



REQUEST FOR PROPOSALS

**KIPP NYC Public Charter Schools
Commonly known as 'KIPP NYC Schools'**

New Teaching Wall Whiteboards & Classroom Projector/Sound Bar Replacement Summer 2019

Bid Responses Due No Later than Monday, March 11, 2019
For work to be completed no later than July 30, 2019, pending district approval
Submit intent to bid no later than Monday, March 4, 2019

Questions and responses must be sent via email to TechBids@kippnyc.org.
For more information about our schools, visit www.kippnyc.org.

Published
February 25, 2019

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I. Summary

KIPP NYC Schools, a network of public charter schools located in New York City, serves approximately 5022 students in grades K-12 and 1366 alumni. The organization includes 13 current schools, with 2 additional schools opening in summer 2019, 1 central administrative Shared Services Team office with an office located in midtown, and 1 college support program called KIPP Through College, with an office located in the Bronx. More details about KIPP NYC are at www.kippnyc.org.

Classroom teachers at KIPP NYC utilize technology on a daily basis to deliver instruction. Every classroom has a wall-mounted or ceiling-mounted projector and document camera, as well as a 'Teaching Wall' for the projection. Every teacher is issued a KIPP NYC-supported laptop; most also opt for a KIPP NYC-supported cell phone. Students use technology on daily basis, with most schools utilizing Chromebooks heavily.

KIPP NYC has approximately 292 projectors currently installed across our 13 schools; the new schools opening in summer 2019 will also have projectors installed in every classroom.¹ The Appendices of this document outline requirements for the classroom whiteboard installations and projection upgrades planned for summer of 2019 for 3 of our 13 existing schools. The summer 2019 work is the 2nd year of a 5-year initiative to upgrade and standardize classroom projection at all 13 existing schools. The goal of the 5-year initiative is to implement (across all classrooms) pen-touch interactive projection, 16:10 display on that projection, and enhanced sound via a Bluetooth-capable sound bar attached to the projectors. The 5-year initiative will also address lifecycle replacement needs at all campuses.

II. Basic Bidding Requirements & Guidelines

Line No.	Item Description
1	All bids must include line item pricing, breaking out materials, labor, shipping, etc. See Appendices for details by room number at each location. Bidders can bid on all or part of work. Prevailing wage rates apply to all projects herein.
2	Vendors must adhere to the New York City Department of Education's Division of School Facilities' Dust Protocol as well as other norms established by the Division of School Facilities.
3	All vendors bidding on the installation of the whiteboards must provide a fully vendor-managed solution for warehousing whiteboards off campus until start of installation. Vendor must also provide a fully vendor-managed solution for delivery to the correct rooms as per the scope requirements. The bid response must include information regarding the vendor-managed solution for warehousing and delivery.

¹The RFP for the new schools' projection work will be released at a later date.

	There is no space for storage of the whiteboards on campus prior to the start of the installation work. The installation work will start toward the end of the last week of June 2019. All installation work must be fully complete by July 30, 2019.
4	All vendors bidding on the projector/sound bar installation work must demonstrate a record of success with installation and calibration of Epson projectors and standard sound bars. KIPP NYC will procure and provide the projectors and sound bar, using a make and model of KIPP NYC's choice. The projection installation vendor is responsible for determining the room fit for the final installation based on the manufacturer guides and the room measurements (rooms vary). In the bid responses, evidence of success with installing and configuring Epson projectors can be demonstrated in 1-3 of the following ways: <ol style="list-style-type: none"> 1. Written validation from Epson, 2. Via written references provided as part of the bid package, 3. Photographic Evidence from recent installs
5	The Appendices refer to whiteboard sizing. <ol style="list-style-type: none"> 1. The Standard Room whiteboard sizes for all rooms (one 5'x5' on left, one 5'x8' centered, one 5'x5' on right). Install vendor would need to modify the sizing during installation to accommodate rooms with smaller areas for installation. 2. Non-Standard Rooms' whiteboards based on custom sizes detailed in the room-by-room information in the Appendices. In the Option 2 approach, the middle board will usually be 5'x8' and then the left and right board sizes would vary. See details in Appendices. 3. Vendor is expected to install whiteboards and projectors as specified in the Appendices.

III. Technical Requirements & Considerations

Line No.	Item
1	At KIPP NYC, we refer to the wall with the whiteboards and projector as the 'Teaching Wall.' Each Teaching Wall typically has 3 whiteboards installed – a larger one in the center, for the display of the projection, and two smaller boards, one on each side of the centered board.
2	All whiteboards must be <u>5 feet tall</u> . Widths vary per the details in the Appendices. The 5' tall height is required to meet KIPP NYC's projection requirements (attaining approximately 100" diagonal on projected image).
3	All whiteboards must be magnetic.

