



High School Science Labs Design Committee Meeting #3

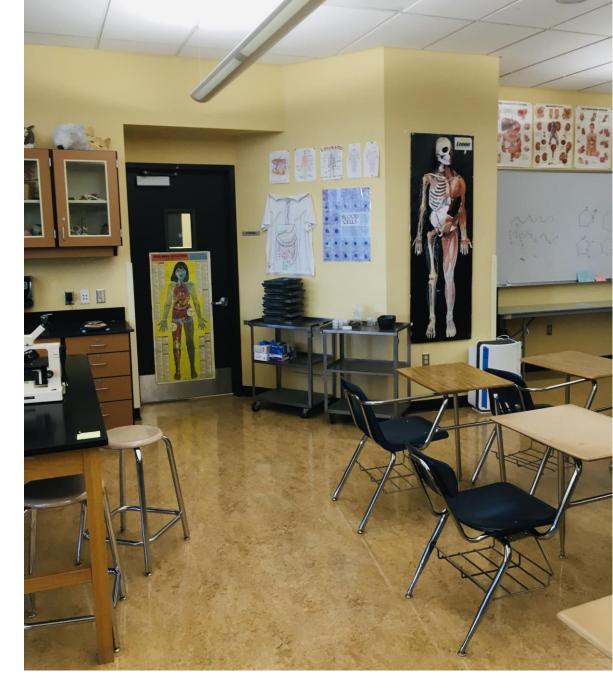
Lake Oswego School District

December 01, 2023

Agenda

What We've Heard Meeting 2 Takeaways

Design DevelopmentReview & Options



What We've Heard

What We've Heard: November 2 Meeting Takeaways

- Clarified zoning for classrooms
- Discussed equipment needs in prep rooms
- Staff room has good layout, no visibility to hall but borrow light from adjacent room
- Classroom of the future- add sinks and consolidate furniture
- Discussed features teachers currently uselighting, exhaust, etc.





