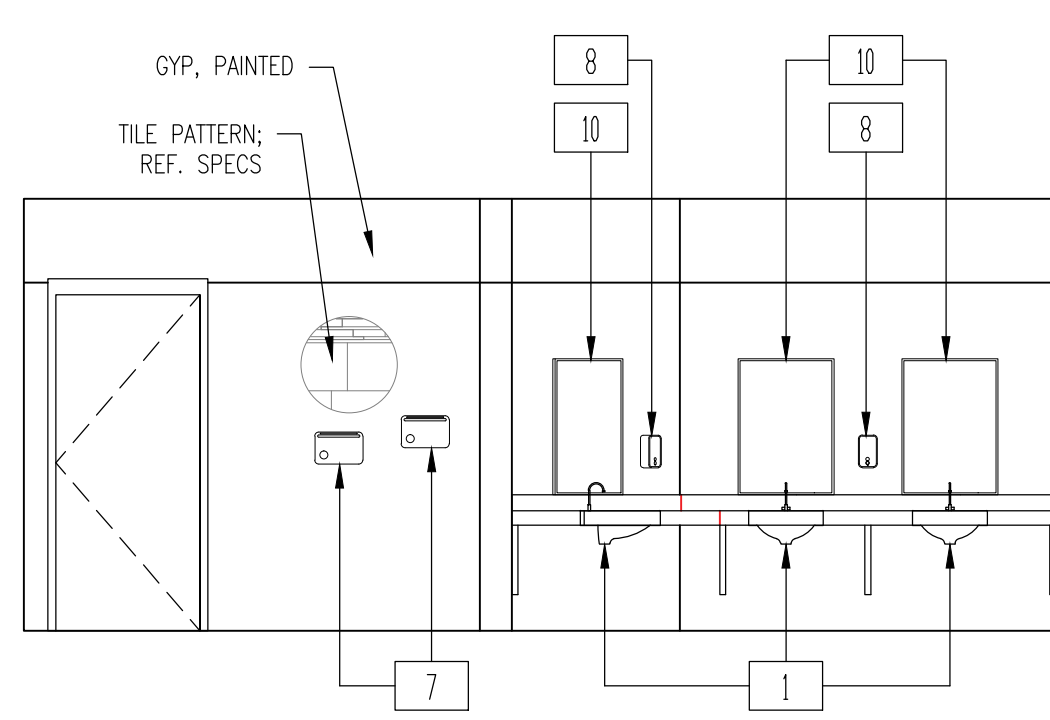


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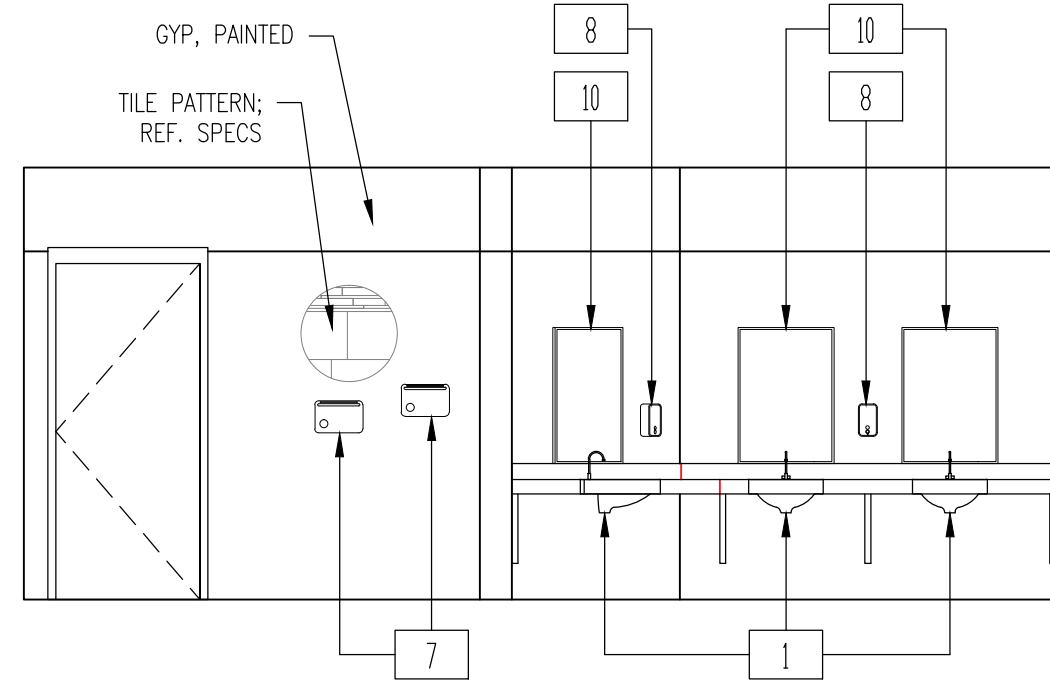


3 INTERIOR ELEVATION — BOYS H101  
1/4" = 1'-0"

3 INTERIOR ELEVATION — BOYS H101  
1/4" = 1'-0"



8 INTERIOR ELEVATION — BOYS J101  
1/4" = 1'-0"



4 INTERIOR ELEVATION — BOYS H101  
1/4" = 1'-0"

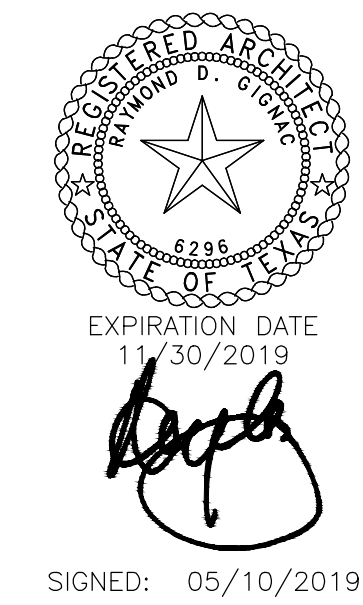
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1/4" = 1'-0"

Consultants:

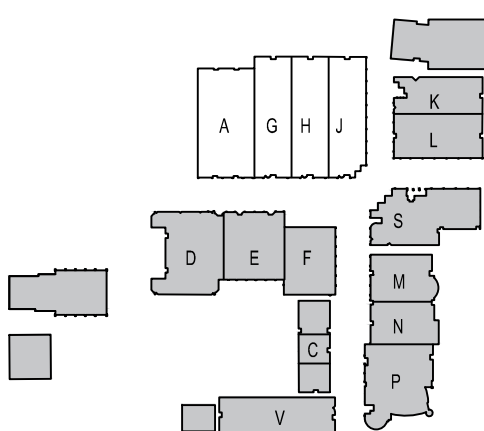
CIVIL:  
MELDEN & HUNT

STRUCTURAL:  
GREEN, RUBIANO &  
ASSOCIATES INC.

MEP:  
DBR ENGINEERING



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KEYPLAN

Project Number: 19.04  
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Revisions:  
1 - ADD 1 - 5/24/19

Sheet Title:

BLDG. A-G-H-J  
INT. ELEV.

ADD. 2  
A-125-N

GENERAL CONSTRUCTION NOTES

- DEMOLITION AND PROPOSED WORK WILL HAVE TO BE COORDINATED WITH THE OWNER TO MINIMIZE DISRUPTIONS TO THE CAMPUS, WHICH MAY BE IN USE.
- ANY EXISTING WALLS TO REMAIN THAT REQUIRE REPAIR AFTER DEMOLITION IS COMPLETE, SHALL BE OBSERVED BY THE DESIGN TEAM AND OWNER PRIOR TO REPAIR. COORDINATION WILL BE REQUIRED.
- ANY OPENINGS IN EXISTING WALLS SCHEDULED TO BE INFILLED SHALL HAVE THE SAME MATERIAL AND FINISH AS THAT OF THE EXISTING WALL. ALL INFILLED OPENINGS SHALL BE FLUSH WITH EXISTING WALL SURFACES AND PAINTED.

DOOR SCHEDULE

DOOR SCHEDULE	DOOR				FRAME		REMARKS
	WIDTH	HEIGHT	TYPE	MATERIAL	TYPE	MATERIAL	
K100A	3'-0"	7'-0"	FL	WD	A	HM	
K100B	3'-0"	7'-0"	FL	HM	A	HM	FIELD VERIFY EXISTING OPENING
K101	3'-0"	7'-0"	FL	HM	A	HM	
K102A	3'-0"	7'-0"	FL	WD	A	HM	
K102B	3'-0"	7'-0"	FL	HM	A	HM	FIELD VERIFY EXISTING OPENING

ROOM FINISH SCHEDULE

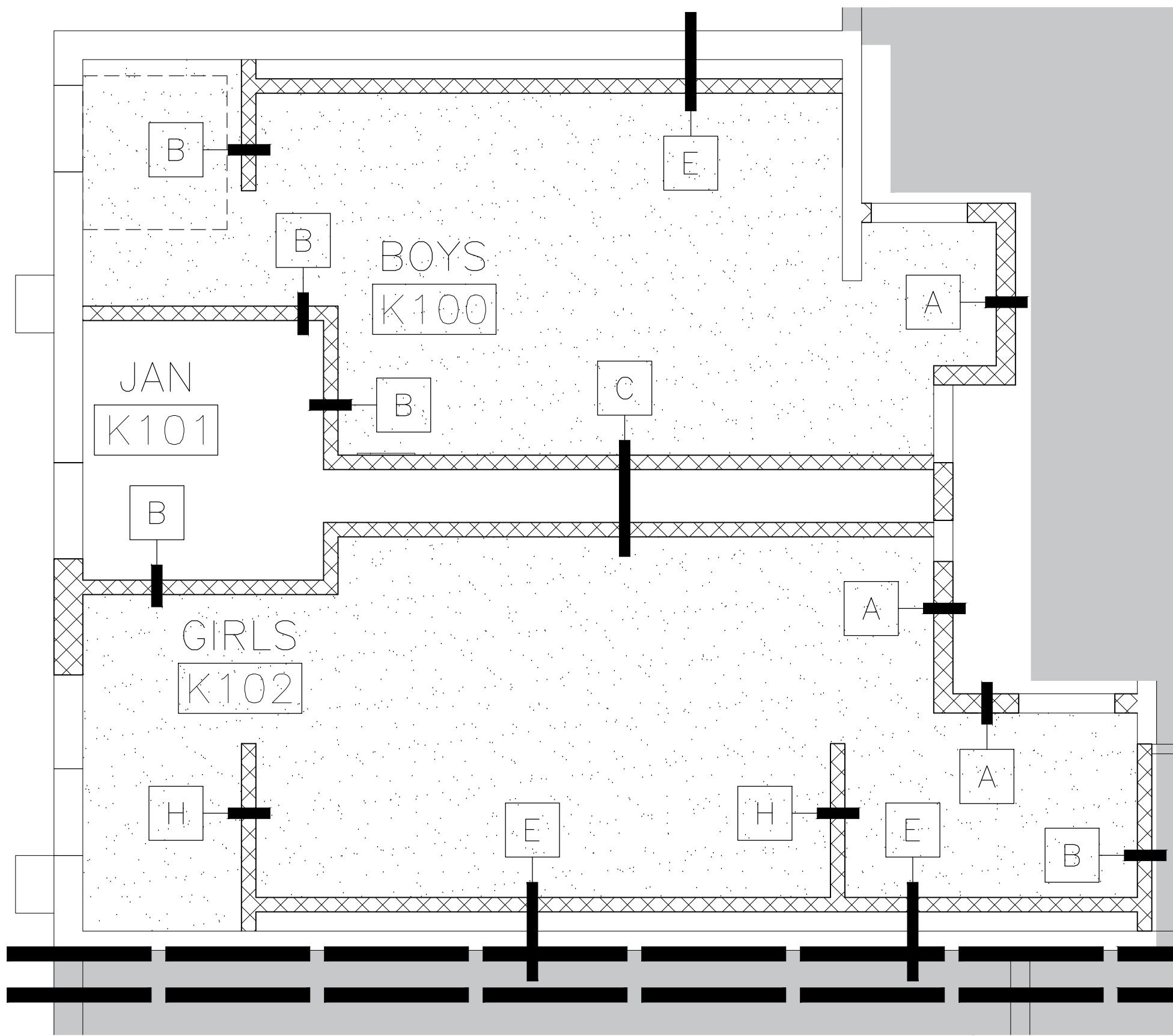
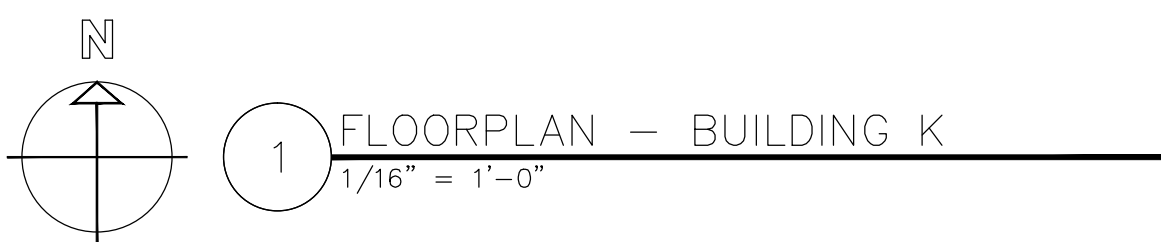
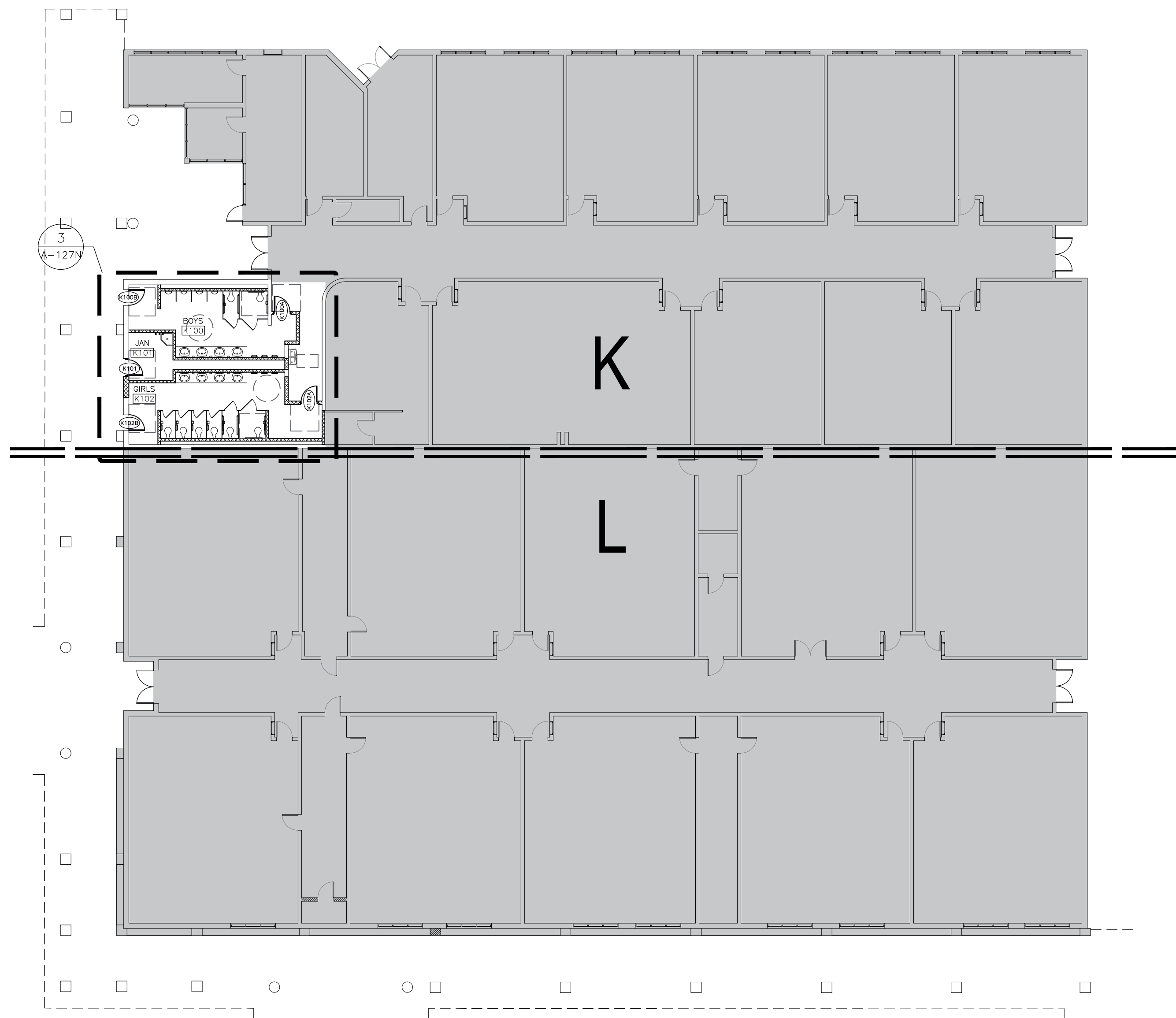
NUMBER	NAME	FLOOR	BASE	NORTH WALL	SOUTH WALL	EAST WALL	WEST WALL	CEILING	CLG HT.	NOTES
K100	BOYS	TILE: UNITY ASH GREY	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	GYP. PTD.	9'-0"	
K101	JANITOR	SEALED CONCRETE	NONE	PT	PT	PT	PT	EXP. STRUC		PAINT EXPOSED STRUCTURE & DECK
K102	GIRLS	TILE: UNITY ASH GREY	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	GYP. PTD.	9'-0"	