4	Whiteboards construction should be of ceramic steel or similar highly durable material with demonstrated record of success and durability in K-12 school installations. Include all manufacturer product details and warranty information as part of the bid package.										
5	All whiteboards must be installed to the specific height from the floor as specified for the classrooms in the Appendices below.										
6	All whiteboards must be compatible with wall or ceiling-mounted interactive projectors.										
7	All whiteboards must have marker trays and be compatible with dry-erase markers and erasers. Whiteboards must have a demonstrated record of not ‘ghosting’ with repeated use of dry-erase markers and erasers.										
8	During install planning phase, AV vendor must provide recommendations for whiteboard install height based on room-specific needs, projector requirements, and room use case (elementary vs. middle school students). The vendor needs to provide recommendations/measurements in writing to the KIPP NYC Tech Team by room. The AV vendor and KIPP NYC Tech Team will jointly evaluate the recommendations prior to sign off and start of install work. *Note that ceiling heights in rooms vary across the campuses.										
9	<p>All projector installs must include installation of custom-cut raceways and installation, sound bars, connection, testing of AV cabling and sound per KIPP NYC’s standards. KIPP NYC will procure the sound bars and projectors. The vendors bidding here must supply the wiring, termination boxes, faceplates, raceway, patch cables, fitting, etc. Please note that most of the rooms require surface-mount installations due to the cinder block construction of the buildings.</p> <table border="1" data-bbox="342 1104 1281 1528"> <thead> <tr> <th data-bbox="342 1104 672 1157">Category</th> <th data-bbox="672 1104 1281 1157">Requirements</th> </tr> </thead> <tbody> <tr> <td data-bbox="342 1157 672 1224">Face Plate</td> <td data-bbox="672 1157 1281 1224">1 x USB-B Female, 1 x VGA Female, 1 x HDMI Female, 1 x 3.5mm Audio Female</td> </tr> <tr> <td data-bbox="342 1224 672 1325">Wiring (Between Projector & Face Plate)</td> <td data-bbox="672 1224 1281 1325">1 x USB, 1 x VGA, 1 x HDMI, 1 x 3.5mm Audio (1 x 3.5mm Audio from Projector audio-out to Sound bar audio-in)</td> </tr> <tr> <td data-bbox="342 1325 672 1392">Patch Cable (For computer to Face Plate)</td> <td data-bbox="672 1325 1281 1392">1 x USB, 1 x VGA, 1 x HDMI, 1 x 3.5mm Audio -- length 10' for all</td> </tr> <tr> <td data-bbox="342 1392 672 1528">Raceway</td> <td data-bbox="672 1392 1281 1528">No right-angle (90 degree) cuts, smooth rounded corners only MUST be anchored to surface using wall-material-appropriate screws, not just adhesive.</td> </tr> </tbody> </table>	Category	Requirements	Face Plate	1 x USB-B Female, 1 x VGA Female, 1 x HDMI Female, 1 x 3.5mm Audio Female	Wiring (Between Projector & Face Plate)	1 x USB, 1 x VGA, 1 x HDMI, 1 x 3.5mm Audio (1 x 3.5mm Audio from Projector audio-out to Sound bar audio-in)	Patch Cable (For computer to Face Plate)	1 x USB, 1 x VGA, 1 x HDMI, 1 x 3.5mm Audio -- length 10' for all	Raceway	No right-angle (90 degree) cuts, smooth rounded corners only MUST be anchored to surface using wall-material-appropriate screws, not just adhesive.
Category	Requirements										
Face Plate	1 x USB-B Female, 1 x VGA Female, 1 x HDMI Female, 1 x 3.5mm Audio Female										
Wiring (Between Projector & Face Plate)	1 x USB, 1 x VGA, 1 x HDMI, 1 x 3.5mm Audio (1 x 3.5mm Audio from Projector audio-out to Sound bar audio-in)										
Patch Cable (For computer to Face Plate)	1 x USB, 1 x VGA, 1 x HDMI, 1 x 3.5mm Audio -- length 10' for all										
Raceway	No right-angle (90 degree) cuts, smooth rounded corners only MUST be anchored to surface using wall-material-appropriate screws, not just adhesive.										
10	All projector installs must also include the final calibration of the Epson interactive projector for functioning of optimal projection through physical adjustment of projector. The Projector pen touch function must be set up and calibrated as well. <i>[KIPP NYC does not utilize the hand touch function available on Epson projectors.]</i>										
11	Vendor must label all Epson accessories (projectors, pens, pen box, battery charging unit) as well as faceplate of term box in each room post-install with the room number with typed labeling with strong adhesive. Vendor must also label sound bar & sound bar remote.										

12	Vendor must photograph final install and supply 1-2 photos per room via file sharing utility to KIPP NYC Tech Team.
13	Post-installation vendor must provide Excel spreadsheet of all room numbers and serial numbers of projectors installed within each room as part of turnover documentation.

IV. Customer and Financial References

Vendor must provide 3 valid customer references that can be available within 48hrs notice to discuss their experiences. The customer references should be relevant in size/nature to the customer.

Vendor must provide 3 financial references, in order to substantiate their ability to complete the projects in the desired time frame, based on areas such as: credit reports, financial history/statements, bank letter. All provided documentation must be dated no earlier than 60 days prior to bid submission date.

V. Format of Submission

Submit bids electronically by the Due Date to techbids@kipponyc.org. KIPP NYC will accept PDF and Excel formatting. Provide pricing by school, as well as a summary sheet showing pricing for all three projects by component and totals.

Appendix 1 – KIPP Infinity Elementary Details

Line #	Room #	Room Type	Category	Task	Area Details (Ideal Whiteboard Length)
1	203	Conference	Construction	Remove existing WMP and patch wall	
2	203	Conference	Construction	Remove existing raceway and patch wall	
3	203	Conference	Construction	Remove existing whiteboards and patch wall	
4	203	Conference	Technology	Install (1) 5x8 whiteboard (centered), install (2) 5x6 whiteboards (one on each side of centered whiteboard)	
5	203	Conference	Technology	Replace Projector on teaching wall	
6	203	Conference	Technology	Install soundbar	
7	208A	Classroom	Construction	Remove existing WMP and patch wall	9' 5"

8	208A	Classroom	Construction	Remove existing raceway and patch wall	
9	208A	Classroom	Construction	Remove existing whiteboards and patch wall	
10	208A	Classroom	Technology	Remove ceiling AP bracket & store	
11	208A	Classroom	Technology	Install (1) 5x8 whiteboard (centered)	Whiteboard mounted 26.5 inches from the floor
12	208A	Classroom	Technology	Replace Projector on teaching wall	
13	208A	Classroom	Technology	Install soundbar	
14	208C	Classroom	Construction	Remove existing WMP and patch wall	10'
15	208C	Classroom	Construction	Remove existing raceway and patch wall	
16	208C	Classroom	Technology	Move existing AP and mount on network gangbox	
17	208C	Classroom	Construction	Remove existing whiteboards and patch wall	
18	208C	Classroom	Technology	Install (1) 5x8 whiteboard (centered)	Whiteboard mounted 26.5 inches from the floor
19	208C	Classroom	Technology	Replace Projector on teaching wall	
20	208C	Classroom	Technology	Install soundbar	
21	208D	Classroom	Construction	Remove existing WMP and patch wall	10' 8"
22	208D	Classroom	Construction	Remove existing raceway and patch wall	
23	208D	Classroom	Construction	Remove existing whiteboards and patch wall	
24	208D	Classroom	Construction	Relocate/Remove wall-mounted fan	
25	208D	Classroom	Technology	Install (1) 5x8 whiteboard (centered)	Whiteboard mounted 26.5 inches from the floor
26	208D	Classroom	Technology	Replace Projector on teaching wall	
27	208D	Classroom	Technology	Install soundbar	
28	209	Classroom	Construction	Remove existing raceway and patch wall	13'
29	209	Classroom	Technology	Move existing AP and mount on network gangbox	
30	209	Classroom	Construction	Remove existing whiteboards and patch wall	
31	209	Classroom	Technology	Install (1) 5x8 whiteboard (centered)	Whiteboard mounted 26.5 inches from the floor
32	209	Classroom	Technology	Replace Projector on teaching wall	
33	209	Classroom	Technology	Install soundbar	
34	210A	Classroom	Construction	Remove existing raceway and patch wall	12' 4"