What We've Heard: Chemistry Lab Inspiration

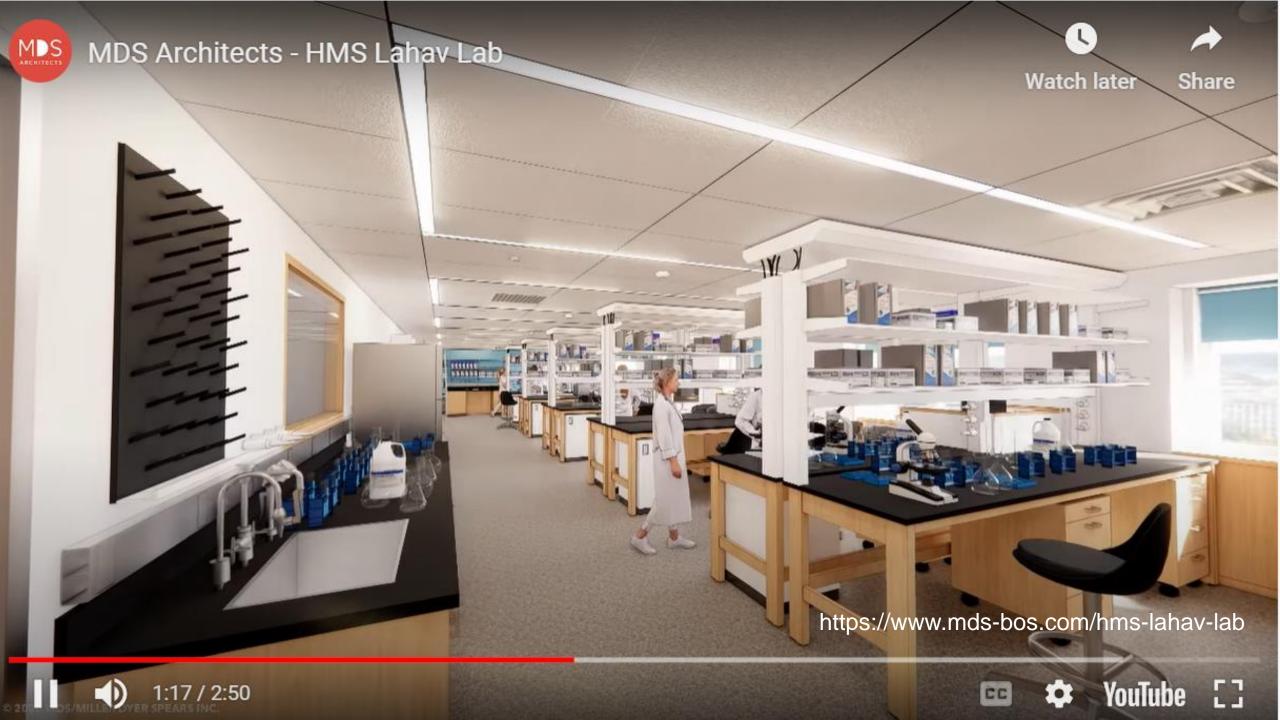


















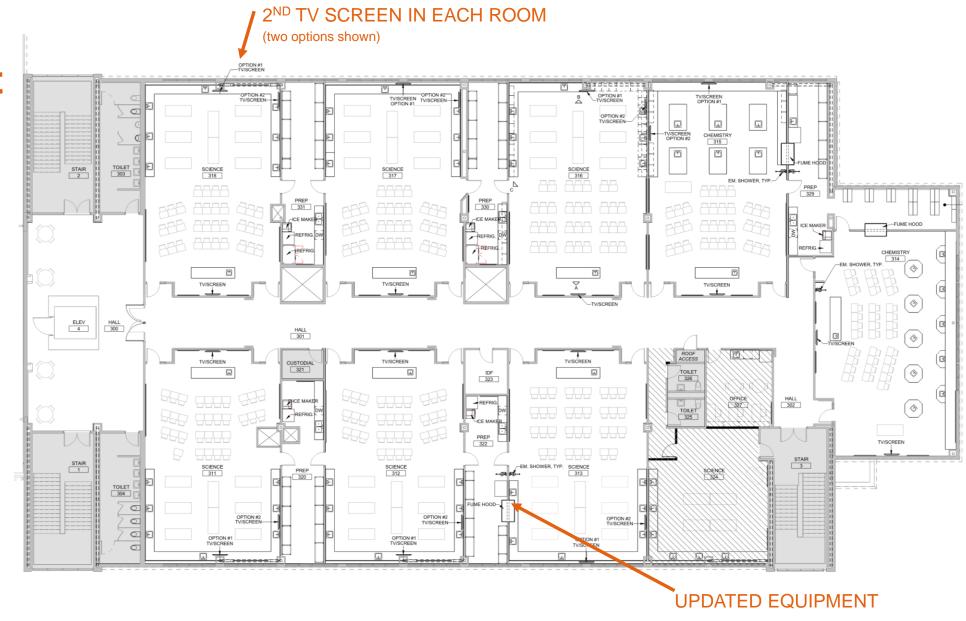


Design Development

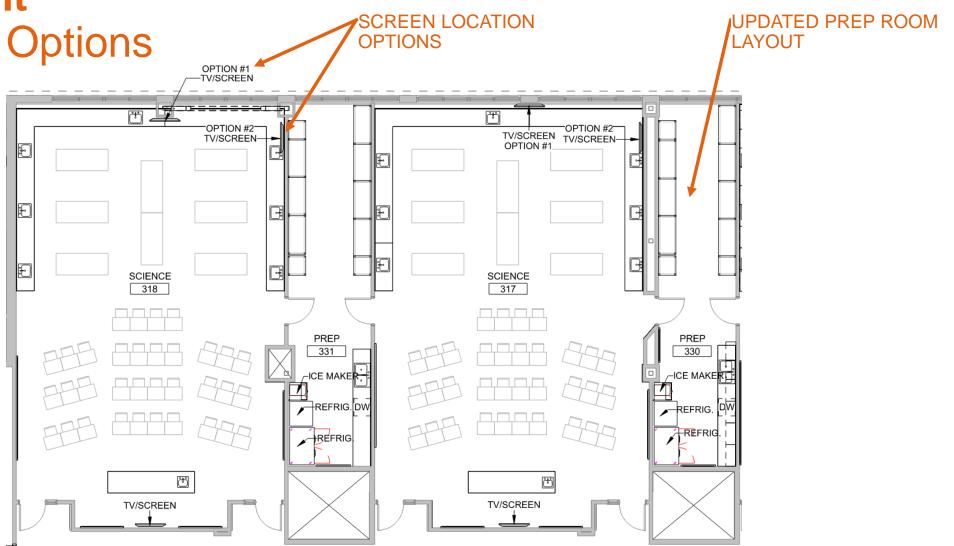
Design Development Overview

GENERAL UPGRADES:

- NEW LIGHTING, CEILINGS, FLOORING AND WALL FINISHES.
- ADDITIONAL MARKERBOARDS AND TWO FLAT SCREENS PER ROOM.
- NEW SINKS AND COUNTERS, SALVAGE CABINETS WHERE POSSIBLE
- UPGRADES TO PLUMBING, GAS, VENTILATION, SYSTEMS INCLUDING FUME HOODS.
- ACCESS TO GAS ALONG THE PERIMETER COUNTERS IN EVERY ROOM.
- REPLACE AGING EQUIPMENT AND FURNITURE