REFLECTED CEILING LEGEND

- PAINTED GYP. BOARD
- EXPOSED STRUCTURE, PAINTED
- THIS AREA NOT IN SCOPE

REFLECTED CEILING NOTES:

- REFER TO MEP DRAWINGS FOR CEILING MOUNTED ITEMS.
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Consultants:

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MELDEN & HUNT

STRUCTURAL:  
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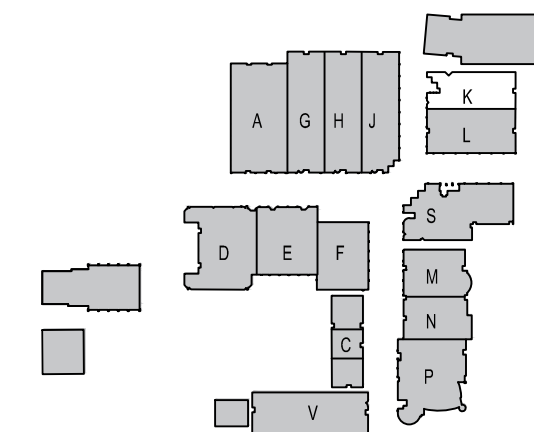
MEP:  
DBR ENGINEERING



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UNIVERSITY  
CAMPUS  
STUDENT  
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RENOVATIONS



KEYPLAN

Project Number: 19.04  
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ACAD File: DEMO PLAN

Revisions:

1 - ADD 1 - 5/24/19

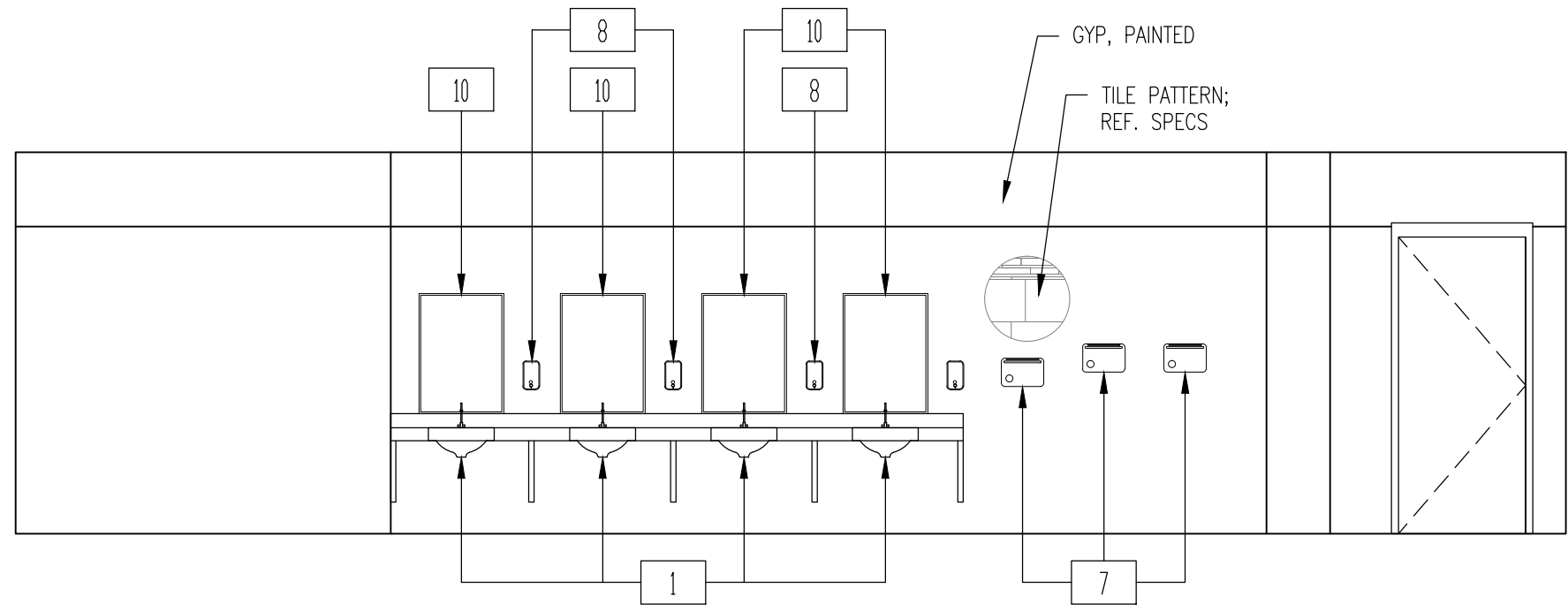
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FLOORPLAN &  
REFL. CLG. PLN.

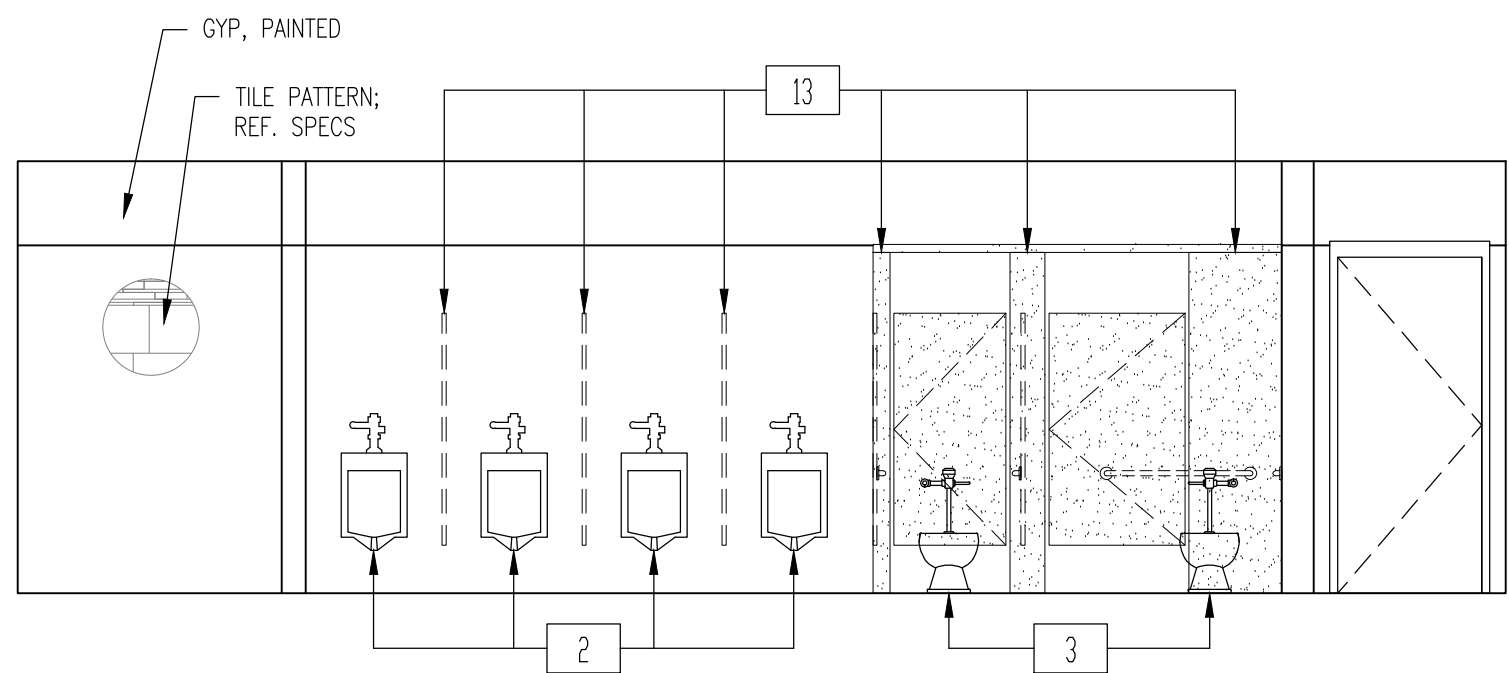
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A-126-N



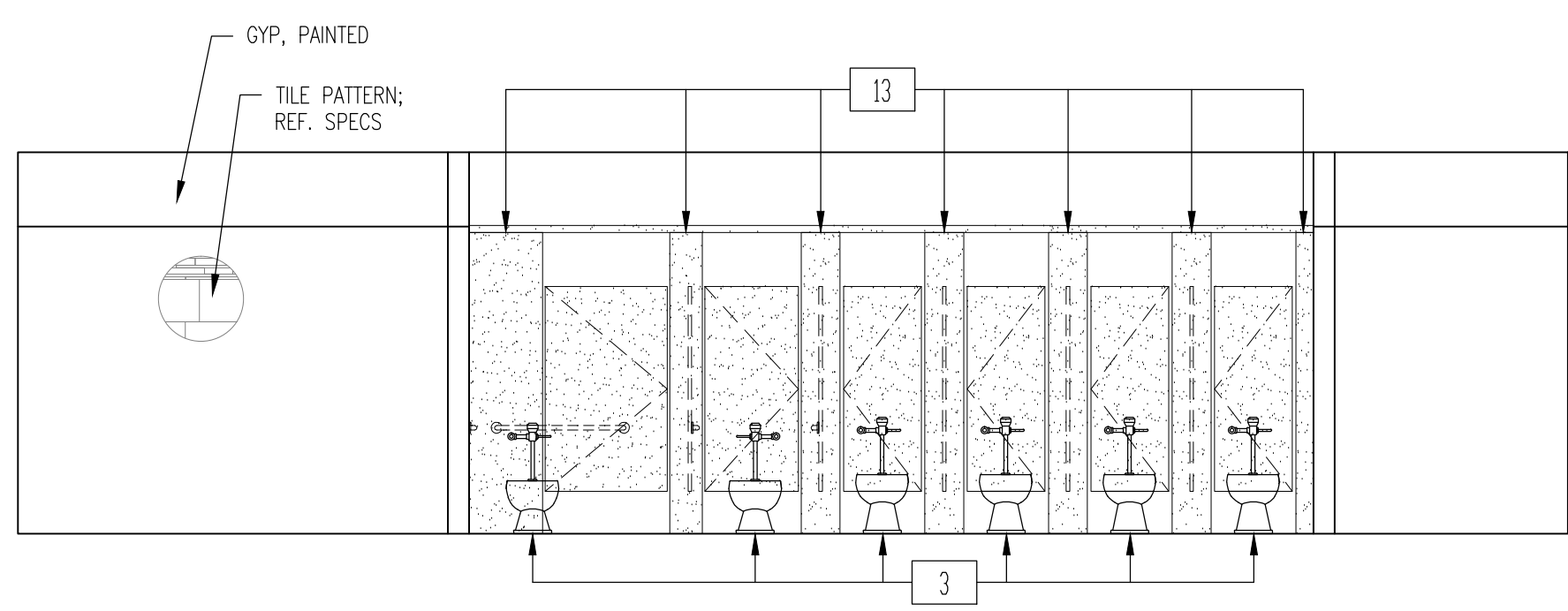
	FIXTURE MOUNTING HEIGHT SCHEDULE		ADULTS
	* REFER TO ADA GUIDELINES ON SHEET G-102.		
1	1. LAVATORIES/SINK (MEASURED FROM FLOOR TO RIM)	STANDARD	32"
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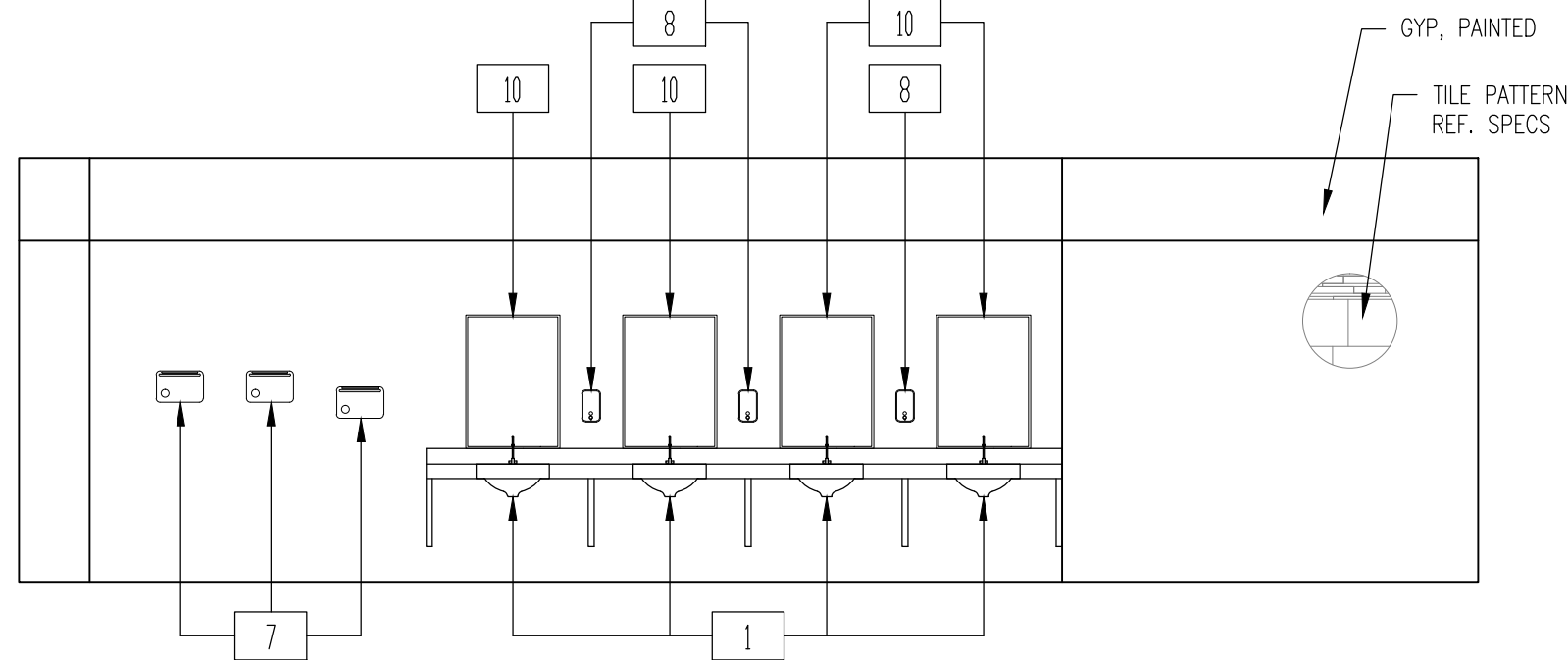
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1/4" = 1'-0"