35	210A	Classroom	Technology	Move existing AP and mount on network gangbox	
36	210A	Classroom	Construction	Remove existing whiteboards and patch wall	
37	210A	Classroom	Technology	Install (1) 5x8 whiteboard (centered)	Whiteboard mounted 26.5 inches from the floor
38	210A	Classroom	Technology	Replace Projector on teaching wall	
39	210A	Classroom	Technology	Install soundbar	
40	210B	Classroom	Construction	Remove existing raceway and patch wall	25'
41	210B	Classroom	Construction	Remove existing whiteboards and patch wall	
42	210B	Classroom	Technology	Install (1) 5x8 whiteboard (centered), install (2) 5x6 whiteboards (one on each side of centered whiteboard)	Whiteboard mounted 26.5 inches from the floor
43	210B	Classroom	Technology	Replace Projector on teaching wall	
44	210B	Classroom	Technology	Install soundbar	
45	213	Classroom	Construction	Remove existing raceway and patch wall	11' 11"
46	213	Classroom	Construction	Remove existing whiteboards and patch wall	
47	213	Classroom	Technology	Install (1) 5x8 whiteboard (centered)	Whiteboard mounted 26.5 inches from the floor
48	213	Classroom	Technology	Replace Projector on teaching wall	
49	213	Classroom	Technology	Install soundbar	
50	225	Classroom	Construction	Remove existing raceway and patch wall	26' 1"
51	225	Classroom	Technology	Move existing AP and mount on network gangbox	
52	225	Classroom	Construction	Remove existing whiteboards and patch wall	
53	225	Classroom	Technology	Install (1) 5x8 whiteboard (centered), install (2) 5x6 whiteboards (one on each side of centered whiteboard)	Whiteboard mounted 26.5 inches from the floor
54	225	Classroom	Technology	Replace Projector on teaching wall	
55	225	Classroom	Technology	Install soundbar	
56	226	Classroom	Construction	Remove existing raceway and patch wall	26'
57	226	Classroom	Technology	Move existing AP and mount on network gangbox	
58	226	Classroom	Construction	Remove existing whiteboards and patch wall	
59	226	Classroom	Technology	Install (1) 5x8 whiteboard (centered), install (2) 5x8 whiteboards (one on each side of centered whiteboard)	Whiteboard mounted 26.5 inches from the floor

60	226	Classroom	Technology	Replace Projector on teaching wall	
61	226	Classroom	Technology	Install soundbar	
62	227	Classroom	Construction	Remove existing raceway and patch wall	22'
63	227	Classroom	Construction	Remove existing whiteboards and patch wall	
64	227	Classroom	Technology	Install (1) 5x8 whiteboard (centered), install (2) 5x6 whiteboards (one on each side of centered whiteboard)	Whiteboard mounted 26.5 inches from the floor
65	227	Classroom	Technology	Replace Projector on teaching wall	
66	227	Classroom	Technology	Install soundbar	
67	228	Classroom	Construction	Remove existing raceway and patch wall	26'
68	228	Classroom	Technology	Move existing AP and mount on network gangbox	
69	228	Classroom	Construction	Remove existing whiteboards and patch wall	
70	228	Classroom	Technology	Install (1) 5x8 whiteboard (centered), install (2) 5x8 whiteboards (one on each side of centered whiteboard)	Whiteboard mounted 26.5 inches from the floor
71	228	Classroom	Technology	Replace Projector on teaching wall	
72	228	Classroom	Technology	Install soundbar	
73	235	Classroom	Construction	Remove existing raceway and patch wall	27'
74	235	Classroom	Technology	Move existing AP and mount on network gangbox	
75	235	Classroom	Construction	Remove existing whiteboards and patch wall	
76	235	Classroom	Technology	Install (1) 5x8 whiteboard (centered), install (2) 5x8 whiteboards (one on each side of centered whiteboard)	Whiteboard mounted 26.5 inches from the floor
77	235	Classroom	Technology	Replace Projector on teaching wall	
78	235	Classroom	Technology	Install soundbar	
79	236	Classroom	Construction	Remove existing raceway and patch wall	26'
80	236	Classroom	Technology	Move existing AP and mount on network gangbox	
81	236	Classroom	Construction	Remove existing whiteboards and patch wall	
82	236	Classroom	Technology	Install (1) 5x8 whiteboard (centered), install (2) 5x8 whiteboards (one on each side of centered whiteboard)	Whiteboard mounted 26.5 inches from the floor
83	236	Classroom	Technology	Replace Projector on teaching wall	
84	236	Classroom	Technology	Install soundbar	
85	237	Classroom	Construction	Remove existing raceway and patch wall	26'

86	237	Classroom	Construction	Remove existing whiteboards and patch wall	
87	237	Classroom	Technology	Install (1) 5x8 whiteboard (centered), install (2) 5x8 whiteboards (one on each side of centered whiteboard)	Whiteboard mounted 26.5 inches from the floor
88	237	Classroom	Technology	Replace Projector on teaching wall	
89	237	Classroom	Technology	Install soundbar	
90	238	Classroom	Construction	Remove existing raceway and patch wall	26'
91	238	Classroom	Technology	Move existing AP and mount on network gangbox	
92	238	Classroom	Construction	Remove existing whiteboards and patch wall	
93	238	Classroom	Technology	Install (1) 5x8 whiteboard (centered), install (2) 5x8 whiteboards (one on each side of centered whiteboard)	Whiteboard mounted 26.5 inches from the floor
94	238	Classroom	Technology	Replace Projector on teaching wall	
95	238	Classroom	Technology	Install soundbar	
96	244	Classroom	Construction	Remove existing raceway and patch wall	21'
97	244	Classroom	Technology	Move existing AP and mount on network gangbox	
98	244	Classroom	Construction	Remove existing whiteboards and patch wall	
99	244	Classroom	Technology	Install (1) 5x8 whiteboard (centered), install (2) 5x6 whiteboards (one on each side of centered whiteboard)	Whiteboard mounted 26.5 inches from the floor
100	244	Classroom	Technology	Replace Projector on teaching wall	
101	244	Classroom	Technology	Install soundbar	
102	245	Classroom	Construction	Remove existing raceway and patch wall	16'
103	245	Classroom	Technology	Move existing AP and mount on network gangbox	
104	245	Classroom	Construction	Remove existing whiteboards and patch wall	
105	245	Classroom	Technology	Install (1) 5x8 whiteboard (centered)	Whiteboard mounted 26.5 inches from the floor
106	245	Classroom	Technology	Replace Projector on teaching wall	
107	245	Classroom	Technology	Install soundbar	
108	246	Classroom	Construction	Remove existing raceway and patch wall	12' 8"
109	246	Classroom	Technology	Move existing AP and mount on network gangbox	
110	246	Classroom	Construction	Remove existing whiteboards and patch wall	