Design
Development
General Lab Options



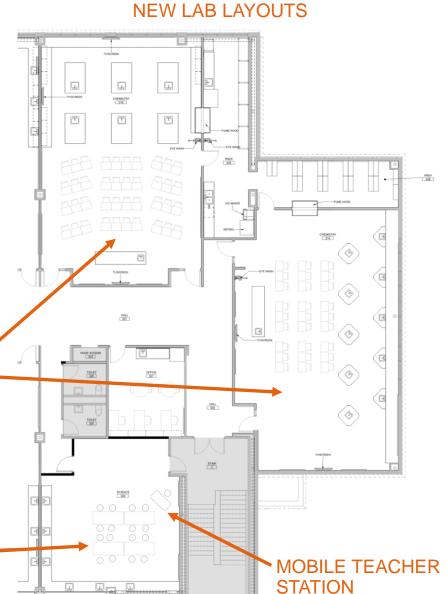
Design Development

Chemistry (side-by-side comparison from last meeting design), Teacher Office, &

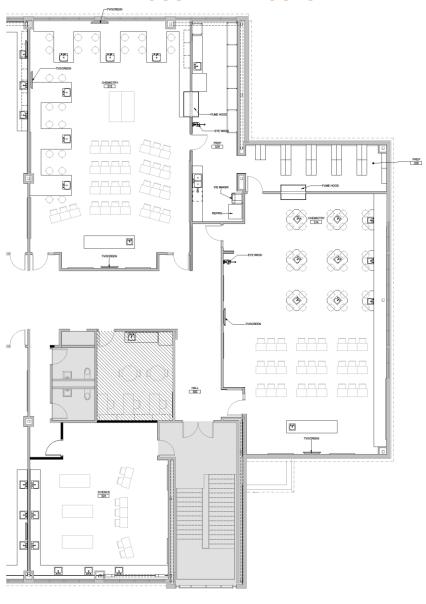
Classroom of the Future

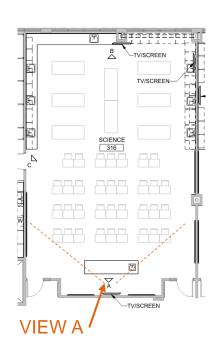
TALL TABLES AND STOOLS

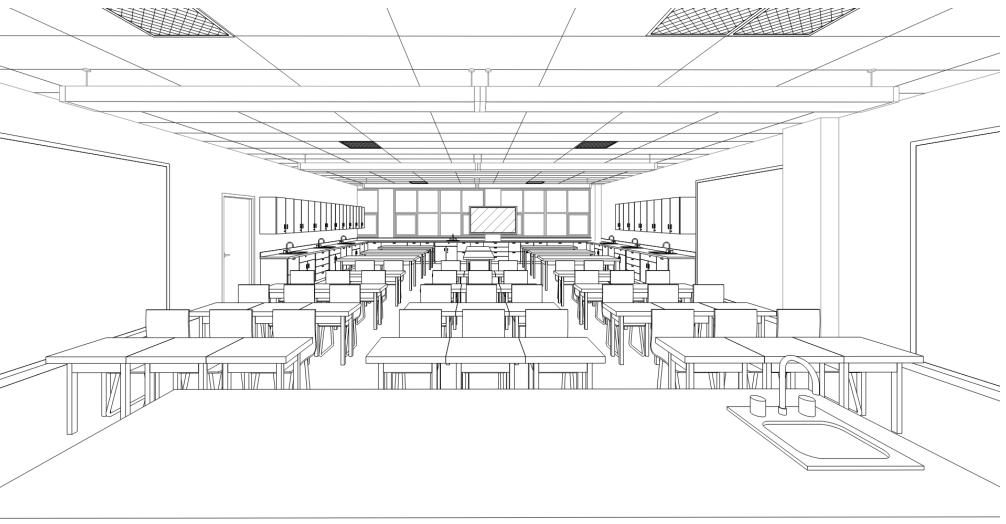
ALT LAB LAYOUTS

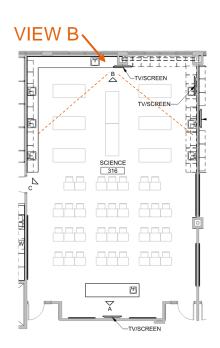


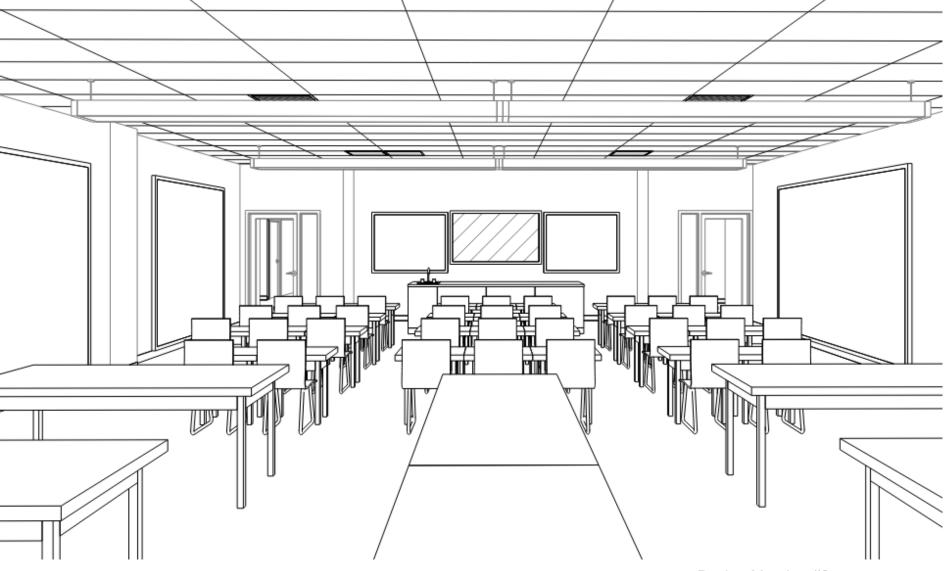
PREVIOUS LAB LAYOUTS

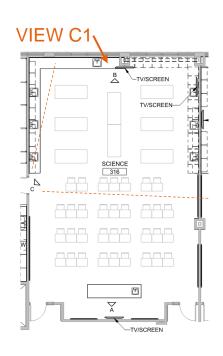


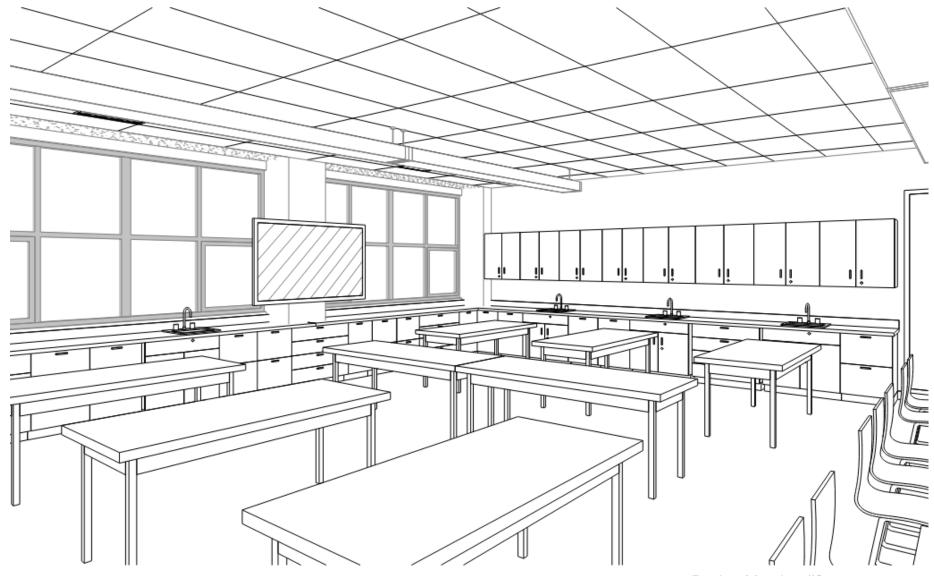


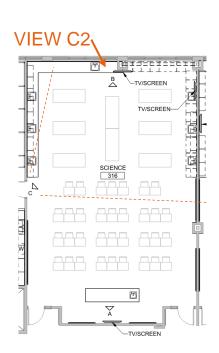


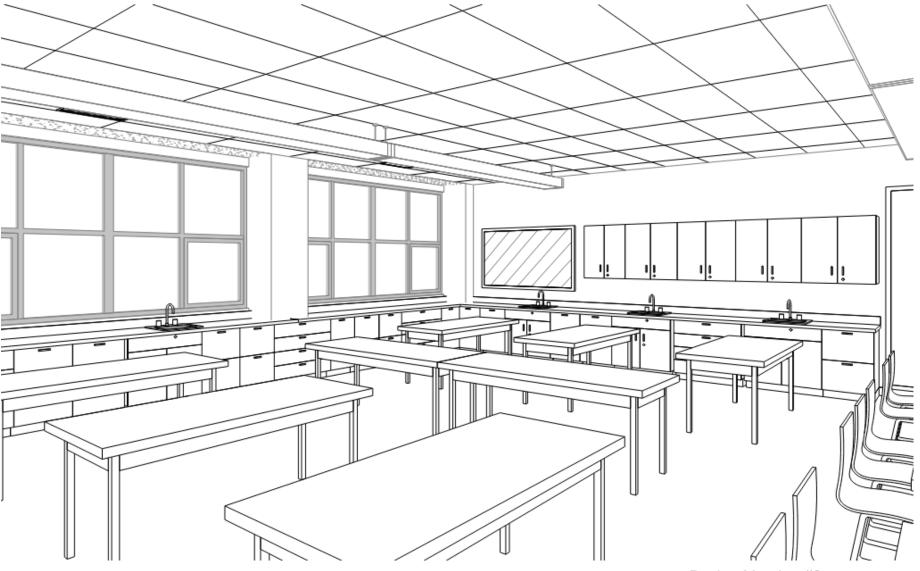












Next Steps

EQUIPMENT LIST
Section 1

Lake Oswego High School - Science Classroom and Prep Room Equipment								
Equipment	Quantity	Utility connections	Room(s)	New or existing	In contract/OFCI/OFOI	sole sourced/ BOD /	Displine	Notes:
		Electrical, Mech,	314,					
Fume Hood Single Side	1 per room	Gas, Water	315	New	In Contract		M,E,P	Emergency Shut Off Switch
			314 & 328,					
		Electrical, Mech,	315 & 329,					
Fume Hood - Double	1 per room	Gas, Water	313 & 322	New	In Contract		M,E,P	Emergency Shut Off Switch
			311, 312,					
			313, 316,					
			317, 318,					Let us know if LOSD will be reusing the blanket
Fire blank and extinguisher	1 per room	N/A	314, 315	New	In Contract		N/A	or extingusiher
			311, 312,					
			313, 316,					Note this is a comb shower and eyewash, if we
5	١.	a	317, 318,				_	switch to just eyewash in certain rooms add to
Emergency Shower / Eyewash	1 per room	Plumbing	314, 315	New	In Contract	Basis of Design	Р	the row below.
See notes above								
Eyewash			Prep 320,					