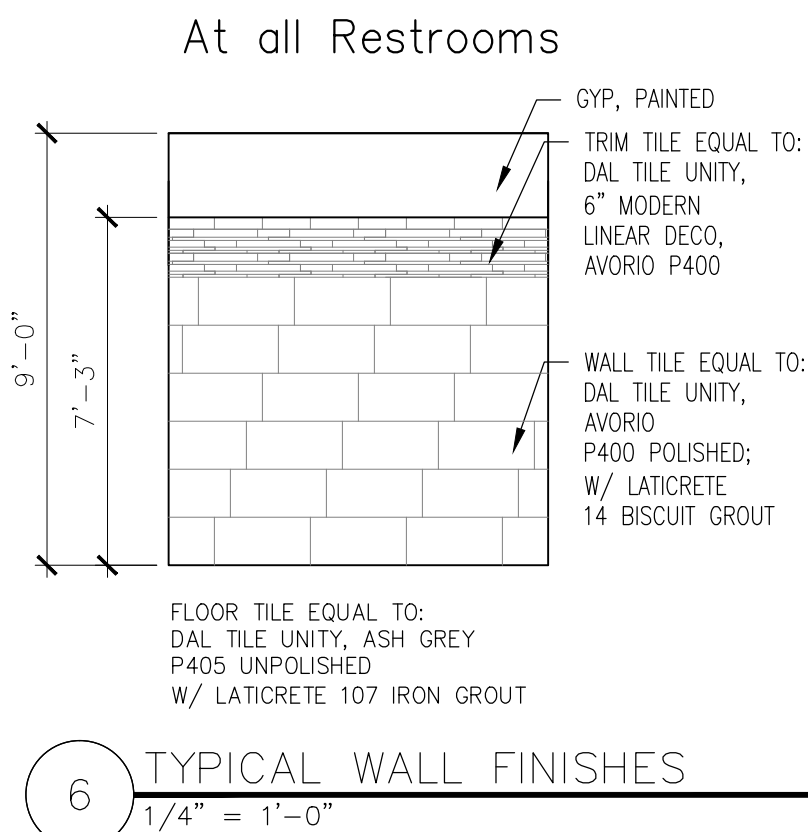
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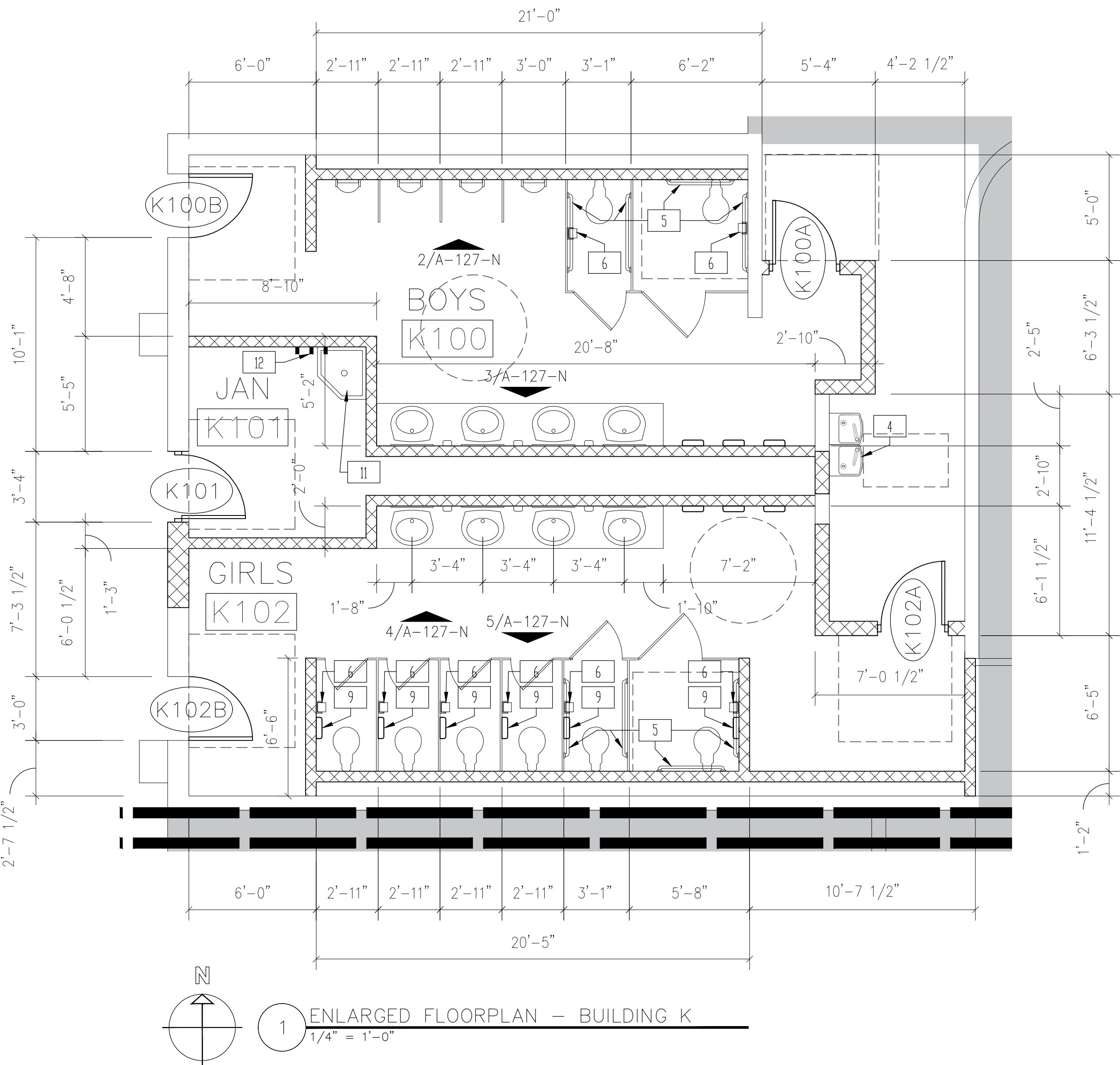
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1/4" = 1'-0"



3 INTERIOR ELEVATION - BOYS K100  
1/4" = 1'-0"



6 TYPICAL WALL FINISHES  
1/4" = 1'-0"



1 ENLARGED FLOORPLAN - BUILDING K  
1/4" = 1'-0"

Consultants:

CIVIL:

MELDEN & HUNT

STRUCTURAL:

GREEN RUBIANO &

ASSOCIATES INC.

MEP:

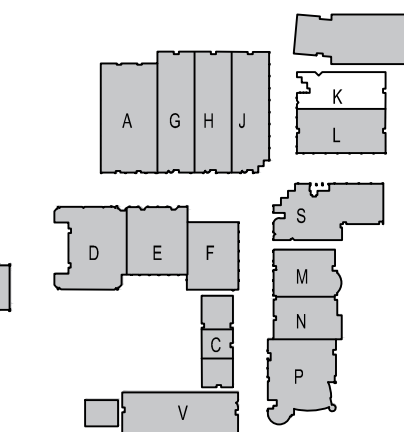
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KEYPLAN

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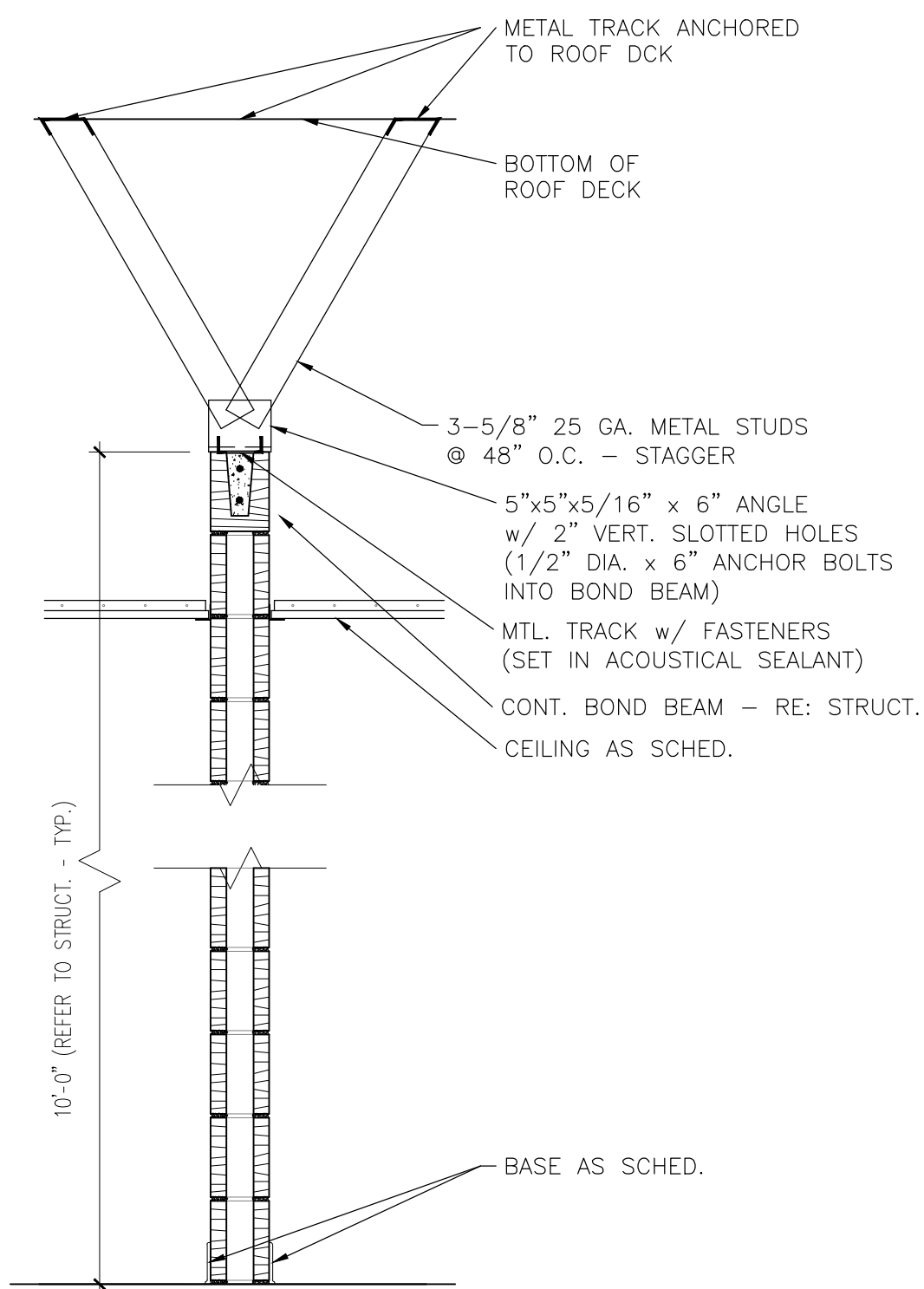
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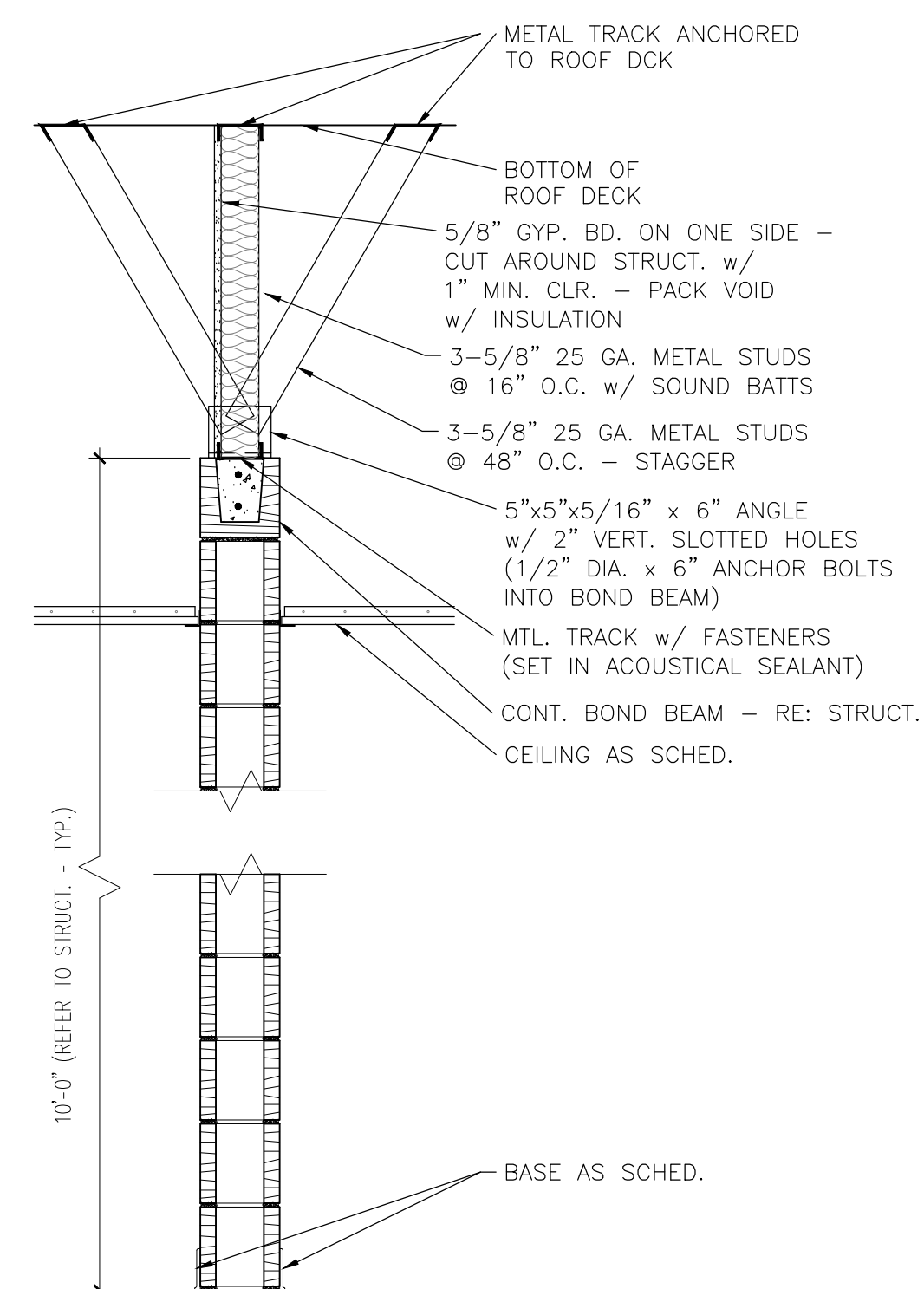
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ADD. 2  
A-127-N