111	246			Remove quad located to the right of the board	
112	246	Classroom	Technology	Install (1) 5x8 whiteboard (centered)	Whiteboard mounted 26.5 inches from the floor
113	246	Classroom	Technology	Replace Projector on teaching wall	
114	246	Classroom	Technology	Install soundbar	
115	249	Classroom	Construction	Remove existing raceway and patch wall	8' 3"
116	249	Classroom	Technology	Move existing AP and mount on network gangbox	
117	249	Classroom	Construction	Remove existing whiteboards and patch wall	
118	249			Remove quad located to the right of the board	
119	249	Classroom	Technology	Install (1) 5x8 whiteboard (centered)	Whiteboard mounted 26.5 inches from the floor
120	249	Classroom	Technology	Replace Projector on teaching wall	
121	249	Classroom	Technology	Install soundbar	
122	259	Classroom	Construction	Remove existing raceway and patch wall	22'
123	259	Classroom	Technology	Move existing AP and mount on network gangbox	
124	259	Classroom	Construction	Remove existing whiteboard and patch wall	
125	259	Classroom	Technology	Install (1) 5x8 whiteboard (centered), install (2) 5x6 whiteboards (one on each side of centered whiteboard)	Whiteboard mounted 26.5 inches from the floor
126	259	Classroom	Technology	Replace Projector on teaching wall	
127	259	Classroom	Technology	Install soundbar	
128	251	Classroom	Construction	Remove existing raceway and patch wall	29'
129	251	Classroom	Technology	Move existing AP and mount on network gangbox	
130	251	Classroom	Construction	Remove existing whiteboards, corkboards and patch wall	
131	251	Classroom	Technology	Install (1) 5x8 whiteboard (centered), install (2) 5x8 whiteboards (one on each side of centered whiteboard)	Whiteboard mounted 26.5 inches from the floor
132	251	Classroom	Technology	Replace Projector on teaching wall	
133	251	Classroom	Technology	Install soundbar	

Appendix 2 – KIPP Washington Heights Elementary Details

Line #	Room #	Room Type	Category	Task	Area Details (Ideal Whiteboard Length)
1	401	Classroom	Construction	Remove existing WMP and patch wall	8'
2	401	Classroom	Construction	Remove existing raceway and patch wall	
3	401	Classroom	Construction	Remove existing whiteboards and patch wall	
4	401	Classroom	Technology	Install (1) 5x8 whiteboard (centered)	Whiteboard mounted 26.5 inches from the floor
5	401	Classroom	Technology	Replace Projector on teaching wall	
6	401	Classroom	Technology	Install soundbar	
7	402	Classroom	Construction	Remove existing WMP and patch wall	22'
8	402	Classroom	Construction	Remove existing raceway and patch wall	
9	402	Classroom	Construction	Remove existing whiteboards and patch wall	
10	402	Classroom	Technology	Install (1) 5x8 whiteboard (centered), install (2) 5x8 whiteboards (one on each side of centered whiteboard)	Whiteboard mounted 26.5 inches from the floor
11	402	Classroom	Technology	Replace Projector on teaching wall	
12	402	Classroom	Technology	Install soundbar	
13	403	Classroom	Construction	Remove existing WMP and patch wall	18' 4"
14	403	Classroom	Construction	Remove existing raceway and patch wall	
15	403	Classroom	Construction	Remove existing whiteboards and patch wall	
16	403	Classroom	Technology	Install (1) 5x8 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard)	Whiteboard mounted 26.5 inches from the floor
17	403	Classroom	Technology	Replace Projector on teaching wall	
18	403	Classroom	Technology	Install soundbar	
19	404	Classroom	Construction	Remove existing WMP and patch wall	18'
20	404	Classroom	Construction	Remove existing raceway and patch wall	
21	404	Classroom	Construction	Remove existing whiteboards and patch wall	
22	404	Classroom	Technology	Install (1) 5x8 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard)	Whiteboard mounted 26.5 inches from the floor
23	404	Classroom	Technology	Replace Projector on teaching wall	

24	404	Classroom	Technology	Install soundbar	
25	405	Classroom	Construction	Remove existing WMP and patch wall	21' 6"
26	405	Classroom	Construction	Remove existing raceway and patch wall	
27	405	Classroom	Construction	Remove existing whiteboards and patch wall	
28	405	Classroom	Technology	Install (1) 5x8 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard)	Whiteboard mounted 26.5 inches from the floor
29	405	Classroom	Technology	Replace Projector on teaching wall	
30	405	Classroom	Technology	Install soundbar	
31	407	Classroom	Construction	Remove existing WMP and patch wall	17' 4"
32	407	Classroom	Construction	Remove existing raceway and patch wall	
33	407	Classroom	Construction	Remove existing whiteboards and patch wall	
34	407	Classroom	Technology	Install (1) 5x8 whiteboard (centered), install (2) 5x4 whiteboards (one on each side of centered whiteboard)	Whiteboard mounted 26.5 inches from the floor
35	407	Classroom	Technology	Replace Projector on teaching wall	
36	407	Classroom	Technology	Install soundbar	
37	408	Classroom	Construction	Remove existing WMP and patch wall	23' 6"
38	408	Classroom	Construction	Remove existing raceway and patch wall	
39	408	Classroom	Construction	Remove existing whiteboards and patch wall	
40	408	Classroom	Technology	Install (1) 5x8 whiteboard (centered), install (2) 5x6 whiteboards (one on each side of centered whiteboard)	Whiteboard mounted 26.5 inches from the floor
41	408	Classroom	Technology	Replace Projector on teaching wall	
42	408	Classroom	Technology	Install soundbar	
43	409	Classroom	Construction	Remove existing WMP and patch wall	17' 8"
44	409	Classroom	Construction	Remove existing raceway and patch wall	
45	409	Classroom	Construction	Remove existing whiteboards and patch wall	
46	409	Classroom	Technology	Install (1) 5x8 whiteboard (centered), install (2) 5x4 whiteboards (one on each side of centered whiteboard)	Whiteboard mounted 26.5 inches from the floor
47	409	Classroom	Technology	Replace Projector on teaching wall	
48	409	Classroom	Technology	Install soundbar	
49	410	Classroom	Construction	Remove existing WMP and patch wall	16'
50	410	Classroom	Construction	Remove existing raceway and patch wall	