			Prep 320,					
			Prep 322,					
		Electrical and	Prep 330,					
Dishwasher	1 per room		Prep 330,	New	OFCI	N/A	A,E,P	Commercial-grade dishwasher
Distiwasilei	1 per room	Fidilibilig	F16b 331	ivew	orci	N/A	A,L,F	Tower Garden, Green Bronx Machine, verify
Indoor Plant Growing Station	1	Electrical	Room 313	New	In Contract	Basis of Design	A,E	connection/power with electrical
macor Flant Growing Station	+ -	Liectrical	NOOIII 313	IVEV	iii contract	basis of besign	۸,۲	connection/power with electrical
I								
			311, 312,					
			313, 316,					
			317, 318,					Retractable Drop-Down Power And Data, See
Retractable Drop Down P&D	?	Electrical and Tech	314, 315	New	In Contract	?	E,T	Electrical & Technology.J15
netractable brop bomin ab	+ -	Electrical and recir	Prep 320,	11011	ni contract	·	-,.	
			Prep 322,					
			Prep 329,					
			Prep 330,					
Refrigerator / Freezer	1 per room	Electrical	Prep 331	New	OFCI	N/A	Е	
			Prep 330,					
Heavy Duty Freezer	1 per room	Electrical	Prep 331	New	OFCI	N/A	Е	
,,			F - 3 -			,		+

NO	OTES/Info Needed from LOSD
0	Only doubled sided now at LOHS, see Revit model
0	only doubled sided now at LOHS, see Revit model. (3) units?
ı	Need to confirm approach with LOSD
r Si	Emergency Showers at (3) hemistry classes + (2) assoc. Prep ooms 322 + 329 only = (5) total. ingle eyewash, sink integrated at ach classroom and Prep (without a shower).
	Confirm OFCI. Confirm size + number. Teachers requested Science-grade dishwasher.
١	Verify type with Teachers/LOSD
s lo	Currently showing locations per student lab tables and in approx ocations. Confirm number/type with District. Confirm they like drops used at 2nd Floor Maker Space.