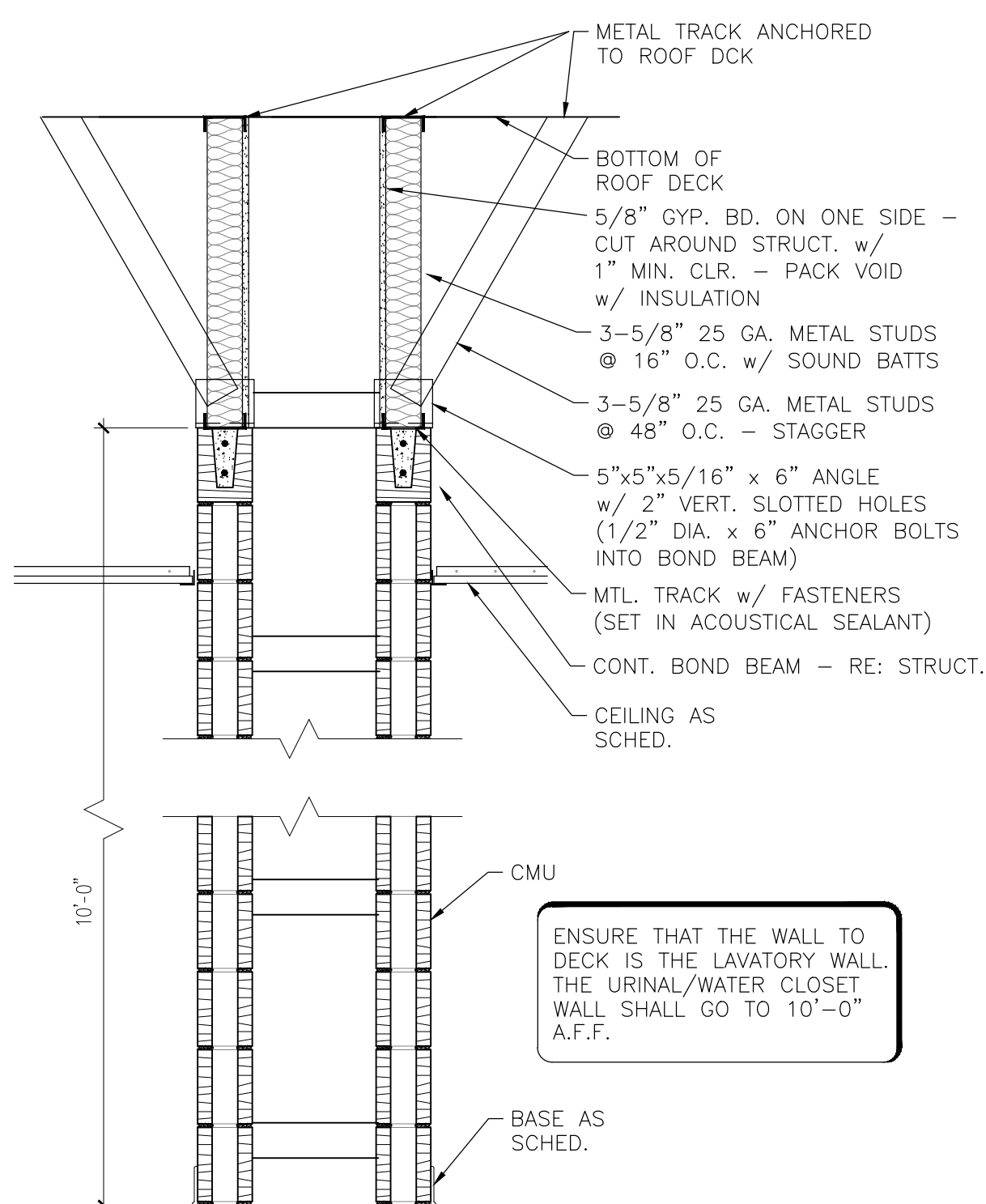
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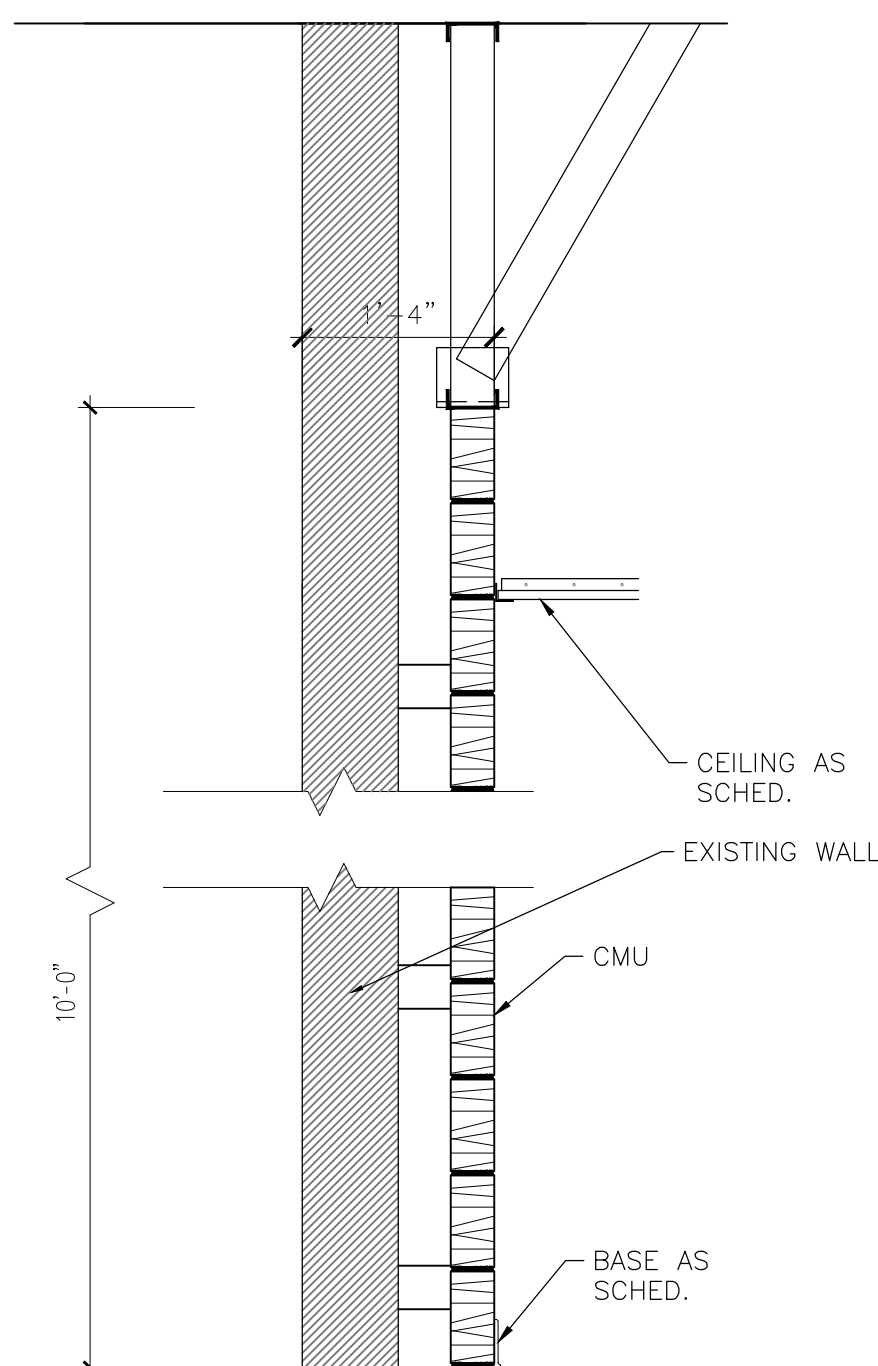
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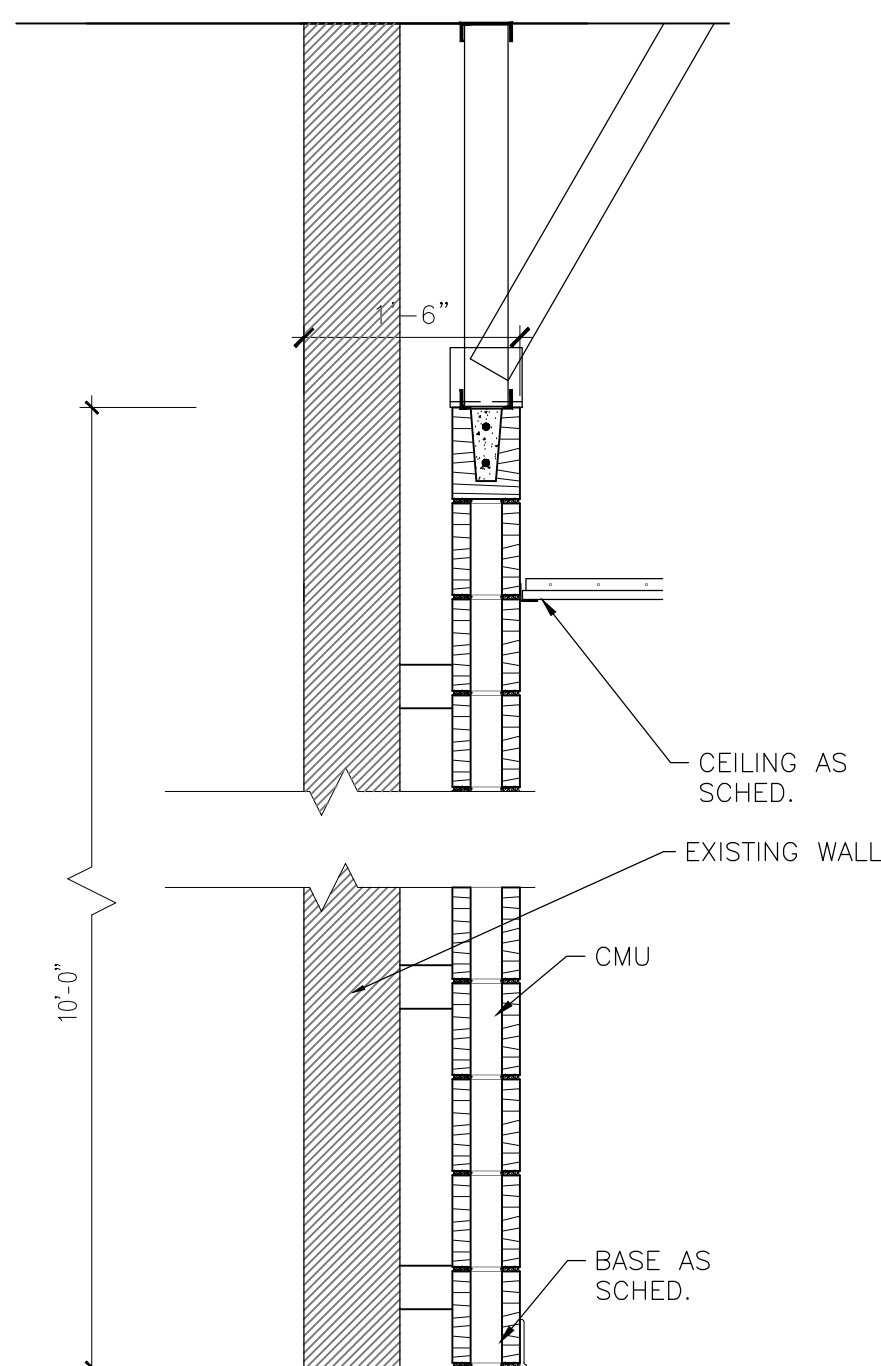
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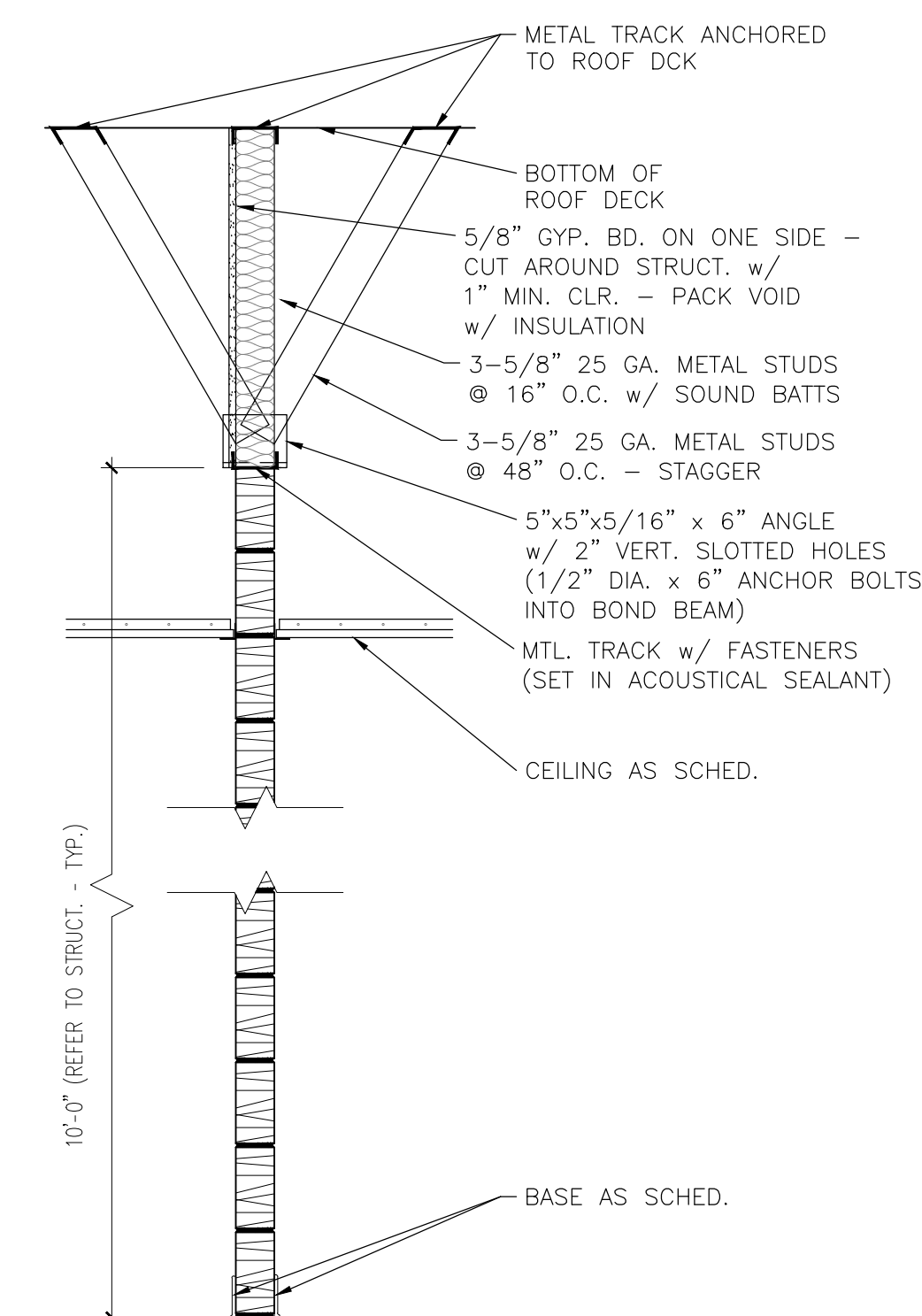
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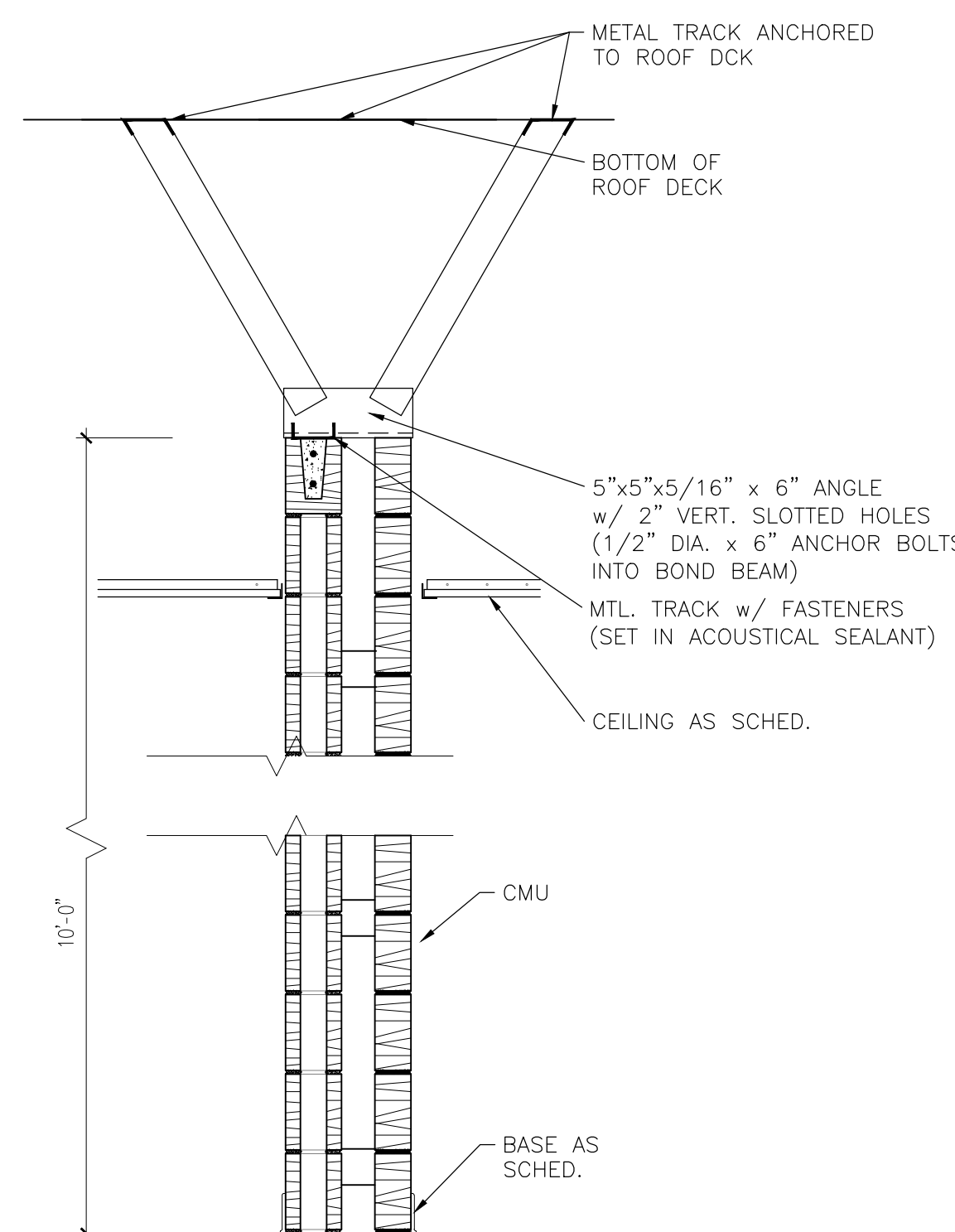
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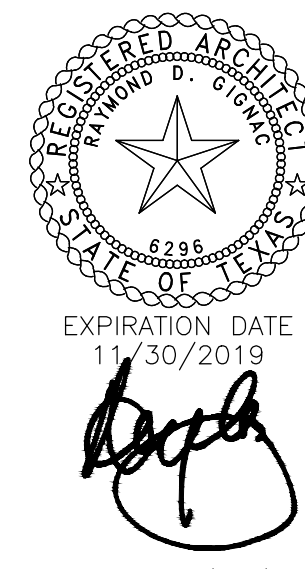
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Consultants:

**CIVIL:**  
**MELDEN & HUNT**

**STRUCTURAL:**  
**GREEN, RUBIANO &  
ASSOCIATES INC.**

**MEP:**  
**DBR ENGINEERING**



SIGNED: 05/10/2019



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CAMPUS**

**STUDENT  
RESTROOM  
RENOVATIONS**

**KEYPLAN**

Project Number: 19.04  
Drawing Date: MAY 10, 2019  
Drawn: AL  
Checked: JM  
Scale: VARIOUS  
ACAD File: A-230-U

Revisions:

1 - ADD 1 - 5/24/19

Sheet Title:

**WALL TYPES**

**ADD. 2  
A-140-N**



## Addendum

**DATE**

5/28/2019

**ADDENDUM NO.**

2

**PROJECT**

198008.000 | Pharr-San Juan-Alamo ISD – North EHS & College and University Campus – Renovations

The work described herein shall be added to the scope of work defined by the contract documents or it shall modify the scope of work defined by the contract documents as described. This work shall become a part of the contract documents by addendum.

### DRAWINGS

**Item 01      Sheet MEP2.01U – MEP Site Plan Univ. Campus**

- A.      Added site plan sheet. Re: MEP 2.01U

**Item 02      Sheet MD2.12U – Mechanical Demo Plan – Univ. Campus**

- A.      Outside air units to remain and all associated ductwork and air devices shall not be removed and noted to be relocated. Transfer ducts to be relocated. Re: MD2.12U.

**Item 03      Sheet M2.12U – Mechanical Plan – Univ. Campus**

- A.      Replaced sheet in its entirety. Refer to M2.12U for new mechanical plan.
- B.      Omit roof top units, venturi valves, and plum fume hood exhaust fans. Refer to M2.12U for new scope. Architect has scheduled new ductless fume hoods with integrated exhaust fan system.

**Item 04      Sheet M5.01U – Mechanical Schedules – Univ. Campus**

- A.      Omit roof top units, venturi valve, and plume fume exhaust fan schedules.