51	410	Classroom	Construction	Remove existing whiteboards and patch wall	
52	410	Classroom	Technology	Install (1) 5x8 whiteboard (centered), install (2) 5x4 whiteboards (one on each side of centered whiteboard)	Whiteboard mounted 26.5 inches from the floor
53	410	Classroom	Technology	Replace Projector on teaching wall	
54	410	Classroom	Technology	Install soundbar	
55	411	Classroom	Construction	Remove existing WMP and patch wall	20' 3"
56	411	Classroom	Construction	Remove existing raceway and patch wall	
57	411	Classroom	Construction	Remove existing whiteboards and patch wall	
58	411	Classroom	Technology	Install (1) 5x8 whiteboard (centered), install (2) 5x6 whiteboards (one on each side of centered whiteboard)	Whiteboard mounted 26.5 inches from the floor
59	411	Classroom	Technology	Replace Projector on teaching wall	
60	411	Classroom	Technology	Install soundbar	
61	412	Classroom	Construction	Remove existing WMP and patch wall	21' 2"
62	412	Classroom	Construction	Remove existing raceway and patch wall	
63	412	Classroom	Construction	Remove existing whiteboards and patch wall	
64	412	Classroom	Technology	Install (1) 5x8 whiteboard (centered), install (2) 5x6 whiteboards (one on each side of centered whiteboard)	Whiteboard mounted 26.5 inches from the floor
65	412	Classroom	Technology	Replace Projector on teaching wall	
66	412	Classroom	Technology	Install soundbar	
67	413A	Classroom	Construction	Remove existing WMP and patch wall	17' 3"
68	413A	Classroom	Construction	Remove existing raceway and patch wall	
69	413A	Classroom	Construction	Remove existing whiteboards and patch wall	
70	413A	Classroom	Technology	Install (1) 5x8 whiteboard (centered), install (2) 5x4 whiteboards (one on each side of centered whiteboard)	Whiteboard mounted 26.5 inches from the floor
71	413A	Classroom	Technology	Replace Projector on teaching wall	
72	413A	Classroom	Technology	Install soundbar	
73	414A	Classroom	Construction	Remove existing WMP and patch wall	15' 10"
74	414A	Classroom	Construction	Remove existing raceway and patch wall	
75	414A	Classroom	Construction	Remove existing whiteboards and patch wall	
76	414A	Classroom	Construction	Install duplex power for projector	

77	414A	Classroom	Technology	Install (1) 5x8 whiteboard	Whiteboard mounted 26.5 inches from the floor
78	414A	Classroom	Technology	Replace Projector on teaching wall	
79	414A	Classroom	Technology	Install soundbar	
80	414B	Intervention	Construction	Remove existing raceway and patch wall	
81	414B	Intervention	Construction	Remove existing whiteboards and patch wall	
82	414B	Intervention	Construction	Install duplex power for projector	
83	414B	Classroom	Technology	Install (1) 5x8 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard)	Whiteboard mounted 26.5 inches from the floor
84	414B	Classroom	Technology	Replace Projector on teaching wall	
85	414B	Classroom	Technology	Install soundbar	
86	415	Classroom	Construction	Remove existing WMP and patch wall	21'
87	415	Classroom	Construction	Remove existing raceway and patch wall	
88	415	Classroom	Construction	Remove existing whiteboards and patch wall	
89	415	Classroom	Technology	Install (1) 5x8 whiteboard (centered), install (2) 5x6 whiteboards (one on each side of centered whiteboard)	Whiteboard mounted 26.5 inches from the floor
90	415	Classroom	Technology	Replace Projector on teaching wall	
91	415	Classroom	Technology	Install soundbar	
92	451	Office	Construction	Install duplex outlet for projector.	
93	451	Office	Technology	Use existing 4x8 whiteboard. Install raceway on left side of board.	
94	451	Office	Technology	Install Projector over existing 4x8 whiteboard.	
95	451	Office	Technology	Install soundbar	
96	460	Office	Construction	Remove existing bulletin board and patch wall	
97	460	Office	Construction	Install duplex power for projector	
98	460	Office	Technology	Install (1) 5x8 whiteboard in place of the existing bulletin board.	
99	460	Office	Technology	Replace Projector on teaching wall	
100	460	Office	Technology	Install soundbar	
101	513A	Classroom	Construction	Remove existing WMP and patch wall	24' 3"
102	513A	Classroom	Construction	Remove existing raceway and patch wall	
103	513A	Classroom	Construction	Remove existing whiteboards and patch wall	