	Confirm this is a residential refridgerator and if OFCI.
Co	onfirm OFCI. Confirm size + type.

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EQUIPMENT LIST Section 2

			Prep 320,							
			Prep 322,							
			Prep 329,							
			Prep 330,							
Ice Machine	1 per room	Electrical, Plumbing	Prep 331	New	OFCI	N/A	E, P	Ice Machine with floor sink		
			Prep 320,							
			Prep 322,							
			Prep 329,					In the drawings they are not listed as the items:		
Chemical Storage Cabinets /	l.		Prep 330,			_		are they separate or the same item: Chemical		
Flammable Storage Cabinet	1 per room	Mech?	Prep 331	New	In Contract	?	M	Storage Cabinets / Flammable Storage Cabinet		
Duplicated from above see notes								See this same as a chemical storage		
Flammable Storage Cabinet	1 per room							I believe flammable needs venting		
			Duna							
			Prep,							
	D-6+-		Science,							
Sink with Sand Traps	Ref to	Dhumhing	and	Now	In Contrast	?	Р	Sink and all components related to it		
Sink with Sand Traps	Drawings	Plumbing	Chemistry	New	In Contract	r	r	Sink and all components related to it ThermoFisher SHKE6000 (120 V, shaker, no		
			Prep,					refrigeration)*		
			Science,					Thermo Scientific™ Heratherm™ General		
			and					Protocol Microbiological Incubator, 194 L,		
Incubator Unit	1	Electrical	Chemistry	New	OFCI	?	E	Stainless Steel, EMD		
	_	2.com/od/	on on mounty	11011	51 51			otalinoss otesi, zinz		
Goggle Sanitizer					NEED	INFO				
Lab Coat Rack	NEED INFO									
Peg Board	NEED INFO									
Gas Piping										
Gas Fitting Nozzles	NEED INFO									
TV / MonitorMonitor					OFCI					
4'x4' MB										
4'x8' MB										
4'x4' TB										