**Item 05      Sheet EP2.12U – Electrical Enlarged Power Plans**

- A.      Removed electrical circuit information for roof top units. Re: EP 2.12U
- B.      Removed electrical circuit information for fume hood exhaust fans. Re: EP 2.12U
- C.      Modified electrical circuiting to lab hoods. Re: EP 2.12U

**Item 06      Sheet E5.01U – Electrical Schedules**

- A.      Updated electrical circuit information on panel schedules; HMSB1, LMSBL1, LMSBL2, and LMSBL3. Re: E 5.01U

END OF ADDENDUM





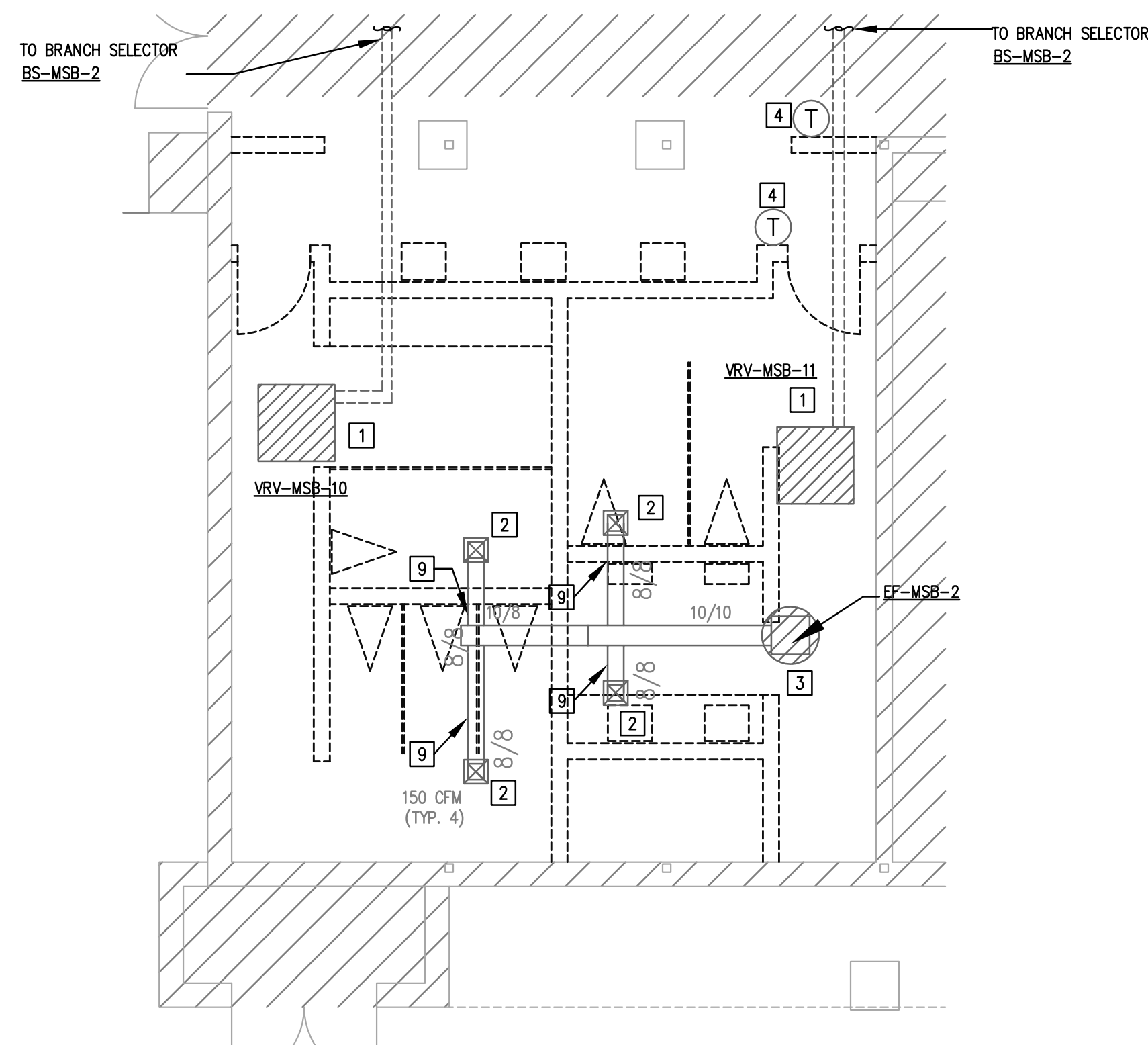
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## MECHANICAL GENERAL DEMO NOTES

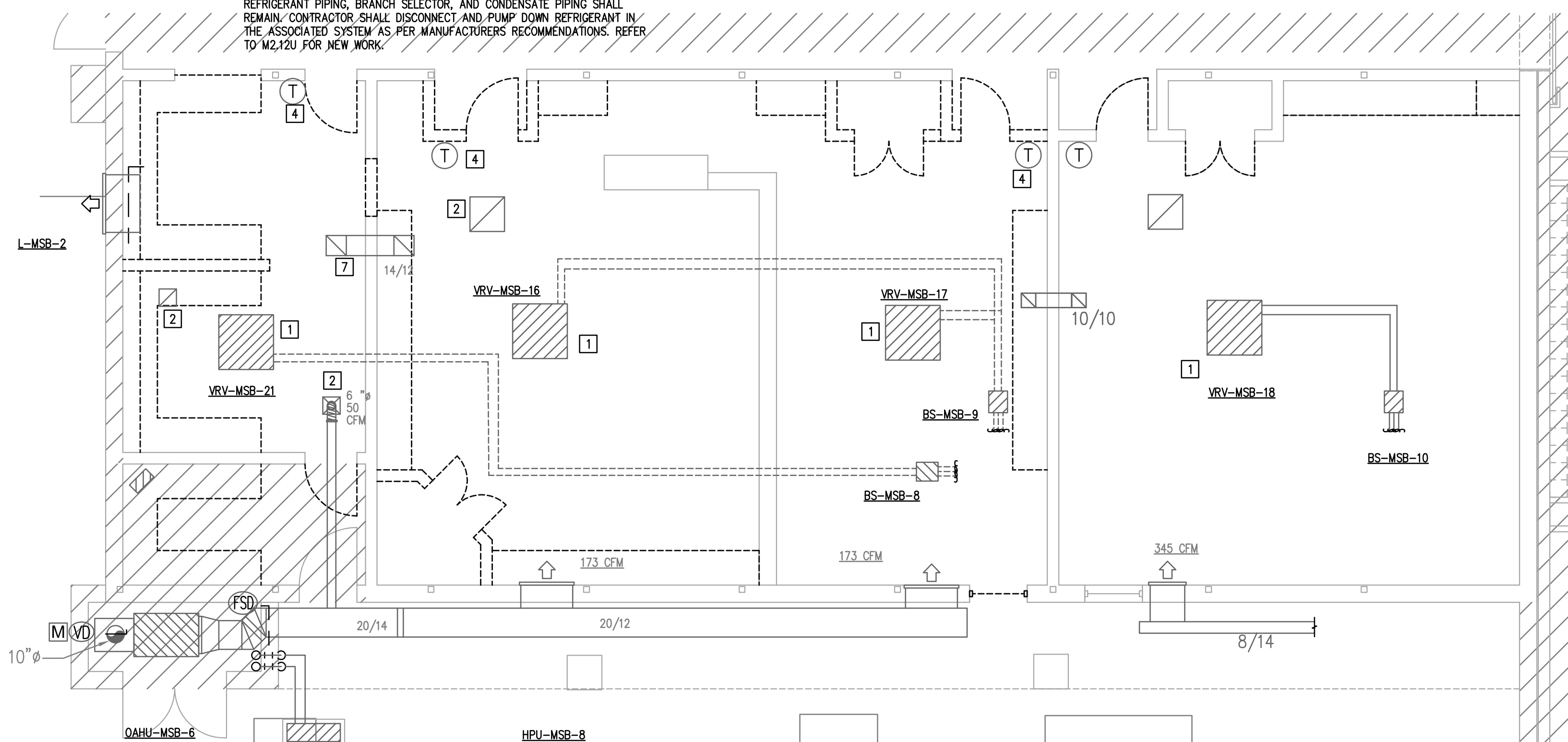
- COORDINATE DEMOLITION WORK WITH ELECTRICAL AND OTHER DISCIPLINES AS REQUIRED.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE VERIFIED EXISTING JOBSITE CONDITIONS DURING THE BIDDING PERIOD. SO THEY WILL HAVE DISCOVERED THE FULL SCOPE OF WORK INVOLVED WITH THE MODIFICATION OF THIS EXISTING SPACE. THE SCOPE OF THE WORK SHALL INCLUDE ALL MATERIALS FOR A COMPLETE INSTALLATION INCLUDING DEVICES, EQUIPMENT, OR APPARATUS WHICH MUST BE RELOCATED, OR REMOVED EITHER TEMPORARILY OR PERMANENTLY, OR WHICH MUST BE PROVIDED TO ACCOMMODATE THE INDICATED REMODELING. NOT ALL EXISTING CONDITIONS ARE NECESSARILY INDICATED ON THE DRAWINGS. ALL HVAC SHOWN ARE TAKEN FROM AS-BUILT HARD COPY AND MUST BE FIELD VERIFIED.
- WHEN AN EQUIPMENT IS IDENTIFIED TO BE REMOVED, THE OWNER HAS FIRST RIGHT OF REFUSAL BEFORE DISPOSING OF THAT EQUIPMENT. PROVIDE DISTRICT ONE WEEK NOTICE PRIOR TO DEMOLITION.
- PROVIDE ALL NECESSARY CLEAR PATH TO MOVE DEMOLISHED EQUIPMENT OUT OF THE FACILITY AS WELL TO BRING NEW EQUIPMENT INTO THE BUILDING. MODIFY EXISTING PIPING, DUCTWORK CONDUTS, AS REQUIRED TO COMPLETE THE DEMOLITION.

## MECHANICAL DEMO KEYED NOTES

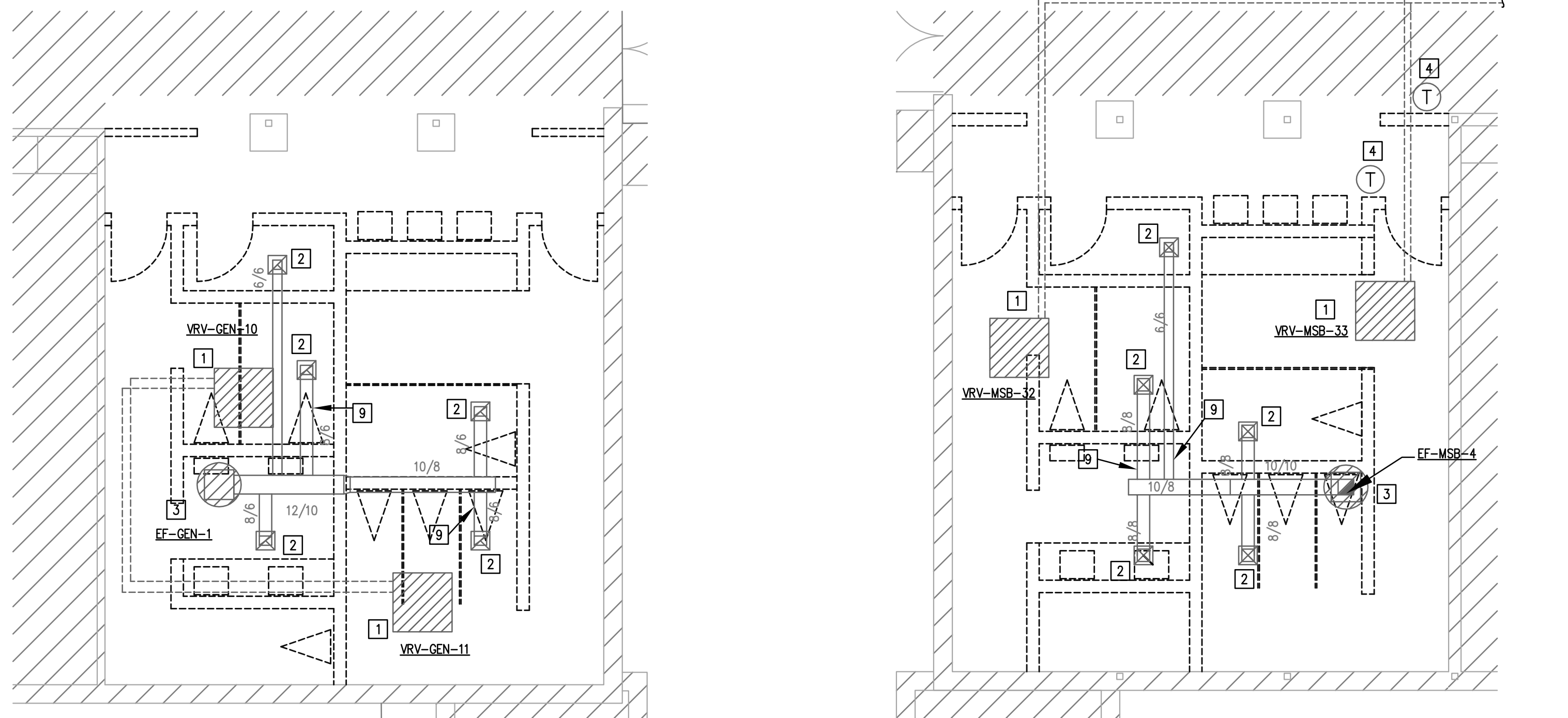
- EXISTING VRV UNIT SHALL BE RELOCATED TO NEW LOCATION. EXISTING ASSOCIATED REFRIGERANT PIPING, BRANCH SELECTOR, AND CONDENSATE PIPING SHALL REMAIN. CONTRACTOR SHALL DISCONNECT AND PUMP DOWN REFRIGERANT IN THE ASSOCIATED SYSTEM AS PER MANUFACTURERS RECOMMENDATIONS. REFER TO M2.12U AND M2.13U FOR NEW WORK.
- EXISTING AIR DEVICE SHALL BE REMOVED AND SALVAGED TO BE REUSED. TEMPORARILY CAP AND SEAL DUCTWORK. REFER TO M2.12U AND M2.13U FOR NEW WORK.
- EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK SHALL REMAIN. REFER TO M2.12U AND M2.13U FOR NEW WORK TO EXISTING DUCTWORK.
- EXISTING THERMOSTAT SHALL BE RELOCATED. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF THERMOSTAT. REFER TO M2.12U AND M2.13U FOR NEW LOCATION.
- EXISTING OAHU-MSB VRV UNIT SHALL BE RELOCATED. ALL ASSOCIATED MAIN SUPPLY AND OUTSIDE AIR SHALL BE RELOCATED. INTAKE HOOD ON ROOF SHALL REMAIN. CONTRACTOR SHALL BE RESPONSIBLE TO MAKE ALL A REQUIRED TRANSITIONS TO REROUTE OUTSIDE AIR DUCT BACK TO INTAKE HOOD. REMOVE ASSOCIATED BRANCH DUCTWORK TO ASSOCIATED AIR DEVICES. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS. REFER TO M2.12U FOR NEW WORK.
- EXISTING VRV SYSTEM AND AIR DEVICES SHALL BE RELOCATED. DUCTWORK SHALL BE RELOCATED IN ITS ENTIRETY AND MODIFIED. EXISTING ASSOCIATED REFRIGERANT PIPING, BRANCH SELECTOR, AND CONDENSATE PIPING SHALL REMAIN. CONTRACTOR SHALL DISCONNECT AND PUMP DOWN REFRIGERANT IN THE ASSOCIATED SYSTEM AS PER MANUFACTURERS RECOMMENDATIONS. REFER TO M2.12U FOR NEW SYSTEM LAYOUT AND NEW DUCTWORK MODIFICATIONS.
- EXISTING TRANSFER DUCT SHALL BE REMOVED AND SALVAGED TO BE RELOCATED. REFER TO M2.12U FOR NEW WORK.
- NOTE NOT USED.
- EXISTING BRANCH DUCTWORK SHALL BE REMOVED AND SALVAGED TO BE REUSED. CONTRACTOR SHALL SEAL AND INSULATE MAIN DUCTWORK. REFER TO M2.13U FOR NEW WORK AND NEW LOCATION ON MAIN DUCTWORK.
- EXISTING VRV CASSETTE SHALL BE REMOVED. EXISTING ASSOCIATED REFRIGERANT PIPING, BRANCH SELECTOR, AND CONDENSATE PIPING SHALL REMAIN. CONTRACTOR SHALL DISCONNECT AND PUMP DOWN REFRIGERANT IN THE ASSOCIATED SYSTEM AS PER MANUFACTURERS RECOMMENDATIONS. REFER TO M2.12U FOR NEW WORK.