104	513A	Classroom	Technology	Install (1) 5x8 whiteboard (centered), install (2) 5x8 whiteboards (one on each side of centered whiteboard)	Whiteboard mounted 26.5 inches from the floor
105	513A	Classroom	Technology	Replace Projector on teaching wall	
106	513A	Classroom	Technology	Install soundbar	
107	513B	Classroom	Construction	Remove existing WMP and patch wall	18'
108	513B	Classroom	Construction	Remove existing raceway and patch wall	
109	513B	Classroom	Construction	Remove existing whiteboards and patch wall	
110	513B	Classroom	Technology	Install (1) 5x8 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard)	Whiteboard mounted 26.5 inches from the floor
111	513B	Classroom	Technology	Replace Projector on teaching wall	
112	513B	Classroom	Technology	Install soundbar	
113	514	Classroom	Construction	Remove existing WMP and patch wall	21' 8"
114	514	Classroom	Construction	Remove existing raceway and patch wall	
115	514	Classroom	Construction	Remove existing whiteboards and patch wall	
116	514	Classroom	Technology	Install (1) 5x8 whiteboard (centered), install (2) 5x6 whiteboards (one on each side of centered whiteboard)	Whiteboard mounted 26.5 inches from the floor
117	514	Classroom	Technology	Replace Projector on teaching wall	
118	514	Classroom	Technology	Install soundbar	
119	515	Classroom	Construction	Remove existing WMP and patch wall	22'
120	515	Classroom	Construction	Remove existing raceway and patch wall	
121	515	Classroom	Construction	Remove existing whiteboards and patch wall	
122	515	Classroom	Technology	Install (1) 5x8 whiteboard (centered), install (2) 5x6 whiteboards (one on each side of centered whiteboard)	Whiteboard mounted 26.5 inches from the floor
123	515	Classroom	Technology	Replace Projector on teaching wall	
124	515	Classroom	Technology	Install soundbar	

Appendix 3 – KIPP Academy Elementary Details

Line#	Room #	Room Type	Category	Task	Area Details (Ideal Whiteboard Length)
1	185	Classroom	Construction	Remove existing STP and patch wall	17' 10"
2	185	Classroom	Construction	Remove existing raceway and patch wall	
3	185	Classroom	Construction	Remove existing whiteboards and patch wall	
4	185	Classroom	Construction	Remove Smartboard and patch wall	
5	185	Classroom	Technology	Install duplex for projector	
6	185	Classroom	Technology	Install (1) 5x8 whiteboard (centered), install (2) 5x4 whiteboards (one on each side of centered whiteboard)	Whiteboard mounted 26.5 inches from the floor
7	185	Classroom	Technology	Replace Projector on teaching wall	
8	185	Classroom	Technology	Install soundbar	
9	189	Classroom	Construction	Remove existing STP and patch wall	18' 11"
10	189	Classroom	Construction	Remove existing raceway and patch wall	
11	189	Classroom	Construction	Remove existing whiteboards and patch wall	
12	189	Classroom	Construction	Remove Smartboard and patch wall	
13	189	Classroom	Technology	Install duplex for projector	
14	189	Classroom	Technology	Install (1) 5x8 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard)	Whiteboard mounted 26.5 inches from the floor
15	189	Classroom	Technology	Replace Projector on teaching wall	
16	189	Classroom	Technology	Install soundbar	
17	191	Classroom	Construction	Remove existing STP and patch wall	18' 3"
18	191	Classroom	Construction	Remove existing raceway and patch wall	
19	191	Classroom	Construction	Remove existing whiteboards and patch wall	
20	191	Classroom	Construction	Remove Smartboard and patch wall	
21	191	Classroom	Technology	Install duplex for projector	
22	191	Classroom	Technology	Install (1) 5x8 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard)	Whiteboard mounted 26.5 inches from the floor
23	191	Classroom	Technology	Replace Projector on teaching wall	
24	191	Classroom	Technology	Install soundbar	
25	196	Classroom	Construction	Remove existing STP and patch wall	17' 4"
26	196	Classroom	Construction	Remove existing raceway and patch wall	

27	196	Classroom	Construction	Remove existing whiteboards and patch wall	
28	196	Classroom	Construction	Remove Smartboard and patch wall	
29	196	Classroom	Technology	Install duplex for projector	
30	196	Classroom	Technology	Install (1) 5x8 whiteboard (centered), install (2) 5x4 whiteboards (one on each side of centered whiteboard)	Whiteboard mounted 26.5 inches from the floor
31	196	Classroom	Technology	Replace Projector on teaching wall	
32	196	Classroom	Technology	Install soundbar	
33	285	Classroom	Construction	Remove existing STP and patch wall	19' 3"
34	285	Classroom	Construction	Remove existing raceway and patch wall	
35	285	Classroom	Construction	Remove existing whiteboards and patch wall	
36	285	Classroom	Construction	Remove Smartboard and patch wall	
37	285	Classroom	Technology	Install duplex for projector	
38	285	Classroom	Technology	Install (1) 5x8 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard)	Whiteboard mounted 26.5 inches from the floor
39	285	Classroom	Technology	Replace Projector on teaching wall	
40	285	Classroom	Technology	Install soundbar	
41	288	Classroom	Construction	Remove existing STP and patch wall	17' 7"
42	288	Classroom	Construction	Remove existing raceway and patch wall	
43	288	Classroom	Construction	Remove existing whiteboards and patch wall	
44	288	Classroom	Construction	Remove Smartboard and patch wall	
45	288	Classroom	Technology	Install duplex for projector	
46	288	Classroom	Technology	Install (1) 5x8 whiteboard (centered), install (2) 5x4 whiteboards (one on each side of centered whiteboard)	Whiteboard mounted 26.5 inches from the floor
47	288	Classroom	Technology	Replace Projector on teaching wall	
48	288	Classroom	Technology	Install soundbar	
49	291	Classroom	Construction	Remove existing STP and patch wall	13' 8"
50	291	Classroom	Construction	Remove existing raceway and patch wall	
51	291	Classroom	Construction	Remove existing whiteboards and patch wall	
52	291	Classroom	Construction	Remove Smartboard and patch wall	
53	291	Classroom	Technology	Install duplex for projector	