Would (1) ice maker work for the Department? Confirm OFCI. Confirm size, number, + type. Confirm size, number, location + Confirm size, number, location -Located at every sink. *From 11/02 Design Meeting request for this unit. Confirm locations and if OFCI. Confirm need with LOSD/teachers If needed, confirm size, locations, OFCI, etc. Confirm need with LOSD/teachers If needed, confirm size, locations, OFCI, etc. Confirm need with LOSD/teachers If needed, confirm size, locations, OFCI, etc. Confirm number and location. Confirm function with other existing monitor. Match existing Review with teachers. Review with teachers.

Review with teachers.

EQUIPMENT LIST

Section 3

	51 1	311, 312, 313, 316, 317, 318,				Basis of design is Vaddio DocCAM 20 HDBT
Ceiling Mounted Camera	Electrical and Tech	314, 315	In Contract	Basis of Design	Т	OneLink
Card Reader						
Utility Sink						
Clock						
Autoclave						
			OFCI = Owner			
			Furnished/Contractor		M =	
			Installed		Mechanical	
			OFOI = Owner		P = Plumbing	
Abbassistians			Furnished/Owner	DOD - Davis of Davis	E = Electrical	
Abbreviations			Installed	BOD = Basis of Design	i = recnnology	

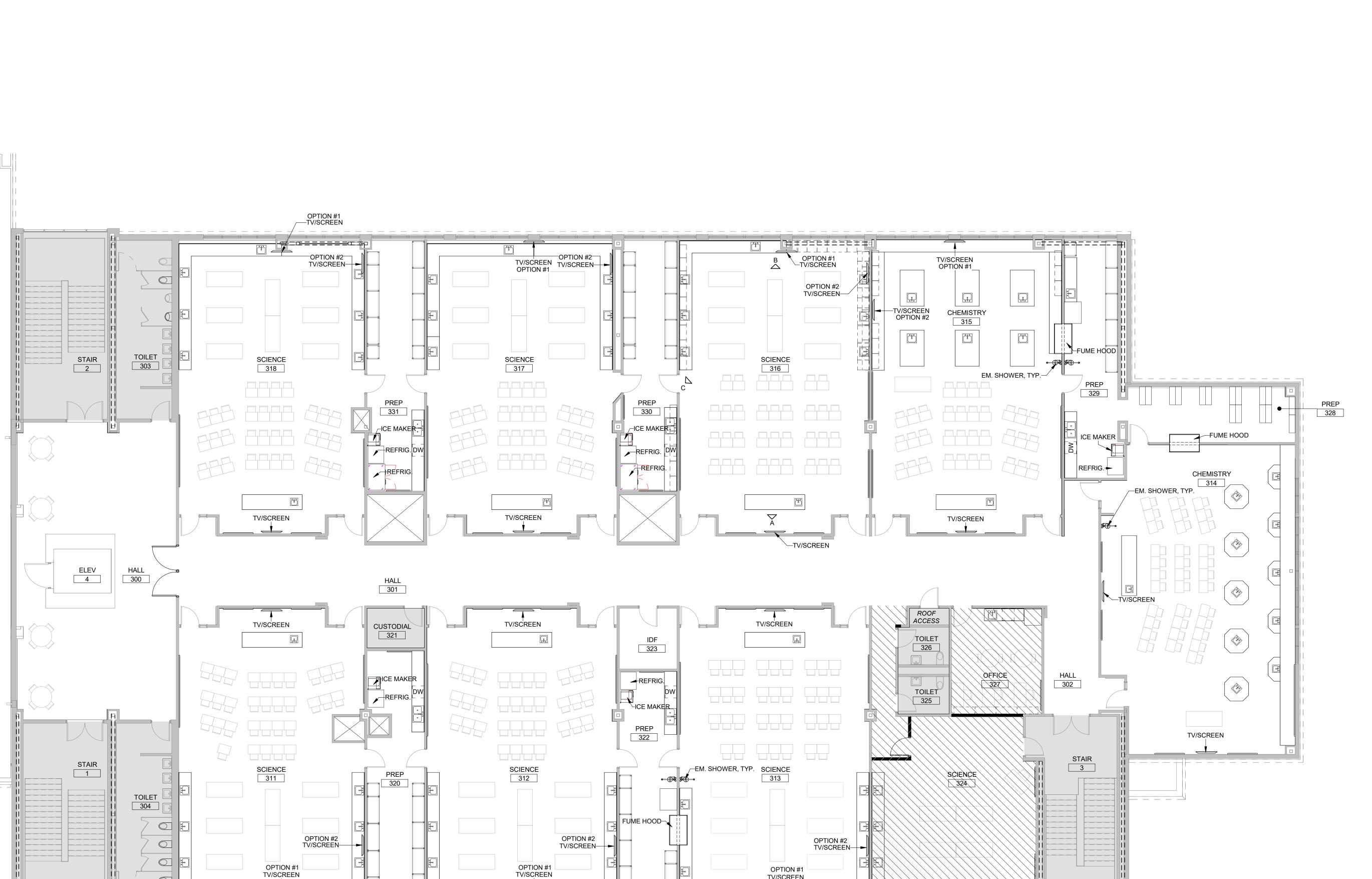
Confirm need with LOSD/teachers.
If needed, confirm size, locations,
in contract, etc.