5 ENLARGED MECHANICAL DEMOLITION PLAN  
MD2.12U 3/16"=1'-0"

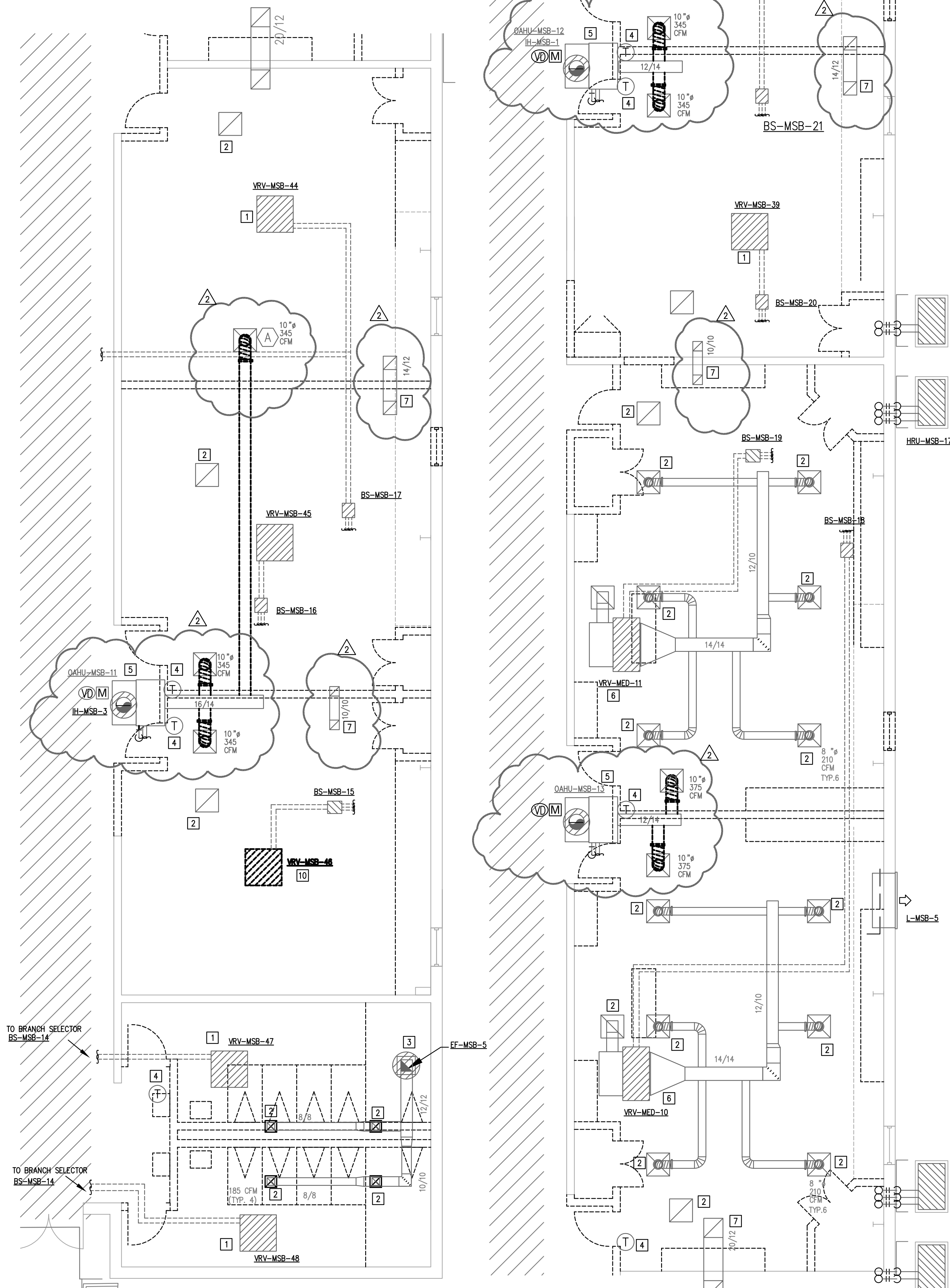


4 ENLARGED MECHANICAL DEMOLITION PLAN  
MD2.12U 3/16"=1'-0"

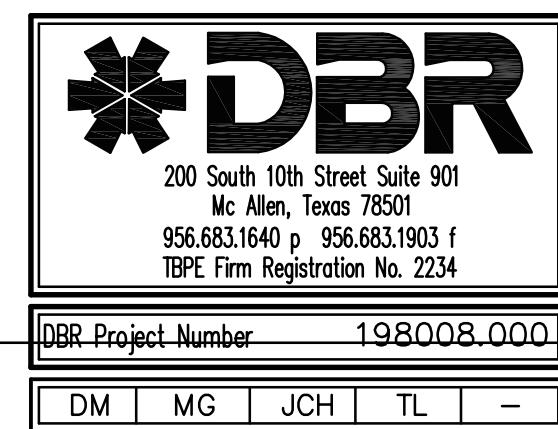


1 ENLARGED MECHANICAL DEMOLITION PLAN  
MD2.12U 3/16"=1'-0"

2 ENLARGED MECHANICAL DEMOLITION PLAN  
MD2.12U 3/16"=1'-0"



3 ENLARGED MECHANICAL DEMOLITION PLAN  
MD2.12U 3/16"=1'-0"



Consultants:

CIVIL:  
MELDEN & HUNT

STRUCTURAL:  
GREEN, RUBIANO &  
ASSOCIATES INC.

MEP:  
DBR ENGINEERING



PSJA ISD  
NORTH ECHS  
& COLLEGE  
AND  
UNIVERSITY  
CAMPUS  
STUDENT  
RESTROOM  
RENOVATIONS

## KEYPLAN

Project Number: 19.04  
Drawing Date: 5-10-2019  
Drawn: AL  
Checked: JM  
Scale: 1/4" = 1'-0"  
ACAD File: A-240-U

Revisions:  
2 Addendum #2 - 2019.5.28

Sheet Title:

COMPOSITE  
MECHANICAL  
DEMO PLAN -  
UNIV. CAMPUS

MD2.12U



**MEP:**  
MECHANICAL ELECTRICAL PLUMBING ENGINEERING



**COMPOSITE  
MECHANICAL  
PLAN -  
UNIV. CAMPUS**

## M2.12U



- A. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL LOCATION OF EQUIPMENT, DUCTS, AND GRILLES. IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS THAT COMPLETE MECHANICAL SYSTEMS BE PROVIDED, INSTALLED, TESTED, AND READY FOR OPERATION WHETHER OR NOT EVERY ITEM OF EQUIPMENT, ACCESSORY, DEVICE, ETC. IS SHOWN. REFERENCE SHALL BE MADE TO THE FULL DRAWING PACKAGE INCLUDING ARCHITECTURAL, STRUCTURAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR COORDINATION AND POTENTIAL CONFLICTS. THE MECHANICAL SUBCONTRACTOR SHALL, WITHOUT EXTRA CHARGE, MAKE REASONABLE MODIFICATIONS IN THE LAYOUT AS NECESSARY TO PREVENT CONFLICTS WITH OTHER TRADES, OR FOR PROPER EXECUTION OF THE WORK. FIELD VERIFY ALL DIMENSIONS BEFORE FABRICATING DUCTWORK.
- B. EQUIPMENT SIZES, DIMENSIONS, AND REQUIRED CONNECTIONS SHALL BE VERIFIED WITH THE MANUFACTURER'S DRAWINGS AND CUT SHEETS BEFORE FABRICATING DUCTWORK, PIPING, OR POURING OF HOUSEKEEPING PADS.
- C. ALL FLEXIBLE DUCTWORK SHALL NOT EXCEED 5 FEET TOTAL LENGTH.
- D. ALL DUCTWORK AND ASSOCIATED ACCESSORIES SHALL BE CONSTRUCTED TO MEET THE LATEST SMAGNA STANDARDS FOR LOW PRESSURE DUCTWORK.
- E. EXACT LOCATION OF GRILLES AND DAMPERS SHALL BE FIELD COORDINATED WITH OTHER TRADES TO AVOID CONFLICTS AND ALLOW ADEQUATE CLEARANCES.
- F. DIVISION 23 MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL POWER REQUIREMENTS.
- G. PROVIDE INSULATION FOR ALL PIPING AND DUCTWORK THAT MEETS THE LATEST EDITION OF IECC.
- H. PROVIDE AIRFOIL TYPE TURNING VANES IN ALL NEW 90 DEGREE ELBOWS.
- I. ALL CEILING MOUNTED AND WALL MOUNTED AIR DEVICES SHALL MATCH ADJACENT ARCHITECTURAL SURFACE. CONTRACTOR SHALL COORDINATE COLOR WITH ARCHITECT.
- J. ALL SUPPLY AIR TAPS TO DIFFUSERS AND GRILLES SHALL BE SUPPLIED WITH MANUAL VOLUME DAMPERS. PROVIDE VOLUME REGULATORS FOR DAMPERS LOCATED ABOVE ACCESSIBLE CEILING.
- K. DUCT DIMENSIONS INDICATED ON DRAWINGS ARE CLEAR INSIDE AIR STREAM DIMENSIONS.

- 1 NEW LOCATION OF RELOCATED VRY UNIT. CONTRACTOR SHALL EXTEND WITH NEW REFRIGERANT AND CONNECT TO CORRESPONDING REFRIGERANT PIPING. EXTEND WITH NEW CONDENSATE PIPING TO EXISTING CONDENSATE PIPING. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF CONDENSATE PIPING. CONTRACTOR SHALL COORDINATE EXACT LOCATION WITH ALL CEILING DEVICES. SUPPORT FROM STRUCTURE ABOVE.
- 2 NEW LOCATION OF SALVAGED AIR DEVICE. EXTEND WITH NEW DUCTWORK AS REQUIRED TO NEW LOCATION. BALANCE TO CFM AS NOTED ON PLAN.
- 3 CONNECT NEW DUCTWORK TO RELOCATED DUCTWORK. SIZE AS NOTED ON PLAN.
- 4 NEW LOCATION OF THERMOSTAT. MOUNT 48" A.F.F. COORDINATE EXACT HEIGHT AND LOCATIONS WITH OWNER AND ARCHITECT.
- 5 PROVIDE EXHAUST FAN ON ROOF AS SCHEDULED WITH PREFABRICATED ROOF CURB. ROUTE DUCTWORK UP AND TRANSPORT AS REQUIRED. COORDINATE ROUTING WITH ALL DISCIPLINES AND STRUCTURAL MEMBERS PRIOR TO INSTALLATION. RE: DETAIL 7/M4.0.U.
- 6 NEW LOCATION OF OUTSIDE AIR UNIT Q40U. CONTRACTOR SHALL ROUTE NEW OUTSIDE AIR DUCT TO ASSOCIATED INTAKE HOOD. PROVIDE NEW BRANCH DUCTWORK TO NEW LOCATION OF AIR DEVICES. CONTRACTOR SHALL TEST AND BALANCE UNIT AND OUTSIDE AIR AS REQUIRED. REFER TO PLAN FOR NEW CFM.
- 7 NEW LOCATION OF AIR TRANSFER BOOT.
- 8 NOTE NOT USED.
- 9 NEW LOCATION OF SALVAGED AIR DEVICE.
- 10 REFER TO M6.0.U FOR NEW REFRIGERANT PIPE CHARGE. CONTRACTOR SHALL CHARGE ENTIRE VRYV SYSTEM AS REQUIRED FOR A COMPLETE OPERATING SYSTEM. REFER TO MANUFACTURER RECOMMENDATIONS FOR CHARGE AND INSTALLATION OF VRYV SYSTEM.
- 11 PROVIDE NEW VRYV FAN COIL UNIT AS SCHEDULED ON M6.0.U TAG VRYV-MSB-46. CONNECT AND ROUTE REFRIGERANT PIPING TO EXISTING BRANCH SELECTOR. ROUTE CONDENSATE TO EXISTING CONDENSATE PIPING. SUSPEND FROM STRUCTURAL ABOVE.



May 28, 2019 - 8:21am User: mgarza  
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FAN SCHEDULE						
MARK				EF-UJ-4	EF-UJ-5	EF-UJ-6
SERVES				CHEM STO 115	CHEM STO 110	PREP RM 118
CFM				165	165	300
E.S.P. (IN W.G.)				0.375	0.375	0.375
TYPE				ROOF	ROOF	ROOF
DIRECT/BELT DRIVE				DIRECT	DIRECT	DIRECT
FAN RPM				1,725	1,725	1,725
MOTOR HORSEPOWER				1/6	1/6	1/6
VOLTS/PHASE/HERTZ				120/1/60	120/1/60	120/1/60
WEIGHT (LBS)				30	30	30
SONES				3.9	3.9	5.1
MANUFACTURER				COOK	COOK	COOK
MODEL NO.				90C17DEC	90C17DEC	90C17DEC
NOTES				1, 2, 3	1, 2, 3	1, 2, 3
NOTES: 1. PROVIDE WITH PRE-FABRICATED ROOF CURB (MINIMUM OF 12"). WEATHERPROOF DISCONNECT SWITCH, BACKDRAFT DAMPER, AND BIRD SCREEN. PROVIDE WITH ECM. 2. INTERLOCK WITH ASSOCIATED AIR HANDLING UNIT. 3. ALL ROOF CURBS MUST MEET THE WIND LOAD REQUIREMENTS BASED ON A MINIMUL OF 130 MPH OR GREATER IN OUR REGION. TYPICAL FOR ALL ROOF MOUNTED EQUIPMENT.						

AIR DEVICE SCHEDULE				
MARK	MANUFACTURER/MODEL	TYPE	NC	REMARKS
A	TITUS/TMS-AA	24"X24" SUPPLY	25	ALUMINUM CONSTRUCTION. NECK SIZES AS INDICATED BELOW UNLESS NOTED ON PLAN.
B	TITUS/50F	24"X24" EGGCRATE RETURN	20	ALUMINUM CONSTRUCTION. PROVIDE DAMPER FOR EXHAUST.
C	TITUS/TMS	12"X12" SUPPLY	25	STEEL CONSTRUCTION. NECK SIZES AS INDICATED BELOW UNLESS NOTED ON PLAN.
D	TITUS/50F	12"X12" EGGCRATE RETURN	20	ALUMINUM CONSTRUCTION. PROVIDE DAMPER FOR EXHAUST.
E	TITUS/300FS	SIDEWALL SUPPLY	25	ALUMINUM CONSTRUCTION. SEE MECHANICAL PLAN FOR SIZE.
F	TITUS/350FL	SIDEWALL RETURN	20	ALUMINUM CONSTRUCTION. PROVIDE DAMPER FOR EXHAUST. SEE MECHANICAL PLAN FOR SIZE.
NOTES: 1. PROVIDE STANDARD WHITE FINISH FOR ALL AIR DEVICES UNLESS NOTED OTHERWISE ON PLAN. 2. PAINT ALL SURFACES VISIBLE THROUGH FACE OF RETURN AIR GRILLES FLAT BLACK. THIS SHALL INCLUDE PIPING, CONDUIT, DUCTWORK, AND STRUCTURAL MEMBERS. 3. PROVIDE FRAME FOR MOUNTING AIR DEVICE IN LAY-IN GRID CEILING UNLESS REFLECTED CEILING PLAN INDICATES HARD CEILING. IN AREAS WITH HARD CEILINGS, PROVIDE FRAMES FOR SURFACE MOUNTING. PROVIDE REMOTE OPERATOR DAMPER AND CONTROL. 4. UNLESS OTHERWISE NOTED, BRANCH DUCTS SERVING AIR DEVICES SHALL BE SAME SIZE AS NECK OF AIR DEVICE. FOR ROUND NECK DIFFUSERS: 5. WHERE THERE IS NO ACCESS ABOVE CEILING, PROVIDE REMOTE OPERATED DAMPERS WITH THROUGH THE AIR DEVICE CONTROL. 6" DIA: 0-120 CFM 8" DIA: 125-220 CFM 10" DIA: 225-380 CFM 12" DIA: 385-600 CFM				

Consultants:

CIVIL:  
MELDEN & HUNT

STRUCTURAL:  
GREEN, RUBIANO &  
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MEP:  
DBR ENGINEERING



PSJA ISD  
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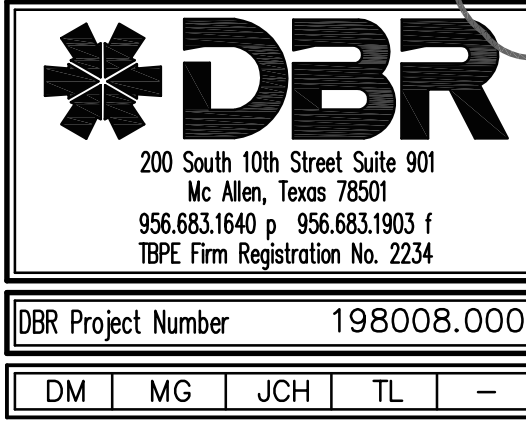
KEYPLAN

Project Number: 19.04  
Drawing Date: 5-10-2019  
Drawn: AL  
Checked: JM  
Scale: 1/4" = 1'-0"  
ACAD File: A-240-U

Revisions:  
2 Addendum #2 - 2019.5.28

Sheet Title:

MECHANICAL  
SCHEDULES



DBR Project Number		198008.000	
DM	MG	JCH	TL



DRY TYPE 3-PHASE TRANSFORMER FEEDER SCHEDULE									
PRIMARY VOLTAGE					SECONDARY VOLTAGE				
480V, THREE PHASE					120/208V, THREE PHASE, FOUR WIRE				
KVA	FEEDER	CONDUIT	BREAKER		FEEDER	CONDUIT	BREAKER	GND. ELEC. SIZE	
9	3 #12, 1 #12 GND.	3/4" C.	15A/3P		4 #10, 1 #10 GND.	3/4"	30A/3P	#8	
15	3 #10, 1 #10 GND.	3/4" C.	25A/3		4 #6, 1 #10 GND.	1"	60A/3P	#8	
30	3 #8, 1 #10 GND.	1" C.	45A/3P		4 #3, 1 #8 GND.	1 1/4"	100A/3P	#8	
45	3 #4, 1 #8 GND.	1 1/4" C.	70A/3P		4 #1/0, 1 #6 GND.	1 1/2"	150A/3P	#6	
75	3 #1, 1 #6 GND.	1 1/4" C.	125A/3P		4 #250KCMIL, 1 #6 GND.	3"	250A/3P	#2	
112.5	3 #2/0, 1 #6 GND.	1 1/2" C.	175A/3P		4 #500KCMIL, 1 #3 GND.	4"	400A/3P	#1/0	
150	3 #4/0, 1 #4 GND.	2" C.	225A/3P		(2) SETS OF 4 #250KCMIL, 1 #2 GND.	(2) 2 1/2"	500A/3P	#1/0	
225	3 #500KCMIL, 1 #3 GND.	3" C.	350A/3P		(2) SETS OF 4 #500KCMIL, 1 #1/0 GND.	(2) 3 1/2"	800A/3P	#3/0	
300	(2) SETS OF 3 #4/0, 1 #2 GND.	(2) 2 1/2" C.	450A/3P		(3) SETS OF 4 #500KCMIL, 1 #2/0 GND.	(3) 3 1/2"	1000A/3P	#3/0	
400	(2) SETS OF 3 #350 KCMIL, 1 #1 GND.	(2) 2 1/2" C.	600A/3P		(4) SETS OF 4 #500KCMIL, 1 #4/0 GND.	(4) 4"	1600A/1400AT/3P	#3/0	
500	(2) SETS OF 3 #500 KCMIL, 1 #1/0 GND.	(2) 3" C.	800A/3P		(5) SETS OF 4 #500KCMIL, 1 #250KCMIL GND.	(5) 4"	2000A/1800AT/3P	#3/0	
750	(4) SETS OF 3 #350 KCMIL, 1 #3/0 GND.	(4) 2 1/2" C.	1200A/3P		(7) SETS OF 4 #500KCMIL, 1 #350KCMIL GND.	(7) 4"	2500A/3P	#3/0	

SPD SCHEDULE					
MARK	MANUFACTURER	MODEL	RATING PHASE TO PHASE	LIBERT ACCUGUIDE CABLE SIZE	
SPD 1	LIEBERT	560YC12ANCIG3	250 KA	5 #6, 1 1/2" C	
SPD 2	LIEBERT	510YA08ANA2S	160 KA	5 #10, 1 1/2" C	
SPD 3	LIEBERT	510YC08ANA2S	160 KA	5 #6, 1 1/2" C	

FEEDER SCHEDULE					
COPPER CONDUCTORS			ALUMINUM CONDUCTORS		
AMPERAGE	SETS	CONDUCTOR SIZE	CONDUIT (INCHES)	SETS	CONDUCTOR SIZE
30A	1	4#10, 1#10 G.	3/4" C	1	N/A
40A	1	4#8, 1#10 G.	1" C	1	N/A
50A	1	4#6, 1#10 G.	1" C	1	N/A
60A	1	4#6, 1#10 G.	1" C	1	N/A
70A	1	4#4, 1#8 G.	1 1/4" C	1	N/A
80A	1	4#4, 1#8 G.	1 1/4" C	1	N/A
90A	1	4#3, 1#8 G.	1 1/4" C	1	N/A
100A	1	4#3, 1#8 G.	1 1/4" C	1	N/A
125A	1	4#1, 1#6 G.	1 1/2" C	1	N/A
150A	1	4#1/0, 1#6 G.	1 1/2" C	1	N/A
175A	1	4#2/0, 1#6 G.	2" C	1	N/A
200A	1	4#3/0, 1#6 G.	2" C	1	4#250KCMIL, 1#4G.
225A	1	4#4/0, 1#4 G.	2 1/2" C	1	4#300KCMIL, 1#2G.
250A	1	4#250KCMIL, 1#4 G.	2 1/2" C	1	4#350KCMIL, 1#2G.
300A	1	4#350KCMIL, 1#4 G.	3" C	1	4#500KCMIL, 1#2G.
350A	1	4#500KCMIL, 1#3 G.	3 1/2" C	2	4#4/0, 1#1G.
400A	1	4#500KCMIL, 1#3 G.	4" C	2	4#500KCMIL, 1#1G.
450A	2	4#4/0, 1#2 G.	2 1/2" C	2	4#300KCMIL, 1#1/0G.
500A	2	4#250KCMIL, 1#2G.	2 1/2" C	2	4#350KCMIL, 1#1/0G.
600A	2	4#350KCMIL, 1#1G.	3" C	2	4#500KCMIL, 1#2/0G.
700A	2	4#500KCMIL, 1#1/0G.	4" C	3	4#350KCMIL, 1#3/0G.
800A	2	4#600KCMIL, 1#1/0G.	4" C	3	4#400KCMIL, 1#3/0G.
1000A	3	4#500KCMIL, 1#2/0G.	4" C	4	4#350KCMIL, 1#4/0G.
1200A	4	4#350KCMIL, 1#3/0G.	3" C	4	4#500KCMIL, 1#250KCMIL G.
1600A	4(600) OR 5(500)	4#600KCMIL, 1#4/0G. OR 4#500KCMIL, 1#4/0G.	4" C	5	4#750KCMIL, 1#350KCMIL G.
2000A	5(600) OR 6(500)	4#600KCMIL, 1#250KCMIL G. OR 4#500KCMIL, 1#250KCMIL G.	4" C	6	4#750KCMIL, 1#400KCMIL G.
2500A	6(600) OR 7(500)	4#600KCMIL, 1#350KCMIL G. OR 4#500KCMIL, 1#350KCMIL G.	4" C	7	4#750KCMIL, 1#600KCMIL G.
3000A	8(500)	4#500KCMIL, 1#400KCMIL G.	4" C	8	4#750KCMIL, 1#600KCMIL G.
3500A	9(600) OR 10(500)	4#600KCMIL, 1#500KCMIL G. OR 4#500KCMIL, 1#500KCMIL G.	4" C	10	4#750KCMIL, 1#750KCMIL G.
4000A	10(600) OR 11(500)	4#600KCMIL, 1#500KCMIL G. OR 4#500KCMIL, 1#500KCMIL G.	4" C	11	4#750KCMIL, 1#750KCMIL G.
5000A	12(600) OR 14(500)	4#600KCMIL, 1#700KCMIL G. OR 4#500KCMIL, 1#700KCMIL G.	4" C	13	4#750KCMIL, 2#600KCMIL G.

- ALUMINUM CONDUCTORS SHALL BE COMPRESSION TYPE CONDUCTORS AND SHALL USE PENETROX WITH COMPRESSION TERMINATION FITTINGS.
- ALUMINUM FEEDERS ARE NOT APPROVED FOR USE ON THE FOLLOWING:
  - CHILLERS
  - TRANSFORMER SECONDARY
  - ELEVATORS
  - VARIABLE FREQUENCY DRIVE
- ELECTRICAL CONTRACTOR SHALL PROVIDE THE NUMBER OF LUGS AND PROPER LUG SIZES TO ACCEPT CONDUCTOR SIZES SHOWN.
- GROUND NOT REQUIRED AT SERVICE LATERAL.
- ALUMINUM CONDUCTORS MAY BE USED FOR FEEDERS RATED FOR GREATER THAN 200 AMPS EXCEPT FOR EQUIPMENT LOADS. ALL MOTORS, CHILLERS, ETC. SHALL REQUIRE THE USE OF COPPER CONDUCTORS ONLY.

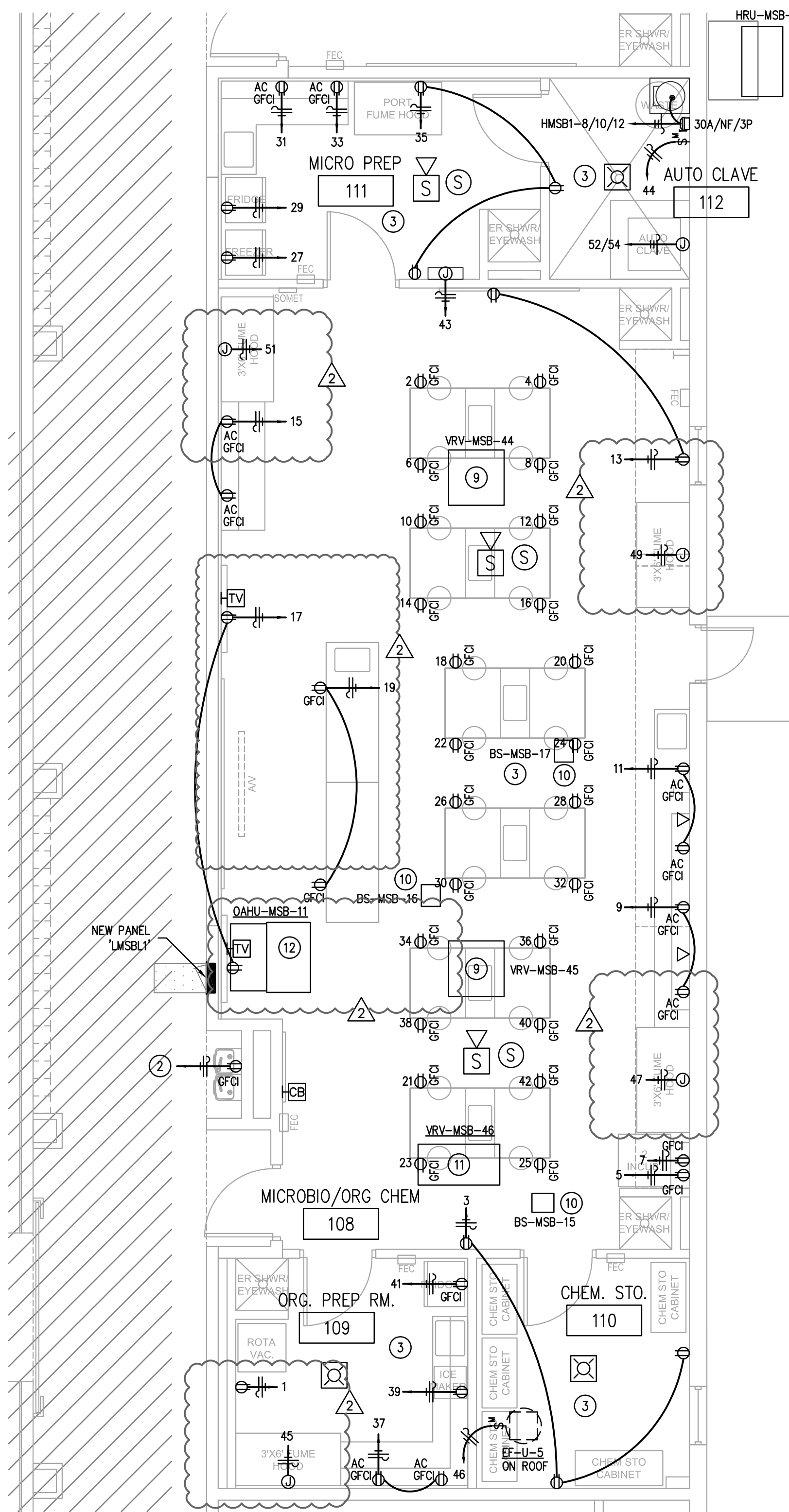
Panelboard DP3A									
42,000 AIC Rating Existing X New									
120/208 Volt, 3-Phase, 4-Wire 1 Section 1 -Nema Rating					X Single Double Feed - Thru				
Notes	Load (VA)	Description	Type	Wire	CB	OKT #	PH #	OKT #	CB
	12810	PANEL 'LMSBL1'	SP	3/0	200/3	1 A 2	1 A 2	1 A 2	11300
	18238		SP			3 B 4	3 B 4	3 B 4	11828
	17080		SP			5 C 6	5 C 6	5 C 6	11300
	10900		SP			7 A 8	7 A 8	7 A 8	6108
	10860	PANEL 'LMSBL3'	SP	3	100/3	9 B 10	9 B 10	9 B 10	5760
	10380		SP			11 C 12	11 C 12	11 C 12	5580
		SPACE				13 A 14	13 A 14	13 A 14	
		SPACE				15 B 16	15 B 16	15 B 16	
		SPACE				17 C 18	17 C 18	17 C 18	
	60,198	Subtotal							51,876
N.E.C. (2011)	Load Type	Conn.	Fct.	Diversity	N.E.C. (2011)	Load Type	Conn.	Fct.	Diversity
220.44	(R) Recept.	0	100%	0	220.12	(L) Lighting	0	125%	0
220.56	(K) Kitchen	0	0%	0	220.12	(E) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	0	100%	0	220.5	(MT) Lrg. Mot.	0	125%	0
630.11	(W) Welders	0	0%	0		(SP) Sub Panel	0	100%	0
	(M) Misc.	0	100%	0					
Total Connected Load = 132,074 VA = 366.9 AMPS					Location of Panel:				
Total Load (Diversified) = 132,074 VA = 366.9 AMPS									

Panelboard LMSBL3									
10,000 AIC Rating Existing X New									
120/208 Volt, 3-Phase, 4-Wire 1 Section 1 -Nema Rating					X Single Double Feed - Thru				
Notes	Load (VA)	Description	Type	Wire	CB	OKT #	PH #	OKT #	CB
	900	RM116-FRONT COUNT.	R	12	20/1	1 A 2	20/1	12	R
	900	RM116-FRONT COUNT.	R	12	20/1	3 B 4	20/1	12	R
	900	RM116-TEACHERS STA.	R	12	20/1	5 C 6	20/1	12	R
	720	RM116-TVS	R	12	20/1	7 A 8	20/1	12	R
	900	RM116-REAR COUNT.	R	12	20/1	9 B 10	20/1	12	R
	900	RM116-REAR COUNT.	R	12	20/1	11 C 12	20/1	12	R
	900	RM116-REAR COUNT.	R	12	20/1	13 A 14	20/1	12	R
	900	RM116-STUDENT STA.	R	12	20/1	15 B 16	20/1	12	R
	900	RM116-STUDENT STA.	R	12	20/1	17 C 18	20/1	12	R
	900	RM116-STUDENT STA.	R	12	20/1	19 A 20	20/1	12	R
	360	PREP114	R	12	20/1	21 B 22	20/1	12	R
	360	PREP114	R	12	20/1	23 C 24	20/1	12	R
	500	DI-1	R	12	20/1	25 A 26	20/1	12	R
	500	DI-1	MT	12	20/1	27 B 28	20/1	12	R
	500	WBSU-1	R	12	20/1	29 C 30	20/1	12	R
	488	LAB-UNLIFY-CONTROL	M	12	20/1	31 A 32	20/1	12	R
	500	FUME HOOD	M	12	20/1	33 B 34	20/1	12	R
	500	FUME HOOD	M	12	20/1	35 C 36	20/1	12	R
	500	FUME HOOD	M	12	20/1	37 A 38	20/1	12	R
	500	FUME HOOD	M	12	20/1	39 B 40	20/1	12	R
		SPARE BREAKER		12	20/1	41 C 42	20/1	12	R
	13,220	Subtotal							18,900
N.E.C. (2011)	Load Type	Conn.	Fct.	Diversity	N.E.C. (2011)	Load Type	Conn.	Fct.	Diversity
220.44	(R) Recept.	28,440	0	19,720	220.12	(L) Lighting	0	125%	0
220.56	(K) Kitchen	0	100%	0	220.12	(E) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	0	100%	0	220.5	(MT) Lrg. Mot.	500	125%	625
630.11	(W) Welders	0	0%	0		(SP) Sub Panel	0	100%	0
	(M) Misc.	2,180	100%	2,180					
Total Connected Load = 32,120 VA = 89.2 AMPS					Location of Panel:				
Total Load (Diversified) = 22,525 VA = 62.6 AMPS									

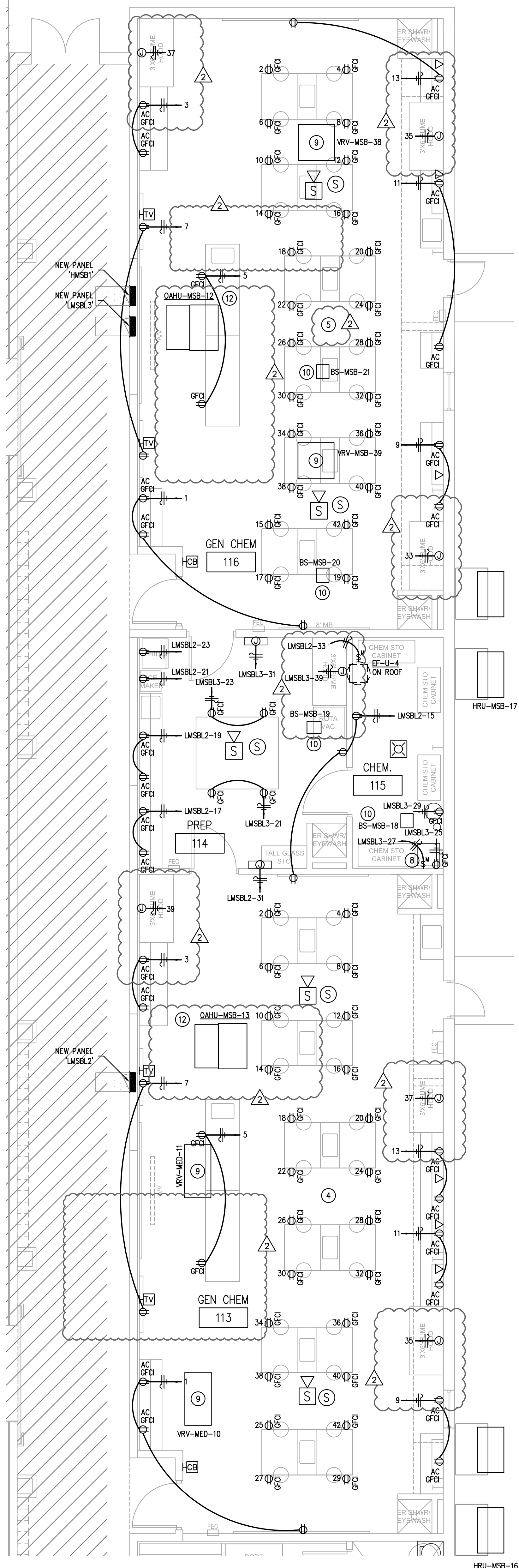
Panelboard LMSBL4													10,000 AIC Rating		
													Existing		
													X New		
120/208 Volt, 3-Phase, 4-Wire 1 Section 1-Nema Rating					MCB X MLO		100 AMP MCB AMP BUS (Copper)		X		Single Double Feed - Thru		Mounting Surface X Flush		
Notes	Load (VA)	Description	Type	Wire	CB	OKT #	PH #	OKT #	CB	Wire	Type	Description	Load (VA)	Notes	
	720	RM116	R	12	20/1	1	A	2	20/1	12	R	RM122-COMPUTERS	720		
	900	RM116-ICE MAKER	R	12	20/1	3	B	4	20/1	12	R	RM122-COMPUTERS	720		
	900	RM116-REFRIGERATOR	R	12	20/1	5	C	6	20/1	12	R	RM122-COMPUTERS	720		
	180	RM117-FRONT COUNT.	R	12	20/1	7	A	8	20/1	12	R	RM122-COMPUTERS	720		
	180	RM117-FRONT COUNT.	R	12	20/1	9	B	10	20/1	12	R	RM122-COMPUTERS	720		
	360	RM117-TEACHERS STA.	R	12	20/1	11	C	12	20/1	12	R	RM122-COMPUTERS	720		
	720	RM117-STUDENT STA.	R	12	20/1	13	A	14	20/1	12	R	RM122-COMPUTERS	720		
	720	RM117-STUDENT STA.	R	12	20/1	15	B	16	20/1	12	R	RM122-COMPUTERS	720		
	720	RM117-STUDENT STA.	R	12	20/1	17	C	18	20/1	12	R	RM122-COMPUTERS	720		
	720	RM117-STUDENT STA.	R	12	20/1	19	A	20	20/1	12	R	RM122-COMPUTERS	720		
	720	RM117-STUDENT STA.	R	12	20/1	21	B	22	20/1	12	R	RM122-COMPUTERS	720		
	720	RM117-STUDENT STA.	R	12	20/1	23	C	24	20/1	12	R	RM122-COMPUTERS	720		
	360	RM117	R	12	20/1	25	A	26	20/1	12	MT	EF-U-6	528		
	360	RM117	R	12	20/1	27	B	28	20/1	12		SPARE BREAKER			
		SPARE BREAKER		12	20/1	29	C	30	20/1	12		SPARE BREAKER			
		SPARE BREAKER		12	20/1	31	A	32	20/1	12		SPARE BREAKER			
		SPARE BREAKER		12	20/1	33	B	34	20/1	12		SPARE BREAKER			
		SPARE BREAKER		12	20/1	35	C	36	20/1	12		SPARE BREAKER			
		SPARE BREAKER		12	20/1	37	A	38	20/1	12		SPARE BREAKER			
		SPARE BREAKER		12	20/1	39	B	40	20/1	12		SPARE BREAKER			
		SPARE BREAKER		12	20/1	41	C	42	20/1	12		SPARE BREAKER			
	8,280	Subtotal										Subtotal	9,168		
N.E.C. (2011)	Load Type	Conn.	Fct.	Diversity	N.E.C. (2011)	Load Type	Conn.	Fct.	Diversity						
220.56	(R) Recept.	16,820		13,460	220.12	(L) Lighting	0		125%	0					
220.56	(K) Kitchen	0	100%	0	220.12	(EL) Ext. Lig.	0		125%	0					
220.60	(C) Cooking	0	0%	0	620.14	(E) Elevators	0		100%	0					
220.60	(H) Heating	0	0%	0		(W) Water He. H.	0		100%	0					
220.60	(F) Fans	0	100%	0	220.5	(MT) Lrg. Mot.	528		125%	660					
630.11	(W) Welders	0				(SP) Sub Panel	0		100%	0					
	(M) Misc.	0													
Total Connected Load =					17,448 VA =	48.5 AMPS					Location of Panel:				
Total Load (Diversified) =					14,120 VA =	39.2 AMPS									



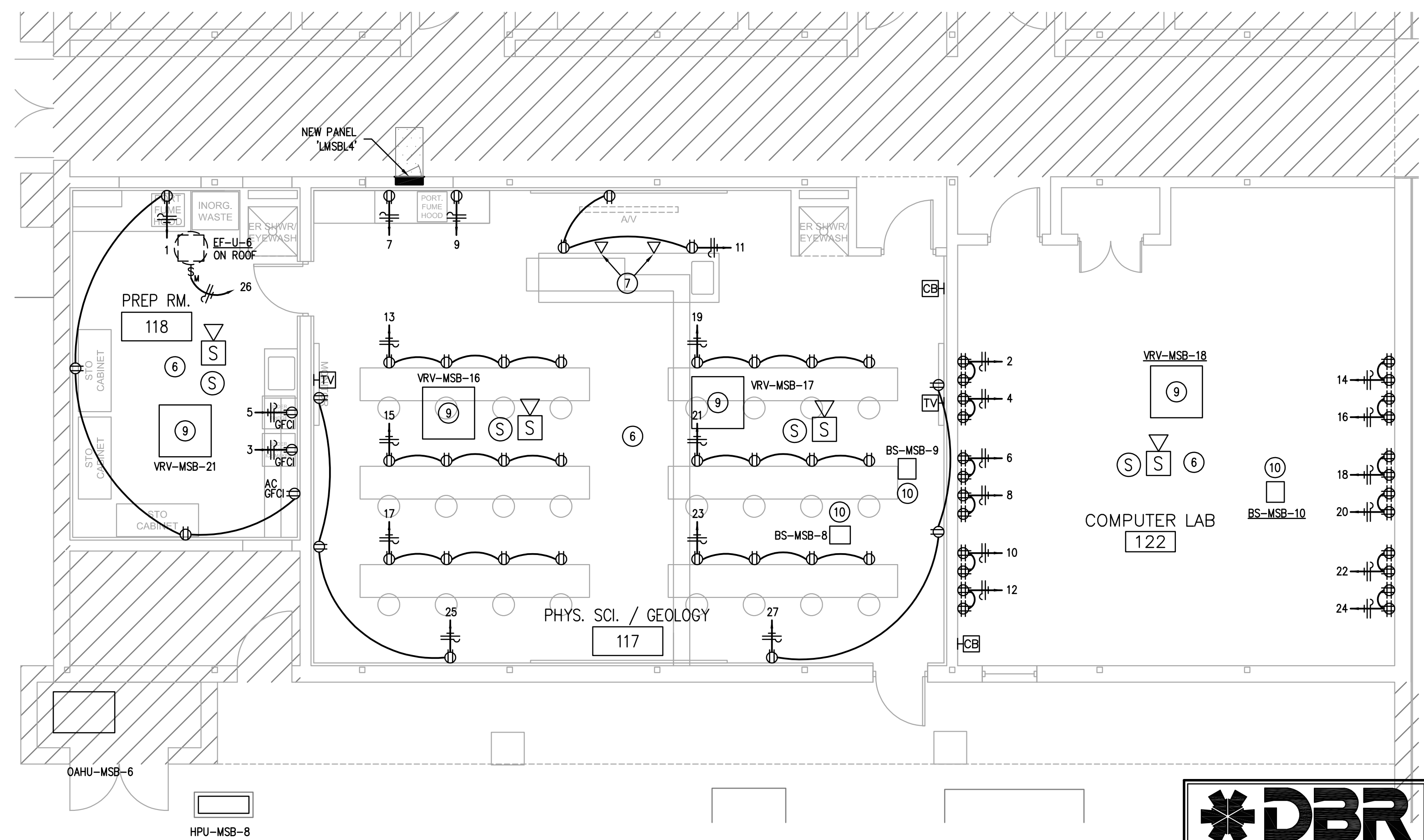
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1 ENLARGED ELECTRICAL PLAN  
EP2.12U 3/16"=1'-0"



2 ENLARGED ELECTRICAL PLAN  
EP2.12U 3/16"=1'-0"



3 ENLARGED ELECTRICAL PLAN  
EP2.12U 3/16"=1'-0"

#### GENERAL NOTES:

- ELECTRICAL CONTRACTOR SHALL GROUP HOMERUNS WITH THREE HOTS (A,B, AND C PHASE), AND #10 NEUTRAL TO PROVIDE MULTI-WIRE BRANCH CIRCUITS. NO MORE THAN 2 MULTI-WIRE HOMERUNS PER CONDUIT.
- CONTRACTOR SHALL VERIFY DEVICE LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN. REFER TO ARCHITECTURAL CASEWORK AND MILLWORK ELEVATIONS.
- ELECTRICAL CONTRACTOR SHALL REFERENCE TECHNOLOGY DRAWINGS FOR ADDITIONAL CONDUIT AND BOX BOX REQUIREMENTS. DIVISION 26 SHALL PROVIDE ALL PATHWAYS FOR LOW VOLTAGE SYSTEMS. DIVISION 26 CONTRACTOR SHALL COORDINATE WITH DIVISION 27 AND 28 CONTRACTORS FOR PATHWAY AND ROUGH-IN NEEDS.
- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR FOR ALL EXHAUST FAN CONTROLS. PROVIDE A FAN SWITCH IF INDICATED BY MECHANICAL. ALL EXHAUST FANS SHALL BE PROVIDED WITH BUILT-IN DISCONNECT SWITCH.
- HVAC AND PLUMBING EQUIPMENT MAY DIFFER FROM LOCATIONS AS SHOWN ON ELECTRICAL DRAWINGS. COORDINATE EXACT LOCATIONS WITH MECHANICAL AND PLUMBING CONTRACTOR.
- ALL RECEPTACLES MOUNTED ABOVE COUNTERS AND WITHIN 6 FEET OF SINKS OR LAVATORIES SHALL BE GFCI TYPE.
- PROVIDE A DEDICATED HOT, NEUTRAL, AND GROUND FOR ALL COPY MACHINES.
- CONTRACTOR SHALL PROVIDE HANDLE TIES MANUFACTURED BY THE SWITCH GEAR SUPPLIER ON ALL MULTI-WIRE CIRCUITS TO MEET THE REQUIREMENTS OF ARTICLE 210.4(B) OF THE 2011 NEC. AT THE CONTRACTOR'S OPTION, TWO AND THREE POLE BREAKERS MAY BE USED.
- CONTRACTOR SHALL INDICATE CIRCUIT SERVING EACH RECEPTACLE BY PROVIDING TYPE WRITTEN LABELING LOCATED ON INSIDE FACE OF EACH RECEPTACLE COVER PLATE.
- ELECTRICAL CONTRACTOR SHALL ROUTE ELECTRICAL CONDUIT AND WIRING TO ALL ROOF HVAC EQUIPMENT THROUGH ROOF CURBS. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- MECHANICAL CONTRACTOR SHALL FURNISH INTEGRAL DISCONNECT SWITCH FOR ALL MECHANICAL EQUIPMENT. ELECTRICAL CONNECTIONS SHALL BE PROVIDED BY DIVISION 26.
- PROVIDE JUNCTION BOX AND POWER FOR ALL HARD WIRED PLUMBING FLUSH VALVES AND SENSOR EQUIPMENT TRANSFORMERS FROM NEAREST 120V/208A CIRCUIT. COORDINATE WITH PLUMBER PRIOR TO ROUGH-IN FOR EXACT LOCATION.
- ALL RECEPTACLES LOCATED IN RESTROOMS, JANITOR CLOSETS, MECHANICAL ROOMS, ELEVATOR PITTS OR SHAFTS, ELEVATOR EQUIPMENT ROOMS, SERVING ELECTRO DRINKING FOUNTAINS OR VENDING MACHINES, LOCATED WITHIN 6' OF A SINK, LOCATED ABOVE A WET COUNTERTOP OR IN A KITCHEN OR COFFEE BAR SHALL BE GFCI. EACH GFCI PROTECTED RECEPTACLE SHARING THE SAME CIRCUIT SHALL HAVE ITS OWN RE-SET AND TEST BUTTON.
- POWER TO RECEPTACLE DEVICES AT STUDENT STATIONS SHALL COME FROM BELOW SLAB. ROUTE CONDUIT IN SAME TRENCH AS PLUMBING UTILITIES AND STUB INTO FURNITURE STORAGE SPACE. REFER TO ARCHITECTURAL MILLWORK DETAILS FOR STUB UP LOCATION.

#### KEYED NOTES:

- #12 WIRE, 3/4" TO NEAREST PANEL. PROVIDE NEW 20A/1P BREAKER AS REQUIRED.
- CONNECT TO EXISTING ELECTRICAL WATER COOLER CIRCUIT. FIELD VERIFY.
- ALL CIRCUIT IN THIS SPACE ARE FED FROM PANEL 'LMSBL1'.
- ALL CIRCUIT IN THIS SPACE ARE FED FROM PANEL 'LMSBL2'.
- ALL CIRCUIT IN THIS SPACE ARE FED FROM PANEL 'LMSBL3'.
- ALL CIRCUIT IN THIS SPACE ARE FED FROM PANEL 'LMSBL4'.
- PROVIDE SINGLE GANG BOX, 1" CONDUIT WITH PULL STRING FOR INSTALLATION OF DATA DEVICES, DEVICES AND CABLING INSTALLED BY SCHOOL DISTRICT. CONDUIT SHALL BE ROUTED BELOW SLAB. COORDINATE ROUTING WITH OTHER TRADES.
- PROVIDE FLEXIBLE, LIQUID TIGHT CONNECTION TO PUMP.
- EXTEND CONDUIT AND CIRCUIT WIRING TO RELOCATE VRV CASSETTE.
- EXISTING BRANCH SELECTORS TO REMAIN.
- CONNECT NEW VRV-MSB-48 EQUIPMENT TO EXISTING DISCONNECT AND CIRCUIT. EXTEND CONDUIT AND CIRCUIT WIRING AS REQUIRED.
- TYPICAL OF ALL OUT SIDE AIR UNITS. RELOCATE DISCONNECT WITH UNIT AND EXTEND ELECTRICAL CIRCUIT AS REQUIRED. COORDINATE UNIT LOCATION WITH MECHANICAL CONTRACTOR.

Consultants:

CIVIL:  
MELDEN & HUNT

STRUCTURAL:  
GREEN, RUBIANO &  
ASSOCIATES INC.

MEP:  
DBR ENGINEERING



PSJA ISD  
NORTH ECHS  
& COLLEGE  
AND  
UNIVERSITY  
CAMPUS  
STUDENT  
RESTROOM  
RENOVATIONS

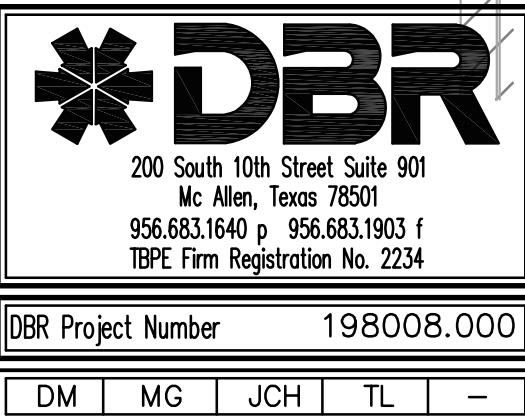
#### KEYPLAN

Project Number: 19.04  
Drawing Date: 5-10-2019  
Drawn: AL  
Checked: JM  
Scale: 1/4" = 1'-0"  
ACAD File: A-240-U

Revisions:  
2 Addendum #2 - 2019.5.28

Sheet Title:

ENLARGED  
ELECTRICAL  
POWER PLANS  
- UNIV. CAMPUS



EP2.12U