54	291	Classroom	Technology	Install (1) 5x8 whiteboard (centered)	Whiteboard mounted 26.5 inches from the floor
55	291	Classroom	Technology	Replace Projector on teaching wall	
56	291	Classroom	Technology	Install soundbar	
57	292	Classroom	Construction	Remove existing STP and patch wall	19' 2"
58	292	Classroom	Construction	Remove existing raceway and patch wall	
59	292	Classroom	Construction	Remove existing whiteboards and patch wall	
60	292	Classroom	Construction	Remove Smartboard and patch wall	
61	292	Classroom	Technology	Install duplex for projector	
62	292	Classroom	Technology	Install (1) 5x8 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard)	Whiteboard mounted 26.5 inches from the floor
63	292	Classroom	Technology	Replace Projector on teaching wall	
64	292	Classroom	Technology	Install soundbar	
65	294	Classroom	Construction	Remove existing STP and patch wall	19' 2"
66	294	Classroom	Construction	Remove existing raceway and patch wall	
67	294	Classroom	Construction	Remove existing whiteboards and patch wall	
68	294	Classroom	Construction	Remove Smartboard and patch wall	
69	294	Classroom	Technology	Install duplex for projector	
70	294	Classroom	Technology	Install (1) 5x8 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard)	Whiteboard mounted 26.5 inches from the floor
71	294	Classroom	Technology	Replace Projector on teaching wall	
72	294	Classroom	Technology	Install soundbar	
73	296	Classroom	Construction	Remove existing STP and patch wall	18' 6"
74	296	Classroom	Construction	Remove existing raceway and patch wall	
75	296	Classroom	Construction	Remove existing whiteboards and patch wall	
76	296	Classroom	Construction	Remove Smartboard and patch wall	
77	296	Classroom	Technology	Install duplex for projector	
78	296	Classroom	Technology	Install (1) 5x8 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard)	Whiteboard mounted 26.5 inches from the floor
79	296	Classroom	Technology	Replace Projector on teaching wall	
80	296	Classroom	Technology	Install soundbar	

81	380	Classroom	Construction	Remove existing STP and patch wall	7' 11"
82	380	Classroom	Construction	Remove existing raceway and patch wall	
83	380	Classroom	Construction	Remove existing whiteboards and patch wall	
84	380	Classroom	Construction	Remove Smartboard and patch wall	
85	380	Classroom	Technology	Install duplex for projector	
86	380	Classroom	Technology	Install (1) 5x6 whiteboard (centered)	Whiteboard mounted 26.5 inches from the floor
87	380	Classroom	Technology	Replace Projector on teaching wall	
88	380	Classroom	Technology	Install soundbar	
89	380A	Classroom	Construction	Remove existing WMP and patch wall	24'
90	380A	Classroom	Construction	Remove existing raceway and patch wall	
91	380A	Classroom	Construction	Remove existing whiteboards and patch wall	
92	380A	Classroom	Construction	Remove Smartboard and patch wall	
93	380A	Classroom	Technology	Install duplex for projector	
94	380A	Classroom	Technology	Install (1) 5x8 whiteboard (centered), install (2) 5x6 whiteboards (one on each side of centered whiteboard)	Whiteboard mounted 26.5 inches from the floor
95	380A	Classroom	Technology	Replace Projector on teaching wall	
96	380A	Classroom	Technology	Install soundbar	
97	389	TWR	Construction	Remove existing WMP and patch wall	16' 9"
98	389	TWR	Construction	Remove existing raceway and patch wall	
99	389	TWR	Construction	Remove existing whiteboards and patch wall	
100	389	TWR	Construction	Remove Smartboard and patch wall	
101	389	TWR	Technology	Install duplex for projector	
102	389	TWR	Technology	Install (1) 5x8 whiteboard (centered), install (2) 5x4 whiteboards (one on each side of centered whiteboard)	Whiteboard mounted 26.5 inches from the floor
103	389	TWR	Technology	Replace Projector on teaching wall	
104	389	TWR	Technology	Install soundbar	
105	B69	Classroom	Construction	Remove existing STP and patch wall	20' 8"
106	B69	Classroom	Construction	Remove existing raceway and patch wall	
107	B69	Classroom	Construction	Remove existing whiteboards and patch wall	
108	B69	Classroom	Construction	Remove Smartboard and patch wall	

109	B69	Classroom	Technology	Install duplex for projector	
110	B69	Classroom	Technology	Install (1) 5x8 whiteboard (centered), install (2) 5x6 whiteboards (one on each side of centered whiteboard)	Whiteboard mounted 26.5 inches from the floor
111	B69	Classroom	Technology	Replace Projector on teaching wall	
112	B69	Classroom	Technology	Install soundbar	
113	B71	Classroom	Construction	Remove existing STP and patch wall	20' 3"
114	B71	Classroom	Construction	Remove existing raceway and patch wall	
115	B71	Classroom	Construction	Remove existing whiteboards and patch wall	
116	B71	Classroom	Construction	Remove Smartboard and patch wall	
117	B71	Classroom	Technology	Install duplex for projector	
118	B71	Classroom	Technology	Install (1) 5x8 whiteboard (centered), install (2) 5x6 whiteboards (one on each side of centered whiteboard)	Whiteboard mounted 26.5 inches from the floor
119	B71	Classroom	Technology	Replace Projector on teaching wall	
120	B71	Classroom	Technology	Install soundbar	
121	B85	Classroom	Construction	Remove existing STP and patch wall	14' 3"
122	B85	Classroom	Construction	Remove existing raceway and patch wall	
123	B85	Classroom	Construction	Remove existing whiteboards and patch wall	
124	B85	Classroom	Construction	Remove Smartboard and patch wall	
125	B85	Classroom	Technology	Install duplex for projector	
126	B85	Classroom	Technology	Install (1) 5x8 whiteboard (centered)	Whiteboard mounted 26.5 inches from the floor
127	B85	Classroom	Technology	Replace Projector on teaching wall	
128	B85	Classroom	Technology	Install soundbar	
129	B91	Classroom	Construction	Remove existing STP and patch wall	18' 4"
130	B91	Classroom	Construction	Remove existing raceway and patch wall	
131	B91	Classroom	Construction	Remove existing whiteboards and patch wall	
132	B91	Classroom	Construction	Remove Smartboard and patch wall	
133	B91	Classroom	Technology	Install duplex for projector	
134	B91	Classroom	Technology	Install (1) 5x8 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard)	Whiteboard mounted 26.5 inches from the floor
135	B91	Classroom	Technology	Replace Projector on teaching wall	