For Prep room doors only.
Confirm function with
LOSD/teachers.

Confirm this is needed at any
classroom or prep rooms?
Deeper/utility sink
Confirm existing to remain
Confirm if needed, function, type,
and exhaust.

ARCADIS + Lake Oswego School District

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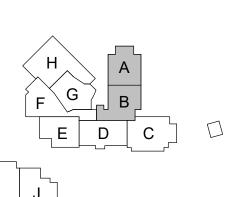


OPTION #1 TV/SCREEN

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> DESCRIPTION 2023-11-15



True North Project North

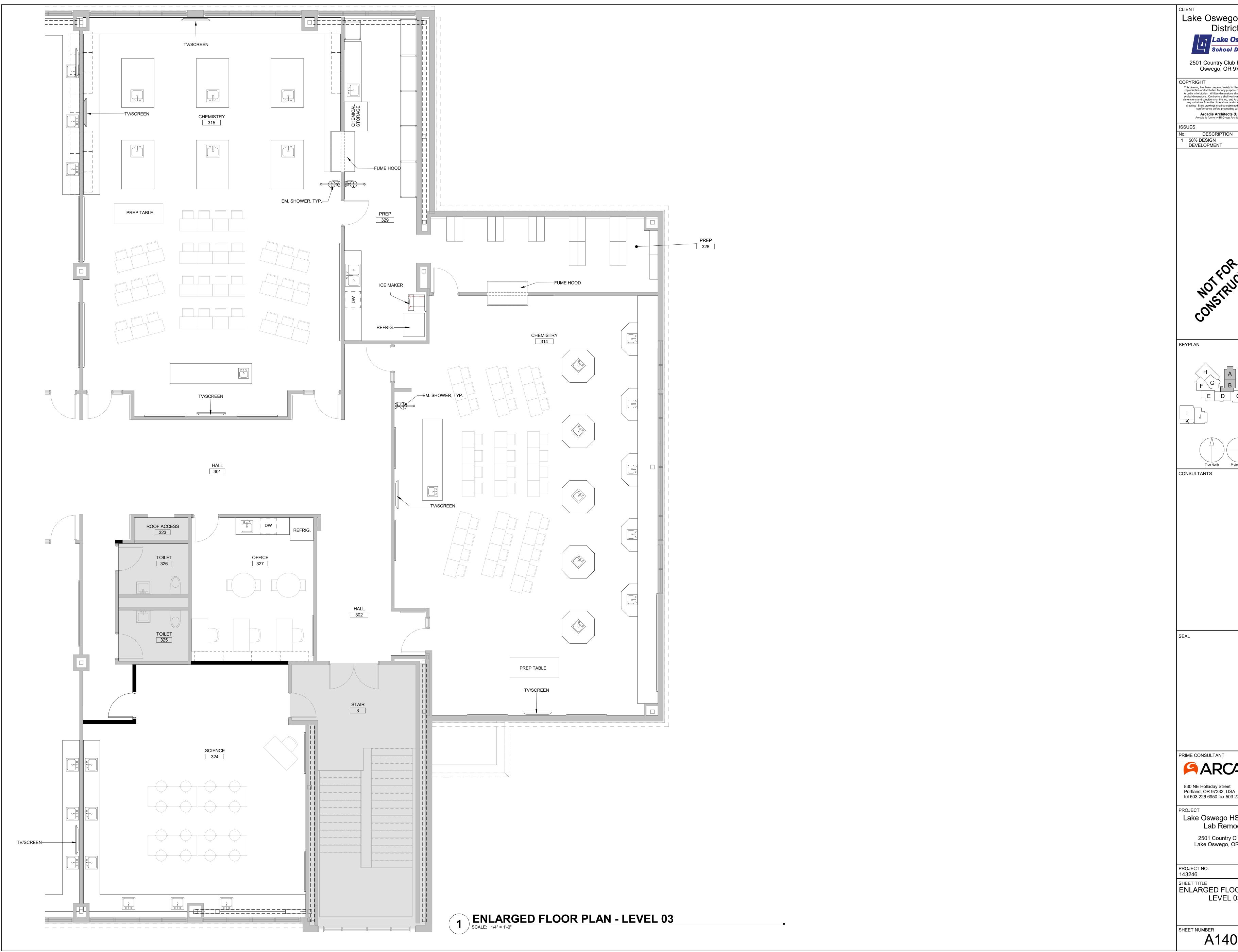
ARCADIS

830 NE Holladay Street Portland, OR 97232, USA tel 503 226 6950 fax 503 273 9192