136	B91	Classroom	Technology	Install soundbar	
137	B92	Classroom	Construction	Remove existing STP and patch wall	18' 3"
138	B92	Classroom	Construction	Remove existing raceway and patch wall	
139	B92	Classroom	Construction	Remove existing whiteboards and patch wall	
140	B92	Classroom	Construction	Remove Smartboard and patch wall	
141	B92	Classroom	Technology	Install duplex for projector	
142	B92	Classroom	Technology	Install (1) 5x8 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard)	Whiteboard mounted 26.5 inches from the floor
143	B92	Classroom	Technology	Replace Projector on teaching wall	
144	B92	Classroom	Technology	Install soundbar	
145	B94	Classroom	Construction	Remove existing STP and patch wall	7'
146	B94	Classroom	Construction	Remove existing raceway and patch wall	
147	B94	Classroom	Construction	Remove existing whiteboards and patch wall	
148	B94	Classroom	Construction	Remove Smartboard and patch wall	
149	B94	Classroom	Technology	Install duplex for projector	
150	B94	Classroom	Technology	Install (1) 5x6 whiteboard (centered)	Whiteboard mounted 26.5 inches from the floor
151	B94	Classroom	Technology	Replace Projector on teaching wall	
152	B94	Classroom	Technology	Install soundbar	
153	B96	Classroom	Construction	Remove existing STP and patch wall	18' 10"
154	B96	Classroom	Construction	Remove existing raceway and patch wall	
155	B96	Classroom	Construction	Remove existing whiteboards and patch wall	
156	B96	Classroom	Construction	Remove Smartboard and patch wall	
157	B96	Classroom	Technology	Install duplex for projector	
158	B96	Classroom	Technology	Install (1) 5x8 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard)	Whiteboard mounted 26.5 inches from the floor
159	B96	Classroom	Technology	Replace Projector on teaching wall	
160	B96	Classroom	Technology	Install soundbar	
161	C69	Classroom	Construction	Remove existing WMP and patch wall	21' 7"
162	C69	Classroom	Construction	Remove existing raceway and patch wall	
163	C69	Classroom	Construction	Remove existing whiteboards and patch wall	

164	C69	Classroom	Construction	Remove Smartboard and patch wall	
165	C69	Classroom	Technology	Install duplex for projector	
166	C69	Classroom	Technology	Install (1) 5x8 whiteboard (centered), install (2) 5x6 whiteboards (one on each side of centered whiteboard)	Whiteboard mounted 26.5 inches from the floor
167	C69	Classroom	Technology	Replace Projector on teaching wall	
168	C69	Classroom	Technology	Install soundbar	
169	C85	Classroom	Construction	Remove existing STP and patch wall	17' 6"
170	C85	Classroom	Construction	Remove existing raceway and patch wall	
171	C85	Classroom	Construction	Remove existing whiteboards and patch wall	
172	C85	Classroom	Construction	Remove Smartboard and patch wall	
173	C85	Classroom	Technology	Install duplex for projector	
174	C85	Classroom	Technology	Install (1) 5x8 whiteboard (centered), install (2) 5x4 whiteboards (one on each side of centered whiteboard)	Whiteboard mounted 26.5 inches from the floor
175	C85	Classroom	Technology	Replace Projector on teaching wall	
176	C85	Classroom	Technology	Install soundbar	
177	C89	Classroom	Construction	Remove existing STP and patch wall	18' 7"
178	C89	Classroom	Construction	Remove existing raceway and patch wall	
179	C89	Classroom	Construction	Remove existing whiteboards and patch wall	
180	C89	Classroom	Construction	Remove Smartboard and patch wall	
181	C89	Classroom	Technology	Install duplex for projector	
182	C89	Classroom	Technology	Install (1) 5x8 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard)	Whiteboard mounted 26.5 inches from the floor
183	C89	Classroom	Technology	Replace Projector on teaching wall	
184	C89	Classroom	Technology	Install soundbar	
185	C91	Classroom	Construction	Remove existing STP and patch wall	20' 10"
186	C91	Classroom	Construction	Remove existing raceway and patch wall	
187	C91	Classroom	Construction	Remove existing whiteboards and patch wall	
188	C91	Classroom	Construction	Remove Smartboard and patch wall	
189	C91	Classroom	Technology	Install duplex for projector	
190	C91	Classroom	Technology	Install (1) 5x8 whiteboard (centered), install (2) 5x6 whiteboards (one on each side of centered whiteboard)	Whiteboard mounted 26.5 inches from the floor

191	C91	Classroom	Technology	Replace Projector on teaching wall	
192	C91	Classroom	Technology	Install soundbar	
193	C94	Classroom	Construction	Remove existing WMP and patch wall	18' 9"
194	C94	Classroom	Construction	Remove existing raceway and patch wall	
195	C94	Classroom	Construction	Remove existing whiteboards and patch wall	
196	C94	Classroom	Construction	Remove Smartboard and patch wall	
197	C94	Classroom	Technology	Install duplex for projector	
198	C94	Classroom	Technology	Install (1) 5x8 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard)	Whiteboard mounted 26.5 inches from the floor
199	C94	Classroom	Technology	Replace Projector on teaching wall	
200	C94	Classroom	Technology	Install soundbar	
201	C96	Classroom	Construction	Remove existing WMP and patch wall	20' 2"
202	C96	Classroom	Construction	Remove existing raceway and patch wall	
203	C96	Classroom	Construction	Remove existing whiteboards and patch wall	
204	C96	Classroom	Construction	Remove Smartboard and patch wall	
205	C96	Classroom	Technology	Install duplex for projector	
206	C96	Classroom	Technology	Install (1) 5x8 whiteboard (centered), install (2) 5x6 whiteboards (one on each side of centered whiteboard)	Whiteboard mounted 26.5 inches from the floor
207	C96	Classroom	Technology	Replace Projector on teaching wall	
208	C96	Classroom	Technology	Install soundbar	

Appendix 4 – Summary of Whiteboard Sizing

<u>Infinity Elementary</u>	<u>Washington Heights Elementary</u>	<u>Academy Elementary</u>	<u>TOTALS</u>
Summary Info	Summary Info	Summary Info	Summary
Total Rooms = 25	Total Rooms = 20	Total Rooms = 26	Rooms - 71
Boards - 5x8 = 24	Boards - 5x8 = 19	Boards - 5x8 = 24	Boards 5x8 - 67
	Boards - 4x8 = 1		Boards 4x8 - 1
Boards - 5x6 = 12	Boards - 5x6 = 12	Boards - 5x6 = 14	Boards 5x6 - 38
	Boards - 5x5 = 10	Boards - 5x5 = 22	Boards 5x5 - 30
	Boards - 5x4 = 8	Boards - 5x4 = 10	Boards 5x4 - 18
Projectors - 25	Projectors - 20	Projectors - 26	Projectors - 71