Lake Oswego HS Science Lab Remodel 2501 Country Club Rd Lake Oswego, OR 97034

SHEET TITLE FLOOR PLAN - LEVEL 03

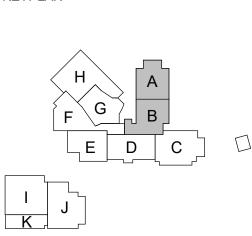
A1404



Lake Oswego School District Lake Oswego School District 2501 Country Club Rd, Lake Oswego, OR 97034

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1 50% DESIGN DEVELOPMENT 2023-11-15



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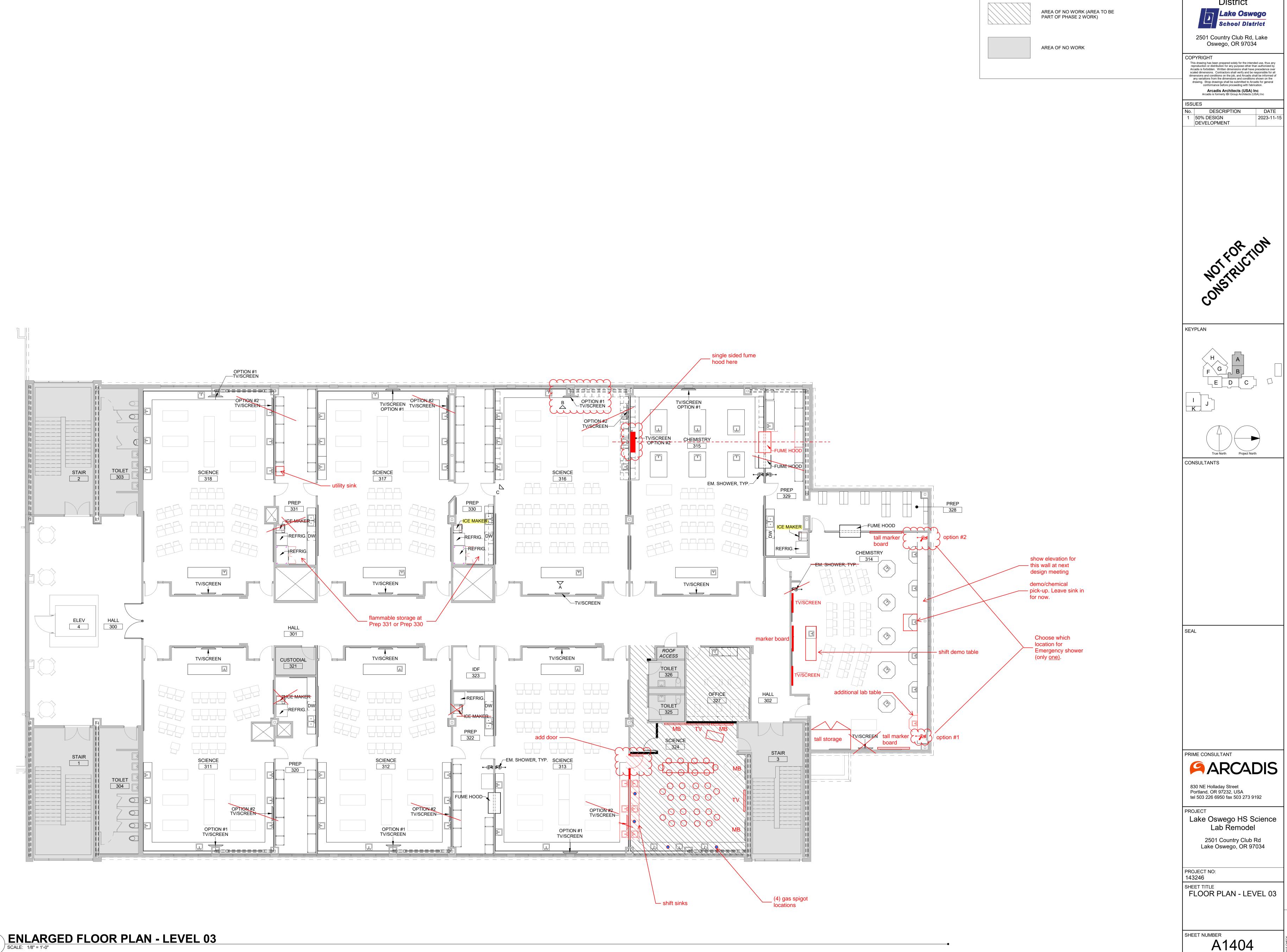
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SHEET TITLE
ENLARGED FLOOR PLAN - LEVEL 03

SHEET NUMBER

A1406



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FLOOR PLAN LEGEND: