

**BUSINESS AFFAIRS AND HUMAN RESOURCES**  
**APRIL 20, 2017**

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<b>TAB</b>	<b>DESCRIPTION</b>	<b>ACTION</b>
1	<b>INTERCOLLEGIATE ATHLETICS</b> FY2016 Revenue and Expenses Reports	Information Item
2	<b>INTERCOLLEGIATE ATHLETICS</b> FY2016 and FY2017 Compensation Reports	Information Item
3	<b>INTERCOLLEGIATE ATHLETICS</b> FY2016 Gender Equity Reports	Information Item
4	<b>FY2018 APPROPRIATIONS</b>	Motion to approve
5	<b>FY2019 BUDGET GUIDELINES</b>	Motion to approve
6	<b>FY2018 OPPORTUNITY SCHOLARSHIP EDUCATIONAL COSTS</b>	Motion to approve
7	<b>IDAHO STATE UNIVERSITY</b> Memorandum of Understanding – Idaho College of Osteopathic Medicine for Institutional Review Board Services	Motion to approve
8	<b>UNIVERSITY OF IDAHO</b> Space Lease – Gritman - WWAMI program	Motion to approve
9	<b>UNIVERSITY OF IDAHO</b> Athletic Limit Waiver	Motion to approve

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**BUSINESS AFFAIRS AND HUMAN RESOURCES**  
**APRIL 20, 2017**

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**SUBJECT**

Intercollegiate Athletics Reports of revenues and expenditures

**REFERENCE**

February 2016 Board received annual athletics revenues and expenditures reports.

**APPLICABLE STATUTE, RULE OR POLICY**

Idaho State Board of Education Governing Policies & Procedures, Section V.X.5.

**BACKGROUND/DISCUSSION**

Responsibility, management, control and reporting requirements for athletics are detailed in State Board of Education (Board) policy V.X. The college and universities are required to submit regular financial reports as specified by the Board office. For the universities, the revenue and expenditures reported must reconcile to the NCAA "Agreed Upon Procedures Reports" that are prepared annually and reviewed by the external auditors.

**IMPACT**

The reports of Revenues and Expenses are presented for each institution for fiscal year 2016.

**ATTACHMENTS**

Attachment 1	Boise State University	Page 3
Attachment 2	Idaho State University	Page 4
Attachment 3	University of Idaho	Page 5
Attachment 4	Lewis-Clark State College	Page 6

**STAFF COMMENTS AND RECOMMENDATIONS**

The Athletics Reports show actual results for fiscal year 2016.

**BOARD ACTION**

This item is for informational purposes only. Any action will be at the Board's discretion.

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BOISE STATE UNIVERSITY  
ATHLETICS DEPARTMENT  
SCHEDULE OF REVENUES AND EXPENSES  
FOR THE YEAR ENDED JUNE 30, 2016 (UNAUDITED)

	Football	Men's Basketball	Other Men's Sports	Women's Basketball	Women's Volleyball	Other Women's Sports	Non-Program Specific	Totals
<b>OPERATING REVENUES:</b>								
Ticket Sales	6,797,658	977,284	16,514	31,142	5,095	25,438	-	\$ 7,853,132
Student Fees	-	-	-	-	-	-	3,341,671	3,341,671
Guarantees	425,000	97,500	-	-	-	9,500	-	532,000
Contributions	4,752,952	1,024,511	98,517	-	-	76,273	3,945,932	9,898,185
Direct State/Govt Support	-	60,358	357,667	396,088	75,135	884,714	978,238	2,752,200
Direct Institutional Support	919,750	145,288	355,114	183,900	140,500	867,702	1,693,782	4,306,036
Indirect Facilities and Administrative Support	-	-	-	-	-	-	1,906,513	1,906,513
NCAA/Tournaments	422,964	163,418	115,354	28,838	38,451	192,257	-	961,283
Conference/ Tournaments	1,232,000	885,512	36,875	9,219	12,292	156,371	13,491	2,345,759
Broadcast TV/Radio Rights	1,883,725	89,144	62,925	15,731	20,975	104,875	-	2,177,375
Program/Novelty Sales, Concessionns, Parking	1,486,418	213,699	3,611	6,810	1,114	5,562	-	1,717,214
Royalty, Advertisement, Sponsorship	4,164,059	598,657	10,116	19,077	3,121	15,583	-	4,810,613
Sport Camp Revenues	344,110	9,684	67,343	15,778	72,457	261,315	-	770,686
Endowment/Investment Income	-	-	-	-	-	-	-	-
Other Revenues	767,129	2,584	3,085	83,973	1,373	97,778	921,837	1,877,759
Bowl Revenues	596,398	-	-	-	-	-	-	596,398
<b>Total operating revenues</b>	<b>\$ 23,792,163</b>	<b>\$ 4,267,639</b>	<b>\$ 1,127,122</b>	<b>\$ 790,556</b>	<b>\$ 370,513</b>	<b>\$ 2,697,367</b>	<b>\$ 12,801,464</b>	<b>\$ 45,846,824</b>
<b>OPERATING EXPENSES:</b>								
Athletics Student Aid	2,602,927	402,382	968,586	468,971	379,759	2,603,093	571,275	\$ 7,996,993
Guarantees	783,395	179,000	-	16,296	-	-	-	978,691
Coaching Salary/Benefits	4,653,720	1,388,979	694,324	746,108	288,310	1,428,957	214,554	9,414,951
Admin Staff Salary/Benefits	-	-	-	-	-	-	5,622,656	5,622,656
Severance Payments	-	-	-	-	-	-	-	-
Recruiting	275,866	141,560	31,931	95,756	18,752	89,820	-	653,684
Team Travel	682,057	388,138	286,844	350,162	124,355	654,610	5,914	2,492,081
Equipment, Uniforms and Supplies	916,014	79,128	61,695	37,570	9,410	194,774	322,288	1,620,879
Away Game Ticket Expense	285,215	25,234	8,600	25,234	-	12,352	-	356,634
Game Expenses	-	-	-	-	-	-	1,066,878	1,066,878
Fund Raising, Marketing, Promotion	-	-	-	-	-	-	236,027	236,027
Sports Camp Expenses	199,837	15,718	57,204	6,573	28,962	90,950	-	399,242
Direct Facilities/Maint/Rentals	5,124,672	858,094	120,062	835,673	-	246,513	1,554,962	8,739,977
Spirit Group	-	-	-	-	-	-	226,068	226,068
Indirect Facilities and Administrative Support	-	-	-	-	-	-	1,906,513	1,906,513
Medical Expenses & Insurance	-	-	-	-	-	-	697,249	697,249
Memberships & Dues	10,634	1,295	4,060	235	155	4,858	682,548	703,786
Other Operating Expenses	36,766	11,189	4,855	10,510	749	6,126	1,432,928	1,503,123
Student Athlete Meals (Non-Travel)	389,216	31,830	4,180	7,322	7,101	30,192	17,023	486,864
Bowl Expenses	628,559	-	-	-	-	-	-	628,559
<b>Total operating expenses</b>	<b>\$ 16,588,878</b>	<b>\$ 3,522,547</b>	<b>\$ 2,242,341</b>	<b>\$ 2,600,410</b>	<b>\$ 857,552</b>	<b>\$ 5,362,244</b>	<b>\$ 14,556,882</b>	<b>\$ 45,730,853</b>
<b>EXCESS (DEFICIENCY) OF REVENUES OVER (UNDER) EXPENSE</b>	<b>\$ 7,203,285</b>	<b>\$ 745,092</b>	<b>\$ (1,115,220)</b>	<b>\$ (1,809,853)</b>	<b>\$ (487,039)</b>	<b>\$ (2,664,876)</b>	<b>\$ (1,755,418)</b>	<b>\$ 115,971</b>

**IDAHO STATE UNIVERSITY ATHLETICS DEPARTMENT**  
**STATEMENT OF REVENUES AND EXPENSES**  
**YEAR ENDED JUNE 30, 2016 (UNAUDITED)**

**ATTACHMENT 2**  
**IDAHO STATE UNIVERSITY ATHLETICS DEPARTMENT**  
**STATEMENT OF REVENUES AND EXPENSES**  
**YEAR ENDED JUNE 30, 2016 (UNAUDITED)**

	Year Ended June 30, 2016 (unaudited)			Year Ended June 30, 2016 (unaudited)				
	Football	Basketball	Other Men's Sports	Women's Basketball	Women's Volleyball	Other Women's Sports	Non-Program Specific	Final Balance
<b>Operating Revenues</b>								
Ticket sales	\$ 222,002	\$ 68,642	\$ 1,873	\$ 24,025	\$ 9,502	\$ 7,956	\$ -	\$ 334,000
Direct state or other government support	786,036	348,523	152,202	284,119	134,703	789,093	1,061,024	3,555,700
Student fees	-	-	-	-	-	-	2,002,280	2,002,280
Direct institutional support	-	-	-	-	-	-	926,200	926,200
Guarantees	907,628	400,000	-	47,000	12,000	-	-	1,366,628
Contributions	118,673	41,500	1,335	12,194	5,691	51,060	311,780	542,233
In-Kind	125,435	70,510	6,452	52,730	12,583	29,089	212,014	508,813
Media rights	17,060	368	-	-	68	18	-	17,514
NCAA distributions	-	105,407	-	-	-	-	590,028	695,435
Conference distributions (non media or bowl)	(735)	4,958	56	4,688	(1,376)	629	3,565	11,785
Program, novelty, parking and concession sales	9,078	1,828	7,707	27,478	1,628	22,241	61,777	131,737
Royalties, licensing, advertisement and sponsorship:	-	-	-	-	-	800	525,998	526,798
Sports camp revenue	99,575	22,154	471	14,550	54,595	29,214	-	220,559
Other operating revenue	-	879	-	-	-	418	73	1,370
<b>Total operating revenues</b>	<b>2,284,752</b>	<b>1,064,769</b>	<b>170,096</b>	<b>466,784</b>	<b>229,394</b>	<b>930,518</b>	<b>5,694,739</b>	<b>10,841,052</b>
<b>Operating Expenses</b>								
Athletics student aid	890,408	218,961	193,838	238,659	166,576	734,745	71,043	2,514,230
Guarantees	56,351	15,851	-	10,044	-	4,571	-	86,817
Coaching salaries and benefits	562,670	354,695	157,056	290,555	161,053	453,099	104,311	2,083,439
Support staff/administrative salaries and benefits	238,423	16,262	1,954	2,287	1,914	16,268	1,367,757	1,644,865
Recruiting	59,035	44,212	8,412	27,818	18,707	55,020	28,515	241,719
Team travel	418,814	232,436	61,553	144,254	65,766	305,422	50,446	1,278,691
Sports equipment, uniforms and supplies	307,383	35,373	27,252	25,762	19,695	88,247	139,963	643,675
Game Expenses	76,300	84,738	3,951	77,200	15,225	26,221	95,330	378,965
Fund raising, marketing and promotion	54,910	39,520	1,550	33,898	2,248	4,489	79,745	216,360
Sports camp expenses	87,725	15,363	180	14,831	53,198	20,890	283	192,470
Spirit Groups	-	-	-	-	-	-	15	15
Direct overhead and administrative expenses	77,100	20,846	13,774	6,626	6,549	47,035	215,829	387,759
Medical expenses and insurance	528	-	-	-	50	15	361,488	362,081
Memberships and dues	100	200	845	805	675	775	50,194	53,594
Student-Athlete Meals (non-travel)	37,673	30,567	2,345	7,470	6,398	10,195	112	94,760
Other operating expenses	47,346	29,714	12,320	39,948	14,821	38,890	380,790	563,829
<b>Total operating expenses</b>	<b>2,914,766</b>	<b>1,138,738</b>	<b>485,030</b>	<b>920,157</b>	<b>532,875</b>	<b>1,805,882</b>	<b>2,945,821</b>	<b>10,743,269</b>
Excess (deficiency) of revenues over (under) expenses	\$ (630,014)	\$ (73,969)	\$ (314,934)	\$ (453,373)	\$ (303,481)	\$ (875,364)	\$ 2,748,918	\$ 97,783

UNIVERSITY OF IDAHO INTERCOLLEGIATE ATHLETICS DEPARTMENT  
STATEMENT OF REVENUES AND EXPENSES  
FOR THE YEAR ENDED JUNE 30, 2016 (UNAUDITED)

	Football	Men's Bball	Other Men's Sports	Women's Vball	Women's Bball	Other Women's Sports	Non Program Specific	Grand Total
<b>OPERATING REVENUES:</b>								
Ticket sales	\$ 568,053	\$ 44,509	\$ -	\$ 6,560	7,843	\$ 2,467	\$ -	\$ 629,432
Student fees	-	-	-	-	-	-	2,074,894	2,074,894
Direct institutional support	1,875,199	547,389	454,483	477,904	664,113	1,767,588	2,300,660	8,087,336
Indirect institutional support	-	-	-	-	-	-	556,219	556,219
Indirect Institutional support - athletic facilities debt service, lease & rental fees	-	-	-	-	-	-	1,070,322	1,070,322
Guarantees	2,100,000	115,000	-	6,000	46,500	8,600	-	2,276,100
Contributions	963,252	244,548	169,342	112,533	167,999	460,548	1,032,687	3,150,909
In-kind	29,400	12,600	-	4,200	4,200	-	12,600	63,000
Compensation and benefits provided by a third party	245,272	100,500	4,000	22,500	23,000	42,000	15,000	452,272
Media rights	100,000	245	-	53	-	-	75,000	175,298
NCAA distributions	182,099	36,164	87,615	35,113	74,261	176,227	462,021	1,053,500
Conference distributions (Non-media or bowl)	832,000	-	-	-	-	-	-	832,000
Program, novelty, parking and concession sales	17,749	1,451	-	254	3,615	77	-	23,146
Royalties, licensing, advertising and sponsorships	19,100	6,450	-	-	-	-	849,282	874,832
Sport camp revenues	102,030	2,400	-	47,386	5,320	-	-	157,136
Athletics restricted endowment and investment income	111,181	31,258	47,803	27,711	15,104	99,206	55,406	387,669
Other operating revenues	13,775	8,740	1,320	-	104	3,416	211,724	239,079
Total operating revenues	7,159,111	1,151,254	764,563	740,214	1,012,058	2,560,129	8,715,815	22,103,144
<b>OPERATING EXPENSES:</b>								
Athletic student aid	2,248,562	446,965	625,910	332,107	468,984	1,543,813	222,402	5,888,744
Guarantees	450,000	13,000	-	6,930	4,500	5,350	-	479,780
Coaching salaries, benefits and bonuses paid by UI	1,321,084	485,801	191,315	244,244	353,488	457,675	-	3,053,607
Coaching salaries, benefits and bonuses paid by a third party	245,272	100,500	4,000	22,500	23,000	-	-	437,272
Support staff/administrative compensation, benefits and bonuses paid by UI	102,966	61,029	10,296	4,014	-	11,688	2,518,333	2,708,325
Support staff/administrative compensation, benefits and bonuses paid a third party	-	-	-	-	-	-	15,000	15,000
Recruiting	193,210	91,013	12,531	27,406	65,064	70,895	-	460,119
Team travel	1,210,976	322,820	253,965	140,953	268,370	478,995	-	2,676,079
Sports equipment, uniforms and supplies	214,596	46,621	57,009	17,075	38,009	111,323	212,433	697,066
Game expenses	318,546	166,007	7,146	55,372	152,911	38,771	-	738,753
Fundraising, marketing and promotion	-	-	-	-	-	-	428,481	428,481
Sports camp expenses	66,172	5,551	-	49,238	1,746	-	-	122,707
Spirit groups	-	-	-	-	-	-	2,500	2,500
Athletic facilities debt service, leases and rental fee	-	-	-	-	-	-	1,185,997	1,185,997
Direct overhead and administrative expenses	3,670	1,939	299	1,019	1,379	2,956	29,493	40,754
Indirect institutional support	-	-	-	-	-	-	556,219	556,219
Medical expenses and insurance	-	-	7	-	-	-	463,455	463,462
Memberships and dues	-	2,680	890	355	-	5,510	156,896	166,331
Student athlete meals (non-travel)	31,205	8,436	1,039	782	4,350	8,733	40,334	94,879
Other operating expenses	400,123	169,629	27,760	28,254	60,475	106,721	637,609	1,430,571
Total operating expenses	6,806,382	1,921,991	1,192,167	930,249	1,442,275	2,884,430	6,469,151	21,646,645
<b>Excess (deficiency) of revenues over (under) expenses</b>	\$ 352,729	\$ (770,737)	\$ (427,604)	\$ (190,036)	\$ (430,216)	\$ (324,301)	\$ 2,246,664	\$ 456,499
<b>Other Reporting Items:</b>								
Conference realignment expenses	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 500,000	\$ 500,000
Total athletics related debt	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 23,295,000	\$ 23,295,000
Total institutional debt	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 188,888,167	\$ 188,888,167

See Notes to Statement of Revenues and Expenses

**Lewis-Clark State College Intercollegiate Athletics Department**  
**Statement of Revenues and Expenses**  
**For the Year Ended June 30, 2016**

	Baseball	Men's Basketball	Other Men's Sports	Women's Volleyball	Women's Basketball	Other Women's Sports	Non-Program Specific	Grand Total
<b>Operating Revenues</b>								
01 Ticket Sales	20,934	9,211	0	2,512	9,211	0	0	41,868
03 Student Fees	0	0	0	0	0	0	409,969	409,969
04 Direct Institutional Support	570,338	191,314	275,612	209,732	152,190	508,579	812,509	2,720,275
06 Indirect Institutional Support	0	0	0	0	0	0	271,893	271,893
07 Guarantees	0	0	0	0	0	0	0	0
08 Contributions	0	0	0	0	0	0	669,527	669,527
09 In-Kind	4,100	7,250	0	6,350	7,250	0	13,100	38,050
10 Compensation & Benefits Provided by 3rd Party	0	0	0	0	0	0	0	0
11 Media Rights	0	0	0	0	0	0	4,400	4,400
12 NCAA Distributions	0	0	0	0	0	0	0	0
13 Conference Distributions (Non-Media or Bowl)	0	0	0	0	0	0	672,805	672,805
14 Program, Novelty, Parking & Concessions	0	0	0	0	0	0	0	0
15 Royalties, Licensing, Advertising & Sponsorships	0	0	0	0	0	0	0	0
16 Sports Camp Revenues	13,080	41,112	0	0	21,397	0	37,863	113,452
17 Athletics Restricted Endowment & Investment Income	0	0	0	0	0	0	0	0
18 Other Operating Revenues	0	0	0	0	0	0	0	0
<b>Total Operating Revenues</b>	<b>608,452</b>	<b>248,886</b>	<b>275,612</b>	<b>218,594</b>	<b>190,048</b>	<b>508,579</b>	<b>2,892,067</b>	<b>4,942,239</b>
<b>Operating Expenditures</b>								
20 Athletic Student Aid	529,726	242,918	233,741	228,800	177,358	478,375	113,721	2,004,639
21 Guarantees	6,930	10,992	0	0	5,500	0	0	23,422
22 Coaching Salaries, Benefits & Bonuses	209,583	120,894	100,850	67,374	97,585	106,954	11,572	714,812
23 Coaching Salaries, Benefits & Bonuses Paid by 3rd Party	0	0	0	0	0	0	0	0
24 Support Staff/Admin Compensation Benefits & Bonuses	6,676	4,256	0	0	0	0	351,706	362,638
25 Support Staff/Admin Compensation Benefits & Bonuses Paid by 3rd Party	0	0	0	0	0	0	0	0
27 Recruiting	1,244	5,789	2,035	4,935	7,295	411	11,652	33,361
28 Team Travel	72,812	35,236	73,833	65,793	33,729	75,345	0	356,748
29 Sports Equipment, Uniforms & Supplies	36,564	19,536	38,358	25,843	26,068	52,320	29,270	227,959
30 Game Expenses	13,552	22,145	8,777	8,125	14,406	11,121	35,756	113,882
31 Fund Raising, Marketing & Promotion	0	0	0	0	0	0	0	0
32 Sports Camp Expenses	0	1,894	0	0	11,496	0	19,578	32,968
33 Spirit Groups	0	0	0	0	0	0	0	0
34 Athletic Facilities, Debt Service, Leases & Rental Fees	0	0	0	0	0	0	0	0
35 Direct Overhead & Administrative Expenses	0	0	0	0	0	0	0	0
36 Indirect Institutional Support	4,100	7,250	0	6,350	7,250	0	284,993	309,943
37 Medical Expenses & Insurance	0	0	0	0	0	0	15,600	15,600
38 Memberships & Dues	0	0	0	0	0	0	0	0
39 Other Operating Expenses	3,281	5,489	7,069	9,745	5,575	8,318	649,078	688,555
<b>Total Operating Expenditures</b>	<b>884,468</b>	<b>476,399</b>	<b>464,663</b>	<b>416,965</b>	<b>386,262</b>	<b>732,844</b>	<b>1,522,926</b>	<b>4,884,527</b>
<b>Excess (Deficiency) of Revenues Over (Under) Expenses</b>	<b>(276,016)</b>	<b>(227,513)</b>	<b>(189,051)</b>	<b>(198,371)</b>	<b>(196,214)</b>	<b>(224,265)</b>	<b>1,369,141</b>	<b>57,711</b>
<b>Other Reporting Items</b>								
42 Conference Realignment Expenses							0	0
43 Total Athletics Related Debt							0	0
44 Total Institutional Debt							1,768,828	1,768,828
45 Value of Athletics Dedicated Endowments							339,743	339,743
46 Value of Institutional Endowments							7,093,496	7,093,496

**BUSINESS AFFAIRS AND HUMAN RESOURCES**  
**APRIL 20, 2017**

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**SUBJECT**

Intercollegiate Athletics Department Employee Compensation Report

**REFERENCE**

February 2016 Board received FY 2015 athletics compensation reports

**APPLICABLE STATUTE, RULE OR POLICY**

Idaho State Board of Education Governing Policies & Procedures, Section II.H.

**BACKGROUND/ DISCUSSION**

In FY 1997 the Board adopted an annual report on the compensation of the employees of the intercollegiate athletic departments. The attached reports include FY 2016 actual compensation and FY 2017 estimated compensation for each institution.

**IMPACT**

The report details the contracted salary received by administrators and coaches, including bonuses, supplemental compensation and perquisites, if applicable.

**ATTACHMENTS**

Attachment 1 - Boise State University	FY16 Actual FY17 Estimate	Pages 3-4 Pages 5-6
Attachment 2 - Idaho State University	FY16 Actual FY17 Estimate	Pages 7-8 Pages 11-12
Attachment 3 - University of Idaho	FY16 Actual FY17 Estimate	Pages 13-15 Pages 17-18
Attachment 4 - Lewis-Clark State College	FY16 Actual FY17 Estimate	Pages 19-20 Pages 21-22

**STAFF COMMENTS AND RECOMMENDATIONS**

The Board has delegated, through Board policy II.B., to the Chief Executive Officer of each institution personnel management not specifically retained by the Board. Board policy II.H. authorizes the Chief Executive Officer of an institution to enter into a contract for the services of a coach or athletic director with that institution for a term of up to three (3) years. A contract with a term (whether fixed or rolling) of more than three (3) years, or with a total annual compensation amount of \$200,000 or higher, is subject to approval by the Board.

**BOARD ACTION**

This item is for informational purposes only. Any action will be at the Board's discretion.

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# Intercollegiate Athletics Compensation Report

## Boise State University

### FY2016 Actual Compensation

# ATTACHMENT 1

PCN	Depart/Name/Title	Athletic FTE	Compensation				Contract Bonus			Perks			Multi-Yr Contract	State Approp.	Funding		Base Salary Annualized Change		
			Base Salary	Camps/ Clinics	Media	Equip Co & Other	Academic Perform.	Winning Perform.	Other	Club Mbership	Car	Other			Program Revenue	All Other			
	Athletic Administration																		
3150	Aaron Juarez	Asst Sports Info Dir/Website Coord	1.000	40,623	0	0	500	0	0	0	0	No	No	No	No	40,623	-	500	2%
3530	Adam Herman	Director, Sports Performance Coach	1.000	75,816	0	0	2,000	0	0	0	0	No	No	No	No		75,816	2,000	3%
3502	Andy Atkinson	Director, Ath Info & Digital Tech	1.000	70,263	0	0	1,000	0	0	0	0	No	No	No	No		70,263	1,000	3%
3149	Anita Guerricabettia	Asst AD - Tkt Operations	1.000	71,781	0	0	1,000	0	0	0	0	No	No	No	No		71,781	1,000	2%
3167	Sarah Swanson	Director, Student Athlete Development	1.000	46,364	0	0	500	0	0	0	0	No	No	No	No	46,364	-	500	3%
3005	Natalie Keffer	Assistant Athletic Director, Development	1.000	63,316	0	0	1,000	0	0	0	0	No	No	No	No		63,316	1,000	-17%
3592	Bart Hendricks	Director, Development/Athletics	0.282	13,560	0	0	500	0	0	0	0	No	No	No	No		13,560	500	2%
1725	Brandon Voigt	Asst Athletic Trainer	1.000	40,269	413	0	500	0	0	0	0	No	No	No	No	40,269	-	913	3%
1770	Brayden Dunning	Director, Premium Seating	1.000	40,103	0	0	500	0	0	0	0	No	No	No	No		40,103	500	13%
3584	Christina Webster	Director, Annual Giving	1.000	40,103	0	0	500	0	0	0	0	No	No	No	No		40,103	500	New
1758	Benjamin Jaeger	Assistant Director, Sports Performance Coac	1.000	30,930	730	0	500	0	0	1,000	0	No	No	No	No		31,930	1,230	14%
1768	Caleb Howard	Coordinator, Video Services	1.000	37,586	0	0	500	0	0	0	0	No	No	No	No		37,586	500	3%
1717	Christina Van Tol	Sr. Assoc AD /Internal/SWA	1.000	118,061	0	0	2,500	0	0	0	0	No	Yes	No	No		118,061	2,500	4%
1772	Brandon Pringle	Assistant Coach, Strength & Conditioning/Fo	1.000	36,504	0	0	500	0	0	0	0	No	No	No	No		36,504	500	0%
1761	Kelly Lopez	Associate Director, Sports Performance Coa	1.000	42,245	0	0	500	0	0	0	0	No	No	No	No		42,245	500	16%
3190	Vacant	Assoc Athletic Director, Development	1.000	-	0	0	0	0	0	0	0	Yes	No	No	No		-	-	New
3549	Matt Brewer	Associate Athletic Director, Compliance	1.000	85,010	0	0	2,500	0	0	0	0	No	No	No	No		85,010	2,500	0%
3504	Cynthia Rice	Assistant Athletic Director, Business Ops	1.000	67,704	0	0	1,000	0	0	0	0	No	No	No	No	67,704	-	1,000	15%
1752	Dale Holste	Dir, Athletic Equipment Operations	1.000	57,471	5,000	0	2,000	0	0	0	0	No	No	No	No		57,471	7,000	2%
1766	Danielle Charters	Director-Compliance	1.000	47,320	0	0	500	0	0	0	0	No	No	No	No		47,320	500	3%
1739	David (DJ) Giumento	Asst AD, Facility Operations	1.000	57,845	0	0	1,000	0	0	0	0	No	No	No	No		57,845	1,000	3%
3030	Dustin Clements	Sr Associate Athletic Director, External Ops	0.248	24,802	0	0	2,500	0	0	0	0	Yes	Yes	No	No		24,802	2,500	11%
1727	Doug Link	Asst Sports Info Director	1.000	42,744	0	0	500	0	0	0	0	No	No	No	No		42,744	500	1%
3563	Eric Kile	Director, Student Athlete Learning Center	1.000	44,991	0	0	500	0	0	0	0	No	No	No	No	44,991	-	500	4%
1742	Linsey Saras	Coordinator, Athletic Game Operations	1.000	41,060	0	0	500	0	0	0	0	No	No	No	No		41,060	500	1%
3145	Gabe Rosenvall	Assoc AD, Student Athlete Development	1.000	73,445	0	0	2,000	4,000	0	0	0	No	No	No	No	73,445	4,000	2,000	4%
1700	Heather Berry	Assistant AD, Personnel	1.000	59,072	0	0	1,000	0	0	0	0	No	No	No	No		59,072	1,000	25%
1726	James Spooner	Asst Athletic Trainer	1.000	56,847	1,000	0	500	0	0	1,000	0	No	No	No	No	56,847	1,000	1,500	3%
3153	Jeff Pitman	Head Coach, Strength	1.000	138,612	4,750	0	2,000	2,500	0	3,000	0	No	No	No	No		144,112	6,750	0%
3132	Jennifer Bellomy	Assistant Athletic Director, Compliance	1.000	57,908	0	0	1,000	0	0	0	0	No	No	No	No		57,908	1,000	3%
1741	Christopher Nichol	Academic Advisor	1.000	39,916	0	0	500	0	0	0	0	No	No	No	No	39,916	-	500	2%
1767	John Perkins	Asst Director, Athletic Equipment Operations	1.000	36,858	0	0	500	0	0	0	0	No	No	No	No		36,858	500	2%
1751	Jolenne Dimeo	Facility Operations Supervisor	1.000	55,245	0	0	500	0	0	0	0	No	No	No	No		55,245	500	1%
1774	Joseph Nickell	Assistant Athletic Director, Media Relations	1.000	57,512	0	0	1,000	0	0	0	0	No	No	No	No		57,512	1,000	28%
3015	Vacant	Director, Sports Information	1.000	-	0	0	0	0	0	0	0	No	No	No	No		-	-	New
1771	Josh Borgman	Director, Creative Services	1.000	40,103	3,000	0	500	0	0	3,000	0	No	No	No	No		43,103	3,500	2%
1764	Justin LaChapelle	Athletic Technical Support Specialist	1.000	40,103	0	0	500	0	0	0	0	No	No	No	No		40,103	500	10%
1743	Keila Mintz	Accountant	1.000	42,058	0	0	500	0	0	0	0	No	No	No	No	42,058	-	500	3%
1776	Vacant	Accountant	1.000	40,100	0	0	0	0	0	0	0	No	No	No	No		40,100	-	New
1749	Keita Shimada	Asst Athletic Trainer	1.000	39,917	0	0	500	0	0	1,000	0	No	No	No	No		39,917	500	5%
1732	Kevin Riley	Coordinator, Video Services	1.000	40,103	1,000	0	500	0	0	3,000	0	No	No	No	No		43,103	1,500	2%
1760	Lauren Rodgers	Asst Athletic Trainer	1.000	37,232	0	0	500	0	0	1,000	0	No	No	No	No		38,232	500	2%
1728	Tyson Gale	Assistant Coach, Strength & Conditioning	1.000	36,504	1,750	0	500	0	0	0	0	No	No	No	No		36,504	2,250	0%
3950	Julie Rising	Coordinator, Athletic Events and Facilities	1.000	35,901	0	0	500	0	0	0	0	No	No	No	No		35,901	500	0%
1711	Marc Paul	Asst AD/Athletic Trainer	1.000	76,108	0	0	2,000	0	0	2,000	0	No	No	No	No		78,108	2,000	1%
1701	Curt Ansey	Executive Director, Athletics	1.000	331,511	0	0	2,000	15,000	17,500	20,000	0	Yes	Yes	No	Yes		384,011	2,000	New
3529	Gavin Boatright	Asst Director of Compliance	1.000	36,504	0	0	0	0	0	0	0	No	No	No	No	36,504	-	-	New
3125	Matthew Thomas	Asst AD, Mking & Promotions	1.000	60,008	0	0	1,000	0	0	0	0	No	No	No	No		60,008	1,000	0%
3154	Spencer Jahn	Director, Marketing & Promotions	1.000	43,015	0	0	500	0	0	0	0	No	No	No	No		43,015	500	20%
1703	Max Corbet	Assoc AD, Administration	1.000	66,602	0	0	2,500	0	0	0	0	No	No	No	No		66,602	2,500	1%
1763	Michael Walsh	Asst Sports Info Director & Web Coor	1.000	38,772	0	0	500	0	0	0	0	No	No	No	No		38,772	500	2%
1755	Vacant	Assistant Athletic Director, Administration	1.000	-	0	0	0	0	0	0	0	No	No	No	No		-	-	New
3194	Nicole Gamez	Associate Athletic Director, Business Affairs	1.000	94,037	0	0	1,000	0	0	0	0	No	No	No	No		94,037	1,000	2%
3023	Cody Smith	Asst Athletic Director, Event Operations	1.000	47,092	0	0	500	0	0	0	0	No	No	No	No		47,092	500	1%
1773	Paul Smith	Asst Athletic Trainer	1.000	35,901	0	0	500	0	0	0	0	No	No	No	No		35,901	500	0%
	Rachel Bickerton	Dir, Trademark Lic/Enforcement	0.437	35,007	0	0	250	0	0	0	0	No	No	No	No		35,007	250	0%
1753	Raul Ibarra	Assistant Director, Athletic Equipment Opera	1.000	43,160	0	0	500	0	0	0	0	No	No	No	No		43,160	500	2%
1759	Patricia Moran	Asst Athletic Director Finance	1.000	58,906	0	0	1,000	0	0	0	0	No	No	No	No		58,906	1,000	New
1702	Robert Carney	Assoc AD, Facilities and Operations	1.000	84,448	0	0	2,500	0	0	0	0	No	No	No	No		84,448	2,500	3%
3067	Sabrena Nottingham	Asst Ticket Manager	1.000	37,856	0	0	500	0	0	0	0	No	No	No	No		37,856	500	3%
1754	Scott Duncan	Facility Maintenance Supervisor	1.000	48,714	0	0	500	0	0	0	0	No	No	No	No		48,714	500	19%
3545	Shaela Priaulx-Soho	Ticket Manager	1.000	48,132	0	0	500	0	0	0	0	No	No	No	No		48,132	500	1%
3110	Taryn Schutte	Academic Advisor	1.000	36,504	0	0	500	0	0	0	0	No	No	No	No	36,504	-	500	3%
1736	Cameron Howard	Asst Director, Marketing & Promotions	1.000	36,504	0	0	0	0	0	0	0	No	No	No	No		36,504	-	New
3188	Vacant	Director, Donor Relations Events	0.750	-	0	0	0	0	0	0	0	No	No	No	No		-	-	New
3970	Syringa Stark	Athletic Insurance Coordinator	1.000	37,045	0	0	500	0	0	0	0	No	No	No	No		37,045	500	2%
3064	Taylor Little	Coordinator, Video Services	1.000	43,015	0	0	500	0	0	0	0	No	No	No	No		43,015	500	3%
1735	Ashley Hudson	Asst Athletic Trainer	1.000	36,504	0	0	500	0	0	0	0	No	No	No	No	-	36,504	500	3%
1724	Tobruk Everman Blaine	Head Cheer/Dance Coach	1.000	46,634	0	0	500	0	0	0	0	No	No	No	No		46,634	500	1%
1715	Tyler Smith	Assoc Athletic Trainer	1.000	56,847	0	0	500	0	0	1,000	0	No	No	No	No	56,847	1,000	500	3%

**Intercollegiate Athletics Compensation Report  
Boise State University  
FY2016 Actual Compensation**

**ATTACHMENT 1**

PCN	Depart/Name/Title	Athletic FTE	Compensation				Contract Bonus			Perks			Multi-Yr Contract	State Approp.	Funding		Base Salary Annualized Change	
			Base Salary	Camps/ Clinics	Media	Equip Co & Other	Academic Perform.	Winning Perform.	Other	Club Mbership	Car	Other			Program Revenue	All Other		
1704	Bryan Harsin Head Coach	1.000	800,010	0	0	3,000	50,000	0	35,000	Yes	Yes	No	Yes		885,010	3,000	0%	
3103	Zak Hill Offensive Coordinator	1.000	200,000	3,000	0	2,000	0	0	0	No	Yes	No	No		200,000	5,000	New	
1708	Gabe Franklin Defensive Coordinator	1.000	185,000	3,000	0	2,000	0	0	0	No	Yes	No	Yes		185,000	5,000	New	
3186	Kent Riddle Assistant Coach	1.000	275,018	3,000	0	2,000	5,000	0	3,000	No	Yes	No	No		283,018	5,000	4%	
3160	Steve Caldwell Assistant Coach	1.000	240,012	4,000	0	2,000	5,000	0	3,000	No	Yes	No	No		248,012	6,000	4%	
3162	Andy Avalos Assistant Coach	1.000	225,015	4,000	0	2,000	5,000	0	3,000	No	Yes	No	No		233,015	6,000	0%	
1707	Scott Huff Assistant Coach	1.000	285,002	4,000	0	2,000	5,000	0	3,000	No	Yes	No	No		293,002	6,000	6%	
3134	Lee Marks Assistant Coach	1.000	135,013	4,000	0	2,000	0	0	3,000	No	Yes	No	No		138,013	6,000	8%	
1706	Alton Adams Assistant Coach	1.000	185,016	4,000	0	2,000	5,000	0	3,000	No	Yes	No	No		193,016	6,000	0%	
1705	Ashley Ambrose Assistant Coach	1.000	150,000	3,000	0	2,000	0	0	0	No	Yes	No	No		150,000	5,000	New	
1730	+ Brian Wilkinson Director, Football Operations	1.000	76,503	4,750	0	2,000	5,000	0	3,000	No	No	No	No		84,503	6,750	0%	
1709	Taylor Tharp Director, Player Personnel	1.000	45,012	6,500	0	1,000	5,000	0	3,000	No	No	No	No		53,012	7,500	0%	
1762	TBD Assistant Director, Player Personnel	1.000	50,004	1,750	0	1,250	5,000	0	3,000	No	No	No	No		58,004	3,000	8%	
1750	Brad Larrondo Asst Athletic Director, Football	1.000	75,005	15,750	0	2,000	5,000	0	3,000	No	Yes	No	No		83,005	17,750	0%	
1765	Darren Uscher Coordinator of Football Operations	1.000	36,504	4,500	0	1,000	0	0	3,000	No	No	No	No		39,504	5,500	3%	
Basketball																		
1710	Leon Rice Head Coach	1.000	632,716	0	0	10,000	8,000	8,000	42,229	Yes	Yes	No	Yes		690,945	10,000	3%	
1714	Phil Beckner Assistant Coach, Men's Basketball	1.000	125,000	0	0	2,500	0	0	0	No	Yes	No	No		125,000	2,500	New	
1712	Mike Burns Associate Head Coach, Men's Basketball	1.000	125,000	0	0	2,500	0	0	0	No	Yes	No	No		125,000	2,500	New	
3133	John Rillie Assistant Coach, Men's Basketball	1.000	109,928	0	0	2,500	0	4,500	2,000	No	No	No	No		116,428	2,500	0%	
1745	TBD Director, Men's BB Operations	1.000	43,410	0	0	2,500	0	2,250	1,000	No	No	No	No	43,410	3,250	2,500	New	
Wrestling																		
1713	Mike Mendoza Head Coach	1.000	72,400	2,552	0	2,000	1,800	0	0	No	Yes	No	No	72,400	1,800	4,552	New	
3182	TBD Assistant Coach	1.000	44,450	0	0	0	0	0	0	No	No	No	No	44,450	-	-	New	
3180	TBD Assistant Coach	1.000	31,866	0	0	0	0	0	0	No	No	No	No	31,866	-	-	New	
Golf																		
3566	Dan Potter Head Coach	1.000	45,906	0	0	2,000	3,000	0	0	Yes	Yes	No	No		48,906	2,000	2%	
Tennis																		
3151	Greg Patton Head Coach	1.000	98,052	0	0	2,000	0	3,000	0	No	Yes	No	No		101,052	2,000	0%	
3178	Eric Diaz Assistant Coach	1.000	32,573	0	0	500	0	0	0	No	No	No	No	32,573	-	500	New	
Men/Women's Track & Field																		
2223	Corey Ihmels Head Coach	1.000	82,701	0	0	4,000	18,000	11,750	0	No	No	No	Yes		112,451	4,000	5%	
1719	Grant (Charles) Wall Assistant Coach	1.000	45,365	0	0	500	2,400	500	0	No	No	No	No	45,365	2,900	500	2%	
3177	Gavin O'Neal Assistant Coach	1.000	45,365	0	0	500	2,400	1,250	0	No	No	No	No	45,365	3,650	500	2%	
1721	Travis Hartke Assoc Head CC & Asst Track and Field Coac	1.000	45,365	0	0	500	3,600	4,000	0	No	No	No	No	45,365	7,600	500	2%	
Women's Sports																		
Basketball																		
2226	Gordon Presnell Head Coach	1.000	194,813	500	0	7,500	7,500	23,000	0	No	No	No	Yes		225,313	8,000	3%	
3181	Cariann Ramirez Assistant Coach	1.000	70,000	2,250	0	500	750	3,500	0	No	No	No	No	70,000	4,250	2,750	72%	
3129	Cody Butler Assistant Coach	1.000	74,464	900	0	500	1,500	7,000	0	No	Yes	No	No	62,463	20,501	1,400	23%	
1720	Heather Sower Assistant Coach	1.000	75,733	1,250	0	500	1,500	7,000	0	No	Yes	No	No	63,732	20,501	1,750	22%	
1744	Julia Fishman Dir, Women's BB Operations	1.000	36,500	15	0	500	750	3,500	0	No	No	No	No	36,500	4,250	515	New	
Soccer																		
1722	James Thomas Head Coach	1.000	81,224	22,000	0	2,000	2,000	0	0	No	No	No	No	53,596	29,628	24,000	2%	
1723	Edward Moore Assistant Coach	1.000	33,031	15,000	0	500	1,200	0	0	No	No	No	No	33,031	1,200	15,500	2%	
1748	Miren Zabala Assistant Coach	1.000	30,015	14,000	0	500	0	0	0	No	No	No	No		30,015	14,500	0%	
Volleyball																		
1716	Shawn Garus Head Coach	1.000	90,231	13,000	0	3,500	5,000	4,500	0	Yes	Yes	No	Yes		99,731	16,500	3%	
3176	Allison Buck Assistant Coach	1.000	32,273	8,137	0	500	1,200	750	0	No	No	No	No		34,223	8,637	New	
3130	Candy Murphy Assistant Coach	1.000	53,540	5,000	0	500	1,200	750	0	No	No	No	No	53,540	1,950	5,500	2%	
Gymnastics																		
1718	Neil Resnick Co-Head Coach	1.000	78,812	1,000	0	2,000	2,000	2,000	2,000	Yes	Yes	No	Yes	78,812	6,000	3,000	3%	
3174	Tina Bird Co-Head Coach	1.000	64,356	9,005	0	2,000	2,000	2,000	2,000	No	Yes	No	Yes		70,356	11,005	3%	
3164	Patti Murphy Assistant Coach	1.000	37,503	1,000	0	500	1,200	1,000	1,000	No	No	No	No	37,503	3,200	1,500	3%	
Tennis																		
3163	Sherman Roghaar Head Coach	1.000	56,535	8,432	0	2,000	4,000	0	0	No	No	No	Yes	56,535	4,000	10,432	8%	
3179	Kristian Widen Assistant Coach	1.000	28,330	8,239	0	500	0	0	0	No	No	No	No	28,330	-	8,739	New	
Golf																		
3127	Nicole Bird Head Coach	1.000	45,864	0	0	2,000	3,000	0	0	Yes	Yes	No	No	45,864	3,000	2,000	3%	
Softball																		
1737	Cynthia (Ball) Malone Head Coach	1.000	70,720	5,549	0	2,000	0	0	0	No	No	No	No	70,720	-	7,549	New	
1738	Bailey Wigness Assistant Coach	1.000	28,018	5,240	0	500	0	0	0	No	No	No	No	28,018	-	5,740	New	
1747	TBD Assistant Coach	1.000	32,615	4,309	0	500	0	0	0	No	No	No	No		32,615	4,809	New	
Swimming																		
1731	Jeremy Kipp Head Coach	1.000	80,018	0	0	0	0	0	0	No	Yes	No	Yes	80,018	-	-	New	
1733	Meghan Hawthorne Assistant Coach	1.000	39,000	0	0	500	0	0	0	No	No	No	No	-	39,000	500	New	
1746	Brandon Balisdell Diving Coach	1.000	45,012	0	0	500	0	0	0	No	No	No	No	45,012	-	500	New	

Notes: 9,604,860  
 \* Employee works 1 FTE at the University. The FTE and Base Salary on this report reflect the amount of the employee's salary which is funded by Athletics.  
 + Employee is on paid administrative leave.



**Intercollegiate Athletics Compensation Report  
Boise State University  
FY2017 Estimated Compensation**

**ATTACHMENT 2**

PCN	Depart/Name/Title	Athletic FTE	Compensation				Contract Bonus			Perks			Funding		Base Salary Annualized Change	Comments			
			Base Salary	Camps/ Clinics	Media	Equip Co & Other	Academic Perform.	Winning Perform.	Other	Club Mbership	Car	Other	Multi-Yr Contract	State Approp.			Program Revenue	All Other	
	Athletic Administration																		
3150	Aaron Juarez	Asst Sports Info Dir	1.000	47,508	0	0	500	0	0	0	0	No	No	No	No	47,508	-	500	17% FLSA
3530	Adam Herman	Director, Sports Performance Coach	1.000	77,730	0	0	2,000	0	0	2,000	No	No	No	No		79,730	2,000		3% CEC
3502	Andy Atkinson	Director, Ath Info & Digital Tech	1.000	71,511	0	0	1,000	0	0	0	No	No	No	No		71,511	1,000		2% CEC
3149	Anita Guerricabeitia	Asst AD - Tkt Operations	1.000	72,322	0	0	1,000	0	0	0	No	No	No	No		72,322	1,000		1% CEC
3167	Sarah Swanson	Director, Student Athlete Development	1.000	47,528	0	0	500	0	0	0	No	No	No	No	47,528	-	500		3% CEC
3005	Natalie Keffer	Assistant Athletic Director, Development	0.010	680	0	0	1,000	0	0	0	No	No	No	No		680	1,000		7% Promotion
3592	Bart Hendricks	Director, Development/Athletics	0.282	13,702	0	0	500	0	0	0	No	No	No	No		13,702	500		1% CEC
1725	Brandon Voigt	Asst Athletic Trainer	1.000	47,508	0	0	500	0	0	1,000	No	No	No	No	47,508	1,000	500		18% FLSA
1770	Brayden Dunning	Sr. Director, Development	1.000	50,000	0	0	500	0	0	0	No	No	No	No	50,000	500			25% Promotion
3584	Christina Webster	Director, Annual Giving	1.000	40,914	0	0	500	0	0	0	No	No	No	No	40,914	500			2% CEC
1758	Benjamin Jaeger	Assistant Director, Sports Performance Coa	1.000	35,900	730	0	500	0	0	1,000	No	No	No	No	36,900	1,230			16% FLSA
1768	Caleb Howard	Coordinator, Video Services	1.000	38,542	0	0	500	0	0	0	No	No	No	No	38,542	500			3% CEC
1717	Christina Van Tol	Sr. Assoc AD /Internal/SWA	1.000	121,015	0	0	2,500	0	0	2,000	No	Yes	No	No	123,015	2,500			3% CEC
1772	Brandon Pringle	Assistant Coach, Strength & Conditioning/Fc	1.000	37,420	0	0	500	0	0	0	No	No	No	No	37,420	500			3% CEC
1761	Kelly Lopez	Associate Director, Sports Performance Coa	1.000	43,306	0	0	500	0	0	1,000	No	No	No	No	44,306	500			3% CEC
3190	Vacant	Associate Athletic Director, Development	1.000	-	0	0	0	0	0	0	Yes	No	No	No	-	-			New Vacant
3549	Matt Brewer	Associate Athletic Director, Complianc	1.000	86,508	0	0	2,500	0	0	0	No	No	No	No	86,508	2,500			2% CEC
3504	Cynthia Rice	Assistant Athletic Director, Business Ops	1.000	69,576	0	0	1,000	0	0	0	No	No	No	No	69,576	-	1,000		3% CEC
1752	Dale Holste	Assoc Dir, Athletic Equipment Operations	1.000	57,907	5,000	0	2,000	0	0	1,000	No	No	No	No	58,907	7,000			1% CEC
1766	Danielle Charters	Director-Compliance	1.000	55,016	0	0	500	0	0	0	No	No	No	No	55,016	500			16% Equity
1739	Vacant	Asst AD, Facility Operations	1.000	-	0	0	0	0	0	0	No	No	No	No	-	-			New Vacant
3030	Dustin Clements	Senior Associate Athletic Director, External	1.000	100,008	0	0	2,500	0	0	0	Yes	Yes	No	No	100,008	2,500			0%
1727	Doug Link	Asst Sports Info Director	1.000	47,508	0	0	500	0	0	0	No	No	No	No	47,508	500			11% FLSA
3563	Eric Kile	Director, Student Athlete Learning Center	1.000	46,135	0	0	500	0	0	0	No	No	No	No	46,135	500			3% CEC
1742	Linsey Hartke	Manager, Athletic Game Operations	1.000	47,508	0	0	500	0	0	0	No	No	No	No	47,508	500			16% FLSA
3145	Gabe Rosenvall	Assoc AD, Student Athlete Development	1.000	75,837	0	0	2,500	4,000	0	0	No	No	No	No	75,837	4,000	2,500		3% CEC
1700	Heather Berry	Assistant AD, Personnel	1.000	61,007	0	0	1,000	0	0	0	No	No	No	No	61,007	1,000			3% CEC
1726	James Spooner	Assoc. Athletic Trainer	1.000	57,990	1,000	0	1,000	0	0	1,000	No	No	No	No	57,990	1,000	2,000		2% CEC
3153	Jeff Pitman	Head Coach, Strength-Football	1.000	141,045	4,750	0	2,000	2,500	0	3,000	No	No	No	No	146,545	6,750			2% CEC
1742	Jennifer Bellomy	Assistant Athletic Director, Compliance	1.000	64,335	0	0	1,000	0	0	0	No	No	No	No	64,335	1,000			11% Equity
3131	Christopher Nichol	Academic Advisor	1.000	40,726	0	0	500	0	0	0	No	No	No	No	40,726	-	500		2% CEC
1767	Kevin Haynes	Asst Director, Athletic Equipment Operations	1.000	37,212	0	0	500	0	0	0	No	No	No	No	37,212	500			New
1751	Jolene Dimeo	Facility Operations Supervisor	1.000	56,638	0	0	500	0	0	0	No	No	No	No	56,638	500			3% CEC
1774	Joseph Nickell	Assistant Athletic Director, Media Relations	1.000	58,677	0	0	1,000	0	0	0	No	No	No	No	58,677	1,000			2% CEC
3015	Vacant	Director, Sports Information	1.000	46,260	0	0	0	0	0	0	No	No	No	No	46,260	-			New Vacant
1771	Vacant	Director, Creative Services	1.000	40,103	0	0	0	0	0	0	No	No	No	No	40,103	-			New Vacant
1764	Justin LaChapelle	Athletic Technical Support Specialist	1.000	47,508	0	0	500	0	0	0	No	No	No	No	47,508	500			18% FLSA
1743	Matthew Mayer	Assistant Business Manager	1.000	40,914	0	0	500	0	0	0	No	No	No	No	40,914	-	500		New
1776	Brett Herring	Business Office Analyst	1.000	40,103	0	0	500	0	0	0	No	No	No	No	40,103	500			New
1749	Keita Shimada	Assoc. Athletic Trainer	1.000	48,714	0	0	500	0	0	1,000	No	No	No	No	49,714	500			25% Promotion
1760	Lauren Rodgers	Asst Athletic Trainer	1.000	47,508	0	0	500	0	0	1,000	No	No	No	No	48,508	500			28% FLSA
1728	Tyson Gale	Assistant Coach, FB Strength & Conditioning	1.000	37,420	1,750	0	500	0	0	2,000	No	No	No	No	39,420	2,250			3% CEC
3950	Julie Rising	Asst Manager, Athletic Events and Facilities	1.000	41,018	0	0	500	0	0	0	No	No	No	No	41,018	500			14% Promotion
1711	Marc Paul	Assoc. AD/Athletic Trainer	1.000	77,460	0	0	2,500	0	0	2,000	No	No	No	No	79,460	2,500			2% CEC
1701	Curt Apsey	Executive Director, Athletics	1.000	339,810	0	0	2,000	7,500	17,500	20,000	Yes	Yes	No	Yes	384,810	2,000			3% CEC
3529	Vacant	Asst Director of Compliance	1.000	-	0	0	0	0	0	0	No	No	No	No	-	-			New Vacant
3125	Matthew Thomas	Asst AD, Mktg & Promotions	1.000	61,215	0	0	1,000	0	0	0	No	No	No	No	61,215	1,000			2% CEC
3154	Spencer Jahn	Director, Marketing & Promotions	1.000	47,508	0	0	500	0	0	0	No	No	No	No	47,508	500			10% CEC
1703	Max Corbet	Assoc AD, Administration	1.000	67,788	0	0	2,500	0	0	0	No	No	No	No	67,788	2,500			2% CEC
1763	Michael Walsh	Asst Sports Info Director & Web Coor	1.000	47,508	0	0	500	0	0	0	No	No	No	No	47,508	500			23% FLSA
3194	Nicole Gamez	Associate Athletic Director, Business Affairs	1.000	95,930	0	0	1,500	0	0	0	No	No	No	No	95,930	1,500			2% CEC
3023	Cody Smith	Asst Athletic Director, Event Operations	1.000	58,012	0	0	1,000	0	0	0	No	No	No	No	58,012	1,000			23% Promotion
1773	Paul Smith	Asst Athletic Trainer	1.000	47,508	0	0	500	0	0	1,000	No	No	No	No	48,508	500			32% FLSA
1753	Raul Ibarra	Assistant Director, Athletic Equipment Oper	1.000	43,493	0	0	500	0	0	0	No	No	No	No	43,493	500			1% CEC
1759	Patricia Moran	Asst Athletic Director Finance	1.000	60,112	0	0	1,000	0	0	0	No	No	No	No	60,112	1,000			2% CEC
1702	Robert Carney	Assoc AD, Facilities and Operations	1.000	91,167	0	0	2,500	0	0	0	No	No	No	No	91,167	2,500			8% Equity
3067	Tyler Ostler	Asst Ticket Manager	1.000	28,413	0	0	500	0	0	0	No	No	No	No	28,413	500			New
1754	Scott Duncan	Facility Maintenance Supervisor	1.000	49,941	0	0	500	0	0	0	No	No	No	No	49,941	500			3% CEC
3545	Shaela Priaulx-Soho	Ticket Manager	1.000	48,984	0	0	500	0	0	0	No	No	No	No	48,984	500			2% CEC
3110	Taryn Schutte	Academic Advisor	1.000	37,420	0	0	500	0	0	0	No	No	No	No	37,420	-	500		3% CEC
1736	Cameron Howard	Asst Director, Marketing & Promotions	1.000	36,504	0	0	500	0	0	0	No	No	No	No	36,504	500			0%
3188	Katie Tuller	Director, Special Events	1.000	41,018	0	0	500	0	0	0	No	No	No	No	41,018	500			New
3970	Syringa Stark	Athletic Insurance Coordinator	1.000	37,981	0	0	500	0	0	0	No	No	No	No	37,981	500			3% CEC
3064	Taylor Little	Coordinator, Video Services	1.000	47,508	0	0	500	0	0	0	No	No	No	No	47,508	500			10% FLSA
1735	Ashley Hudson	Asst Athletic Trainer	1.000	47,508	0	0	500	0	0	1,000	No	No	No	No	48,508	500			30% FLSA
1724	Tobruk Everman Blaine	Head Cheer/Dance Coach	1.000	47,570	0	0	500	0	0	0	No	No	No	No	47,570	500			2% CEC
1715	Tyler Smith	Assoc Athletic Trainer	1.000	57,991	0	0	1,000	0	0	1,000	No	No	No	No	57,991	1,000	1,000		2% CEC
3806	Nicole Denno	Assistant Athletic Trainer	1.000	47,508	0	0	500	0	0	0	No	No	No	No	47,508	500			New
3947	Victoria Lewis	Assistant Business Manager	1.000	42,349	0	0	500	0	0	0	No	No	No	No	42,349	500			3% CEC

**Intercollegiate Athletics Compensation Report  
Boise State University  
FY2017 Estimated Compensation**

**ATTACHMENT 2**

PCN	Depart/Name/Title	Compensation				Contract Bonus			Perks			Multi-Yr Contract	State Approp.	Funding		Base Salary Annualized Change	Comments
		Athletic FTE	Base Salary	Camps/ Clinics	Media	Equip Co & Other	Academic Perform.	Winning Perform.	Other	Club Mbership	Car			Other	Program Revenue		
	Men's Sports																
	Football					Nike	APR	Winning	Bowl/Other								
1704	Bryan Harsin Head Coach	1.000	1,350,004	0	0	3,000	50,000	0	35,000	Yes	Yes	No	Yes		1,435,004	3,000	69% Contract
3103	Kent Riddle Assoc HC- TE/Spc Team Coord	1.000	275,018	3,000	0	2,000	0	0	3,000	No	Yes	No	Yes		278,018	5,000	0%
1708	Steve Caldwell Asst HC-Defensive Line	1.000	240,012	3,000	0	2,000	5,000	0	3,000	No	Yes	No	No		248,012	5,000	0%
3186	Zak Hill Co Offensive Coordinator	1.000	215,010	3,000	0	2,000	5,000	0	3,000	No	Yes	No	No		223,010	5,000	8%
3160	Scott Huff Co Offensive Coordinator	1.000	285,002	3,000	0	2,000	5,000	0	3,000	No	Yes	No	Yes		293,002	5,000	0%
3162	Andy Avalos Defensive Coordinator	1.000	305,012	3,000	0	2,000	5,000	0	3,000	No	Yes	No	Yes		313,012	5,000	36% Promotion
1707	Eric Kiesau Assistant Coach	1.000	185,000	3,000	0	2,000	2,500	0	0	No	Yes	No	No		187,500	5,000	New
3134	Ashley Ambrose Assistant Coach	1.000	200,013	3,000	0	2,000	5,000	0	3,000	No	Yes	No	No		208,013	5,000	33%
1706	Gabe Franklin Assistant Coach	1.000	185,016	3,000	0	2,000	5,000	0	3,000	No	Yes	No	No		193,016	5,000	0%
1705	Lee Marks Assistant Coach	1.000	135,013	3,000	0	2,000	5,000	0	3,000	No	Yes	No	No		143,013	5,000	0%
1730	Taylor Tharp Director, Football Operations/Ext Relations	1.000	55,994	3,000	0	2,000	5,000	0	3,000	No	No	No	No		63,994	5,000	24% Promotion
1709	Chris Ross Director, Program Development	1.000	85,010	3,000	0	2,000	5,000	0	3,000	No	No	No	No		93,010	5,000	New
1762	TBD Assistant Coach, Recruiting/Ops	1.000	46,925	-	0	0	0	0	0	No	No	No	No		46,925	-	New Vacant
1732	Kevin Riley Dir. FB Video/Technology	1.000	49,338	1,000	0	500	0	0	3,000	No	No	No	No		52,338	1,500	23% Promotion
1750	Brad Larrondo Assoc Athletic Director, Football	1.000	91,583	10,000	0	2,500	5,000	0	3,000	No	Yes	No	No		99,583	12,500	22% Promotion
1765	Darren Uscher Director of Recruiting	1.000	49,941	3,000	0	1,000	0	0	3,000	No	No	No	No		52,941	4,000	37% Promotion
	Basketball																
1710	Leon Rice Head Coach	1.000	650,000	0	0	10,000	8,000	8,000	45,000	Yes	Yes	No	Yes		711,000	10,000	3% Contract
1714	Phil Beckner Assistant Coach, Men's Basketball	1.000	125,008	0	0	2,500	1,500	4,500	2,000	No	Yes	No	No		133,008	2,500	0%
1712	Mike Burns Assistant Coach, Men's Basketball	1.000	125,008	0	0	2,500	1,500	4,500	2,000	No	No	No	No		133,008	2,500	0%
3133	John Rillie Assistant Coach, Men's Basketball	1.000	125,008	0	0	2,500	1,500	4,500	2,000	No	No	No	No		133,008	2,500	14% Promotion
1745	Jake White Director, Men's BB Operations	1.000	47,508	0	0	2,500	750	2,250	1,000	No	No	No	No	47,508	4,000	2,500	New
	Wrestling																
1713	Mike Mendoza Head Coach	1.000	72,405	400	0	2,000	1,800	0	0	No	Yes	No	No	72,405	1,800	2,400	0%
3182	Riley Orozco Assistant Coach	1.000	45,012	1,400	0	500	1,100	0	0	No	No	No	No	45,012	1,100	1,900	New
3180	Levi Jones Assistant Coach	1.000	32,136	0	0	500	1,100	0	0	No	No	No	No	32,136	1,100	500	New
	Golf																
3566	Dan Potter Head Coach	1.000	47,071	0	0	2,000	3,000	0	0	Yes	Yes	No	No		50,071	2,000	3% CEC
	Tennis																
3151	Greg Patton Head Coach	1.000	98,800	0	0	2,000	1,600	3,000	0	No	Yes	No	No		103,400	2,000	1% CEC
3178	Greg Ouellette Assistant Coach	1.000	33,426	0	0	500	1,000	0	0	No	No	No	No	33,426	1,000	500	New
	Men/Women's Track & Field																
2223	Corey Ihmels Head Coach	1.000	107,016	0	0	4,000	18,000	17,250	0	No	No	No	Yes		142,266	4,000	29% Contract
1719	Patrick McCurry Assistant Coach	1.000	45,844	0	0	500	2,400	1,250	0	No	No	No	No	45,844	3,650	500	New
3177	Gavin O'Neal Assistant Coach	1.000	46,280	0	0	500	2,400	1,250	0	No	No	No	No	46,280	3,650	500	2% CEC
1721	Travis Hartke Assoc Head CC & Asst Track and Field Coa	1.000	46,613	0	0	500	3,600	4,500	0	No	No	No	No	46,613	8,100	500	3% CEC
	Women's Sports																
	Basketball																
2226	Gordon Presnell Head Coach	1.000	220,000	500	0	7,500	7,500	5,000	0	No	No	No	Yes		232,500	8,000	13% Contract
3181	Cody Butler Assistant Coach	1.000	90,002	1,000	0	500	1,500	3,000	0	No	Yes	No	No	90,002	4,500	1,500	21% Promotion
3129	Heather Sower Assistant Coach	1.000	76,503	1,000	0	500	1,500	3,000	0	No	Yes	No	No	62,463	18,540	1,500	1% Promotion
1720	Cariann Ramirez Assistant Coach	1.000	70,013	1,000	0	500	1,500	3,000	0	No	No	No	No	63,732	10,781	1,500	0% Promotion
1744	Julia Fishman Dir, Women's BB Operations	1.000	47,508	2,000	0	500	750	1,000	0	No	No	No	No	47,508	1,750	2,500	30% FLSA
	Soccer																
1722	James Thomas Head Coach	1.000	82,660	22,000	0	2,000	2,000	5,000	0	No	Yes	No	No	53,596	36,064	24,000	2% CEC
1723	Edward Moore Assistant Coach	1.000	33,863	7,000	0	1,000	1,200	2,500	0	No	No	No	No	33,863	3,700	8,000	3% CEC
1748	Miren Zabala Assistant Coach	1.000	30,784	5,000	0	1,000	1,200	2,500	0	No	No	No	No	34,484	6,000		3% CEC
	Volleyball																
1716	Shawn Garus Head Coach	1.000	100,007	13,000	0	3,500	5,000	4,500	0	Yes	Yes	No	Yes		109,507	16,500	11% Contract
3176	Allison Buck Assistant Coach	1.000	32,282	7,000	0	500	1,200	1,000	0	No	No	No	No	32,282	2,200	7,500	0%
3130	Candy Murphy Assistant Coach	1.000	55,016	5,000	0	500	1,200	1,000	0	No	No	No	No	55,016	2,200	5,500	3% CEC
	Gymnastics																
1718	Neil Resnick Co-Head Coach	1.000	78,812	500	0	2,000	2,000	2,000	2,000	Yes	Yes	No	Yes	78,812	6,000	2,500	0% Contract
3174	Tina Bird Co-Head Coach	1.000	70,013	10,000	0	2,000	2,000	2,000	2,000	No	Yes	No	Yes		76,013	12,000	9% Contract
3164	Patti Murphy Assistant Coach	1.000	38,460	500	0	1,200	1,200	1,000	1,000	No	No	No	No	38,460	3,200	1,700	3% CEC
	Tennis																
3163	Sherman Roghaar Head Coach	1.000	59,923	5,000	0	2,000	4,000	0	0	No	No	No	Yes	59,923	4,000	7,000	6% Contract
3179	Kristian Widen Assistant Coach	1.000	33,414	5,000	0	500	0	0	0	No	No	No	No	33,414	-	5,500	18% Promotion
	Golf																
3127	Nicole Bird Head Coach	1.000	47,029	0	0	2,000	3,000	0	0	Yes	Yes	No	No	47,029	3,000	2,000	3% CEC
	Softball																
1737	Cynthia Ball Head Coach	1.000	71,428	0	0	2,000	1,400	2,000	0	No	No	No	No	71,428	3,400	2,000	New CEC
1738	Bailey Wigness Assistant Coach	1.000	30,680	0	0	1,000	900	0	0	No	No	No	No	30,680	900	1,000	10% Promotion
1747	Joel Oliver Assistant Coach	1.000	30,680	0	0	1,000	900	0	0	No	No	No	No	30,680	900	1,000	New
	Swimming																
1731	Jeremy Kipp Head Coach	1.000	81,432	0	0	2,000	3,000	3,000	0	No	Yes	No	Yes	81,432	6,000	2,000	New Contract
1733	Meghan Hawthorne Assistant Coach	1.000	39,791	0	0	500	1,200	1,000	0	No	No	No	No	39,791	2,200	500	New
1746	Brandon Blaisdell Diving Coach	1.000	45,927	0	0	500	1,200	1,000	0	No	No	No	No	45,012	3,115	500	New

Notes: 10,714,226  
\* Employee works 1 FTE at the University. The FTE and Base Salary on this report reflect the amount of the employee's salary which is funded by Athletics.

**Intercollegiate Athletics Compensation Report  
Idaho State University  
FY 2016 Actual Compensation**

Depart/Name/Title	Athletic FTE	Compensation				Contract Bonuses			Perks			Multi-Yr Contract	Funding			
		Base Salary	Camps/Clinics	Media	Equip Co & Other	Academic Perform.	Winning Perform..	Other	Club Mbership	Car	Other		State Approp.	Program Revenue	All Other	
<b>Athletic Administration:</b>																
Jeff Tingey		Athletic Director	1.00	125,778		15,000		4,000		4,838	Yes	Yes	Yes	125,778	23,838	
Jim Kramer		Asst Athl Dir/ UBO	1.00	71,802									No	71,802		
Nancy Graziano		Assoc Athl Dir/Compliance	1.00	76,024									No	76,024		
Matthew Steuart		Dir Academic Services	1.00	47,237									No		47,237	
Steve Schaack		Asst AD - Media Relations	1.00	54,995									No	54,995		
Jenna Galloway		Asst Dir Media Relations	0.90	32,449									No	32,449		
Jodi Wotowey		Head Athletic Trainer	1.00	51,646	252								No	51,646		252
Brandon Payne		Asst Trainer	1.00	38,854	189								No	38,854		189
Daryl Finch		Asst Trainer	1.00	38,106	660								No	38,106		660
Rachel Geoghegan	(A)	Asst Trainer	0.42	16,324									No	16,324		
Elizabeth Reinstein	(B)	Asst Trainer	0.48	17,829	415								No	17,829		415
Kristin Shuman		Strength Coach	0.96	42,320									No	42,320		
Kalee Ralphs		Director of Marketing & Promos	1.00	40,394									No		40,394	
Thomas Steiner	(A)	Asst AD/ Major Gifts	0.21	10,149									No		10,149	
Tyson Munns	(B)	Asst AD/ Major Gifts	0.73	35,082									No		35,082	
Tyson Munns	(A)	Athletic Equipment Manager	0.27	10,461									No	10,461		
Robert Crompton	(B)	Athletic Equipment Manager	0.39	14,084									No	14,084		
<b>Bengal Foundation</b>																
Donna Hayes		Exec Dir Bengal Foundation	1.00	49,483									No		49,483	
<b>Men's Sports</b>																
<b>Football</b>																
Mike Kramer		Hd Coach	0.91	149,720						7,500		Yes	Yes	149,720	7,500	
Spencer Toone		Asst Coach/Defense Coordinator	1.00	55,016	5,200								No	55,016		5,200
Sheldon Cross	(A)	Asst Coach	0.71	39,019								Yes	No	39,019		
Dorian Keller	(B)	Asst Coach	0.29	11,544	5,200							Yes	No	11,544		5,200
Roger Cooper		Asst Head Coach - Def Line/Acad Liason	1.00	50,003	12,000								No	50,003		12,000
Braeden Clayson		Dir of Football Operations/Video Coord.	1.00	36,629									No	36,629		
Steven Fifita		Asst Coach - Defensive Line	1.00	40,019	5,200								No	40,019		5,200
Matthew Troxel		Asst Coach	1.00	51,835	9,000							Yes	No	51,835		9,000
Robert Phenicie		Asst Coach	1.00	43,667	5,200								No	43,667		5,200
Stanley Franks		Asst Coach - Defensive Backs	1.00	40,019	5,200								No	40,019		5,200
Tevita Fiefia		Asst Coach	1.00	40,019	5,200								No	40,019		5,200
<b>Basketball</b>																
William Evans		Hd Coach	0.95	103,114	1,600	20,000		1,000	4,153				Yes	103,114	25,153	1,600
Andrew Ward		Asst Coach	1.00	63,710	1,600								Yes	63,710		1,600
Jay Collins		Asst Coach	1.00	41,662	1,600								No	41,662		1,600
Tim Walsh		Asst Coach	1.00	42,515	1,600								No	42,515		1,600
<b>Tennis</b>																
Robert Goeltz	(A)	Hd Coach	0.10	4,898									No	4,898		
Gretchen Maloney	(B)	Hd Coach	0.44	20,739									No	20,739		
Mark Rodel		Asst Coach	0.33	13,547									No	13,547		

(A) = indicates previous coach / employee

(B) = indicates current coach / employee

**Intercollegiate Athletics Compensation Report  
Idaho State University  
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Depart/Name/Title	Athletic FTE	Compensation				Contract Bonuses			Perks			Multi-Yr Contract	Funding		
		Base Salary	Camps/Clinics	Media	Equip Co & Other	Academic Perform.	Winning Perform..	Other	Club Mbership	Car	Other		State Approp.	Program Revenue	All Other
<b>Track &amp; Field</b>															
David Nielsen	(A)	Hd Coach	0.43	26,641								No	26,641		
Hillary L. Merkley	(B)	Hd Coach	0.14	7,659								No	7,659		
Hillary L. Merkley		Asst Coach	0.35	11,554								No	11,554		
<b>Cross Country</b>															
Nathan Houle		Hd Coach	0.50	22,198								No	22,198		
<b>Women's Sports</b>															
<b>Basketball</b>															
Seton Sobolewski		Hd Coach	0.95	96,599		5,000		2,100		Yes		Yes	96,599	7,100	
Michael Trujillo		Asst Coach	1.00	46,363	1,535					Yes		No	46,363		1,535
Ryan Johnson		Asst Coach	1.00	30,950	1,535							No	30,950		1,535
Andrea Videbeck		Asst Coach	0.96	25,743	300							No	25,743		300
<b>Volleyball</b>															
Fredrick Reynolds		Hd Coach	0.91	62,803	6,000					Yes		Yes	62,803		6,000
Keisha Fisher		Asst Coach	1.00	30,618	4,000							No	30,618		4,000
<b>Tennis</b>															
Robert Goeltz	(A)	Hd Coach	0.10	4,898								No	4,898		
Gretchen Maloney	(B)	Hd Coach	0.44	20,739								No	20,739		
Mark Rodel		Asst Coach	0.33	13,547								No	13,547		
<b>Track &amp; Field</b>															
David Nielsen	(A)	Hd Coach	0.43	26,641								No	26,641		
Hillary L. Merkley	(B)	Hd Coach	0.14	7,659								No	7,659		
Hillary L. Merkley		Asst Coach	0.35	11,554								No	11,554		
<b>Golf</b>															
Kelly Hooper		Hd Coach	0.20	10,128								No	10,128		
<b>Cross Country</b>															
Nathan Houle		Hd Coach	0.50	22,198								No	22,198		
<b>Soccer</b>															
Allison Gibson		Hd Coach	1.00	65,894	3,800			1,500			Yes	Yes	65,894		5,300
Christopher Cogan		Asst Coach	0.88	27,242	1,880							No	27,242		1,880
<b>Softball</b>															
Julia Wright	(A)	Hd Coach	0.15	11,591						Yes		Yes	11,591		
Candi Letts	(B)	Hd Coach	0.80	46,272								Yes	46,272		
Jessica Moore	(A)	Asst Coach	0.10	2,858								No	2,858		
Lauren Cantillo	(B)	Asst Coach	0.78	27,467	1,350							No	27,467		1,350

(A) = indicates previous coach / employee

(B) = indicates current coach / employee

Game Guarantee Payments

Mike Kramer - \$7,500 (1% of the Gross Guarantee Payments)

**Intercollegiate Athletics Compensation Report  
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Depart/Name/Title	Compensation					Contract Bonuses			Perks			Funding			
	Athletic FTE	Base Salary	Camps/ Clinics	Media	Equip Co & Other	Academic Perform.	Winning Perform..	Other	Club Mbership	Car	Other	Multi-Yr Contract	State Approp.	Program Revenue	All Other
Seton Sobolewski - \$2,100 (3% of the Gross Guarantee Payments)															

(\* ) These coaches receive pay for their participation in off-campus clinics or events.  
These earnings are not reflected in the Regular Salary payroll costs for Idaho State University.

If a coach has an agreement with an apparel company, cash payments (payroll) should be reported as compensation. Report the value of clothes and equipment that you know coaches receive in the Perks--Other column. Payments from the foundation should be reported in the other column. Indicate "Yes" or "No" if department employees have an assigned car. If there has been turnover in a position, the FTE should reflect the percent of time employed.

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Depart/Name/Title	Athletic FTE	Compensation				Contract Bonus			Perks			Multi-Yr Contract	Funding			Base Salary Annualized Change	Comments
		Base Salary	Camps/ Clinics	Media	Equip Co & Other	Academic Perform.	Winning Perform.	Other	Club Mbership	Car	Other		State Approp.	Program Revenue	All Other		
Athletic Administration:																	
Jeff Tingey	1.00	144,664		7,500					Yes	Yes		Yes	144,664	7,500		15% 4% Merit 11% Market Adj.	
Nancy Graziano	1.00	79,082										No	79,082			4% Merit	
Jim Kramer	1.00	75,733										No	75,733			5% 2% Merit 3% Market Adj	
Matthew Steuart	1.00	49,130										No		49,130		4% Merit	
Steve Schaack	1.00	57,200										No	57,200			4% Merit	
Jenna Galloway	1.00	37,357										No	37,357			4% Merit	
Jodi Wotowey	1.00	53,726										No	53,726			4% Merit	
Daryl Finch	1.00	39,645										No	39,645			4% Merit	
Brandon Payne	1.00	40,414										No	40,414			4% Merit	
Elizabeth Reinstein	1.00	37,003	242									No	37,003		242	0%	
Kristin Shuman	1.00	44,907										No	44,907			2% Merit	
Kalee Ralphs	1.00	42,016										No		42,016		4% Merit	
Tyson Munns	1.00	48,984									Yes	No		48,984		2% Merit	
Robert Crompton	1.00	35,901										No	35,901			0%	
Bengal Foundation																	
Donna Hayes	1.00	50,482										Yes		50,482		2% Merit	
Men's Sports																	
Football																	
Mike Kramer	0.91	149,720										Yes	Yes	149,720		0%	
Stanley Franks	1.00	41,226										No	41,226			3% Merit	
Spencer Toone	1.00	56,680										No	56,680			3% Merit	
Dorian Keller	1.00	40,016										Yes	No	40,016		0%	
Roger Cooper	1.00	51,522										No	51,522			3% Merit	
Braeden Clayson	1.00	38,106										No	38,106			4% Merit	
Steven Fifita	1.00	41,226										No	41,226			3% Merit	
Matthew Troxel	1.00	55,016										Yes	No	55,016		6% Sal Incr.	
Robert Phenicie	1.00	50,003										No	50,003			15% Sal Incr.	
Tevita Fiefia	1.00	41,226										No	41,226			3% Merit	
Basketball																	
William Evans	0.95	103,114	2,200									Yes	Yes	103,114	2,200	0%	
Andrew Ward	1.00	65,624	2,200									Yes	No	65,624	2,200	3% Merit	
Jay Collins	1.00	42,515	2,200									No	42,515	2,200	2% Merit		
Tim Walsh	1.00	43,368	2,200									No	43,368	2,200	2% Merit		
Tennis																	
Gretchen Maloney	0.42	20,618										No	20,618			3% Merit	
Mark Rodel	0.38	16,656										No	16,656			4% Merit	
(A) = indicates previous coach / employee (B) = indicates current coach / employee																	
Track & Field																	
Hillary L. Merkley	0.46	29,121										No	29,121			17% Sal Incr.	
Yuriy Litvinski	0.44	15,787										No	15,787			New	
Cross Country																	
Nathan Houle	0.50	24,003										No	24,003			8% Sal Incr.	

**Intercollegiate Athletics Compensation Report  
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Depart/Name/Title	Athletic FTE	Compensation				Contract Bonus			Perks			Multi-Yr Contract	Funding			Base Salary Annualized Change	Comments
		Base Salary	Camps/Clinics	Media	Equip Co & Other	Academic Perform.	Winning Perform.	Other	Club Mbership	Car	Other		State Approp.	Program Revenue	All Other		
<b>Women's Sports</b>																	
<b>Basketball</b>																	
Seton Sobolewski		Hd Coach	0.95	96,599	1,000						Yes		Yes	96,599		1,000	0%
Michael Trujillo		Asst Coach	1.00	47,757	2,000						Yes		Yes	47,757		2,000	3% Merit
Ryan Johnson		Asst Coach	1.00	32,198	2,200							No		32,198		2,200	4% Merit
Bryanna Mueller		Asst Coach	0.90	23,408	969							No		23,408		969	New
<b>Volleyball</b>																	
Fredrick Reynolds		Hd Coach	0.91	62,803	3,000								Yes	62,803		3,000	0%
Keisha Fisher		Asst Coach	1.00	31,242	4,000							No		31,242		4,000	2% Merit
<b>Tennis</b>																	
Gretchen Maloney		Hd Coach	0.42	20,618									No	20,618			3% Merit
Mark Rodel		Asst Coach	0.38	16,656									No	16,656			4% Merit
<b>Track &amp; Field</b>																	
Hillary L. Merkley		Hd Coach	0.46	29,121									No	29,121			17% Sal Incr.
Yuriy Litvinski		Asst Track & Field Coach	0.44	15,787									No	15,787			New
<b>Golf</b>																	
Kelly Hooper		Hd Coach	0.38	19,032									No	19,032			0%
<b>Cross Country</b>																	
Nathan Houle		Hd Coach - Asst Coach T&F	0.50	24,003									No	24,003			8% Sal Incr.
<b>Soccer</b>																	
Allison Gibson		Hd Coach	1.00	65,894	9,125								Yes	65,894		9,125	0%
Christopher Cogan		Asst Coach	1.00	32,178	1,000								No	32,178		1,000	4% Merit
<b>Softball</b>																	
Candi Letts		Hd Coach	1.00	58,011									Yes	58,011			0% Merit
Lauren Cantillo		(A) Asst Coach	0.12	4,270									No	4,270			2% Merit
Alex Schultz		(B) Asst Coach	0.85	29,621									No	29,621			New

(A) = indicates previous coach / employee  
(B) = indicates current coach / employee

Game Guarantee Payments

Seton Sobolewski - \$2,205 (3% of the Gross Guarantee Payments)

(\*) These coaches receive pay for their participation in off-campus clinics or events. These earnings are not reflected in the Regular Salary payroll costs for Idaho State University.

If a coach has an agreement with an apparel company, cash payments (payroll) should be reported as compensation. Report the value of clothes and equipment that you know coaches receive in the Perks--Other column. Payments from the foundation should be reported in the other column. Indicate "Yes" or "No" if department employees have an assigned car. If there has been turnover in a position, the FTE should reflect the percent of time employed.

**Intercollegiate Athletics Compensation Report**  
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Depart/Name/Title	Athletic FTE	Compensation				Contract Bonus			Other			Multi-Yr Contract	Funding		
		Base Salary	Camps/Clinics	Media	Equip Co & Other <sup>^</sup>	Academic Perform.	Winning Perform.	Other	Club Memb.	Car	Other		State Approp.	Program Revenue	All Other
Athletic Administration:															
Rob Spear		Athletic Director	1.00	181,821	15,000	1,080				yes*	yes	132,813	65,088		
John Wallace		AssocAD/Internal Ops	1.00	25,637		270						25,637	270		
Thomas Zimmer		Business Manager, Athletics	1.00	53,872		980							54,852		
Margaret Henderson		Asst Business Manager, Athletics	1.00	39,911									39,911		
Amber Pittman		Administrative Coordinator	1.00	32,955									32,955		
Amy Schumaker		Administrative Coordinator	1.00	27,874									27,874		
Margaret Saylor		Administrative Assistant 1	1.00	28,653									28,653		
Damien Garnett		Dir. Equip Rm	1.00	43,765		540							44,305		
Anthony Castro		Asst Equip Rm	1.00	36,008		600							36,608		
Tim Jackson		Video Coord.	1.00	40,799		480							41,279		
Becky Paull		Dir. Med. Rel	1.00	62,500		360							62,860		
Seth Pringle		Asst. Med Rel	1.00	35,112		360							35,472		
Joeseeph St. Pierre		Asst. Med Rel	1.00	28,003		360							28,363		
Megan Shiflett		Asst Trainer	1.00	2,767	600								2,767	600	
Erin Bierstedt		Asst Trainer	1.00	36,238		300							36,538		
Toby van Amerongen		Asst Trainer	1.00	42,794	540	480							43,274	540	
Barrie Steele		Hd Trainer	1.00	75,467	600	720							76,187	600	
Margaret Eldrich		Student Insurance Coord	1.00	29,689									29,689		
Jake Scharnhorst		Strength Coach	1.00	58,238	400	600							58,838	400	
Joe Herold		Asst Strength	1.00	40,042		360							40,402		
Miles Gemberling		Asst Strength	1.00	11,544	465								11,544	465	
Tim Mooney		Assoc AD/External Ops	0.50	55,682	^	960				yes			56,642		
Samantha Parrott		Devl. Coord.	0.50	13,466	^	480							13,946		
Suzanne Stride		Devl. Coord.	0.50	12,043	^	480							12,523		
Shelly Robson		Devl. Coord.	0.50	22,386	^	960				yes			23,346		
Brent Vicino		Asst AD, Annual Giving	0.25	7,289	^	960							8,249		
Troy Nealey		Devl. Coord.	0.25	4,968	^	960							5,928		
Ryan Gerulf		Devl. Coord.	0.50	1,605	^								1,605		
Emily Adams		Devl. Coord.	1.00	45,372		480							45,852		
Ryan Gilmore		Dir Marketing/Promotions	1.00	46,910		540							47,450		
Kaitlin Parsons		Asst Dir Marketing/Promotions	1.00	33,536		360							33,896		
Chris Apenbrink		Director of Ticket Ops	1.00	40,035		480							40,515		
Hardin, Glendon		Ticket Sales Manager	1.00	38,025		480							38,505		
Susan Steele		Dir. Of Athl. Academics Services	1.00	47,638		720							48,358		
Irvin Stevens		Acad. Coord	1.00	30,800		480							31,280		
Fennell Marcis		Acad. Coord	1.00	6,272		280							6,552		
Jessica Kylo		Acad. Coord	1.00	17,920		240							18,160		



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Depart/Name/Title	Athletic FTE	Compensation				Contract Bonus			Other			Multi-Yr Contract	Funding		
		Base Salary	Camps/Clinics	Media	Equip Co & Other <sup>M</sup>	Academic Perform.	Winning Perform.	Other	Club Memb.	Car	Other		State Approp.	Program Revenue	All Other
<b>Men's Sports</b>															
<b>Football</b>															
Paul Petrino	Hd Coach	1.00	178,391		240,000	960	10,000				yes	yes	178,391	250,960	
Kris Cinkovich	Assistant	1.00	149,563	1,000		960					yes		149,563	960	1,000
Michael Breske	Assistant	1.00	130,000	400		960							130,000	960	400
Charles Molnar	Assistant	1.00	64,970	1,000	5,272	960					yes		64,970	6,232	1,000
Eric Brown	Assistant	1.00	54,060	2,000		960					yes+		54,060	960	2,000
Bryce Erickson	Assistant	1.00	57,378	1,000		720					yes*		57,378	720	1,000
Kenneth Holmes	Assistant	1.00	61,277	1,000		960					yes		61,277	960	1,000
Alfred Pupunu	Assistant	1.00	65,886	1,000		960					yes		65,886	960	1,000
Jason Shumaker	Assistant	1.00	77,982	1,000		960					yes		77,982	960	1,000
Aric Williams	Assistant	1.00	70,034	1,000		960							70,034	960	1,000
Troy Purcell	Assistant	1.00	13,904			240					yes*		13,904	240	
Ronnie Lee	Assistant	1.00	4,904										4,904		
Bobby Daly	Dir. of FB Ops	1.00	53,355	2,004		960								54,315	2,004
<b>Basketball</b>															
Don Verlin	Hd Coach	1.00	171,114	2,500	60,000	960	5,000	21,198	&	yes	yes		171,114	87,158	2,500
Tim Murphy	Assistant	1.00	66,281		15,000	960					yes		66,281	15,960	
Kirk Earlywine	Assistant	1.00	41,610		12,500	960					yes+		41,610	13,460	
Chris Helbling	Assistant	1.00	1,178										1,178		
Milton Palacio	Dir Player Development	1.00	493										493		
Joe Ford	Assistant	1.00	11,758			240					yes*		11,758	240	
Zachary Claus	Assistant	1.00	40,641		7,000	960							40,641	7,960	
Tim Marrion	Dir Player Development	1.00	25,689		6,000	640					yes		25,689	6,640	
<b>Men's Track &amp; XC</b>															
Tim Cawley	Dir. of T&F	0.50	32,236		4,000	960						yes		37,196	
Cathleen Cawley	Assistant	0.50	17,843											17,843	
Travis Floeck	Assistant	0.50	22,946			520								23,466	
<b>Golf</b>															
John Means	Hd Coach	1.00	21,265			560								21,825	
David Nuhn	Hd Coach	1.00	14,619			480								15,099	
<b>Tennis</b>															
Abid Akbar	Hd Coach	1.00	24,701			640								25,341	

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Depart/Name/Title	Athletic FTE	Compensation				Contract Bonus			Other			Multi-Yr Contract	Funding				
		Base Salary	Camps/Clinics	Media	Equip Co & Other <sup>^</sup>	Academic Perform.	Winning Perform.	Other	Club Memb.	Car	Other		State Approp.	Program Revenue	All Other		
Women's Sports																	
Basketball																	
Jon Newlee		Hd Coach	1.00	99,853		18,000	960	3,000	3,000	32,000	&		yes	yes	99,853	56,960	
Christa Sanford		Assistant	1.00	61,168			960								58,007	4,121	
Jeri Jacobson		Assistant	1.00	29,918			960								29,918	960	
Kristi Zeller		Assistant	1.00	26,693		5,000	880								24,747	7,826	
Women's Track & XC																	
Tim Cawley		Dir. of T&F	0.50	32,236		4,000		2,000						yes		38,236	
Cathleen Cawley		Assistant	0.50	17,843			960									18,803	
Travis Floeck		Assistant	0.50	22,946			520									23,466	
Volleyball																	
Debbie Buchanan		Hd Coach	1.00	88,062	10,000	15,000	960	1,500					yes*	yes	88,062	17,460	10,000
Brian Lamppa		Associate	1.00	41,242	3,235	7,500	960								41,242	8,460	3,235
Steve Whitaker		Assistant	1.00	3,140											3,140	0	
Kara Newlee		Assistant	1.00	31,099			480								31,099	480	
Women's Soccer																	
Derek Pittman		Hd Coach	1.00	41,394		15,000	960	1,000						yes	41,394	16,960	
Joshua Davis		Assistant	1.00	30,594			960								26,270	5,285	
Women's Golf																	
Lisa Johnson		Hd Coach	1.00	44,561			960	1,000	500							47,021	
Tennis																	
Mariana Cobra Muraca		Hd Coach	1.00	38,301			1,040									39,341	
Women's Swimming																	
Mark Sowa		Hd Coach	1.00	53,041		18,000	960	450							53,041	19,410	
Kelsie Saxe		Assistant	1.00	23,833		5,000	960								23,833	5,960	
James Southerland		Assistant	1.00	1,097			480								962	614	

^ other portion of full FTE paid by Advancement

^^ cell phone stipend

& share of game guarantee and/or gate per contract

yes+ receive a car stipend between \$200-\$400/month rather than a car; this amount not included in base salary

yes\* had a car for part of year only

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Depart/Name/Title	Athletic FTE	Compensation				Contract Bonus			Other			Funding			Base Salary Annualized Change	Comments
		Base Salary	Camps/Clinics	Media	Equip Co & Other^^	Academic Perform	Winning Perform.	Other	Club Memb.	Car	Other	Multi-Yr Contract	State Approp.	Program Revenue		
Athletic Administration:																
Rob Spear	1.00	185,598		15,000	1,080						yes	185,598	16,080		2%	
Thomas Zimmer	1.00	75,005										75,005			39%	reorganization & retention
Ugis Svazs	1.00	47,507										47,507			New	FLSA increase
Margaret Henderson	1.00	40,019											40,019		2%	overtime in FY16
Amber Pittman	1.00	34,091											34,091		3%	temp increase made perm
Jill Reader	1.00	30,139											30,139		New	
Margaret Saylor	1.00	0											0		0%	resigned - will not refill
Anthony Castro	1.00	50,003			600								50,603		39%	promotion
Marisa Vitek	1.00	29,162			480								29,642		New	
Tim Jackson	1.00	47,507			480								47,987		16%	FLSA increase
Becky Paull	1.00	64,189			360								64,549		3%	
Seth Pringle	1.00	34,944			360								35,304		2%	overtime in FY16
Joseph St. Pierre	1.00	28,954			360								29,314		3%	
Christopher Walsh	1.00	47,507			480							47,507	480		New	FLSA increase
Toby van Amerongen	1.00	47,507			480							47,507	480		11%	FLSA increase
Barrie Steele	1.00	77,043	475		720							77,043	720	475	2%	
Margaret Eldrich	1.00	33,010										33,010	0		11%	years of service
Jake Scharnhorst	1.00	60,008	250		600								60,608	250	3%	
Joe Herold	1.00	40,914	250		360								41,274	250	2%	
Miles Gemberling	1.00	30,618											30,618		2%	new hire in FY16
Tim Mooney	0.50	56,838	^		960				yes				57,798		2%	
Samantha Parrott	0.50	29,037	^		480								29,517		2%	new hire in FY16
Suzanne Stride	0.50	29,037	^		480								29,517		2%	new hire in FY16
Shelly Robson	0.50	22,932	^		960				yes				23,892		2%	
Brent Vicino	0.25	17,228	^		960								18,188		0%	change in funding
Troy Nealey	0.25	11,981	^		960								12,941		2%	change in funding
Emily Adams	1.00	47,507			480								47,987		5%	FLSA increase
Ryan Gilmore	1.00	47,902			540								48,442		2%	
Kaitlin Parsons	1.00	33,488			360								33,848		2%	overtime in FY16
Chris Apenbrink	1.00	47,507			480								47,987		19%	FLSA increase
Hardin, Glendon	1.00	38,605			480								39,085		2%	
Susan Steele	1.00	48,630			720								49,350		2%	
Irvin Stevens	1.00	31,491			480								31,971		2%	
Jessica Killo	1.00	29,702			480								30,182		2%	new hire in FY16

**Intercollegiate Athletics Compensation Report  
University of Idaho  
FY2017 Estimated Compensation**

Depart/Name/Title	Athletic FTE	Compensation				Contract Bonus			Other			Funding			Base Salary Annualized Change	Comments	
		Base Salary	Camps/Clinics	Media	Equip Co & Other^^	Academic Perform	Winning Perform.	Other	Club Memb.	Car	Other	Multi-Yr Contract	State Approp.	Program Revenue			All Other
<b>Men's Sports</b>																	
<b>Football</b>																	
Paul Petrino	Hd Coach	1.00	182,104		250,000	960	10,000	60,000				yes+	yes	182,104	320,960		2%
Kris Cinkovich	Assistant	1.00	152,672	2,000		960		2,000				yes		152,672	2,960	2,000	2%
Michael Breske	Assistant	1.00	132,600	1,650		960		2,000						132,600	2,960	1,650	2%
Charles Molnar	Assistant	1.00	72,842	2,000	5,272	960		2,000		yes				72,842	8,232	2,000	12%
Eric Brown	Assistant	1.00	55,203	4,000		960		2,000		yes+				55,203	2,960	4,000	2%
Troy Purcell	Assistant	1.00	65,728	2,000		960		2,000		yes+				65,728	2,960	2,000	0%
Kenneth Holmes	Assistant	1.00	62,504	2,000		960				yes+				62,504	960	2,000	2%
Alfred Pupunu	Assistant	1.00	67,267	2,000		960		2,000		yes				67,267	2,960	2,000	2%
Jason Shumaker	Assistant	1.00	79,622	2,000		960		2,000		yes				79,622	2,960	2,000	2%
Aric Williams	Assistant	1.00	71,448	2,000		960		2,000						71,448	2,960	2,000	2%
Bobby Daly	Dir. of FB Ops	1.00	37,918	4,300		960		2,000						37,918	2,960	4,300	2%
<b>Basketball</b>																	
Don Vertlin	Hd Coach	1.00	178,298		60,000	960	5,000	15,000	11,902 &	yes	yes			178,298	92,862	0	4%
Tim Murphy	Assistant	1.00	67,662		16,500	960				yes				67,662	17,460		2%
Kirk Earlywine	Assistant	1.00	42,494		14,000	960				yes+				42,494	14,960		2%
Zachary Claus	Assistant	1.00	44,179		10,000	960				yes				44,179	10,960		9%
Brooks Malm	Dir Player Development	1.00	34,632							yes				34,632	0		New
<b>Men's Track &amp; XC</b>																	
Tim Cawley	Dir. Of T&F	0.50	32,916		4,000	960					yes			32,916	4,960		2%
Cathleen Cawley	Assistant	0.50	18,221											18,221	0		2%
Travis Floeck	Assistant	0.50	23,431			480								23,431	480		2%
<b>Golf</b>																	
David Nuhn	Hd Coach	1.00	40,019			960		2,000						40,019	2,960		0%
<b>Tennis</b>																	
Abid Akbar	Hd Coach	1.00	38,771			960								38,771	960		2%
<b>Women's Sports</b>																	
<b>Basketball</b>																	
Jon Newlee	Hd Coach	1.00	104,042		18,000	960	1,500	16,694	28,500 &	yes	yes			104,042	65,654		4%
Christa Sanford	Assistant	1.00	62,442			960								62,442	960		2%
Jeri Jacobson	Assistant	1.00	32,656	500		960								32,656	960	500	2%
Steven Fennelley	Assistant	1.00	33,509	500	5,000	960								33,509	5,960	500	New
<b>Women's Track &amp; XC</b>																	
Tim Cawley	Dir. Of T&F	0.50	32,916		4,000			2,000			yes			32,916	6,000		2%
Cathleen Cawley	Assistant	0.50	18,221			960								18,221	960		2%
Travis Floeck	Assistant	0.50	23,431			480								23,431	480		2%
<b>Volleyball</b>																	
Debbie Buchanan	Hd Coach	1.00	89,898		15,000	960		1,500		yes+	yes			89,898	17,460		2%
Brian Lamppa	Associate	1.00	42,869		10,000	960								42,869	10,960		4%
Kara Newlee	Assistant	1.00	37,502			960								37,502	960		2%
<b>Women's Soccer</b>																	
Derek Pittman	Hd Coach	1.00	45,011		15,000	960	1,000	4,500			yes			45,011	21,460		9%
Joshua Davis	Assistant	1.00	31,242			960								31,242	960		2%
<b>Women's Golf</b>																	
Lisa Johnson	Hd Coach	1.00	45,490			960	1,000	3,430						45,490	5,390		2%
<b>Tennis</b>																	
Mariana Cobra Muraca	Hd Coach	1.00	38,771			960		2,000						38,771	2,960		1%
<b>Women's Swimming</b>																	
Mark Sowa	Hd Coach	1.00	54,163		18,000	960		450						54,163	19,410		2%
Kelsie Saxe	Assistant	1.00	26,021		5,000	960								26,021	5,960		2%
James Southerland	Assistant	1.00	28,517			960								25,023	4,453		0%
																	New

^ other portion of full FTE paid by Advancement  
^^ cell phone stipend  
& share of game guarantee/gate per contract  
yes+ receive a car stipend between \$200-\$400/month rather than a car; this amount not included in base salary

**Intercollegiate Athletics Compensation Report  
Lewis-Clark State College  
FY2016 Actual Compensation**

Depart/Name/Title	FTE	Compensation			Contract Bonus			Other			All Compensation		
		Base Salary	Camps/ Clinics	Equip Co & Other	Grad Rate	Winning Perform.	Other	Club Memb.	Car	Multi-Yr Contract	State Approp.	Program Revenue	All Other
<b>Athletic Administration</b>													
Gary Picone	1.00	76,762						No	Yes	No	68,318	8,444	
Brooke Cushman	1.00	59,312						No	Yes	No	23,132	36,180	
Tracy Collins	1.00	42,203	2,800					No	No	No	42,203	2,800	
Paul Thompson	0.31	11,221						No	No	No	11,221		
Matt Breach (Old)	1.00	8,463						No	No	No	8,463		
Alexandria Canfield (New)	1.00	31,921						No	No	No	31,921		
Kristina Keener	1.00	38,775						No	No	No	13,184	25,591	
Alexandria Canfield (Old)	1.00	4,973						No	No	No	1,691	3,282	
Deanne Shirley (Old)	1.00	20,522						No	No	No	6,977	13,545	
<b>Men's Sports</b>													
<b>Basketball</b>													
Brandon Rinta	1.00	50,826	20,000			500	500	No	Yes	No	51,826	20,000	
Austin Johnson (Old)	0.14	3,950	5,175					No	No	No		9,125	
Drew Church (New)	0.14	1,000						No	No	No		1,000	
<b>Baseball</b>													
Jeremiah Robbins	1.00	62,846				1,500	500	No	Yes	No	64,846		
Kyle Blackwell	1.00	35,901						No	No	No	35,901		
Allen Balmer	1.00	45,908						No	No	No	45,908		
<b>Cross-Country</b>													
Mike Collins	0.25	12,828	2,100			500	250	No	No	No	13,578	2,100	
Cyrus Hall	0.25	9,048	350					No	No	No	9,048	350	
<b>Track</b>													
Mike Collins	0.25	12,827				500		No	No	No	13,327		
Cyrus Hall	0.25	9,048	125					No	No	No	9,048	125	
<b>Tennis</b>													
Kai Fong	0.50	26,186						No	No	No	7,332	18,854	
<b>Golf</b>													
Paul Thompson	0.23	8,336				250		No	No	No	8,586		
Fred Noland	0.07	2,500						No	No	No		2,500	

Intercollegiate Athletics Compensation Report  
 Lewis-Clark State College  
 FY2016 Actual Compensation  
 Page 2

Depart/Name/Title	FTE	Compensation			Contract Bonus			Perks		Multi-Yr Contract	All Compensation			
		Base Salary	Camps/ Clinics	Equip Co & Other	Grad Rate	Winning Perform.	Other	Club Mbership	Car		State Approp.	Program Revenue	All Other	
Women's Sports														
Basketball														
Brian Orr		Head Coach	1.00	53,406	8,250		500	500	No	Yes	No	54,406	8,250	
Aubree Callen		Asst. Coach	0.28	10,000					No	No	No		10,000	
Cross-Country														
Mike Collins		Head Coach	0.25	12,828	2,100		500	250	No	No	No	13,578	2,100	
Cyrus Hall		Asst. Coach	0.25	9,048	350				No	No	No	9,048	350	
Track														
Mike Collins		Head Coach	0.25	12,828			500		No	No	No	13,328		
Cyrus Hall		Asst. Coach	0.25	9,048	125				No	No	No	9,048	125	
Volleyball														
Latoya Harris		Head Coach	1.00	46,477					No	Yes	No	46,477		
Tennis														
Kai Fong		Head Coach	0.50	26,186					No	No	No	7,332		18,854
Golf														
Paul Thompson		Head Coach	0.36	12,504			750		No	No	No	13,254		
Fred Noland		Asst. Coach	0.07	2,500					No	No	No		2,500	

**Intercollegiate Athletics Compensation Report  
Lewis-Clark State College  
FY2017 Estimated Compensation**

Depart/Name/Title	FTE	Compensation			Contract Bonus		Other		Multi-Yr Contract	All Compensation			Base Salary Annualized Change
		Base Salary	Camps/Clinics	Equip Co Media & Other	Grad Rate	Winning Perform.	Other	Club Memb.		Car	State Approp.	Program Revenue	
<b>Athletic Administration</b>													
Gary Picone	1.00	79,832				2,500	No	Yes	No	73,275		9,057	4%
Brooke Cushman	1.00	61,684					No	Yes	No	24,057		37,627	4%
Tracy Collins	1.00	47,476	1,500				No	No	No	47,476	1,500		12.5%
Alexandria Canfield	1.00	37,637					No	No	No	37,637			4.3%
Kristina Keener	1.00	40,442					No	No	No	13,750		26,692	4.3%
Allison Beck (New)	1.00	32,323					No	No	No	10,990		21,333	New
<b>Men's Sports</b>													
<b>Basketball</b>													
Brandon Rinta	1.00	53,012	20,000			500	No	Yes	No	54,012	20,000		4.3%
Drew Church	0.14	5,000	2,175				No	No	No		7,175		0%
<b>Baseball</b>													
Jeremiah Robbins	1.00	70,000				1,000	No	Yes	No	72,500			11.4%
Kyle Blackwell	1.00	37,337					No	No	No	37,337			4%
Allen Balmer	1.00	47,515					No	No	No	47,515			3.5%
<b>Cross-Country</b>													
Mike Collins	0.25	13,341	1,500			250	No	No	No	14,091	1,500		4%
Cyrus Hall	0.25	9,364	500				No	No	No	9,364	500		3.5%
<b>Track</b>													
Mike Collins	0.25	13,340				250	No	No	No	13,840			4%
Cyrus Hall	0.25	9,364	125				No	No	No	9,364	125		3.5%
Lawrence Sandahl	0.04	1,350	100				No	No	No		1,450		New
<b>Tennis</b>													
Kai Fong	0.50	27,234				500	No	No	No	8,375		19,609	4%
Deanri Human	0.12	4,200					No	No	No			4,200	New
<b>Golf</b>													
Paul Thompson (Old)	0.23	0				750	No	No	No	750			0%
Drew Reinland (New)	0.25	10,000					No	No	No	7,600		2,400	New
Fred Noland	0.07	2,500					No	No	No		2,500		0%

Intercollegiate Athletics Compensation Report  
 Lewis-Clark State College  
 FY2017 Estimated Compensation  
 Page 2

Depart/Name/Title	FTE	Compensation			Contract Bonus		Perks		Multi-Yr Contract	All Compensation			Base Annualized Salary Change		
		Base Salary	Camps/ Clinics	Equip Co & Other	Grad Rate	Winning Perform.	Other	Club Mbership		Car	State Approp.	Program Revenue		All Other	
Women's Sports															
Basketball															
Brian Orr		Head Coach	1.00	55,542	4,300			1,000	500	No	Yes	No	57,042	4,300	4%
Aubree Callen		Asst. Coach	0.28	10,000						No	No	No		10,000	0%
Cross-Country															
Mike Collins		Head Coach	0.25	13,341	1,500			250		No	No	No	13,591	1,500	4%
Cyrus Hall		Asst. Coach	0.25	9,364	500					No	No	No	9,364	500	3.5%
Track															
Mike Collins		Head Coach	0.25	13,341				250	250	No	No	No	13,841		4%
Cyrus Hall		Asst. Coach	0.25	9,364	125					No	No	No	9,364	125	3.5%
Lawrence Sandahl		Asst. Coach	0.04	1,350	100					No	No	No		1,450	New
Matthew Kelley		Pole Vault Asst.	0.03	1,000	150					No	No	No		1,150	New
Volleyball															
LaToya Harris		Head Coach	1.00	50,000						No	Yes	No	50,000		7.6%
Tennis															
Kai Fong		Head Coach	0.50	27,233				250		No	No	No	7,875	19,608	4%
Deanri Human		Asst Coach	0.11	4,200						No	No	No		4,200	New
Golf															
Paul Thompson (Old)		Head Coach	0.36	0				250		No	No	No	250		0%
Drew Reinland (New)		Head Coach	0.25	10,000						No	No	No	7,600	2,400	New
Fred Noland		Asst. Coach	0.07	2,500						No	No	No		2,500	0%



**BUSINESS AFFAIRS AND HUMAN RESOURCES**  
**APRIL 20, 2017**

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**SUBJECT**

Athletics Gender Equity Reports

**REFERENCE**

April 2016 Board received FY 2015 gender equity reports

**APPLICABLE STATUTE, RULE, OR POLICY**

Idaho State Board of Education Governing Policies & Procedures, Section V.X.

**BACKGROUND/DISCUSSION**

Title IX of the Education Amendments of 1972 is the federal legislation that bans gender discrimination in schools, whether it is in academics or athletics. Title IX states: "No person in the United States shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity receiving Federal financial assistance ...." (20 U.S.C. §1681(a))

In regard to intercollegiate athletics, the US Department of Education's Office for Civil Rights (OCR) issued a "Clarification of Intercollegiate Athletics Policy Guidance: The Three-Part Test" in 1996 to analyze if an institution is in compliance. All three parts must be met for an institution to be considered in compliance.

**First**, the selection of sports and the level of competition must accommodate the students' interests and abilities using one of the three factors listed below:

1. Participation opportunities for male and female students are provided in numbers **substantially proportionate** to their respective enrollments.
2. Where the members of one gender have been and are underrepresented among intercollegiate athletes, whether the institution can show a **history and continuing practice of program expansion** which is demonstrably responsive to the developing interests and abilities of that gender.
3. Where the members of one gender are underrepresented among intercollegiate athletes and the institution cannot show a continuing practice of program expansion, whether it can be demonstrated that the interests and abilities of the members of that gender have been **fully and effectively accommodated** by the present program.

**Second**, financial assistance must be substantially proportionate to the ratio of male and female athletes. Institutions within 1% variance are considered compliant.

**Third**, benefits, opportunities, and treatments afforded sports participants are to be equivalent, but not necessarily identical including equipment and supplies, scheduling games and practices, travel expenses, availability and compensation

**BUSINESS AFFAIRS AND HUMAN RESOURCES**  
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of coaches, quality of facilities, medical services, housing, dining, and recruitment. Compliance is measured on a program-wide basis, not on a sport-by-sport basis.

Idaho State Board of Education (Board) policy V.X.4.c requires the four-year institutions to provide gender equity reports for review by the Board in a format and time to be determined by the Executive Director. The reports from the institutions include a narrative discussion of gender equity-related issues along with a summary table which distills data from the detailed gender equity report provided annually by each institution to the U.S. Department of Education.

**IMPACT**

The attached summary worksheets show the institutions' enrollment, financial aid, and participants by gender. The worksheets also show the actual revenues and expenses for the most current completed fiscal year by sport, as well as overall operating (Game Day) expenses, number of participants, and operating expenses per participant. Finally, the worksheets provide information on average salaries of coaches and the count of coaches per sport by gender.

**ATTACHMENTS**

Attachment 1: BSU Gender Equity Narrative	Page 5
Attachment 2: BSU Gender Equity Worksheet	Page 15
Attachment 3: ISU Gender Equity Narrative	Page 19
Attachment 4: ISU Gender Equity Worksheet	Page 21
Attachment 5: UI Gender Equity Narrative	Page 25
Attachment 6: UI Gender Equity Worksheet	Page 27
Attachment 7: LCSC Gender Equity Narrative	Page 31
Attachment 8: LCSC Gender Equity Worksheet	Page 32

**STAFF COMMENTS AND RECOMMENDATIONS**

Noteworthy information on gender equity aspects of athletic operations at the individual institutions are included in the attached narrative documents. The actual detailed "Equity in Athletics Data Analysis (EADA)" reports are also available for review and analysis by the public on the U.S. Department of Education website at <https://ope.ed.gov/athletics/> . This site also provides tools to download EADA reports for any NCAA or NAIA institution and to compare groups of institutions and review trends.

In their narratives, the institutions reported the status of compliance in the three parts of Title IX.

Boise State University (BSU) provided a thorough, in-depth analysis of their compliance to Title IX in all three tests. BSU reported noncompliance in the first test because it missed substantial proportionality in enrollments by 2.7% with a disadvantage to females and noncompliance in showing a continuing practice of program expansion or full accomodation. BSU also reported non-compliance in the second test for financial assistance with a 1.1% disadvantage to males. For

**BUSINESS AFFAIRS AND HUMAN RESOURCES**  
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the third test, BSU reported disparities with regard to financial resources for recruiting and courtesy cars.

Idaho State University (ISU) reported compliance in the first two tests. While ISU did not state whether they were in compliance in the third test, they did note specific program areas are monitored and that several program enhancements were made in FY 2017.

University of Idaho (UI) reported a 1.24% differential in the first test with a disadvantage to males. UI reported noncompliance in the second test for financial assistance with a 2.46% disadvantage to females. While UI did not state whether they were in compliance in the third test, they did note specific program enhancements were made.

Lewis-Clark State College (LCSC) reported noncompliance in the first test because it missed substantial proportionality in enrollments by 18% with a disadvantage to females and noted meeting the first test is problematic due to financial constraints. LCSC reported compliance in the second test for financial assistance and in the third test for program equivalency.

**BOARD ACTION**

This item is for informational purposes only. Any action will be at the Board's discretion.

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# Title IX Compliance – Boise State Athletics

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At Boise State University, the Athletic Department, with oversight from the Intercollegiate Athletic Advisory Committee (IAAC) Gender-Equity Subcommittee, conducts an annual *Gender-Equity Review for Compliance with Title IX in Athletics*. The outcome of this report includes recommendations to the university that help achieve and maintain compliance in areas where gender differences may currently exist or may be developing. The summary of recommendations made this year and progress towards completion of recommendations that have been made over the last seven years are outlined in the *Summary of Progress Towards Outstanding Recommendations* table on pages 6-9. Progress towards completion of each recommendation was last updated February 2017. Page 10 outlines the schedule of future reviews.

## Participation Opportunities

Compliance for this component means meeting one test of the three-part test for participation opportunities. Institution officials may choose which test the institution will meet. An institution must do one of the following three:

1. Provide women and men with participation opportunities at rates that are proportionate to their respective rates of enrollment as full-time undergraduate students (test one); or
2. Demonstrate continuing program expansion for the underrepresented gender (test two); or
3. Fully accommodate the underrepresented gender (test three).

Participation rates for 2016-17 are currently under review, but in 2015-16, for the first time in seven years, Boise State University did not comply with this program component because males and females were not provided athletic participation opportunities at rate that was proportionate to their respective rates of enrollment as full-time undergraduate students (test one). FY16 athletic participation was 49% women to 51% men (duplicated participant count). Boise State's fulltime undergraduate enrollment was 51.8% women and 48.2% men. The margin of error to meet compliance with regard to test one at Boise State University is an approximate two-percentage point variance between athletic representation and undergraduate enrollment. In FY16, the discrepancy between athletic participation and undergraduate representation was a variance of 2.7% with disadvantage to females.

When the compliance in the participation component is not met in test one (proportionality), an analysis for compliance with test two (program expansion) and test three (full accommodation) should be considered. At Boise State, an outside consultant evaluated all three tests in 2014. At that time, it was suggested that Boise State may not be viewed as meeting test two, program expansion for the underrepresented sex, because despite adding three women's teams in the last ten years (swimming and diving in 2006, softball in 2008, and beach volleyball in 2014) the argument could be made that sufficient interest and ability among women likely existed in those sports before the timeframe in which they were added. Additionally, and perhaps more significantly, two women's teams (field hockey and skiing) have also been discontinued in the program's history. Thus Boise State might not be viewed as meeting test two. Boise State also does not appear to meet test three (full accommodation of the underrepresented sex), as evidence suggests the potential for significant interest, ability, and competition in Boise State's normal competitive region for women's lacrosse and water polo. Therefore, full accommodation of interests and abilities for women has likely not been achieved.

Boise State has been compliant with test one (proportionality) for the past seven years. Throughout those seven years, there have been changes in seven head coaching positions in the department. Those changes

have resulted in philosophical differences in program management, as the focus of each program is to become more competitive in their sport. To address Title IX compliance with regard to participation, head coaches have provided recruiting targets and squad size goals that ensure growth in the women's program while providing quality athletic experiences to each participant and a closely monitored squad size in the men's programs over the next two recruiting seasons. These squad size goals are consistent with developing a nationally competitive program while ensuring the department overall achieves compliance in Title IX participation requirements in a reasonable time frame.

At this time, it is most reasonable for Boise State to remain focused on achieving compliance with regard to participation through proportionality (test one). As an ongoing practice of the department, head coaches are provided guidelines for roster size maximums and minimums annually. Each roster size is based on the head coach's input on their ideal roster size with consideration of the overall program participation rates. This practice will be continued and monitored closely, as it represents the Athletic Department's continued effort to achieve proportionate participation opportunities with respect to undergraduate enrollment in the immediate future.

## Financial Aid

Compliance for this program component means total scholarship dollars awarded are substantially proportionate to participation rates for male and female student-athletes. To be in compliance, an institution must do the following:

1. For the regular academic year, athletic based financial aid awarded to male and female student-athletes must be "substantially proportionate" to their respective rates of financial aid participation (within 1%).
2. For the summer term, provide athletic scholarship awards that are equally available to all male and female student-athletes who desire summer term aid; otherwise, provide proportionate awards.
3. For fifth-year students who have exhausted their eligibility, provide fifth-year athletic scholarship awards that are equally available to all male and female student-athletes who desire degree completion aid; otherwise, provide proportionate awards.

In 2015-2016, Boise State did not comply with this program component because athletic aid was provided at a rate that was slightly outside of the standard of compliance with regard to athletic participation. However, it was the first time in program history that men were the underrepresented gender in athletic aid. Men represented 53.9% (216) of the participants (unduplicated count) and when comparing the *NCAA Squad List Athletic Grant Amount*, men received 52.8% of the financial aid in 2015-16 showing a 1.1% variance (0.1% outside the standard of compliance of +/-1%).

An analysis of financial aid participation figures and scholarship dollar amounts indicate that medical scholarships awarded during the 2015-2016 school year were a contributing factor to the lack of compliance. In FY16 female student-athletes who were deemed medically retired received a total of \$101,333 in financial aid (compared to \$12,766 in FY15), while males who received medical scholarships received a total of \$55,206 in financial aid (compared to \$36,426 the previous year). Because medical scholarships awards are unpredictable and not counted in the NCAA scholarship allotment maximums for each coach, these participants and the athletic aid awarded to them can vary from year to year and could be a contributing factor to Boise State falling outside the Title IX guideline of +/- one percent of financial aid award to financial aid participant.

Financial aid figures for 2015-2016 favor female participants for the first time in program history. With the intentional squad size increases in women's track (and close monitoring of squad sizes for men's

programs) and with continued monitoring of squad sizes of all sports programs, it is expected that Boise State will be back within the compliance requirement of +/- one percent within the next year. However, it is noteworthy that the current athletic programs offered at Boise State University allows an NCAA imposed maximum of 129.5 athletic scholarships that can be awarded to male participants and 117 athletic scholarships that can be awarded to female participants. In 2015-16, 104.46 of the 117 scholarships (89.5%) were awarded to females and 128.3 of the 129.5 (99.1%) were awarded to male participants. The majority of the women's program head coaches listed budget constraints as their reasoning for not awarding their full scholarship allotment, while no men's program head coaches listed this as a concern.

For that reason, it is recommended that scholarship budgets for female programs continue to be monitored to assure equity throughout the department and that coaches fully award female athletic scholarship dollars unless there is a reasonable professional decision to do otherwise.

**FY16 Note:** The Athletic Department awarded all eligible student-athletes, male and female, a "cost of attendance" increase as allowable by the NCAA for their regular-year award equivalency

### **Summer Term and Fifth Year Aid**

Summer term awards and fifth year aid for student-athletes who have exhausted their eligibility are analyzed separately from each other and separately from regular year aid. There is no compliance standard established specifically for summer term or fifth year aid and there is no expectation is that the need for these awards will arise at the same proportion as participation. Disproportionate awards for the summer term and fifth year student-athletes are not unusual. The essential consideration is whether female and male student-athletes have an equal opportunity to receive such awards. A review of the set policy for awarding summer term financial aid and fifth year aid shows it is equally available to male and female student-athletes who request aid, which suggests Boise State is in compliance with Title IX.

## **Coaching**

To be in compliance, an institution must do the following:

1. Assign the same number of coaches for the same amount of time to men's and women's teams in the same sport; assign the number of coaches and amount of time as equivalently appropriate for men's and women's teams in dissimilar sports; otherwise, provide offsetting assignments program-wide.
2. Assign equivalently qualified coaches to men's and women's teams program-wide.
3. Compensate men's and women's coaches at a rate that is proportionate to men's and women's rate of participation.

Under this program component, protections for coaches are evaluated based on the benefits provided for student-athletes. Differences among benefits provided to coaches, including compensation, are analyzed only to the extent of their effect on student-athletes.

The primary areas for evaluation in relation to coaching are: *availability* (opportunity to receive coaching), *qualifications* (assignment of coaches), and *compensation* of coaches (rate of compensation, duration of contracts, etc.). In evaluating these areas, Boise State did not demonstrate any gender disparities with relation to availability of coaches to each program, number of coaches or length of contracts, or qualification of coaches. Per Title IX interpretation, addressing any availability and

qualifications problems renders moot any compensation problem, regardless of the amount of compensation.

## Recruitment of Student-Athletes

Compliance for this program component requires review of three factors related to recruitment of student-athletes: opportunity to recruit, financial resources for recruiting, and treatment of prospective student-athletes. To be in compliance, an institution must do the following:

1. Provide coaches or other professional athletic personnel in the programs serving male and female student-athletes a substantially equal opportunity to recruit.
2. Provide equivalently adequate financial resources to the women's and men's programs.
3. Provide equivalent treatment to female and male prospective student-athletes in the overall athletics program.

In 2015-2016, Boise State did not have any discrepancies as it relates to the availability of coaches for male and female student-athletes, therefore, do not have discrepancies with regard to the opportunity to recruit.

The evaluation of financial resources for recruiting resulted in all teams reported inadequate recruiting budgets. However, the money needed to reach adequacy for women's sports exceeds the amount needed for men's sports by a significant amount, and a comparison of like-sports between men and women indicate an advantage to men. Because current recruitment spending is not proportionate to athletic participation, these differences suggest an advantage to the overall men's program regarding recruitment budgets.

Courtesy car assignments or compensation in lieu of a courtesy car (CLCC) for coaches involved in recruiting was assessed. In 2016-17 courtesy cars or CLCC has been awarded to all head coaches of men's and women's programs. Assistant coaches in both basketball programs and nine football assistant coaches also have this benefit.

In an assessment of the benefits provided to prospective student-athletes, coaches were surveyed regarding transportation, housing, meals, and entertainment. All teams reported these benefits as satisfactory except men's basketball who would like to improve hotels and meals provided to recruits, however, men's and women's basketball offer equivalent quality hotels and meals to recruits, therefore, this concern does not signal a discrepancy. The softball coach expressed a lack of adequate transportation for prospective student-athletes when department vans are necessary for use and stated that recruiting budget is not large enough to entertain recruits.

Overall, the athletic department has disparities between men's and women's programs with regard to financial resources for recruiting and courtesy cars or compensation in lieu of a courtesy car (CLCC) for assistant coaches. Boise State should eliminate or significantly reduce the concerns in this program area by providing adequate funding for women's programs in recruitment, provide courtesy cars or CLCC for assistant coaches of women's programs at a rate that is equivalent to men's assistant coaches with off campus recruiting responsibilities, and that the softball coach pursue the use of a loaner car for use during official recruiting weekends.



## Support Services

Compliance for this program component requires an evaluation of time spent by each coach performing administrative duties and the support provided that allows coaches to perform better in their coaching functions. Of the compliance areas, this is the smallest area of concern because it directly affects student-athletes the least. To be in compliance, an institution must do the following:

1. Provide administrative and clerical support so that men's and women's coaches, overall, spend the same or similar numbers of hours per week performing clerical and administrative tasks.
2. Provide men's and women's coaches with equivalently adequate and convenient office space and equipment.

Overall, for the 2015-2016 academic year, the Athletic Department complied with Title IX in the support services program areas related to administrative support and office space, equipment and supplies, but has differences in the amount of time spent on clerical and secretarial work between men's and women's programs. A recommendation was made to consider adding additional support services for the softball, swimming and diving and track/cross country programs' head and assistant coaches

## Tutoring

Compliance for this program evaluates only those tutoring programs provided separately to student-athletes and not the services provided to all students at Boise State University. To be in compliance, an institution must do the following:

1. Provide tutors who are equivalently qualified and equally available to all female and male student-athletes who want tutoring services; or
2. If tutoring services must be limited, provide tutors who are equivalently qualified and equally available to the same extent for female and male student-athletes who want tutoring services.

A survey of head coaches requested feedback on the availability and quality of tutors as well as study hall services provided for their team members. The conclusion was that availability and quality of tutors are equivalent for all student-athletes and no gender differences exist in this program area.

## Summary of Recommendations and Progress Towards Completion

Recommendations made to address existing or developing gender differences in the six program areas reviewed for the 2015-16 academic year, and recommendations made in previous reviews and progress towards completion on those items are outlined in the tables on the following pages.

## Summary of 2015-2016 Recommendations

Number and page	Recommendation
1, page 7	<i>Accommodation of Interests and Abilities:</i> The Athletic Department continues to monitor and carefully examine participation goals, and guide head coaches regarding roster sizes to ensure quality participation opportunities for female student-athletes and efficient but not excessive participation opportunities for male student-athletes, specifically in football and men's and women's track and field and cross-country.
2, page 11	<i>Athletic Financial Assistance:</i> The Athletic Department continues to require coaches to fully award female athletic scholarship dollars during the academic school year unless there is a reasonable professional decision to do otherwise.
3, page 11	<i>Athletic Financial Assistance:</i> The Athletic Department continues to monitor scholarship budgets for female equivalency sports with budget constraints limiting them the ability to fully award scholarship allotments.
4, page 14	<i>Coaching:</i> As female participation opportunities increase over time, an additional full time assistant track coach should be considered, with strong consideration given to a hiring a female coach.
5, page 18	<i>Recruitment of Student-Athletes:</i> The Athletic Department continue to evaluate recruitment budgets for all sports, with emphasis placed on track and field/cross-country, women's basketball, gymnastics, soccer, softball, and volleyball to assure adequate recruitment resources for these programs.
6, page 18	<i>Recruitment of Student-Athletes:</i> The Athletic Department considers awarding additional courtesy cars or compensation in lieu of a courtesy car to eight women's program assistant coaches with off-campus recruiting duties.
7, page 18	<i>Recruitment of Student-Athletes:</i> The softball coach pursues the use of a loaner car for use during official recruiting weekends.
8, page 20	<i>Support Services:</i> Additional support services are considered by the Athletic Department for the softball, swimming and diving and track/cross country programs' head and assistant coaches.

Summary of Progress Towards Outstanding Recommendations from 2011-2012 and Subsequent Reviews  
Last Updated February 2017

Recommendations	Progress Made
<i>(12-13 Rec) Equipment and Supplies:</i> The Department of Athletics evaluate the gymnastics and track and field equipment budgets with regard to competition uniforms and an adequate amounts of training shoes for team members.	<b>ONGOING</b> Evaluation of gymnastics equipment budget to be completed. Track and field equipment budgets remained the same from FY14-FY15, however head coach change resulted in reduction of 23-35 of student-athletes on men/women teams and a reduction in the equipment budget. Reevaluation of all equipment budgets will be completed in FY19 with focus on accommodating increased participation numbers for women.
<i>(12-13 Rec) Equipment and Supplies:</i> The Department of Athletics examines equipment budgets for men’s and women’s tennis with regard to sport-specific items for competitions and stringing services.	<b>COMPLETED</b> Stringing services now provided to both teams. Increase of \$20K to tennis equipment budget provided starting FY16.
<i>(12-13 Rec) Equipment and Supplies:</i> The Department of Athletics gives consideration to adding a Director of Softball Operations or fulltime team manager.	<b>ONGOING</b> A review of the support services program area resulted in a recommendation of clerical support being provided to softball, swimming and track and field/cross country. In an ongoing review of this team and all women’s Olympic sports, a director of operations for Olympic sports will be considered.
<i>(12-13 Rec) Medical and Training Services and Facilities:</i> The Athletic Department add additional athletic training staff members so issues are addressed to support all athletic programs, specifically for football, softball, and volleyball.	<b>ONGOING</b> Budget requests have been made for an additional full time athletic trainer and an additional full time strength and conditioning coach for FY15. For FY16, a position that was ½ time athletic trainer and ½ time Insurance was converted to a FY athletic trainer position devoted to football. Another part time trainer was also added to the staff, but funding for the additional PT training is not secured long term. In FY17 another fulltime trainer was added for volleyball and beach volleyball now have a fulltime trainer.
<i>(11-12 Rec) Scheduling of Games and Practice Times:</i> The Athletic Department continues to monitor competition schedules to ensure an optimal number of contests are being scheduled for all programs.	<b>PARTIALLY COMPLETED &amp; ONGOING</b> In FY12, gymnastics and softball scheduled desired number of competitions (though, softball was not able to compete in all of them due to weather cancelations). In FY13 every women’s program with the exception of swimming and diving had an increases to their travel budget resulting in a total increase to women’s program travel budgets of \$130K (men’s programs increased \$73K, excluding FB increase to accommodate travel to HI). In FY14 women’s golf, softball, volleyball and track and field/cross country had increases to their travel budgets again totaling ~\$12K. In FY15 soccer and softball travel budgets increased for a total of ~\$13K. Assessment of competition schedules and adequacy of travel budgets will be completed in FY17

Recommendations Continued	Progress Made Continued
<p><i>(11-12 Rec) Scheduling of Games and Practice Times:</i> The addition of lights is considered for the softball and soccer facilities.</p>	<p><b>ONGOING</b> The softball field has been moved from Mountain Cove to an improved facility at Dona Larsen Park; lights are not yet funded.</p>
<p><i>(11-12 Rec) Travel &amp; Per Diem Allowances:</i> The Athletic Department continue to monitor travel budgets, specifically women’s golf, wrestling and track and field to ensure adequacy within their programs with regard to travel squad sizes and per diem amount provided during away competitions.</p>	<p><b>ONGOING</b> Softball travel budget was increased \$33K in FY12 and \$22K more in FY13, buses are now mandated for use for away competition. Wrestling travel budget was increased \$5,581 in FY11 to account for more coaches travel, but they still do not do overnight stays at competitions to which they drive. In FY11 and FY12, travel budgets for men’s programs increased a net total of \$89,462, women’s programs by a net total of \$213,930, and track and field by a total of \$59,760. Coaches became actively involved in budget projection during the budgeting process within the department each year. In FY13 and FY14 the wrestling team fund raised \$5,000 additional dollars to cover the expenses of overnight stays during travel and will include this cost in their travel budget request for FY15 and going forward. Additionally in FY13, women’s golf, softball, volleyball and track and field/cross country had increases to their travel budgets with a total increase of \$12,417 to overall travel budgeted. On budget projection/wish lists completed by coaches for FY14 travel budgets, men’s golf, wrestling, women’s basketball, soccer, swimming and volleyball all had travel-related budget increases. Due to zero growth budget year, none of the requests were met in their entirety. In FY14 women’s golf, softball and volleyball travel budgets were increased (totaling \$6.7K), track travel budget was increased \$5.6K. NOTE: in FY14, new philosophy of track coach includes only traveling players who will score, which has improved the track travel budget situation. In FY15 soccer and softball travel budgets were increased (totaling \$13K). In FY16 track and field travel budget was decreased by \$10K due to decreased number of athletic participants with new head coach. Assessment of this program component continues and will be fully evaluated in FY17</p>
<p><i>(11-12 Rec) Housing and Dining Facilities and Services:</i> The Athletic Department continues to monitor budgets and trade out dollars to meet the need of each program with regard to pre- and post-game meals and term break dining.</p>	<p><b>COMPLETED and ONGOING</b> In FY12, training table budgets were adjusted with coaches input; \$8,249 more dollars were provided to women’s programs, and \$17,450 in trade out was provided to programs with unmet need. An assessment of training table budgets and trade out allocations will continue. In FY13-FY15 – trade out dollars remained equitable to previous years. In FY15 fueling stations were added to the department, available to all sports programs. A complete review of this program area completed in FY17.</p>

Recommendations Continued	Progress Made Continued
<p>(11-12 Rec) <i>Housing and Dining Facilities and Services</i>: Temporary housing during term breaks and training table for every program, if that is the preference, is a consideration during the budgeting process.</p>	<p><b>ONGOING</b>                      In FY15, it became department policy that student athletes on aid must be provided appropriate room/board when required practices are held over term breaks.                      Training table budgets will continue to be evaluated.</p>
<p>(12-13 Rec) <i>Publicity</i>: Athletic program marketing plans continue to be reviewed and finalized with head coaches in a timely fashion and evaluated periodically throughout the competitive season.</p>	<p><b>ONGOING</b>                      In FY12, a new athletic marketing director was appointed.                      In FY13, a new marketing staff was hired, plans were developed for every sport but continued emphasis needs to be placed on a timely completion and regular communication and execution of marketing plans for each sports program.                      Additional fulltime position to cover marketing for women’s sports or Olympic sports only needs further consideration.</p>
<p>(13-14 Rec) <i>Locker Rooms, Practice and Competitive Facilities</i>: Improve facilities for women’s soccer, softball, swimming, volleyball and sand volleyball practice and competition facilities*</p>	<p><b>ONGOING</b>                      In FY14 a study was completed for improvement of practice pool and upgrading Bronco Gym and repairs were made to audience seating at Appleton Tennis Center for men’s and women’s tennis                      In FY14 and FY15 a fan was installed over the practice pool to improve air quality and starting blocks were replace.                      In FY16 the Auxiliary Gym floor was replaced for men’s and women’s basketball practice facility and Bronco Gym was upgraded for volleyball competition and practice. The floor was resurfaced and redesigned; a new sound system and acoustical banners were installed.                      Improvements have been made to the soccer facility to improve fan experience and field conditions for players.</p>
<p>(13-14 Rec) <i>Locker Rooms, Practice and Competitive Facilities</i>: Improve locker rooms for several women’s teams to be comparable quality to the locker room for the football team or provide women’s teams with benefits superior to men’s teams in other program areas*</p>	<p><b>ONGOING</b>                      In FY14 swimming locker room was remodeled to include new floors, benches and lockers. FY15 the old football locker room was upgraded with new shower and restrooms, converted to become the new women’s track locker room. Soccer locker room was upgraded with new carpet, tile and paint.</p>

\*Recommendations made as strategies to address disparities during review completed by outside consultant in FY14.

**Schedule for Review of Program Areas in Future Years**

<b>Year</b>	<b>Program Areas Reviewed</b>
2016-2017 (written in 2017-18)	Participation Financial Aid Scheduling of Games and Practice Times Travel and Per Diem Allowances Housing and Dining Facilities and Services
2017-2018 (written in 2018-19)	Participation Financial Aid Equipment and Supplies Medical and Training Facilities and Services Publicity
2018-2019 (written in 2019-20)	Participation Financial Aid Locker Rooms, Practice and Competitive Facilities
2019-2010 (written in 2020-21)	Participation Financial Aid Coaching Recruitment of Student-Athletes Support Services Tutoring

**Boise State University  
Equity in Athletics Disclosure Act (EADA) Report  
Report on Athletic Program Participation Rates and Financial Support Data  
July 1, 2015 through June 30, 2016**

**University Enrollment**

Gender	Full-Time Undergraduates	
	Number	Percent
Male Students	5,823	49%
Female Students	6,181	51%
<b>Totals</b>	<b>12,004</b>	<b>100%</b>

**Athletic Student Aid & Recruiting**

Team Gender	Athletically Related Student Aid		Recruiting Expenses Amount
	Amount	Percent	
Men's Teams	\$2,553,743	53%	\$493,493
Women's Teams	\$2,259,721	47%	\$208,433
<b>Totals for All Teams</b>	<b>\$4,813,464</b>	<b>100%</b>	<b>\$701,926</b>

**Athletic Participation**

Sport	Number of Participants		Number of Participants Participating on a Second Team		Number of Participants Participating on a Third Team	
	Men's Teams	Women's Teams	Men's Teams	Women's Teams	Men's Teams	Women's Teams
	Basketball	15	14	0	0	0
Beach Volleyball	0	11	0	11	0	0
Cross Country	18	26	17	25	15	25
Football	114	0	0	0	0	0
Golf	13	10	0	0	0	0
Gymnastics	0	15	0	0	0	0
Soccer	0	30	0	0	0	0
Softball	0	27	0	0	0	0
Swimming and Diving	0	29	0	0	0	0
Tennis	10	10	0	0	0	0
Track, Indoor	33	36	32	33	15	15
Track, Outdoor	31	33	30	30	15	15
Volleyball	0	17	0	11	0	0
Wrestling	34	0	0	0	0	0
Others	0	0	0	0	0	0
<b>Total Participants</b>	<b>268</b>	<b>258</b>	<b>79</b>	<b>110</b>	<b>45</b>	<b>55</b>
<b>Participant Proportion</b>	<b>51.0%</b>	<b>49.0%</b>				
<b>Unduplicated Count of Participants</b>	<b>216</b>	<b>185</b>				

Total Revenues & Expenses

Varsity Teams	Total Revenues			Total Expenses			Revenues minus Expenses		
	Men's	Women's	Totals	Men's	Women's	Totals	Men's	Women's	Totals
Basketball	\$ 4,003,168	\$ 428,050	\$ 4,431,218	\$ 2,503,447	\$ 1,567,408	\$ 4,070,855	\$ 1,499,721	\$ (1,139,358)	\$ 360,363
Beach Volleyball		\$ 16,830	\$ 16,830		\$ 90,128	\$ 90,128	\$ -	\$ (73,298)	\$ (73,298)
Football	\$ 20,321,986		\$ 20,321,986	\$ 9,712,566		\$ 9,712,566	\$ 10,609,420	\$ -	\$ 10,609,420
Golf	\$ 135,570	\$ 202,953	\$ 338,523	\$ 291,598	\$ 316,375	\$ 607,973	\$ (156,028)	\$ (113,422)	\$ (269,450)
Gymnastics		\$ 342,964	\$ 342,964		\$ 635,799	\$ 635,799	\$ -	\$ (292,835)	\$ (292,835)
Soccer		\$ 325,156	\$ 325,156		\$ 656,179	\$ 656,179	\$ -	\$ (331,023)	\$ (331,023)
Softball		\$ 190,353	\$ 190,353		\$ 659,039	\$ 659,039	\$ -	\$ (468,686)	\$ (468,686)
Swimming and Diving		\$ 186,568	\$ 186,568		\$ 717,657	\$ 717,657	\$ -	\$ (531,089)	\$ (531,089)
Tennis	\$ 99,270	\$ 224,690	\$ 323,960	\$ 361,843	\$ 382,017	\$ 743,860	\$ (262,573)	\$ (157,327)	\$ (419,900)
Track	\$ 196,926	\$ 532,796	\$ 729,722	\$ 564,007	\$ 662,096	\$ 1,226,103	\$ (367,081)	\$ (129,300)	\$ (496,381)
Volleyball		\$ 285,438	\$ 285,438		\$ 672,042	\$ 672,042	\$ -	\$ (386,604)	\$ (386,604)
Wrestling	\$ 115,705		\$ 115,705	\$ 467,665		\$ 467,665	\$ (351,960)	\$ -	\$ (351,960)
<b>Totals for All Teams</b>	<b>\$ 24,872,625</b>	<b>\$ 2,735,798</b>	<b>\$ 27,608,423</b>	<b>\$ 13,901,126</b>	<b>\$ 6,358,740</b>	<b>\$ 20,259,866</b>	<b>\$ 10,971,499</b>	<b>\$ (3,622,942)</b>	<b>\$ 7,348,557</b>
Not Allocated by Gender/Sport			\$ 8,490,841			\$ 11,245,623			\$ (2,754,782)
<b>Grand Totals for Athletics</b>			<b>\$ 36,099,264</b>			<b>\$ 31,505,489</b>			<b>\$ 4,593,775</b>
Totals for All Sports Except Football & Basketball	\$ 547,471	\$ 2,307,748	\$ 2,855,219	\$ 1,685,113	\$ 4,791,332	\$ 6,476,445	\$ (1,137,642)	\$ (2,483,584)	\$ (3,621,226)

Operating (Game Day) Expenses

Varsity Teams	Operating (Game Day) Expenses			Number of Participants			Operating Expenses per Participant		
	Men's	Women's	Totals	Men's	Women's	Totals	Men's	Women's	Totals
Basketball	\$681,640	\$439,281	\$1,120,921	15	14	29	\$45,443	\$31,377	\$76,820
Beach Volleyball		21,186	\$21,186		11	11		\$1,926	\$1,926
Football	2,740,037		\$2,740,037	114		114	\$24,035		\$24,035
Golf	99,823	66,624	\$166,447	13	10	23	\$7,679	\$6,662	\$14,341
Gymnastics		152,450	\$152,450		15	15		\$10,163	\$10,163
Soccer		146,236	\$146,236		30	30		\$4,875	\$4,875
Softball		239,701	\$239,701		27	27		\$8,878	\$8,878
Swimming and Diving		177,810	\$177,810		29	29		\$6,131	\$6,131
Tennis	92,772	93,618	\$186,390	10	10	20	\$9,277	\$9,362	\$18,639
Track	138,501	162,588	\$301,089	82	95	177	\$1,689	\$1,711	\$3,400
Volleyball		149,422	\$149,422		17	17		\$8,790	\$8,790
Wrestling	80,502		\$80,502	34		34	\$2,368		\$2,368
<b>Totals for All Teams</b>	<b>\$3,833,275</b>	<b>\$1,648,916</b>	<b>\$5,482,191</b>	<b>268</b>	<b>258</b>	<b>526</b>	<b>\$14,303</b>	<b>\$6,391</b>	<b>\$10,422</b>
Totals for All Sports Except Football & Basketball	\$411,598	\$1,209,635	\$1,621,233	139	244	383	\$21,013	\$58,498	\$79,511



Average Coaching Salaries

Description/Explanation	Head Coaches		Assistant Coaches	
	Women's		Women's	
	Men's Teams	Teams	Men's Teams	Teams
Average Annual Institutional Salary per Coach	\$ 373,848	\$ 88,591	\$148,358	\$47,550
Number of Head Coaches Used to Calculate Average	6	10	19	19
Average Annual Institutional Salary per Full-Time Equivalent (FTE)	\$407,834	\$104,225	\$164,362	\$57,180
Full-Time Equivalents (FTEs) Used to Calculate Average	5.50	8.50	17.15	15.80

Counts of Head Coaches

Varsity Teams	Male Head Coaches				Female Head Coaches				Total Head Coaches
	Assigned Full-Time	Assigned Part Time	Full-Time Employee	Part-Time/Volunteer	Assigned Full-Time	Assigned Part Time	Full-Time Employee	Part-Time/Volunteer	
<b>Men's Varsity Teams</b>									
Basketball	1		1						1
Football	1		1						1
Golf	1		1						1
Tennis	1		1						1
Wrestling	1		1						1
Track & Field & Cross Country		1	1						1
<b>Totals for Men's Teams</b>	<b>5</b>	<b>1</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6</b>
<b>Women's Varsity Teams</b>									
Basketball	1		1						1
Beach Volleyball		1	1						1
Golf					1		1		1
Gymnastics					1		1		1
Soccer	1		1						1
Softball					1		1		1
Swimming & Diving	1		1		0		0		1
Tennis	1		1						1
Track & Field & Cross Country		1	1						1
Volleyball		1	1						1
<b>Totals for Women's Teams</b>	<b>4</b>	<b>3</b>	<b>7</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>10</b>

Counts of Assistant Coaches

Varsity Teams	Male Assistant Coaches				Female Assistant Coaches				Total Assistant Coaches
	Assigned Full-Time	Assigned Part Time	Full-Time Employee	Part-Time/Volunteer	Assigned Full-Time	Assigned Part Time	Full-Time Employee	Part-Time/Volunteer	
<b>Men's Varsity Teams</b>									
Basketball	3		3						3
Football	9	4	9	4					13
Golf		2		2					2
Tennis	1	1	1	1					2
Wrestling	2	2	2	2					4
Track & Field & Cross Country		9	3	6		5		5	14
<b>Totals for Men's Teams</b>	<b>15</b>	<b>18</b>	<b>18</b>	<b>15</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>5</b>	<b>38</b>
<b>Women's Varsity Teams</b>									
Basketball	1		1		2		2		3
Beach Volleyball						2	1	1	2
Golf		1		1					1
Gymnastics	1		1		1		1		2
Soccer	1		1		1		1		2
Softball	1	1	1	1	1		1		3
Swimming & Diving	1	0	1	0	1		1		2
Tennis	1	0	1	0	0	2	0	2	3
Track & Field & Cross Country		9	3	6		5		5	14
Volleyball		1		1	1	1	2		3
<b>Totals for Women's Teams</b>	<b>6</b>	<b>12</b>	<b>9</b>	<b>9</b>	<b>7</b>	<b>10</b>	<b>9</b>	<b>8</b>	<b>35</b>

## **Idaho State University Narrative Summary for Gender Equity FY16**

The Idaho State University Athletic Department has a systematic process to monitor Gender Equity Compliance. The athletic department senior staff meets regularly with coaches to discuss Gender equity concerns and issues. Additionally, during budget meetings and presentations, the coaches and administrators use the gender equity strategies to create the budgets.

During the school year, the Athletic Advisory Board (AAB) annually reviews budgets, the EADA report, the NCAA financial report and other relevant reports to review and monitor the progress being made on gender equity issues within the athletic department.

### **Accommodation of Interest**

Prior to each team's first competition of the year, the athletic administration monitors roster size and athletic participation to insure quality participation opportunities for female student-athletes. This process allows the athletic department to provide equal participation opportunities that matches full time undergraduate enrollment at Idaho State University (ratio of males to females).

During FY16, the Athletic Department maintained compliance with the participation opportunity prong of gender equity requirements. After experiencing a significant demographic shift with the departure of a large number of Middle Eastern male students in FY17, the Athletic Department, following its roster management plans, is projected to achieve compliance with the participation opportunity prong.

### **Financial Aid**

The Athletic Department fully funds Athletic Scholarships in accordance with NCAA Bylaws. These financial opportunities are equitably available between genders. ISU achieved compliance with the financial aid prong of gender equity guidelines in FY16.

In FY17, under a new first year head coach, women's track and field offered scholarships to come close to their overall team equivalency but many prospective student-athletes did not accept their scholarship offer. Determined recruiting efforts in the current business year will optimistically increase the overall team scholarship equivalency in FY18.

### **Equal Treatment within Programs**

The Athletic Director, Faculty Athletic Representative, Title IX Officer, Senior Women's Administrator, Athletic Department business officer and compliance staff work together to educate the university in the areas related to gender equity. The following areas are monitored:

1. Equipment and Supplies
2. Scheduling of practice times and games
3. Team travel and per diem allowance
4. Tutoring
5. Coaches
6. Locker rooms, practice and competition facilities
7. Medical and training facilities and services
8. Housing and dining facilities
9. Publicity and marketing
10. Support services
11. Recruitment of student-athletes

In FY17, the softball program expanded facilities adjacent to the field that included locker rooms, athletic training room, and space for umpires. The funding for this project was donor based.

Renovation plans are underway for upgrading the track and soccer field at Davis Field.

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Equity in Athletics Disclosure Act (EADA) Report  
Report on Athletic Program Participation Rates and Financial Support Data  
July 1, 2015 through June 30, 2016**

**University Enrollment**

Gender	Full-Time Undergraduates	
	Number	Percent
Male Students	3,559	52%
Female Students	3,342	48%
<b>Totals</b>	<b>6,901</b>	<b>100%</b>

**Athletic Student Aid & Recruiting**

Team Gender	Athletically Related Student Aid		Recruiting Expenses Amount
	Amount	Percent	
Men's Teams	\$2,288,786	53%	\$117,435
Women's Teams	2,052,589	47%	93,165
<b>Totals for All Teams</b>	<b>\$4,341,375</b>	<b>100%</b>	<b>\$210,600</b>

**Athletic Participation**

Varsity Teams	Number of Participants			Number Participating on a Second Team		Number Participating on a Third Team	
	Men's	Women's	Total	Men's	Women's	Men's	Women's
Basketball	15	15	30				
Football	85		85				
Golf		9	9				
Soccer		28	28				
Softball		17	17				
Tennis	8	8	16				
Track & Field (Indoor)	38	39	77	37	39	12	13
Track & Field (Outdoor)	40	42	82	37	39	12	13
Cross Country	14	14	28	12	13	12	13
Volleyball		14	14		1		1
<b>Total Participants</b>	<b>200</b>	<b>186</b>	<b>386</b>	<b>86</b>	<b>92</b>	<b>36</b>	<b>40</b>
<b>Percentage of Total</b>	<b>52%</b>	<b>48%</b>	<b>100%</b>				
<b>Unduplicated Count</b>	<b>151</b>	<b>133</b>	<b>284</b>				

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Equity in Athletics Disclosure Act (EADA) Report**

**Total Revenues & Expenses**

Varsity Teams	Total Revenues			Total Expenses			Revenues minus Expenses		
	Men's	Women's	Totals	Men's	Women's	Totals	Men's	Women's	Totals
Basketball	\$1,210,089	\$621,662	\$1,831,751	\$1,290,851	\$1,074,755	\$2,365,606	(\$80,762)	(\$453,093)	(\$533,855)
Football	2,773,849		2,773,849	3,415,712		3,415,712	(641,863)		(641,863)
Golf		87,043	87,043		211,001	211,001		(123,958)	(123,958)
Soccer		533,701	533,701		717,812	717,812		(184,111)	(184,111)
Softball		481,796	481,796		618,149	618,149		(136,353)	(136,353)
Tennis	133,671	169,680	303,351	205,067	297,481	502,548	(71,396)	(127,801)	(199,197)
Track & Field & Cross Country	277,117	265,487	542,604	520,947	577,133	1,098,080	(243,830)	(311,646)	(555,476)
Volleyball		295,380	295,380		600,260	600,260		(304,880)	(304,880)
<b>Totals for All Teams</b>	<b>\$4,394,726</b>	<b>\$2,454,749</b>	<b>\$6,849,475</b>	<b>\$5,432,577</b>	<b>\$4,096,591</b>	<b>\$9,529,168</b>	<b>(\$1,037,851)</b>	<b>(\$1,641,842)</b>	<b>(\$2,679,693)</b>
Not Allocated by Gender/Sport			5,915,302			3,137,829			2,777,473
<b>Grand Totals for Athletics</b>			<b>\$12,764,777</b>			<b>\$12,666,997</b>			<b>\$97,780</b>
Totals for All Sports Except Football & Basketball	\$410,788	\$1,833,087	\$2,243,875	\$726,014	\$3,021,836	\$3,747,850	(\$315,226)	(\$1,188,749)	(\$1,503,975)

**Operating (Game Day) Expenses**

(includes lodging, meals, transportation, uniforms, equipment, event costs & officials)

Varsity Teams	Operating (Game Day) Expenses			Number of Participants			Operating Expenses per Participant		
	Men's	Women's	Totals	Men's	Women's	Totals	Men's	Women's	Totals
Basketball	\$368,139	\$255,718	\$623,857	15	15	30	\$24,543	\$17,048	\$20,795
Football	855,802		855,802	85		85	10,068		10,068
Golf		47,182	47,182		9	9		5,242	5,242
Soccer		122,570	122,570		28	28		4,378	4,378
Softball		140,201	140,201		17	17		8,247	8,247
Tennis	30,672	27,298	57,970	8	8	16	3,834	3,412	3,623
Track & Field & Cross Country	81,058	79,248	160,306	92	95	187	881	834	857
Volleyball		120,593	120,593		14	14		8,614	8,614
<b>Totals for All Teams</b>	<b>\$1,335,671</b>	<b>\$792,810</b>	<b>\$2,128,481</b>	<b>200</b>	<b>186</b>	<b>386</b>	<b>\$6,678</b>	<b>\$4,262</b>	<b>\$5,514</b>
Totals for All Sports Except Football & Basketball	\$111,730	\$537,092	\$648,822	100	171	271	\$1,117	\$3,141	\$2,394

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Average Coaching Salaries

Description/Explanation	Head Coaches		Assistant Coaches	
	Men's Teams	Women's Teams	Men's Teams	Women's Teams
Average Annual Institutional Salary per Coach	\$61,112	\$43,825	\$37,848	\$20,276
Number of Head Coaches Used to Calculate Average	6	9	14	12
Average Annual Institutional Salary per Full-Time Equivalent (FTE)	\$99,639	\$63,108	\$45,327	\$29,350
Full-Time Equivalent (FTEs) Used to Calculate Average	3.68	6.25	11.69	8.29

Counts of Head Coaches

Varsity Teams	Male Head Coaches				Female Head Coaches				Total Head Coaches
	Assigned Full-Time	Assigned Part Time	Full-Time Employee	Part-Time/Volunteer	Assigned Full-Time	Assigned Part Time	Full-Time Employee	Part-Time/Volunteer	
<b>Men's Varsity Teams</b>									
Basketball		1	1						1
Football		1	1						1
Tennis		1		1					1
Track & Field & Cross Country		2	2			1	1		3
<b>Totals for Men's Teams</b>	<b>0</b>	<b>5</b>	<b>4</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>6</b>
<b>Women's Varsity Teams</b>									
Basketball		1	1						1
Golf						1		1	1
Soccer					1		1		1
Softball					1		1		1
Tennis						1		1	1
Track & Field & Cross Country		2	2			1	1		3
Volleyball		1	1						1
<b>Totals for Women's Teams</b>	<b>0</b>	<b>4</b>	<b>4</b>	<b>0</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>9</b>

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Equity in Athletics Disclosure Act (EADA) Report**

**Counts of Assistant Coaches**

Varsity Teams	Male Assistant Coaches				Female Assistant Coaches				Total Assistant Coaches
	Assigned Full-Time	Assigned Part Time	Full-Time Employee	Part-Time/Volunteer	Assigned Full-Time	Assigned Part Time	Full-Time Employee	Part-Time/Volunteer	
<b>Men's Varsity Teams</b>									
Basketball	3		3						3
Football	8		8	4					8
Tennis									0
Track & Field & Cross Country		2		2		2	1	1	4
<b>Totals for Men's Teams</b>	<b>11</b>	<b>2</b>	<b>11</b>	<b>6</b>	<b>0</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>15</b>
<b>Women's Varsity Teams</b>									
Basketball	2		2		1		1		3
Golf		1		1					1
Soccer	1	1	1	1					2
Softball					1	1	1	1	2
Tennis									0
Track & Field & Cross Country		2		2		2	1	1	4
Volleyball					1	1	1	1	2
<b>Totals for Women's Teams</b>	<b>3</b>	<b>4</b>	<b>3</b>	<b>4</b>	<b>3</b>	<b>4</b>	<b>4</b>	<b>3</b>	<b>14</b>



## **University of Idaho Gender Equity Narrative**

The University of Idaho annually conducts a gender equity assessment that includes interviews with all head coaches and some student-athletes. The results of these conversations have produced resource reallocation and adjustments to specific sports budgets. Gender equity issues are taken seriously by the Department of Athletics and the University of Idaho.

### **I. Participation Opportunities**

The University of Idaho is projecting compliance with the participation opportunity prong of gender equity requirements in FY17 and beyond. Current UI undergraduate enrollment is 53.53% male and student-athlete participation is 52.29% male. This results in a 1.24% differential with males being the underrepresented gender. This differential is slightly higher than the allowed variance of +/-1%. Assuming a consistent enrollment differential and with a continued dedication to providing participation opportunities for men and women, the University of Idaho anticipates continued strict compliance with gender equity guidelines.

### **II. Financial Aid**

Though making progress from FY16, the University of Idaho is not currently in compliance with this prong of gender equity guidelines. The department is studying the involved factors and is committed to achieving compliance. In FY16 the number of unduplicated males and females has a ratio of 56.16% favoring males with 164 males and 128 females participating. The dollar amounts awarded respectively are \$3,321,437 and \$2,344,904 for a 58.62%/41.38% ratio. When the unduplicated participant ratio is compared to the financial aid awarded ratio it results in a 2.46% variance. This variance can be brought into compliance by effecting the unduplicated participant ratio, the financial aid totals ratio, or a combination of the two.

We will try to maintain the number of female student-athletes while slightly increasing the number male student-athletes. This will bring the variance closer to compliance. In addition we will encourage coaches in our women's programs to fully allocate all of their available scholarships. This will also close the variance, and, when coupled with our participant efforts will bring us within +/- 1%.

**IV. Equal Treatment within Programs**

The Gender Equity Committee is currently performing the 2016-17 self-study for the Athletic Department. The committee noted that for the 2015-16 academic year, the department made several strides in updating facilities. The women's tennis program updated their locker room with fresh paint and updated wall decals to match the men's locker room. The men's and women's golf programs updated their locker room, a shared facility, with new paint and carpet. Additionally, both programs now have access to a newly constructed hitting facility that opened this fall 2016. In conjunction with the new office spaces that were constructed for a portion of the football staff in 2014-15, the women's soccer coaches were relocated from a single room office to a two office suite with a meeting area. The women's soccer program updated their locker room with additional storage to provide lockers for all members of their roster, fresh paint, and fresh tile in the shower area. The maintenance crew also repaired shower heads and a latrine that was out of commission for a year to accommodate the large roster. Last, university facilities purchased a slightly used, but updated competition court for the women's volleyball program as the current one was several years out of date. The committee noted that due to budgetary constraints, most of these facility updates required fundraising efforts from individual programs with the exception of the volleyball competition court. Representatives consist of Faculty Athletic Representative, University Title IX Coordinator, Senior Woman Administrator, Faculty Representative and Coaching Representative. The interviews did not reveal any serious deficiencies.

**V. Conclusion**

As indicated in the attached spreadsheet, the University of Idaho dedicates significant resources toward gender equity compliance. In fact, the SBOE approved gender equity funding accounts for less than 20% of our FY16 gender equity obligations. The University of Idaho will continue to meet Title IX Prong One compliance through roster management. In an effort to meet Title IX Prong Two compliance, we will monitor rosters and encourage the use of all available scholarships in our women's programs.

**University of Idaho**  
**Equity in Athletics Disclosure Act (EADA) Report**  
**Report on Athletic Program Participation Rates and Financial Support Data**  
**July 1, 2015 through June 30, 2016**

**University Enrollment**

Gender	Full-Time Undergraduates	
	Number	Percent
Male Students	3,871	53%
Female Students	3,402	47%
<b>Totals</b>	<b>7,273</b>	<b>100%</b>

**Athletic Student Aid & Recruiting**

Team Gender	Athletically Related Student Aid		Recruiting Expenses Amount
	Amount	Percent	
Men's Teams	\$3,321,437	59%	\$296,754
Women's Teams	2,344,904	41%	163,365
<b>Totals for All Teams</b>	<b>\$5,666,341</b>	<b>100%</b>	<b>\$460,119</b>

**Athletic Participation**

Varsity Teams	Number of Participants			Number Participating on a Second Team		Number Participating on a Third Team	
	Men's	Women's	Total	Men's	Women's	Men's	Women's
Basketball	16	15	31				
Football	101		101	1		1	
Golf	9	7	16				
Soccer		24	24		1		1
Swimming & Diving		30	30				
Tennis	6	7	13				
Track & Field (Indoor)	32	31	63	31	30	11	13
Track & Field (Outdoor)	31	30	61	32	31	10	13
Cross Country	12	13	25	11	13	10	13
Volleyball		16	16		1		1
<b>Total Participants</b>	<b>207</b>	<b>173</b>	<b>380</b>	<b>75</b>	<b>76</b>	<b>32</b>	<b>41</b>
<b>Percentage of Total</b>	<b>54%</b>	<b>46%</b>	<b>100%</b>				
<b>Unduplicated Count</b>	<b>164</b>	<b>128</b>	<b>292</b>				

**University of Idaho**  
**Equity in Athletics Disclosure Act (EADA) Report**

**Total Revenues & Expenses**

Varsity Teams	Total Revenues			Total Expenses			Revenues minus Expenses		
	Men's	Women's	Totals	Men's	Women's	Totals	Men's	Women's	Totals
Basketball	\$1,821,491	\$1,419,275	\$3,240,766	\$1,821,491	\$1,419,275	\$3,240,766	\$0	\$0	\$0
Football	6,913,838		6,913,838	6,561,109		6,561,109	352,729		352,729
Golf	316,670	341,580	658,250	316,670	341,580	658,250	0	0	0
Soccer		752,726	752,726		752,726	752,726		0	0
Swimming & Diving		740,142	740,142		740,142	740,142		0	0
Tennis	290,955	386,011	676,966	290,955	386,011	676,966	0	0	0
Track & Field & Cross Country	580,543	647,002	1,227,545	580,543	621,971	1,202,514	0	25,031	25,031
Volleyball		907,749	907,749		907,749	907,749		0	0
<b>Totals for All Teams</b>	<b>\$9,923,497</b>	<b>\$5,194,485</b>	<b>\$15,117,982</b>	<b>\$9,570,768</b>	<b>\$5,169,454</b>	<b>\$14,740,222</b>	<b>\$352,729</b>	<b>\$25,031</b>	<b>\$377,760</b>
Not Allocated by Gender/Sport			4,906,349			5,327,610			(421,261)
<b>Grand Totals for Athletics</b>			<b>\$20,024,331</b>			<b>\$20,067,832</b>			<b>(\$43,501)</b>
Totals for All Sports Except Football & Basketball	\$1,188,168	\$3,775,210	\$4,963,378	\$1,188,168	\$3,750,179	\$4,938,347	\$0	\$25,031	\$25,031

**Operating (Game Day) Expenses**

(includes lodging, meals, transportation, uniforms, equipment, event costs & officials)

Varsity Teams	Operating (Game Day) Expenses			Number of Participants			Operating Expenses per Participant		
	Men's	Women's	Totals	Men's	Women's	Totals	Men's	Women's	Totals
Basketball	\$535,448	\$459,289	\$994,737	16	15	31	\$33,466	\$30,619	\$32,088
Football	1,744,118		1,744,118	101		101	17,268		17,268
Golf	119,530	81,708	201,238	9	7	16	13,281	11,673	12,577
Soccer		189,483	189,483		24	24		7,895	7,895
Swimming & Diving		161,904	161,904		30	30		5,397	5,397
Tennis	86,237	83,705	169,942	6	7	13	14,373	11,958	13,072
Track & Field & Cross Country	112,353	112,290	224,643	75	74	149	1,498	1,517	1,508
Volleyball		213,401	213,401		16	16		13,338	13,338
<b>Totals for All Teams</b>	<b>\$2,597,686</b>	<b>\$1,301,780</b>	<b>\$3,899,466</b>	<b>207</b>	<b>173</b>	<b>380</b>	<b>\$12,549</b>	<b>\$7,525</b>	<b>\$10,262</b>
Totals for All Sports Except Football & Basketball	\$318,120	\$842,491	\$1,160,611	90	158	248	\$3,535	\$5,332	\$4,680

**University of Idaho  
Equity in Athletics Disclosure Act (EADA) Report**

**Average Coaching Salaries**

Description/Explanation	Head Coaches		Assistant Coaches	
	Men's Teams	Women's Teams	Men's Teams	Women's Teams
<b>Average Annual Institutional Salary per Coach</b>	<b>\$97,013</b>	<b>\$64,557</b>	<b>\$68,363</b>	<b>\$31,083</b>
<b>Number of Head Coaches Used to Calculate Average</b>	<b>5</b>	<b>7</b>	<b>14</b>	<b>10</b>
<b>Average Annual Institutional Salary per Full-Time Equivalent (FTE)</b>	<b>\$107,792</b>	<b>\$69,523</b>	<b>\$73,622</b>	<b>\$34,536</b>
<b>Full-Time Equivalents (FTEs) Used to Calculate Average</b>	<b>4.50</b>	<b>6.50</b>	<b>13.00</b>	<b>9.00</b>

**Counts of Head Coaches**

Varsity Teams	Male Head Coaches				Female Head Coaches				Total Head Coaches
	Assigned Full-Time	Assigned Part Time	Full-Time Employee	Part-Time/Volunteer	Assigned Full-Time	Assigned Part Time	Full-Time Employee	Part-Time/Volunteer	
<b>Men's Varsity Teams</b>									
Basketball	1		1						1
Football	1		1						1
Golf	1		1						1
Tennis	1		1						1
Track & Field & Cross Country		1	1						1
<b>Totals for Men's Teams</b>	<b>4</b>	<b>1</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5</b>
<b>Women's Varsity Teams</b>									
Basketball	1		1						1
Golf					1		1		1
Soccer	1		1						1
Swimming & Diving	1		1						1
Tennis					1		1		1
Track & Field & Cross Country		1	1						1
Volleyball					1		1		1
<b>Totals for Women's Teams</b>	<b>3</b>	<b>1</b>	<b>4</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>7</b>

**University of Idaho**  
**Equity in Athletics Disclosure Act (EADA) Report**

**Counts of Assistant Coaches**

Varsity Teams	Male Assistant Coaches				Female Assistant Coaches				Total Assistant Coaches
	Assigned Full-Time	Assigned Part Time	Full-Time Employee	Part-Time/Volunteer	Assigned Full-Time	Assigned Part Time	Full-Time Employee	Part-Time/Volunteer	
<b>Men's Varsity Teams</b>									
Basketball	3		3						3
Football	9	4	9	4					13
Golf		1		1					1
Tennis		1		1					1
Track & Field & Cross Country		2	1	1		1	1		3
<b>Totals for Men's Teams</b>	<b>12</b>	<b>8</b>	<b>13</b>	<b>7</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>21</b>
<b>Women's Varsity Teams</b>									
Basketball					3	1	3	1	4
Golf		1		1		1		1	2
Soccer	1		1			1		1	2
Swimming & Diving	1		1		1		1		2
Tennis									0
Track & Field & Cross Country		2	1	1		1	1		3
Volleyball	1		1		1	1	1	1	3
<b>Totals for Women's Teams</b>	<b>3</b>	<b>3</b>	<b>4</b>	<b>2</b>	<b>5</b>	<b>5</b>	<b>6</b>	<b>4</b>	<b>16</b>

**Gender Equity – Narrative  
Lewis-Clark State College**

**I. Accommodation of Interests**

The athletic participation review for FY17 is still in progress. In FY16, athletic participation was 58% men to 42% women. LCSC's fulltime undergraduate enrollment in FY16 was 40% male and 60% female. Test one (proportionality) of the Accommodation of Interests requirement can be addressed with additional resources. The growth of men's track and the demand for growth in other men's sports requires a deliberate investment in women's sports to offset. LCSC has strived to meet compliance in Accommodation of Interests test two (program expansion that is responsive to the underrepresented gender), but we are hampered in our efforts by resource constraints (including the limits on Athletic funding) and challenges with regard to facilities. These challenges include additional dorm space, practice and competition facilities. We require the Board's support in pursuing opportunities to address these challenges.

**II. Athletic Student Aid**

The Financial Assistance requirement of Title IX is being met. Athletic student aid totals (allocation of actual resources in FY16) was 52% to males, 48% to females.

**III. Equal Treatment of Programs**

LCSC is also compliant with the Equal Treatment of Programs requirement of Title IX, but we are again hampered in our efforts to remain so, due to resource constraints. We regularly review and evaluate the quality, availability, and maintenance of all Athletic facilities, but our future success in achieving Title IX compliance hinges greatly on the ability to invest in new Athletic facilities.

LCSC has not (yet) asked for a separate dollar limit or policy waiver to fund gender equity initiatives, but does not rule out approaching the Board in the future to propose the addition of another women's sport, with the goal of achieving full compliance with Title IX. Such a proposal would require reexamination of the existing Board limits placed upon the College's Athletic programs, which disproportionately disadvantage us, relative to the universities, when it comes to investing in new athletic programs.

**Lewis-Clark State College**  
**Equity in Athletics Disclosure Act (EADA) Report**  
**Report on Athletic Program Participation Rates and Financial Support Data**  
**July 1, 2015 through June 30, 2016**

**University Enrollment**

Gender	Full-Time Undergraduates	
	Number	Percent
Male Students	904	40%
Female Students	1,346	60%
<b>Totals</b>	<b>2,250</b>	<b>100%</b>

**Athletic Student Aid & Recruiting**

Team Gender	Athletically Related Student Aid		Recruiting Expenses Amount
	Amount	Percent	
Men's Teams	\$1,047,884	52%	\$8,854
Women's Teams	950,533	48%	10,092
<b>Totals for All Teams</b>	<b>\$1,998,417</b>	<b>100%</b>	<b>\$18,946</b>

**Athletic Participation**

Varsity Teams	Number of Participants			Number Participating on a Second Team		Number Participating on a Third Team	
	Men's	Women's	Total	Men's	Women's	Men's	Women's
Baseball	40		40				
Basketball	14	12	26				
Golf	9	11	20				
Tennis	12	12	24				
Track & Field (Indoor)	37	27	64	35	21	16	7
Track & Field (Outdoor)	35	23	58	35	22	16	7
Cross Country	17	15	32	16	12	16	7
Volleyball		19	19				
<b>Total Participants</b>	<b>164</b>	<b>119</b>	<b>283</b>	<b>86</b>	<b>55</b>	<b>48</b>	<b>21</b>
<b>Percentage of Total</b>	<b>58%</b>	<b>42%</b>	<b>100%</b>				
<b>Unduplicated Count</b>	<b>113</b>	<b>85</b>	<b>198</b>				



**Lewis-Clark State College**  
**Equity in Athletics Disclosure Act (EADA) Report**

**Total Revenues & Expenses**

Varsity Teams	Total Revenues			Total Expenses			Revenues minus Expenses		
	Men's	Women's	Totals	Men's	Women's	Totals	Men's	Women's	Totals
Baseball	\$880,369		\$880,369	\$880,369		\$880,369	\$0		\$0
Basketball	438,939	355,675	794,614	438,939	355,675	794,614	0	0	0
Golf	117,896	195,916	313,812	117,896	195,916	313,812	0	0	0
Tennis	117,986	140,064	258,050	117,986	140,064	258,050	0	0	0
Track & Field (Indoor)	35,715	76,560	112,275	35,715	76,560	112,275	0	0	0
Track & Field (Outdoor)	53,572	114,840	168,412	53,572	114,840	168,412	0	0	0
Cross Country	136,257	205,465	341,722	136,257	205,465	341,722	0	0	0
Volleyball		410,615	410,615		410,615	410,615		0	0
<b>Totals for All Teams</b>	<b>\$1,780,734</b>	<b>\$1,499,135</b>	<b>\$3,279,869</b>	<b>\$1,780,734</b>	<b>\$1,499,135</b>	<b>\$3,279,869</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
Not Allocated by Gender/Sport			675,684			623,260			52,424
<b>Grand Totals for Athletics</b>	<b>\$1,780,734</b>	<b>\$1,499,135</b>	<b>\$3,955,553</b>	<b>\$1,780,734</b>	<b>\$1,499,135</b>	<b>\$3,903,129</b>	<b>\$0</b>	<b>\$0</b>	<b>\$52,424</b>
Totals for All Sports Except Baseball & Basketball	\$461,426	\$1,143,460	\$1,604,886	\$461,426	\$1,143,460	\$1,604,886	\$0	\$0	\$0

**Operating (Game Day) Expenses**

(includes lodging, meals, transportation, uniforms, equipment, event costs & officials)

Varsity Teams	Operating (Game Day) Expenses			Number of Participants			Operating Expenses per Participant		
	Men's	Women's	Totals	Men's	Women's	Totals	Men's	Women's	Totals
Baseball	\$97,482		\$97,482	40		40	\$2,437		\$2,437
Basketball	57,693	58,206	115,899	14	12	26	4,121	\$4,851	4,458
Golf	24,495	25,490	49,985	9	11	20	2,722	2,317	2,499
Tennis	12,842	13,463	26,305	12	12	24	1,070	1,122	1,096
Track & Field (Indoor)	12,079	13,836	25,915	37	27	64	326	512	405
Track & Field (Outdoor)	18,119	20,754	38,873	35	23	58	518	902	670
Cross Country	26,675	30,163	56,838	17	15	32	1,569	2,011	1,776
Volleyball		84,501	84,501		19	19		4,447	4,447
<b>Totals for All Teams</b>	<b>\$249,385</b>	<b>\$246,413</b>	<b>\$495,798</b>	<b>164</b>	<b>119</b>	<b>283</b>	<b>\$1,521</b>	<b>\$2,071</b>	<b>\$1,752</b>
Totals for All Sports Except Baseball & Basketball	\$94,210	\$188,207	\$282,417	110	107	217	\$856	\$1,759	\$1,301

Lewis-Clark State College  
Equity in Athletics Disclosure Act (EADA) Report

Average Coaching Salaries

Description/Explanation	Head Coaches		Assistant Coaches	
	Men's Teams	Women's Teams	Men's Teams	Women's Teams
Average Annual Institutional Salary per Coach	\$22,793	\$21,375	\$15,328	\$6,114
Number of Head Coaches Used to Calculate Average	7	7	7	5
Average Annual Institutional Salary per Full-Time Equivalent (FTE)	\$57,808	\$53,059	\$39,593	\$35,965
Full-Time Equivalents (FTEs) Used to Calculate Average	2.76	2.82	2.71	0.85

Counts of Head Coaches

Varsity Teams	Male Head Coaches				Female Head Coaches				Total Head Coaches
	Assigned Full-Time	Assigned Part Time	Full-Time Employee	Part-Time/Volunteer	Assigned Full-Time	Assigned Part Time	Full-Time Employee	Part-Time/Volunteer	
<b>Men's Varsity Teams</b>									
Baseball	1		1						1
Basketball	1		1						1
Golf		1		1					1
Tennis		1	1						1
Track & Field (Indoor)		1	1						1
Track & Field (Outdoor)		1	1						1
Cross Country		1	1						1
<b>Totals for Men's Teams</b>	<b>2</b>	<b>5</b>	<b>6</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7</b>
<b>Women's Varsity Teams</b>									
Basketball	1		1						1
Golf		1		1					1
Tennis		1	1						1
Track & Field (Indoor)		1	1						1
Track & Field (Outdoor)		1	1						1
Cross Country		1	1						1
Volleyball					1		1		1
<b>Totals for Women's Teams</b>	<b>1</b>	<b>5</b>	<b>5</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>7</b>

Lewis-Clark State College  
Equity in Athletics Disclosure Act (EADA) Report

Counts of Assistant Coaches

Varsity Teams	Male Assistant Coaches				Female Assistant Coaches				Total Assistant Coaches
	Assigned Full-Time	Assigned Part Time	Full-Time Employee	Part-Time/Volunteer	Assigned Full-Time	Assigned Part Time	Full-Time Employee	Part-Time/Volunteer	
<b>Men's Varsity Teams</b>									
Baseball	2		2						2
Basketball		1		1					1
Golf		1		1					1
Tennis									0
Track & Field (Indoor)		1	1						1
Track & Field (Outdoor)		1	1						1
Cross Country		1	1						1
<b>Totals for Men's Teams</b>	<b>2</b>	<b>5</b>	<b>5</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7</b>
<b>Women's Varsity Teams</b>									
Basketball						1		1	1
Golf		1		1					1
Tennis									0
Track & Field (Indoor)		1	1						1
Track & Field (Outdoor)		1	1						1
Cross Country		1	1						1
Volleyball									0
<b>Totals for Women's Teams</b>	<b>0</b>	<b>4</b>	<b>3</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>5</b>

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**BUSINESS AFFAIRS AND HUMAN RESOURCES**  
**APRIL 20, 2017**

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**SUBJECT**

FY 2018 Appropriation Information – Institutions and Agencies of the State Board of Education

**APPLICABLE STATUTE, RULE, OR POLICY**

Applicable Legislative Appropriation Bills (2017)

**BACKGROUND/ DISCUSSION**

The 2017 Legislature has passed appropriation bills for the agencies and institutions of the Board.

The table on Tab 4a page 2 lists the FY 2018 appropriation bills related to the State Board of Education.

**IMPACT**

Appropriation bills provide funding and spending authority for the agencies and institutions of the State Board of Education allowing them to offer programs and services to Idaho's citizens.

**ATTACHMENTS**

Attachment 1 – FY 2018 Appropriations List

Page 2

**STAFF COMMENTS**

Staff comments and recommendations are included for each specific institution and agency allocation.

**BOARD ACTION**

Motions for the allocations for College and Universities, Community Colleges, and Career Technical Education are found on each specific institution and agency allocation.

**BUSINESS AFFAIRS AND HUMAN RESOURCES  
APRIL 20, 2017**

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**ATTACHMENT 1**

**State Board of Education  
FY 2018 Appropriations to Institutions and Agencies**

	<b>General Fund</b>	<b>% Δ From FY 2017</b>	<b>Total Fund</b>
<b><u>Allocations</u></b>			
College and Universities	\$287,053,200	2.7%	\$564,958,700
Community Colleges	39,400,900	6.7%	40,000,900
Career Technical Education	65,372,000	5.3%	74,754,900
<b><u>Agencies</u></b>			
Agricultural Research & Extension Service	31,263,300	2.4%	31,287,300
Health Education Programs	15,594,200	15.4%	15,905,800
Special Programs	15,562,200	.9%	19,686,600
Office of the State Board of Education	5,584,900	60.6%	9,036,500
Idaho Public Television	3,327,200	10.1%	9,633,100
Division of Vocational Rehabilitation Division	8,589,000	3.0%	28,175,900
State Department of Education (Superintendent of Public Instruction)	14,189,200	0.0%	38,818,000
<b><u>Statewide Issues</u></b>			
Major Capital Projects			
Boise State University: Center for Materials Science			\$10,000,000
Idaho State University: Gale Life Science remodel			10,000,000
University of Idaho: WWAMI Building remodel			2,400,000
University of Idaho: Center for Ag. Food and Environment			10,000,000
Lewis-Clark State College: Career-Technical Education Building			10,000,000

**BUSINESS AFFAIRS AND HUMAN RESOURCES**  
**APRIL 20, 2017**

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**SUBJECT**

FY 2018 College and Universities Appropriation Allocation

**APPLICABLE STATUTE, RULE, OR POLICY**

Idaho State Board of Education Governing Policies & Procedures, Section V.S.  
Senate Bill 1152 (2017)

**BACKGROUND/DISCUSSION**

The Legislature appropriates to the State Board of Education and the Board of Regents monies for the general education programs at Boise State University (BSU), Idaho State University (ISU), University of Idaho (UI), Lewis-Clark State College (LCSC), and system-wide needs. The Board allocates the appropriation to the four institutions based on legislative intent and Board Policy, Section V.S.

According to Board policy, the allocation is made in the following order: 1) each institution shall be allocated its prior year budget base; 2) funds for the Enrollment Workload Adjustment (EWA); 3) operations and maintenance funds for new, major general education capital improvement projects.; 4) decision units above the base; and 5) special activities or projects at the discretion of the Board.

At the October 2016 Board meeting the Board waived Board policy Section V.S., subsection II.B. Enrollment Workload Adjustment, for the 2018 fiscal year as part of the work to move from the EWA distribution formula to outcomes-based funding.

This action allocates the FY 2018 College and Universities appropriation to the institutions for general education programs and system-wide needs. These funds allocated along with revenue generated from potential fee increases will establish the operating budgets for the general education program for FY 2018. The allocation for FY 2018 is shown on Tab 4b page 3. The FY 2018 general fund appropriation includes the following items:

Maintenance of Current Operations (MCO):

• Ongoing base funding for benefit cost increases	\$ 1,619,400
• Inflation	10,600
• One-time replacement capital	329,400
• 3% ongoing Change in Employee Compensation (CEC)	5,933,700
• Statewide cost allocation	28,400
• Compensation Schedule Changes	13,500
• Enrollment Workload Adjustment (EWA)	(1,265,300)

Line Items:

• Occupancy costs	1,677,200
• Economic Workforce Development (BSU)	2,088,800
• Idaho Falls Polytechnic Initiative (ISU)	1,827,900
• Center for Education Innovation (ISU)	200,000
• Computer Science in Coeur d'Alene (UI)	715,100

**BUSINESS AFFAIRS AND HUMAN RESOURCES**  
**APRIL 20, 2017**

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• Library Investment (UI)	582,000
• Health Profession Education Expansion (LCSC)	255,500
• Advising and Career Readiness (LCSC)	338,500
• Enrollment Workload Adjustment (EWA)	2,379,700
• Cybersecurity Insurance	<u>144,000</u>
Total General Fund increase over Base	\$16,878,400

**ATTACHMENTS**

Attachment 1 - C&U FY 2018 Appropriation Allocation	Page 3
Attachment 2 - Statement of Purpose/Fiscal Note	Page 5
Attachment 3 - Appropriation Bill (S1152)	Page 9

**STAFF COMMENTS**

Staff recommends approval of the FY 2018 College and Universities allocation as presented in Attachment 1.

**BOARD ACTION**

I move to approve the allocation of the FY 2018 appropriation for Boise State University, Idaho State University, University of Idaho, Lewis-Clark State College, and system-wide needs, as presented on Tab 4b, Page 3.

Moved by \_\_\_\_\_ Seconded by \_\_\_\_\_ Carried Yes \_\_\_\_\_ No \_\_\_\_\_



**FY 2018 College and University Allocation  
Based on SB 1152**

March 10, 2017

<b>Appropriation:</b>	<b>FY17 Appr</b>	<b>FY18 Appr</b>	<b>% Chge</b>	<b>Sys Needs:</b>	<b>FY17 Appr</b>	<b>FY18 Appr</b>
<b>General Educ Approp: SB 1152</b>				HERC	<u>1,958,000</u>	<u>1,960,500</u>
General Account	279,546,500	287,053,200	2.69%	UG Research	<u>200,000</u>	<u>200,000</u>
Endowment Funds	15,840,000	15,840,000	0.00%	Sys Nds	<u>906,300</u>	<u>905,300</u>
				IGEM	<u>2,000,000</u>	<u>2,000,000</u>
Total Gen Acct & Endow Funds	<u>295,386,500</u>	<u>302,893,200</u>	2.54%	Total	<u>5,064,300</u>	<u>5,065,800</u>
Student Fees/Misc Revenue	259,589,300	262,065,500	0.95%			
One-time Economic Recovery//Millennium:	<u>1,686,100</u>	<u>0</u>				
Total Gen Educ Approp	<u>556,661,900</u>	<u>564,958,700</u>	1.49%			
<b>Allocation:</b>	<b>BSU</b>	<b>ISU</b>	<b>UI</b>	<b>LCSC</b>	<b>SYS-WIDE</b>	<b>TOTAL</b>
FY17 General Account	89,887,100	72,576,000	86,863,800	15,783,600	5,064,300	270,174,800
FY17 Endowment Funds	0	3,513,200	10,099,200	2,131,200	0	15,743,600
<b>FY17 Budget Base</b>	<u>89,887,100</u>	<u>76,089,200</u>	<u>96,963,000</u>	<u>17,914,800</u>	<u>5,064,300</u>	<u>285,918,400</u>
<b>Additional Funding for FY18:</b>						
MCO Adjustments:						
Personnel Benefits	649,100	652,600	205,100	154,000		1,660,800
Inflation including Library B&P	0	0	201,400	0	1,500	202,900
Replacement Capital	0	0	0	329,400		329,400
CEC: 3.0% onging	1,894,800	1,803,300	2,088,300	343,500		6,129,900
Compensation Schedule Changes	12,900	0	0	600		13,500
Endowment Fund Adjustments	0	(17,600)	(315,900)	0		(333,500)
Nonstandard Adjustments:						
Risk Mgmt/Controller/Treasurer	18,600	(5,800)	21,700	(6,100)		28,400
External Nonstandard Adjustments:						
Enrollment Workload Adjustment (EWA)	1,114,400	(993,700)	(1,041,400)	(344,600)		(1,265,300)
Line Items						
Economic Workforce Development	2,088,800	0	0	0	0	2,088,800
Idaho Falls Polytechnic Initiative	0	1,827,900	0	0	0	1,827,900
Center for Education Innovation	0	200,000	0	0	0	200,000
Computer Science in Coeur d'Alene	0	0	715,100	0	0	715,100
Library Investment	0	0	582,000	0	0	582,000
Health Prof. Education Expansion	0	0	0	255,500	0	255,500
Advising and Career Readiness	0	0	0	338,500	0	338,500
Occupancy Costs	425,100	109,100	1,049,100	93,900	0	1,677,200
Enrollment Workload Adjustment Restoration	0	993,700	1,041,400	344,600	0	2,379,700
Cybersecurity Insurance	121,500	1,200	20,500	800	0	144,000
Total Addl Funding	<u>6,325,200</u>	<u>4,570,700</u>	<u>4,567,300</u>	<u>1,510,100</u>	<u>1,500</u>	<u>16,974,800</u>
<b>FY18 Gen Acct &amp; Endow Allocation</b>	<u>96,212,300</u>	<u>80,659,900</u>	<u>101,530,300</u>	<u>19,424,900</u>	<u>5,065,800</u>	<u>302,893,200</u>
% Change From FY17 Adjusted Budget Base	7.04%	6.01%	4.71%	8.43%	0.03%	5.94%
FY18 Estimated Student Fee Revenue	98,541,000	71,037,800	76,455,200	16,031,500	0	262,065,500
FY18 Operating Budget	<u>194,753,300</u>	<u>151,697,700</u>	<u>177,985,500</u>	<u>35,456,400</u>	<u>5,065,800</u>	<u>564,958,700</u>
General Fund Increase	6,369,700	4,274,800	3,392,900	1,376,500	1,500	15,415,400
% Increase	7.1%	5.9%	3.9%	8.7%	0.0%	5.7%
General Fund Increase - ongoing	6,325,200	3,835,300	3,832,300	1,168,700	1,500	15,163,000
% Increase	7.0%	5.3%	4.4%	7.4%	0.0%	5.6%
General Fund Increase - ongoing less Benefits & CEC	3,781,300	1,379,400	1,538,900	671,200	1,500	7,372,300
% Increase	4.2%	1.9%	1.8%	4.3%	0.0%	2.7%

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## STATEMENT OF PURPOSE

## RS25470

This is the FY 2018 appropriation to the State Board of Education for College and Universities in the amount of \$564,958,700. This appropriation provides for increased cost of benefits, an increase for statewide cost allocation, and inflationary adjustments. The appropriation also provides for an ongoing 3% merit-based increase in employee compensation for permanent employees to be distributed at the discretion of agency heads and institution presidents.

Additionally, it provides a decrease in nondiscretionary adjustment for enrollment workload decreases and an increase for endowment earnings. Also included is \$329,400 one-time from the General Fund to replace computer equipment at Lewis-Clark State College and \$235,400 one-time of dedicated funds for replacement items at the University of Idaho. This appropriation includes nine line items.

Line item 2 provides 20.00 FTP and \$2,088,800 ongoing from the General Fund to Boise State University to expand program options and implement new initiatives related to economic and workforce development. This line item included the following aspects: (1) Expand COOP Program wherein students participate in experience-based academic courses, at the cost of \$567,800; (2) Venture College Program expansion with focus on entrepreneurial skill development, at the cost of \$381,500; (3) Expand bridge to career programming to equip students with fluency of professional skills and industry awareness, at the cost of \$153,500; (4) Launch new Boise State X Employer Educational Program to expand degree completion options for working students with employer support, at the cost of \$333,100; (5) Development of a new PhD program in computing and computer science, cybersecurity, and computational science and engineering specializations to meet industry needs, at the cost of \$652,900.

Line item 4 provides 7.01 FTP and \$1,667,200 ongoing from the General Fund for occupancy costs to the four institutions. Of this appropriation, \$425,100 is for Boise State University, \$109,100 is for Idaho State University, \$1,049,100 is for the University of Idaho, and \$93,900 is for Lewis-Clark State College.

Line item 5 provides 13.00 FTP and \$1,827,900 ongoing from the General Fund to Idaho State University for the Polytech Initiative and locate a multidisciplinary cluster of faculty and a polytechnic institution in Idaho Falls. Of this appropriation, \$1,388,900 is approved for ongoing personnel costs for nine faculty positions and four support staff. The remaining \$439,000 is a one-time for operating expenses and capital outlay to upgrade distance learning capabilities, equip office and instruction space, and travel.

Line item 6, provides \$200,000 one-time from the General Fund to the University of Idaho for the planning and design of the Center for Education Innovation (CEI) in partnership with the College of Southern Idaho (CSI). This center would be located at the CSI campus in Twin Falls and seek to address issues in early childhood education, elementary, secondary, and postsecondary education.

Line item 7 provides 2.50 FTP and \$715,100 from the General Fund to the University of Idaho to provide an additional year of computer science coursework at North Idaho College (NIC) in Coeur d Alene. Of the appropriation, \$420,100 is for ongoing personnel costs and \$10,000 is for ongoing operational expenditures to support two faculty positions and conversion of a part-time administrative position to full-time. The remaining \$285,000 is for one-time operating expenses and capital outlay to equip faculty office space and the addition of a cybersecurity laboratory.

**DISCLAIMER: This statement of purpose and fiscal note are a mere attachment to this bill and prepared by a proponent of the bill. It is neither intended as an expression of legislative intent nor intended for any use outside of the legislative process, including judicial review (Joint Rule 18).**

## ATTACHMENT 2

Line item 8 provides 2.00 FTP and \$582,000 from the General Fund to the University of Idaho to expand the library research portfolio. Of this amount, \$78,600 is for a social sciences librarian (\$73,800 ongoing PC, \$2,000 ongoing OE, and \$2,800 one-time CO), \$53,400 is for a library technician for circulation (\$48,600 ongoing PC, \$2,000 ongoing OE, and \$2,800 one-time CO), and \$450,000 is one-time for capital outlay to expand circulation resources (i.e. new journal titles, non-standard inflation for existing titles). Additional funds are meant to advance the University's research, teaching, and land-grant missions and augment its current status as Idaho's largest research library.

Line item 9 provides 3.00 FTP and \$255,500 from the General Fund to Lewis-Clark State College to expand the health education programs in the area of kinesiology. Of this appropriation, \$242,000 is ongoing for personnel costs, \$4,500 is ongoing for operation expenditures, and \$9,000 is one-time for capital outlay.

Line item 10 provides 1.00 FTP and \$338,500 from the General Fund to Lewis-Clark State College for a specialized veterans advisor and expansion of the Work Scholars Program. This program provides work opportunities for students with limited incomes and reduces student reliance on loans. Of this appropriation, \$64,100 is ongoing for personnel costs, \$3,000 is one-time for capital outlay, and \$271,400 is ongoing for operating expenditures (for the Work Scholars Program).

Line item 11 provided ongoing funding to backfill projected funding decreases as calculated by the enrollment workload adjustment formula. This funding includes \$993,700 for Idaho State University, \$1,041,400 for the University of Idaho, and \$344,600 for Lewis-Clark State College.

Totals for this bill include 4,559.88 FTP, \$287,053,200 from the General Fund and \$277,905,500 from dedicated funds for a total of \$564,958,700. This results in an increase of 2.7% on the General Fund and 1.5% for all funds. This appropriation includes carryover authority for previously appropriated non-General Fund moneys; exceptions to budget laws allowing transfer of funds among object class codes and programs; and no FTP cap.

The individual General Fund Increases for the institutions are as follows: BSU, 3.5%; ISU, 3.0%; UI, 2.0%; and LCSC, 1.4%.

**DISCLAIMER: This statement of purpose and fiscal note are a mere attachment to this bill and prepared by a proponent of the bill. It is neither intended as an expression of legislative intent nor intended for any use outside of the legislative process, including judicial review (Joint Rule 18).**



## FISCAL NOTE

	FTP	Gen	Ded	Fed	Total
FY 2017 Original Appropriation	4,386.83	279,546,500	277,115,400	0	556,661,900
Reappropriation	0.00	0	159,591,200	0	159,591,200
FY 2017 Total Appropriation	4,386.83	279,546,500	436,706,600	0	716,253,100
Noncognizable Funds and Transfers	88.73	0	15,426,400	0	15,426,400
Expenditure Adjustments	0.00	0	(2,710,300)	0	(2,710,300)
FY 2017 Estimated Expenditures	4,475.56	279,546,500	449,422,700	0	728,969,200
Removal of One-Time Expenditures	0.00	(9,371,700)	(182,700,200)	0	(192,071,900)
Base Adjustments	35.81	0	4,044,600	0	4,044,600
FY 2018 Base	4,511.37	270,174,800	270,767,100	0	540,941,900
Benefit Costs	0.00	1,619,400	1,287,100	0	2,906,500
Inflationary Adjustments	0.00	10,600	1,402,600	0	1,413,200
Replacement Items	0.00	329,400	235,400	0	564,800
Statewide Cost Allocation	0.00	28,400	0	0	28,400
Change in Employee Compensation	0.00	5,947,200	4,546,800	0	10,494,000
Nondiscretionary Adjustments	0.00	(1,265,300)	0	0	(1,265,300)
Endowment Adjustments	0.00	0	(333,500)	0	(333,500)
FY 2018 Program Maintenance	4,511.37	276,844,500	277,905,500	0	554,750,000
1. Outcomes-Based Funding-Systemwide	0.00	0	0	0	0
2. Economic Workforce Development	20.00	2,088,800	0	0	2,088,800
3. Public Service Initiative	0.00	0	0	0	0
4. Occupancy Costs-BSU, ISU, UI, LCSC	7.01	1,677,200	0	0	1,677,200
5. Polytech Initiative	13.00	1,827,900	0	0	1,827,900
6. Center for Education Innovation	0.00	200,000	0	0	200,000
7. Phase 2 of Computer Sci. Partnership	2.50	715,100	0	0	715,100
8. Library Investment	2.00	582,000	0	0	582,000
9. Health Education Expansion	3.00	255,500	0	0	255,500
10. Advising and Career Readiness	1.00	338,500	0	0	338,500
11. Enrollment Workload Adjust					
Restoration	0.00	2,379,700	0	0	2,379,700
Cybersecurity Insurance	0.00	144,000	0	0	144,000
FY 2018 Total	4,559.88	287,053,200	277,905,500	0	564,958,700
Chg from FY 2017 Orig Approp	173.05	7,506,700	790,100	0	8,296,800
% Chg from FY 2017 Orig Approp.	3.9%	2.7%	0.3%		1.5%

**Contact:**

Janet E Jessup  
 Budget and Policy Analysis  
 (208) 334-4730

**DISCLAIMER:** This statement of purpose and fiscal note are a mere attachment to this bill and prepared by a proponent of the bill. It is neither intended as an expression of legislative intent nor intended for any use outside of the legislative process, including judicial review (Joint Rule 18).

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LEGISLATURE OF THE STATE OF IDAHO  
 Sixty-fourth Legislature First Regular Session - 2017

IN THE SENATE

SENATE BILL NO. 1152

BY FINANCE COMMITTEE

AN ACT

APPROPRIATING MONEYS TO THE STATE BOARD OF EDUCATION AND THE BOARD OF REGENTS OF THE UNIVERSITY OF IDAHO FOR COLLEGE AND UNIVERSITIES AND THE OFFICE OF THE STATE BOARD OF EDUCATION FOR FISCAL YEAR 2018; PROVIDING NON-GENERAL FUND REAPPROPRIATION; PROVIDING LEGISLATIVE INTENT FOR SYSTEMWIDE NEEDS; PROVIDING LEGISLATIVE INTENT FOR REPORTING RELATED TO THE COMPLETE COLLEGE IDAHO INITIATIVE; AND EXEMPTING APPROPRIATION OBJECT AND PROGRAM TRANSFER LIMITATIONS.

Be It Enacted by the Legislature of the State of Idaho:

SECTION 1. There is hereby appropriated to the State Board of Education and the Board of Regents of the University of Idaho for College and Universities, and the Office of the State Board of Education, the following amounts to be expended according to the designated programs and expense classes, from the listed funds for the period July 1, 2017, through June 30, 2018:

	FOR	FOR	FOR	FOR	
	PERSONNEL	OPERATING	CAPITAL	TRUSTEE AND	
	COSTS	EXPENDITURES	OUTLAY	BENEFIT	TOTAL
				PAYMENTS	
I. BOISE STATE UNIVERSITY:					
FROM:					
General					
Fund	\$83,470,900	\$8,983,600	\$3,757,800		\$96,212,300
Unrestricted					
Fund	<u>80,951,900</u>	<u>17,589,100</u>	<u>0</u>		<u>98,541,000</u>
TOTAL	\$164,422,800	\$26,572,700	\$3,757,800		\$194,753,300
II. IDAHO STATE UNIVERSITY:					
FROM:					
General					
Fund	\$75,905,300	\$661,000	\$484,000		\$77,050,300
Charitable Institutions Endowment Income					
Fund	1,478,400				1,478,400
Normal School Endowment Income					
Fund	2,131,200				2,131,200

	FOR	FOR	FOR	FOR	TOTAL	
	PERSONNEL	OPERATING	CAPITAL	TRUSTEE AND		
	COSTS	EXPENDITURES	OUTLAY	BENEFIT		
				PAYMENTS		
5	Unrestricted					
6	Fund	<u>39,055,900</u>	<u>26,762,500</u>	<u>5,219,400</u>	<u>71,037,800</u>	
7	TOTAL	\$118,570,800	\$27,423,500	\$5,703,400	\$151,697,700	
8	III. UNIVERSITY OF IDAHO:					
9	FROM:					
10	General					
11	Fund	\$79,656,600	\$7,691,100	\$3,633,400	\$450,000	\$91,431,100
12	Agricultural College Endowment Income					
13	Fund	923,500	65,400	358,700		1,347,600
14	Scientific School Endowment Income					
15	Fund	3,407,700		1,301,100		4,708,800
16	University Endowment Income					
17	Fund		3,005,900	1,036,900		4,042,800
18	Unrestricted					
19	Fund	<u>47,937,200</u>	<u>27,878,700</u>	<u>639,300</u>	<u>0</u>	<u>76,455,200</u>
20	TOTAL	\$131,925,000	\$38,641,100	\$6,969,400	\$450,000	\$177,985,500
21	IV. LEWIS-CLARK STATE COLLEGE:					
22	FROM:					
23	General					
24	Fund	\$14,737,300	\$1,781,000	\$775,400		\$17,293,700
25	Normal School Endowment Income					
26	Fund		2,131,200			2,131,200
27	Unrestricted					
28	Fund	<u>13,418,300</u>	<u>2,593,200</u>	<u>20,000</u>		<u>16,031,500</u>
29	TOTAL	\$28,155,600	\$6,505,400	\$795,400		\$35,456,400
30	V. SYSTEMWIDE PROGRAMS:					
31	FROM:					
32	General					
33	Fund		\$907,800		\$4,158,000	\$5,065,800
34	GRAND TOTAL	\$443,074,200	\$100,050,500	\$17,226,000	\$4,608,000	\$564,958,700

35 SECTION 2. NON-GENERAL FUND REAPPROPRIATION AUTHORITY. There is hereby  
36 reappropriated to the State Board of Education and the Board of Regents of



1 the University of Idaho for College and Universities any unexpended and un-  
2 encumbered balances of moneys categorized as dedicated funds appropriated  
3 or reappropriated for fiscal year 2017, to be used for nonrecurring expendi-  
4 tures, for the period July 1, 2017, through June 30, 2018.

5 SECTION 3. LEGISLATIVE INTENT. It is the intent of the Legislature that  
6 of the amount appropriated in Section 1, Subsection V., of this act, the fol-  
7 lowing amounts may be used as follows: (1) An amount not to exceed \$902,600  
8 may be used by the Office of the State Board of Education for systemwide needs  
9 that benefit all of the four-year institutions including, but not limited  
10 to, projects to promote accountability and information transfer throughout  
11 the higher education system; and (2) An amount of approximately \$1,960,500  
12 may be used for the mission and goals of the Higher Education Research Coun-  
13 cil as outlined in State Board of Education Policy III.W., which includes  
14 awards for infrastructure, matching grants, and competitive grants through  
15 the Idaho Incubation Fund program.

16 SECTION 4. LEGISLATIVE INTENT. It is the intent of the Legislature  
17 that the President of the State Board of Education shall provide a written  
18 report to the Joint Finance-Appropriations Committee, the Senate Educa-  
19 tion Committee, and the House Education Committee on the implementation and  
20 effectiveness of the funding appropriated for the Complete College Idaho  
21 initiative. Reporting shall address appropriations in fiscal years 2015,  
22 2016, and 2017. The board may use the measures of effectiveness submitted  
23 by the institutions in their budget requests or develop other measures as  
24 necessary to show the impact of funding for personnel and program on their  
25 comparative outcomes regarding course completion, degree attainment, and  
26 job placement. Reporting to the Legislature should occur no later than Feb-  
27 ruary 1, 2018, and shall be formatted in such a manner that allows consistent  
28 comparison within and between institutions.

29 SECTION 5. EXEMPTIONS FROM OBJECT AND PROGRAM TRANSFER LIMITATIONS.  
30 For fiscal year 2018, the State Board of Education and the Board of Regents  
31 of the University of Idaho for College and Universities is hereby exempted  
32 from the provisions of Section 67-3511(1), (2) and (3), Idaho Code, allow-  
33 ing unlimited transfers between object codes and between programs, for all  
34 moneys appropriated to it for the period July 1, 2017, through June 30, 2018.  
35 Legislative appropriations shall not be transferred from one fund to another  
36 fund unless expressly approved by the Legislature.

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**BUSINESS AFFAIRS AND HUMAN RESOURCES**  
**APRIL 20, 2017**

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**SUBJECT**

Community Colleges FY 2018 Appropriation Allocation

**APPLICABLE STATUTE, RULE, OR POLICY**

House Bill 294 (2017)

**BACKGROUND/DISCUSSION**

The Legislature makes an annual appropriation to the State Board of Education for community college support. The allocation to the colleges includes the current year (FY 2017) base allocation plus each college's respective share in any annual budget adjustments according to the normal budgeting process.

**IMPACT**

This action allocates the FY 2018 Community Colleges appropriation to the institutions. The funds allocated along with revenue generated from other non-appropriated sources will establish the operating budgets. The FY 2018 Allocation is shown on Tab 4c, page 3.

The FY 2018 appropriation includes ongoing base funding for health insurance increases, 3% ongoing Change in Employee Compensation (CEC) increases, and line item enhancements at College of Southern Idaho for Bridge-to-Success summer program and Eastern Idaho Math/English instruction; North Idaho College for Title IX Coordinator and Assistive Technology Coordinator; and College of Western Idaho for Student Success and Balance Funding.

**ATTACHMENTS**

Attachment 1 – FY 2018 CC Appropriations Allocation	Page 3
Attachment 2 – Statement of Purpose/Fiscal Note	Page 5
Attachment 3 – Appropriation Bill (H294)	Page 7

**STAFF COMMENTS AND RECOMMENDATIONS**

Staff recommends approval of the FY 2018 Community College allocation.

**BOARD ACTION**

I move to approve the allocation of the FY 2018 appropriation for the College of Southern Idaho, College of Western Idaho and North Idaho College, as presented on Tab 4c, Page 3.

Moved by \_\_\_\_\_ Seconded by \_\_\_\_\_ Carried Yes \_\_\_\_\_ No \_\_\_\_\_

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**Idaho Community Colleges**  
**FY 2018 Appropriation Allocation - H 294**  
**1-Mar-17**

<b>General Educ Approp: JFAC Action</b>		<b>CSI</b>	<b>NIC</b>	<b>CWI</b>	<b>Total</b>
1	FY 17 Total Appropriation				
2	General Funds	13,465,800	11,785,000	11,668,200	36,919,000
3	Dedicated Funds	200,000	200,000	200,000	600,000
4	Total FY17 Total Appropriation	<u>13,665,800</u>	<u>11,985,000</u>	<u>11,868,200</u>	<u>37,519,000</u>
5					
6	FY 18 Base				-
7	General Funds	13,465,800	11,782,000	11,668,200	36,916,000
8	Dedicated Funds	200,000	200,000	200,000	600,000
9	Total FY 18 Base	<u>13,665,800</u>	<u>11,982,000</u>	<u>11,868,200</u>	<u>37,516,000</u>
10					-
11	FY 18 Maintenance Items				
12	Benefit Cost Increases	123,800	121,100	78,500	323,400
13	Inflationary Cost Increases	-	-	-	-
14	Replacement Items	-	-	-	-
15	CEC: 3% ongoing	250,200	274,500	193,800	718,500
16	Enrollment Workload Adjustment	(434,200)	(416,200)	(443,200)	(1,293,600)
17		<u>(60,200)</u>	<u>(20,600)</u>	<u>(170,900)</u>	<u>(251,700)</u>
18	FY 18 Maintenance				-
19	General Funds	13,405,600	11,761,400	11,497,300	36,664,300
20	Dedicated Funds	200,000	200,000	200,000	600,000
21	Total FY 18 Maintenance	<u>13,605,600</u>	<u>11,961,400</u>	<u>11,697,300</u>	<u>37,264,300</u>
22					-
23	FY 18 Line Items				-
24	Bridge-to-Success Summer Program	133,800			133,800
25	Eastern Idaho Math/English Instruct.	132,200	-		132,200
26	Title IX Coordinator		90,400		90,400
27	Assistive Technology Coordinator		457,100		457,100
28	Student Success			279,500	279,500
29	Balance Funding			350,000	350,000
30	Enrollment Workload Restoration	434,200	416,200	443,200	1,293,600
31	Total Line Items	<u>700,200</u>	<u>963,700</u>	<u>1,072,700</u>	<u>2,736,600</u>
32					-
33	FY 18 Total Appropriation				-
34	General Funds	14,105,800	12,725,100	12,570,000	39,400,900
35	Dedicated Funds	200,000	200,000	200,000	600,000
36	FY 18 Total Appropriation	<u>14,305,800</u>	<u>12,925,100</u>	<u>12,770,000</u>	<u>40,000,900</u>
37					
38					
39	GF Change from FY 17 Total	4.8%	8.0%	7.7%	6.7%
40					
41	GF Appropriation Allocation				
42	PC	11,631,200	10,916,200	8,477,900	31,025,300
43	OE	1,867,200	1,803,900	3,955,400	7,626,500
44	CO	607,400	5,000	8,000	620,400
45	TB				0
46	Total General Funds	<u>14,105,800</u>	<u>12,725,100</u>	<u>12,441,300</u>	<u>39,272,200</u>

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## STATEMENT OF PURPOSE

## RS25538

This is the FY 2018 appropriation to Community Colleges in the amount of \$40,000,900, including \$39,400,900 from the General Fund and \$600,000 from dedicated funds. This appropriation provides for increased cost of benefits, the equivalent of a 3% ongoing change in employee compensation, and a nondiscretionary adjustment for enrollment workload decreases. This appropriation includes seven line items.

Line item 3 provides funding to the College of Southern Idaho (CSI) for the Bridge to Success Summer Program.

Line item 4 provides funding to CSI to hire two dedicated faculty members for the CSI Outreach Center in Idaho Falls.

Line item 7 provides funding to North Idaho College (NIC) to hire a Title IX Coordinator to lead compliance efforts and conduct training.

Line item 8 provides funding to NIC for an assistive technology coordinator and make associated upgrades.

Line item 9 provides funding to the College of Western Idaho (CWI) to hire staff to advise existing students and provide outreach to special student populations.

Line item 10 provides funding to CWI to aid in average weighted credit equity with other community colleges.

Line item 12 provides funding to backfill the current and projected decreases in enrollment at the three community colleges. This funding would provide \$434,200 to CSI, \$443,200 to CWI, and \$416,200 to NIC.

This appropriation results in an 6.7% increase from the General Fund and 6.6% from all funds.

The supplemental appropriation, in the amount of \$1,200,000 one-time from the General Fund, is provided to the Community Colleges for the remainder of fiscal year 2017. The funding will enable the College of Southern Idaho to purchase Pristine Springs near Twin Falls from the Idaho Department of Water Resources. CSI utilizes the geothermal aquifer at Pristine Springs as a source of heat for buildings on the community college campus. The total purchase price for Pristine Springs is \$2,400,000. CSI will match the appropriation, and upon payment, the Department of Water Resources will transfer the total purchase price (\$2,400,000) to the General Fund.

**DISCLAIMER: This statement of purpose and fiscal note are a mere attachment to this bill and prepared by a proponent of the bill. It is neither intended as an expression of legislative intent nor intended for any use outside of the legislative process, including judicial review (Joint Rule 18).**

**ATTACHMENT 2**

	FTP	Gen	Ded	Fed	Total
FY 2017 Original Appropriation	0.00	36,919,000	600,000	0	37,519,000
1. Acquisition of Pristine Springs	0.00	1,200,000	0	0	1,200,000
FY 2017 Total Appropriation	0.00	38,119,000	600,000	0	38,719,000
Noncognizable Funds and Transfers	0.00	(70,000)	0	0	(70,000)
FY 2017 Estimated Expenditures	0.00	38,049,000	600,000	0	38,649,000
Removal of One-Time Expenditures	0.00	(1,203,000)	0	0	(1,203,000)
Base Adjustments	0.00	70,000	0	0	70,000
FY 2018 Base	0.00	36,916,000	600,000	0	37,516,000
Benefit Costs	0.00	323,400	0	0	323,400
Inflationary Adjustments	0.00	0	0	0	0
Replacement Items	0.00	0	0	0	0
Change in Employee Compensation	0.00	718,500	0	0	718,500
Nondiscretionary Adjustments	0.00	(1,293,600)	0	0	(1,293,600)
FY 2018 Program Maintenance	0.00	36,664,300	600,000	0	37,264,300
1. Positions and Fund Shifting	0.00	0	0	0	0
2. Center for Education Innovation	0.00	0	0	0	0
3. Summer Bridge to Success	0.00	133,800	0	0	133,800
4. Eastern Idaho Math/English Instructors	0.00	132,200	0	0	132,200
5. Dual Credit Academy Instructors	0.00	0	0	0	0
6. Summer Completion Initiative	0.00	0	0	0	0
7. Title IX Coordinator	0.00	90,400	0	0	90,400
8. Assistive Technology Coordinator	0.00	457,100	0	0	457,100
9. New Positions for Student Success	0.00	279,500	0	0	279,500
10. Balance Funding	0.00	350,000	0	0	350,000
12. Enrollment Workload Adjust. Restoration	0.00	1,293,600	0	0	1,293,600
FY 2018 Total	0.00	39,400,900	600,000	0	40,000,900
Chg from FY 2017 Orig Approp	0.00	2,481,900	0	0	2,481,900
% Chg from FY 2017 Orig Approp.		6.7%	0.0%		6.6%

**Contact:**

Janet E Jessup  
 Budget and Policy Analysis  
 (208) 334-4730

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LEGISLATURE OF THE STATE OF IDAHO  
 Sixty-fourth Legislature First Regular Session - 2017

IN THE HOUSE OF REPRESENTATIVES

HOUSE BILL NO. 294

BY APPROPRIATIONS COMMITTEE

AN ACT

1 APPROPRIATING MONEYS TO THE STATE BOARD OF EDUCATION FOR COMMUNITY COLLEGES  
 2 FOR 2018; EXEMPTING APPROPRIATION OBJECT AND PROGRAM TRANSFER LIM-  
 3 ITATIONS; PROVIDING LEGISLATIVE INTENT FOR REPORTING RELATED TO THE  
 4 COMPLETE COLLEGE IDAHO INITIATIVE; APPROPRIATING ADDITIONAL MONEYS TO  
 5 COMMUNITY COLLEGES FOR FISCAL YEAR 2017; AND DECLARING AN EMERGENCY.  
 6

7 Be It Enacted by the Legislature of the State of Idaho:

8 SECTION 1. There is hereby appropriated to the State Board of Educa-  
 9 tion for Community Colleges, the following amounts to be expended according  
 10 to the designated programs and expense classes, from the listed funds for the  
 11 period July 1, 2017, through June 30, 2018:

	FOR	FOR	FOR	
	PERSONNEL	OPERATING	CAPITAL	
	COSTS	EXPENDITURES	OUTLAY	TOTAL
15 I. COLLEGE OF SOUTHERN IDAHO:				
16 FROM:				
17 General				
18 Fund	\$11,631,200	\$1,867,200	\$607,400	\$14,105,800
19 Community College				
20 Fund	<u>155,100</u>	<u>26,900</u>	<u>18,000</u>	<u>200,000</u>
21 TOTAL	\$11,786,300	\$1,894,100	\$625,400	\$14,305,800
22 II. COLLEGE OF WESTERN IDAHO:				
23 FROM:				
24 General				
25 Fund	\$8,606,600	\$3,955,400	\$8,000	\$12,570,000
26 Community College				
27 Fund	<u>0</u>	<u>200,000</u>	<u>0</u>	<u>200,000</u>
28 TOTAL	\$8,606,600	\$4,155,400	\$8,000	\$12,770,000
29 III. NORTH IDAHO COLLEGE:				
30 FROM:				
31 General				
32 Fund	\$10,916,200	\$1,803,900	\$5,000	\$12,725,100

	FOR PERSONNEL COSTS	FOR OPERATING EXPENDITURES	FOR CAPITAL OUTLAY	TOTAL
Community College				
Fund	<u>122,200</u>	<u>52,800</u>	<u>25,000</u>	<u>200,000</u>
TOTAL	\$11,038,400	\$1,856,700	\$30,000	\$12,925,100
GRAND TOTAL	\$31,431,300	\$7,906,200	\$663,400	\$40,000,900

SECTION 2. EXEMPTIONS FROM OBJECT AND PROGRAM TRANSFER LIMITATIONS. For fiscal year 2018, the State Board of Education for Community Colleges is hereby exempted from the provisions of Section 67-3511(1), (2) and (3), Idaho Code, allowing unlimited transfers between object codes and between programs, for all moneys appropriated to it for the period July 1, 2017, through June 30, 2018. Legislative appropriations shall not be transferred from one fund to another fund unless expressly approved by the Legislature.

SECTION 3. LEGISLATIVE INTENT. It is the intent of the Legislature that the President of the State Board of Education shall provide a written report to the Joint Finance-Appropriations Committee, the Senate Education Committee, and the House Education Committee on the implementation and effectiveness of the funding appropriated for the Complete College Idaho initiative. Reporting shall address appropriations in fiscal years 2015, 2016, and 2017. The board may use the measures of effectiveness submitted by the institutions in their budget requests or develop other measures as necessary to show the impact of funding for personnel and programs on their comparative outcomes regarding course completion, degree attainment and job placement. Reporting to the Legislature should occur no later than February 1, 2018, and shall be formatted in such a manner that allows consistent comparison within and between institutions.

SECTION 4. In addition to the appropriation made in Section 1, Chapter 331, Laws of 2016, and any other appropriation provided for by law, there is hereby appropriated \$1,200,000 from the General Fund to the State Board of Education for the College of Southern Idaho, to be expended for operating costs, for the period July 1, 2016, through June 30, 2017.

SECTION 5. An emergency existing therefor, which emergency is hereby declared to exist, the provisions of Section 4 of this act shall be in full force and effect on and after passage and approval.

**BUSINESS AFFAIRS AND HUMAN RESOURCES**  
**APRIL 20, 2017**

---

**SUBJECT**

Allocation of the State Division of Career Technical Education Appropriation.

**APPLICABLE STATUTE, RULE, OR POLICY**

House Bill 295 (2017)

**BACKGROUND**

The Idaho Legislature appropriates funds for career technical education to the Division of Career Technical Education (CTE) in five designated programs: State Leadership and Technical Assistance, General Programs, Postsecondary Programs, Dedicated Programs, and Related Services. CTE requests approval of the allocation of the FY2018 appropriated funds detailed in Attachment 1.

**DISCUSSION**

The allocation is based on the increased level of funding in House Bill No. 295 and the provisions of the State Plan for Career Technical Education. The State General Fund reflects an overall increase of 4.0% from the original FY2017 appropriation. The Legislature funded a 3% change in employee compensation; employee benefit increases; maintenance level decreases in the statewide cost allocation for CTE and Eastern Idaho Technical College (EITC); \$1.8 million in funds for capacity expansion of 11 specific programs at the 6 postsecondary technical colleges; \$405,900 in one-time funding to purchase replacement equipment at the 6 technical colleges and CTE; \$64,600 in ongoing funding to add a human resource position at EITC; \$250,000 ongoing from the General Fund to expand adult basic education (ABE); an additional position and \$449,600 from the General Fund to expand incentive funding opportunities to all secondary programs; \$128,000 to align courses from secondary to postsecondary and \$68,000 to design online courses through Idaho Digital Learning Academy; \$375,000 to fund a 5% increase in added cost funding for secondary CTE programs.

**IMPACT**

Establish FY2018 operating budget.

**ATTACHMENTS**

Attachment 1 – FY 2018 Allocation of Career Technical Education	Page 3
Attachment 2 – Statement of Purpose/Fiscal Note	Page 5
Attachment 3 – Appropriation Bill (H295)	Page 7

**STAFF COMMENTS AND RECOMMENDATIONS**

Staff recommends approval of the allocation of the FY 2018 appropriation for CTE as detailed in Attachment 1.

**BUSINESS AFFAIRS AND HUMAN RESOURCES**  
**APRIL 20, 2017**

---

**BOARD ACTION**

I move to approve the request from the Division of Career Technical Education for the allocation of the FY 2018 appropriation detailed in Attachment 1.

Moved by \_\_\_\_\_ Seconded by \_\_\_\_\_ Yes \_\_\_\_ No \_\_\_\_

IDAHO CAREER & TECHNICAL EDUCATION			
Allocation of Idaho Career & Technical Education			
FY 2018 Appropriation			
	FY18	FY17	
	Allocation	Allocation	
1			
2			
3			
4			
5			
6	Program 01 (State Leadership and Technical Assistance)		
7			
8	By Standard Class:		
9	Personnel Costs	\$ 2,695,900	\$ 2,314,600
10	Operating Expenses	463,900	375,200
11	Capital Outlay	23,100	11,700
12	Totals	\$ 3,182,900	\$ 2,701,500
13			
14	By Source of Revenue:		
15	General Funds	\$ 2,724,300	\$ 2,230,300
16	One-time General Funds	98,400	111,400
17	Federal Funds	360,200	350,800
18	One-time Federal Funds	-	9,000.00
19	Totals	\$ 3,182,900	\$ 2,701,500
20			
21	Program 02 (General Programs)		
22			
23	By Major Program Area:		
24	Secondary Added Cost	\$ 7,875,000	\$ 7,500,000
25	Professional-Technical Schools	4,825,800	4,825,789
26	General Programs Leadership	1,534,800	1,658,411
27	Carl D. Perkins Federal Grant	6,221,900	6,210,600
28	Hazardous Materials Training	67,800	67,800
29	Skillstack Maintenance	15,000	0
30	Totals	\$ 20,525,300	\$ 20,262,600
31			
32	By Source of Revenue		
33	General Funds	\$ 14,024,600	\$ 13,984,200
34	One-time General Funds	196,000	-
35	Federal Funds	6,221,900	6,204,500
36	One-time Federal Funds	0	6,100
37	Dedicated Funds	67,800	67,800
38	Miscellaneous Revenue	15,000	0
39	Totals	\$ 20,525,300	\$ 20,262,600
40			
41	Program 03 (Postsecondary Programs)		
42			
43	By Technical College:		
44	College of Southern Idaho	\$ 7,127,900	\$ 6,942,875
45	College of Western Idaho	9,138,400	8,082,323
46	Eastern Idaho Technical College	7,796,700	7,508,678
47	Idaho State University	12,104,000	11,859,935
48	Lewis-Clark State College	4,888,400	4,964,056
49	North Idaho College	5,456,500	5,106,033
50	Totals	\$ 46,511,900	\$ 44,463,900
51			
52	By Source of Revenue:		
53	General Funds	\$ 45,495,500	\$ 42,809,000
54	One-time General Funds	1,016,400	1,654,900
55	Totals	\$ 46,511,900	\$ 44,463,900

		FY18	FY17
		Allocation	Allocation
56	IDAHO CAREER & TECHNICAL EDUCATION		
57	Allocation of Idaho Career & Technical Education		
58	FY 2018 Appropriation		
59			
60			
61	Program 04 (Dedicated Programs)		
62			
63	By Major Program:		
64	Agriculture and Natural Resources	325,000	650,000
65	Incentive Based Funding	300,000	-
66	Displaced Homemaker Program	170,000	170,000
67	Totals	\$ 795,000	\$ 820,000
68			
69	By Source of Revenue:		
70	General Funds	\$ 625,000	\$ 325,000
71	Dedicated Funds	170,000	495,000
72	Totals	\$ 795,000	\$ 820,000
73			
74	Program 05 (Related Services)		
75			
76	By Standard Class:		
77	Personnel Costs	\$ 151,400	\$ 391,300
78	Operating Expenses	323,500	195,000
79	Trustee Payments	3,264,900	3,014,900
80	Totals	\$ 3,739,800	\$ 3,601,200
81			
82	By Source of Revenue:		
83	General Funds	\$ 1,191,800	\$ 938,500
84	One-time General Funds	0	4,300
85	Federal Funds	2,244,100	2,242,000
86	One-time Federal Funds	0	1,300
87	Dedicated Funds	0	140,000
88	Miscellaneous Revenue	300,000	267,400
89	One-time Miscellaneous Revenue	3,900	7,700
90	Totals	\$ 3,739,800	\$ 3,601,200
91			
92	By Source of Revenue:		
93	General Funds	\$ 64,061,200	\$ 60,287,000
94	One-time General Funds	1,310,800	1,770,600
95	Federal Funds	8,826,200	8,797,300
96	One-time Federal Funds	0	16,400
97	Dedicated Funds	237,800	702,800
98	Miscellaneous Revenue	315,000	267,400
99	One-time Miscellaneous Revenue	3,900	7,700
100	Totals	\$ 74,754,900	\$ 71,849,200

## STATEMENT OF PURPOSE

## RS25542

This is the FY 2018 appropriation to the Division of Career-Technical Education in the amount of \$74,754,900. This appropriation includes an increase for benefit costs of \$478,800, a decrease for statewide cost allocation of \$6,600, and an ongoing 3% merit-based increase in employee compensation for permanent employees to be distributed at the discretion of the agency director and institutional presidents. This appropriation also includes \$405,900 one-time from the General Fund for replacement items at the six technical colleges and in the state leadership and technical assistance program. There are eleven line items in this appropriation.

Line item 1 provides 14.50 FTP and \$1,878,200 ongoing from the General Fund to expand postsecondary capacity at eleven postsecondary CTE programs throughout the state and alleviate program waiting lists. Line item 3 provides 1.00 FTP and \$64,600 ongoing from the General Fund to add a human resource position at Eastern Idaho Technical College responsible for developing policy, procedures, trainings, and other HR related matters. Line item 4 provides \$250,000 ongoing from the General Fund to expand adult basic education (ABE). Line item 5 provides 1.00 FTP and \$449,600 from the General Fund to expand the Secondary Incentive Program and increase course offerings. Line item 6 provides \$196,000 one-time from the General Fund to align secondary and postsecondary programs and create new online course options for students. Line item 7 provides a transfer of 3.00 FTP and \$411,800 ongoing from dedicated funds from the Related Services Program to the Division of Human Resources (DHR). Line item 8 provides \$15,000 ongoing from the Miscellaneous Revenue Fund to enable the division to spend annual user fees collected from schools to pay for the maintenance of the Skillstack(R) Micro-Certification. Line item 9 provides \$300,000 ongoing from the Miscellaneous Revenue Fund for operating expenditures so that the division can use registration fees collected for a CTE professional development conference held each summer. Line item 11 provides \$375,000 ongoing from the General Fund for professional development, additional equipment and supplies, and extended CTE contracts. Line item 12 provides for a decrease of \$325,000 ongoing to reduce the appropriation from the Quality Program Standards Incentive Fund and Agriculture and Natural Resources Education Program Fund. Line item 13 provides for the transfer of 3.0 FTP and \$334,600 ongoing from General Programs to State Leadership and Technical Assistance Program. This line item does not appropriate any new moneys, but transfers moneys already in the budget.

Totals for this appropriation include 582.96 FTP, \$65,372,000 from the General Fund, \$556,700 of dedicated funds, and \$8,826,200 of federal funds, for a total of \$74,754,900. This appropriation includes carry over authority of dedicated and federal funds and provides exceptions to budget laws that will allow transfers between object codes for the Post-Secondary Program only. Consistent with other higher education budgets, there is no FTP cap.

**DISCLAIMER: This statement of purpose and fiscal note are a mere attachment to this bill and prepared by a proponent of the bill. It is neither intended as an expression of legislative intent nor intended for any use outside of the legislative process, including judicial review (Joint Rule 18).**



## FISCAL NOTE

	FTP	Gen	Ded	Fed	Total
FY 2017 Original Appropriation	563.46	62,057,600	977,900	8,813,700	71,849,200
Reappropriation	0.00	0	841,200	5,469,200	6,310,400
1. Addl Career and Tech Student Org Mgrs	4.00	0	0	0	0
2. CTE Teacher Education	2.00	0	0	0	0
3. Transfer Funds to State Leadership	0.00	0	0	0	0
FY 2017 Total Appropriation	569.46	62,057,600	1,819,100	14,282,900	78,159,600
Noncognizable Funds and Transfers	(4.10)	0	0	0	0
FY 2017 Estimated Expenditures	565.36	62,057,600	1,819,100	14,282,900	78,159,600
Removal of One-Time Expenditures	0.00	(1,770,600)	(848,900)	(5,485,600)	(8,105,100)
Base Adjustments	4.10	0	0	0	0
FY 2018 Base	569.46	60,287,000	970,200	8,797,300	70,054,500
Benefit Costs	0.00	466,500	2,600	9,700	478,800
Replacement Items	0.00	405,900	0	0	405,900
Statewide Cost Allocation	0.00	(6,600)	0	0	(6,600)
Annualizations	(2.00)	0	0	0	0
Change in Employee Compensation	0.00	1,001,400	5,700	19,200	1,026,300
FY 2018 Program Maintenance	567.46	62,154,200	978,500	8,826,200	71,958,900
1. Postsecondary Capacity Expansion	14.50	1,878,200	0	0	1,878,200
2. Industry Partner	0.00	0	0	0	0
3. EITC Human Resource Position	1.00	64,600	0	0	64,600
4. Expand Adult Basic Education	0.00	250,000	0	0	250,000
5. Expand Secondary Education Incentive Prgm	1.00	449,600	0	0	449,600
6. Alignment and Creation of Courses	0.00	196,000	0	0	196,000
7. Transfer CPM and Health Matters to DHR	(3.00)	0	(411,800)	0	(411,800)
8. Skillstack Micro-Certification	0.00	0	15,000	0	15,000
9. Professional Development Conference	0.00	0	300,000	0	300,000
10. EITC Finance Director	0.00	0	0	0	0
11. Added Cost Funding Increase	0.00	375,000	0	0	375,000
12. Remove Fixed Appropriation for Ded Funds	0.00	0	(325,000)	0	(325,000)
13. Transfer for Staff Centralization	2.00	0	0	0	0
Cybersecurity Insurance	0.00	4,400	0	0	4,400
Budget Law Exceptions	0.00	0	0	0	0
FY 2018 Total	582.96	65,372,000	556,700	8,826,200	74,754,900
Chg from FY 2017 Orig Approp	19.50	3,314,400	(421,200)	12,500	2,905,700
% Chg from FY 2017 Orig Approp.	3.5%	5.3%	(43.1%)	0.1%	4.0%

**Contact:**

Janet E Jessup  
Budget and Policy Analysis  
(208) 334-4730

**DISCLAIMER:** This statement of purpose and fiscal note are a mere attachment to this bill and prepared by a proponent of the bill. It is neither intended as an expression of legislative intent nor intended for any use outside of the legislative process, including judicial review (Joint Rule 18).



LEGISLATURE OF THE STATE OF IDAHO  
Sixty-fourth Legislature First Regular Session - 2017

## IN THE HOUSE OF REPRESENTATIVES

## HOUSE BILL NO. 295

## BY APPROPRIATIONS COMMITTEE

## AN ACT

APPROPRIATING MONEYS TO THE DIVISION OF CAREER TECHNICAL EDUCATION FOR FISCAL YEAR 2018; EXEMPTING APPROPRIATION OBJECT TRANSFER LIMITATIONS FOR THE POSTSECONDARY PROGRAM; AND PROVIDING NON-GENERAL FUND REAPPROPRIATION FOR FISCAL YEAR 2017.

Be It Enacted by the Legislature of the State of Idaho:

SECTION 1. There is hereby appropriated to the Division of Career Technical Education, the following amounts to be expended according to the designated programs and expense classes, from the listed funds for the period July 1, 2017, through June 30, 2018:

	FOR PERSONNEL COSTS	FOR OPERATING EXPENDITURES	FOR CAPITAL OUTLAY	FOR TRUSTEE AND BENEFIT PAYMENTS	TOTAL
I. STATE LEADERSHIP & TECHNICAL ASSISTANCE:					
FROM:					
General					
Fund	\$2,391,700	\$407,900	\$23,100		\$2,822,700
Federal Grant					
Fund	<u>304,200</u>	<u>56,000</u>	<u>0</u>		<u>360,200</u>
TOTAL	\$2,695,900	\$463,900	\$23,100		\$3,182,900
II. GENERAL PROGRAMS:					
FROM:					
General					
Fund		\$396,000		\$13,824,600	\$14,220,600
Hazardous Materials/Waste Enforcement					
Fund				67,800	67,800
Miscellaneous Revenue					
Fund				15,000	15,000
Federal Grant					
Fund	<u>\$452,900</u>	<u>74,800</u>		<u>5,694,200</u>	<u>6,221,900</u>
TOTAL	\$452,900	\$470,800		\$19,601,600	\$20,525,300

	FOR	FOR	FOR	FOR		
	PERSONNEL	OPERATING	CAPITAL	TRUSTEE AND		
	COSTS	EXPENDITURES	OUTLAY	BENEFIT	TOTAL	
				PAYMENTS		
5	III. POSTSECONDARY PROGRAMS:					
6	FROM:					
7	General					
8	Fund	\$41,688,500	\$3,567,400	\$1,015,500	\$240,500	\$46,511,900
9	IV. DEDICATED PROGRAMS:					
10	FROM:					
11	General					
12	Fund			\$625,000	\$625,000	
13	Displaced Homemaker					
14	Fund			<u>170,000</u>	<u>170,000</u>	
15	TOTAL			\$795,000	\$795,000	
16	V. RELATED SERVICES:					
17	FROM:					
18	General					
19	Fund	\$95,200	\$5,700	\$1,090,900	\$1,191,800	
20	Miscellaneous Revenue					
21	Fund	3,900	300,000		303,900	
22	Federal Grant					
23	Fund	<u>52,300</u>	<u>17,800</u>	<u>2,174,000</u>	<u>2,244,100</u>	
24	TOTAL	\$151,400	\$323,500	\$3,264,900	\$3,739,800	
25	GRAND TOTAL	\$44,988,700	\$4,825,600	\$1,038,600	\$23,902,000	\$74,754,900

26 SECTION 2. EXEMPTIONS FROM OBJECT TRANSFER LIMITATIONS. For fiscal  
 27 year 2018, the Division of Career Technical Education, Postsecondary Pro-  
 28 gram, is hereby exempted from the provisions of Section 67-3511(1) and (3),  
 29 Idaho Code, allowing unlimited transfers between object codes, for all mon-  
 30 eys appropriated to it for the period July 1, 2017, through June 30, 2018.  
 31 Legislative appropriations shall not be transferred from one fund to another  
 32 fund unless expressly approved by the Legislature.

33 SECTION 3. NON-GENERAL FUND REAPPROPRIATION AUTHORITY. There is hereby  
 34 reappropriated to the Division of Career Technical Education, any unex-  
 35 pended and unencumbered balances of moneys categorized as dedicated funds  
 36 and federal funds as appropriated for fiscal year 2017, to be used for nonre-  
 37 curring expenditures, for the period July 1, 2017, through June 30, 2018.

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**SUBJECT**

FY 2019 Budget Development Process (Line Items)

**APPLICABLE STATUTE, RULE, OR POLICY**

Idaho State Board of Education Governing Policies & Procedures Policy, Section V.B.1.

**BACKGROUND/ DISCUSSION**

Idaho State Board of Education (Board)-approved budget requests for FY 2019 must be submitted to the executive and legislative branches [Division of Financial Management (DFM) and Legislative Services Office (LSO)] on September 1, 2017. To meet this annual deadline, the Board has established a process for developing institutional requests. The first step is the approval of line item request guidelines at the April Board meeting. The institutions then use these guidelines to develop line item requests which are evaluated by the Board at its June meeting. The final budget request, including line items and maintenance of current operations (MCO) items, is then approved in August. As indicated, budget requests are developed in two parts as directed by the DFM/LSO Budget Development Manual: MCO items and line items. The Board's budget request guidelines focus on the development of line item requests, but additional information on MCO and other types of requests is provided below.

MCO requests are calculated using state budget guidelines and Board policy. A MCO request includes funding for Change in Employee Compensation (CEC), health insurance cost increases, inflationary increases for operating expenses (including utilities), and central state agency cost areas (Treasurer, Controller, etc.). These items are calculated using rates established by DFM. Other MCO items include replacement capital (i.e. equipment), and external non-discretionary adjustments such as health education program contract adjustments. Replacement capital requests take into account equipment depreciation schedules, and institutions may request one-time replacement capital in General Funds based on the B-7 Replacement Capital form. A MCO budget is considered the minimum to maintain operations, while line items are requests for new or expanded programs, occupancy costs, and other initiatives deemed important by the Board, institution/agency, Legislature or Governor.

The capital building budget request is a separate, parallel process which flows through the Division of Public Works (DPW) and the Permanent Building Fund Advisory Council (PBFAC), with funding provided from the Permanent Building Fund. Agencies and institutions seek funding for major capital projects and major Alteration and Repair (A&R) maintenance projects through that process.

FY2019 Line Item request guidelines. The following guidelines apply to the college/university line item requests for FY2019. These guidelines are elective in nature for the community colleges and the Division of Career Technical Education (CTE), though all institutions and agencies under the governance of the Board will

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face similar challenges for additional resources in FY2019. In its submission to DFM, the Board will support no more than two line item requests for FY2019, with a combined dollar value cap of 5% of the requesting institution's FY2018 General Fund appropriation. This is the same guidance issued for the FY2018 budget request. There are no restrictions or special instructions for FY2019 requests related to occupancy costs or Permanent Building Fund capital project and A&R requests. Line item requests should be clearly and precisely defined and should follow the instructions and formats provided in the Budget Development Manual. When a line item contains multiple elements, those elements should be prioritized to make them "scalable" in the event only partial funding is made available for a line item. Draft line item requests from Board institutions/agencies are due along with agenda item materials for the June 2017 Board meeting. Final review and approval of line items is expected to take place at the August 2017 Board meeting.

Report on "Complete College Idaho" (CCI) appropriations. The college/universities (and the community colleges) will again be required to report on the implementation and effectiveness of CCI appropriations received in FY2015, FY2016, and FY2017. A consolidated report will be provided not later than February 1, 2018 by the President of the Board to the Joint Finance-Appropriations Committee (JFAC), the Senate Education Committee, and the House Education Committee. Detailed instructions on compiling the information for the CCI report will be disseminated to institutions in the coming months.

**IMPACT**

The line item request guidelines proposed above will provide a model that has been used successfully by institutions to obtain State funding to support key initiatives in support of the Board's strategic goals. The model is flexible and can facilitate fine-tuning of individual requests to accommodate the fiscal realities which evolve over the course of the planning cycle and the upcoming Legislative session. The line item request process will complement the parallel budget planning activities related to facilities/infrastructure, endowment funds, student tuition/fees, and the MCO process.

**STAFF COMMENTS AND RECOMMENDATIONS**

Staff anticipates that one or more system-wide budget requests may emerge for FY2019 as a result of the work of the Governor's Higher Education Task Force. Potential recommendations may include Outcomes-Based Funding (OBF) proposals, enhancements to scholarship programs, changes to Advanced Opportunity programs, and/or other initiatives. Discussions with the Governor's Office and Legislature indicate that no Enrollment Workload Adjustment (EWA) is anticipated for the FY2019 budget request. The college/university two line item, 5% of General Fund cap enables institutions to carry out budget planning on how new state funding could best be used to meet the Board's strategic goals, whether the channel for new funding is an OBF approach or a line item approach.

Staff recommends approval.

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**BOARD ACTION**

I move to direct the college and universities to limit Fiscal Year 2019 budget line items requests to those which will measurably support implementation of the Board's strategic plan. Institutions may request up to two (2) line items in priority order, the total value of which shall not exceed five percent (5%) of an institution's FY2018 total General Fund appropriation. Any requests for occupancy costs will not count towards the two line item limit or the 5% cap.

Moved by \_\_\_\_\_ Seconded by \_\_\_\_\_ Carried Yes \_\_\_ No \_\_\_

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**SUBJECT**

FY 2018 Idaho Opportunity Scholarship Educational Costs

**REFERENCE**

December 2013	The Idaho State Board of Education (Board) set the maximum award amount, student contribution amount, and cost of attendance for FY2015
December 2014	The Board increased the maximum award amount for FY2015
April 2015	The Board set the FY2016 maximum award amount, expected family contribution and educational cost.
April 2016	The Board set the FY2017 maximum award amount, expected family contribution and educational cost.

**APPLICABLE STATUTE, RULE, OR POLICY**

Idaho Code § 33-4303, Idaho Opportunity Scholarship  
IDAPA 08.01.13, Rules Governing the Opportunity Scholarship

**BACKGROUND/ DISCUSSION**

The intent of the Idaho Opportunity Scholarship is to: (i) provide financial resources to Idaho students who are economically disadvantaged; (ii) close the gap between the estimated cost of attending an eligible Idaho postsecondary institution and the expected student and family contribution toward such educational costs; and (iii) encourage the educational development of such students in eligible Idaho postsecondary institutions.

In 2014-15 \$4,916,579 was disbursed to 1,465 scholarship recipients with an average award amount of \$3,440. In 2015-2016 \$5,146,248 was distributed to 1,868 scholarship recipients with an average award amount of \$2,881. In 2016-2017 \$9,868,532 was distributed to 3,454 scholarship recipients with an average award amount of \$2,857. Currently, 5,229 eligible students have applied for the scholarship for 2017-18, and there is approximately \$10.3 million in funding available.

Idaho Administrative Code, IDAPA 08.01.13.03 (Rules Governing the Opportunity Scholarship) requires the Board to annually set: (1) the educational costs for attending an eligible Idaho postsecondary institution; and (2) the amount of the assigned student responsibility (i.e. eligible students are expected to share in the cost of their education and will be required to contribute an amount determined by the Board).

The educational cost may include student tuition, fees, book and other necessary education expenses. The standard educational cost for FY 2015 award

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determination purposes was \$18,600 for the 4-year institutions and \$12,700 for the 2-year institutions. In FY 2016, pursuant to IDAPA 08.01.13 these amounts were set for each institution and were based on the institution's published educational cost for fulltime undergraduate students attending two semesters per year.

While not required by statute or rule, the Board has historically set a maximum award in order to increase the number of awardees. The maximum award amount for FY 2015 was \$3,750 and \$3,000 in FY 2016 and FY 2017. The majority of full-year student recipients were eligible for the maximum \$3,000 award. The actual award amount cannot exceed the actual cost of tuition to the student.

Individual student award amounts are calculated based on the education cost for the institution the student attends, the student contribution amount, other scholarships and financial aid the student receives, actual tuition costs and the maximum award amount. As an example, based on the proposed amounts, if a student attends the University of Idaho with a set educational cost of \$20,640, the Opportunity Scholarship award amount would be calculated as follows:

	<u>Student A</u>	<u>Student B</u>
Educations Cost	\$20,640	\$20,640
Student Contribution	\$3,000	\$3,000
Other scholarships and financial aid	<u>\$10,000</u>	<u>\$15,000</u>
Total Remaining	\$7,640	\$2,640
Eligible Award Amount	\$3,500	\$2,640

The actual award amount for each student may be further adjusted based on how other scholarships and financial aid are required to be applied and the actual amount charged to the student. Payments are made directly to the institution on the students behalf.

**IMPACT**

Setting the educational cost and student contribution amounts fulfills the Board's responsibilities under administrative rule. Combined with setting the award cap, this action will enable Board staff to begin processing applications and making award determinations for FY 2018.

**STAFF COMMENTS AND RECOMMENDATIONS**

Staff recommends the FY 2018 educational cost for the Opportunity scholarship award formula to be set for each public institution as follows:

- \$20,640 for students attending University of Idaho
- \$19,424 for students attending Boise State University
- \$20,179 for students attending Idaho State University
- \$17,362 for students attending Lewis-Clark State College
- \$13,458 for students attending College of Southern Idaho



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\$13,152 for students attending College of Western Idaho  
\$14,754 for students attending North Idaho College  
\$16,230 for students attending Eastern Idaho Technical College

Staff recommends the FY2018 educational cost for the Opportunity scholarship award formula to be set at \$19,401 for students attending eligible Idaho private, not-for-profit postsecondary institutions (as defined in Idaho Code §33-4303(2)(b)). Pursuant to administrative rule, this amount is the average of the amount set for the four public 4-year institutions.

Staff recommends that the FY2018 student contribution be set at \$3,000 for students attending either 4-year institutions or 2-year institutions, and to accept student-initiated scholarships and non-institutional and non-federal aid as part of the student contribution. Setting the student contribution amount at \$3,000 equally balances the maximum state contribution with the required student contribution.

Staff recommends approval of the Opportunity Scholarship maximum award in the amount of \$3,500 per year [note: while the maximum potential award from the state would increase to \$3,500 per year, the required student contribution would remain at the current level of \$3,000 per year, as described in the paragraph above].

**BOARD ACTION**

I move to set the FY2018 educational cost for the Opportunity scholarship award not to exceed the following amounts:

1. \$20,640 for students attending University of Idaho
2. \$19,424 for students attending Boise State University
3. \$20,179 for students attending Idaho State University
4. \$17,362 for students attending Lewis-Clark State College
5. \$13,458 for students attending College of Southern Idaho
6. \$13,152 for students attending College of Western Idaho
7. \$14,754 for students attending North Idaho College
8. \$16,230 for students attending Eastern Idaho Technical College

Moved by \_\_\_\_\_ Seconded by \_\_\_\_\_ Carried Yes \_\_\_\_\_ No \_\_\_\_\_

**AND**

I move to approve the Opportunity Scholarship maximum award in the amount of \$3,500 per year.

Moved by \_\_\_\_\_ Seconded by \_\_\_\_\_ Carried Yes \_\_\_\_\_ No \_\_\_\_\_

**AND**

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I move to approve the FY17 student contribution be set at \$3,000 and to accept student-initiated scholarships and non-institutional and non-federal aid as part of the student contribution.

Moved by \_\_\_\_\_ Seconded by \_\_\_\_\_ Carried Yes \_\_\_\_\_ No \_\_\_\_\_

**BUSINESS AFFAIRS AND HUMAN RESOURCES**  
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**IDAHO STATE UNIVERSITY**

**SUBJECT**

Approval of the Memorandum of Understanding between Idaho State University (ISU) and the Idaho College of Osteopathic Medicine (ICOM) for Institutional Review Board (IRB) services.

**REFERENCE**

February 2016	Idaho State Board of Education (Board) approved Collaborative Affiliation Agreement.
August 2016	Board approved execution of Ground Lease for ICOM to build its medical education building on the ISU Meridian campus.

**APPLICABLE STATUTES, RULE OR POLICY**

Idaho State Board of Education Governing Policies & Procedures, Section V.I. 6.b.

**BACKGROUND / DISCUSSION**

On February 25, 2016, in a special meeting of the Board, Idaho State University (ISU) was authorized to execute the Collaborative Affiliation Agreement between ISU and the Idaho College of Osteopathic Medicine (ICOM) for the creation of a college of osteopathic medicine on the ISU-Meridian campus. The Collaborative Affiliation Agreement provides for the execution of a lease between the parties for an initial period of forty (40) years, with the opportunity to extend the lease for two (2) additional ten (10) year periods. Under the terms of the Ground Lease Agreement between ISU and ICOM, ICOM will lease 2.8 acres from ISU on which to build its school and related improvements.

ISU and ICOM would like to enter into a Memorandum of Understanding which states the parties intend that ISU will provide IRB services to ICOM for human subject research activities. If approved, ISU and ICOM will negotiate the complete terms and conditions in an IRB Authorization Agreement that will be presented at a future Board meeting.

**IMPACT**

ICOM will pay ISU for IRB services at a rate to be negotiated. At this time, it is unknown how many and what type of protocols will be submitted. However, it is possible that providing these IRB services to ICOM may entail additional ISU personnel to accommodate the increased workload.

**ATTACHMENTS**

Attachment 1 – IRB MOU

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**STAFF COMMENTS AND RECOMMENDATIONS**

Board approval of the proposed MOU between ISU and ICOM will provide documentation to accreditors and other stakeholders that the Board supports negotiation of an agreement which, if subsequently approved by the Board, would provide IRB support to ICOM through ISU personnel/resources.

Staff recommends approval.

**BOARD ACTION**

I move to authorize Idaho State University to enter into the Institution Review Board MOU with the Idaho College of Osteopathic Medicine as presented in Attachment 1, and to authorize ISU to proceed with negotiations on an IRB Authorization Agreement.

Moved by \_\_\_\_\_ Seconded by \_\_\_\_\_ Carried Yes \_\_\_\_\_ No \_\_\_\_\_

**Memorandum of Understanding Between**  
**IDAHO STATE UNIVERSITY**  
**and**  
**IDAHO COLLEGE OF OSTEOPATHIC MEDICINE**

This Memorandum of Understanding (MOU) is entered into by and between Idaho State University (ISU) and the Idaho College of Osteopathic Medicine (ICOM) as of 15, March 2017 (Effective Date).

WHEREAS, ISU owns certain real property located at the ISU-Meridian Health Science Center, 1311 E. Central Drive, Meridian, ID 83642;

WHEREAS, ICOM is a private company created by its organizers for the purpose of creating and operating a private accredited college of osteopathic medicine in the State of Idaho;

WHEREAS, the parties entered into a Collaborative Affiliation Agreement on February 26, 2016 and a Ground Lease on September 15, 2016;

NOW, THEREFORE, ISU and ICOM hereby agree as follows:

1. To facilitate the continued collaboration between ISU and ICOM, to clarify oversight responsibility for collaborative research, and to provide for the efficient review of collaborative protocols, ICOM wishes to authorize the ISU Institutional Review Board (IRB) to be its IRB for approval and continued oversight of its human subject research.
2. The parties agree that they will work together to develop an IRB Authorization Agreement, which will set forth the responsibilities of each party as well as other terms and conditions necessary to complete the agreement.
3. This MOU embodies the entire agreement and understanding of the parties with regard to the subject matter herein and supersedes all prior understandings.
4. This MOU shall not be modified except in writing signed by the parties.

IN WITNESS WHEREOF, ISU and ICOM have executed this MOU as of the Effective Date.

IDAHO STATE UNIVERSITY

IDAHO COLLEGE OF OSTEOPATHIC  
MEDICINE, LLC

BY: \_\_\_\_\_

BY: \_\_\_\_\_

NAME: Arthur C. Vailas, President

NAME: \_\_\_\_\_

DATE: \_\_\_\_\_

DATE: \_\_\_\_\_

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**BUSINESS AFFAIRS AND HUMAN RESOURCES**  
**APRIL 20, 2017**

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**UNIVERSITY OF IDAHO**

**SUBJECT**

Lease of medical education space for University of Idaho (UI) WWAMI (Washington, Wyoming, Alaska, Montana and Idaho) regional medical education training program.

**REFERENCE**

April 2014 Idaho State Board of Education (Board) received WWAMI report including curriculum changes and use of Pullman, WA facilities.

April 2015 Board received update on WWAMI curriculum changes and use of Pullman, WA facilities.

**APPLICABLE STATUTE, RULE, OR POLICY**

Idaho State Board of Education Governing Policies & Procedures, Section V.I.2.e

**BACKGROUND/DISCUSSION**

To meet expanded student and program responsibility for the UI's WWAMI medical education program, the UI has already repurposed or remodeled existing UI facilities in Moscow. However, some specialized medical education facilities currently provided to UI by Washington State University (WSU) at Pullman, WA will, as of 2019, no longer be available to UI as WSU develops its own medical school in Spokane. Consequently, UI must acquire an anatomy lab along with supporting medical student and faculty space required for delivery of the specialized laboratory training needed to meet WWAMI's program obligations for UI medical students in Moscow. UI has determined that collaborating with Gritman Medical Center and utilizing approximately half of the third floor of their newly constructed medical service building near UI's existing WWAMI building is and is preferable because it will reduce UI's expected construction time and costs to provide such specialized space on the UI campus. This location also creates substantial program advantages due to synergies between WWAMI and Gritman as well as its location in Gritman's expanding regional medical campus that adjoins the UI campus in downtown Moscow.

**IMPACT**

Existing and expected WWAMI program budget allocations will be used to cover rent and facility operating costs for the terms of the proposed lease. The proposed agreement establishes a rental rate that covers the \$2.9 million expense for Gritman to finish highly specialized anatomy laboratory space along with teaching space required for this essential medical education experience. The initial lease term is ten years, but may be renewed by UI at established renewal rates. UI may terminate the lease early and cease its base rent and operating cost expenses, but in the unlikely event of early lease termination, UI will be required to reimburse the

**BUSINESS AFFAIRS AND HUMAN RESOURCES**  
**APRIL 20, 2017**

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landlord for the specialized tenant improvements provided by Gritman at lease commencement. In addition to rent, UI is also responsible for metered utility expenses, janitorial, and some allocated building expenses. This project is critical to providing facilities needed for medical education and is separate and distinct from other WWAMI capital construction projects.

**ATTACHMENTS**

Attachment 1 – Draft Lease Agreement Page 3  
Attachment 2—Current and Proposed WWAMI Facilities in Moscow Page 265

**STAFF COMMENTS AND RECOMMENDATIONS**

Board Policy V.I.2.e. requires Board approval for leases which exceed five years or when lease costs will exceed one million dollars. Both criteria apply to the initial term of the proposed UI-Gritman lease. The proposed actions will support the recommendations of the Board’s Medical Education Committee and ongoing Health Education Plan initiatives from the Governor and Legislature.

Staff recommends approval.

**BOARD ACTION**

I move to approve the request by the University of Idaho to enter into a lease agreement with Gritman Medical Park, LLC in substantive conformance with the agreement provided as Attachment 1; and further to authorize the Vice President for Infrastructure for the University of Idaho to execute all necessary transaction documents for leasing this facility.

Moved by \_\_\_\_\_ Seconded by \_\_\_\_\_ Carried Yes \_\_\_\_\_ No \_\_\_\_\_



LEASE AGREEMENT  
UNIVERSITY OF IDAHO

THIS LEASE AGREEMENT (“**Lease**”), dated as of the \_\_\_\_ day of \_\_\_\_\_, 2017 (“**Effective Date**”), by and between the Board of Regents of the University of Idaho, a state educational institution and body politic organized and existing under the constitution and laws of the State of Idaho (the “**Lessee**”), and Gritman Medical Park, LLC, an Idaho limited liability company (the “**Lessor**”). Lessee and Lessor each as a “**Party**” and collectively the “**Parties**” to this Lease. Lessor and Lessee agree as follows:

1. **Leased Premises.** Lessee does hereby lease from Lessor, upon the terms and conditions set forth below, approximately 8230 square feet as depicted on Exhibit A (the “**Leased Premises**”) and located at 803 South Main Street, Moscow, Idaho (collectively, the real property and all improvements thereon being the “**Facility**”), together with all equipment, fixtures and furnishings located on the Leased Premises as of the Commencement Date, including without limitation, the equipment, fixtures and furnishings described on Exhibit B (“**Leased Fixtures**”). If suite number is not indicated upon execution Lessor shall provide an addendum to this Lease to identify the suite number once such suite number is determinable.

2. **Common Areas.** In addition, Lessor shall make available at all times during the Term of this Lease such Common Areas as Lessor, in Lessor’s sole and exclusive discretion, shall from time to time deem appropriate. For purposes of this Lease, the “**Common Areas**” means the land and improvements which at the time in question have been designated by Lessor for common use by or for the benefit of one or more lessees, including without limitation, any land and improvements utilized as parking areas, passenger and delivery loading areas, sidewalks and driveways, interior corridors, stairways, elevators, restrooms and such other common areas as may be designated from time to time by the Lessor. All Common Areas shall be subject to reasonable rules and regulations for the use thereof as prescribed from time to time by Lessor.

3. **Term.** This Lease shall be in effect for the term commencing \_\_\_\_\_, 2017 (the “**Commencement Date**”) until 11:59 p.m., \_\_\_\_\_, 2027 (the “**Initial Term**”). Lessee shall have the right and option (“**Renewal Option**”) to extend this Lease for four (4) additional five (5) year terms beyond the expiration of the Initial Term (each, a “**Renewal Term**”) upon the terms and conditions set forth in this Lease. The Initial Term, as extended by any Renewal Term, shall constitute the “**Term**” of this Lease. Lessee may exercise Lessee’s Renewal Option by providing at least one hundred and eighty (180) days’ Notice to Lessor prior to the expiration of the Initial Term or the then current Renewal Term, as applicable, and only if Lessee at the time of exercise and at the beginning of the subsequent Renewal Term is not in default beyond any period provided by this Lease for curing the default.

In the event the Commencement Date cannot be determined upon the date this Lease is executed, the Parties agree that the Commencement Date will be added through an addendum executed by both Parties and will be the date upon which Lessee takes possession of the Leased Premises.

4. **Rent.**

4.1 **Rent.** Beginning on the Commencement Date Lessee shall pay to Lessor as annual base rent for the Leased Premises the amount set forth in Section 4.2, which shall be calculated by multiplying \$12 per square foot of space multiplied by the total rentable square feet (as identified in Section 1) of the Leased Premises (“**Base Rent**”). Base Rent shall be paid in advance on each anniversary of the Commencement Date throughout the Term of the Lease. All Base Rent, all Additional Rent (as defined below) and all other amounts to be paid by Lessee to Lessor under this

Lease shall be paid in lawful money of the United States of America and shall be paid without deduction or offset, prior notice or demand, at such place as may be designated from time to time by Lessor. Unless otherwise provided in writing by Lessor or this Lease, there shall be no abatement for any reason of the Base Rent or any other amounts payable by Lessee to Lessor under this Lease. Lessor and Lessee agree and acknowledge that Base Rent has been calculated based on an agreed upon lease rate for the Leased Premises but does not include those additionally specified costs relating to buildout of the Leased Fixtures as specified in Exhibit B ("**Leased Fixture Cost**"), or certain ongoing operating costs which are explicitly listed herein. All such additional amounts identified in Section 4.5, which pursuant to this Lease are to be paid by Lessee to Lessor in addition to the Base Rent, shall be considered "**Additional Rent**" for all purposes under this Lease and shall be included in the reference to "**Rent.**"

**4.2 Base Rent, Common Area Maintenance Expense, and Leased Fixture Cost Schedule for Initial and Renewal Terms.** Beginning on the Commencement Date and on each anniversary thereof during the Initial Term, Base Rent, Common Area Maintenance Expense and Leased Fixture Cost shall be paid by Lessee to Lessor in accordance with the following table:

<b>Year</b>	<b>Annual Common Area Maintenance Expense</b>	<b>Annual Base Rent</b>	<b>Annual Leased Fixture Cost</b>
1	\$12,345	\$98,760	\$428,998
2	\$12,592	\$100,735	\$128,998
3	\$12,844	\$102,750	\$128,998
4	\$13,101	\$104,805	\$128,998
5	\$13,363	\$106,901	\$128,998
6	\$13,630	\$109,039	\$128,998
7	\$13,902	\$111,220	\$128,998
8	\$14,181	\$113,444	\$128,998
9	\$14,464	\$115,713	\$128,998
10	\$14,753	\$118,027	\$128,998

In the event that Lessee exercises one or more Renewal Options provided herein, the Base Rent and Common Area Maintenance Expense payable during each Renewal Term shall be in accordance with the following table:

<b>Year</b>	<b>Annual Common Area Maintenance Expense</b>	<b>Annual Base Rent</b>	<b>Annual Leased Fixture Cost</b>
11	\$15,048	\$120,388	\$128,998
12	\$15,349	\$122,795	\$128,998
13	\$15,656	\$125,251	\$128,998
14	\$15,970	\$127,756	\$128,998
15	\$16,289	\$130,311	\$128,998
16	\$16,615	\$132,917	\$128,998
17	\$16,947	\$135,575	\$128,998
18	\$17,286	\$138,287	\$128,998
19	\$17,632	\$141,053	\$128,998
20	\$17,984	\$143,874	\$128,998
21	\$18,344	\$146,751	\$128,998
22	\$18,711	\$149,686	\$128,998
23	\$19,085	\$152,680	\$128,998
24	\$19,467	\$155,734	\$128,998
25	\$19,856	\$158,848	\$128,998
26	\$20,253	\$162,025	\$128,998
27	\$20,658	\$165,266	\$128,998
28	\$21,072	\$168,571	\$128,998
29	\$21,493	\$171,942	\$128,998
30	\$21,923	\$175,381	\$128,998

**4.3 Early Termination:**

A. Upon no less than one year’s prior written notice to Lessor, Lessee shall have the unilateral right to terminate this Lease and all rights and obligations of this lease shall terminate on the date that is one year after Lessee’s notice of early termination (the “**Early Termination Date**”), except for those rights and obligations that survive termination as specifically provided herein. However, no less than thirty days prior to such Early Termination Date, Lessee shall pay Lessor any unpaid amounts from the Leased Fixture Costs for the entire Term remaining unpaid as of the Early Termination Date as shown in the table in Section 4.2, including, for the avoidance of doubt, the unpaid Leased Fixture Costs for all Renewal Terms, whether any Renewal Option has been exercised or not. So long as Lessee provides the notice required in this paragraph to terminate this Lease early, Lessee will not be responsible for paying any rent, except any remaining unpaid amounts of Leased Fixture Costs for the entire Term, for a time period extending beyond the Early Termination Date as provided herein; provided however, that if Lessee finds a tenant who enters into a replacement lease for the Leased Premises for the same or greater Rent for the entire remaining Term of this Lease, including all Renewal Terms, whether any Renewal Option has been exercised or not, Lessee shall have no obligation to pay remaining Leased Fixture Costs. Any new tenant identified by Lessee shall be subject to Lessor’s prior written consent in each instance, which shall not be unreasonably withheld. Any new tenant and replacement lease is contingent upon the space retaining its medical character and the replacement tenant being sufficiently creditworthy to satisfy the obligations of the replacement lease. Any attempt to replace Lessee with a replacement tenant without the prior written consent of Lessor shall be wholly null and void.

B. In the event Lessee terminates this Lease prior to the end of the Initial Term without giving the notice required in Section 4.3(A), Lessee's duty to pay rent will continue as provided in this Lease and the other terms of this paragraph will apply. Lessor shall mitigate by seeking a qualified lessee to occupy the Leased Premises and to maintain the space's medical character. Lessor will give full consideration to any qualified lessee identified by Lessee as a potential new tenant; provided that any new tenant and replacement lease is contingent upon the space retaining its medical character and the replacement tenant being sufficiently creditworthy to satisfy the obligations of the replacement lease. Lessee shall pay any rent outstanding in accordance with the terms of this Lease. Upon the execution of a lease with a subsequent lessee, Lessee's obligation to pay future rent shall be reduced by the amount of rent payable by the subsequent lessee, as determined in the subsequent lease. Lessor shall not unreasonably reject subsequent lessees that maintain a medical related business. Lessee shall reimburse Lessor for all reasonable expenses Lessor incurs as a result of seeking a subsequent lessee.

**4.4 Late Charge.** If any sum becomes owing to Lessor under this Lease or if any Rent is not paid within twenty (20) days after the due date, such Rent shall accrue interest from the date due at the rate of eighteen percent (18%) per annum or the maximum rate allowable under applicable law, whichever is less.

**4.5 Additional Rent.** In addition to the Base Rent under this Lease, Lessee shall be responsible for those costs and expenses incurred by Lessor with respect to the Leased Premises as set forth in this Lease, including, (i) taxes as described in Section 6, (ii) insurance as described in Section 17.2, (iii) Lessor's costs to maintain Common Areas including but not limited to custodial services for shared hallways and bathrooms, elevator maintenance, exterior window cleaning, grounds keeping, parking lot maintenance and snow removal (the "**Common Area Maintenance Expenses**") in the amounts set forth in Section 4.2, and (iv) Leased Fixture Costs as established above in Sections 4.1 and 4.2. Lessor and Lessee agree that as of the Commencement Date, Lessee's prorata share for purposes of calculating Additional Rent for item (ii) is **18.5%** ("**Lessee's Prorata Share**"), representing the ratio that the rentable area of the Leased Premises bears to the total rentable area of Facility.

**5. Utilities.** Lessee shall be solely responsible for and shall promptly pay all charges when due for utilities furnished at the Leased Premises during the Term of this Lease, including, but not limited to electricity, gas, telephone, water, sewer and garbage services (including Hazardous Material removal). Lessor shall furnish such amounts and types of utilities and janitorial services to the Common Areas as Lessor shall at any given time deem appropriate for the operation and maintenance of the Common Areas.

**6. Taxes.** Lessee may be exempt by law from real and personal property taxes and shall only pay to Lessor as Additional Rent those taxes lawfully applicable to Lessee's use of the Leased Premises, Lessee's use of Lessor's personal property located upon the Leased Premises or Common Area, or Lessee's ownership of property located on the Leased Premises (if any). Lessee shall provide to Lessor or directly to the taxing jurisdiction verification, if requested, to confirm Lessee's tax exempt status. Nothing contained herein shall be construed to require Lessee to pay any estate, gift, inheritance or net income tax of Lessor. If any such lawfully applicable taxes on Lessee's real or personal property or trade fixtures located on the Leased Premises, Lessee's use of the Leased Premises, or Lessee's use of Lessor's personal property located upon the Leased Premises or Common Area are levied against Lessor or the Facility, Lessor shall have the right to pay such levy or assessment. Lessee shall, upon demand, as the case may be, repay Lessor the lawfully applicable taxes so levied, assessed or paid by Lessor which are directly attributable to Lessee's occupancy of the Leased Premises, Lessee's use of Lessor's personal property located upon the Leased Premises or Common Area, or Lessee's ownership of property located on the Leased Premises. Lessee shall

promptly pay within thirty (30) days of receipt of an invoice from Lessor, any taxes lawfully applicable to Lessee's use of the Leased Premises, Lessee's use of Lessor's personal property located upon the Leased Premises or Common Area, or Lessee's ownership of property located on the Leased Premises.

**7. Acceptance; Maintenance and Repairs.** Leased Premises are built to suit Lessee's specifications, as provided in Exhibit B. Lessee has not had an opportunity to inspect the Leased Premises at the time of execution of this Lease. In the event Lessor does not comply with Lessee's specifications in Exhibit B, Lessee shall provide notice of such deficiency to Lessor. Upon receipt of notice Lessor shall remedy the deficiency within thirty (30) days. If Lessor is unable to remedy the deficiency, Lessor may elect to terminate this Lease at no cost to Lessee. Any Lessee requested modifications to Lessee's specifications in Exhibit B subsequent to the execution of this Lease require Lessor's written consent and Lessee shall pay for such modifications. Lessor grants to Lessee the quiet use and enjoyment of the Leased Premises for all purposes permitted under this Lease.

**7.1 Maintenance and Repair by Lessee.** Lessee agrees at all times during the Term of this Lease, at Lessee's sole expense, to keep and maintain the Leased Premises in good and clean condition and repair, including without limitation, the Leased Fixtures, and at the termination of this Lease, to surrender the Leased Premises and the Leased Fixtures to Lessor in as good condition as when delivered to Lessee, ordinary wear and tear resulting from careful and reasonable use excepted.

**7.2 Maintenance and Repair by Lessor.** Subject to Section 7.1, Lessor shall repair and maintain the Facility including the Common Areas, plumbing systems, heating and air conditioning, elevators, electrical systems, window cleaning, and snow removal at the Facility. Lessor shall not be liable for any failure to make any repairs or to perform any maintenance unless such failure shall persist for an unreasonable time after Notice of the need for such repairs or maintenance is given to Lessor by Lessee. Lessor shall make reasonable efforts to repair or perform maintenance as required within 10 days after receiving such Notice. There shall be no abatement of Rent and no liability of Lessor by reason of any injury to or interference with Lessee's business arising from the making of any repairs, alterations or improvements in or to any portion therein. Lessor shall, except to the extent prevented by practical impossibility, and except as otherwise provided herein, keep HVAC systems, glass, plumbing, and electrical systems, the foundation roof and roof membrane, roof drainage systems, and structural elements of the Leased Premises and Facility in good repair, order and condition, reasonable wear and tear expected. All repairs contemplated in this Section 7.2 shall be the sole responsibility of the Lessor, without right to reimbursement from Lessee. Lessor shall be solely responsible to meet all ADA (American with Disabilities Act) requirements in the Facility at Lessor's sole cost and expense, including parking, structure, sidewalks, walkways, stripping, point of entry, curbs, van accessible parking, ramps, driveways, etc.

**8. Use of Premises.** The Facility (of which the Leased Premises is part) shall be used and occupied by Lessee to support all aspects of Lessee's education, research and outreach functions as a public educational institution, inclusive of all aspects of the WWAMI medical education program, which Lessee participates in, and which is provided under the auspices of the University of Idaho. Lessee shall not do or permit anything to be done on the Leased Premises which will in any way obstruct or interfere with the rights of other Lessees or occupants of the Leased Premises or injure them or allow the Leased Premises to be used for any improper, immoral, or unlawful purpose, nor shall Lessee cause, maintain or permit any nuisance on the Leased Premises. The Parties agree that normal use of the Leased Premises, for the purpose herein described, does not obstruct or interfere with other occupants or Lessees of the Facility, and that it does not constitute an improper, immoral, or unlawful purpose.

**9. Compliance with Environmental Laws.** From the date of occupancy, both Parties represent, warrant, and covenant to the other Party that:

A. Each Party shall remain in compliance with all applicable laws, ordinances, and regulations (including consent decrees and administrative orders) relating to public health and safety and protection of the environment, including those statutes, laws, regulations, and ordinances identified in subparagraph (B), all as amended and modified from time, to time. All governmental permits relating to the use or operation of the Facility, Common Areas, or Leased Premises required by applicable environmental laws are and will remain in effect, and each Party will comply with them.

B. For the purpose of this Section 9, the term "**Hazardous Material**" includes, without limitation, any flammable explosives, radioactive materials, hazardous materials, hazardous wastes, hazardous or toxic substances, or related materials defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, as amended (42 U.S.C. §9601 et seq.), the Hazardous Materials Transportation Act, as amended (49 U.S.C. § 1801 et seq.), the Resource Conservation and Recovery Act of 1976, as amended (42 U.S.C. § 6901 et. seq.), and in the regulations adopted and publications promulgated pursuant to them, or any other federal, state, or local environmental laws, ordinances, rules, or regulations now enacted or enacted after this date (collectively, the "**Environmental Laws**").

C. Neither Party will permit to occur any release, generation, manufacture, storage, treatment, transportation, use, or disposal of Hazardous Material in a way that is contrary to law, on, in, under, or from the Facility, Common Areas or Leased Premises, and if any hazardous material is found on the Facility, Common Areas, or Leased Premises which is a result of either Party's operations, the Party responsible for such Hazardous Material at its own cost and expense, will immediately take such action as is necessary to detain the spread of and remove the Hazardous Material to the complete satisfaction of the appropriate government authorities, and, in the case of Hazardous Materials from Lessee's operations, to the satisfaction of Lessor as well.

D. Each Party responsible for Hazardous Material in the Facility, Common Areas or Leased Premises will indemnify and hold harmless the other Party and its employees, agents, officers, and directors from and against any claims, demands, penalties, fines, liabilities, settlements, damages, costs, or expenses of any kind or nature, known or unknown, contingent or otherwise, rising out of or in any way related to the acts and omissions of the responsible Party, its officers, directors, employees, agents, contractors, subcontractors, sublessees, and invitees with respect to (1) the generation, manufacture, operations involving, transport, treatment, storage, handling, production, processing, disposal, release, or threatened release of any Hazardous Materials which are on, from or affecting the Facility, Common Areas, or Leased Premises; (2) any personal injury (including wrongful death) or property damage (real or personal) arising out of or related to such Hazardous Materials; (3) any lawsuit brought or threatened, settlement reached, or governmental order relating to such Hazardous Materials, and (4) violations of laws, order, regulations, requirements, or demands of governmental authorities or any reasonable policies or requirements of Lessor, which are based upon or in any way related to such Hazardous Material including, without limitation, attorney and consultant fees, investigation and laboratory fees, court costs, and litigation expenses. This indemnification will survive this Lease. Lessee's indemnification herein is subject to the limitations and provisions in the Idaho Tort Claims Act.

**10. Alterations and Additions.**

**10.1 Lessor's Consent.** Lessee shall not make any alterations or additions to the Leased Premises nor make any contract therefor, including fixtures or other improvements to the Leased

Premises (“**Improvements**”) during the Term of this Lease, without Lessor’s written consent being first obtained, which consent shall not be unreasonably withheld. Upon receipt of written request from Lessee for alteration or addition to the Leased Premises Lessor shall provide written response within fifteen (15) days.

**10.2 Improvements.** If such Improvements are approved by Lessor, any such Improvements shall be the Lessee’s financial responsibility and satisfy the following requirements:

(a) work shall proceed upon (i) Lessor’s written approval of Lessee’s contractor, (ii) delivery to Lessor of certificates of insurance prior to commencement of work in the Leased Premises indicating that Lessee’s contractor carries public liability and property damage insurance under a comprehensive liability insurance policy covering bodily injury in the amounts of One Million Dollars (\$1,000,000) per person and One Million Dollars (\$1,000,000) per occurrence and covering property damage in the amount of One Million Dollars (\$1,000,000), and (iii) Lessor’s written approval of plans and specifications for such work.

(b) All work shall be done in conformity with a valid building permit when required, a copy of which shall be furnished to Lessor before such work is commenced, and in any case, all such work shall be performed in a good and workmanlike manner and in compliance with all requirements of applicable governmental authorities and of the insurers of the Facility. Notwithstanding any failure by Lessor to object to any such work, Lessor shall have no responsibility for Lessee’s failure to meet all applicable regulations.

(c) Lessee or Lessee’s contractor shall coordinate the work through Lessor’s representative so as to minimize disruption to other lessees. For purposes of this section, Lessor’s representative is Gritman Engineering Director.

(d) Lessee shall promptly reimburse Lessor upon demand for any extra expense incurred by the Lessor by reason of faulty work done by Lessee or its contractor, or by reason of any delays caused by such work, or by reason of inadequate clean-up.

(e) Lessee shall indemnify and hold Lessor harmless from any loss, cost or expense, including attorneys’ fees and costs, incurred by Lessor as a result of any defects in design, materials or workmanship resulting from Lessee’s alterations, additions or improvements to the Leased Premises for any claims made during the Term of this Lease.

**10.3 Ownership.** Any and all Improvements to the Leased Premises and fixtures placed thereon by Lessee during the Term of the Lease or any renewal period shall be and become the property of Lessor, except that Lessee shall have the right to remove Lessee’s trade fixtures at Lessee’s expense at the end of the Term, provided that any and all damage caused by such removal shall be promptly repaired by Lessee.

**11. Signage.** Subject to (i) Lessor’s prior written approval as to the size and location of such proposed signage, and (ii) applicable laws, ordinances, or other restrictions, Lessee shall be permitted to install, at Lessee’s sole expense, identifying signage on or within the Leased Premises and adjacent to Lessee’s suite. No other signage shall be permitted without the Lessor’s prior written consent. Signage as provided in Exhibit C is approved by Lessor and no further approval is required.

**12. Lessor’s Right of Entry.** Upon provision of notice to Lessee not less than twenty four (24) hours in advance, Lessor and the authorized representatives of Lessor may enter the Leased Premises at all reasonable times for the purpose of exhibiting the same to interested third parties and, during the

final six (6) months of the Term (or before earlier termination by Lessee) of this Lease, may exhibit and show the Leased Premises for lease and may advertise the same in such manner as shall not unreasonably interfere with Lessee's business. Lessee hereby grants to Lessor such licenses or easements in and over the Leased Premises or any portion thereof as shall be reasonably required for the installation or maintenance of mains, conduits, pipes or other facilities to serve the Leased Premises or Facility. Subject to the notice provision in this section, Lessor and its agents shall have free access to the Leased Premises during all reasonable hours for the purpose of examining the same to ascertain if they are in good repair, and to make reasonable repairs which Lessor may be allowed to make hereunder. Lessor may enter the Leased Premises without notice in the event of a perceived emergency when Lessee is not available to consent.

### **13. Damage and Destruction.**

**13.1 Damage and Restoration.** If either the Leased Premises is damaged or destroyed to the extent that Lessor reasonably determines that it cannot, with reasonable diligence, be fully repaired or restored by Lessor within ninety (90) days after the date of such damage or destruction, either Lessor or Lessee may terminate this Lease. Lessor shall notify Lessee of any such determination in writing, within thirty (30) days after the date of such damage or destruction. If Lessor so determines that the Leased Premises can be fully repaired or restored within the ninety (90) day period, or if Lessor so determines to the contrary but neither Party terminates this Lease, then this Lease shall remain in full force and effect and Lessor shall diligently repair or rebuild the Leased Premises to return such improvements to the condition in which it/they existed immediately prior to such damage or destruction, as soon as possible and within the maximum period of ninety (90) days, if applicable.

**13.2 Rent Abatement.** During any period of reconstruction or repair of the Leased Premises, Lessee shall continue the operation of its business in the Leased Premises to the extent reasonably practicable. Rent due and payable hereunder shall be abated proportionately during any period in which, by reason of any such damage or destruction to the Leased Premises, the operation of Lessee's business in the Leased Premises experiences substantial interference, and that continuation of all or part of Lessee's business in the Leased Premises is not practical pending reconstruction. In such event, the Rent payable hereunder, or an equitable proportion thereof in the event Lessee continues to conduct business in the Leased Premises, shall abate from the date of damage or destruction until Lessee is able to conduct its full business operations in the Leased Premises.

### **14. Eminent Domain.**

**14.1 Condemnation.** If any portion of the Leased Premises is acquired or condemned by eminent domain or inversely condemned or sold in lieu of condemnation, for any public or quasi-public use or purpose ("**Condemned**"), then this Lease shall automatically terminate as of the date of title vesting in such proceeding or conveyance in lieu of any proceeding, and Rent shall be prorated to the date of such termination.

**14.2 Award.** Any award for any taking of all or any part of the Leased Premises under the power of eminent domain shall be the sole property of Lessor, whether such award shall be made as compensation for diminution in value of the leasehold or for the taking of the fee; provided, however, that Lessee shall be entitled to any amounts specifically awarded to it for the taking of its personal property or trade fixtures so long as any award given to Lessee does not lessen the recovery or award allocable to Lessor.



**15. Subordination; Attornment; Estoppel.**

**15.1 Subordination.** This Lease, at Lessor's option, shall be subject and subordinate to all ground or underlying leases which now exist or may hereafter be executed affecting the Leased Premises or Facility, and to the lien of any mortgage or deeds of trust in any amount whatsoever which now exist or may hereafter be placed upon the Leased Premises or the underlying land (Facility) or Lessor's interest therein, and to all advances on the security thereof, and all extensions, modifications, consolidations, renewals and replacements thereof. This provision shall be self-operative without the necessity of the execution and delivery of any further instruments on the part of Lessee to effectuate such subordination; provided, however, that so long as the Lessee shall not be in default under the terms of this Lease, the Lease shall not be terminated nor shall any of the Lessee's rights, benefits, and obligations under said Lease be disturbed by such lender or ground Lessor in the exercise of its rights under the mortgage, deed of trust or ground lease. If any mortgagee, trustee, or ground Lessor shall elect to have this Lease prior to the lien of its mortgage, deed of trust or ground lease, and shall give written notice thereof to Lessee, this Lease shall be deemed prior to such mortgage, deed of trust or ground lease, whether this Lease is dated prior to or subsequent to the date of said mortgage, deed of trust, or ground lease or the date of the recording thereof.

A. Lessee covenants and agrees to execute and deliver upon demand without charge therefor, such reasonable acknowledgements required by Lessor or Lessor's lender to subordinate this Lease to the lien of any such mortgages or deeds of trust as may be required, so long as such subordination does not disturb the rights of Lessee provided by the existing terms of this Lease and the obligations and benefits of this Lease, if ever released by Lessor, are assumed by the lender or lender's assign (so long as the Lessee shall not be in default under the terms of this Lease).

B. Notwithstanding anything in this Lease to the contrary, this Lease is subject and subordinate to all covenants, conditions, restrictions, and easements affecting the Leased Premises shown in the attached Exhibit D. Additional covenants, conditions, restrictions and easements may be imposed on the Leased Premises at any time as a result of acts by governmental entities or utilities. Lessor shall not be liable to Lessee for any injury arising from such subsequent acts or from the Lessor's amendment of the documents referenced within this Section 15.1(B). Lessee shall not do or omit to do any act, nor shall Lessor be required to do any act, which constitutes, or which may constitute, a default under or a violation of such covenants, conditions, restrictions and easements on the part of Lessor.

**15.2 Attornment.** In the event any mortgagee, beneficiary or other purchaser at a foreclosure sale acquires title to the Leased Premises, or in the event any ground Lessor causes Lessor's interest in the Leased Premises to be terminated and succeeds to Lessor's interest in the Leased Premises, Lessee shall attorn to such mortgagee, beneficiary, purchaser or ground Lessor and recognize such as Lessor under this Lease, provided such mortgagee, beneficiary, purchaser or ground Lessor agrees in writing to accept Lessee and to be bound by the terms of this Lease. In the event of a sale or conveyance by Lessor of Lessor's interest in the Leased Premises or in the Facility other than a transfer for security purposes only, Lessor shall be relieved from and after the date specified in any such notice of transfer of all obligations and liabilities accruing on the part of Lessor, provided that any funds in the hands of Lessor at the time of transfer in which Lessee has an interest, shall be delivered to the successor of Lessor. This Lease shall not be affected by any such sale and Lessee agrees to attorn to the purchaser or assignee. **Estoppel.** Lessee shall at any time upon not less than ten business days prior Notice from Lessor execute, acknowledge and deliver to Lessor a statement in writing (a) certifying that this Lease is unmodified and in full force and effect (or, if modified, stating the nature of such modification and certifying that this Lease, as so modified, is in full force and effect) and the date to which the Rent and other charges are paid in advance, if any, and (b)

acknowledging that there are not, to Lessee's knowledge, any uncured defaults on the part of Lessor hereunder, or specifying such defaults if they are claimed, and (c) acknowledging and certifying such other and further facts in connection with this Lease as may be reasonably requested by Lessor or a prospective purchaser or lender of the Facility or any part thereof. Any such statement may be conclusively relied upon by any prospective purchaser, lien holder, or encumbrancer of the Leased Premises or Facility.

## **16. Indemnification; Waiver of Liability.**

**16.1 Indemnification.** Subject to the limits of liability specified in Idaho Code 6-901 through 6-929, known as the Idaho Tort Claims Act, Lessee shall indemnify and hold Lessor harmless against and from any and all claims arising from Lessee's use of the Leased Premises, from any activity by Lessee in or about the Leased Premises or any activity permitted or suffered by Lessee in or about the Leased Premises, from any negligent or intentional act or omission on the part of Lessee or Lessee's agents, contractors, or employees, and from all costs, attorneys' fees, expenses and liabilities incurred in any such claim and that arise as a direct result of and which are caused by Lessee's possession, operations or performance under this Lease. This indemnification does not apply when such claims, damages, and liabilities are the result of negligent or willful acts, errors, omissions, or fault on the part of Lessor, its agents, contractors, employees or assigns, or when the claim or suit is made against Lessor by Lessee or the State of Idaho or any of its agencies claiming through or under the Lessee. Lessee's liability coverage is provided through a self-funded liability program administered by the State of Idaho Office of Insurance Management. Limits of liability, and this indemnification, are \$500,000 Combined Single Limits, which amount is Lessee's limit of liability under the Idaho Tort Claims Act.

Lessor shall indemnify and hold Lessee harmless from and against any and all claims arising from Lessor's use of the Facility, from any activity by Lessor in or about the Facility or any activity permitted or suffered by Lessor in or about the Facility, from any negligent or intentional act or omission on the part of Lessor or Lessor's agents, contractors, or employees, and from all costs, attorneys' fees, expenses and liabilities incurred in any such claim and that arise as a direct result of and which are caused by Lessor's possession, operations or performance under this Lease. This indemnification does not apply when such claims, damages, and liabilities are the result of negligent or willful acts, errors, omissions, or fault on the part of Lessee or its agents, contractors, employees or assigns, or when the claim or suit is made against Lessee by Lessor.

**16.2 Waiver of Liability.** Subject to the limits of liability specified in Idaho Code 6-901 through 6-929, known as the Idaho Tort Claims Act, Lessee, as a material part of the consideration to Lessor, hereby assumes all risk of damage to property or injury to persons in, upon or about the Leased Premises arising from any cause and Lessee hereby waives all claims in respect thereof against Lessor except for any acts of negligence by Lessor, Lessor's agent or Lessor's invitee while on the Leased Premises. Except as provided herein, Lessor shall not be liable for injury to Lessee's business or loss of income therefrom or for damage which may be sustained by the person, goods, wares, merchandise or property of Lessee, its employees, invitees, customers, agents or contractors or any other person in or about the Leased Premises caused by or resulting from fire, steam, electricity, gas, ice, snow, water or rain, which may leak or flow from or into any part of the Leased Premises, or from the breakage, leakage, obstruction or other defects of the pipes, sprinklers, wires, appliances, plumbing, air conditioning or lighting fixtures of the same, whether the said damage or injury results from conditions arising upon the Leased Premises or upon other portions of the Facility, or from other sources or places and regardless of whether the cause of such damage or injury or the means of repairing the same is inaccessible to Lessee. Except for acts by Lessor or Lessor's agent which are intentional or negligent, Lessee agrees to look solely to Lessor's estate and property in the

Facility, or the proceeds thereof, including any insurance proceeds, for the satisfaction of Lessee's remedies for the collection of a judgment or other judicial process requiring the payment of money by Lessor in the event of any default by Lessor, and no other property or assets of Lessor shall be subject to levy, execution or other enforcement procedure for the satisfaction of Lessee's claims.

## 17. Insurance.

**17.1 Liability Insurance.** Lessee shall either obtain the insurance Lessee deems advisable, or Lessee shall be deemed to self-insure subject to the limits of liability of the Idaho Tort Claims Act. Lessee waives all rights on insurance purchased by Lessor.

**17.2 Fire and Extended Coverage Insurance.** The following provisions shall apply with regards to Fire and Extended Coverage insurance.

A. Lessor shall procure and maintain during the Term of this Lease, Fire, and Extended Coverage Insurance on the Facility and other improvements in amounts as may from time to time be determined by Lessor ("**Lessor's Insurance**"), and the cost thereof, together with the cost of any other insurance carried by Lessor in connection with the Facility and the operation thereof, shall be included Additional Rent. Lessee shall promptly pay within thirty (30) days of receipt of an invoice from Lessor, Lessee's Prorata Share of Landlord's Insurance as set forth in the received invoice.

B. Lessee shall pay for all increases in Landlord's Insurance premiums caused by Lessee's use or occupancy of the Leased Premises, acts of negligence, or violation of the policy's provisions.

C. Lessee shall at all times during the Term hereof, and at its cost and expense, maintain in effect policies of insurance covering its personal property, fixtures and equipment located on the Leased Premises, in an amount not less than their actual cash value from time to time during the Term of this Lease, providing protection against any peril included within the classification Fire and Extended Coverage, together with insurance against vandalism and malicious mischief. Lessee shall be responsible, at its own costs and expense, to acquire its own business interruption insurance due to casualty damage to the Leased Premises. Lessor shall have no obligation to repair or replace any of Lessee's personal property, fixtures or equipment.

**17.3 Waiver of Subrogation.** Any policy or policies of insurance, which either Party obtains in connection with the Facility or Leased Premises, or Lessee's personal property therein, shall include a clause or endorsement denying the insurer any rights of subrogation against the other Party to the extent rights have been waived by the insured prior to the occurrence of injury or loss. Lessor and Lessee waive any rights of recovery against the other for damage or loss due to hazards covered by insurance containing such a waiver of subrogation clause or endorsement to the extent of the damage or loss covered thereby. Notwithstanding anything to the contrary contained in this Section or elsewhere in this Lease, neither Party shall be deemed to have released or waived any claim against the other for damages to property within the deductible amount of such Party's insurance policy, which deductible amount shall not exceed Five Thousand Dollars (\$5,000), whether or not at any time the actual deductible is greater than that amount.

**17.4 Forms and Policies.** All insurance required to be carried by Lessee shall be on forms and with loss payable clauses satisfactory to Lessor naming Lessor and Lessee as insured as their interest may appear. No such policy shall be cancelable (or coverage reduced) except after thirty (30) days' written notice to Lessor or ten (10) days written notice for non-payment of premium. All such policies shall be written as primary policies, not contributing with and not in excess of coverage which

Lessor may carry. Lessee shall at least ten (10) ten days prior to the expiration of such policies furnish Lessor with renewals or "binders" thereof, or Lessor may order such insurance and charge the costs thereof to Lessee, which amount shall be payable by Lessee upon demand. Lessee shall have the right to provide such insurance coverage pursuant to blanket policies obtained by Lessee provided such blanket expressly afford coverage to the Leased Premises and to the Lessee as required by this Lease.

**18. Default and Breach.** Time is of the essence of this Lease. A failure by either Party to perform any of the provisions of this Lease shall be an event of default and breach of this Lease. In the event that either Party should fail or refuse to observe, comply with, or perform any term or condition of this Lease on their part to be observed, complied with or performed, then the other Party shall, at its sole option, have, in addition to all other rights and remedies proved at law and in equity, the right either to terminate this Lease, upon the terms and conditions contained below. Before the non-breaching Party shall be entitled to terminate this Lease for either failure to pay the Rent as stated in this Lease, or failure to comply with any provision of this Lease, it shall first give the breaching Party thirty (30) days prior Notice of default. It shall set forth in such Notice of default, with reasonable specificity, the nature of the default or defaults on the part of the breaching Party. Such Notice of default shall comply with the Notice provisions set forth in Section 19. In the event that the breaching Party should cure the default or defaults within thirty (30) days, the non-breaching Party shall not have the right to terminate this Lease. Otherwise, the non-breaching Party shall have the right, at the expiration of the said thirty (30) day period, to terminate this Lease without the necessity of providing any further Notice to the other Party.

**19. Notices.** All notices and other communications ("**Notices**") must be in writing and may be delivered (a) in person, with the date of notice being the date of personal delivery, (b) by United States Mail, postage prepaid for certified or registered mail, return receipt requested, with the date of notice being the date of the postmark on the return receipt, (c) by e-mail, with confirmation of sending of the e-mail and a copy of the e-mail deposited on the same day in the United States Mail, with the date of notice being the date of the e-mail, (d) by nationally recognized delivery service such as Federal Express, with the date of notice being the date of delivery as shown on the confirmation provided by the delivery service. Notices shall be addressed to the following addresses, or such other address as one Party shall provide the other Party:

If to Lessor: Gritman Medical Park, LLC  
Attn: Kara Besst  
700 South Main Street  
Moscow, ID 83843

If to Lessee: University of Idaho  
Attn: Vice President for Infrastructure  
875 Perimeter Dr MS 3162  
Moscow ID 83844-3162

**20. No Smoking Facility.** Lessee acknowledges that the Facility has been designated by Lessor as a "No Smoking" Area/Facility and Lessee agrees to timely enforce such restriction with respect to his or her or its employees, contractors, agents, invitees and anyone who occupies or enters the Leased Premises.

**21. Assignment.**

**21.1 By Lessee.** Lessee shall not (voluntarily or involuntarily, whether by merger, consolidation, dissolution, operation of law, or any other manner) assign, license, transfer, mortgage or otherwise encumber all or any part of Lessee's interest in this Lease or in the Leased Premises, and shall not sublet or assign all or any part of the Leased Premises, without the prior written consent of Lessor in each instance, such consent to not be unreasonably withheld or delayed. Any assignment is contingent upon the space retaining its medical character. Any attempted assignment, transfer, mortgage, encumbrance or subletting without such consent shall be wholly null and void. No such assignment or subletting shall relieve Lessee of any liability under this Lease. Consent to any such assignment or subletting by Lessor shall not operate as a waiver of the necessity for a consent to any subsequent assignment or subletting, and the terms of such consent shall be binding upon any person holding by, under or through Lessee.

**21.2 By Lessor.** Lessor shall have the right to sell, assign, transfer, convey, or mortgage its interest in this Lease and in and to the Leased Premises or the fee parcel. Any such sale, assignment, transfer, conveyance, or mortgage shall not result in the disruption of Lessee's quiet enjoyment of the Leased Premises and any such sale, assignment, transfer, conveyance, or mortgage shall be subject to the terms of this Lease. Lessor may sell all or any portion of Lessor's interest in and to the Leased Premises or fee parcel, and may otherwise assign and transfer this Lease. Any assignee or successor-in-interest shall assume all obligations of Lessor under this Lease, and thereupon Lessor shall be relieved of all liabilities and obligations hereunder.

**22. Miscellaneous Provisions.**

**22.1 Binding Effect.** This Lease shall inure to the benefit of and shall be binding upon the Parties and their respective successors and assigns.

**22.2 Severability.** Each covenant, agreement and provision of this Lease shall be construed to be a separate covenant, agreement and provision. If any covenant, agreement or provision of this Lease or the application thereof to any person or circumstance shall to any extent be invalid or unenforceable, the remainder of this Lease, or the application of such covenant, agreement or provision to any person or circumstances other than those as to which such covenant, agreement or provision is invalid or unenforceable, shall not be affected thereby and each covenant, agreement and provision of this Lease shall be valid and enforceable to the extent permitted by law, except in the event where the invalidation would cause significant harm to either Party in which event the harmed Party may terminate this Lease upon ninety (90) days written notice to the other Party and where the Parties are unable to amend the invalidated provision to the satisfaction of both Parties. Significant harm is defined as any invalidation which would undermine a party's purpose for entering into this Lease, including, but not limited to, the defined use of the Leased Premises.

**22.3 Waiver.** No waiver of any covenant, condition or provision of this Lease, including this one, shall be deemed valid unless made in writing and executed by Lessor. No waiver of any covenant or condition of this Lease by Lessor shall be deemed to imply or constitute a further waiver of the same covenant or condition or of any other covenant or condition of this Lease. Whenever in this Lease Lessor reserves or is given the right and power to give or withhold its consent to any action on the part of Lessee, such right and power shall not be exhausted by the exercise on one or more occasions, but shall be a continuing right and power for the entire Term.

**22.4 Attorneys' Fees.** If a dispute arises as to whether either Party is in breach of this Lease, the substantially prevailing Party shall be awarded reasonable attorney fees and costs in any suit, action or proceeding, including without limitation trial, arbitration, mediation, or appeal, as awarded by the court, arbiter or mediator.

**22.5 Relationship.** The sole purpose of this Agreement is to establish a lessor/lessee relationship between the Parties. There is no relationship of employer-employee, principal-agent, joint venture or partnership established by this Agreement. There are no intended or incidental third party beneficiaries of this Agreement.

**22.6 Governing Law.** This Agreement shall be governed by and construed in accordance with the laws of the State of Idaho. In the event of a dispute, appropriate venue for resolution of that dispute shall be in Latah County, Idaho.

**22.7 Regulatory Requirements.** Lessor and Lessee will operate at all times in compliance with federal, state, and local law, rules and regulations. Lessee will comply with the policies, rules and regulations of Lessor, applicable accrediting standards, and the current community standard of care. Each Party has made reasonable efforts to confirm that the execution of this Agreement does not violate applicable law. The Parties enter into this Agreement with the intent of conducting their relationship in full compliance with applicable state, federal, and local law, including without limitation, Medicare/Medicaid anti-fraud and abuse provisions. The Parties' rights and obligations under this Lease are not conditioned on the volume or value of referrals or other business generated between the Parties, and nothing in this Lease shall require either Party to refer business to the other Party. In the event either Party determines that this Lease would violate any applicable law or regulation or subject either Party to fines, penalties, or other adverse action by a government agency, the Parties shall immediately attempt in good faith to renegotiate the terms of this Lease to resolve any such concerns. If such concerns cannot be resolved, either Party shall have the right to immediately terminate the Lease by giving Notice to the other Party.

**22.8 Construction.** The language in all parts of this Agreement shall, in all cases, be construed simply according to its fair meaning and not more favorably toward either Party.

**22.9 Proper Authorization.** If Lessee is a corporation, each individual executing this Lease on behalf of said corporation represents and warrants that he is duly authorized to execute and deliver this Lease on behalf of said corporation in accordance with a duly adopted resolution of the Board of Directors of said corporation or in accordance with the Bylaws of said corporation, and that this Lease is binding upon said corporation in accordance with its terms. If Lessee is a corporation, Lessee shall prior to or concurrently with the execution of this Lease, deliver to Lessor a certified copy of meeting minutes of the Board of Directors of said corporation authorizing or ratifying the execution of this Lease.

**22.10 Entire Agreement.** This instrument along with any exhibits and attachments hereto constitutes the entire agreement between Lessor and Lessee relative to the Premises and this Agreement and the exhibits and attachments may be altered, amended or revoked only by an instrument in writing signed by both Lessor and Lessee. It is understood that there are no oral agreement or representations between the Parties hereto affecting this Lease, and this Lease supersedes and cancels any and all previous negotiations, representations between the Parties hereto affecting this Lease, and this Lease supersedes and cancels any and all previous negotiations, arrangements, brochures, agreement or representations and understanding, if any, between the Parties hereto or displayed by Lessor to Lessee with respect to the subject matter thereof, and none thereof shall be used to interpret or construe this Lease. There are no other representations or warranties

between the Parties or the Parties and their agents or representatives and all reliance with respect to representations is solely upon the representations and agreement contained in this document.

**22.11 Counterparts.** This Lease may be executed in any number of counterparts and by different Parties hereto in separate counterparts, each of which when so executed shall be deemed to be an original and all of which taken together shall constitute but one and the same agreement. Delivery of an executed counterpart of this Lease by facsimile shall be equally as effective as delivery of a manually executed counterpart.

**22.12 Nondiscrimination and Affirmative Action.** Lessor and Lessee shall not discriminate against any employee or applicant for employment in the performance of this Lease, with respect to tenure, terms, conditions or privileges of employment, or any matter directly or indirectly related to employment, because of race, sex, color, religion, age, status as disabled or a veteran, or physical or mental handicaps, national origin or ancestry, or as otherwise required by state or federal law. Breach of this covenant may be regarded as a material breach of this Lease. Lessor and Lessee certify that they do not, and will not maintain segregated facilities or accommodations on the basis of race, color, religion or national origin. Regarding any position for which an employee or an applicant is qualified, the Lessor and Lessee agree to take affirmative action to employ, train, advance in employment, and retain individuals in accordance with applicable laws and regulations.

***[SIGNATURE PAGE FOLLOWS]***

IN WITNESS WHEREOF, each of the Parties have executed this Lease to be made effective as of the Effective Date.

**BOARD OF REGENTS OF THE UNIVERSITY OF  
IDAHO**

**GRITMAN MEDICAL PARK, LLC**

By: \_\_\_\_\_

By: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_

Title: \_\_\_\_\_



**EXHIBIT A:**  
**Floor Plan / Layout**

See attached.

**EXHIBIT B:**  
**Schedule of Specifications**

See attached.

**EXHIBIT C:**  
**Approved Signage**

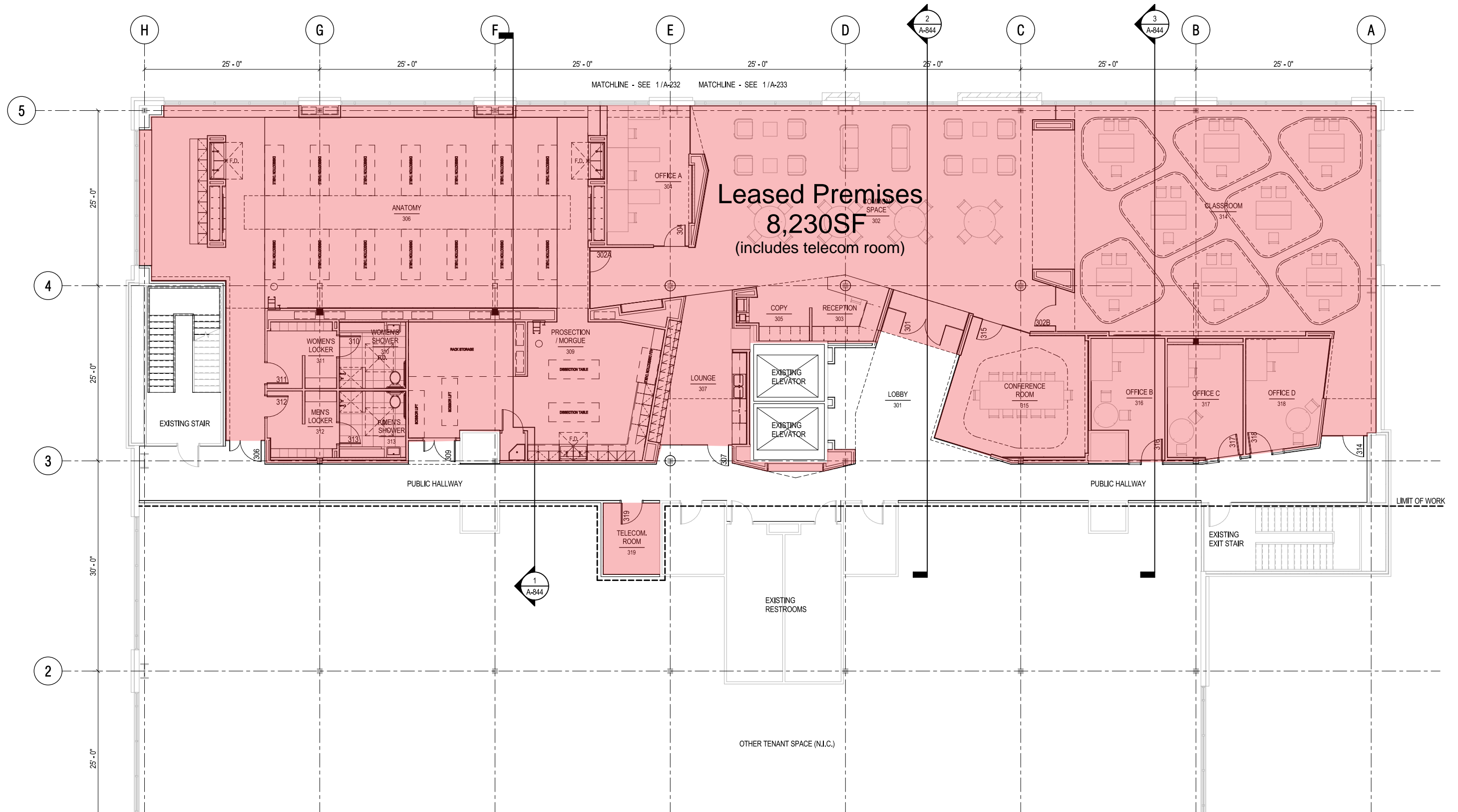
See attached.

**EXHIBIT D:**  
**Covenants, Conditions, Restrictions and Easements**

See attached.

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# EXHIBIT A-0



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University of Idaho  
**WWAMI Medical Education Program**  
Moscow, Idaho

Gritman Medical Office Building  
**Third Floor Tenant Improvements**

**Lease Exhibit "B"**  
**Date, March 10, 2017**

Table of Contents

Exhibit "B.1" – 35% TI Fit-Out Pricing Set - Plans, dated December, 06, 2016

Exhibit "B.2" - 35% TI Fit-Out Pricing Set - Specifications, dated December, 09, 2016

Exhibit "B.3" – Value Engineering Pricing Options and Summary, dated March 9, 2017





University of Idaho

WWAMI

700 S MAIN ST  
MOSCOW, ID 83843

CLIENT  
**UNIVERSITY OF IDAHO**

875 PERIMETER DRIVE  
MOSCOW, ID 83844

MEP ENGINEERS  
**MW CONSULTING ENGINEERS**

N. 222 WALL STREET, SUITE 200  
SPOKANE, WA 99201  
T. 509.838.9020  
MWENGINEERS.COM

ARCHITECTS  
**FLAD ARCHITECTS**

801 SECOND AVENUE, SUITE 315  
SEATTLE, WA 98104  
T. 206.582.5805  
FLAD.COM

STRUCTURAL ENGINEERS  
**DCI ENGINEERS**

707 W 2ND AVENUE  
SPOKANE, WA 99201  
T. 509.455.4448  
DCI-ENGINEERS.COM

EXHIBIT "B.1"

SHEET INDEX - ARCHITECTURAL	
SHEET NUMBER	SHEET NAME
A-001	COVER SHEET AND INDEX
A-003	GENERAL NOTES, ABBREVIATIONS & SYMBOLS
A-231	LEVEL 3 FLOOR PLAN / REFLECTED CEILING PLAN
A-232	ENLARGED FLOOR PLAN - LEVEL 3 NORTH
A-233	ENLARGED FLOOR PLAN - LEVEL 3 SOUTH
A-331	ENLARGED CEILING PLAN - LEVEL 3 - NORTH
A-332	ENLARGED CEILING PLAN - LEVEL 3 - SOUTH
A-840	INTERIOR ELEVATIONS
A-841	INTERIOR ELEVATIONS
A-842	INTERIOR ELEVATIONS
A-843	INTERIOR ELEVATIONS
A-844	INTERIOR SECTIONS
A-850	3D REPRESENTATIONS
A-901	PARTITION TYPES A, C & F
A-910	PARTITION DETAILS
A-920	INTERIOR DETAILS
A-930	DOOR SCHEDULE/FINISH SCHEDULE

SHEET INDEX-MECHANICAL	
SHEET NUMBER	SHEET NAME
M-001	LEGENDS & ABBREVIATIONS - MECHANICAL
M-002	SCHEDULES - MECHANICAL
M-231	LEVEL 3 FLOOR PLAN - HVAC

SHEET INDEX-PLUMBING	
SHEET NUMBER	SHEET NAME
M - 232	LEVEL 3 FLOOR PLAN - PLUMBING

SHEET INDEX-GENERAL ELECTRICAL	
SHEET NUMBER	SHEET NAME
E-001	LEGENDS & ABBREVIATIONS - ELECTRICAL
E-002	EQUIPMENT SCHEDULES - ELECTRICAL
E-231	LEVEL 3 FLOOR PLAN - ELECTRICAL
E-701	ONE LINE DIAGRAM - ELECTRICAL
EL-231	LEVEL 3 REFLECTED CEILING PLAN - LIGHTING
S-231	LEVEL 3 FLOOR PLAN - SYSTEMS
T-231	LEVEL 3 FLOOR PLAN - TELECOMMUNICATIONS

SHEET INDEX-GENERAL STRUCTURAL	
SHEET NUMBER	SHEET NAME
S - 231	LEVEL 3 FLOOR FRAMING & ROOF FRAMING PLAN

TI FIT-OUT  
PRICING SET

06 DECEMBER 2016



ARCHITECTURAL ABBREVIATIONS

Table of architectural abbreviations with columns for symbol, abbreviation, and full name. Includes symbols like @, A, AB, ACC, etc.

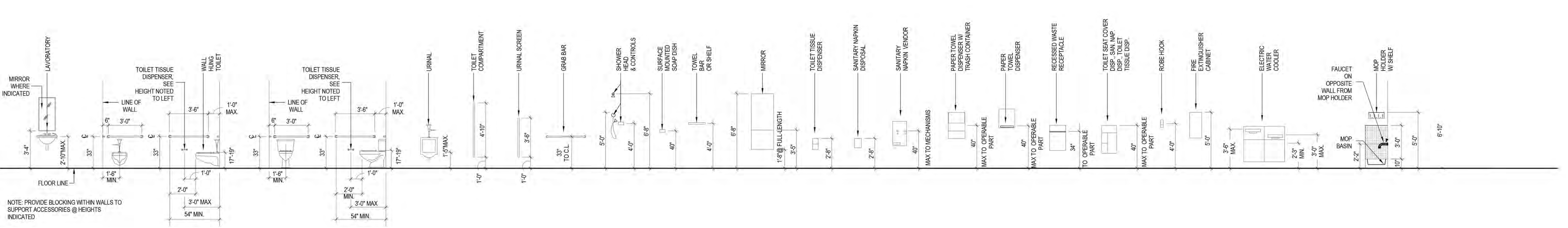
ARCHITECTURAL PLAN LEGEND

Table of architectural plan legend symbols and their meanings. Includes symbols like A, X-XXX TYP, 101, etc.

ARCHITECTURAL MATERIAL LEGEND

Table of architectural material legend symbols and their corresponding material names. Includes symbols for UNDISTURBED EARTH, GRANULAR DRAINAGE MATERIAL, etc.

MOUNTING HEIGHTS



Flad Architects



Stamps & Approvals

Project Key Plan

NOT FOR CONSTRUCTION

Rev Date Description

University of Idaho

University of Idaho WWAMI

700 S MAIN ST, MOSCOW, ID 83843

WWAMI GRITMAN BUILDING

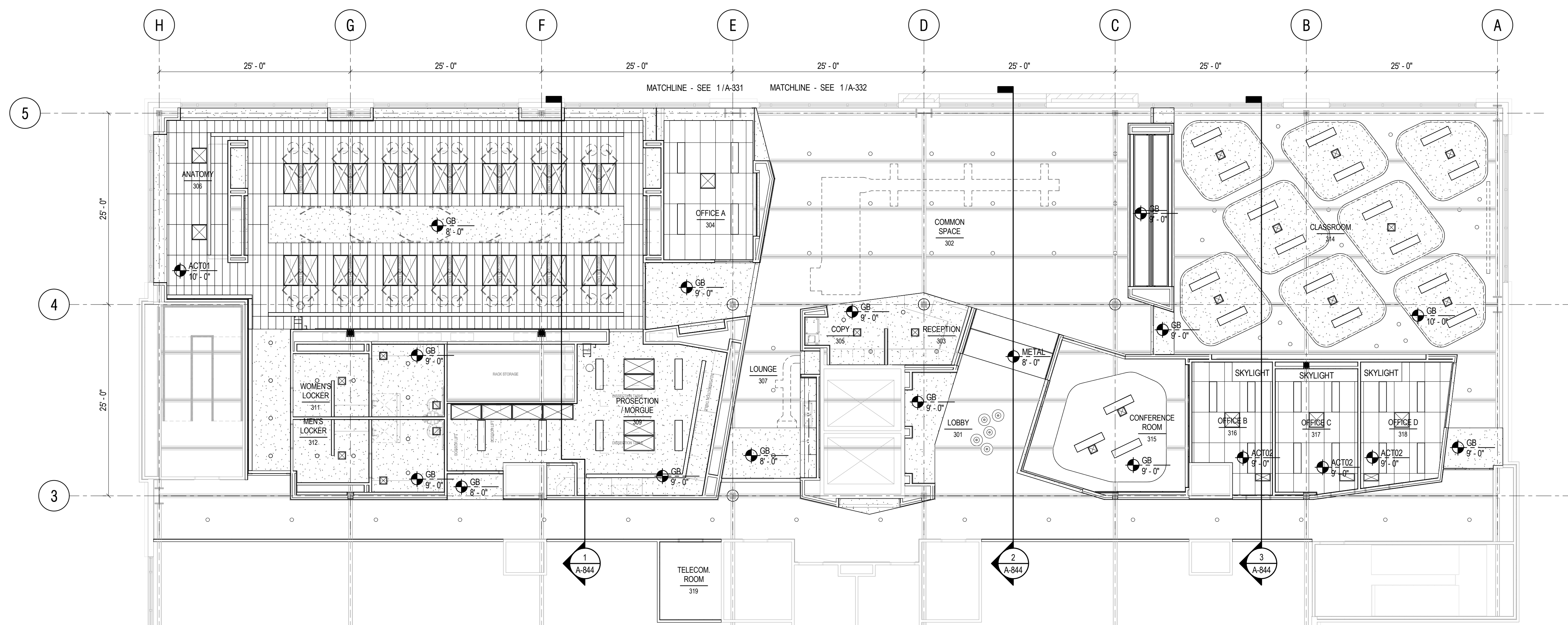
Project Phase DESIGN DEVELOPMENT

Date 12/06/16 Drawn By FLAD

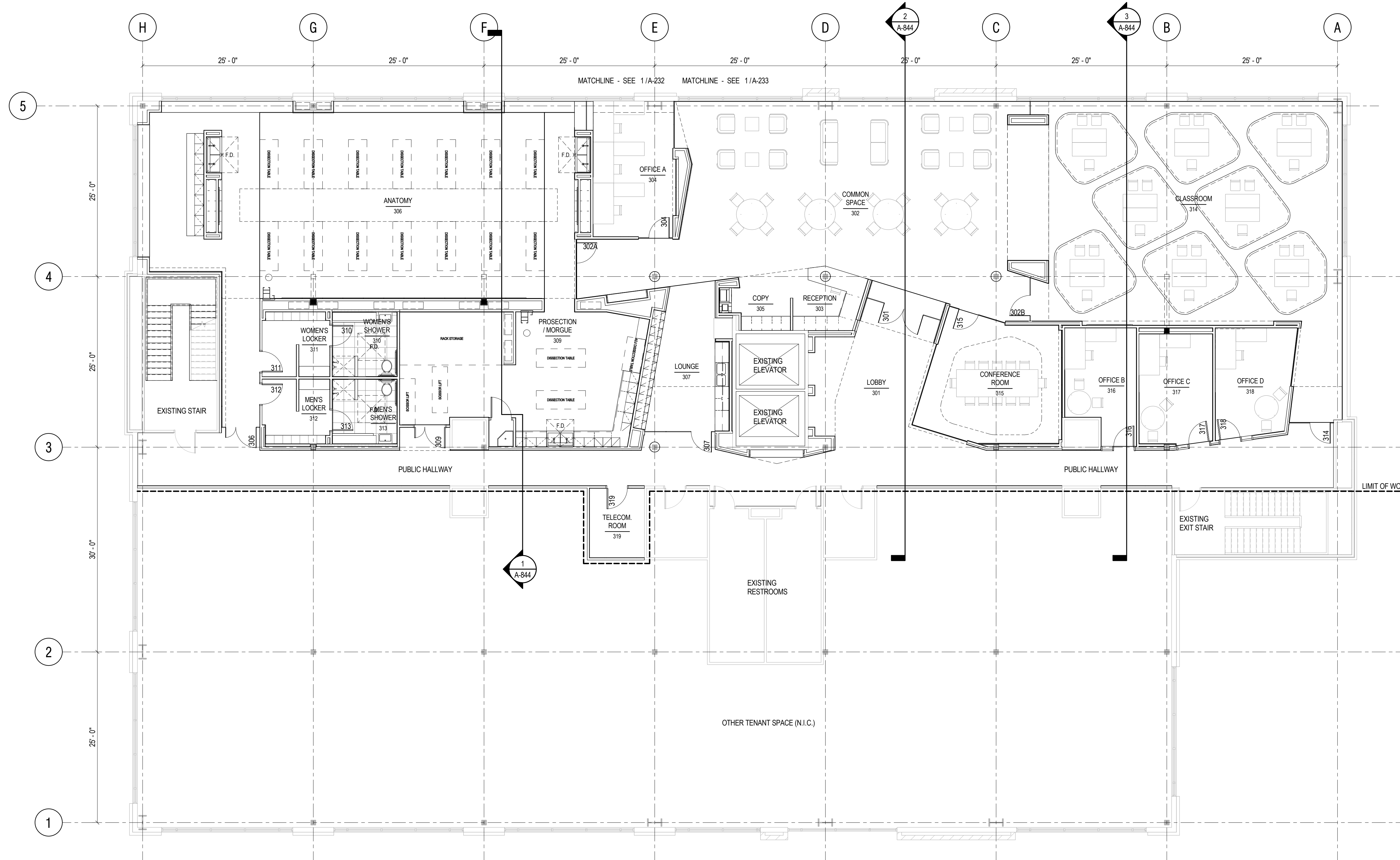
Project Number 15788-01 Checked By FLAD

Sheet Title GENERAL NOTES, ABBREVIATIONS & SYMBOLS

Sheet Number A-003 Rev. No.

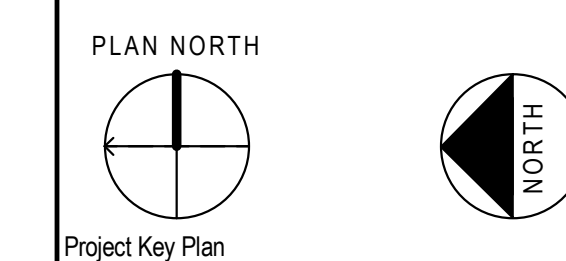
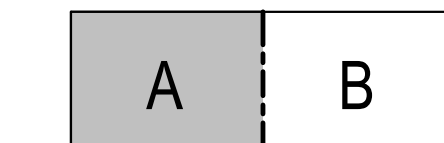


2 REFLECTED CEILING PLAN - LEVEL 3  
1/8" = 1'-0"



1 FLOOR PLAN - LEVEL 3  
1/8" = 1'-0"

Stamps & Approvals



NOT FOR CONSTRUCTION

Rev Date Description

University of Idaho

University of Idaho WWAMI

700 S MAIN ST, MOSCOW, ID 83843

WWAMI GRITMAN BUILDING

Project Phase DESIGN DEVELOPMENT

Date 12/06/16 Drawn By FLAD

Project Number 15788-01 Checked By FLAD

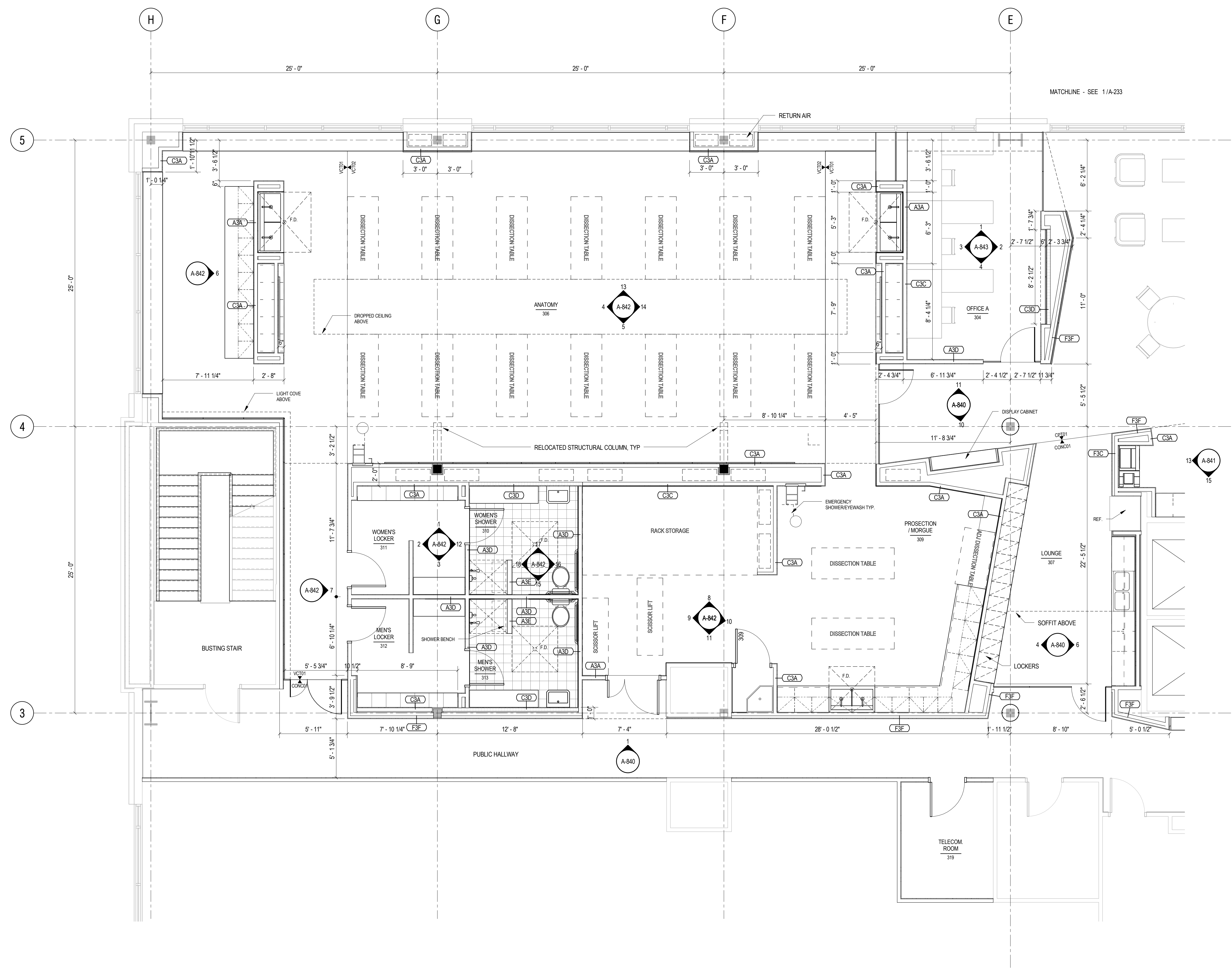
Sheet Title LEVEL 3 FLOOR PLAN / REFLECTED CEILING PLAN

Sheet Number A-231 Rev. No.

GENERAL SHEET NOTES

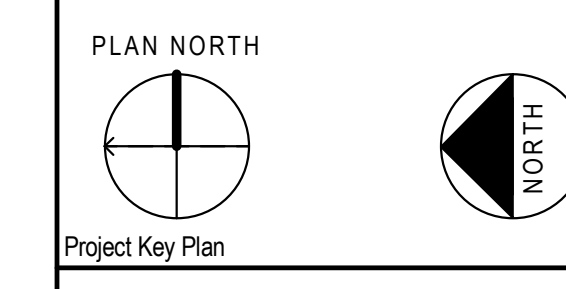
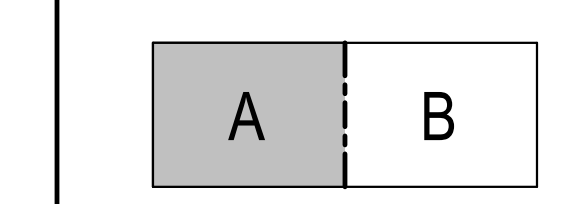
1. FF-E SHOWN FOR REFERENCE ONLY - N.I.C.
2. PROVIDE GMB FINISH AND FLOORING C3A AS REQUIRED AT EXISTING EXTERIOR WALL.
3. AT ALL FLOOR DRAINS (FD) REMOVE 1" EXISTING CONCRETE SLAB; ADD BACK TOPPING SLAB SLOPED TO DRAIN AS SHOWN
4. PAINT ALL EXPOSED STRUCTURE





**1 FLOOR PLAN - LEVEL 3 NORTH**  
 1/4" = 1'-0"

Stamps & Approvals



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Rev	Date	Description

Project Title  
**University of Idaho**

**University of Idaho WWAMI**

700 S MAIN ST, MOSCOW, ID 83843

**WWAMI**  
 GRITMAN BUILDING

Project Phase  
**DESIGN DEVELOPMENT**

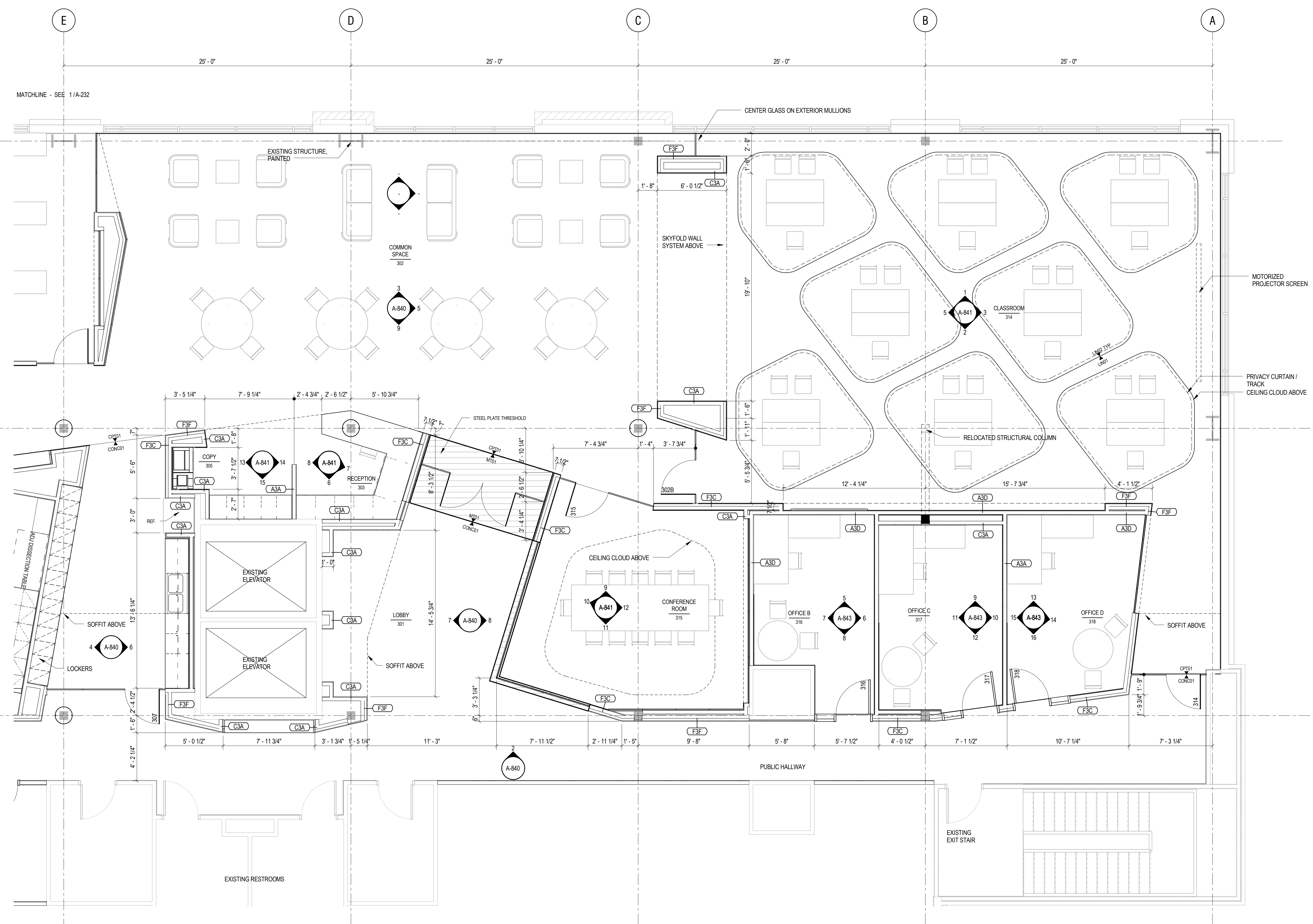
Date 12/06/16	Drawn By FLAD
Project Number 15788-01	Checked By FLAD

Sheet Title  
**ENLARGED FLOOR PLAN - LEVEL 3 NORTH**

Sheet Number  
**A-232**

**GENERAL SHEET NOTES**

- FF-E SHOWN FOR REFERENCE ONLY - N.I.C.
- PROVIDE GMB FINISH AND FLOORING C3A AS REQUIRED AT EXISTING EXTERIOR WALL.
- AT ALL FLOOR DRAINS (FD) REMOVE 1" EXISTING CONCRETE SLAB; ADD BACK TOPPING SLAB SLOPED TO DRAIN AS SHOWN
- PAINT ALL EXPOSED STRUCTURE



**1 FLOOR PLAN - LEVEL 3 SOUTH**  
 1/4" = 1'-0"

**GENERAL SHEET NOTES**

- FF-E SHOWN FOR REFERENCE ONLY - N.I.C.
- PROVIDE GMB FINISH AND FURRING C3A AS REQUIRED AT EXISTING EXTERIOR WALL.
- AT ALL FLOOR DRAINS (FD) REMOVE 1" EXISTING CONCRETE SLAB; ADD BACK TOPPING SLAB SLOPED TO DRAIN AS SHOWN
- PAINT ALL EXPOSED STRUCTURE

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PLAN NORTH

Project Key Plan

**NOT FOR CONSTRUCTION**

Project Title

University of Idaho

**University of Idaho WWAMI**

700 S MAIN ST, MOSCOW, ID 83843

**WWAMI**  
GRITMAN BUILDING

Project Phase

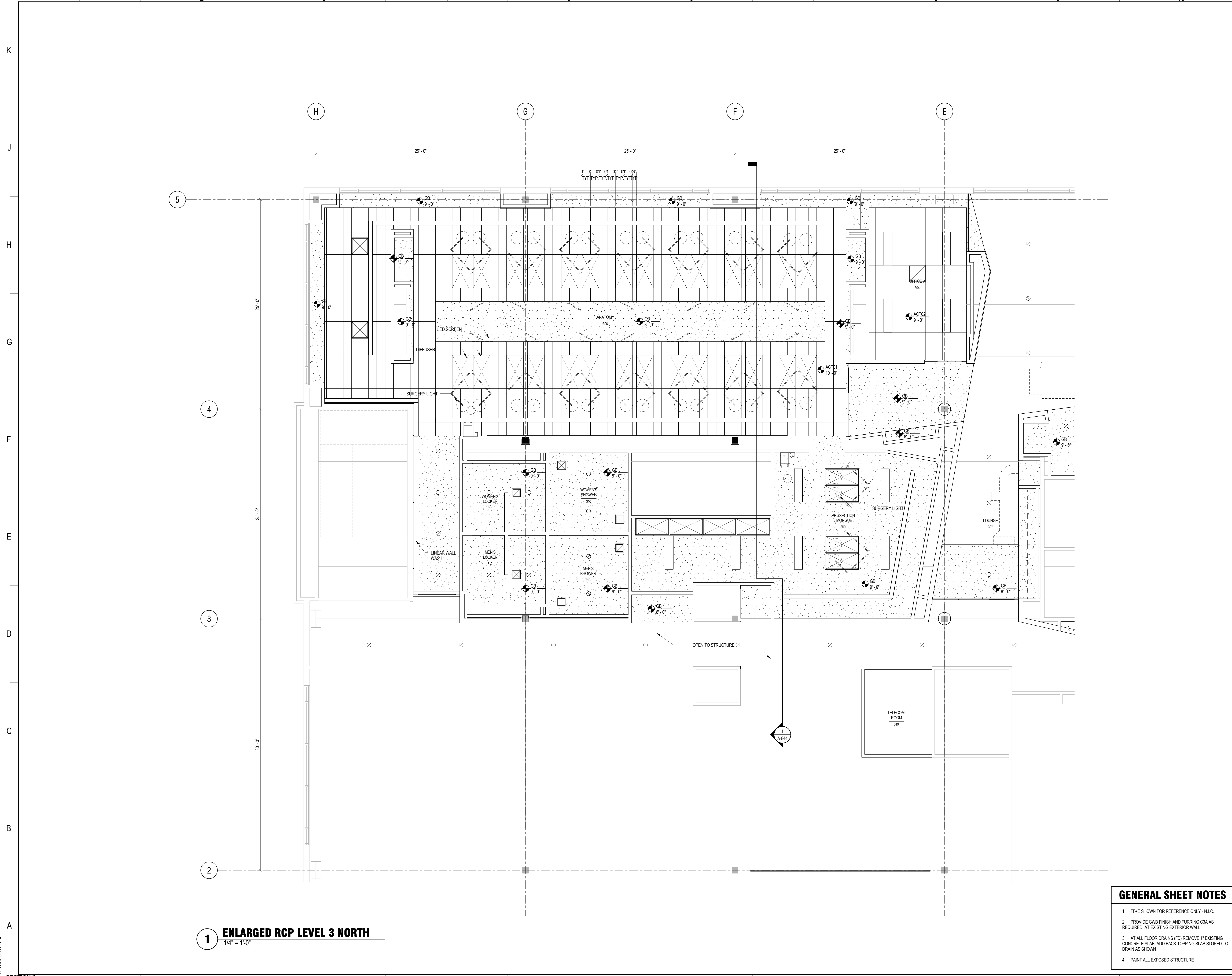
DESIGN DEVELOPMENT

Date: 12/06/16  
 Project Number: 15788-01

Sheet Title

**ENLARGED FLOOR PLAN - LEVEL 3 SOUTH**

Sheet Number: **A-233**  
 Rev. No.

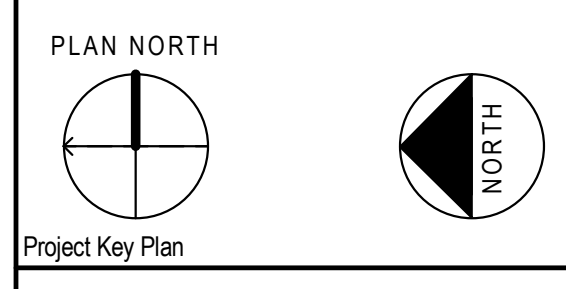
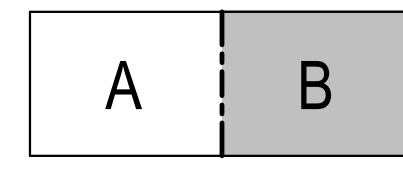


**1 ENLARGED RCP LEVEL 3 NORTH**  
1/4" = 1'-0"

**GENERAL SHEET NOTES**

- FF-E SHOWN FOR REFERENCE ONLY - N.I.C.
- PROVIDE GWB FINISH AND FURRING C3A AS REQUIRED AT EXISTING EXTERIOR WALL.
- AT ALL FLOOR DRAINS (FD) REMOVE 1" EXISTING CONCRETE SLAB; ADD BACK TOPPING SLAB SLOPED TO DRAIN AS SHOWN
- PAINT ALL EXPOSED STRUCTURE

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**University of Idaho WWAMI**

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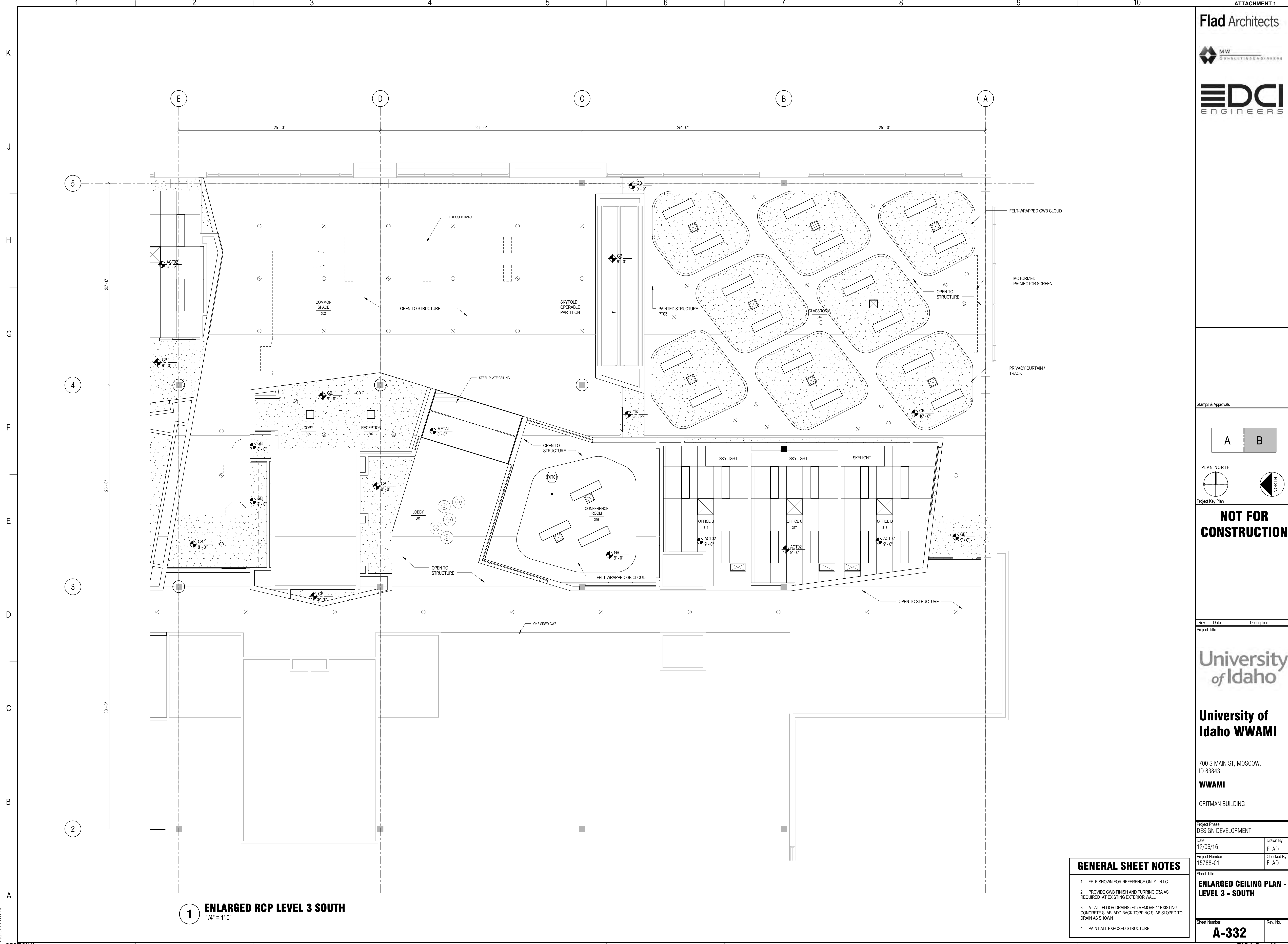
**WWAMI**  
GRITMAN BUILDING

Project Phase  
DESIGN DEVELOPMENT

Date 12/06/16	Drawn By FLAD
Project Number 15788-01	Checked By FLAD

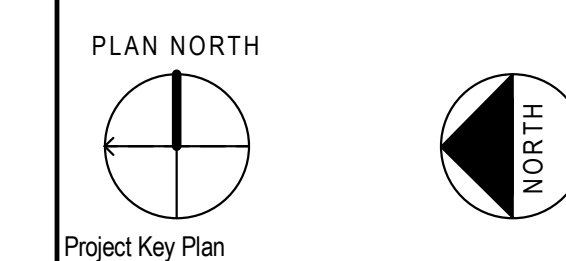
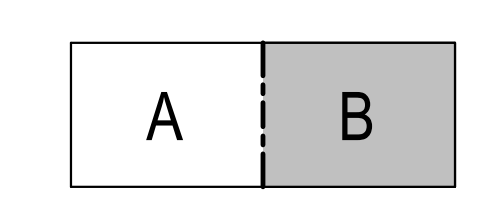
Sheet Title  
**ENLARGED CEILING PLAN - LEVEL 3 - NORTH**

Sheet Number <b>A-331</b>	Rev. No.
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**1 ENLARGED RCP LEVEL 3 SOUTH**  
1/4" = 1'-0"

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Rev	Date	Description

Project Title  
**University of Idaho**

**University of Idaho WWAMI**

700 S MAIN ST, MOSCOW, ID 83843

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GRITMAN BUILDING

Project Phase  
DESIGN DEVELOPMENT

Date 12/06/16	Drawn By FLAD
Project Number 15788-01	Checked By FLAD

Sheet Title  
**ENLARGED CEILING PLAN - LEVEL 3 - SOUTH**

Sheet Number  
**A-332**

**GENERAL SHEET NOTES**

- FF-E SHOWN FOR REFERENCE ONLY - N.I.C.
- PROVIDE GWS FINISH AND FURRING C3A AS REQUIRED AT EXISTING EXTERIOR WALL.
- AT ALL FLOOR DRAINS (FD) REMOVE 1" EXISTING CONCRETE SLAB; ADD BACK TOPPING SLAB SLOPED TO DRAIN AS SHOWN
- PAINT ALL EXPOSED STRUCTURE

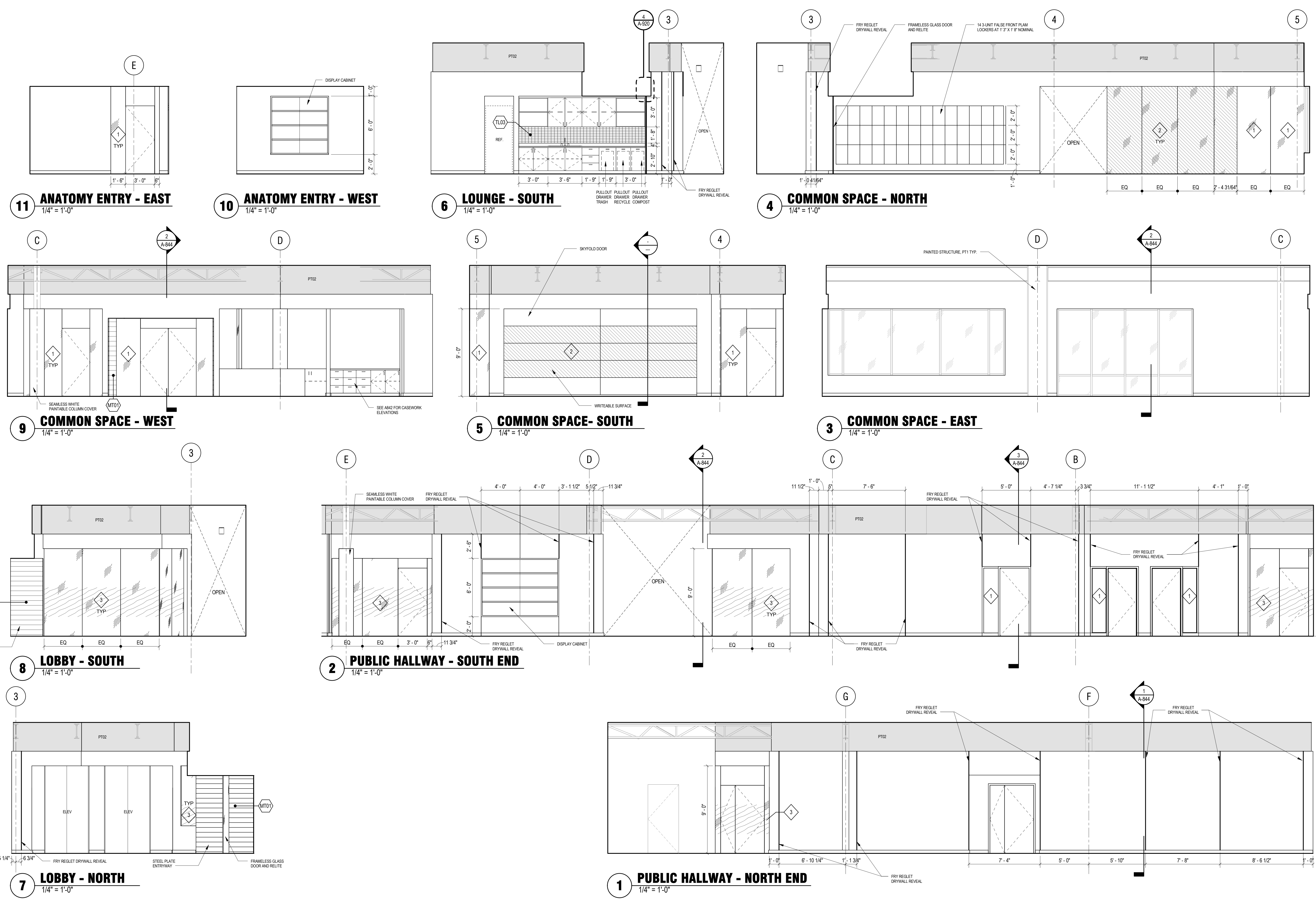


GLAZING LEGEND

- 1 TYP GL01 VISION GLASS CLEAR, TEMPERED
- 2 TYP GL02 BACKPAINTED GLASS, COLOR TBD
- 3 TYP GL03 VISION GLASS CLEAR WITH GRAPHIC, TEMPERED

K  
J  
H  
G  
F  
E  
D  
C  
B  
A

K  
J  
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G  
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C  
B  
A



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GRITMAN BUILDING

Project Phase  
DESIGN DEVELOPMENT

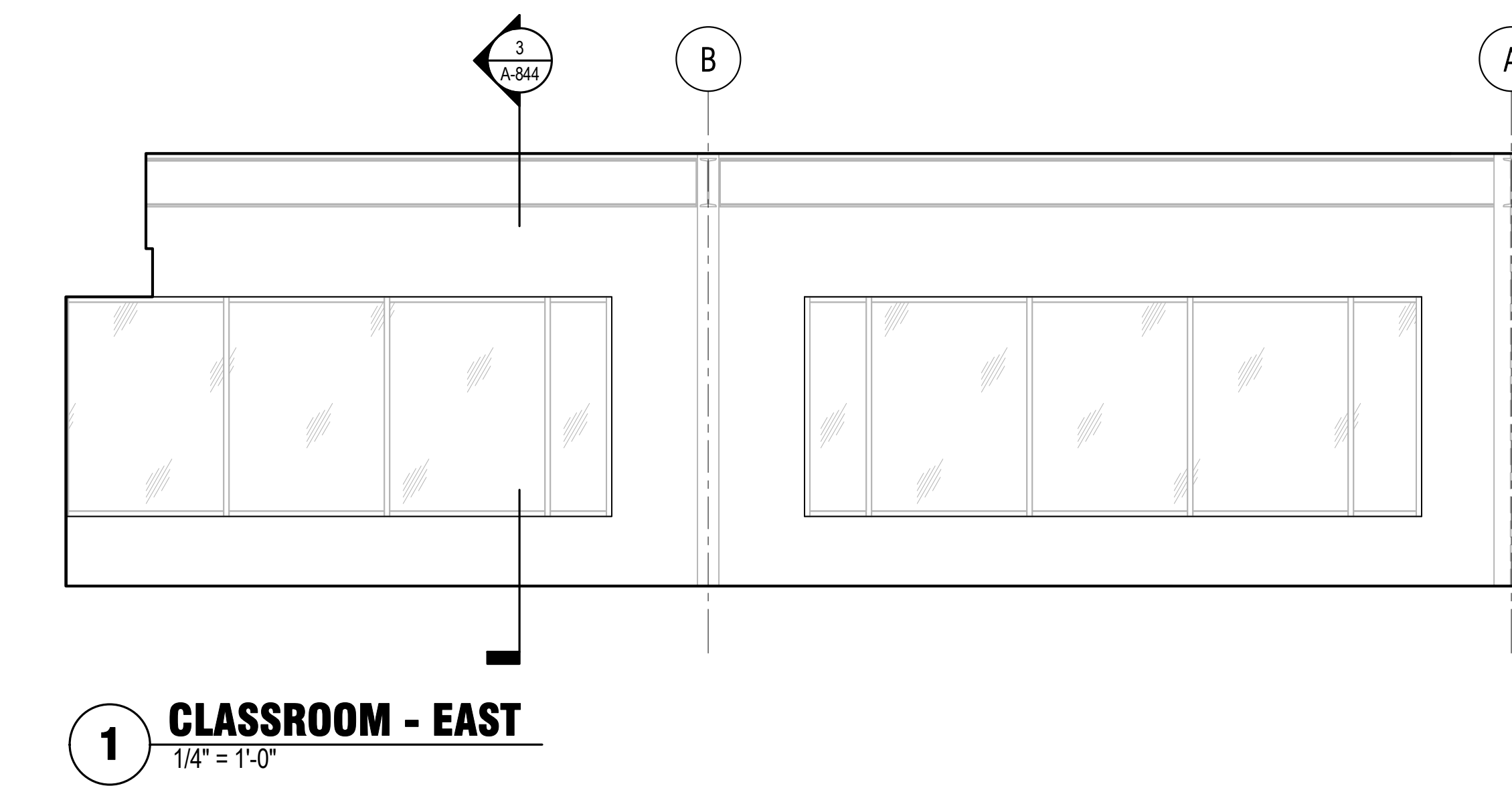
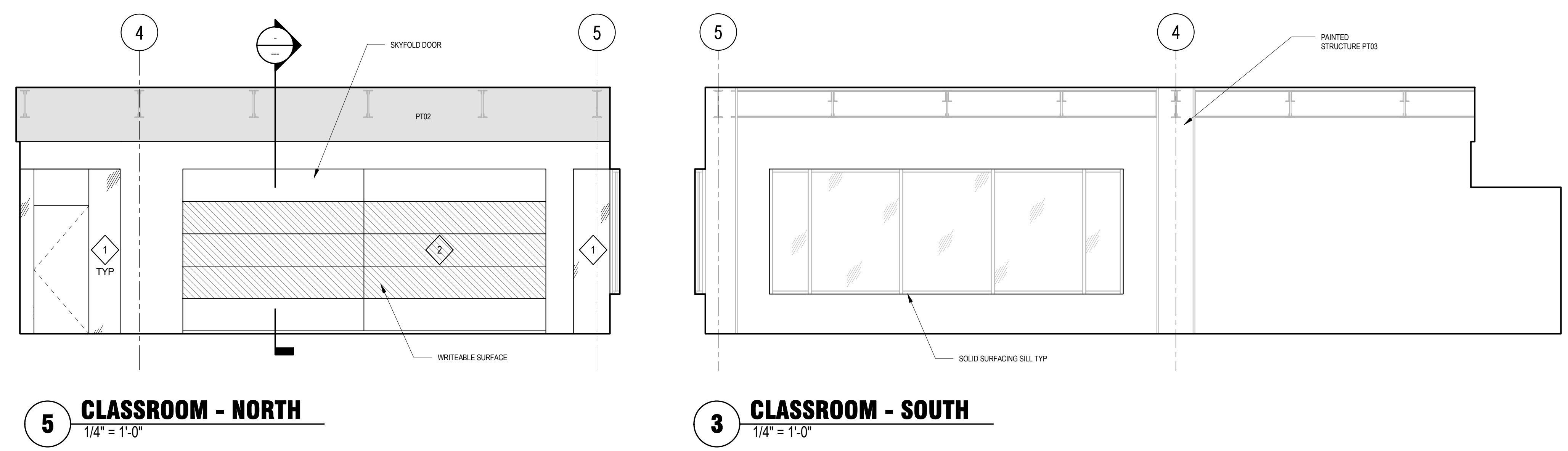
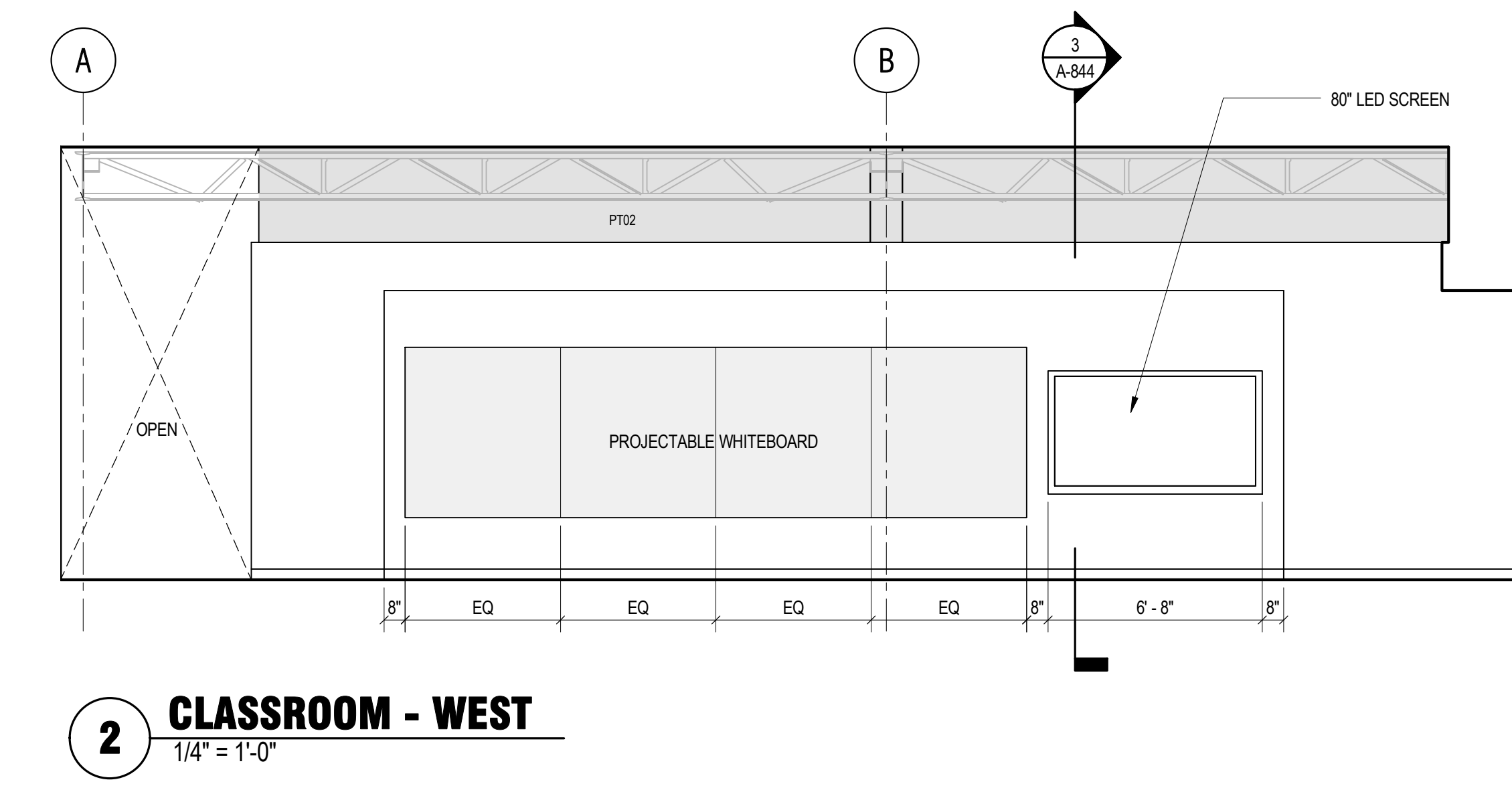
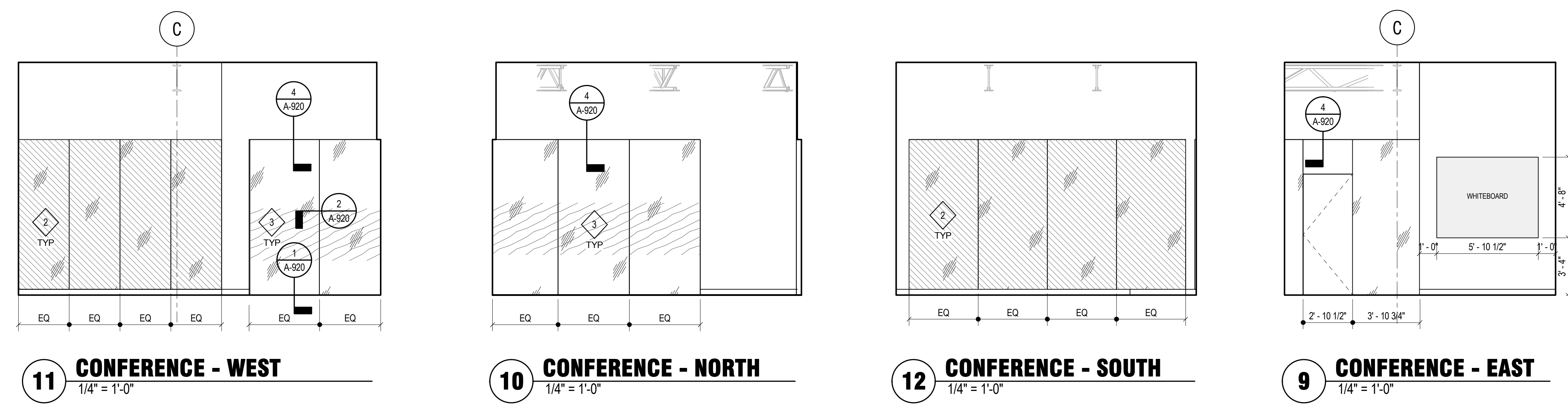
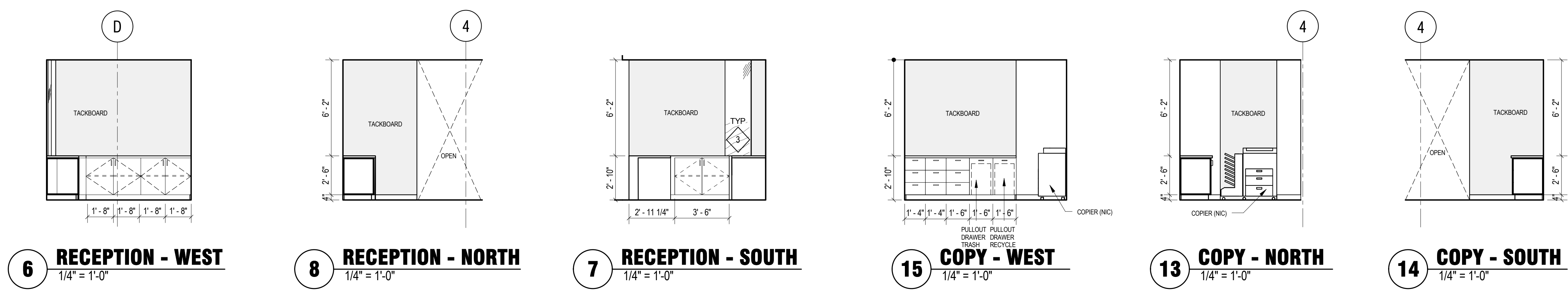
Date 12/06/16	Drawn By FLAD
Project Number 15788-01	Checked By FLAD

Sheet Title  
**INTERIOR ELEVATIONS**

Sheet Number <b>A-840</b>	Rev. No.
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GLAZING LEGEND

- GL01 VISION GLASS CLEAR, TEMPERED
- GL02 BACKPAINTED GLASS, COLOR TBD
- GL03 VISION GLASS CLEAR WITH GRAPHIC, TEMPERED



Stamps & Approvals

Project Key Plan

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Rev	Date	Description

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WWAMI  
GRITMAN BUILDING

Project Phase DESIGN DEVELOPMENT	
Date 12/06/16	Drawn By FLAD
Project Number 15788-01	Checked By FLAD

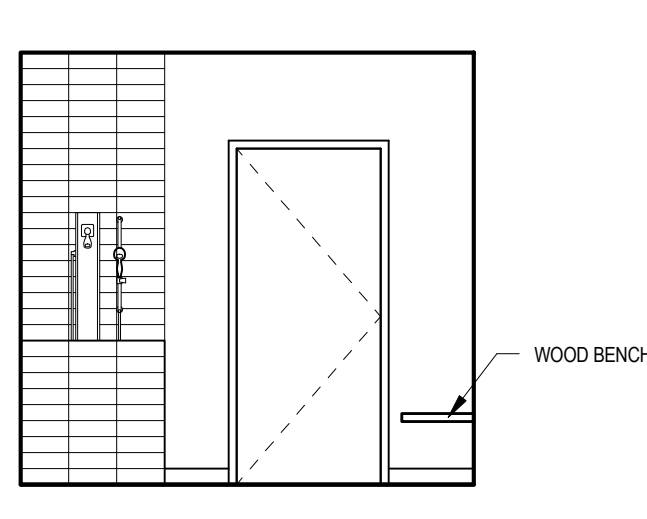
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**INTERIOR ELEVATIONS**

Sheet Number <b>A-841</b>	Rev. No.
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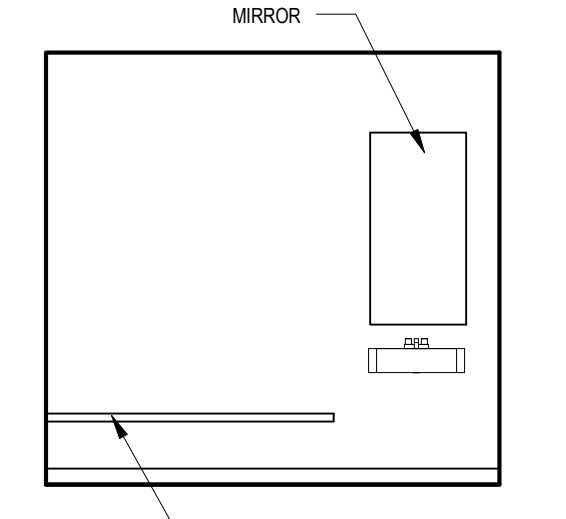


GLAZING LEGEND

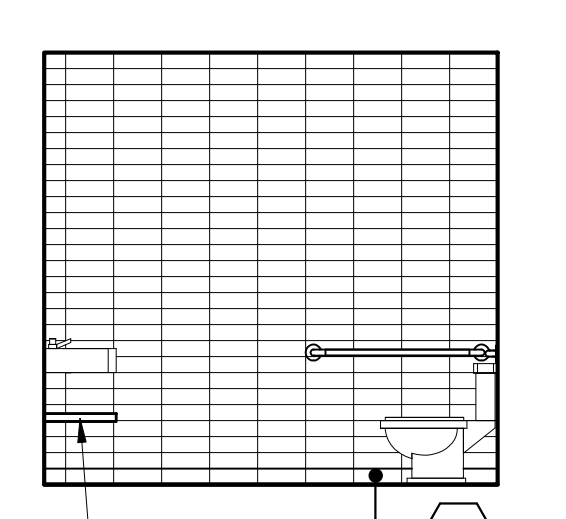
- GL01 VISION GLASS CLEAR, TEMPERED
- GL02 BACKPAINTED GLASS, COLOR TBD
- GL03 VISION GLASS CLEAR WITH GRAPHIC, TEMPERED



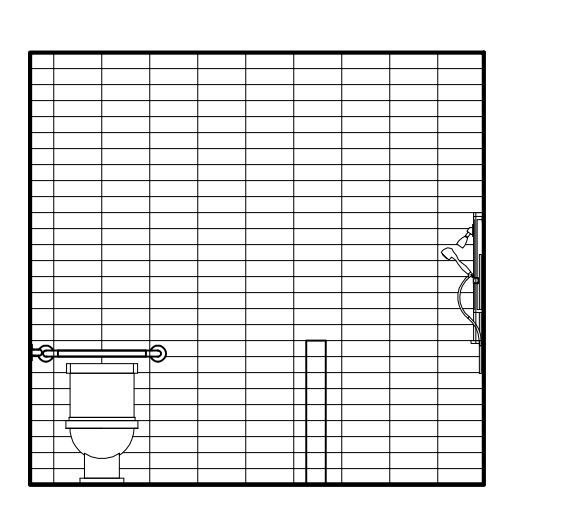
18 WOMEN'S LOCKER - NORTH (MEN'S SIM) 1/4" = 1'-0"



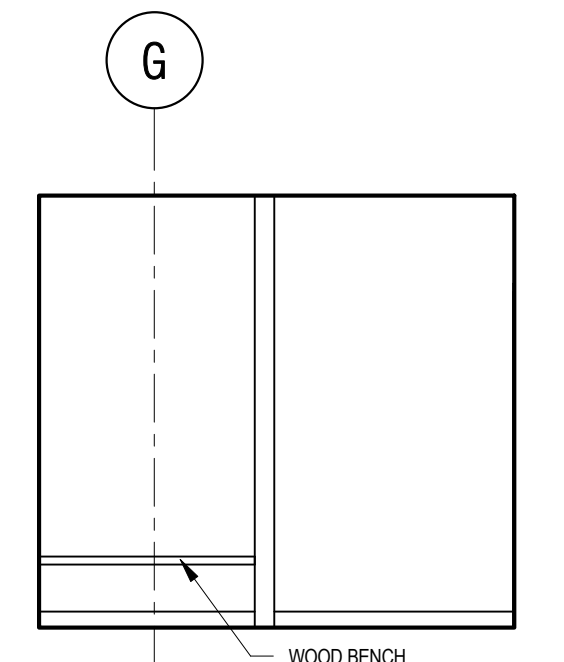
17 WOMEN'S LOCKER - EAST (MEN'S SIM) 1/4" = 1'-0"



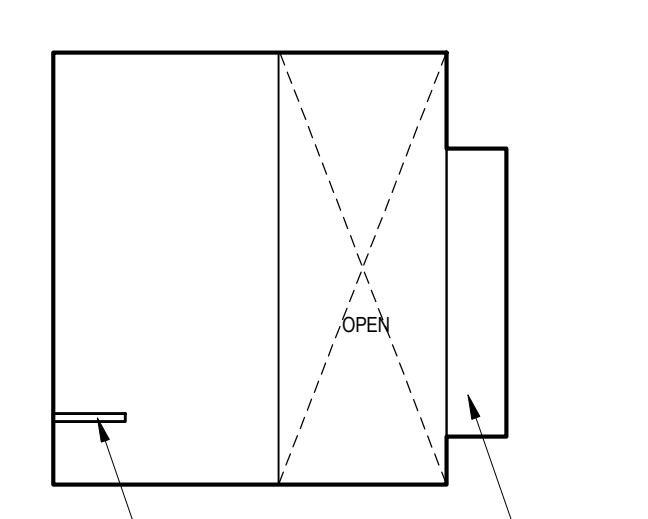
16 WOMEN'S SHOWER - SOUTH (MEN'S SIM) 1/4" = 1'-0"



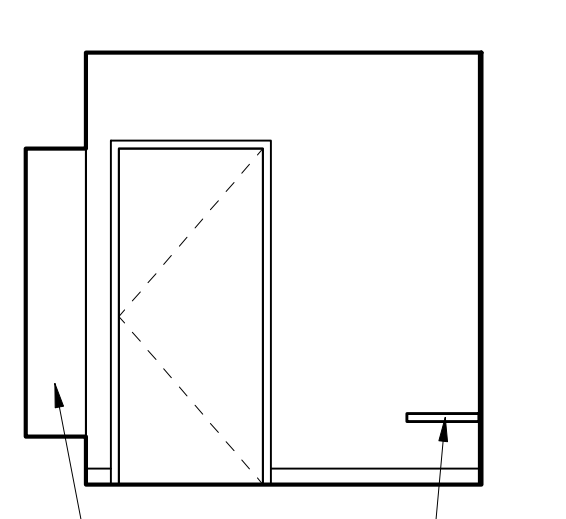
15 WOMEN'S SHOWER - WEST (MEN'S SIM) 1/4" = 1'-0"



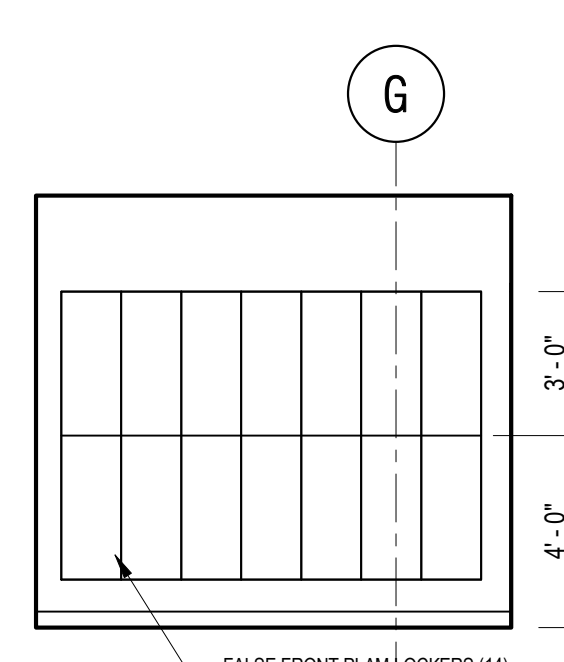
3 WOMEN'S LOCKER - WEST (MEN'S SIM) 1/4" = 1'-0"



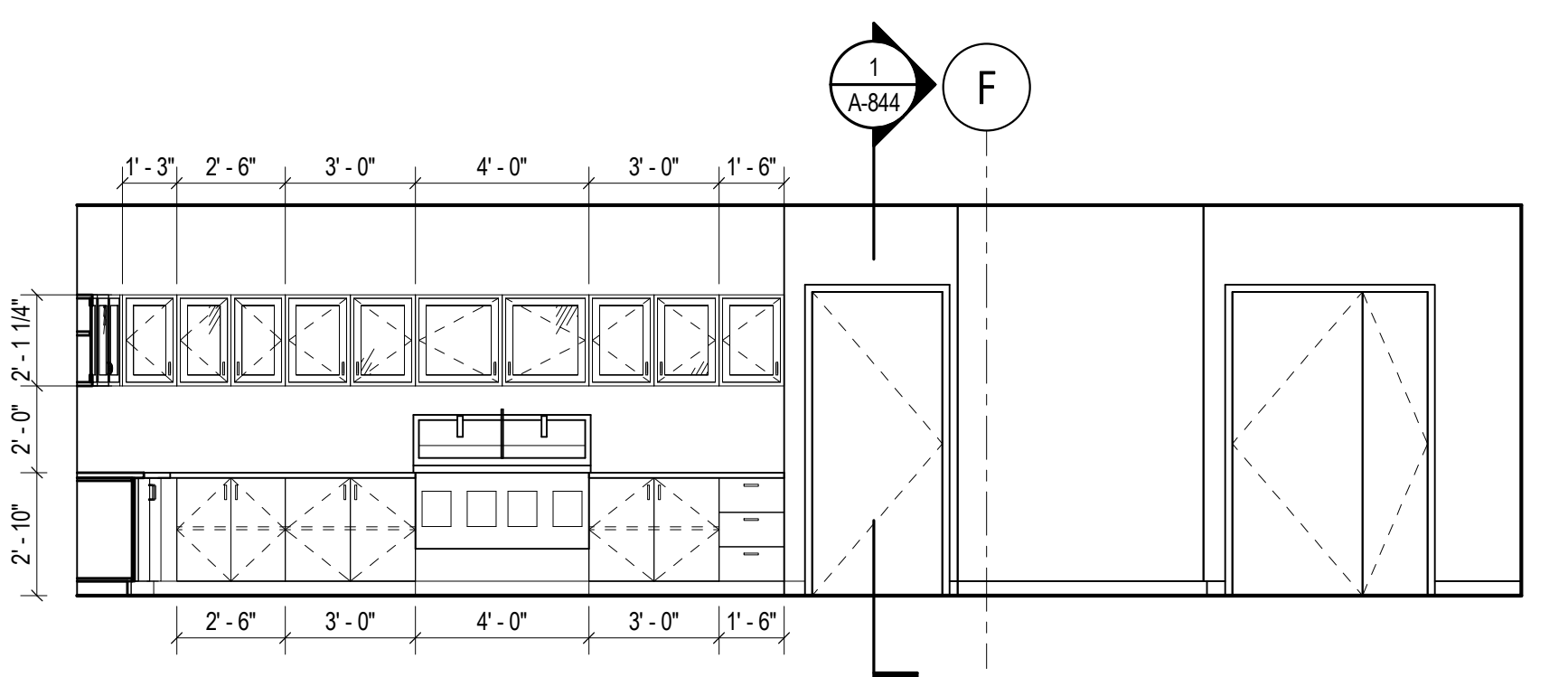
2 WOMEN'S LOCKER - NORTH (MEN'S SIM) 1/4" = 1'-0"



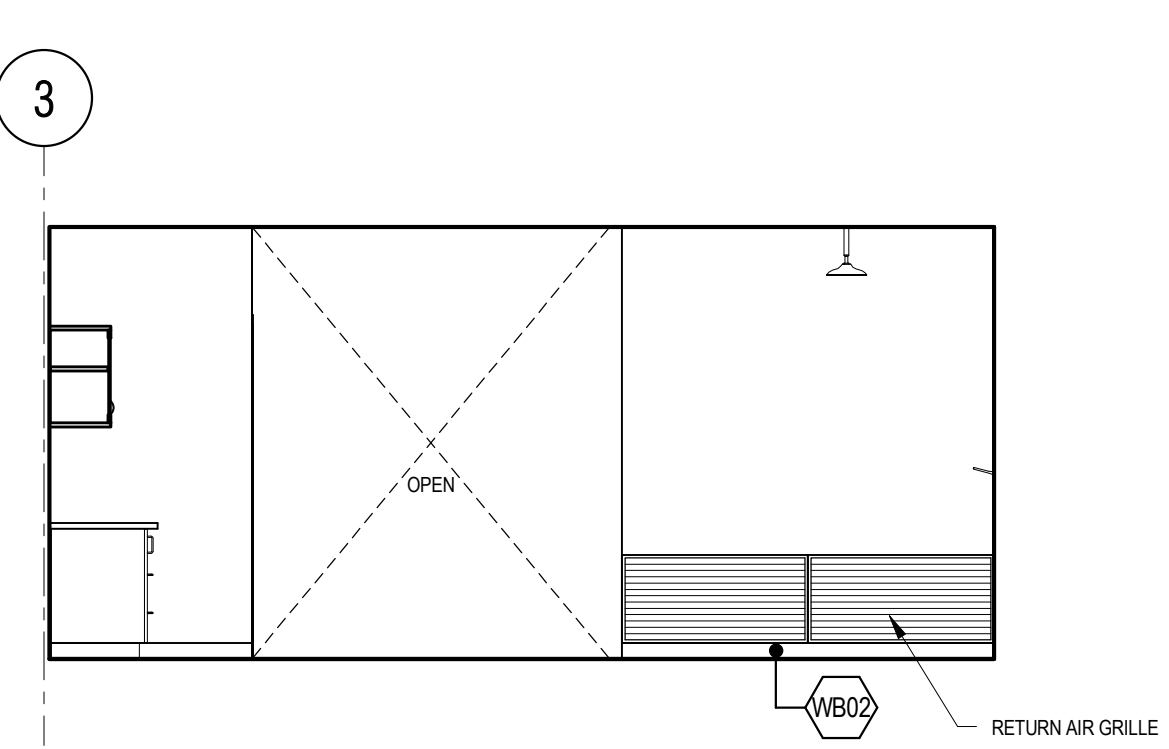
12 WOMEN'S LOCKER - SOUTH (MEN'S SIM) 1/4" = 1'-0"



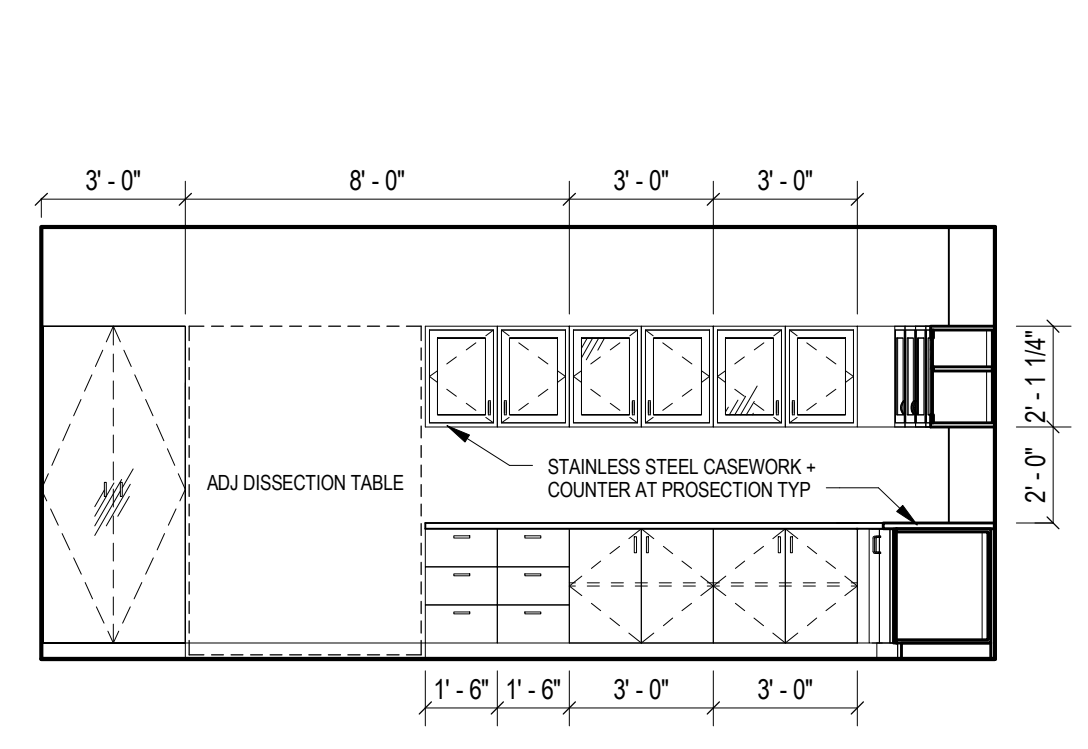
1 WOMEN'S LOCKER - EAST (MEN'S SIM) 1/4" = 1'-0"



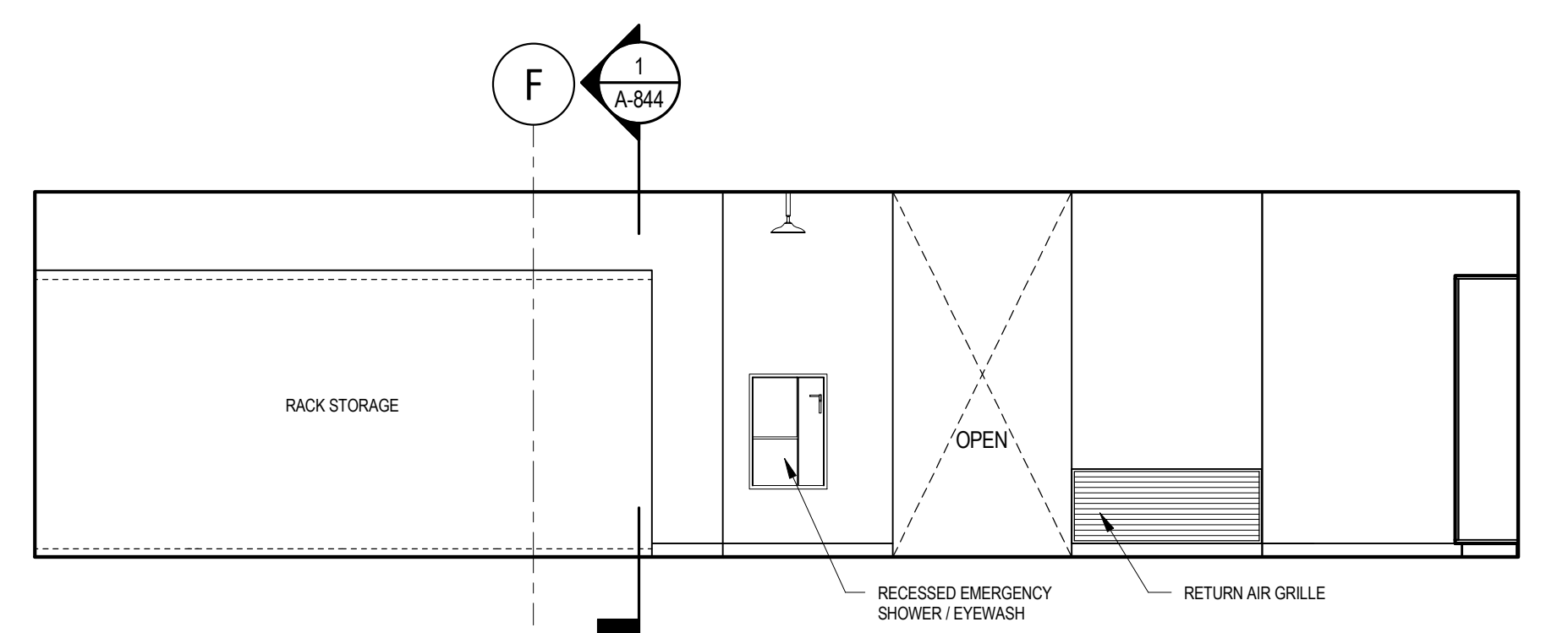
11 PROSECTION - WEST 1/4" = 1'-0"



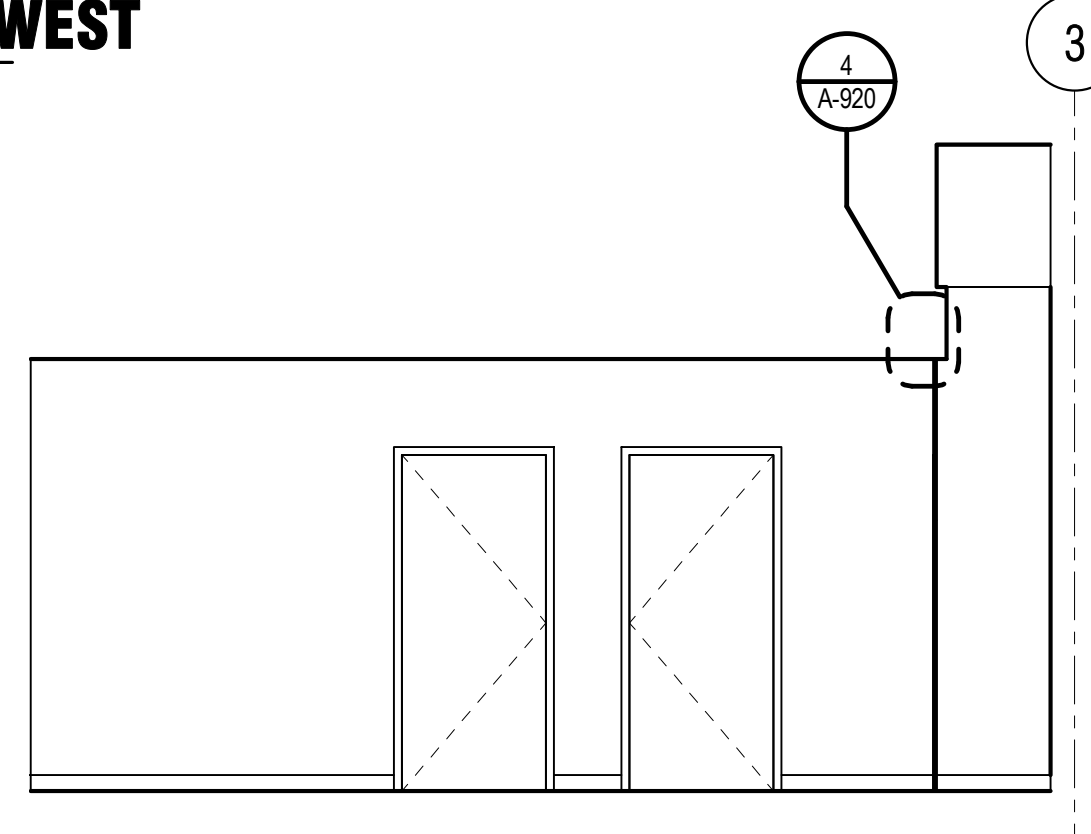
9 PROSECTION - NORTH 1/4" = 1'-0"



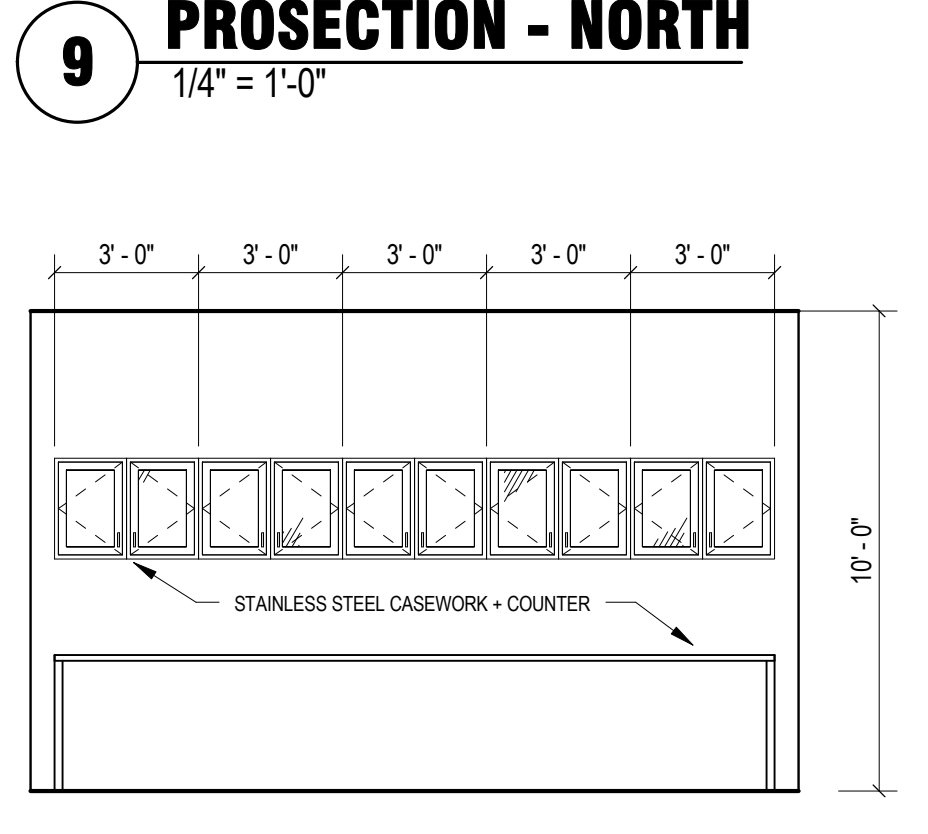
10 PROSECTION - SOUTH 1/4" = 1'-0"



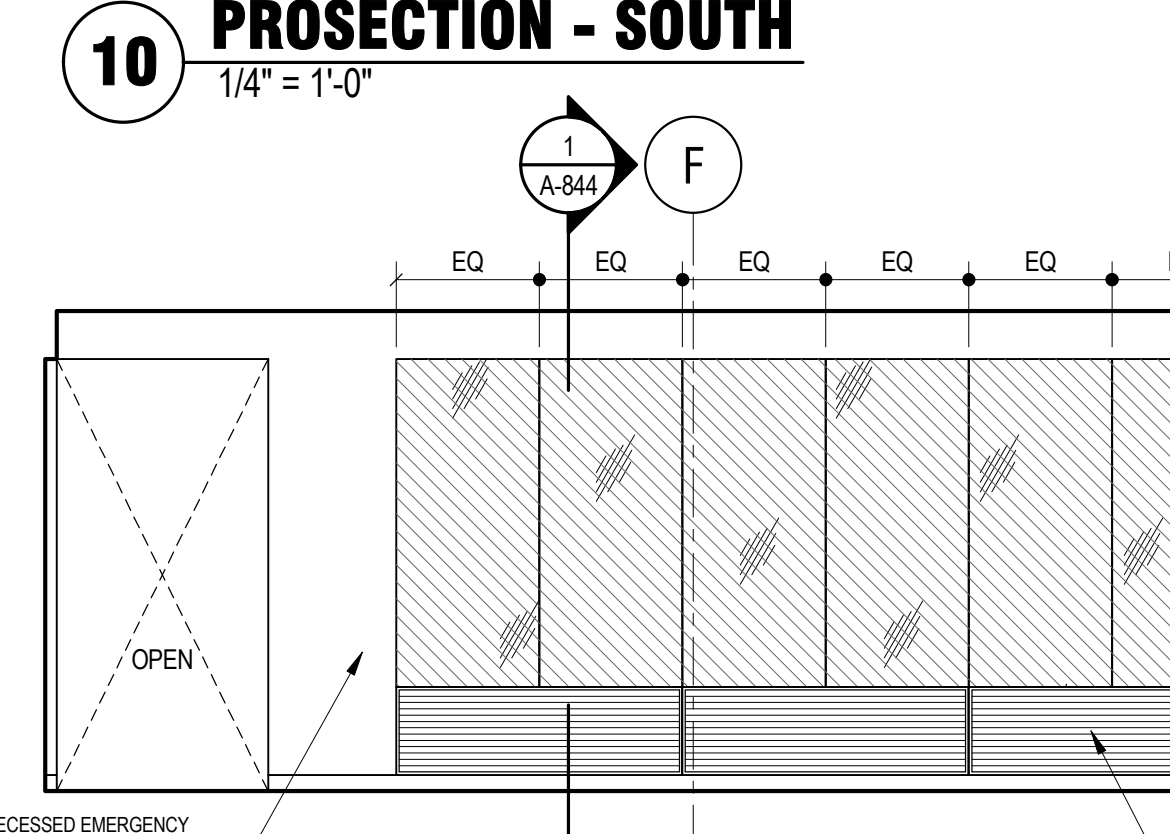
8 PROSECTION - EAST 1/4" = 1'-0"



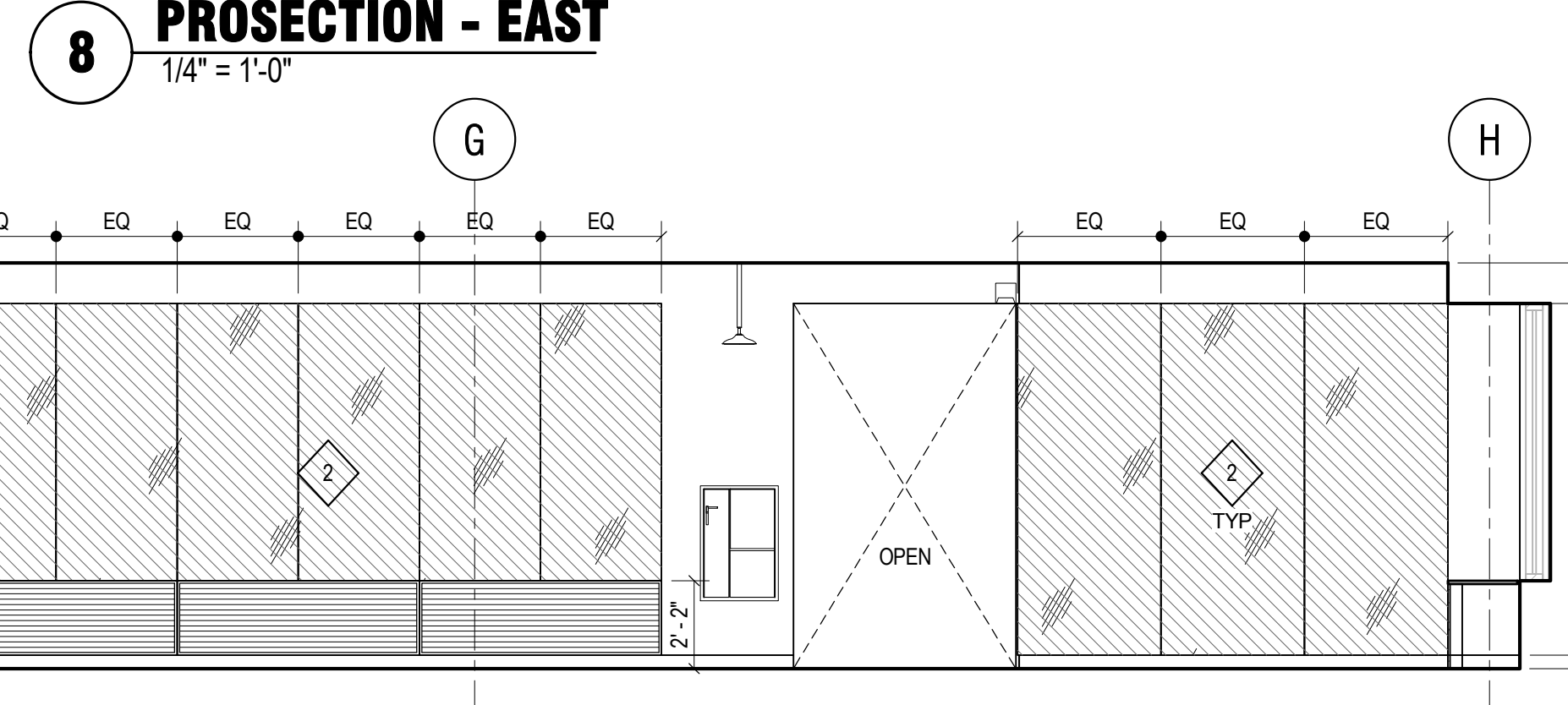
7 NORTH HALLWAY - SOUTH 1/4" = 1'-0"



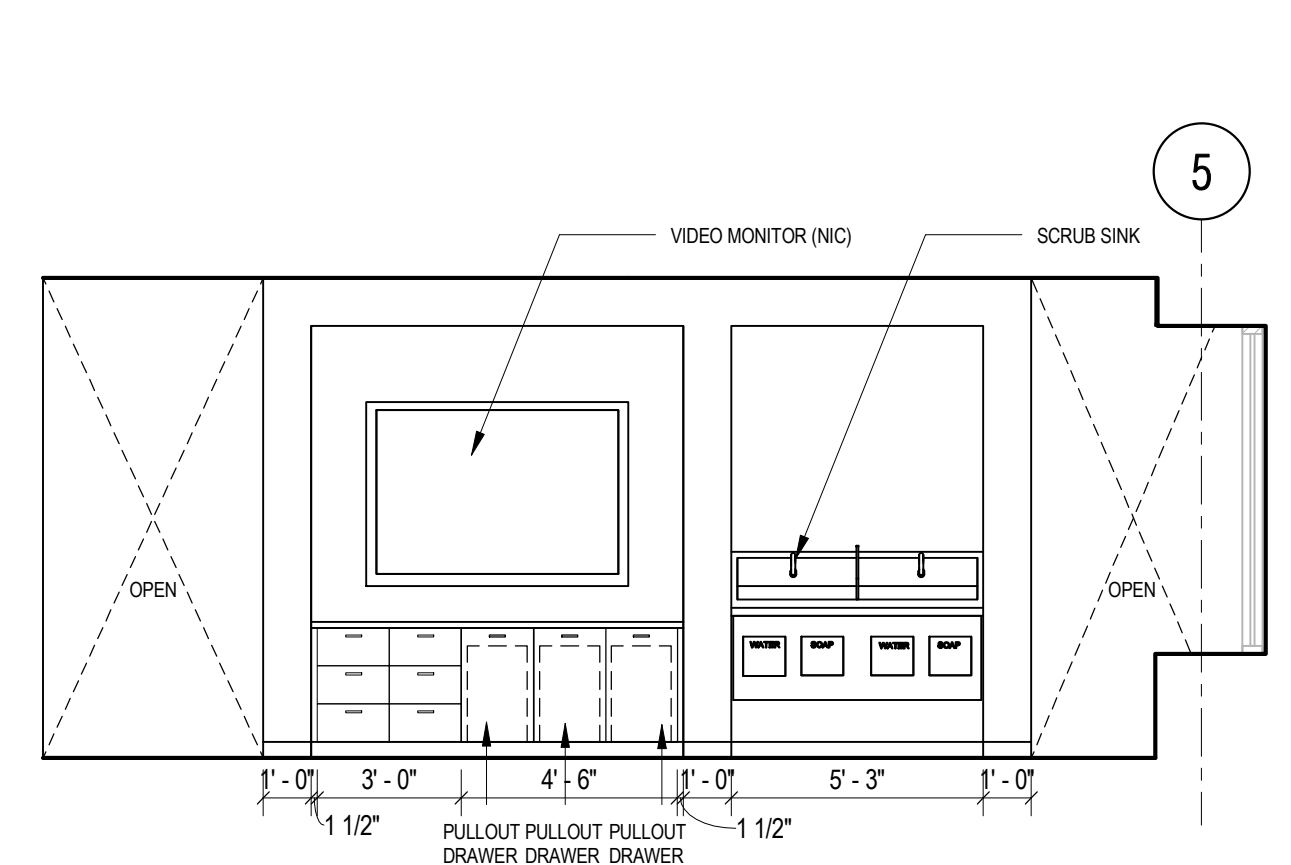
6 ANATOMY - SOUTH 1/4" = 1'-0"



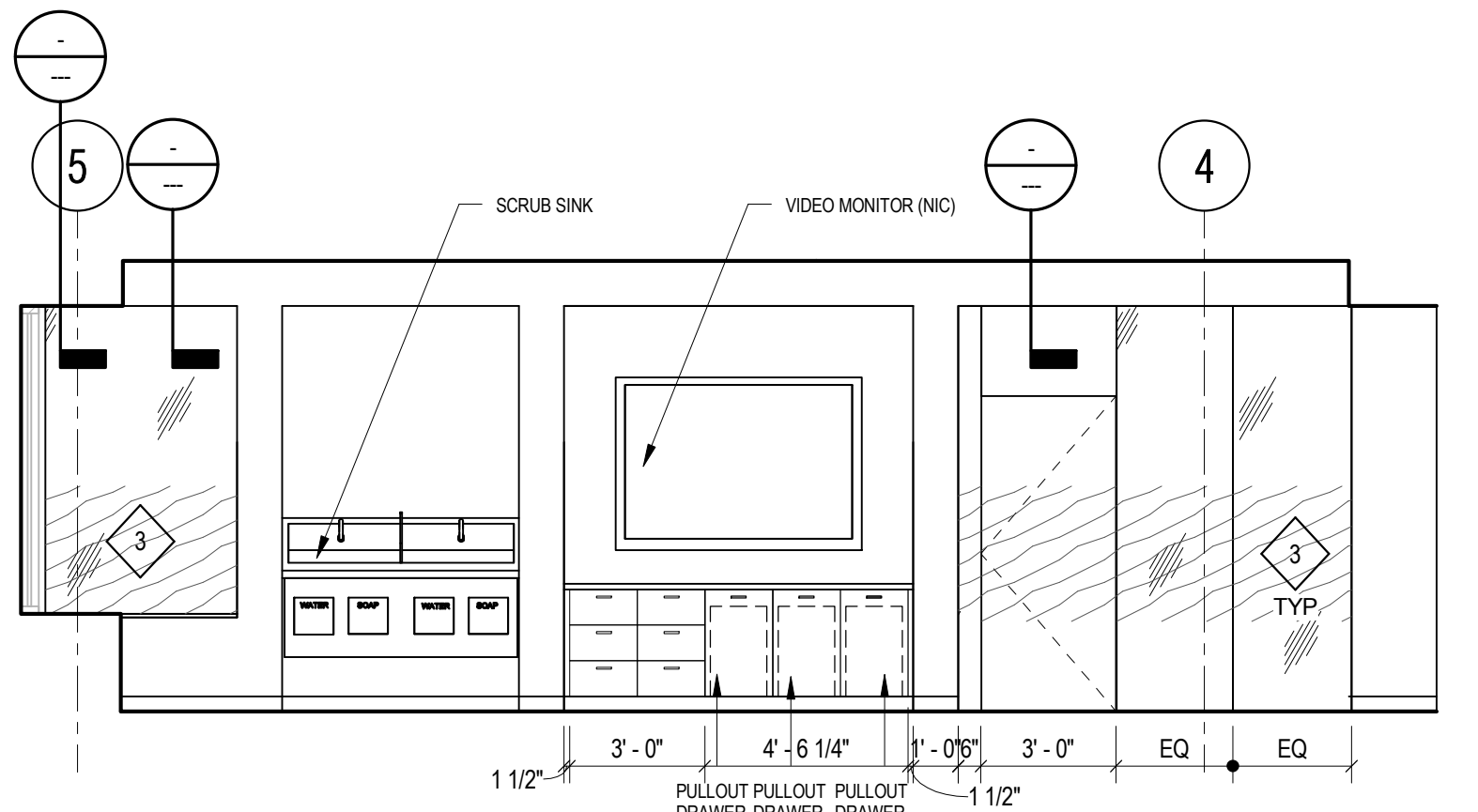
5 ANATOMY - WEST 1/4" = 1'-0"



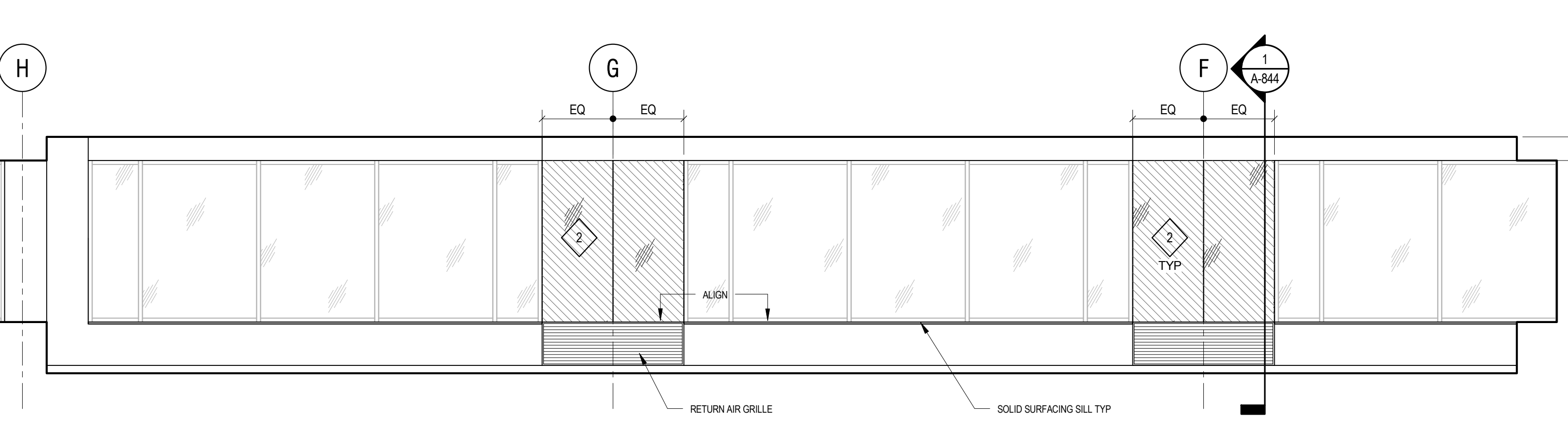
13 ANATOMY - EAST 1/4" = 1'-0"



4 ELEVATION - NORTH 1/4" = 1'-0"



14 ANATOMY - SOUTH 1/4" = 1'-0"



13 ANATOMY - EAST 1/4" = 1'-0"

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Project Key Plan

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Rev Date Description

University of Idaho

University of Idaho WWAMI

700 S MAIN ST, MOSCOW, ID 83843

WWAMI GRITMAN BUILDING

Project Phase DESIGN DEVELOPMENT

Date 12/06/16 Drawn By FLAD

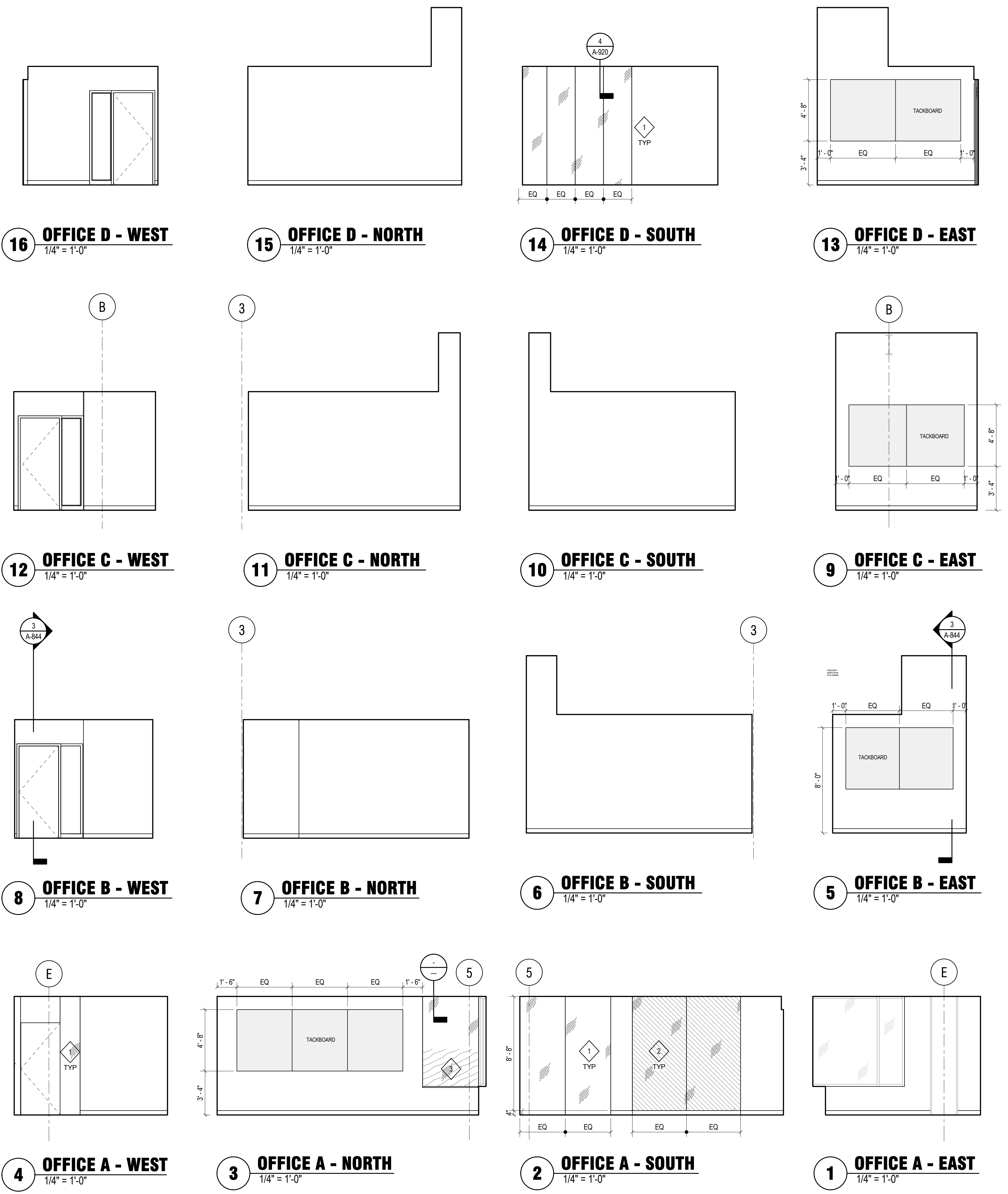
Project Number 15788-01 Checked By FLAD

Sheet Title INTERIOR ELEVATIONS

Sheet Number A-842 Rev. No.

GLAZING LEGEND

- GL01 VISION GLASS CLEAR, TEMPERED
- GL02 BACKPAINTED GLASS, COLOR TBD
- GL03 VISION GLASS CLEAR WITH GRAPHIC, TEMPERED



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Project Key Plan

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Rev	Date	Description
Project Title		

University of Idaho

University of Idaho WWAMI

700 S MAIN ST, MOSCOW, ID 83843

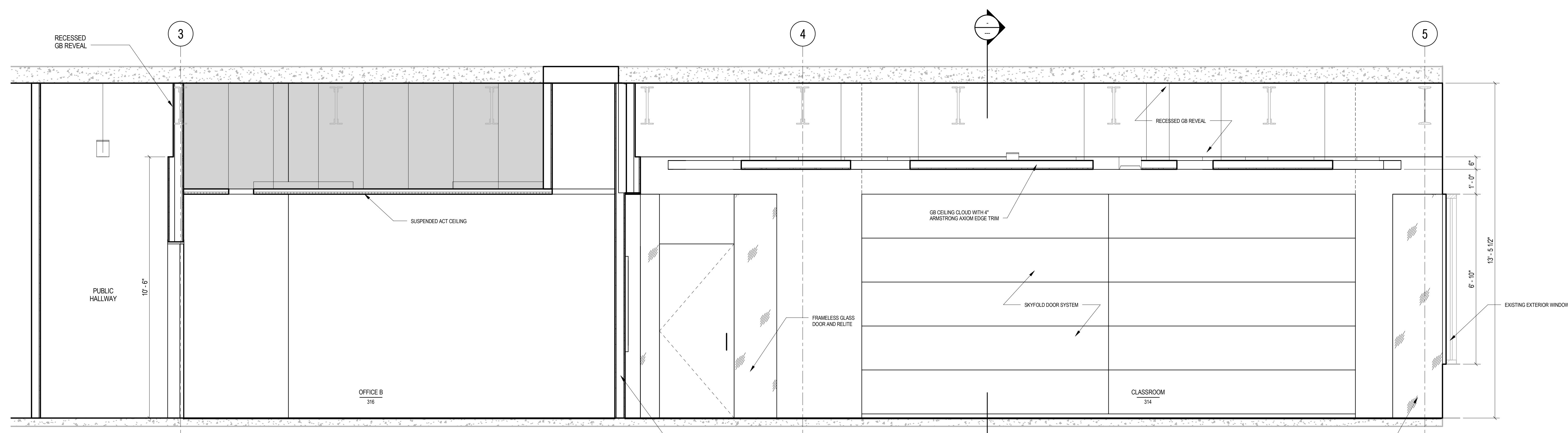
WWAMI GRITMAN BUILDING

Project Phase DESIGN DEVELOPMENT

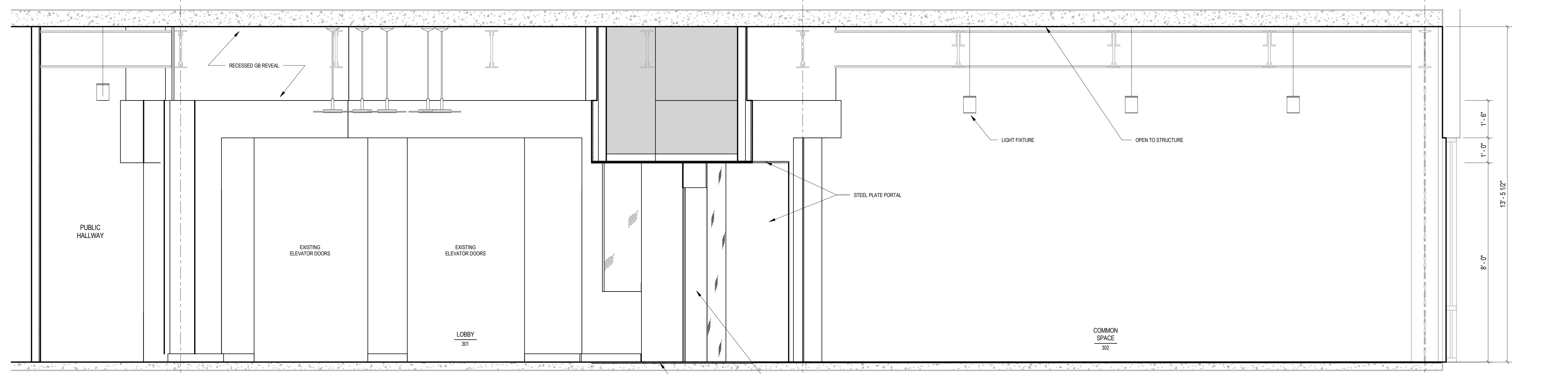
Date 12/06/16	Drawn By FLAD
Project Number 15788-01	Checked By FLAD

Sheet Title INTERIOR ELEVATIONS

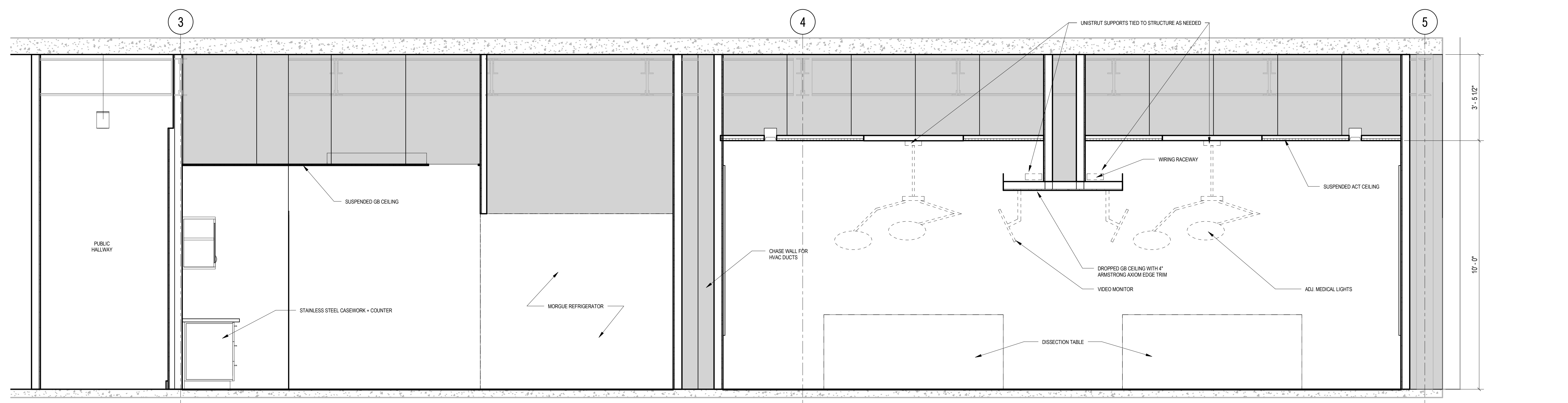
Sheet Number A-843	Rev. No.
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**3 CLASSROOM SECTION**  
1/2" = 1'-0"



**2 COMMON SPACE SECTION**  
1/2" = 1'-0"



**1 ANATOMY SUITE SECTION**  
1/2" = 1'-0"

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Project Key Plan

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**University of Idaho WWAMI**

700 S MAIN ST, MOSCOW, ID 83843

**WWAMI**  
GRITMAN BUILDING

Project Phase  
DESIGN DEVELOPMENT

Date 12/06/16	Drawn By FLAD
Project Number 15788-01	Checked By FLAD

Sheet Title  
**INTERIOR SECTIONS**

Sheet Number <b>A-844</b>	Rev. No.
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Flad Architects

MW CONSULTING ENGINEERS

EDCI ENGINEERS



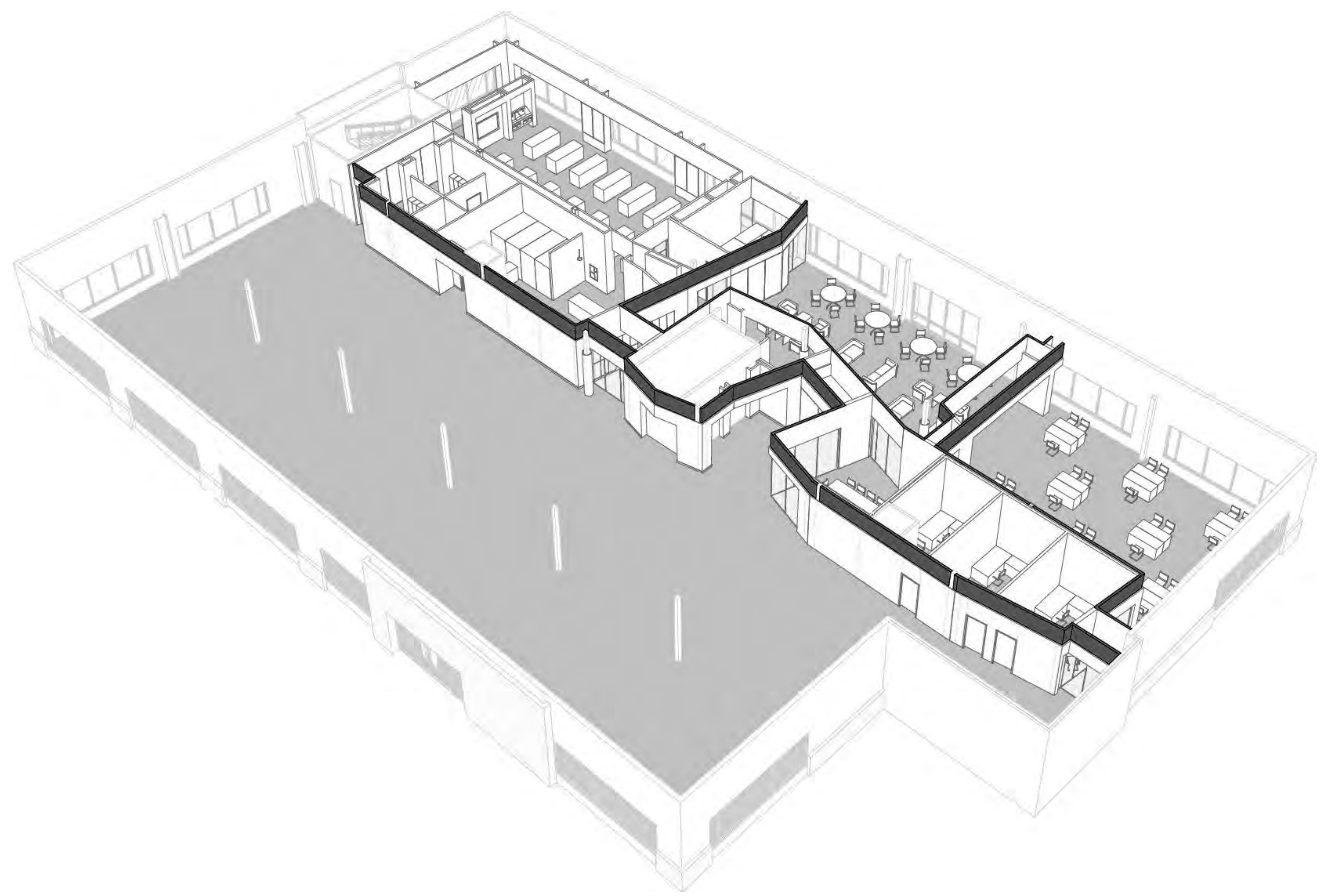
3 LOBBY VIEW



2 COMMON SPACE - SOUTH VIEW



1 COMMON VIEW - NORTH VIEW



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University of Idaho

University of Idaho WWAMI

700 S MAIN ST, MOSCOW, ID 83843

WWAMI GRITMAN BUILDING

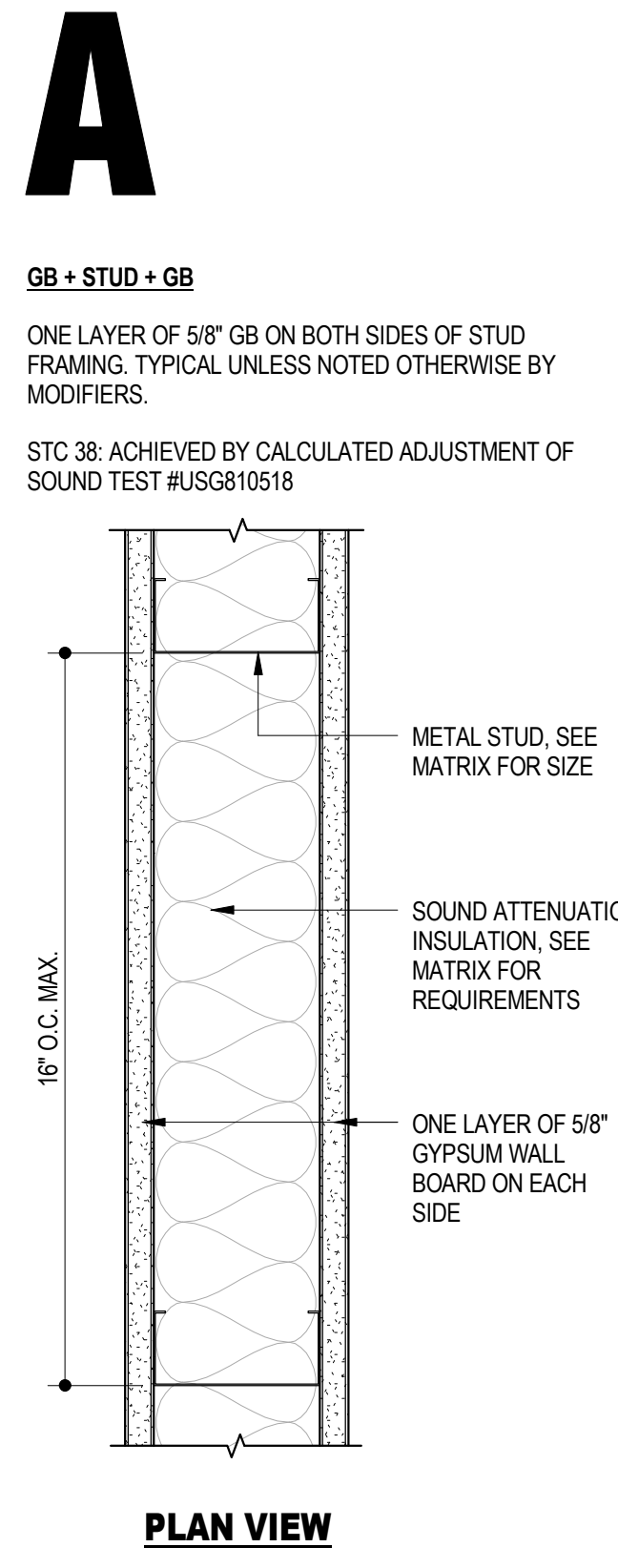
Project Phase DESIGN DEVELOPMENT

Date 12/06/16 Drawn By FLAD Project Number 15788-01 Checked By FLAD

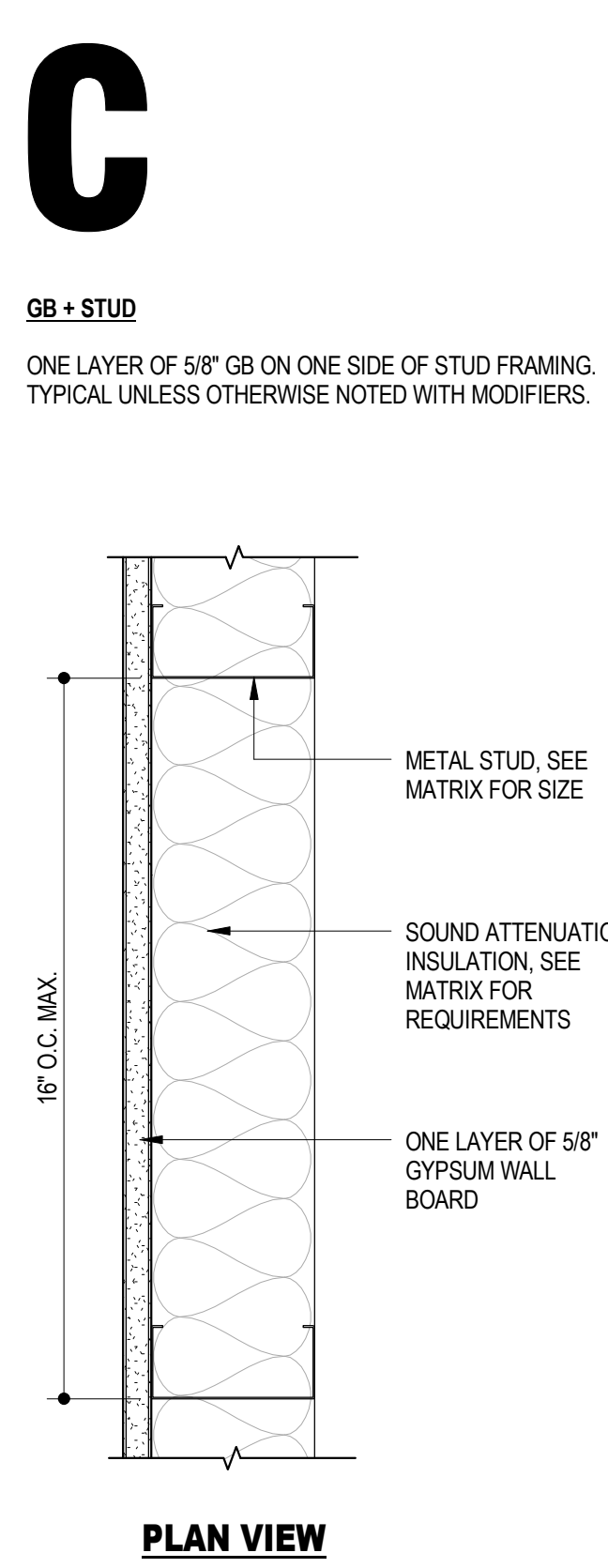
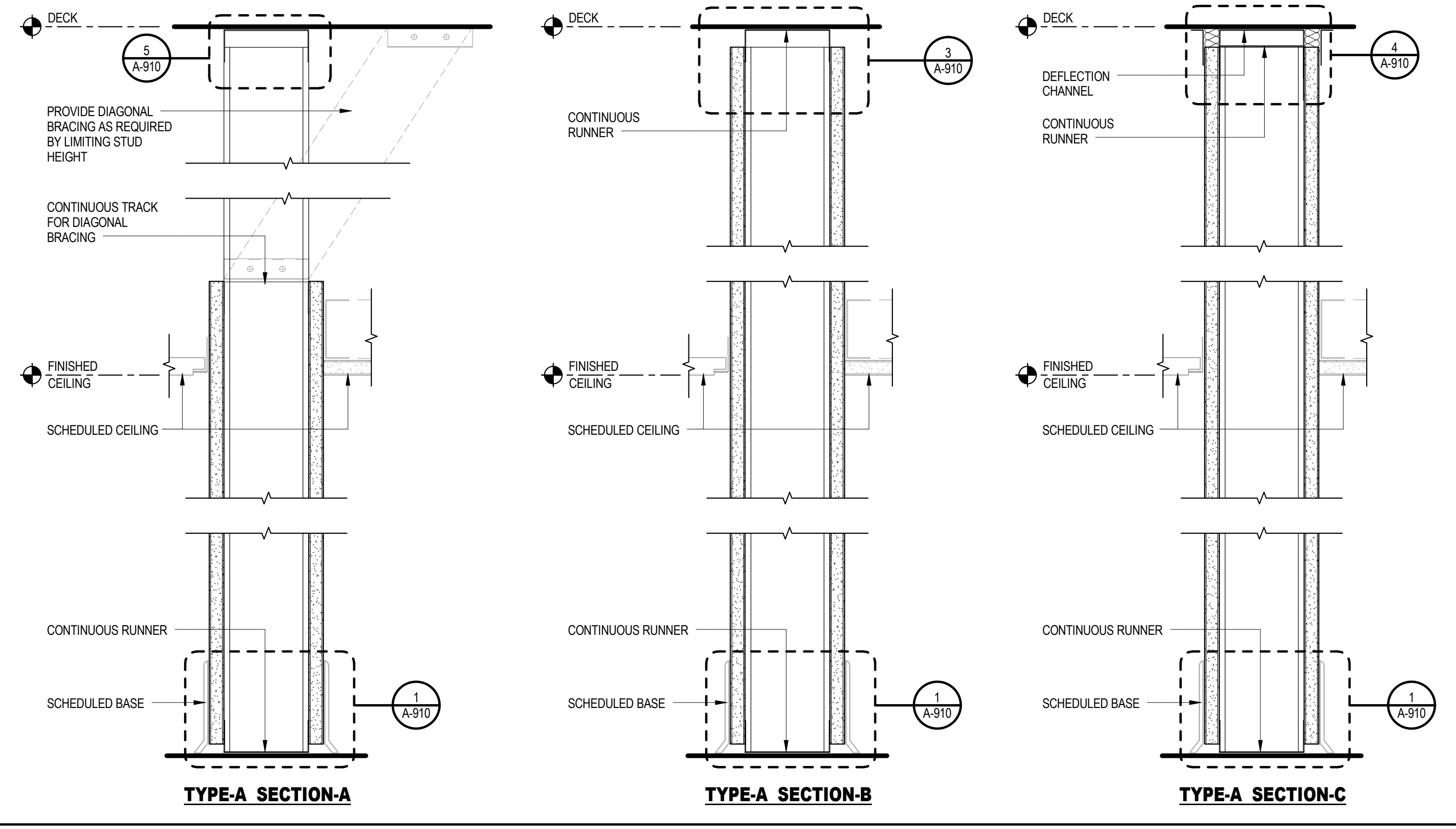
Sheet Title 3D REPRESENTATIONS

Sheet Number A-850 Rev. No.

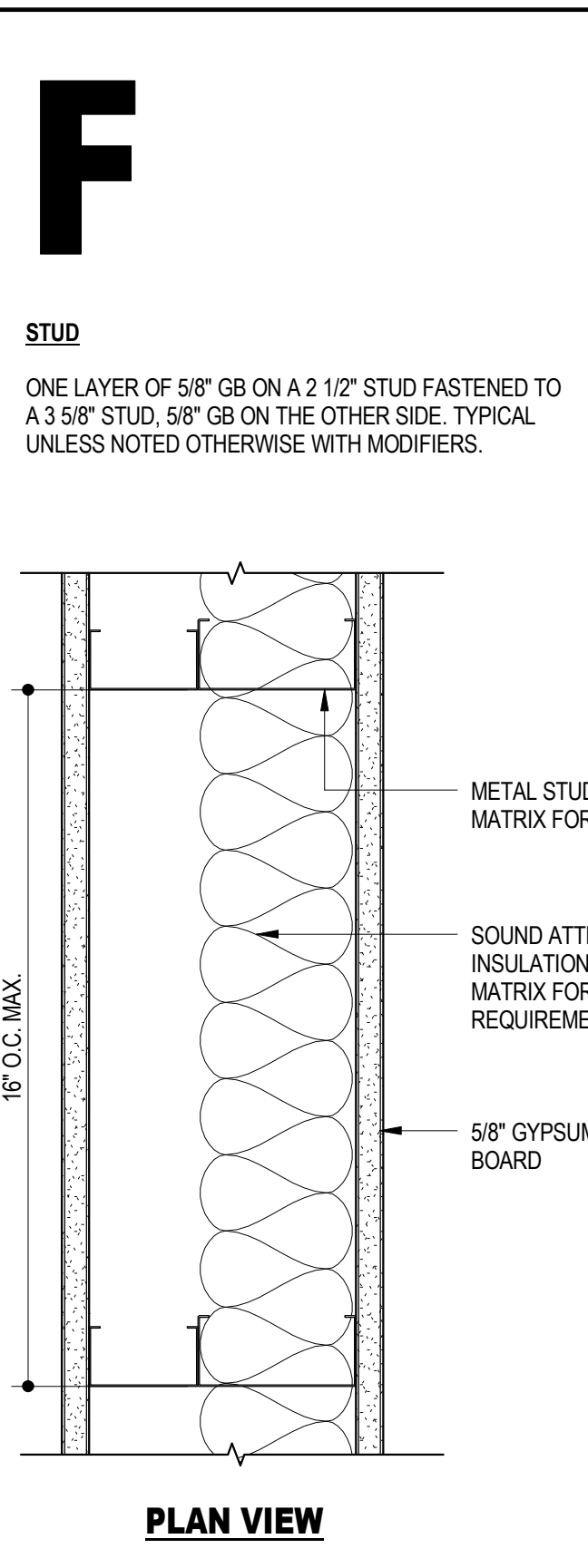
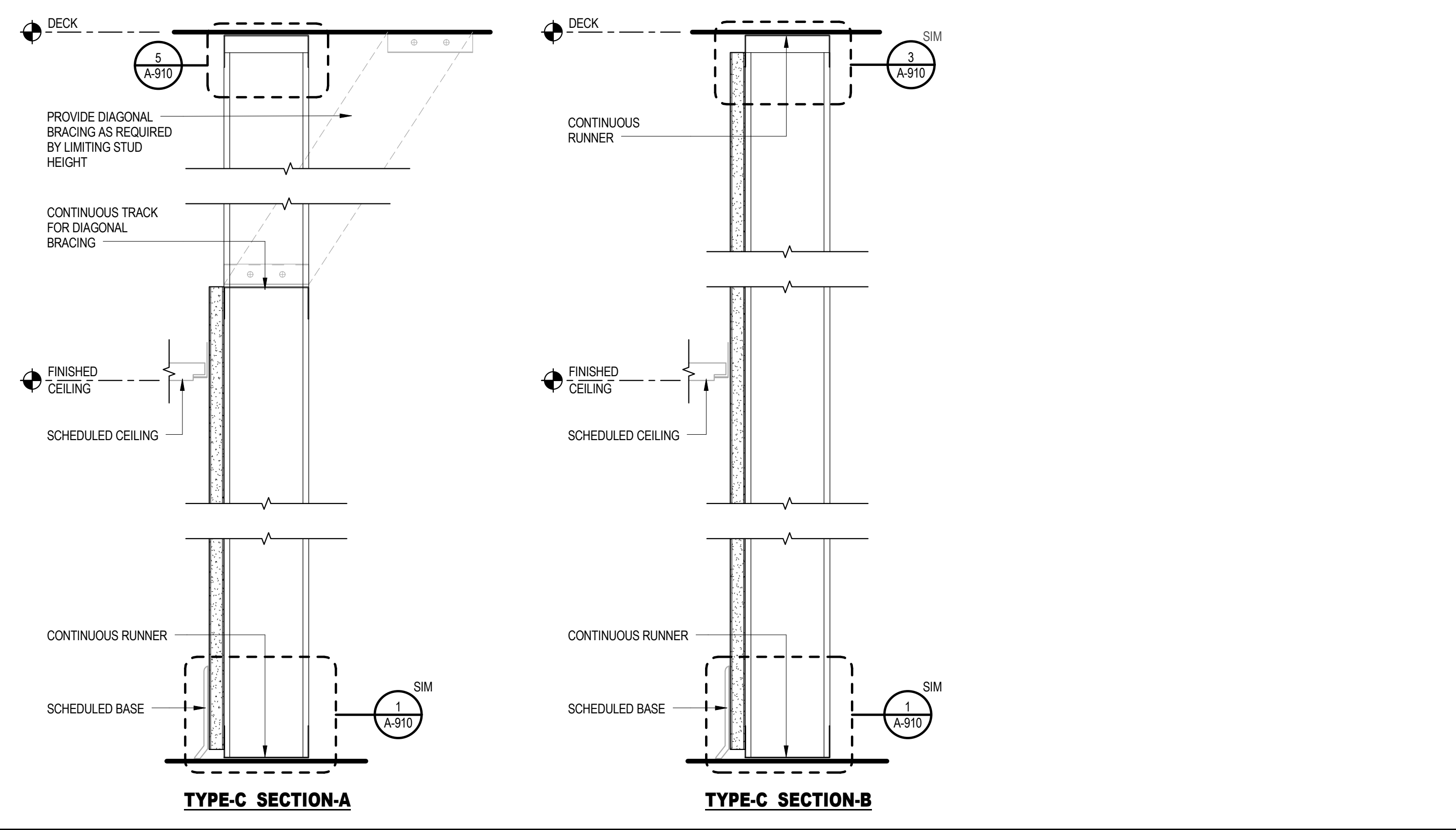




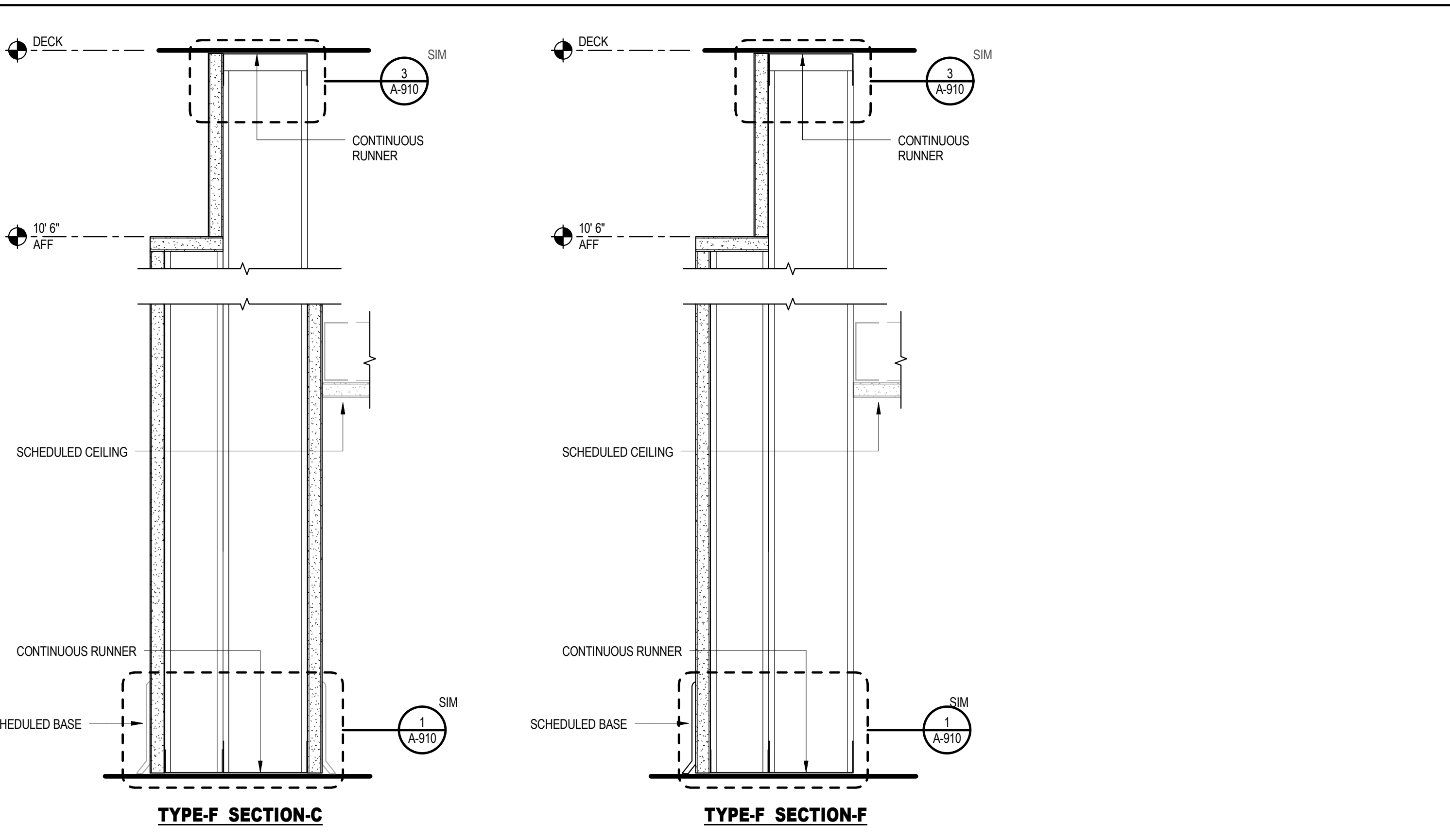
		1	2	3	4	6
OVERALL WIDTH		2 7/8"	3 3/4"	4 7/8"	5 1/4"	7 1/4"
MINIMUM INSULATION THICKNESS WHERE STC RATING REQUIRED AND NOTED						
STUD WIDTH		1 5/8"	2 1/2"	3 5/8"	4"	6"
NON-RATED PARTITIONS	A	NON-RATED PARTITION TO 4" MIN. ABOVE FINISHED CEILING BRACED TO DECK	TYPE-A SECT-A			<b>A3A</b>
	B	NON-RATED PARTITION TO 4" MIN. ABOVE FINISHED CEILING BRACED TO DECK WITH SOUND ATTENUATION INSULATION	TYPE-A SECT-A			<b>A3B</b>
	C	NON-RATED PARTITION - FULL HEIGHT TO UNDERSIDE OF DECK	TYPE-A SECT-B			<b>A3C</b>
	D	NON-RATED PARTITION - FULL HEIGHT TO UNDERSIDE OF DECK WITH SOUND ATTENUATION INSULATION	TYPE-A SECT-B			<b>A3D</b>
	E	NON-RATED PARTIAL HEIGHT PARTITION	XX UNO SEE FLOOR PLANS			<b>A3E</b>
	F	UNDEFINED - PROJECT SPECIFIC AS REQUIRED				
RATED PARTITIONS	K	1-HR RATED PARTITION - FULL HEIGHT TO UNDERSIDE OF DECK				
	L	1-HR RATED PARTITION - FULL HEIGHT TO UNDERSIDE OF DECK WITH SOUND ATTENUATION INSULATION				
	M	2-HR RATED PARTITION - FULL HEIGHT TO UNDERSIDE OF DECK				
	N	2-HR RATED PARTITION - FULL HEIGHT TO UNDERSIDE OF DECK WITH SOUND ATTENUATION INSULATION				
	P	3-HR RATED PARTITION - FULL HEIGHT TO UNDERSIDE OF DECK				
	Q	3-HR RATED PARTITION - FULL HEIGHT TO UNDERSIDE OF DECK WITH SOUND ATTENUATION INSULATION				



		1	2	3	4	6
OVERALL WIDTH		2 1/4"	3 1/8"	4 1/4"	5 5/8"	6 5/8"
MINIMUM INSULATION THICKNESS WHERE STC RATING REQUIRED AND NOTED						
STUD WIDTH		1 5/8"	2 1/2"	3 5/8"	4"	6"
NON-RATED PARTITIONS	A	NON-RATED PARTITION TO 4" MIN. ABOVE FINISHED CEILING BRACED TO DECK	TYPE-C SECT-A			<b>C3A</b>
	B	NON-RATED PARTITION TO 4" MIN. ABOVE FINISHED CEILING BRACED TO DECK WITH SOUND ATTENUATION INSULATION	TYPE-C SECT-A			<b>C3B</b>
	C	NON-RATED PARTITION - FULL HEIGHT TO UNDERSIDE OF DECK	TYPE-C SECT-B			<b>C3C</b>
	D	NON-RATED PARTITION - FULL HEIGHT TO UNDERSIDE OF DECK WITH SOUND ATTENUATION INSULATION	TYPE-C SECT-B			<b>C3D</b>
	E	NON-RATED PARTIAL HEIGHT PARTITION				
	F	UNDEFINED - PROJECT SPECIFIC AS REQUIRED				
RATED PARTITIONS	K	1-HR RATED PARTITION - FULL HEIGHT TO UNDERSIDE OF DECK				
	L	1-HR RATED PARTITION - FULL HEIGHT TO UNDERSIDE OF DECK WITH SOUND ATTENUATION INSULATION				
	M	2-HR RATED PARTITION - FULL HEIGHT TO UNDERSIDE OF DECK				
	N	2-HR RATED PARTITION - FULL HEIGHT TO UNDERSIDE OF DECK WITH SOUND ATTENUATION INSULATION				
	P	3-HR RATED PARTITION - FULL HEIGHT TO UNDERSIDE OF DECK				
	Q	3-HR RATED PARTITION - FULL HEIGHT TO UNDERSIDE OF DECK WITH SOUND ATTENUATION INSULATION				



		1	2	3	4	5
OVERALL WIDTH		--	--	7 3/8"	--	--
MINIMUM INSULATION THICKNESS WHERE STC RATING REQUIRED AND NOTED						
STUD WIDTH		--	--	3 5/8" + 2 1/2"	--	--
NON-RATED PARTITIONS	A	NON-RATED PARTITION TO 4" MIN. ABOVE FINISHED CEILING BRACED TO DECK	TYPE-F SECT-A			
	B	NON-RATED PARTITION TO 4" MIN. ABOVE FINISHED CEILING BRACED TO DECK WITH SOUND ATTENUATION INSULATION	TYPE-F SECT-A			
	C	NON-RATED PARTITION - FULL HEIGHT TO UNDERSIDE OF DECK	TYPE-F SECT-B			<b>F3C</b>
	D	NON-RATED PARTITION - FULL HEIGHT TO UNDERSIDE OF DECK WITH SOUND ATTENUATION INSULATION	TYPE-F SECT-B			
	E	NON-RATED PARTIAL HEIGHT PARTITION				
	F	NON-RATED PARTITION - FULL HEIGHT TO UNDERSIDE OF DECK, GB ON 2 1/2" STUD SIDE	TYPE-F SECT-F			<b>F3F</b>
RATED PARTITIONS	K	1-HR RATED PARTITION - FULL HEIGHT TO UNDERSIDE OF DECK				
	L	1-HR RATED PARTITION - FULL HEIGHT TO UNDERSIDE OF DECK WITH SOUND ATTENUATION INSULATION				
	M	2-HR RATED PARTITION - FULL HEIGHT TO UNDERSIDE OF DECK				
	N	2-HR RATED PARTITION - FULL HEIGHT TO UNDERSIDE OF DECK WITH SOUND ATTENUATION INSULATION				
	P	3-HR RATED PARTITION - FULL HEIGHT TO UNDERSIDE OF DECK				
	Q	3-HR RATED PARTITION - FULL HEIGHT TO UNDERSIDE OF DECK WITH SOUND ATTENUATION INSULATION				



**PARTITION GENERAL NOTES**

- ALL PARTITION TYPES ARE SHOWN AS PLAN SECTIONS UNO
- NOT ALL PARTITION SUB-TYPES APPEARING IN EACH PARTITION MATRIX ARE NECESSARILY USED IN THE PROJECT. REFER TO FLOOR PLANS FOR PARTITIONS USED.
- REFER TO SHEET XXXXX FOR TYPICAL SEISMIC FRAMING REQUIREMENTS.
- WHERE COLD-FORMED METAL FRAMING IS INDICATED, REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- REFER TO SHEET XXXXX FOR TYPICAL PARTITION DETAILS SUCH AS REVEALS, CONTROL AND EXPANSION JOINTS.
- WALLS ARE INDICATED WITH CONVENTIONAL GYPSUM BOARD. PROVIDE SPECIALTY GYPSUM BOARD (E.G. MOLD AND MOISTURE RESISTANT, IMPACT RESISTANT, TILE CEMENT BACKER BOARD, ETC.) WHERE INDICATED.
- PARTITION TYPES DO NOT INCLUDE APPLIED FINISHES. REFER TO ROOM FINISH SCHEDULES (I.E. ROOM FINISH SCHEDULE) AND INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.
- COORDINATE LOCATIONS AND TYPES OF BACKING PLATES AND/OR BLOCKING AT ALL PARTITIONS TO RECEIVE WALL MOUNTED ASSEMBLIES SUCH AS CASEWORK, EQUIPMENT AND HANDRAILS. REFER TO SHEET XXXXX FOR TYPICAL DETAILS.
- WHERE FIRE RESISTANCE RATINGS ARE INDICATED, INSTALL PARTITION TYPES PER DESIGNATED FIRE RESISTANCE DESIGN REQUIREMENTS.
- MAINTAIN CONTINUITY OF RATING AT ALL RATED PARTITIONS AROUND OR THROUGH INTERVENING COLUMN ENCLOSURES AND NON-RATED PARTITIONS. REFER TO LIFE SAFETY PLANS FOR ADDITIONAL INFORMATION.
- PROVIDE FIRE-STOP ASSEMBLIES AT ALL PENETRATIONS, PARTITION JOINTS, EDGE OF SLAB AND PARTITION HEADS AT RATED PARTITIONS AS REQUIRED BY CODE TO MAINTAIN RATING. REFER TO SHEET XXXXX FOR TYPICAL FIRE-RATED PARTITION DETAILS.
- PROVIDE FIRE AND SMOKE ASSEMBLY IDENTIFICATION FOR LABELING OF FIRE AND SMOKE PARTITIONS.
- WHERE A PARTITION MUST COMPLY WITH BOTH FIRE RATING AND ACOUSTICAL REQUIREMENTS, FIRE STOPPING REQUIREMENTS SHALL GOVERN.
- IDENTIFIED STC RATINGS ARE MINIMUM REQUIRED VALUES FOR THE LISTED PARTITION TYPES. LISTED STC RATINGS APPLY ONLY TO PARTITION ASSEMBLIES IN THEIR ENTIRETY. ANY MODIFICATIONS/SUBSTITUTION REQUESTS TO THE PARTITION TYPE ASSEMBLY TO INCLUDE STC TESTING AND VERIFICATION.
- STC RATINGS ARE BASED UPON LABORATORY TESTED OR CALCULATED VALUES. IN PLACE CONDITIONS WILL VARY.
- WHERE ADDITIONAL INSULATION IS INDICATED ABOVE AND BEYOND THE DESIGNATED FIRE RESISTANCE ASSEMBLY, PROVIDE THICKNESS OF INSULATION TO FILL STUD CAVITY WITH MINIMUM FREE AIR SPACE; THICKNESS NOT TO EXCEED 1/2" BEYOND STUD SIZE.
- EXTEND SOUND ATTENUATION INSULATION, WHERE INDICATED, CONTINUOUSLY FROM FLOOR TO DECK ABOVE. UNO

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**PARTITION TAG GUIDE**

- REFER TO PARTITION MATRIX FOR DETAILS OF EACH ASSEMBLY
- 1st CHARACTER: DENOTES THE BASIC PARTITION ASSEMBLY TYPES
- 2nd CHARACTER: DENOTES NOMINAL STUD SIZE/MASONRY THICKNESS
- 3rd CHARACTER: DENOTES ADDITIONAL REQUIREMENTS OR ENHANCEMENTS TO THE BASIC PARTITION TYPES
- 4th CHARACTER / MODIFIER (& 5th CHARACTER IF APPLICABLE): DENOTES ADDITIONAL COMPONENTS OR ENHANCEMENTS TO THE BASIC PARTITION TYPES AS FOLLOW:
- MODIFIERS**
- a. ABUSE RESISTANT GB ON TAG SIDE
  - b. ABUSE RESISTANT GB ON EACH SIDE
  - c. HIGH IMPACT RESISTANT GB ON TAG SIDE
  - d. HIGH IMPACT RESISTANT GB ON EACH SIDE
  - e. MOLD AND MOISTURE RESISTANT GB ON TAG SIDE
  - f. MOLD AND MOISTURE RESISTANT GB ON EACH SIDE
  - g. GLASS MAT GB ON TAG SIDE
  - h. GLASS MAT GB ON EACH SIDE
  - i. TILE CEMENT BACKER BOARD ON TAG SIDE
  - k. TILE CEMENT BACKER BOARD ON EACH SIDE
  - m. ACOUSTICALLY ENHANCED GB ON EACH SIDE
  - n. COLD-FORM METAL FRAMING IN LIEU OF METAL STUD (SEE SPEC SECTION 05 4000)
  - o. FOIL-BACKED GB ON THE SYMBOL SIDE
  - p. HIGH SECURITY PROVISIONS
  - s. NON-RATED SMOKE PARTITION. REFER TO LIFE SAFETY DRAWINGS

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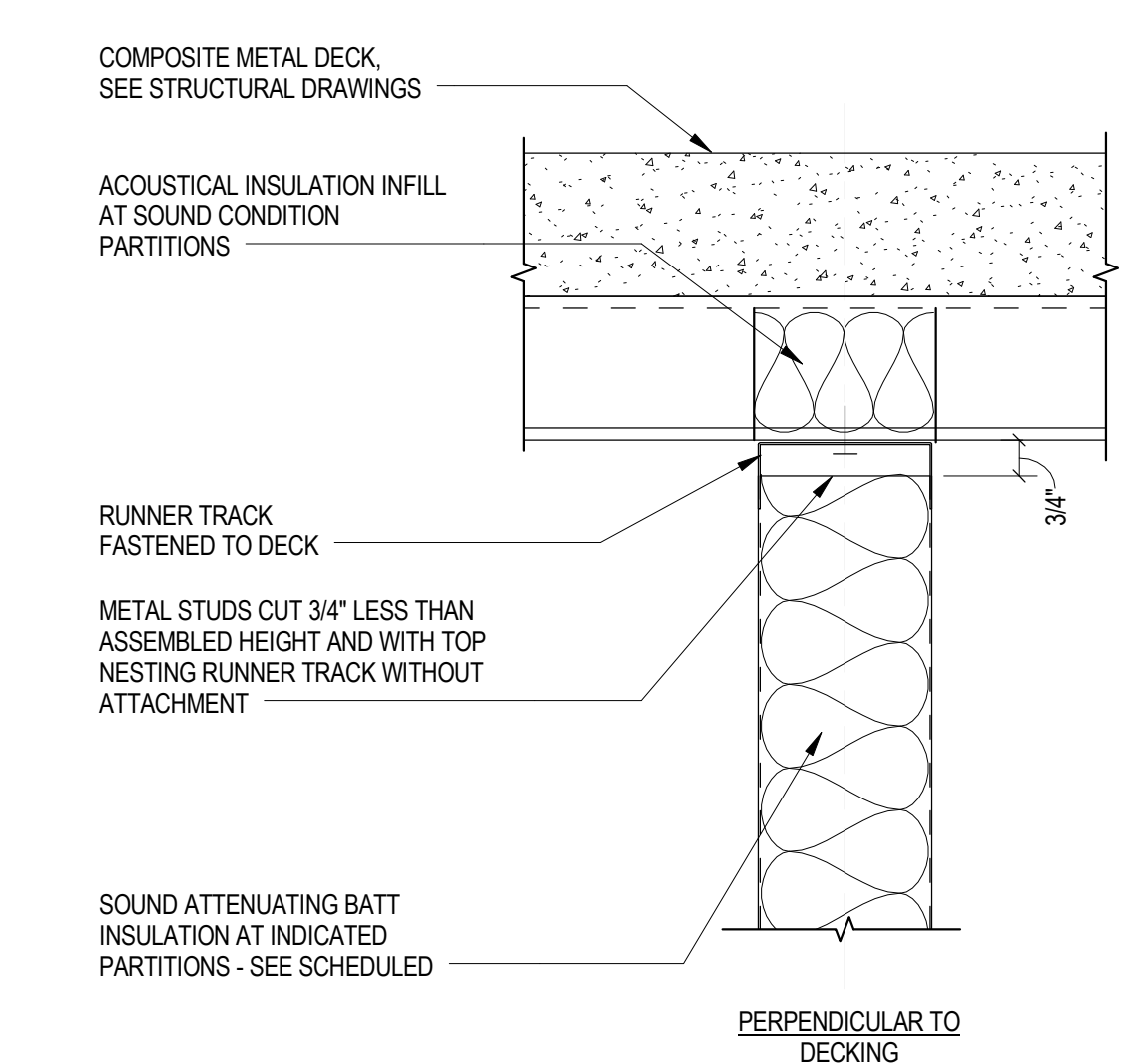
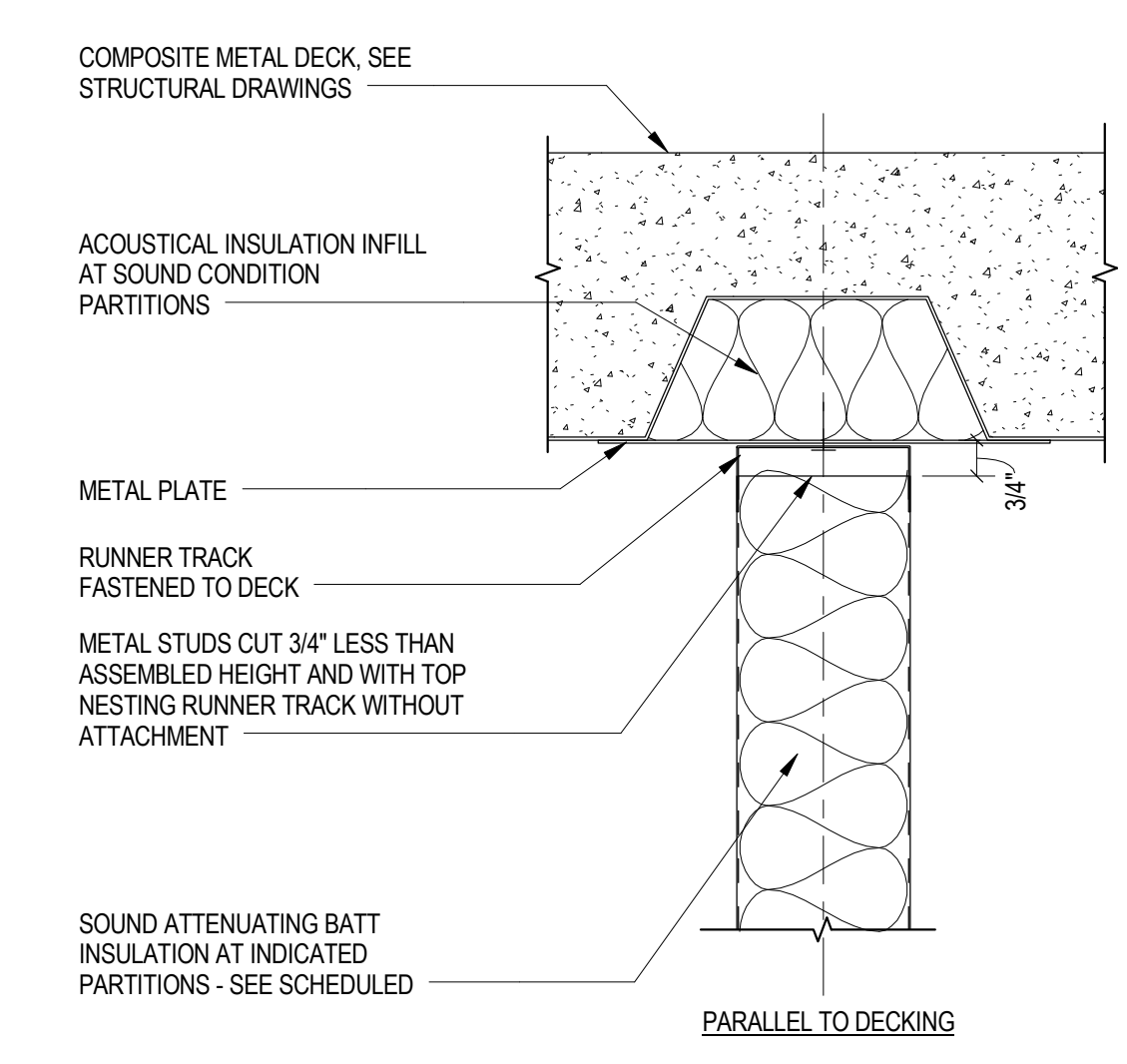
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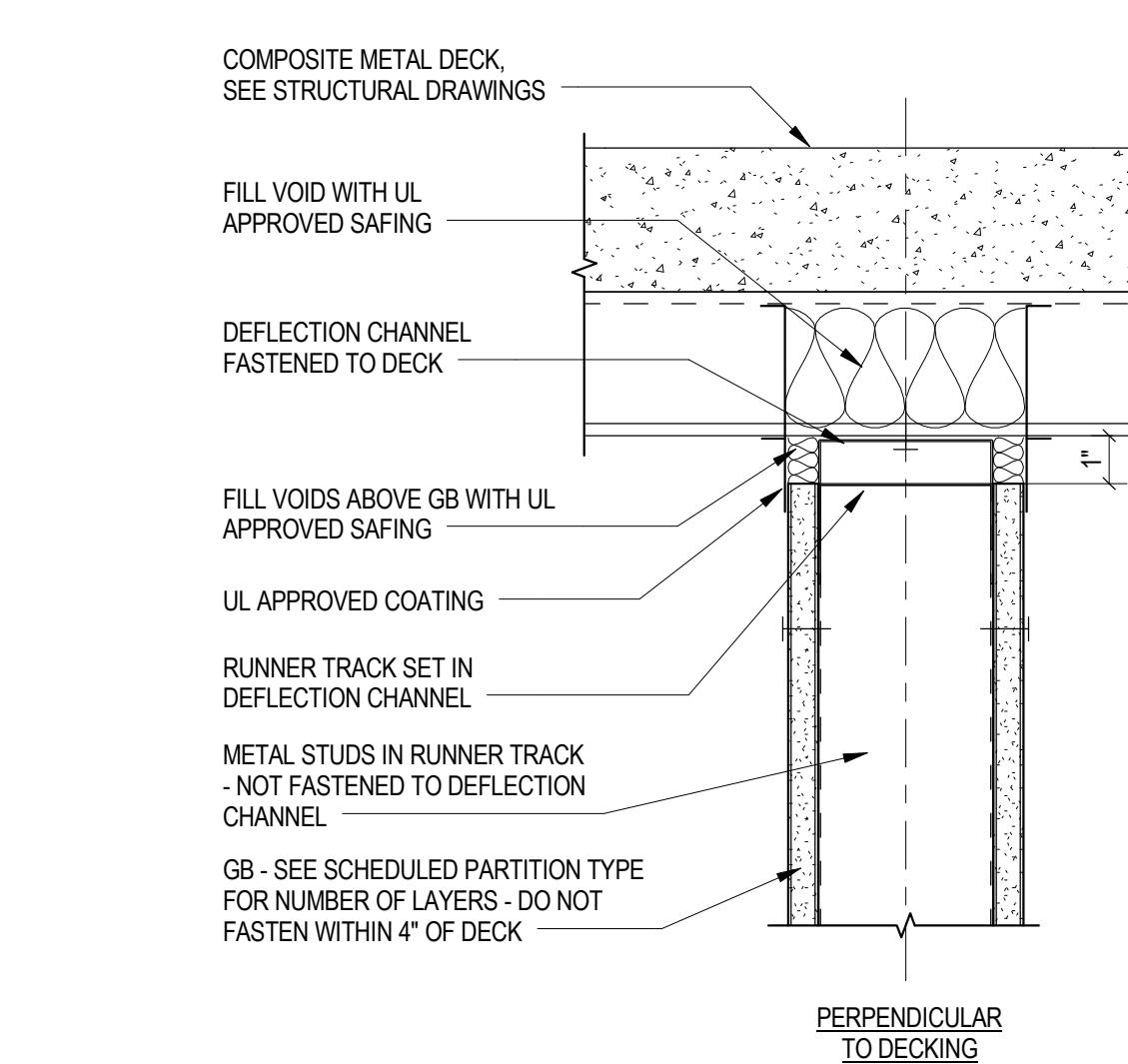
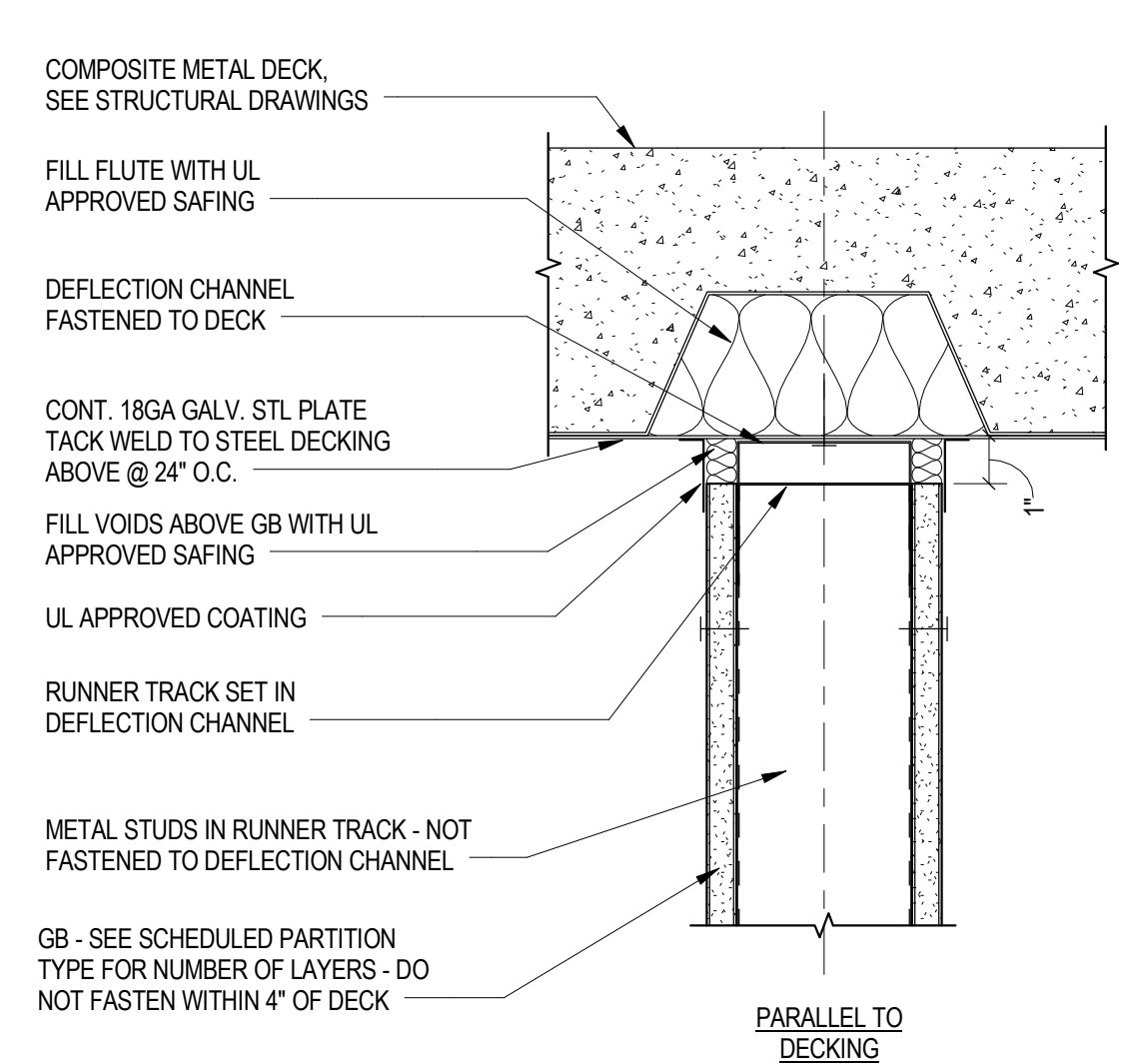
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**PARTITION TYPES A, C & F**

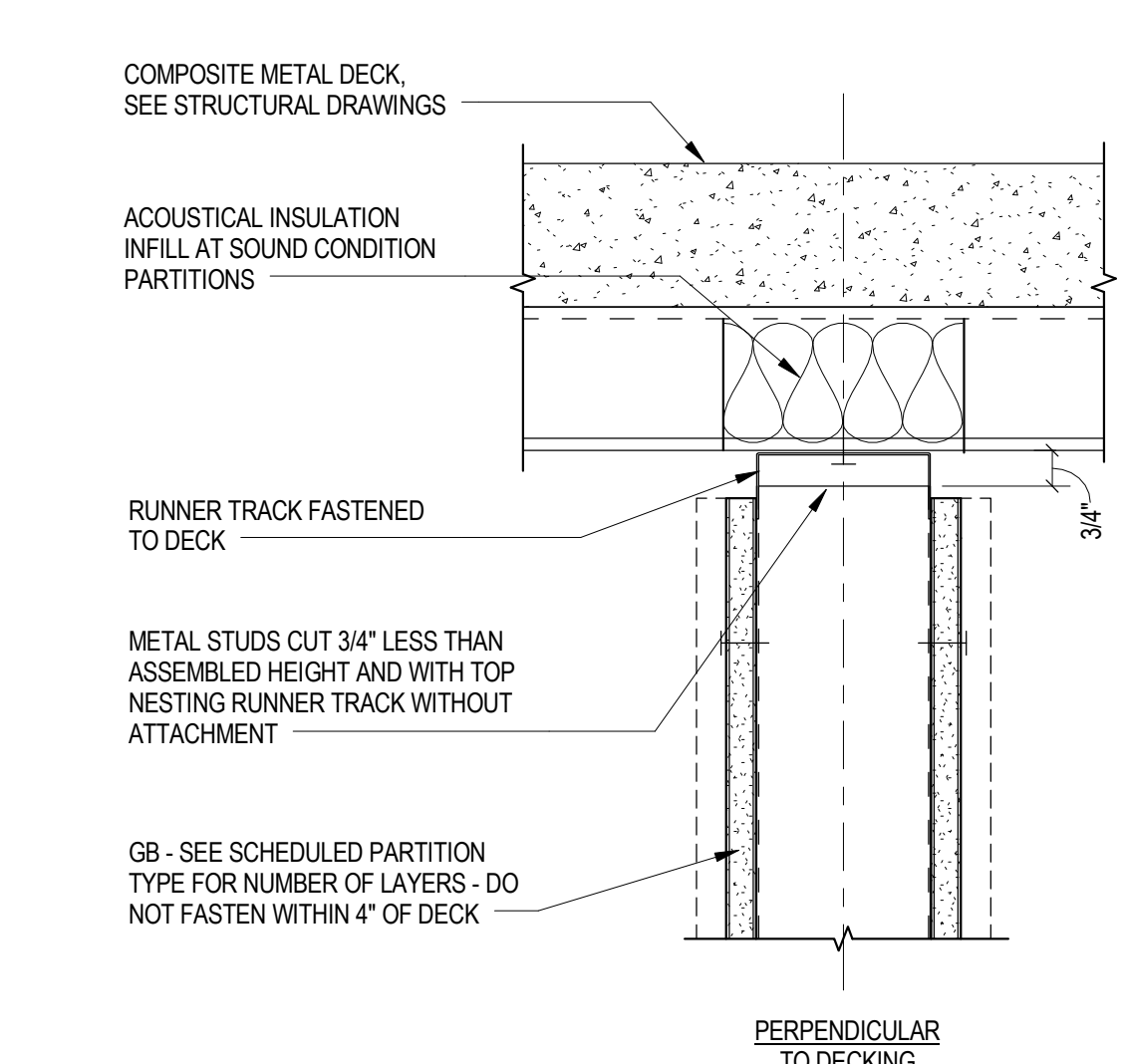
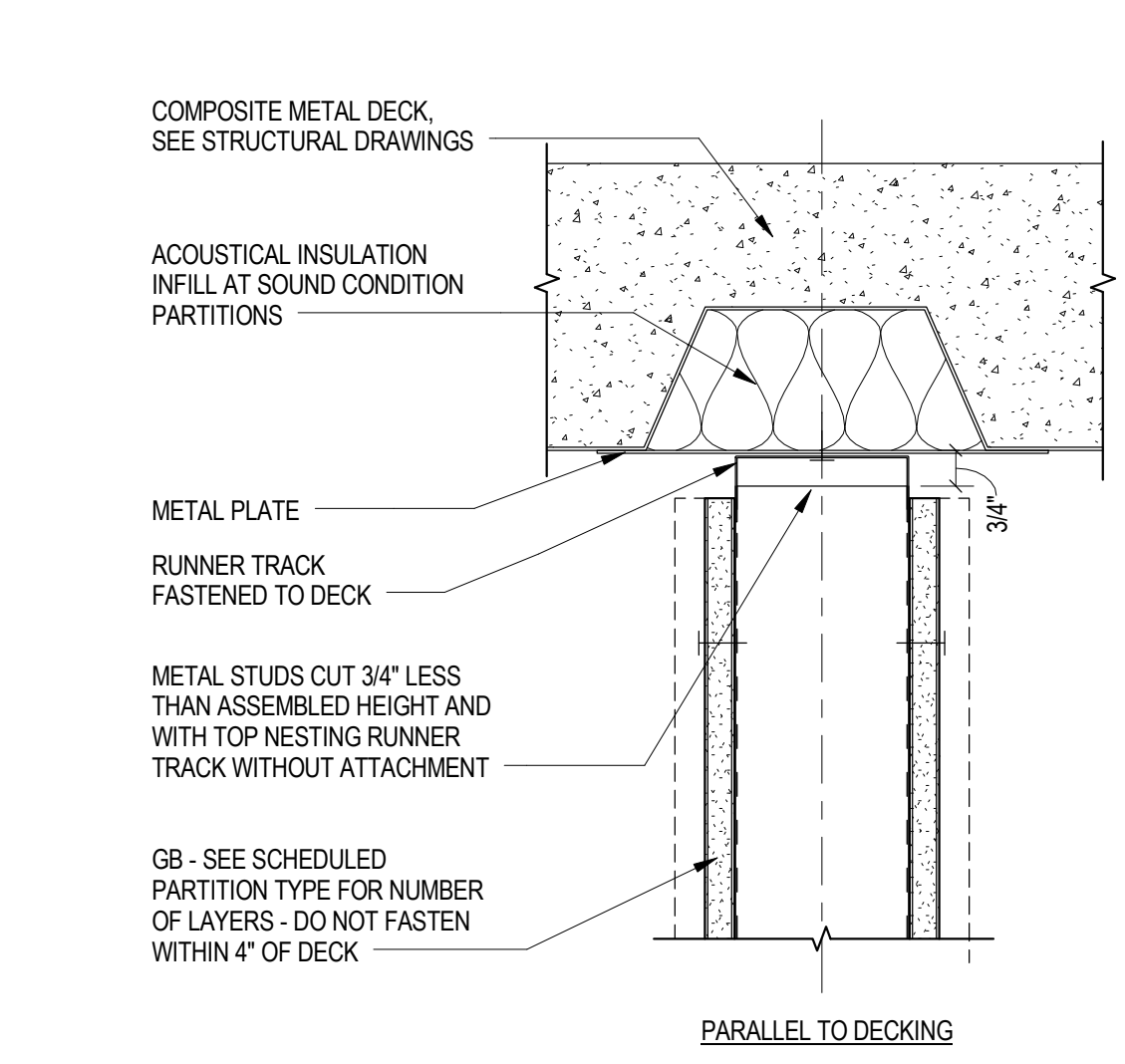
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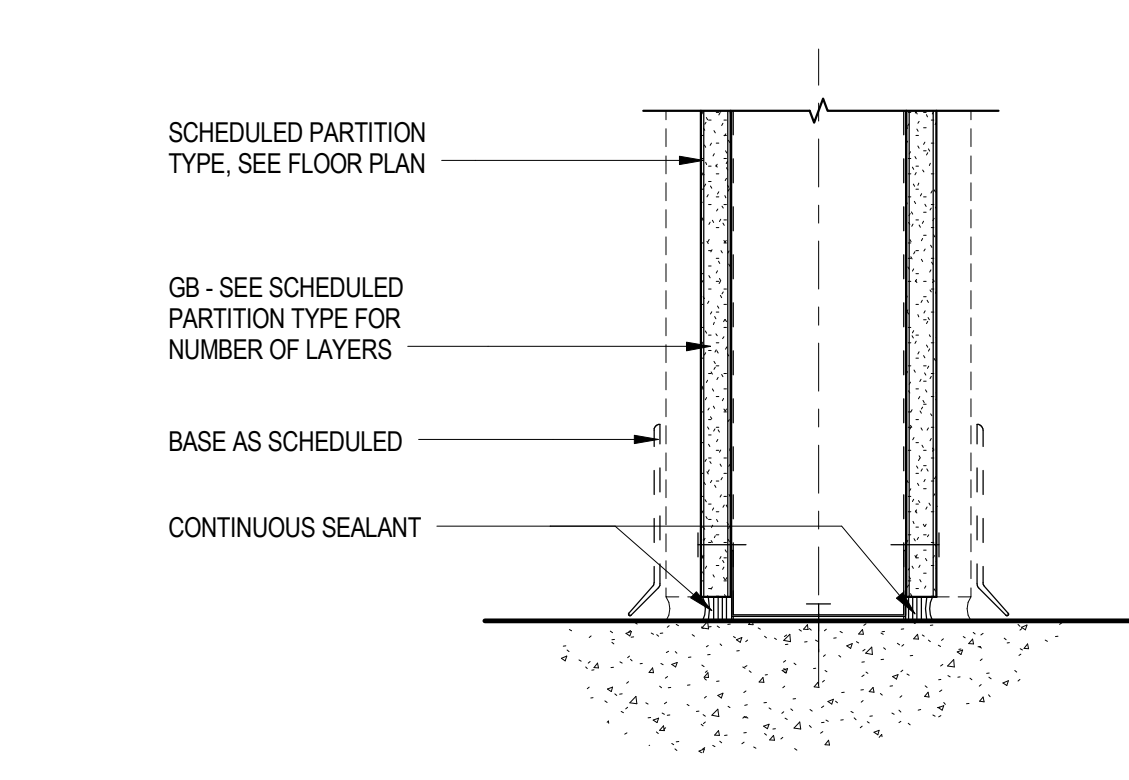
**5 HEAD DETAIL AT PARTITIONS BRACED TO DECK**  
3" = 1'-0"



**4 HEAD DETAIL AT FULL HEIGHT RATED PARTITIONS**  
3" = 1'-0"



**3 HEAD DETAIL AT FULL HEIGHT NON-RATED PARTITIONS**  
3" = 1'-0"



**1 WALL BASE AT PARTITIONS**  
3" = 1'-0"

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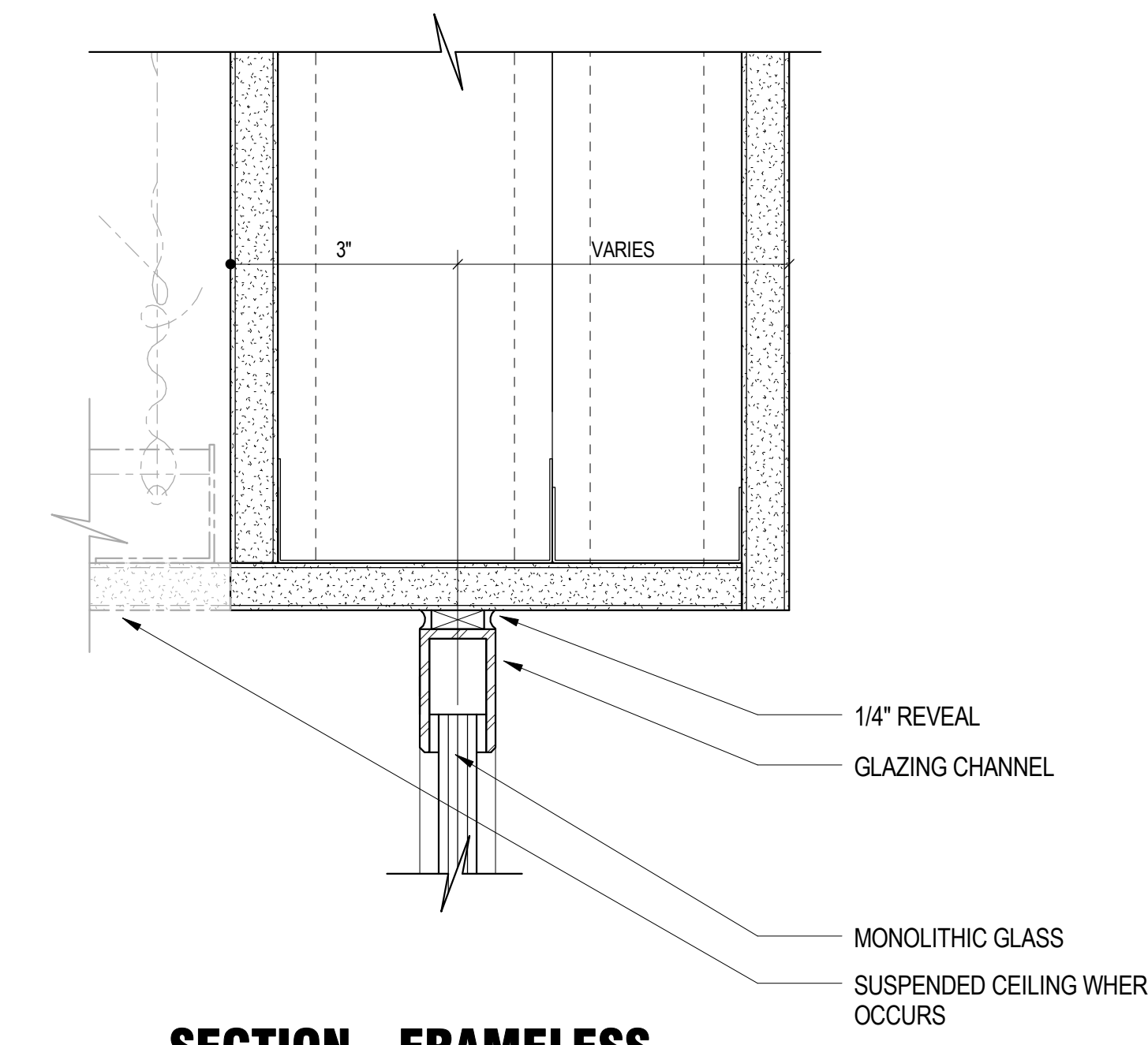
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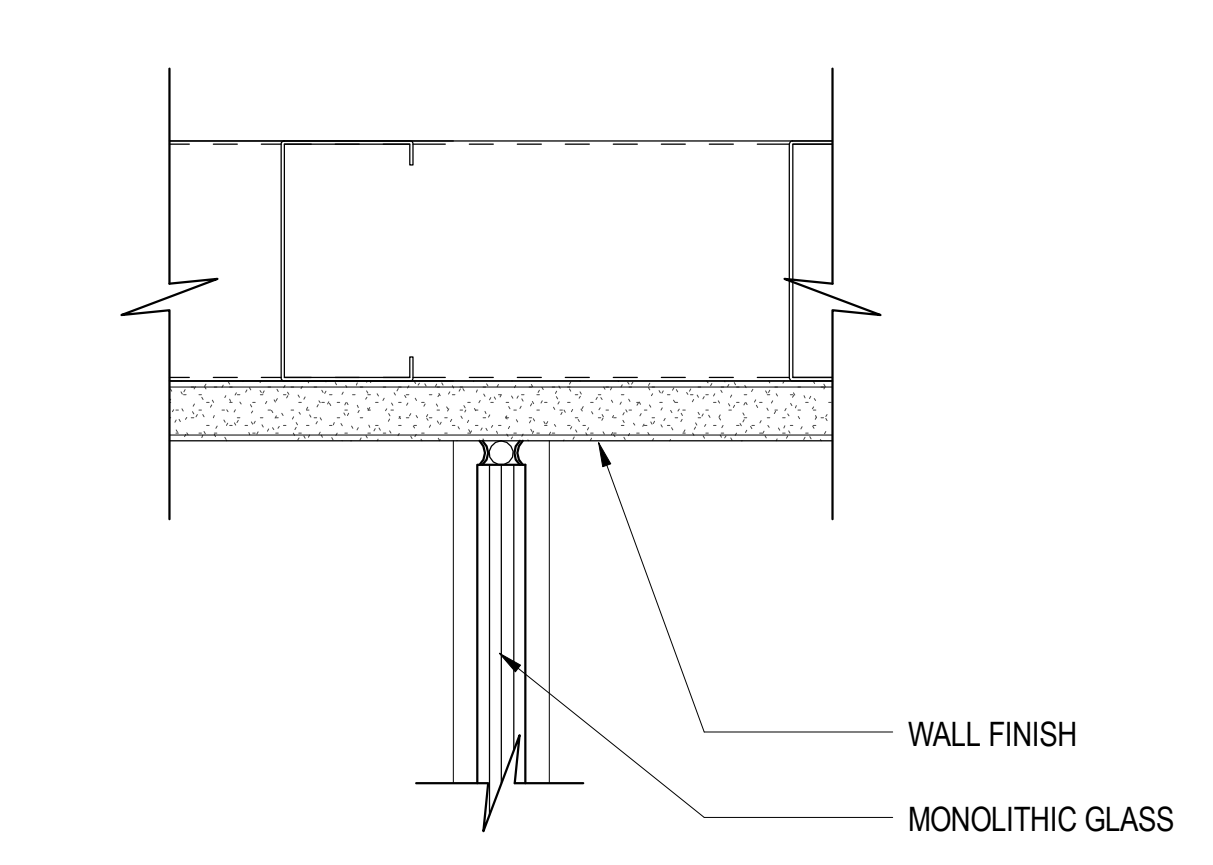
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**PARTITION DETAILS**

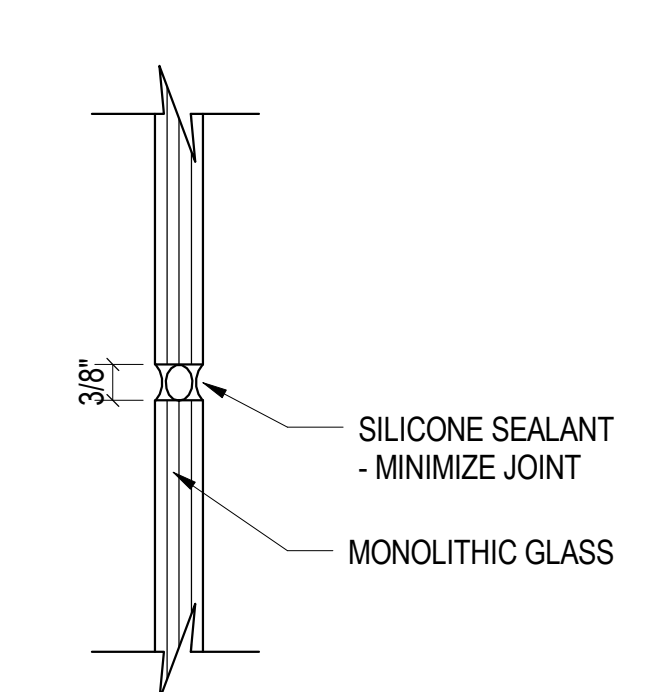
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**A-910**



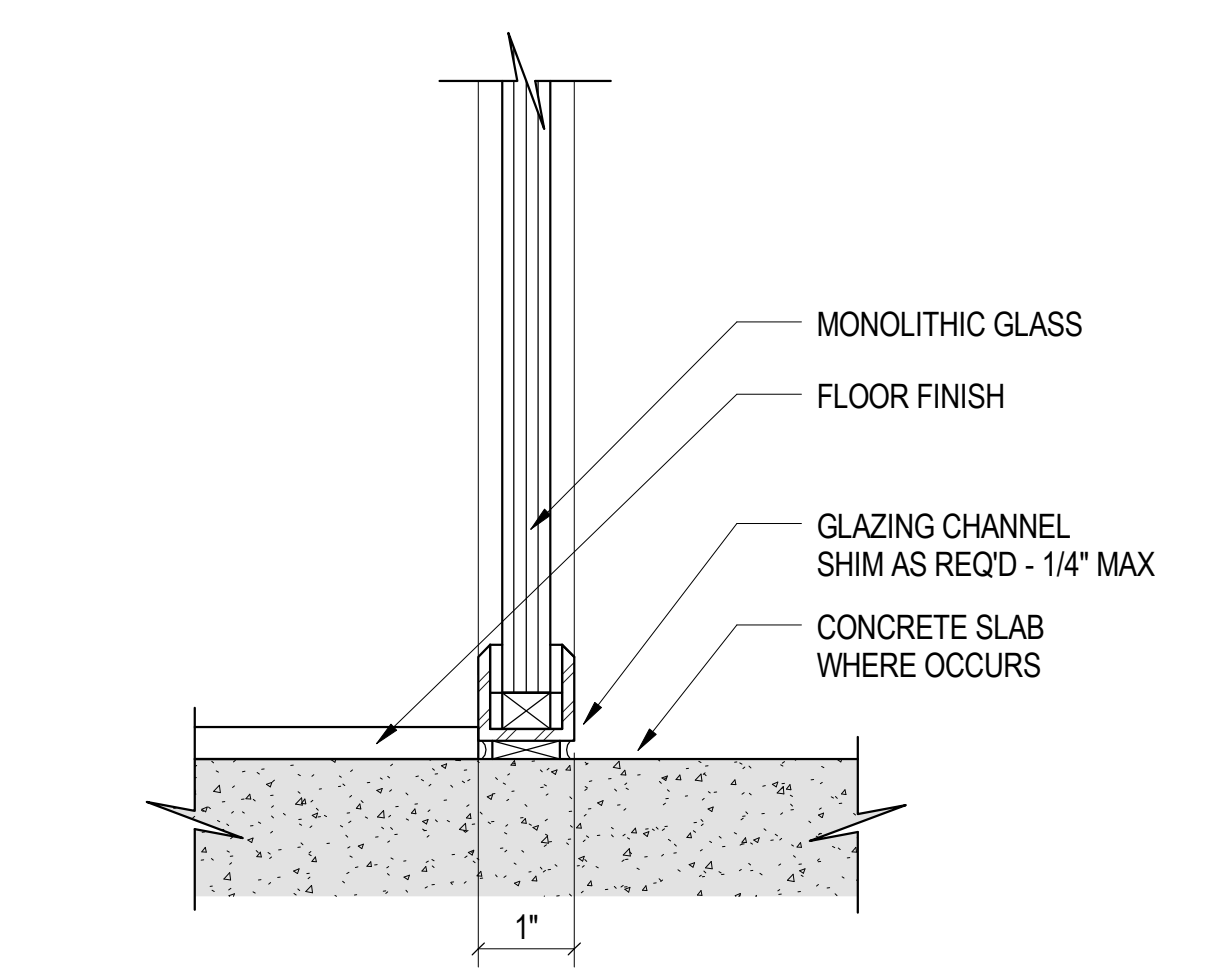
**4 SECTION - FRAMELESS GLAZING HEAD**  
6" = 1'-0"



**3 PLAN - FRAMELESS GLAZING JAMB**  
6" = 1'-0"



**2 PLAN - FRAMELESS GLAZING JOINT**  
6" = 1'-0"



**1 SECTION - FRAMELESS GLAZING SILL**  
6" = 1'-0"

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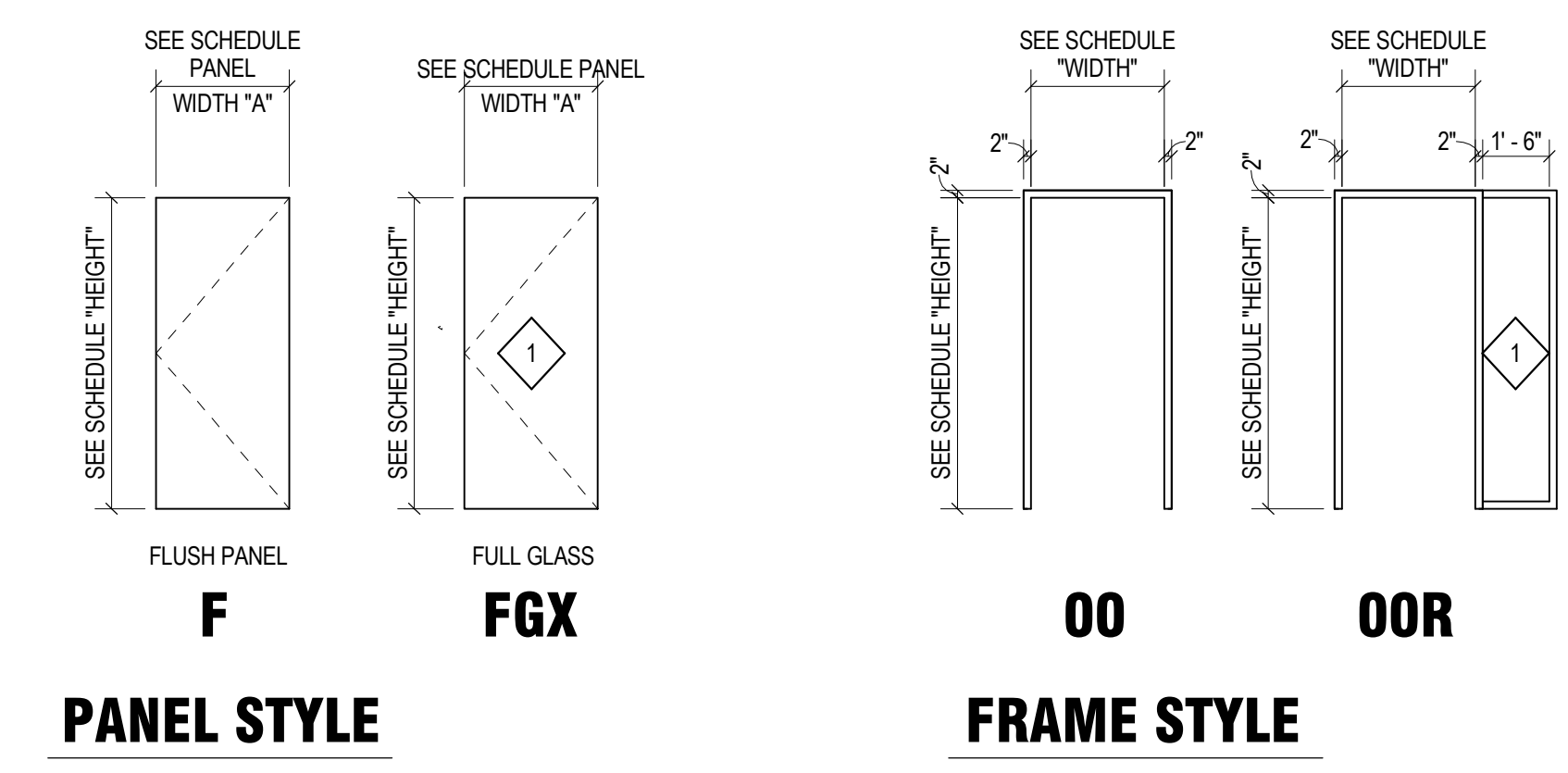
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**INTERIOR DETAILS**

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**ARCHITECTURAL DOOR SCHEDULE**

IDENTIFICATION			DOOR PANEL						DOOR FRAME							HARDWARE	Comments	
ROOM NAME	ROOM NUMBER	DOOR NUMBER	WIDTH	HEIGHT	PANEL STYLE	PANEL WIDTH A	PANEL WIDTH B	PANEL MATERIAL	PANEL FINISH	PANEL INFILL	FIRE RATING	FRAME STYLE	FRAME MATERIAL	FRAME FINISH	DETAILS			
															HEAD DETAIL	JAMB DETAIL	SILL DETAIL	
LOBBY	301	301	6'-0"	7'-0"	FGX	3'-0"	3'-0"	GL				--	--					
ANATOMY	306	302A	3'-0"	7'-0"	FGX	3'-0"		GL				--	--					
COMMON SPACE	302	302B	3'-0"	7'-0"	FGX	3'-0"		GL				--	--					
OFFICE A	304	304	3'-0"	7'-0"	FGX	3'-0"		GL				--	--					
ANATOMY	306	306	4'-6"	7'-0"	FGX	3'-0"	1'-6"	GL				--	--					
LOUNGE	307	307	3'-0"	7'-0"	FGX	3'-0"		GL				--	--					
PROSECTON / MORGUE	309	309	4'-6"	7'-0"	F/F	3'-0"	1'-6"	WD			00	HM						
PROSECTON / MORGUE	309	309	3'-0"	7'-0"	F	3'-0"		WD			00	HM						
WOMENS SHOWER	310	310	3'-0"	7'-0"	F	3'-0"		WD			00	HM						
WOMENS LOCKER	311	311	3'-0"	7'-0"	F	3'-0"		WD			00	HM						
MENS LOCKER	312	312	3'-0"	7'-0"	F	3'-0"		WD			00	HM						
MENS SHOWER	313	313	3'-0"	7'-0"	F	3'-0"		WD			00	HM						
CLASSROOM	314	314	3'-0"	7'-0"	FGX	3'-0"		GL			--	--						
COMMON SPACE	302	315	3'-0"	7'-0"	FGX	3'-0"		GL			--	--						
OFFICE B	316	316	3'-0"	7'-0"	F	3'-0"		WD			00 R	HM						
OFFICE C	317	317	3'-0"	7'-0"	F	3'-0"		WD			00 R	HM						
OFFICE D	318	318	3'-0"	7'-0"	F	3'-0"		WD			00 R	HM						
TELECOM ROOM	319	319	3'-0"	7'-0"	F	3'-0"		WD			00	HM						



**FINISH SCHEDULE**

ROOM NUMBER	ROOM NAME	BASE	WALL	CEILING	FLOOR	NOTES
301	LOBBY	WB01	PT01, PT02, MT01	GB	CONC01, MT01	
302	COMMON SPACE	WB01	PT01, PT02, GL02	GB	CPT01	
303	RECEPTION	WB01	PT01	GB	CPT01	
304	OFFICE A	WB01	PT01, GL02	ACT01	CPT02	
305	COPY	WB01	PT01	GB	CPT01	
306	ANATOMY	WB02	PT01, GL02	ACT02, GB	VCT01, VCT02	
307	LOUNGE	WB01	PT01, PT02, TL03	GB	CONC01	
308	PUBLIC HALLWAY	WB01	PT01, PT02	-	CONC01	
309	PROSECTON / MORGUE	WB02	PT01	GB	VCT01	
310	WOMENS SHOWER	WB03	PT01, TL02	GB	TL01	
311	WOMENS LOCKER	WB01	PT01	GB	VCT01	
312	MENS LOCKER	WB01	PT01	GB	VCT01	
313	MENS SHOWER	WB03	PT01, TL02	GB	TL01	
313	MENS SHOWER	WB01	PT01, PT02, PT03	GB	CPT01	
314	CLASSROOM	WB01	PT01, GL02	TX01	CPT01	
315	CONFERENCE ROOM	WB01	PT01	ACT01	CPT02	
316	OFFICE B	WB01	PT01	ACT01	CPT02	
317	OFFICE C	WB01	PT01	ACT01	CPT02	
318	OFFICE D	WB01	PT01	ACT01	CPT02	
319	TELECOM ROOM	WB01	PT01	-	CONC01	

**MATERIAL LEGEND**

TAG	MATERIAL	DESCRIPTION / MANUFACTURER	FINISH	NOTES
ACT01	ACOUSTIC CEILING TILE	ARMSTRONG OPTIMA		
ACT02	ACOUSTIC CEILING TILE	ARMSTRONG TECH ZONE W/ NYLAR FINISH		
CONC01	SEALED, POLISHED CONCRETE	RETROPLATE	STAINED GRAY, ADA WET	
CPT01	CARPET TILE	INTERFACE NET EFFECT 1	COLOR TBD	CUSTOM LAYOUT W/ 2-3 STYLES
CPT02	CARPET TILE	INTERFACE NET EFFECT 2	COLOR TBD	CUSTOM LAYOUT W/ 2-3 STYLES
GL01	GLASS	1/2" VISION GLASS	CLEAR, TEMPERED	
GL02	GLASS	1/2" BACKPAINTED GLASS	COLOR TBD	
GL03	GLASS	1/2" VISION GLASS	CLEAR W/ GRAPHIC TBD	
LN02	LINOLEUM SHEET	FORBO STRATO	COLOR 2	
MT01	FINISHED METAL	1/2" HOT-ROLLED STEEL PLATE	CLEAR COATED	
PT01	WHITE PAINT		COLOR TBD	
PT02	GREY PAINT		COLOR TBD	
PT03	HIGHLIGHT PAINT		COLOR TBD	
TB01	TACKBOARD	FORBO TACKBOARD	COLOR TBD	
TL01	CERAMIC TILE	DAL-TILE 1X2 PORCELAIN TILE	COLOR TBD	
TL02	CERAMIC TILE	DAL-TILE 4X16 LULITH	GLOSS WHITE	
TL03	GLASS TILE	ACCENT BACKSPLASH	COLOR TBD	
TX01	FELT	COVED TILE BASE	COLOR TBD	
VCT01	VINYL COMP TILE	MONDO HARMONI	COLOR 1	
VCT02	VINYL COMP TILE	MONDO HARMONI	COLOR 2	
WB02	STAINLESS STEEL BASE	6" BASE	STAINLESS STEEL	
WB03	TILE BASE	COVED TILE BASE	GLOSS WHITE	

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**DOOR SCHEDULE/FINISH SCHEDULE**

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**SYMBOLS & ABBREVIATIONS**

<p><b>TEMPERATURE CONTROL SYMBOLS</b></p> <p>AF AIRFLOW MONITOR        AS AVERAGING SENSOR        CO CARBON DIOXIDE SENSOR        CO CARBON MONOXIDE SENSOR        C COIL (HEATING/COOLING)        # CONTROL POINT        CT CURRENT TRANSDUCER        1i DAMPER MOTOR ACTUATOR IDENTIFICATION        DP DIFFERENTIAL PRESSURE SWITCH        DS DUCT SMOKE DETECTOR        ES END SWITCH        # EQUIPMENT IDENTIFICATION        F FILTER        FS FLOW SWITCH        H HUMIDITY SENSOR        I IN-LINE DEVICE        R INTERFACE RELAY        L LIGHT (PILOT OR ANNUNCIATOR)        LL LIGHT WITH AUDIO ANNUNCIATOR        LL LOW LIMIT FREEZESTAT</p> <p><b>TEMPERATURE CONTROL ABBREVIATIONS</b></p> <p>AF AIR FLOW        AI ANALOG INPUT        AO ANALOG OUTPUT        C COMMON        CIRC CIRCULATION        CWR CHILLED WATER RETURN        CWS CHILLED WATER SUPPLY        DDC DIRECT DIGITAL CONTROL        DI DIGITAL INPUT        DO DIGITAL OUTPUT        EA EXHAUST AIR        EF EXHAUST FAN        EMCS ENERGY MANAGEMENT &amp; CONTROL SYSTEM        EXH EXHAUST        HWR HOT WATER RETURN</p>	<p>MOTOR STARTER        MOTOR STARTER WITH CURRENT SENSING RELAY        MOTORIZED DAMPER        OCCUPANCY SENSOR        POINT SENSOR        PRESSURE SENSOR        PUMP        REFRIGERANT MONITOR        SENSOR        SOLENOID VALVE ACTUATOR        STATIC PRESSURE SENSOR        SWITCH        SWITCH WITH GUARDED COVER        SWITCH WITH PILOT LIGHT        TEMPERATURE TRANSMITTER        TEMPERATURE TRANSMITTER WITH SUN SHIELD        THERMOWELL        VALVE MOTOR ACTUATOR IDENTIFICATION        WATERFLOW METER        2-WAY MODULATING VALVE        3-WAY MODULATING VALVE        2-OR 3-WAY MODULATING VALVE (SEE PLANS OR DETAILS FOR REQUIREMENTS)</p> <p>HWS HOT WATER SUPPLY        MBC MODULAR BUILDING CONTROLLER        MEC MODULAR EQUIPMENT CONTROLLER        OSA OUTSIDE AIR        RA RETURN AIR        RF RETURN FAN        RLF RELIEF FAN        SA SUPPLY AIR        SCU STANDALONE CONTROL UNIT        SF SUPPLY FAN        TEC TERMINAL CONTROL UNIT        UC UNITARY CONTROLLER        VFD VARIABLE FREQUENCY DRIVE        WF WATER FLOW</p>	<p><b>PLUMBING/PIPING LEGEND</b></p> <p>--- DOMESTIC COLD WATER        --- DOMESTIC HOT WATER        --- DOMESTIC RECIRCULATED WATER        -DSP- DRY STAND PIPE        -F- FIRE        -FDC- FIRE DEPARTMENT CONNECTION PIPE        -IW- INDIRECT WASTE (ABOVE FLOOR)        -G- NATURAL GAS (7" WC, UNLESS OTHERWISE NOTED)        -ODL- OVERFLOW DRAIN LINE        -RDL- ROOF DRAIN LINE        -SD- STORM DRAIN        -SS- SANITARY SEWER        -SHR- SOLAR HEATING RETURN        -SHS- SOLAR HEATING SUPPLY        -V- VENT        -W- WASTE        -W (BELOW GRADE)        -W (BELOW GRADE)</p> <p><b>HYDRONIC PIPING LEGEND</b></p> <p>-CWR- CHILLED WATER RETURN        -CWS- CHILLED WATER SUPPLY        -CD- CONDENSATE DRAIN        -CDR- CONDENSER RETURN        -CDS- CONDENSER SUPPLY        -HR- HEAT PUMP RETURN        -HS- HEAT PUMP SUPPLY        -HWR- HOT WATER RETURN        -HWS- HOT WATER SUPPLY        -PC- PUMPED CONDENSATE        -SMR- SNOW MELT RETURN        -SMS- SNOW MELT SUPPLY</p> <p><b>STEAM PIPING LEGEND</b></p> <p>-HPS- HIGH PRESSURE STEAM        -HPC- HIGH PRESSURE STEAM CONDENSATE        -LPS- LOW PRESSURE STEAM        -LPC- LOW PRESSURE STEAM CONDENSATE        -MPS- MEDIUM PRESSURE STEAM        -MPC- MEDIUM PRESSURE STEAM CONDENSATE        -STM- STEAM</p> <p><b>LAB AND MEDICAL PIPING LEGEND</b></p> <p>-PWS- PURE WATER SUPPLY        -PWR- PURE WATER RETURN        -NPCIW- NON-POTABLE COLD WATER        -NPHW- NON-POTABLE HOT WATER        -NPHWR- NON-POTABLE HOT WATER RETURN        -CO2- CARBON DIOXIDE        -DI- DEIONIZED WATER        -DW- DISTILLED WATER        -MA- MEDICAL AIR        -N2- NITROGEN        -NO2O- NITROUS OXIDE        -O2- OXYGEN        -RO- REVERSE OSMOSIS        -VAC- VACUUM        -LV- LAB VENT        -LW- LAB WASTE</p> <p><b>INDUSTRIAL PIPING LEGEND</b></p> <p>-ACT- ACETYLEN        -A- AIR        -ARG- ARGON        -HE- HELIUM        -H- HYDROGEN        -TM- TRI-MIX</p> <p><b>FUEL PIPING LEGEND</b></p> <p>-DF- DIESEL FUEL        -FFP- FUEL FILL PIPE        -FOF- FUEL OIL FILL        -FOR- FUEL OIL RETURN        -FOS- FUEL OIL SUPPLY        -FV- FUEL VENT        -GF- GASOLINE FUEL        -LP FILL- LIQUID PROPANE FILL        -LPG- LIQUID PROPANE GAS        -VRP- STAGE ONE VAPOR RECOVERY PIPE</p> <p><b>MISCELLANEOUS PIPING LEGEND</b></p> <p>-AR- ACID RESISTANT VENT        -ARW- ACID RESISTANT WASTE        -GW- GREASE WASTE        -RR- REFRIGERANT PIPING RETURN        -RS- REFRIGERANT PIPING SUPPLY        -SCW- SOFT COLD WATER        -SHW- SOFT HOT WATER        -(DEG F)- TEMPERED WATER AT TEMPERATURE INDICATED        -BW- BLENDED WATER</p>	<p><b>PLUMBING/PIPING SYMBOLS</b></p> <p>BALL VALVE        BUTTERFLY VALVE        ANGLE VALVE        CHECK VALVE        CAP        PRESSURE GAUGE        PRESSURE AND TEMPERATURE RELIEF VALVE        GAS &amp; WATER PRESSURE REDUCING VALVE (POINTS TOWARDS LOW PRESSURE)        ROOF DRAIN        SANITARY CROSS        SANITARY ELBOW        SANITARY TEE        SANITARY TEE IN RISER        SOLENOID VALVE        TEE        TEE DOWN        TEE DOWN TO ELBOW        TEE UP        TEE UP TO ELBOW        TEE UP TO RISE        UNION/COUPLING        VALVE IN RISER        VALVE WITH TAMPER SWITCH        VENT THRU ROOF        WATER HAMMER ARRESTER        WYE</p> <p><b>HYDRONIC PIPING SYMBOLS</b></p> <p>2-WAY CONTROL VALVE        3-WAY MODULATING CONTROL VALVE        AIR SEPARATOR        AUTOMATIC AIR VENT        ELECTRO-PNEUMATIC CONTROL VALVE        GAUGE COCK        MANUAL AIR VENT        MOTOR OPERATED VALVE</p> <p><b>MISCELLANEOUS PLUMBING SYMBOLS</b></p> <p>ANGLE STOP/CHECK VALVE        AUTOMATIC BALL DRIP        BALL VALVE        BLOW DOWN VALVE        BUTTERFLY VALVE        CONNECTION POINT        DIAPHRAGM VALVE        DOWNSPOUT NOZZLE        GATE VALVE        GATE VALVE, NON-RISING STEM</p> <p><b>PLUMBING ABBREVIATIONS</b></p> <p>CI CAST IRON        CO CLEAN-OUT        COW CLEAN-OUT IN WALL        COTF CLEAN-OUT TO FLOOR        COTG CLEAN-OUT TO GRADE        FD FLOOR DRAIN        FRFP FREEZE RESISTANT WALL HYDRANT        FS FLOOR SINK        GPM GALLONS PER MINUTE        GTV GAS TANK VENT        IE INVERT ELEVATION</p> <p><b>ANNOTATION</b></p> <p>P# FIXTURE ITEM NUMBER (P1)        #FD# FLOOR DRAIN SIZE AND TYPE (2"FD-1)        #FS# FLOOR SINK SIZE AND TYPE (2"FS-1)        #RD# ROOF DRAIN SIZE AND TYPE (2"RD-1)</p> <p>IW INDIRECT WASTE        PRV PRESSURE REDUCING VALVE        PSI POUNDS PER SQUARE INCH        PSF POUNDS PER SQUARE FOOT        RD ROOF DRAIN        RRPB REDUCED PRESSURE BACKFLOW PREVENTER        SV SUMP VENT        VTR VENT THRU ROOF        WC WATER COLUMN        WHA WATER HAMMER ARRESTER</p> <p>PIPE ANCHOR        PIPE CONTIGUOUS ALTHOUGH NOT DRAWN        PIPE GUIDE        PIPE SLEEVE        PRESSURE GAUGE        PRESSURE AND TEMPERATURE RELIEF VALVE        GAS &amp; WATER PRESSURE REDUCING VALVE (POINTS TOWARDS LOW PRESSURE)        ROOF DRAIN        SANITARY CROSS        SANITARY ELBOW        SANITARY TEE        SANITARY TEE IN RISER        SOLENOID VALVE        TEE        TEE DOWN        TEE DOWN TO ELBOW        TEE UP        TEE UP TO ELBOW        TEE UP TO RISE        UNION/COUPLING        VALVE IN RISER        VALVE WITH TAMPER SWITCH        VENT THRU ROOF        WATER HAMMER ARRESTER        WYE</p> <p>P-TRAP        PRESSURE INDEPENDENT BALANCING VALVE        PRESSURE SWITCH        SIGHT GLASS        STRAIGHT THRU MODULATING CONTROL VALVE        STRAINER        THERMOMETER        THERMOWELL        VENTURI</p> <p>KNIFE GATE VALVE        PLUG VALVE        SERRATED COCK (COUNTER-TOP MOUNTED)        SERRATED COCK (WALL MOUNTED)        SHOWER HEAD        STOP/CHECK VALVE        TRAP SET (AS SPECIFIED)        # INDICATES TRAP TYPE        THRUST RESTRAINT</p>	<p><b>GENERAL SYMBOLS</b></p> <p># KEY NOTE        # EQ# EQUIPMENT IDENTIFIER        # DETAIL NUMBER        # DETAIL REFERENCE        # SHEET NUMBER        # DETAIL NUMBER        # DETAIL REFERENCE        # MATCHED SHEET NUMBER        # CURRENT SHEET NUMBER</p> <p>ROOM ROOM NUMBER        CONNECTION TO EXISTING (# INDICATES EXISTING SIZE)        REVISION NUMBER        SECTION NUMBER        SECTION REFERENCE        SHEET NUMBER        NORTH ARROW        CENTER LINE</p> <p><b>LINEWEIGHT LEGEND</b></p> <p>NEW WORK        EXISTING TO REMAIN OR NOT IN CONTRACT        DEMOLITION        FUTURE WORK</p> <p><b>ABBREVIATIONS</b></p> <p>ABV ABOVE        AFF ABOVE FINISH FLOOR        AFG ABOVE FINISH GRADE        AL ALUMINUM        BLDG BUILDING        CLG CEILING        CP CHROME PLATED        CU COPPER        DIA DIAMETER        DIV DIVISION        DWG DRAWING        EA EACH        FLR FLOOR, OR FLOOR MOUNTED        FT FEET        GA GAUGE        H HIGH        HT HEIGHT        L LONG        N INCHES</p> <p>MAX MAXIMUM        MFR MANUFACTURER        MN MINIMUM        MNT MOUNTED        N.C. NORMALLY CLOSED        NIC NOT IN CONTRACT        N.O. NORMALLY OPEN        REQD REQUIRED        RM ROOM        SMI SIMILAR        SS STAINLESS STEEL        TYP TYPICAL        W WIDE        W WITH        WIN WITHIN        W/O WITHOUT        Ø DIAMETER        (E) EXISTING TO REMAIN        (N) NEW</p> <p>++X+ MOUNTING HEIGHT (AFF OR AFG)</p> <p><b>HVAC SYMBOLS</b></p> <p>RECTANGULAR SUPPLY DUCT (SECTION)        RECTANGULAR RETURN DUCT (SECTION)        RECTANGULAR EXHAUST DUCT (SECTION)        RECTANGULAR OSA DUCT (SECTION)        ROUND SUPPLY DUCT (SECTION)        ROUND RETURN DUCT (SECTION)        ROUND EXHAUST DUCT (SECTION)        ROUND OSA DUCT (SECTION)        FLAT OVAL SUPPLY DUCT (SECTION)        DUCTWORK WITH INTERNAL LINING        ALUMINUM/STAINLESS STEEL DUCTWORK (AS SPECIFIED)        FLEXIBLE DUCT        DUCT OFFSET AND DIRECTION        ROUND MITERED ELL W/ TURNING VANES        TURNING VANES        AIR SPLIT TAKEOFF        SINGLE BLADE VOLUME DAMPER        OPPOSED BLADE VOLUME DAMPER        FIRE/SMOKE DAMPER        RECTANGULAR DUCT SIZE (WIDTHxDEPTH)        CIRCULAR DUCT DIAMETER        FLAT OVAL DUCT SIZE (WIDTHxDEPTH)</p> <p><b>MECHANICAL ABBREVIATIONS</b></p> <p>AH AIR HANDLING UNIT        AS AIR SEPARATOR        AT ATTENUATOR        BLR BLOWER        CFM CUBIC FEET PER MINUTE        CIRC CIRCULATION        CRP CONDENSATE RETURN PUMP        CWP CHILLED WATER PUMP        EF EXHAUST FAN        ET EXPANSION TANK        EXH EXHAUST        FC FAN COIL UNIT        FPM FEET PER MINUTE        GF GLYCOL FEEDER        GRD GRILL/REGISTER/DIFFUSER</p> <p>HWP HEATING WATER PUMP        OBVD OPPOSED BLADE VOLUME DAMPER        OSA OUTSIDE AIR        PRV PRESSURE REDUCING VALVE        PSI POUNDS PER SQUARE INCH        RA RETURN AIR        RC ROOF COIL        SC STEAM CONVERTOR        ST STATIC PRESSURE        ST STORAGE TANK        UH UNIT HEATER        VEL VELOCITY        WH WATER HEATER</p> <p>AH# AIR HANDLING UNIT NUMBER (AH-1)        AS# AIR SEPARATOR (AS-1)        AT# ATTENUATOR NUMBER (AT-1)        BLR# BLOWER NUMBER (BLR-1)        CU# CONDENSER UNIT NUMBER (CU-1)        EF# EXHAUST FAN NUMBER (EF-1)        ET# EXPANSION TANK NUMBER (ET-1)        FC# FAN COIL UNIT (FC-1)</p> <p>GF# GLYCOL FEEDER (GF-1)        L# LOUVER NUMBER (L-1)        RC# ROOF COIL NUMBER (RC-1)        SC# STEAM CONVERTOR (SC-1)        ST# STORAGE TANK (ST-1)        UH# UNIT HEATER NUMBER (UH-1)        WH# WATER HEATER (WH-1)</p> <p><b>ANNOTATION</b></p> <p>1. LOAD CALCULATIONS WERE PERFORMED PER ASHRAE STD. 183.        2. EQUIPMENT CAPACITIES WERE SELECTED TO CONFORM WITH THE REQUIREMENTS OF THE 2012 WSEC SECTION C403.2.2.</p>
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Project Key Plan

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Rev Date Description

Project Title

University of Idaho

**University of Idaho WWAMI**

700 S MAIN ST, MOSCOW, ID 83843

**WWAMI**

GRITMAN BUILDING

Project Phase  
 DESIGN DEVELOPMENT

Date 12/06/16  
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**LEGENDS & ABBREVIATIONS - MECHANICAL**

Sheet Number **M-001**  
 Rev. No.

**PLUMBING FIXTURE SCHEDULE**

Fix #	FIXTURE DESCRIPTION	MANUFACTURER	MODEL	WASTE	VENT	HW	CW	BW	NOTES
P1	ADA WATER CLOSET	-	-	4"	2"	-	1"	-	-
P2	ADA LAVATORY	-	-	1-1/2"	1-1/2"	1/2"	1/2"	-	-
P3	ADA SHOWER	SWANSTONE	-	2"	2"	1/2"	1/2"	-	-
P4	LOUNGE SINK	-	-	1-1/2"	1-1/2"	1/2"	1/2"	-	-
P5	EMERGENCY SHOWER/EYEWASH	-	-	2"x3"FD-1	2"	1"	1"	1-1/4"	-
P6	SERVICE SINK	-	-	3"	2"	1/2"	1/2"	-	-

**LAB EQUIPMENT SCHEDULE**

LE#	DESCRIPTION	WASTE	VENT	CW	HW	REMARKS
L-1	DOUBLE BOWL SCRUB SINK	2"	2"	1/2"	1/2"	-
L-2	PATHOLOGY WORKSTATION	1-1/2"	1-1/2"	1/2"	1/2"	-
L-3	AUTOPSY TABLE	1-1/2"	1-1/2"	1/2"	1/2"	-
L-4	SCULLERY SINK	2"	2"	1/2"	1/2"	-

**MIXING VALVE SCHEDULE**

MV#	MFR	MODEL	CW INLET	HW INLET	BW OUTLET	MOUNTING TYPE	MOUNTING HEIGHT	OUTLET TEMPERATURE	NOTES
MV-1	-	-	1"	1"	1 1/4"	WALL	0"	120 °F	-

**DRAIN SCHEDULE**

TYPE MARK	MFR	MODEL #	BODY			STRAINER		VARIATIONS	NOTES
			TYPE	STYLE	MATERIAL	STYLE	MATERIAL		
FD-1									

**ELECTRONIC TRAP PRIMER SCHEDULE**

ETP#	MFR	MODEL #	CW INLET	OUTLET	MOUNTING TYPE	ELECTRICAL REMARKS	NOTES
ETP-1	PPP INC.	MBP-600-115V	3/4"	(2) 1/2"	WALL MOUNT	120V, 1Φ, 60Hz, 0.28 AMP	-

**GAS REGULATOR SCHEDULE**

TAG	MAN	MODEL #	INLET PRESSURE	OUTLET PRESSURE	PRESSURE CAPACITY (CFH)	ORIFACE SIZE	NOTES
GR-1							

**HOT WATER RECIRCULATION PUMP SCHEDULE**

#	MFR	MODEL #	SERVICE	TYPE	RPM	ELECTRICAL					NOTES
						HP	V	PH	HZ	AMPS	
HWRP-1	-	-	BUILDING SERVICE	IN-LINE	3250	1/8	115	1	60	0.00	-
HWRP-2	-	-	TANK RECIRCULATION	IN-LINE	3250	1/8	115	1	60	0.00	-

**WATER HEATER SCHEDULE**

TAG	MFR	MODEL #	CAPACITY (GAL)	FUEL	BTU/HR INPUT	MIN. ENERGY FACTOR	ASME	NOTES
WH-1	RHEEM-RUUD	HE80-130	80.0	NAT. GAS	130,000	-	-	-
ST-1	RHEEM-RUUD	ST-80	80.0	-	0	-	-	-

**VARIABLE REFRIGERANT FLOW INDOOR UNIT SCHEDULE**

FC#	MFR	MODEL #	SERVICE	OUTDOOR UNIT	PEAK AIRFLOW (CFM)	OSA (CFM)	ESP (\"WG)	COOLING					HEATING			ELECTRICAL		NOTES		
								ACTUAL CAP. (MBH)		CALCULATED CAP. (MBH)		SETPPOINT	ACTUAL CAP. (MBH)		CALCULATED CAP. (MBH)		SETPPOINT		A	VOLTS/Ø
								TOTAL	SENS.	TOTAL	SENS.		TOTAL	SENS.	TOTAL	SENS.				
IN-3.4	MTSUBISHI	PLFY-P48	CLASSROOM 320	-	-	-	0.75	-	-	-	-	75/85	-	-	72/55	-	120/1			
IN-3.5	MTSUBISHI	PLFY-P48	COMMON SPACE 302	-	-	-	0.75	-	-	-	-	75/85	-	-	72/55	-	120/1			
IN-3.6	MTSUBISHI	PLFY-P06	OFFICE A 304	-	-	-	0.75	-	-	-	-	75/85	-	-	72/55	-	120/1			
IN-3.7	MTSUBISHI	PLFY-P12	LOUNGE 307	-	-	-	0.75	-	-	-	-	75/85	-	-	72/55	-	120/1			
IN-3.8	MTSUBISHI	PLFY-P12	CONFERENCE ROOM 321	-	-	-	0.75	-	-	-	-	75/85	-	-	72/55	-	120/1			
IN-3.9	MTSUBISHI	PLFY-P06	OFFICES 323/325/327	-	-	-	0.75	-	-	-	-	75/85	-	-	72/55	-	120/1			
IN-3.10	MTSUBISHI	PLFY-P15NCMU	PROSECTION 309	-	-	-	0.75	-	-	-	-	75/85	-	-	72/55	-	120/1			
IN-3.11	MTSUBISHI	PLFY-P15NCMU	MORGUE 309	-	-	-	0.75	-	-	-	-	75/85	-	-	72/55	-	120/1			
IN-3.12	MTSUBISHI	PLFY-P24NBMU	ANATOMY 306	-	-	-	0.75	-	-	-	-	75/85	-	-	72/55	-	120/1			
IN-3.13	MTSUBISHI	PLFY-P24NBMU	ANATOMY 306	-	-	-	0.75	-	-	-	-	75/85	-	-	72/55	-	120/1			

NOTES:

**LAB PACKAGED ROOFTOP HEAT RECOVERY UNIT SCHEDULE**

#	MFR	MODEL #	SERVICE	SA (CFM)	EA (CFM)	SENS. CLG (TONS)	HTG INPUT (MBH)	HTG OUTPUT (MBH)	ELECTRICAL		WEIGHT (LBS)	NOTES
									A	VOLTS/Ø		
HRU-1	XETEX	XHS-##	ANATOMY	6500	9000	30	800	640	94.7	480/3	18,000	

NOTES:  
 100% OUTSIDE AIR, STAINLESS STEEL, FLAT PLATE HEAT EXCHANGER, PACKAGED ROOFTOP UNIT, DX COOLING, INDIRECT GAS FIRED HEAT, SUPPLY FAN, EXHAUST FAN, MERV 8 PRE-FILTERS & EXHAUST AIR FILTERS & MERV 13 FINAL FILTERS, MOTORIZED INTAKE AND EXHAUST DAMPERS, BUILT-IN FROST CONTROL, SINGLE POINT ELECTRICAL CONNECTION WITH FACTORY MOUNTED VPDS ON SUPPLY AND EXHAUST FANS.  
 RTU CONTROLS SHALL CONTROL STAGING/MODULATION OF HEATING AND COOLING BASED ON SIGNAL FROM THE BAS & SHALL PROVIDE FROST CONTROL. BAS SHALL CONTROL FAN SPEED & DAMPER OPERATION.

SEE PLANS FOR ADDITIONAL EQUIPMENT NOT SCHEDULED ON THIS SHEET.

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700 S MAIN ST, MOSCOW, ID 83843

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GRITMAN BUILDING

Project Phase

DESIGN DEVELOPMENT

Date

12/06/16

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Sheet Title

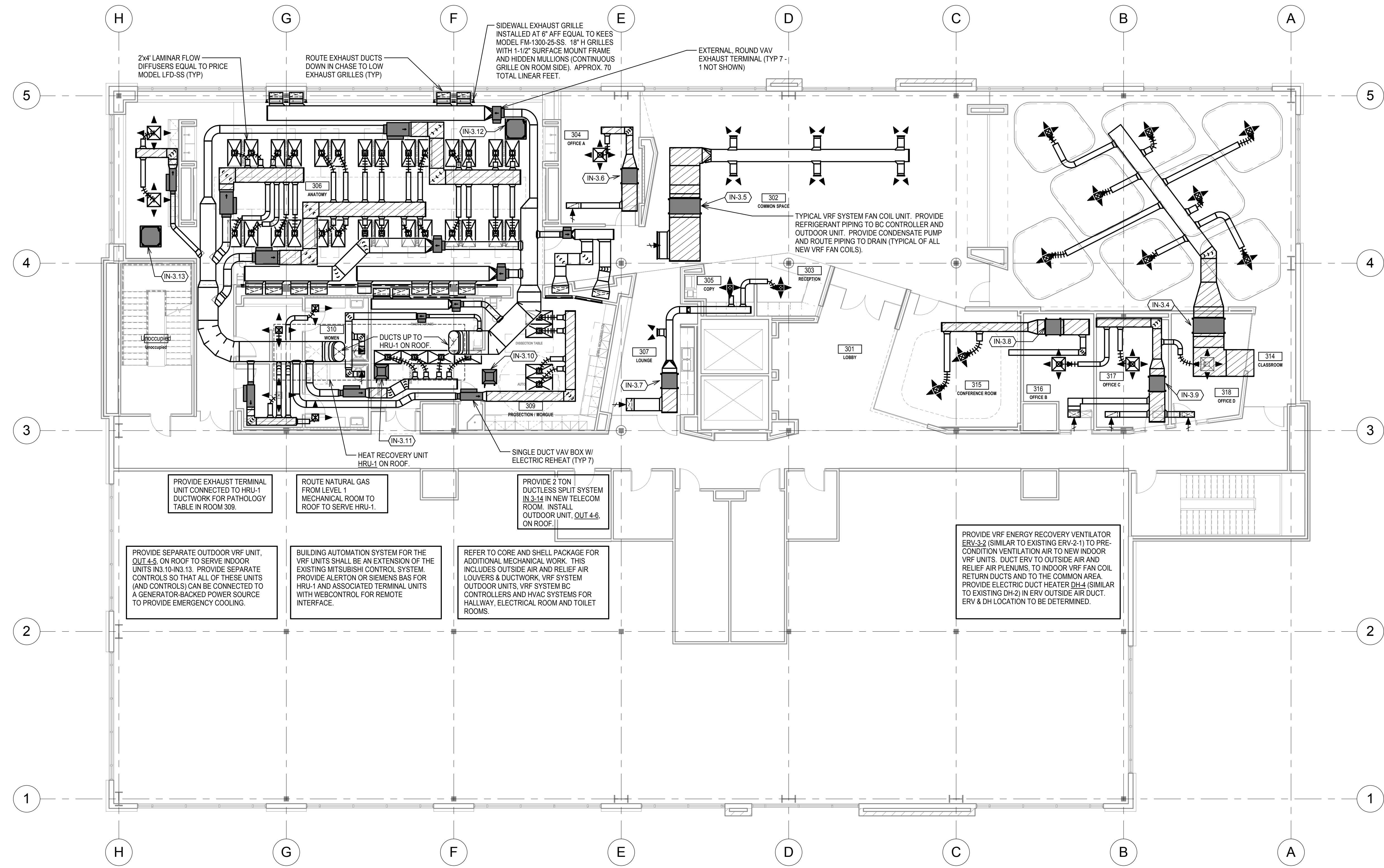
SCHEDULES - MECHANICAL

Sheet Number

M-002

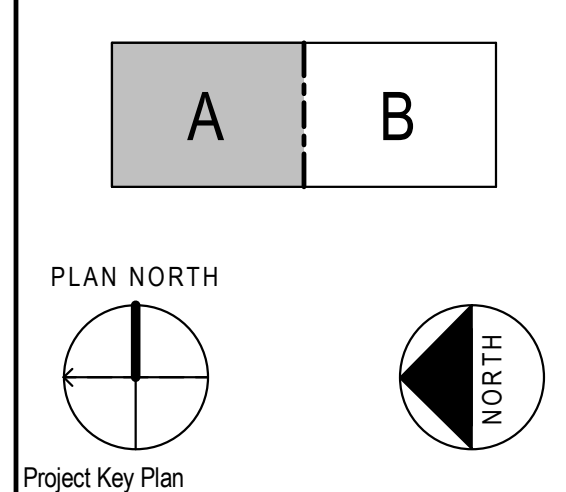
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TAB 8 Page 44



**LEVEL 3 FLOOR PLAN - HVAC**  
 1/8" = 1'-0"

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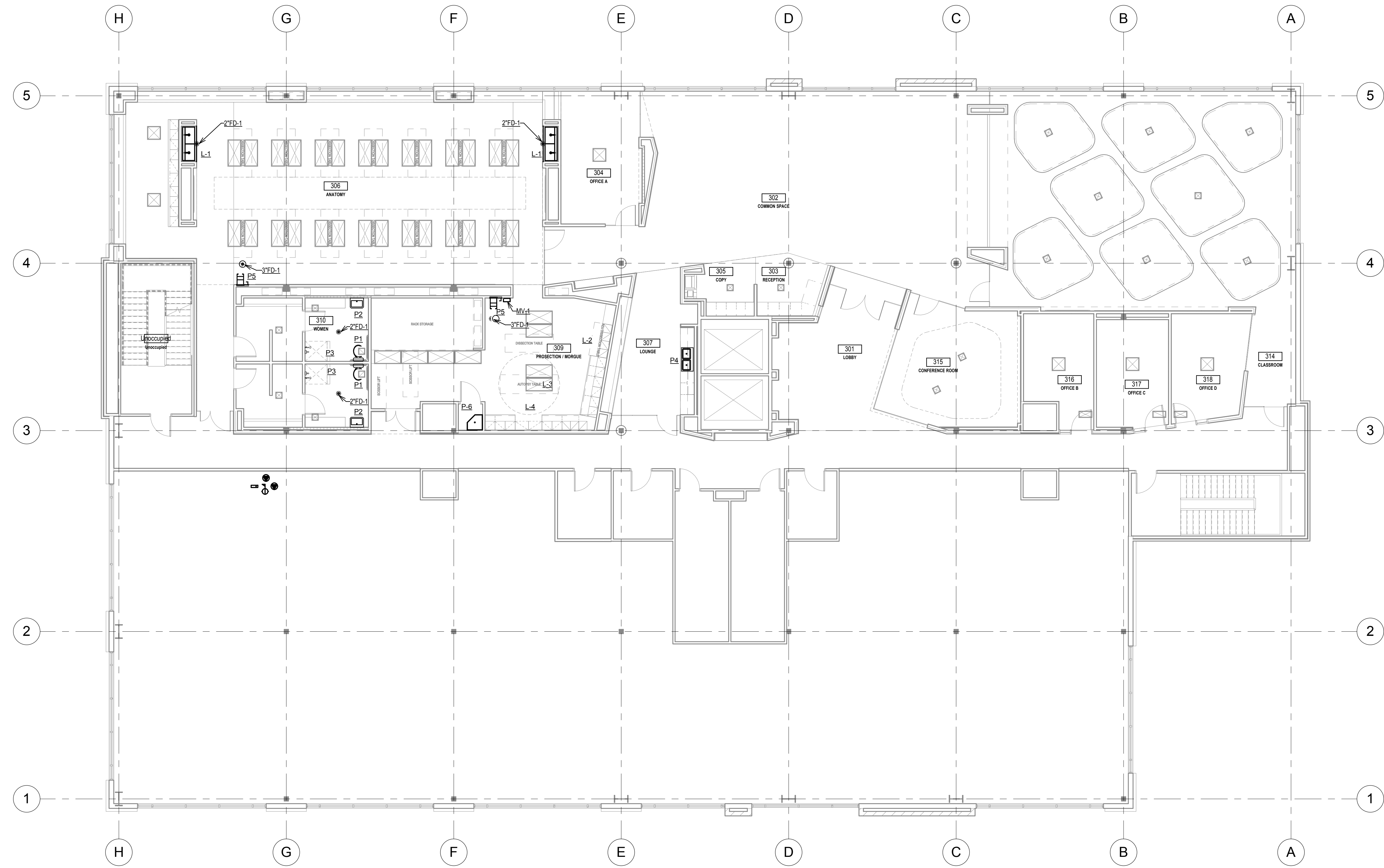
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Project Phase  
**DESIGN DEVELOPMENT**

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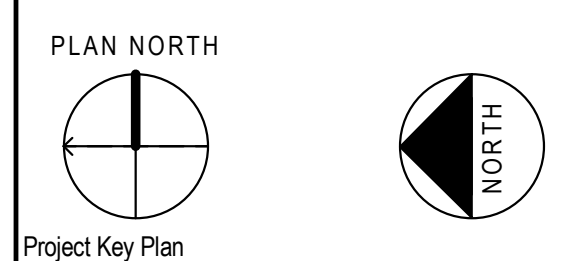
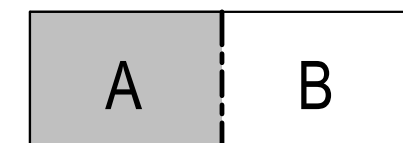
Sheet Title  
**LEVEL 3 FLOOR PLAN - HVAC**

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**LEVEL 3 FLOOR PLAN - PLUMBING**  
 1/8" = 1'-0"

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Sheet Title  
**LEVEL 3 FLOOR PLAN - PLUMBING**

Sheet Number <b>M-232</b>	Rev. No.
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**COMMUNICATIONS SYMBOLS**

	1-PORT CEILING OUTLET, (1) 1-PORT FACEPLATE WITH (1) 8-POSITION CAT6 RJ-45 JACK (DATA ONLY), CEILING MOUNTED IN ACCESSIBLE CEILING SPACE, UNLESS NOTED OTHERWISE. REFER TO SHEET ____ DETAIL_ FOR OUTLET DETAIL.
	2-PORT CEILING OUTLET, (1) 2-PORT FACEPLATE WITH (2) 8-POSITION CAT6 RJ-45 JACKS (TWO DATA), CEILING MOUNTED IN ACCESSIBLE CEILING SPACE, UNLESS NOTED OTHERWISE. REFER TO SHEET ____ DETAIL_ FOR OUTLET DETAIL.
	3-PORT CEILING OUTLET, (1) 3-PORT FACEPLATE WITH (3) 8-POSITION CAT6 RJ-45 JACKS (THREE DATA), CEILING MOUNTED IN ACCESSIBLE CEILING SPACE, UNLESS NOTED OTHERWISE. REFER TO SHEET ____ DETAIL_ FOR OUTLET DETAIL.
	4-PORT CEILING OUTLET, (1) 4-PORT FACEPLATE WITH (4) 8-POSITION CAT6 RJ-45 JACKS (FOUR DATA), CEILING MOUNTED IN ACCESSIBLE CEILING SPACE, UNLESS NOTED OTHERWISE. REFER TO SHEET ____ DETAIL_ FOR OUTLET DETAIL.
	6-PORT CEILING OUTLET, (1) 6-PORT FACEPLATE WITH (6) 8-POSITION CAT6 RJ-45 JACKS (SIX DATA), CEILING MOUNTED IN ACCESSIBLE CEILING SPACE, UNLESS NOTED OTHERWISE. REFER TO SHEET ____ DETAIL_ FOR OUTLET DETAIL.
	1-PORT COMMUNICATIONS OUTLET, (1) 1-PORT FACEPLATE WITH (1) 8-POSITION CAT6 RJ-45 JACK (DATA ONLY), WALL FLUSH MOUNTED 18" AFF, UNLESS NOTED OTHERWISE. REFER TO SHEET ____ DETAIL_ FOR OUTLET DETAIL.
	2-PORT COMMUNICATIONS OUTLET, (1) 2-PORT FACEPLATE WITH (2) 8-POSITION CAT6 RJ-45 JACKS (TWO DATA), WALL FLUSH MOUNTED 18" AFF, UNLESS NOTED OTHERWISE. REFER TO SHEET ____ DETAIL_ FOR OUTLET DETAIL.
	3-PORT COMMUNICATIONS OUTLET, (1) 3-PORT FACEPLATE WITH (3) 8-POSITION CAT6 RJ-45 JACKS (THREE DATA, ONE VOICE), WALL FLUSH MOUNTED 18" AFF, UNLESS NOTED OTHERWISE. REFER TO SHEET ____ DETAIL_ FOR OUTLET DETAIL.
	4-PORT COMMUNICATIONS OUTLET, (1) 4-PORT FACEPLATE WITH (4) 8-POSITION CAT6 RJ-45 JACKS (TWO DATA, ONE VOICE, ONE SPARE), WALL FLUSH MOUNTED 18" AFF, UNLESS NOTED OTHERWISE. REFER TO SHEET ____ DETAIL_ FOR OUTLET DETAIL.
	6-PORT COMMUNICATIONS OUTLET, (1) 4-PORT FACEPLATE AND (1) 2-PORT FACEPLATE WITH (4) 8-POSITION CAT6 RJ-45 JACKS (TWO DATA, ONE VOICE, ONE SPARE) AND (2) LC CONNECTORS, WALL FLUSH MOUNTED 18" AFF, UNLESS NOTED OTHERWISE. REFER TO SHEET ____ DETAIL_ FOR OUTLET DETAIL.
	FURNITURE OUTLET, (1) 3-PORT FACEPLATE WITH (3) 8-POSITION CAT6 RJ-45 JACK (TWO DATA, ONE VOICE), MODULAR FURNITURE. REFER TO SHEET ____ DETAIL_ FOR OUTLET DETAIL.
	1-PORT FLOORBOX OUTLET, (1) 1-PORT FACEPLATE WITH (1) 8-POSITION CAT6 RJ-45 JACK (DATA ONLY), MOUNTED IN FLOOR BOX. REFER TO SHEET ____ DETAIL_ FOR OUTLET DETAIL.
	2-PORT FLOORBOX OUTLET, (1) 2-PORT FACEPLATE WITH (2) 8-POSITION CAT6 RJ-45 JACKS (TWO DATA), MOUNTED IN FLOOR BOX. REFER TO SHEET ____ DETAIL_ FOR OUTLET DETAIL.
	3-PORT FLOORBOX OUTLET, (1) 3-PORT FACEPLATE WITH (3) 8-POSITION CAT6 RJ-45 JACKS (TWO DATA, ONE VOICE), MOUNTED IN FLOOR BOX. REFER TO SHEET ____ DETAIL_ FOR OUTLET DETAIL.
	4-PORT FLOORBOX OUTLET, (1) 4-PORT FACEPLATE WITH (4) 8-POSITION CAT6 RJ-45 JACKS (TWO DATA, ONE VOICE, ONE SPARE), MOUNTED IN FLOOR BOX. REFER TO SHEET ____ DETAIL_ FOR OUTLET DETAIL.
	6-PORT FLOORBOX OUTLET, (1) 4-PORT FACEPLATE AND (1) 2-PORT FACEPLATE WITH (4) 8-POSITION CAT6 RJ-45 JACKS (TWO DATA, ONE VOICE, ONE SPARE) AND (2) LC CONNECTORS, MOUNTED IN FLOOR BOX. REFER TO SHEET ____ DETAIL_ FOR OUTLET DETAIL.
	FURNITURE FLOORBOX OUTLET, (1) 3-PORT FACEPLATE WITH (3) 8-POSITION CAT6 RJ-45 JACK (TWO DATA, ONE VOICE), MOUNTED IN FLOOR BOX. REFER TO SHEET ____ DETAIL_ FOR OUTLET DETAIL.
	TELECOM JUNCTION BOX (6x9x2") AND 2-GANG FACEPLATE WITH A MINIMUM OF 1-1/4" HOLE AND GROMMET FOR DETAIL. REFER TO SHEET ____ DETAIL_ FOR OUTLET DETAIL. JUNCTION BOX MOUNTING HEIGHT IS 18" AFF TO THE CENTER AND AT LEAST 12" FROM FURNITURE PANEL.
	TELEPHONE OUTLET, (1) 1-PORT FACEPLATE WITH (1) 8-POSITION CAT6 RJ-45 JACK, WALL PHONE, (VOICE ONLY), 48" AFF UNLESS NOTED OTHERWISE. REFER TO SHEET ____ DETAIL_ FOR OUTLET DETAIL.
	TELEPHONE WEATHERPROOF OUTLET, (1) 1-PORT FACEPLATE WITH (1) 8-POSITION CAT6 RJ-45 JACK, WALL PHONE (VOICE ONLY), 48" AFF UNLESS NOTED OTHERWISE. REFER TO SHEET ____ DETAIL_ FOR OUTLET DETAIL.
	TV OUTLET, F-SERIES CONNECTOR ON SINGLE GANG FACEPLATE, WALL FLUSH MOUNTED 7'-6" AFF, UNLESS NOTED OTHERWISE. REFER TO SHEET ____ DETAIL_ FOR OUTLET DETAIL.
	AMPLIFIER
	AUDIO VISUAL OUTLET
	BELL
	BUZZER
	CLOCK
	INTERCOM MASTER STATION
	INTERCOM SLAVE STATION
	MICROPHONE
	NIGHTBELL
	PROJECTOR
	ROTATING ILLUMINATED BEACON
	SPEAKER
	BONDING STRAP

**COMMUNICATIONS SYMBOLS**

	AUDIO AMPLIFIER
	AUDIO MATRIX SWITCHER
	CLIENT SWITCH
	COAXIAL SPLITTER
	COAXIAL DISTRIBUTION AMPLIFIER
	ETHERNET SWITCH
	FIBER OPTIC PATCH PANEL
	FIBER OPTIC SWITCH
	PATCH PANEL (CAT6)
	POWER STRIP
	SMART UPS
	WIRE MANAGER
	6" VERTICAL CABLE MANAGEMENT CHANNEL
	10" TELECOMMUNICATIONS GROUNDING BUS BAR
	20" TELECOMMUNICATIONS GROUNDING BUS BAR
	110 BLOCK
	BUILDING ENTRANCE PROTECTOR
	BIX MOUNT
	COAXIAL PROTECTOR BLOCK
	COAXIAL SPLITTER
	D-RING
	PROTECTOR UNIT
	4" SLEEVE, UNLESS NOTED OTHERWISE, WITH BUSHING AND FIRESTOPPED WITH PUTTY AFTER INSTALLATION
	VERTICAL SLEEVE OR CONDUIT, SIZE AS NOTED, WITH BUSHINGS AND FIRESTOPPED WITH PUTTY AFTER INSTALLATION
	EQUIPMENT CABINET
	EQUIPMENT WALL MOUNTED CABINET
	EQUIPMENT RACK
	4" DEEP WIRE BASKET CABLE TRAY, WIDTH AS INDICATED
	LADDER TYPE CABLE RUNWAY, WIDTH AS INDICATED
	3/4" MDO PLYWOOD
	METALLIC RACEWAY, 4x2"
	CONDUIT UNDER-SLAB, SIZE AS NOTED
	CONDUIT ABOVE CEILING, SIZE AS NOTED
	CONDUIT IN-SLAB, SIZE AS NOTED

**COMMUNICATIONS ABBREVIATIONS**

AFF	ABOVE FINISHED FLOOR
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AWG	AMERICAN WIRE GAUGE
BB	BACKBONE
BIX	BIX BLOCK
BR	BALLISTIC RESISTANCE
C	CONDUIT
CAA	CONTROLLED ACCESS AREA
CAT 3	CATEGORY 3
CAT 5	CATEGORY 5
CAT 5E	CATEGORY 5, ENHANCED
CAT 6	CATEGORY 6
CCR	CLASSIFIED COMPUTER ROOM
CONN	CONNECTOR
CR	COMPUTER ROOM
CTR	CLASSIFIED TELECOMMUNICATIONS ROOM
EIA	ELECTRONIC INDUSTRIES ALLIANCE
EMI	ELECTROMAGNETIC INTERFERENCE
EMT	ELECTRICAL METALLIC TUBING
FE	FORCED ENTRY
FF	FINISHED FLOOR
FO	FIBER OPTIC
FOC	FIBER OPTIC CABLE
GE	GROUNDING EQUALIZER
GF	GOVERNMENT FURNISHED EQUIPMENT
GFGI	GOVERNMENT FURNISHED, GOVERNMENT INSTALLED
HH	HAND HOLE
ISP	INSIDE PLANT
JBOX	JUNCTION BOX
LAN	LOCAL AREA NETWORK
LEC	LOCAL EXCHANGE CARRIER
LSP	LOCAL SERVICE PROVIDER
MDF	MAIN DISTRIBUTION FRAME
MH	MAINTENANCE HOLE
Mhz	MEGAHERTZ
MIC	MICROPHONE
MM	MULTIMODE
mm	MILLIMETER
MTS	MAIN TERMINAL SPACE
NCAA	NON-CONTROLLED ACCESS AREA
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
OSP	OUTSIDE PLANT
PIC	PATCH CORD
PIP	PATCH PANEL
PB	PULL BOX
PBX	PRIVATE BRANCH EXCHANGE
PC	PERSONAL COMPUTER
PR	PAIR
PVC	POLYVINYL CHLORIDE
RM	ROOM
RMU	RACK MOUNT UNIT
SM	SINGLEMODE
SPKR	SPEAKER
STR	STRAND
SWTH	SWITCH TAIL
TBB	TELECOMMUNICATION BONDING BACKBONE
TC	TELECOMMUNICATIONS CLOSET
TER	TELEPHONE EQUIPMENT ROOM
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION
TGMB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
TR	TELECOMMUNICATIONS ROOM, ALSO SEE TC
TSEF	TELECOMMUNICATIONS SERVICE ENTRANCE FACILITY
TYP	TYPICAL
UG	UNDERGROUND CONDUIT
UL	UNDERWRITERS LABORATORIES
um	MICRON OR MICROMETER
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTP	UNSHIELDED TWISTED-PAIR
WA	WORK AREA
WM	WALL MOUNTED
WS	WORKSTATION

**POWER SYMBOLS**

	CONDUIT DROP
	CONDUIT RISE
	DISCONNECT SWITCH
	DISTRIBUTION PANEL
	ELECTRICAL PANEL
	JUNCTION BOX
	METER
	MOTOR
	MOTOR STARTER
	MOTOR STARTER (MANUAL)
	PUSH TYPE SWITCH
	CATEGORY 6
	RECEPTACLE, CEILING MOUNTED
	RECEPTACLE, CEILING 20 AMP DUPLEX
	RECEPTACLE, CEILING DUPLEX STANDBY POWER
	RECEPTACLE, CEILING DUPLEX UPS BACKED

**LIGHTING SYMBOLS**

	1x4' LIGHT
	2x2' LIGHT
	2x4' LIGHT
	DOWNLIGHT
	EXIT LIGHT
	EXIT LIGHT (WALL MOUNTED)
	PENDANT LIGHT
	POLE MOUNTED LIGHT
	STRIP LIGHT
	TRACK LIGHT
	WALL MOUNTED EMERGENCY LIGHT
	WALL SCONCE
	WALL WASHER

**FIRE ALARM SYMBOLS**

	DOOR HOLD OPEN
	DUCT SMOKE DETECTOR
	FIRE ALARM CONTROL PANEL
	FIRE ALARM ANNUNCIATOR PANEL
	FIRE ALARM SLAVE PANEL
	FIRE BELL
	FLOW SWITCH
	HEAT DETECTOR (CEILING MOUNTED)
	HEAT DETECTOR (WALL MOUNTED)
	HORN (WALL MOUNTED)
	HORN (CEILING MOUNTED)
	HORN STROBE (WALL MOUNTED)
	HORN STROBE (CEILING MOUNTED)

**SECURITY SYMBOLS**

	CAMERA FIELD OF VIEW
	CARD READER
	DOOR INTERLOCK
	DOOR POSITION INDICATION SWITCH (INTERRUPTIBLE)
	DOOR POSITION INDICATION SWITCH (UNINTERRUPTIBLE)
	DURESS ALARM (WITH LIGHT)
	DURESS ALARM (WITHOUT LIGHT)
	ELECTRIC LOCK
	ELECTRIC LOCK (DEADBOLT)
	INMATE TELEPHONE
	KEYED SWITCH
	MOTION DETECTOR
	PUSH BUTTON REX

	RECEPTACLE, DUPLEX
	RECEPTACLE, DUPLEX FLOOR MOUNTED
	RECEPTACLE, DUPLEX GFI
	RECEPTACLE, DUPLEX ISOLATED GROUND
	RECEPTACLE, DUPLEX SWITCHED
	RECEPTACLE, DUPLEX STANDBY POWER
	RECEPTACLE, DUPLEX UPS BACKED
	RECEPTACLE, DUPLEX WITH USB
	RECEPTACLE, QUAD
	RECEPTACLE, QUAD FLOOR MOUNTED
	RECEPTACLE, SINGLE
	RECEPTACLE, SPECIAL
	RECEPTACLE, SPECIAL FLOOR MOUNTED
	TRANSFORMER
	CONCEALED CONDUIT, UNLESS OTHERWISE INDICATED, DENOTES 3/4" C-2#12-1#12G
	SURFACE MOUNTED RACEWAY

	CRITICAL POWER LIGHT
	EMERGENCY POWER LIGHT
	DAYLIGHT SENSOR (LV INDICATES LOW VOLTAGE DEVICE)
	OCCUPANCY SENSOR
	PHOTOCELL SENSOR
	LIGHTING SWITCH (STANDARD)
	LIGHTING SWITCH (3-WAY)
	LIGHTING SWITCH (4-WAY)
	LIGHTING SWITCH (DIMMER)
	LIGHTING SWITCH (KEYED)
	LIGHTING SWITCH (LOW VOLTAGE)
	LIGHTING SWITCH (PILOT)
	LIGHTING SWITCH (SENSOR)

	MANUAL PULL STATION
	MICROPHONE
	MONITOR MODULE
	OUTPUT RELAY
	SMOKE DETECTOR (CEILING MOUNTED)
	SMOKE DETECTOR (WALL MOUNTED)
	SPEAKER (WALL MOUNTED)
	SPEAKER (CEILING MOUNTED)
	STROBE (WALL MOUNTED)
	STROBE (CEILING MOUNTED)
	TAMPER DETECTOR (WITH VALVE)
	TAMPER DETECTOR (WITHOUT VALVE)

**SYMBOLS & ABBREVIATIONS**

**GENERAL SYMBOLS**

	KEY NOTE
	EQUIPMENT IDENTIFIER
	DETAIL NUMBER DETAIL REFERENCE SHEET NUMBER
	MATCH LINE REFERENCE MATCHED SHEET NUMBER
	ROOM NUMBER CONNECTION TO EXISTING (IF INDICATES EXISTING SIZE) REVISION NUMBER SECTION NUMBER SECTION REFERENCE SHEET NUMBER
	NORTH ARROW
	CENTER LINE

NOTE: SYMBOLS AND ABBREVIATIONS ON THE DRAWINGS SHALL BE INTERPRETED IN ACCORDANCE WITH THE LEGENDS WHEREVER APPLICABLE. NOT ALL SYMBOLS AND ABBREVIATIONS IN THE LEGENDS ARE NECESSARILY USED FOR THE PROJECT. ALL SIZES ARE IN INCHES, UNLESS OTHERWISE NOTED.

**LINWEIGHT LEGEND**

	NEW WORK
	EXISTING TO REMAIN OR NOT IN CONTRACT
	DEMOLITION
	FUTURE WORK

**ABBREVIATIONS**

	DIAMETER
	ABOVE
	ABOVE FINISH FLOOR
	ABOVE FINISH GRADE
	ALUMINUM
	AS REQUIRED
	AUTOMATIC TRANSFER SWITCH
	BUILDING
	CONDUIT
	CIRCUIT
	CHROME PLATED
	CURRENT TRANSFORMER
	COPPER
	CEILING
	CONDUIT ONLY WITH 1/4" POLYPROPYLENE PULL ROPE
	CIRCUIT BREAKER
	DISCONNECT
	DISTRIBUTION
	DIVISION
	DRAWING
	DUPLEX
	EXISTING TO REMAIN
	EACH
	EMERGENCY FLOOR, OR FLOOR MOUNTED
	FEET
	GROUND
	GAUGE
	GROUND FAULT INTERRUPT
	GROUND
	HIGH
	HEIGHT
	ISOLATED GROUND
	INCHES
	LONG
	MAXIMUM
	MANUFACTURER
	MINIMUM
	MANUAL MOTOR STARTER
	MOUNT(ED)
	NEW
	NEUTRAL
	NIGHT LIGHT
	NORMALLY CLOSED
	NOT IN CONTRACT
	NORMALLY OPEN
	NORMAL
	PANEL
	QUAD ISOLATED GROUND
	REQUIRED
	ROOM
	SIMILAR
	SINGLE POLES/SINGLE THROW SWITCH
	STAINLESS STEEL
	SWITCH
	TYPICAL
	WIDE

**Mechanical Equipment Schedule**

NOTES:  
 1. REQUIRES GENERATOR BACKED STANDBY POWER.  
 2. FED FROM OUT4.6.

Equipment Name	Description	Room #	Room Name	Voltage	Phase	HP	KW	Amps	kVA	Starter	Disconnect	Fuse Size	# of Sets	Conduit Size	Wire Size/Qty	Panel	Circuit Number	Notes
DH1	DUCT HEATER			120 V	1	--	3.840 kW	32.00 A	3.840 kVA	--	--	--	1	0"	2#12+1#12G			
ERV3.2	ENERGY RECOVERY VENTILATOR			208 V	1	--	0.437 kW	2.10 A	0.437 kVA	--	--	--	1	0"	2#12+1#12G			
HRU1	HEAT RECOVERY UNIT #1	309	PROSECTION	480 V	3	--	78.982 kW	95.00 A	78.982 kVA	--	--	--	1	0"	3#1+1#6G			
HWRP1	HOT WATER RECIRC PUMP 1			120 V	1	1/8	0.480 kW	4.00 A	0.480 kVA	--	--	--	1	0"	2#12+1#12G			
HWRP2	HOT WATER RECIRC PUMP 2			120 V	1	1/8	0.480 kW	4.00 A	0.480 kVA	--	--	--	1	0"	2#12+1#12G			
IN3.4	VRF INDOOR UNIT 3.4	327	OFFICE D	120 V	1	1/2	1.176 kW	9.80 A	1.176 kVA	--	--	--	1	0"	2#12+1#12G			
IN3.5	VRF INDOOR UNIT 3.5	302	COMMON SAPCE	120 V	1	1/2	1.176 kW	9.80 A	1.176 kVA	--	--	--	1	0"	2#12+1#12G			
IN3.6	VRF INDOOR UNIT 3.6	304	OFFICE A	120 V	1	1/2	1.176 kW	9.80 A	1.176 kVA	--	--	--	1	0"	2#12+1#12G			
IN3.7	VRF INDOOR UNIT 3.7	307	LOUNGE	120 V	1	1/2	1.176 kW	9.80 A	1.176 kVA	--	--	--	1	0"	2#12+1#12G			
IN3.8	VRF INDOOR UNIT 3.8	323	OFFICE B	120 V	1	1/2	1.176 kW	9.80 A	1.176 kVA	--	--	--	1	0"	2#12+1#12G			
IN3.9	VRF INDOOR UNIT 3.9	325	OFFICE C	120 V	1	1/2	1.176 kW	9.80 A	1.176 kVA	--	--	--	1	0"	2#12+1#12G			
IN3.10	VRF INDOOR UNIT 3.10	309	PROSECTION	120 V	1	1/2	1.176 kW	9.80 A	1.176 kVA	--	--	--	1	0"	2#12+1#12G			1
IN3.11	VRF INDOOR UNIT 3.11	309	PROSECTION	120 V	1	1/2	1.176 kW	9.80 A	1.176 kVA	--	--	--	1	0"	2#12+1#12G			1
IN3.12	VRF INDOOR UNIT 3.12	306	ANATOMY	120 V	1	1/2	1.176 kW	9.80 A	1.176 kVA	--	--	--	1	0"	2#12+1#12G			1
IN3.13	VRF INDOOR UNIT 3.13	306	ANATOMY	120 V	1	1/2	1.176 kW	9.80 A	1.176 kVA	--	--	--	1	0"	2#12+1#12G			1
IN3.14	VRF INDOOR UNIT 3.14			208 V	1	1/2	2.038 kW	9.80 A	2.038 kVA	--	--	--	1	0"	2#12+1#12G			2
OUT4.5	VRF OUTDOOR UNIT 4.5			208 V	1	--	6.032 kW	29.00 A	6.032 kVA	--	--	--	1	0"	2#12+1#12G			1
OUT4.6	VRF OUTDOOR UNIT 4.6			208 V	1	--	4.056 kW	19.50 A	4.056 kVA	--	--	--	1	0"	2#12+1#12G			
VAV1	VAV BOX #1			277 V	1	--	1.025 kW	3.70 A	1.025 kVA	--	--	--	1	0"	2#12+1#12G			
VAV2	VAV BOX #2	309	PROSECTION	277 V	1	--	1.025 kW	3.70 A	1.025 kVA	--	--	--	1	0"	2#12+1#12G			
VAV3	VAV BOX #3	315	MEN	277 V	1	--	1.025 kW	3.70 A	1.025 kVA	--	--	--	1	0"	2#12+1#12G			
VAV4	VAV BOX #4	306	ANATOMY	277 V	1	--	1.025 kW	3.70 A	1.025 kVA	--	--	--	1	0"	2#12+1#12G			
VAV5	VAV BOX #5	306	ANATOMY	277 V	1	--	3.047 kW	11.00 A	3.047 kVA	--	--	--	1	0"	2#12+1#12G			
VAV6	VAV BOX #6	306	ANATOMY	277 V	1	--	3.047 kW	11.00 A	3.047 kVA	--	--	--	1	0"	2#12+1#12G			
VAV7	VAV BOX #7	306	ANATOMY	277 V	1	--	3.047 kW	11.00 A	3.047 kVA	--	--	--	1	0"	2#12+1#12G			
WH-1	WATER HEATER			120 V	1	1/2	0.500 kW	4.17 A	0.500 kVA	--	--	--	1	0"	2#12+1#12G			

**Lab Equipment Schedule**

Equipment Name	Description	Room #	Room Name	Voltage	Phase	HP	KW	Amps	kVA	Starter	Disconnect	Fuse Size	# of Sets	Conduit Size	Wire Size/Qty	Panel	Circuit Number	Notes
L1	DISECTION TABLE	309	PROSECTION	120 V	1	--	1.800 kW	15.00 A	1.800 kVA	--	--	--	1	0"	2#12+1#12G			
L2	PATHOLOGY WORKSTATION	309	PROSECTION	120 V	1	--	1.800 kW	15.00 A	1.800 kVA	--	--	--	1	0"	2#12+1#12G			
L3	LIGHT BOX	306	ANATOMY	120 V	1	--	0.156 kW	1.30 A	0.156 kVA	--	--	--	1	0"	2#12+1#12G			
L4	LIGHT BOX	306	ANATOMY	120 V	1	--	0.156 kW	1.30 A	0.156 kVA	--	--	--	1	0"	2#12+1#12G			
L5	LIGHT BOX	309	PROSECTION	120 V	1	--	0.156 kW	1.30 A	0.156 kVA	--	--	--	1	0"	2#12+1#12G			

Stamps & Approvals

Project Key Plan

**NOT FOR CONSTRUCTION**

Rev | Date | Description

Project Title

**University of Idaho**

**University of Idaho WWAMI**

700 S MAIN ST, MOSCOW, ID 83843

**WWAMI**

GRITMAN BUILDING

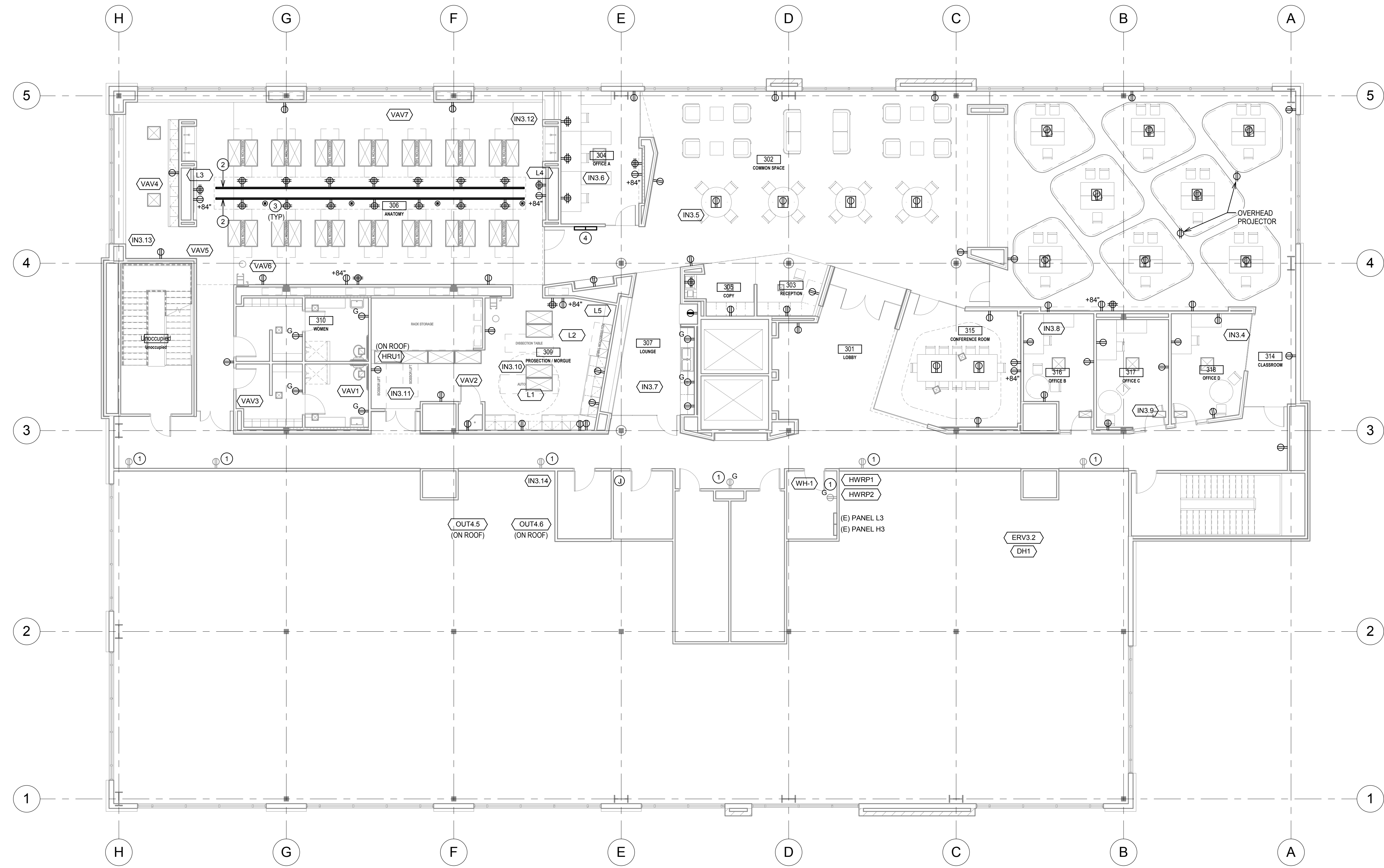
Project Phase  
DESIGN DEVELOPMENT

Date 12/06/16	Drawn By Author
Project Number 15788-01	Checked By Checker

Sheet Title  
**EQUIPMENT SCHEDULES - ELECTRICAL**

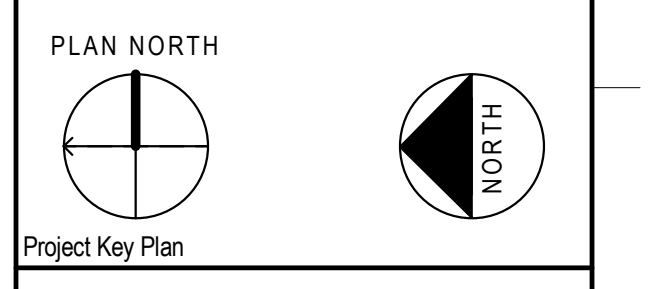
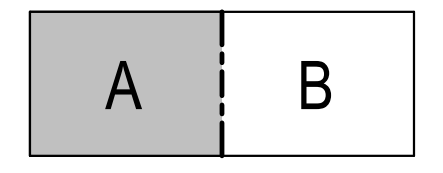
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- KEY NOTES:
- EXISTING DEVICE TO REMAIN.
  - SURFACE MOUNTED RACEWAY LOCATED IN SOFFIT BELOW ACT CEILING. COORDINATE EXACT MOUNTING LOCATION WITH LCD SUPPORTS AND CABLE TRAY.
  - PROVIDE CORD REEL MOUNTED ABOVE DRYWALL CEILING. PROVIDE 120V 20A CORD CAP BELOW DRYWALL CEILING. INSTALL ROLLER GUIDE ON DRYWALL CEILING.
  - NEW PANEL LTW.



**LEVEL 3 FLOOR PLAN - POWER**  
 1/8" = 1'-0"

Stamps & Approvals



**NOT FOR CONSTRUCTION**

Rev	Date	Description

Project Title  
**University of Idaho**

**University of Idaho WWAMI**

700 S MAIN ST, MOSCOW, ID 83843

**WWAMI**  
 GRITMAN BUILDING

Project Phase  
**DESIGN DEVELOPMENT**

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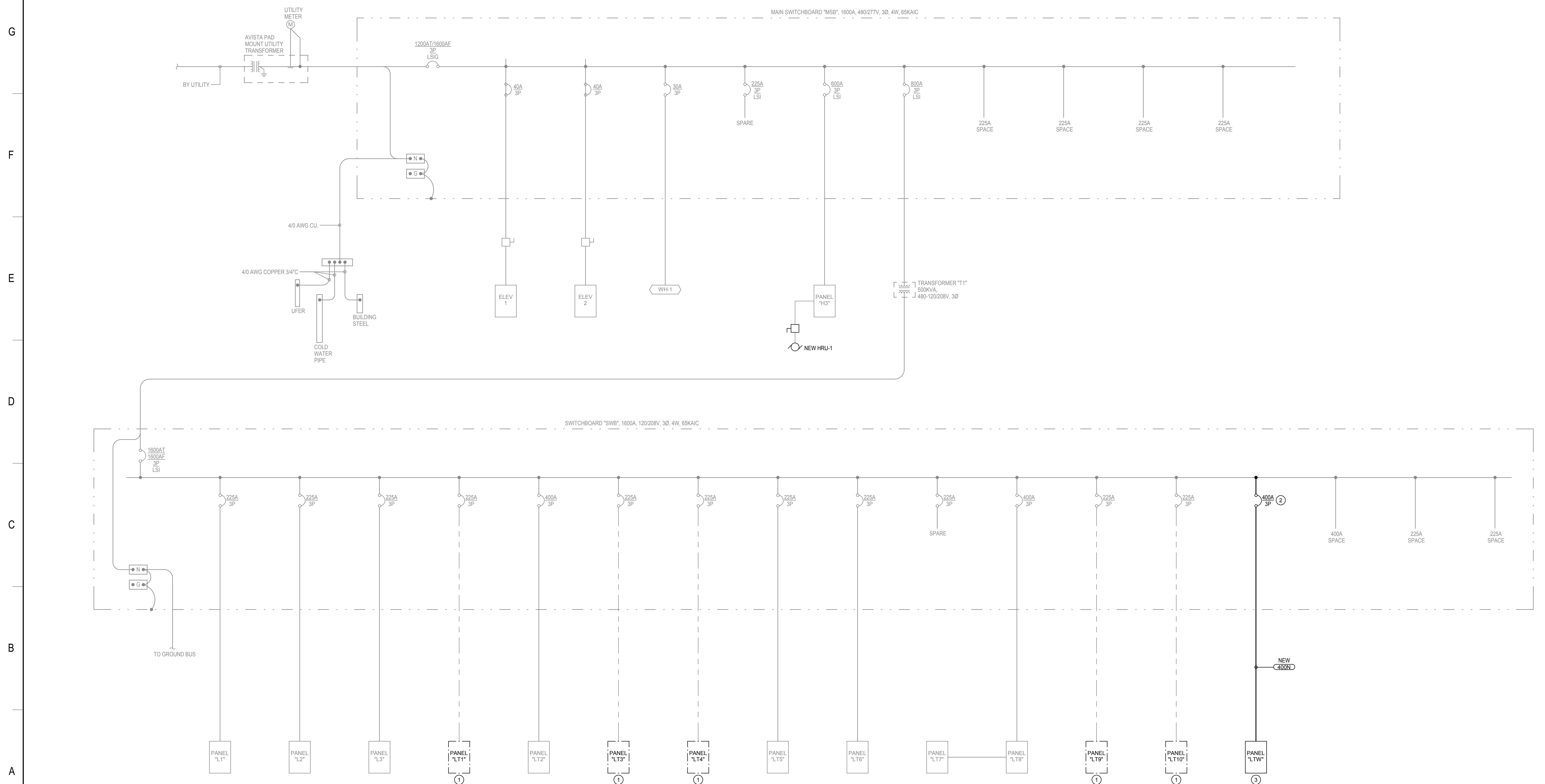
Sheet Title  
**LEVEL 3 FLOOR PLAN - ELECTRICAL**

Sheet Number <b>E-231</b>	Rev. No.
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AMPACITY (AMPS)	FEEDER SCHEDULE														
	FEEDER WITH NEUTRAL				FEEDER WITH 200% NEUTRAL AND ISOLATED GROUND				FEEDER WITHOUT NEUTRAL						
	FEEDER NUMBER	NUMBER OF SETS	CONDUIT (INCHES)	CONDUCTOR	GROUND	FEEDER NUMBER	NUMBER OF SETS	CONDUIT (INCHES)	CONDUCTOR	GROUND	FEEDER NUMBER	NUMBER OF SETS	CONDUIT (INCHES)	CONDUCTOR	GROUND
20	20N	1	3/4	#12	#12	20K	1	3/4	3#12#6	2#12	20	1	3/4	3#12	#12
30	30N	1	3/4	#10	#10	30K	1	1	3#8#4	2#10	30	1	3/4	3#10	#10
40	40N	1	1	4#8	#10	40K	1	1	3#8#3	2#10	40	1	1	3#8	#10
50	50N	1	1	4#6	#8	50K	1	1 1/4	3#6#1	2#8	50	1	1	3#6	#8
60	60N	1	1 1/4	4#4	#8	60K	1	1 1/4	3#4#1	2#8	60	1	1 1/4	3#4	#8
70	70N	1	1 1/4	4#4	#8	70K	1	1 1/2	3#3#1.0	2#8	70	1	1 1/4	3#4	#8
80	80N	1	1 1/2	4#3	#8	80K	1	1 1/2	3#3#2.0	2#8	80	1	1 1/4	3#3	#8
90	90N	1	1 1/2	4#2	#8	90K	1	1 1/2	3#2#3.0	2#8	90	1	1 1/4	3#2	#8
100	100N	1	2	4#1	#8	100K	1	2	3#1#3.0	2#8	100	1	1 1/2	3#1	#8
125	125N	1	2	4#1	#6	125K	1	2 1/2	5#2.0	2#4	125	1	1 1/2	3#1	#6
150	150N	1	2	4#1.0	#6	150K	1	2 1/2	5#3.0	2#4	150	1	2	3#1.0	#6
175	175N	1	2	4#2.0	#4	175K	1	2 1/2	5#4.0	2#2	175	1	2	3#2.0	#4
200	200N	1	2 1/2	4#3.0	#4	200K	1	3	5#2.0	2#2	200	1	2	3#3.0	#4
225	225N	1	2 1/2	4#4.0	#2	225K	1	3	5#3.0	2#2	225	1	2 1/2	3#4.0	#2
250	250N	1	3	4#2.0	#2	250K	1	4	5#4.0	2#1.0	250	1	3	3#2.0	#2
300	300N	1	4	4#3.0	#2	300K	1	4	5#5.0	2#1.0	300	1	3	3#3.0	#2
350	350N	1	4	4#5.0	#1.0	350K	2	2 1/2	5#4.0	2#2.0	350	1	4	3#5.0	#1.0
400	400N	1	4	4#6.0	#1.0	400K	2	3	5#2.0	2#2.0	400	1	4	3#6.0	#1.0
450	450N	2	2 1/2	4#4.0	#2.0	450K	2	3	5#3.0	2#2.0	450	2	2 1/2	3#4.0	#2.0
500	500N	2	3	4#2.0	#2.0	500K	2	4	5#4.0	2#2.0	500	2	3	3#2.0	#2.0
600	600N	2	4	4#3.0	#2.0	600K	2	4	5#5.0	2#3.0	600	2	3	3#3.0	#2.0
700	700N	2	4	4#5.0	#3.0	700K	4	2 1/2	5#4.0	2#3.0	700	2	4	3#5.0	#3.0
800	800N	2	4	4#6.0	#3.0	800K	4	3	5#2.0	2#3.0	800	2	4	3#6.0	#3.0
1000	1000N	3	4	4#4.0	#3.0	1000K	4	4	5#4.0	2#3.0	1000	3	3	3#4.0	#3.0
1200	1200N	4	4	4#2.0	#3.0	1200K	4	4	5#5.0	2#3.0	1200	4	3	3#5.0	#3.0
1600	1600N	4	4	4#6.0	#4.0	1600K	8	3	5#2.0	2#4.0	1600	4	4	3#6.0	#4.0
2000	2000N	5	4	4#6.0	#2.0	2000K	8	4	5#4.0	2#2.0	2000	5	4	3#6.0	#2.0
2500	2500N	6	4	4#6.0	#3.0	2500K	10	4	5#4.0	2#3.0	2500	6	4	3#6.0	#3.0
3000	3000N	8	4	4#5.0	#4.0	3000K	10	4	5#5.0	2#4.0	3000	8	4	3#5.0	#4.0
4000	4000N	10	4	4#6.0	#5.0	4000K	16	4	5#4.0	2#5.0	4000	10	4	3#6.0	#5.0

- GENERAL NOTES:  
 1. ALL EQUIPMENT SHOWN IS EXISTING TO REMAIN UNLESS NOTED OTHERWISE.
- KEY NOTES:  
 1. FUTURE PANEL.  
 2. INSTALL NEW BREAKER WITH INTEGRAL SUB-METERING WITHIN EXISTING SWITCHBOARD.  
 3. NEW PANEL FOR WWAMI.

NOTES:  
 1. CONDUIT SIZES ARE BASED ON THWN INSULATION FOR ALL CONDUCTORS AND RGS CONDUIT.



1 ONE-LINE DIAGRAM - ELECTRICAL  
 N.T.S.

Stamps & Approvals

Project Key Plan

**NOT FOR CONSTRUCTION**

Rev | Date | Description

Project Title

University of Idaho

University of Idaho WWAMI

700 S MAIN ST, MOSCOW, ID 83843

WWAMI

GRITMAN BUILDING

Project Phase  
 DESIGN DEVELOPMENT

Date  
 12/06/16

Project Number  
 15788-01

Sheet Title  
**ONE LINE DIAGRAM - ELECTRICAL**

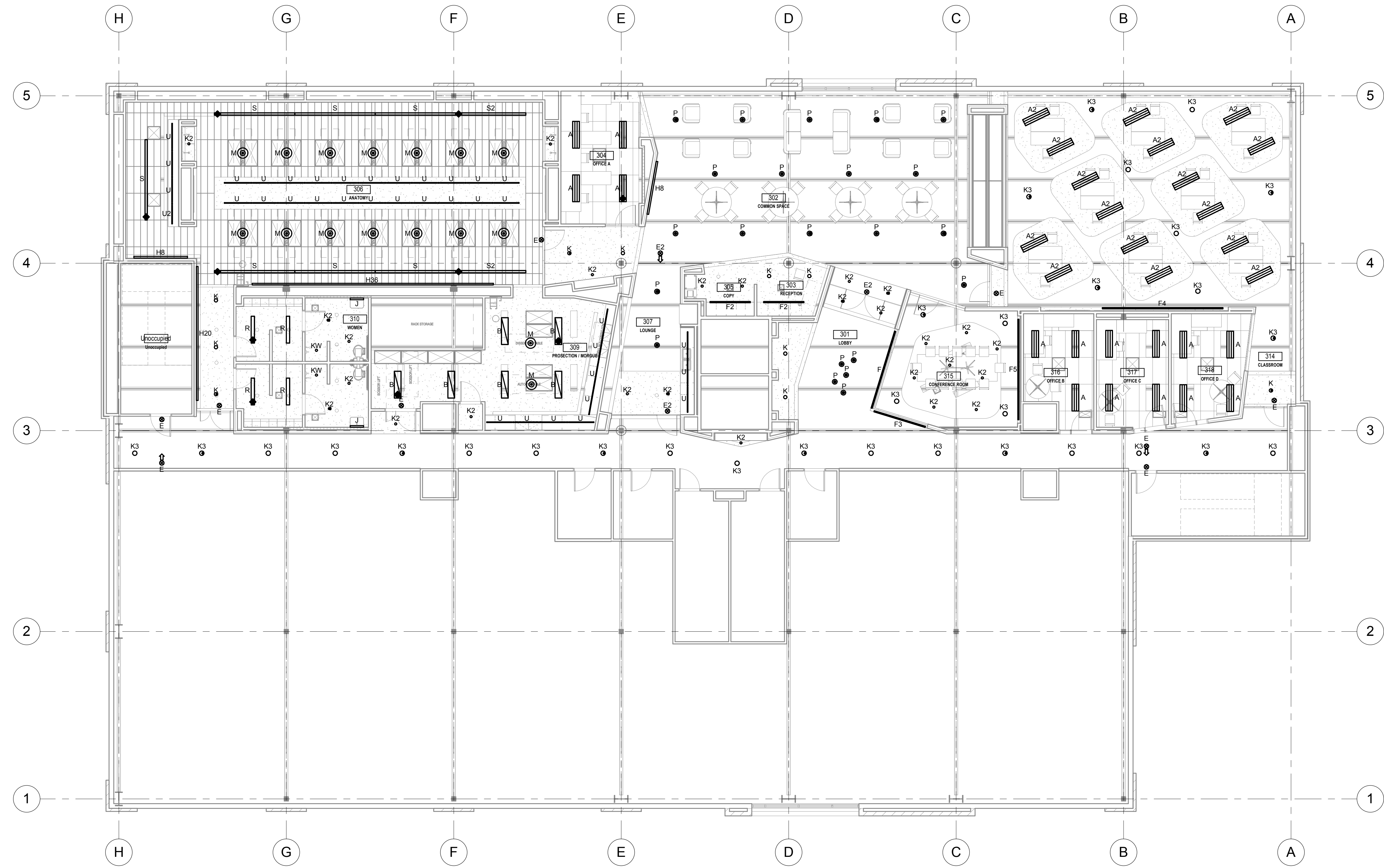
Sheet Number  
**E-701**



- NOTES:  
 1. Contractor shall verify ceiling type prior to ordering. Supply proper installation hardware/trim as necessary.  
 2. Wall mount fixture horizontally 6" on center above top of mirror.  
 3. Wall mount white board light 9'-6" on center above finished floor.  
 4. Pendant mount light 10' AFF to bottom of fixture.  
 5. Wall wash light shall be set back 20-24" from face of wall.  
 6. Where used as indirect cove light, mount fixture on top of soffit aiming upward to illuminate ceiling cavity.  
 GENERAL NOTE:  
 1. Supply emergency battery pack where indicated by diamond symbol.

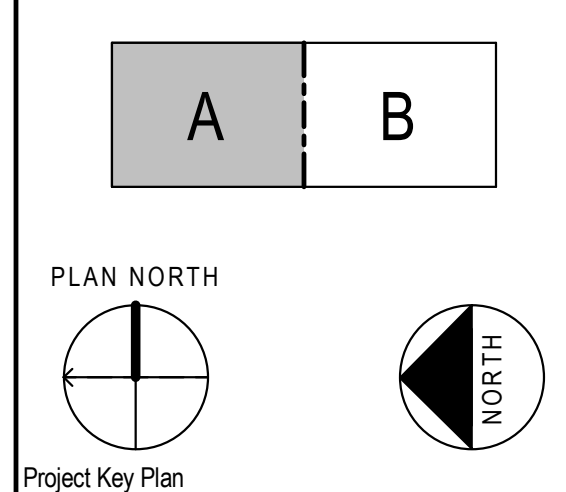
**LIGHTING FIXTURE SCHEDULE**

Type	Description	Lamp	VA	Ballast Voltage	Manufacturer	Model #	Notes
A	1'x4'Architectural Recess Troffer	LED	47 VA	120 V	Fluxwerx	TR1-14-D-40-F2-M	1
A2	1'x4'Architectural Recess Troffer	LED	47 VA	120 V	Fluxwerx	TR1-14-D-40-F2-M-K	1
B	1'x4' LED High Output Sealed Lensed Recess	LED	90 VA	120 V	Surelites	CLM-F-12-4-INS-A12125-LD4-2H1-40-UNV-EDC-1	1
E	LED Exit Fixture	LED	4 VA	120 V	Dualite	LXUGWE	
E2	Edge Lit LED Exit Fixture	LED	4 VA	120 V	Dualite	LE-CW/E-S-G-N-E-1	
F	12' Surface Mount Wall Grazer	LED	75 VA	120 V	Vode Lighting	107-BX-01-12-72-CA-1.25-IP-AE-1-Z-SO-40-WB-AL	
F2	6' Recessed Wall Washer	LED	72 VA	120 V	Amerlux	DRA-LWG-8-LED-DAL-10'-IND-120/277-4000	5
F3	8' Surface Mount Wall Grazer	LED	50 VA	120 V	Vode Lighting	107-BX-01-8-48-CA-1.25-IP-AE-1-Z-SO-40-WB-AL	
F4	18' Surface Mount Wall Grazer	LED	113 VA	120 V	Vode Lighting	107-BX-01-18-72-CA-1.25-IP-AE-1-Z-SO-40-WB-AL	
F5	15' Surface Mount Wall Grazer	LED	94 VA	120 V	Vode Lighting	107-BX-01-15-60-CA-1.25-IP-AE-1-Z-SO-40-WB-AL	
H8	8' Wall Mount White Board Light	LED	54 VA	120 V	Vode Lighting	107-WG-01-8-48-WA-6-IP-AE-1-Z-SO-40-1-AL	3
H20	20' Wall Mount White Board Light	LED	134 VA	120 V	Vode Lighting	107-WG-01-20-60-WA-6-IP-AE-1-Z-SO-40-1-AL	3
H36	36' Wall Mount White Board Light	LED	241 VA	120 V	Vode Lighting	107-WG-01-36-72-WA-6-IP-AE-1-Z-SO-40-1-AL	3
J	Wall Mount Vanity Light	LED	9 VA	120 V	Eureka Lighting	3541-23-LED-9-40-120-SC-WH-3980	2
K	6" LED Recess Downlight	LED	32 VA	120 V	Portfolio	LD6A-20D010TE-ERW6A-20-8-40-6LW1-LI	
K2	4" LED Recess Downlight	LED	22 VA	120 V	Portfolio	LD4A-13D010TE-ERW4A-13-8-40-4LW1-LI	
K3	8" LED Suspended Downlight	LED	24 VA	120 V	Portfolio	LSR8A-20D010TE-P-ER8A-20-8-40-8LW0-LI-P836P	4
KW	6" LED Shower Downlight	LED	15 VA	120 V	Gotham	LD4A-13D010TE-ERW4A-13-8-40-4LW1-LI	
M	Double Head Surgical Procedure Light	LED	160 VA	120 V	Medical Illumination	MH-1000-Dual Ceiling Mount	
P	LED Decorative Pendant	LED	30 VA	120 V	Beta Calco	441201-40 (RE)	4
R	6"x4" LED Lensed Recess	LED	28 VA	120 V	Corelite	R6-WL-1L40-1-C/E-4-120-Flange	
S	12" Gasketed Slot Light	LED	100 VA	120 V	Axis Lighting	WBRLD-B3-MF-750-90-40-S-12'-W-120-DP-1	
S2	10.5" Gasketed Slot Light	LED	87 VA	120 V	Axis Lighting	WBRLD-B3-MF-750-90-40-S-10.5'-W-120-DP-1	
U	4" LED Under Cabinet/Indirect Light	LED	15 VA	120 V	Lumini	EL-120-48-40K	6
U2	3" LED Under Cabinet	LED	12 VA	120 V	Lumini	EL-120-36-40K	



**LEVEL 3 FLOOR PLAN - LIGHTING**  
 1/8" = 1'-0"

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**WWAMI**  
 GRITMAN BUILDING

Project Phase  
 DESIGN DEVELOPMENT

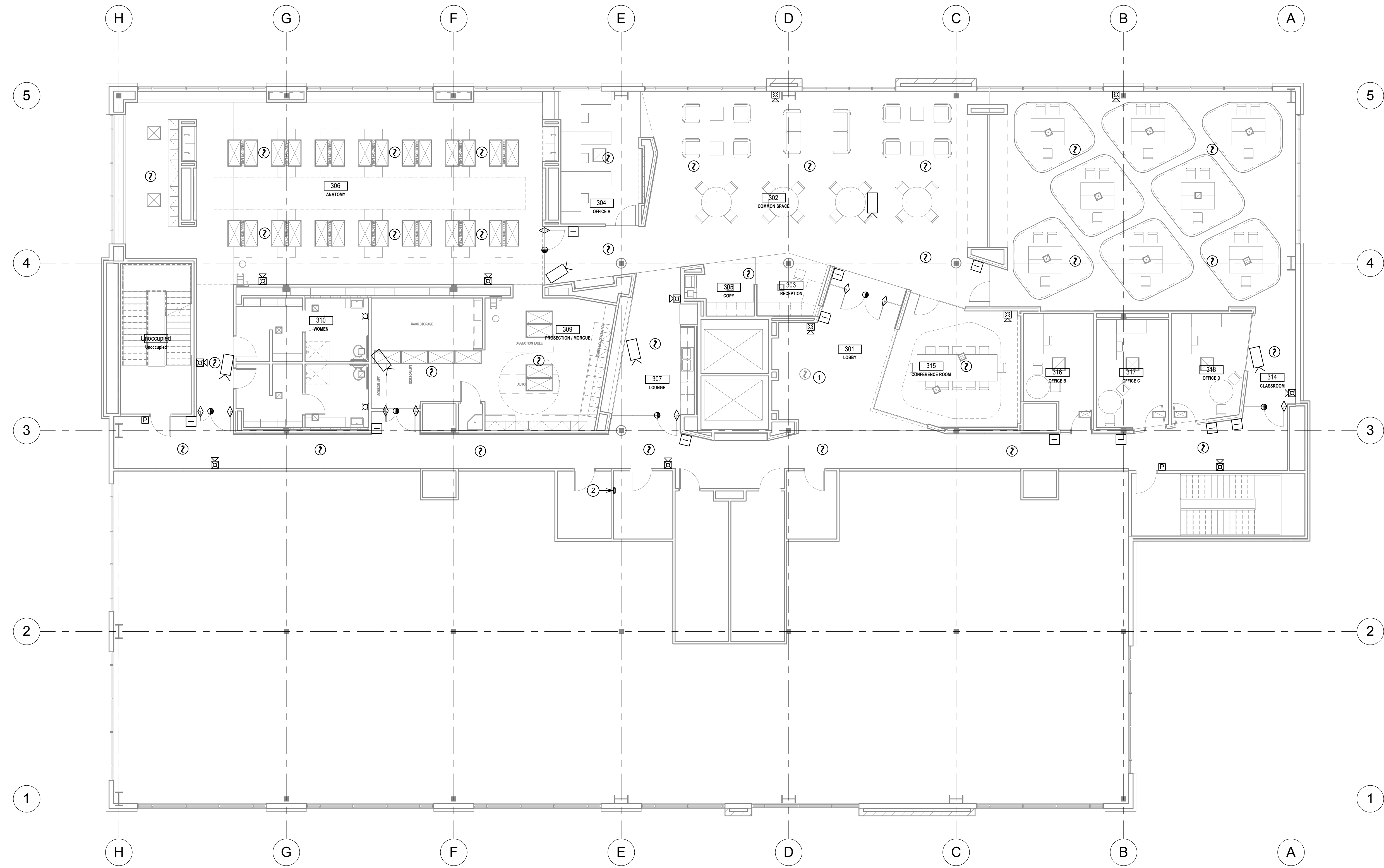
Date: 12/06/16  
 Project Number: 15788-01

Sheet Title  
**LEVEL 3 REFLECTED CEILING PLAN - LIGHTING**

Sheet Number: **EL-231**  
 Rev. No.

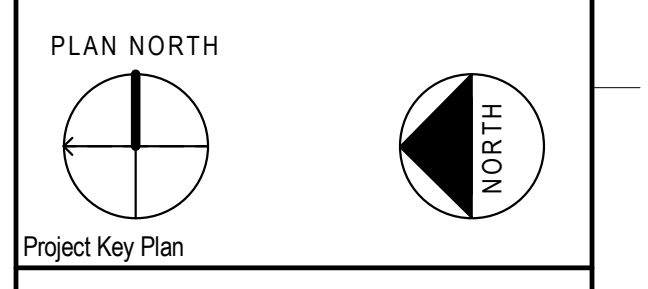
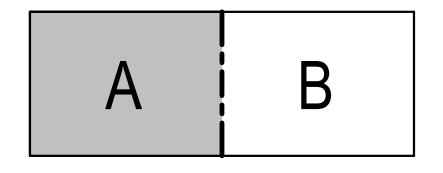
- GENERAL NOTES:**
1. ALL NEW FIRE ALARM DEVICES SHALL MATCH EXISTING FIRE ALARM DEVICES AND SHALL BE COMPATIBLE WITH EXISTING NOTIFIER SYSTEM. PROVIDE ALL NECESSARY FIRE ALARM SUB-PANELS, EXPANSION MODULES, ACCESSORIES AND EQUIPMENT REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM.
  2. CBORD ACCESS CONTROL SYSTEM SHALL BE PROVIDED AND INSTALLED BY OWNER. CONTRACTOR SHALL PROVIDE CONDUIT, BOXES AND 120V POWER FOR ACCESS CONTROL SYSTEM.
  3. REFER TO SHEET T-231 FOR CABLE TRAY INSTALLATION REQUIREMENTS.

- KEY NOTES:**
1. EXISTING FIRE ALARM DEVICE. REMOVE AND RE-INSTALL AS REQUIRED FOR NEW CONSTRUCTION.
  2. OWNER PROVIDED CBORD ACCESS CONTROL PANEL.



**LEVEL 3 FLOOR PLAN - SYSTEMS**  
 1/8" = 1'-0"

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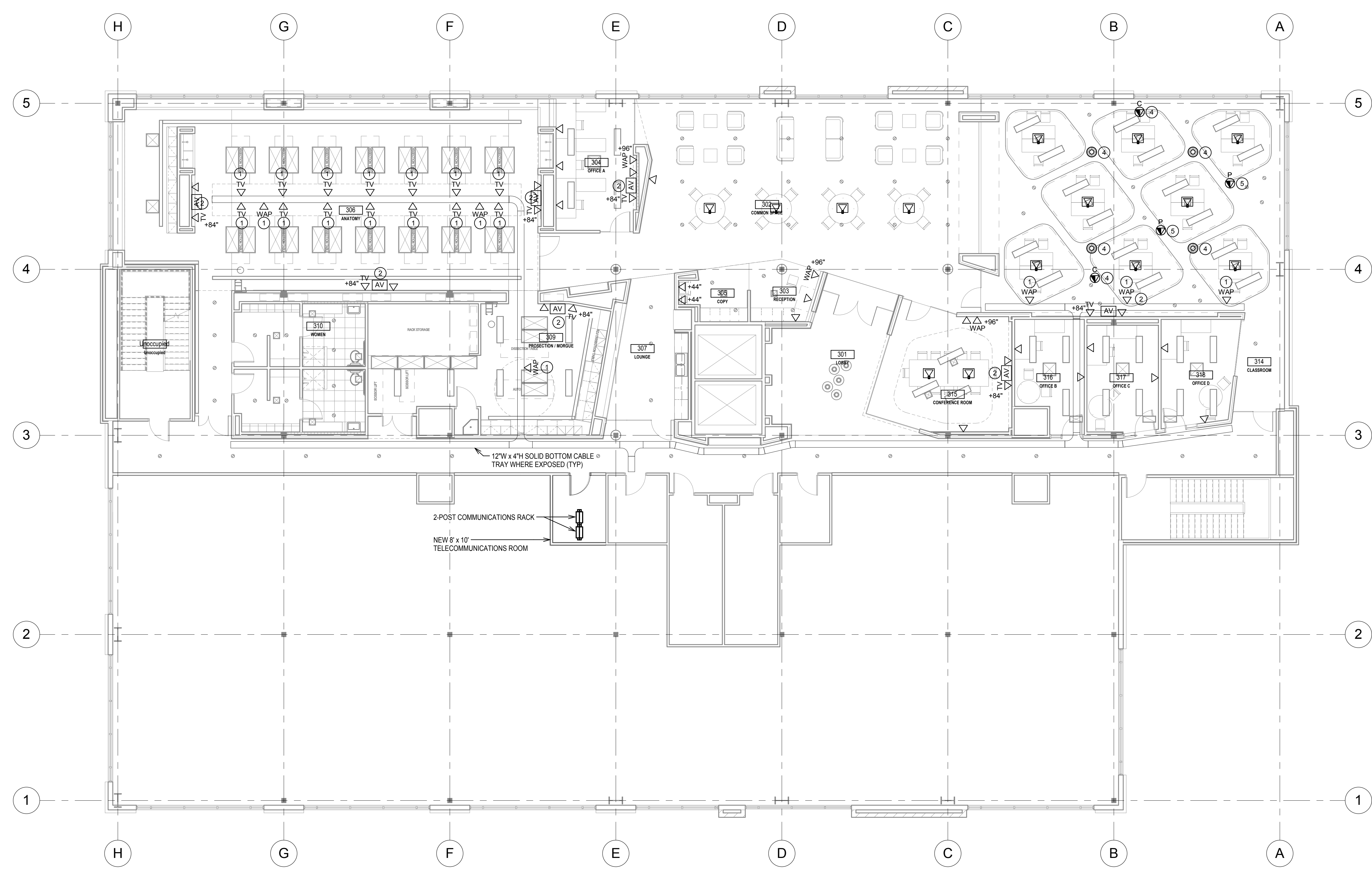
**WWAMI**  
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Project Phase DESIGN DEVELOPMENT	
Date 12/06/16	Drawn By Author
Project Number 15788-01	Checked By Checker

Sheet Title  
**LEVEL 3 FLOOR PLAN - SYSTEMS**

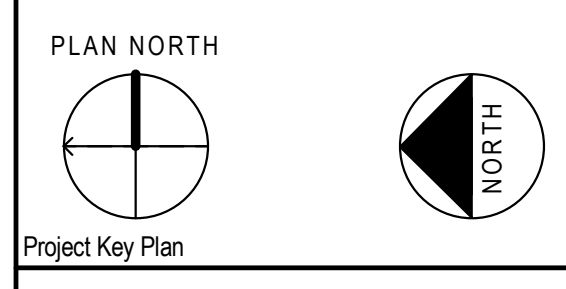
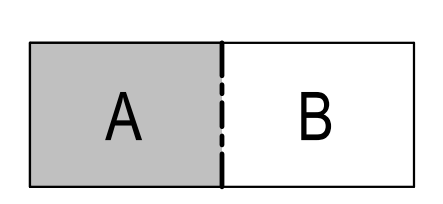
Sheet Number <b>S-231</b>	Rev. No.
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- # KEY NOTES:
1. TELECOMMUNICATIONS OUTLET BOX MOUNTED TO SIDE OF CABLE TRAY
  2. 12"W x 12"H x 3"D JUNCTION PANEL FOR AUDIO VISUAL EQUIPMENT. PROVIDE (3) 1-1/4" CONDUIT FROM JUNCTION BOX TO ACCESSIBLE CEILING SPACE
  3. AUDIO VISUAL CAMERA LOCATION
  4. SPEAKER LOCATION
  5. OVERHEAD PROJECTOR LOCATION



**LEVEL 3 FLOOR PLAN - TELECOMMUNICATIONS**  
 1/8" = 1'-0"

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**University of Idaho**

**University of Idaho WWAMI**

700 S MAIN ST, MOSCOW, ID 83843

**WWAMI**  
 GRITMAN BUILDING

Project Phase  
**DESIGN DEVELOPMENT**

Date 12/06/16	Drawn By Author
Project Number 15788-01	Checked By Checker

Sheet Title  
**LEVEL 3 FLOOR PLAN - TELECOMMUNICATIONS**

Sheet Number <b>T-231</b>	Rev. No.
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Flad Architects

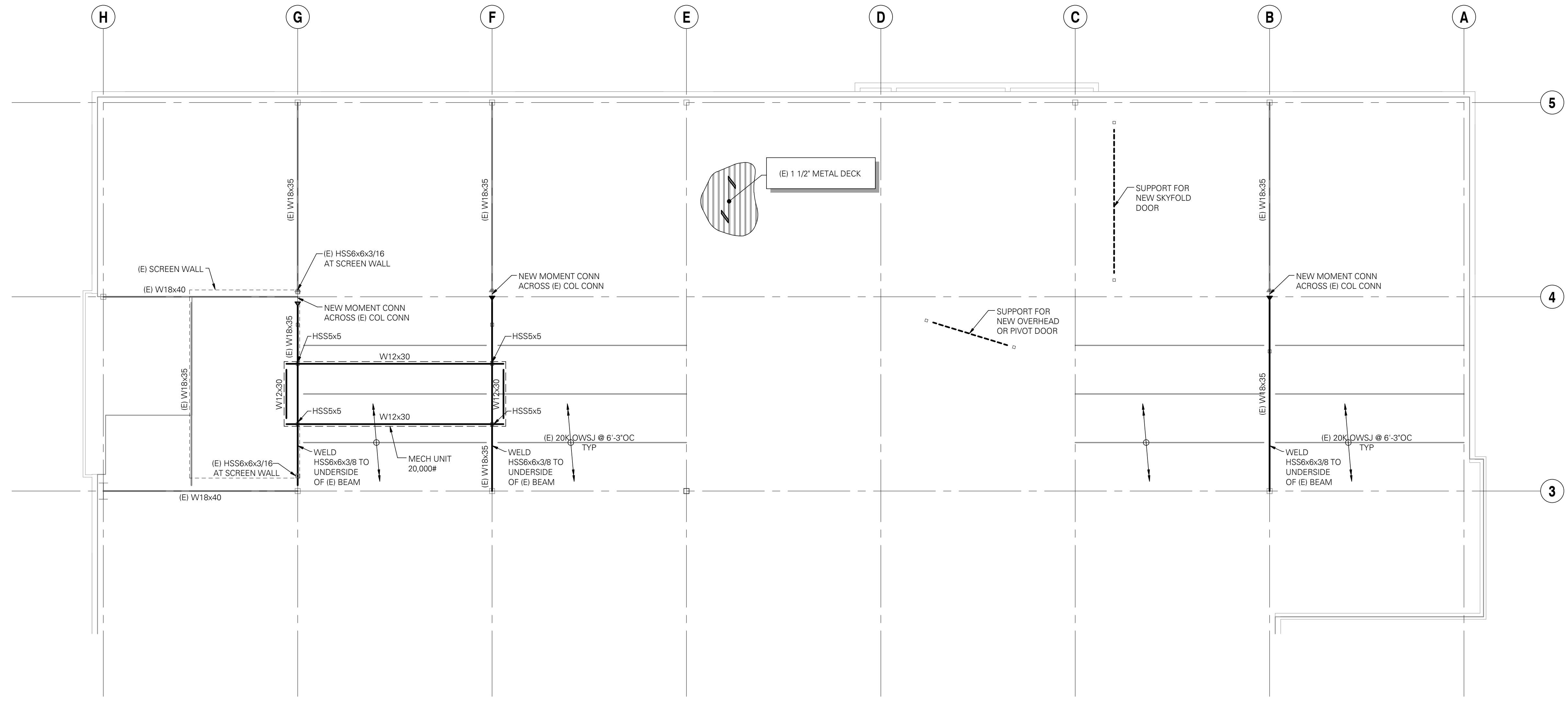


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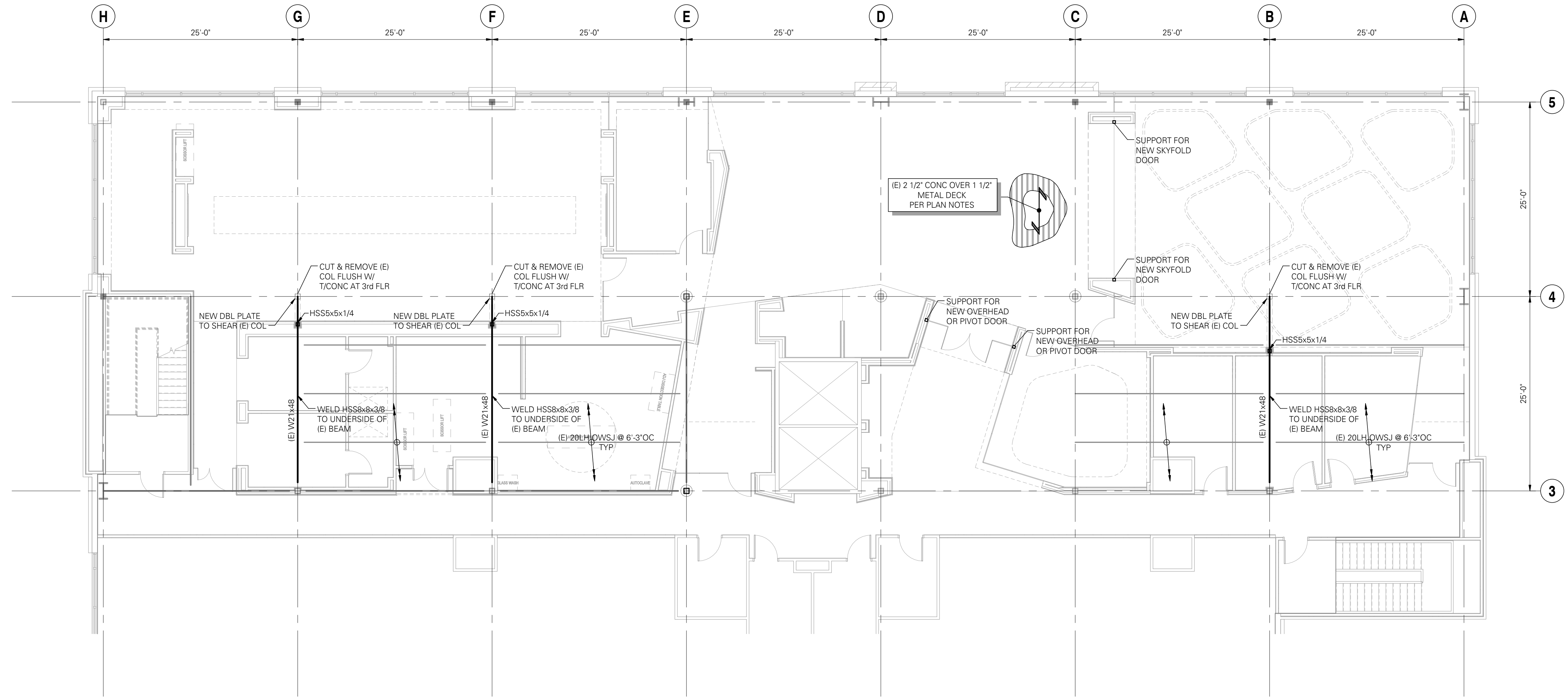
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K  
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ROOF FRAMING PLAN  
SCALE: 1/8" = 1'-0"



FLOOR FRAMING PLAN - LEVEL 3  
SCALE: 1/8" = 1'-0"

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Project Key Plan

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University of Idaho

University of Idaho WWAMI

700 S MAIN ST, MOSCOW, ID 83843

WWAMI

Project Phase

Date 11/23/16 Drawn By BSD

Project Number 16041-0241 Checked By CTC

Sheet Title  
**LEVEL 3 FLOOR FRAMING & ROOF FRAMING PLAN**

Sheet Number  
**S-231**

Rev. No.



EXHIBIT "B.2"

University of Idaho  
Moscow, Idaho

University of Idaho WWAMI  
Moscow, Idaho

Flad Project No.15788-00  
December 9, 2016

Pricing Set

Flad Architects

Flad & Associates, Inc.  
801 Second Avenue  
The Norton Building, Suite 315  
Seattle, Washington 98104

Structural Engineers

DCI Engineers  
707 West Second Avenue  
Spokane, Washington 99201

MEP Engineers

MW Consulting Engineers  
222 North Wall Street #200  
Spokane, Washington 99201



**DOCUMENT 00 0105**  
**CERTIFICATIONS PAGE**

**1.1 ARCHITECTURAL**

I hereby certify that the plans and specifications for Architectural Work were prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the State of Idaho.

---

Name: \_\_\_\_\_ Registration No. \_\_\_\_\_

**1.2 STRUCTURAL**

I hereby certify that the plans and specifications for Structural Engineering Work were prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Idaho.

---

Name: \_\_\_\_\_ Registration No. \_\_\_\_\_

**1.3 MECHANICAL**

I hereby certify that the plans and specifications for Mechanical Work were prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Idaho.

---

Name: \_\_\_\_\_ Registration No. \_\_\_\_\_

**1.4 ELECTRICAL**

I hereby certify that the plans and specifications for Electrical Work were prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Idaho.

---

Name: \_\_\_\_\_ Registration No. \_\_\_\_\_

**END OF DOCUMENT**





**SECTION 00 0110  
TABLE OF CONTENTS**

**PROCUREMENT AND CONTRACTING REQUIREMENTS**

**DIVISION 00 -- PROCUREMENT AND CONTRACTING REQUIREMENTS**

00 0105 - Certifications Page

00 0110 - Table of Contents

**SPECIFICATIONS**

**DIVISION 01 -- GENERAL REQUIREMENTS**

01 1000 - Summary	To be issued
01 2500 - Substitution Procedures	To be issued
01 2500.13 - Substitution Request Form	To be issued
01 2600 - Contract Modification Procedures	To be issued
01 2613 - Requests For Information	To be issued
01 2900 - Payment Procedures	To be issued
01 3100 - Project Management and Coordination	To be issued
01 3216 - Construction Progress Schedule	To be issued
01 3233 - Photographic Documentation	To be issued
01 3300 - Submittal Procedures	To be issued
01 4000 - Quality Requirements	To be issued
01 4533 - Code-Required Special Inspections	To be issued
01 5000 - Temporary Facilities and Controls	To be issued
01 6000 - Product Requirements	To be issued
01 7123 - Field Engineering	To be issued
01 7300 - Execution	To be issued
01 7329 - Cutting and Patching	To be issued
01 7419 - Construction Waste Management and Disposal	To be issued
01 7700 - Closeout Procedures	To be issued
01 7823 - Operation and Maintenance Data	To be issued
01 7839 - Project Record Documents	To be issued
01 9113 - General Commissioning Requirements	To be issued

**DIVISION 02 -- EXISTING CONDITIONS**

02 4100 - Demolition

**DIVISION 05 -- METALS**

05 5000 - Metal Fabrications

**DIVISION 06 -- WOOD, PLASTICS, AND COMPOSITES**

06 1000 - Rough Carpentry

06 4100 - Architectural Woodwork

**DIVISION 07 -- THERMAL AND MOISTURE PROTECTION**

07 0533 - Fire and Smoke Assembly Identification

07 2100 - Thermal Insulation

07 8413 - Penetration Firestopping

07 9200 - Joint Sealants

**DIVISION 08 -- OPENINGS**

- 08 1213 - Hollow Metal Frames
- 08 1416 - Flush Wood Doors
- 08 3100 - Access Doors and Panels
- 08 4313 - Aluminum-Framed Storefronts
- 08 7100 - Door Hardware
- 08 8000 - Glazing

**DIVISION 09 -- FINISHES**

- 09 2116.23 - Gypsum Board Shaft Wall Assemblies
- 09 2216 - Non-Structural Metal Framing
- 09 2813 - Cementitious Backer Boards
- 09 2900 - Gypsum Board
- 09 3000 - Tiling
- 09 5100 - Suspended Acoustical Ceilings
- 09 6513 - Resilient Base and Accessories
- 09 6516.23 - Vinyl Sheet Flooring
- 09 6813 - Tile Carpeting
- 09 9123 - Interior Painting

**DIVISION 10 -- SPECIALTIES**

- 10 1101 - Visual Display Boards
- 10 2123 - Cubicles
- 10 2249 - Vertical Lifting Partitions
- 10 2601 - Wall and Corner Guards
- 10 2814 - Toilet and Bath Accessories
- 10 4400 - Fire Protection Specialties

**DIVISION 11 -- EQUIPMENT**

- 11 5343.13 - Emergency Wash/Shower Safety Equipment
- 11 7829 - Necropsy Equipment

**DIVISION 12 -- FURNISHINGS**

- 12 2400 - Window Shades
- 12 3553.13 - Metal Laboratory Casework
- 12 3600 - Countertops
- 12 3653 - Laboratory Casework Tops

**DIVISION 20 -- MECHANICAL**

- 20 1000 - General Requirements
- 20 1002 - Additions or Remodeled Facilities
- 20 1006 - Project Finalization
- 20 1007 - Testing, Adjusting, and Balancing
- 20 1009 - Mechanical Commissioning Support

**DIVISION 21 -- FIRE SUPPRESSION**

- 21 1313 - Sprinkler Systems

**DIVISION 22 -- PLUMBING**

- 22 0503 - Plumbing Piping and Valves
- 22 0504 - Plumbing Specialties
- 22 0513 - Motors
- 22 0515 - Gauges and Meters
- 22 0529 - Supports, Anchors, Curbs, Seals and Flashings
- 22 0548 - Vibration Isolation
- 22 0553 - Mechanical Identification
- 22 0700 - Piping Insulation
- 22 3000 - Plumbing Equipment
- 22 3100 - Equipment Installed Only
- 22 4000 - Plumbing Fixtures

**DIVISION 23 -- HEATING, VENTILATING, AND AIR-CONDITIONING (HVAC)**

- 23 0513 - Motors
- 23 0515 - Gauges and Meters
- 23 0529 - Supports, Anchors, Curbs, Seals and Flashings
- 23 0548 - Vibration Isolation
- 23 0553 - Mechanical Identification
- 23 0700 - HVAC Insulation
- 23 0923 - Energy Management and Direct Digital Control System
- 23 0933 - Variable Frequency Drives
- 23 2300 - Refrigerant Piping and Specialties
- 23 3100 - Ductwork
- 23 3300 - Ductwork Accessories
- 23 3400 - HVAC Fans
- 23 3500 - Sound Attenuators
- 23 3600 - Air Terminal Units
- 23 3700 - Air Outlets and Inlets
- 23 4000 - Air Cleaning Devices
- 23 6201 - Variable Refrigerant Flow Systems
- 23 7413 - Outdoor, Central Station, Air Handling Units
- 23 8310 - Terminal Heat Transfer Units

**DIVISION 26 -- ELECTRICAL**

- 26 0101 - Basic Electrical Requirements
- 26 0102 - Project Finalization
- 26 0160 - Electrical Demolition for Remodeling
- 26 0519 - Building Wire and Cable
- 26 0520 - Equipment Wiring
- 26 0526 - Grounding and Bonding
- 26 0530 - Conduit
- 26 0531 - Surface Raceways
- 26 0532 - Boxes

26 0553 - Electrical Identification  
26 2726 - Wiring Devices  
26 2727 - Supporting Devices  
26 5000 - Lighting

**END OF SECTION 00 0110**

**SECTION 02 4100  
DEMOLITION**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Selective demolition of building elements for alteration purposes.

**1.02 MATERIALS OWNERSHIP**

- A. Unless otherwise indicated, demolition waste becomes property of Contractor.

**1.03 FIELD CONDITIONS**

- A. Conditions existing at time of inspection for bidding purpose will be maintained by Owner as far as practical.
- B. Hazardous Materials: It is not expected that hazardous materials will be encountered in the Work.

**PART 2 PRODUCTS -- NOT USED**

**PART 3 EXECUTION**

**3.01 GENERAL PROCEDURES AND PROJECT CONDITIONS**

- A. Comply with applicable codes and regulations for demolition operations and safety of adjacent structures and the public.
  - 1. Obtain required permits.
  - 2. Comply with applicable requirements of NFPA 241.
  - 3. Take precautions to prevent catastrophic or uncontrolled collapse of structures to be removed; do not allow worker or public access within range of potential collapse of unstable structures.
  - 4. Provide, erect, and maintain temporary barriers and security devices.
- B. If hazardous materials are discovered during removal operations, stop work and notify Architect and Owner; hazardous materials include regulated asbestos containing materials, lead, PCBs, and mercury.

**3.02 SELECTIVE DEMOLITION FOR ALTERATIONS**

- A. Drawings showing existing construction and utilities are based on casual field observation and existing record documents only.
- B. Maintain weatherproof exterior building enclosure except for interruptions required for replacement or modifications; take care to prevent water and humidity damage.
- C. Remove existing work as indicated and as required to accomplish new work.
- D. Protect existing work to remain.

**3.03 DEBRIS AND WASTE REMOVAL**

- A. Remove debris, junk, and trash from site.

**END OF SECTION 02 4100**



**SECTION 05 5000  
METAL FABRICATIONS**

**PART 1 GENERAL****1.01 SECTION INCLUDES**

- A. Miscellaneous steel framing and supports.
- B. Steel framing and supports for countertops.

**1.02 SUBMITTALS**

- A. Product Data: For the following:
  - 1. Paint products.
  - 2. Grout.
- B. Shop Drawings: Show fabrication and installation details. Include plans, elevations, sections, and details of metal fabrications and their connections. Show anchorage and accessory items.

**PART 2 PRODUCTS****2.01 MISCELLANEOUS MATERIALS**

- A. Universal Shop Primer: Fast-curing, lead- and chromate-free, universal modified-alkyd primer complying with MPI#79 and compatible with topcoat.
- B. Nonshrink, Nonmetallic Grout: Factory-packaged, nonstaining, noncorrosive, nongaseous grout complying with ASTM C1107/C1107M. Provide grout specifically recommended by manufacturer for interior and exterior applications.

**2.02 MISCELLANEOUS FRAMING AND SUPPORTS**

- A. General: Provide steel framing and supports not specified in other Sections as needed to complete the Work.
- B. Fabricate units from steel shapes, plates, and bars of welded construction unless otherwise indicated. Fabricate to sizes, shapes, and profiles indicated and as necessary to receive adjacent construction.

**2.03 STEEL FRAMING AND SUPPORTS FOR COUNTERTOPS**

- A. Provide steel framing and supports for countertops as indicated and necessary to complete the Work.
- B. Fabricate units from structural-steel shapes, plates, and bars of welded construction, unless otherwise indicated. Fabricate to sizes, shapes, and profiles indicated. Cut, drill, and tap units to receive hardware, hangers, and similar items.

**PART 3 EXECUTION****3.01 INSTALLATION, GENERAL**

- A. Cutting, Fitting, and Placement: Perform cutting, drilling, and fitting required for installing metal fabrications. Set metal fabrications accurately in location, alignment, and elevation; with edges and surfaces level, plumb, true, and free of rack; and measured from established lines and levels.
- B. Fit exposed connections accurately together to form hairline joints. Weld connections that are not to be left as exposed joints but cannot be shop welded because of shipping size limitations. Do not weld, cut, or abrade surfaces of exterior units that have been hot-dip galvanized after fabrication and are for bolted or screwed field connections.
- C. Field Welding: Comply with the following requirements:
  - 1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
  - 2. Obtain fusion without undercut or overlap.
  - 3. Remove welding flux immediately.

4. At exposed connections, finish exposed welds and surfaces smooth and blended so no roughness shows after finishing and contour of welded surface matches that of adjacent surface.

**END OF SECTION 05 5000**



**SECTION 06 1000  
ROUGH CARPENTRY**

**PART 1 GENERAL****1.01 SECTION INCLUDES**

- A. Preservative treated wood materials.
- B. Fire retardant treated wood materials.
- C. Miscellaneous wood nailers, furring, and grounds.

**1.02 SUBMITTALS**

- A. Product Data: Provide technical data on wood preservative materials, application instructions, and fire retardant materials.

**PART 2 PRODUCTS****2.01 GENERAL REQUIREMENTS**

- A. Dimension Lumber: Comply with PS 20 and requirements of specified grading agencies.
  - 1. If no species is specified, provide any species graded by the agency specified; if no grading agency is specified, provide lumber graded by any grading agency meeting the specified requirements.
  - 2. Grading Agency: Any grading agency whose rules are approved by the Board of Review, American Lumber Standard Committee ([www.alsc.org](http://www.alsc.org)) and who provides grading service for the species and grade specified; provide lumber stamped with grade mark unless otherwise indicated.
- B. Lumber fabricated from old growth timber is not permitted.

**2.02 DIMENSION LUMBER FOR CONCEALED APPLICATIONS**

- A. Sizes: Nominal sizes as indicated on drawings, S4S.
- B. Moisture Content: S-dry or MC19.
- C. Miscellaneous Framing, Blocking, Nailers, Grounds, and Furring:
  - 1. Lumber: S4S, No. 2 or Standard Grade.
  - 2. Boards: Standard or No. 3.

**2.03 CONSTRUCTION PANELS**

- A. Communications and Electrical Room Mounting Boards: PS 1 A-C plywood; 3/4 inch thick; flame spread index of 25 or less, smoke developed index of 450 or less, when tested in accordance with ASTM E84.

**2.04 ACCESSORIES**

- A. Fasteners and Anchors:
  - 1. Metal and Finish: Hot-dipped galvanized steel complying with ASTM A153/A153M for high humidity and preservative-treated wood locations, unfinished steel elsewhere.
  - 2. Drywall Screws: Bugle head, hardened steel, power driven type, length three times thickness of sheathing.

**2.05 FACTORY WOOD TREATMENT**

- A. Treated Lumber and Plywood: Comply with requirements of AWPA U1 - Use Category System for wood treatments determined by use categories, expected service conditions, and specific applications.
  - 1. Fire-Retardant Treated Wood: Mark each piece of wood with producer's stamp indicating compliance with specified requirements.
  - 2. Preservative-Treated Wood: Provide lumber and plywood marked or stamped by an ALSC-accredited testing agency, certifying level and type of treatment in accordance with AWPA standards.

**PART 3 EXECUTION**

**3.01 INSTALLATION - GENERAL**

- A. Select material sizes to minimize waste.
- B. Where treated wood is used on interior, provide temporary ventilation during and immediately after installation sufficient to remove indoor air contaminants.

**END OF SECTION 06 1000**

**SECTION 06 4100  
ARCHITECTURAL WOODWORK**

**PART 1 GENERAL****1.01 SECTION INCLUDES**

- A. Plastic laminate faced architectural cabinets.
- B. Cabinet hardware.

**1.02 SUBMITTALS**

- A. Shop Drawings: Indicate materials, component profiles, fastening methods, jointing details, and accessories.
- B. Samples: Submit actual samples of architectural cabinet construction, minimum 24 inches square, illustrating proposed cabinet and shelf unit substrate and finish.
- C. Samples: Submit actual sample items of proposed pulls, hinges, shelf standards, and locksets, demonstrating hardware design, quality, and finish.

**PART 2 PRODUCTS****2.01 CABINETS**

- A. Quality Grade: Unless otherwise indicated provide products of quality specified by AWI/AWMAC/WI (AWS) for Custom Grade.
- B. Plastic Laminate Faced Cabinets: Premium grade.
  - 1. Finish - Exposed Exterior Surfaces: Decorative laminate.
  - 2. Finish - Exposed Interior Surfaces: Decorative laminate.
  - 3. Finish - Concealed Surfaces: Manufacturer's option.
  - 4. Door and Drawer Front Edge Profiles: Radius edge with thick applied band.
  - 5. Door and Drawer Front Retention Profiles: Fixed panel.
  - 6. Casework Construction Type: Type A - Frameless.
  - 7. Adjustable Shelf Loading: 50 lbs. per sq. ft.
    - a. Deflection: L/144.
  - 8. Cabinet Style: Flush overlay.
  - 9. Cabinet Doors and Drawer Fronts: Flush style.
  - 10. Drawer Construction Technique: Dovetail joints.

**2.02 WOOD-BASED COMPONENTS**

- A. Wood fabricated from old growth timber is not permitted.

**2.03 LAMINATE MATERIALS**

- A. High Pressure Decorative Laminate (HPDL): NEMA LD 3, types as recommended for specific applications.
- B. Provide specific types as follows:
  - 1. Horizontal Surfaces: HGS, 0.048 inch nominal thickness, color as selected, finish as scheduled.
  - 2. Vertical Surfaces: VGS, 0.028 inch nominal thickness, colors as selected by Architect, finish as scheduled.
  - 3. Cabinet Liner: CLS, 0.020 inch nominal thickness, colors as selected by Architect, finish as selected.
  - 4. Laminate Backer: BKL, 0.020 inch nominal thickness, undecorated; for application to concealed backside of panels faced with high pressure decorative laminate.

**2.04 COUNTERTOPS**

- A. Refer to Section 12 3600 - Countertops.

**2.05 ACCESSORIES**

- A. Adhesive: Type that does not contain urea formaldehyde.

- B. Bolts, Nuts, Washers, Lags, Pins, and Screws: Of size and type to suit application; galvanized or chrome-plated finish in concealed locations and stainless steel or chrome-plated finish in exposed locations.
- C. Grommets: Standard plastic grommets for cut-outs, in color to match adjacent surface.

**2.06 HARDWARE**

- A. Hardware: BHMA A156.9, types as recommended by fabricator for quality grade specified.
- B. Adjustable Shelf Supports: Standard back-mounted system using surface mounted metal shelf standards and coordinated cantilevered shelf brackets, satin chrome finish, for nominal 1 inch spacing adjustments.
- C. Drawer and Door Pulls: "U" shaped wire pull, steel with satin finish, 4 inch centers.
- D. Cabinet Locks: Keyed cylinder, two keys per lock, master keyed, steel with satin finish.
- E. Catches: Magnetic.
- F. Drawer Slides:
  - 1. Type: Full extension with overtravel.
  - 2. Static Load Capacity: Heavy Duty grade.
  - 3. Mounting: Side mounted.
- G. Hinges: European style concealed self-closing type, 100 degrees of opening, BHMA No. 156.9, steel with satin finish, 170 degree opening.

**2.07 FABRICATION**

- A. Assembly: Shop assemble cabinets for delivery to site in units easily handled and to permit passage through building openings.
- B. Edging: Fit shelves, doors, and exposed edges with specified edging. Do not use more than one piece for any single length.
- C. Fitting: When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide matching trim for scribing and site cutting.
- D. Plastic Laminate: Apply plastic laminate finish in full uninterrupted sheets consistent with manufactured sizes. Fit corners and joints hairline; secure with concealed fasteners. Slightly bevel arises.
  - 1. Apply laminate backing sheet to reverse side of plastic laminate finished surfaces.
  - 2. Cap exposed plastic laminate finish edges with material of same finish and pattern.
- E. Mechanically fasten back splash to countertops as recommended by laminate manufacturer at 16 inches on center.
- F. Provide cutouts for plumbing fixtures. Verify locations of cutouts from on-site dimensions. Prime paint cut edges.

**PART 3 EXECUTION**

**3.01 INSTALLATION**

- A. Install work in accordance with AWI/AWMAC/WI (AWS) requirements for grade indicated.
- B. Grade: Install cabinets to comply with same grade as item to be installed
- C. Set and secure cabinets in place, assuring that they are rigid, plumb, and level.
  - 1. Shim as required with concealed shims. Install level and plumb to a tolerance of 1/8 inch in 96 inches.
- D. Use concealed joint fasteners to align and secure adjoining cabinet units.

**END OF SECTION 06 4100**

**SECTION 07 0553  
FIRE AND SMOKE ASSEMBLY IDENTIFICATION**

**PART 1 GENERAL****1.01 SECTION INCLUDES**

- A. Marking and identification for fire and smoke assemblies including:
  1. Fire walls.
  2. Fire barriers.
  3. Fire partitions.
  4. Smoke barriers.
  5. Smoke partitions.
  6. Other assemblies as required.

**1.02 SUBMITTALS**

- A. Product Data: Manufacturer's printed product literature for each type of marking, indicating font, foreground and background colors, wording, and overall dimensions.
- B. Schedule: Completely define scope of proposed marking. Indicate location of affected walls and partitions, and number of markings.
- C. Samples: Submit two samples of each type of marking proposed for use, of size similar to that required for project, illustrating font, wording, and method of application.

**PART 2 PRODUCTS****2.01 PERFORMANCE REQUIREMENTS**

- A. Identification and marking of fire walls, fire barriers, fire partitions, smoke barriers, smoke partitions, and other walls or surfaces required by the ICC (IBC) or authorities having jurisdiction (AHJ).
  1. Permanently identify with signs or stenciling.
- B. Identification locations:
  1. Accessible concealed floor, floor-ceiling, or attic spaces.
  2. Within 15 feet of each end of each assembly and at intervals not exceeding 30 feet measured horizontally along the assembly. Avoid locations obstructed by other construction.
  3. Lettering: Minimum 3 inches high, with minimum 3/8 inch stroke, in color contrasting with background, and approved by the AHJ.
  4. Wording (substitute hour rating for "XX"): (or similar as approved by AHJ):  
 "XX" HOUR RATED  
 FIRE AND/OR SMOKE ASSEMBLY  
 PROTECT ALL OPENINGS AND PENETRATIONS
- C. Languages: Provide all markings in English.

**PART 3 EXECUTION****3.01 INSTALLATION**

- A. Identify fire and smoke protection assemblies with preprinted signs or by painting with stencil. Identification shall be visible to anyone seeking to remove, penetrate, or alter fire and smoke protection assemblies and shall be permanent.
  1. For preprinted signs, use mechanical fasteners or adhesives capable of permanently bonding signs to surfaces on which signs are placed.
  2. For painted signs; ensure compatibility of coats and substrates.
  3. Provide identification on each side of assembly.

**END OF SECTION 07 0553**



**SECTION 07 2100  
THERMAL INSULATION**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Batt insulation for filling perimeter window spaces and crevices in exterior wall.
- B. Sound attenuation insulation.

**1.02 SUBMITTALS**

- A. Product Data: Provide data on product characteristics, performance criteria, and product limitations.

**PART 2 PRODUCTS**

**2.01 BATT INSULATION MATERIALS**

- A. Where batt insulation is indicated, either glass fiber or mineral fiber batt insulation may be used, at Contractor's option.
- B. Glass Fiber Batt Insulation: Flexible preformed batt or blanket, complying with ASTM C665; friction fit.
  - 1. Flame Spread Index: 25 or less, when tested in accordance with ASTM E84.
  - 2. Smoke Developed Index: 450 or less, when tested in accordance with ASTM E84.
  - 3. Combustibility: Non-combustible, when tested in accordance with ASTM E136, except for facing, if any.
  - 4. Facing: Unfaced.
- C. Mineral Fiber Batt Insulation: Flexible or semi-rigid preformed batt or blanket, complying with ASTM C665; friction fit; unfaced flame spread index of 0 (zero) when tested in accordance with ASTM E84.
  - 1. Smoke Developed Index: 0 (zero), when tested in accordance with ASTM E84.

**2.02 SOUND ATTENUATION INSULATION MATERIALS**

- A. Sound Attenuation Insulation: Mineral fiber insulation; Flexible or semi-rigid preformed batt or blanket, complying with ASTM C665; friction fit; unfaced flame spread index of 0 (zero) when tested in accordance with ASTM E84.
  - 1. Smoke Developed Index: 0 (zero), when tested in accordance with ASTM E84.
  - 2. Minimum Density: Minimum 2.5 lb/cu ft.

**PART 3 EXECUTION**

**3.01 BATT INSTALLATION**

- A. Install insulation in accordance with manufacturer's instructions.
- B. Install in exterior wall spaces without gaps or voids. Do not compress insulation.

**END OF SECTION 07 2100**





**SECTION 07 8413  
PENETRATION FIRESTOPPING**

**PART 1 GENERAL****1.01 SECTION INCLUDES**

- A. Penetrations in fire-resistance-rated floors and walls.
- B. Penetrations in smoke barriers.

**1.02 SUBMITTALS**

- A. Product Data: Manufacturer's product literature for each type of firestop product to be installed on Project. Indicate uses, performance and limitation criteria, and test data.
  - 1. SUBMIT DATA FOR EACH TYPE OF FIRESTOPPING FOR EACH SPECIFIC CONDITION AND EACH SPECIFIC APPLICATION.
- B. Shop Drawings: Show materials, installation methods, and relationships to adjacent construction for each through fire-penetration fire stop system, each type of construction condition penetrated, each type of penetrating item; and each fire resistive joint system.
  - 1. SUBMIT SHOP DRAWINGS FOR EACH SPECIFIC INSTALLATION CONDITION. Identify intended products and applicable UL Design No.
- C. Product Schedule: For each penetration firestopping system. Include location and design designation of qualified testing and inspecting agency.

**1.03 QUALITY ASSURANCE**

- A. Installer Qualifications: A firm that has been approved by FM Global per FM 4991 - Approval of Firestop Contractors, or been evaluated by UL and found to comply with its "Qualified Firestop Contractor Program Requirements."

**1.04 PRE-INSTALLATION MEETING**

- A. Pre-Installation Meeting: Conduct meeting at Project site minimum two weeks prior to start of firestopping installation and associated work.
- B. Record discussion, including agreement or disagreement on significant matters. Furnish copies of report to all parties present within 5 days after meeting date.

**PART 2 PRODUCTS****2.01 PERFORMANCE REQUIREMENTS**

- A. General: Provide firestopping systems that are produced and installed to resist the spread of fire, according to requirements indicated, and resist passage of smoke and other gases. Firestop systems shall maintain the original fire resistance rating of floor, wall, or partition assembly in which firestop system is being installed.
- B. F-Rated Through-Penetration Firestop Systems: Provide through-penetration firestop systems with F ratings indicated, as determined per ASTM E814, but not less than that equaling or exceeding the fire-resistance rating of the constructions penetrated.
- C. T-Rated Through-Penetration Firestop Systems: Provide through-penetration firestop systems with T ratings, in addition to F ratings, as determined per ASTM E814, where indicated and where systems protect penetrating items exposed to contact with adjacent materials in occupiable floor areas.

**2.02 PENETRATION FIRESTOPPING**

- A. Penetrations in Fire-Resistance-Rated Floors and Walls: Provide penetration firestopping with ratings determined per ASTM E814 or UL 1479, based on testing at a positive pressure differential of 0.01-inch wg.
  - 1. F-Rating: Not less than the fire-resistance rating of constructions penetrated.
- B. Penetrations in Smoke Barriers: Provide penetration firestopping with ratings determined per UL 1479.
- C. Accessories: Provide components for each penetration firestopping system that are needed to install fill materials and to maintain ratings required. Use only those components specified by

penetration firestopping manufacturer and approved by qualified testing and inspecting agency for firestopping indicated.

**PART 3 EXECUTION**

**3.01 CONDITIONS REQUIRING FIRESTOPPING**

- A. Provide firestopping for conditions specified whether or not firestopping is indicated, and if indicated, whether such material is designated as insulation, safing, or otherwise.
- B. Penetrations: Included are conduit, cable, wire, pipe, duct, or other elements which pass through one or both outer surfaces of a fire rated floor, wall, or partition.
- C. Provide firestopping to fill miscellaneous voids and openings in fire-rated construction in manner essentially the same as specified herein before.

**3.02 INSTALLATION**

- A. General: Install penetration firestopping to comply with manufacturer's written installation instructions and published drawings for products and applications indicated.
- B. Install forming materials and other accessories of types required to support fill materials during their application and in the position needed to produce cross-sectional shapes and depths required to achieve fire ratings indicated.
- C. Install fill materials for firestopping by proven techniques to produce the following results:

**3.03 IDENTIFICATION**

- A. Identify penetration firestopping with preprinted metal or plastic labels. Attach labels permanently to surfaces adjacent to and within 6 inches of firestopping edge so labels will be visible to anyone seeking to remove penetrating items or firestopping. Use mechanical fasteners or self-adhering-type labels with adhesives capable of permanently bonding labels to surfaces on which labels are placed.
  - "Warning - Penetration Firestopping - Do Not Disturb. Notify Building Management of Any Damage."
  - Contractor's name, address, and phone number.
  - Designation of applicable testing and inspecting agency.
  - Date of installation.
  - Manufacturer's name.
  - Installer's name.

**3.04 FIELD QUALITY CONTROL**

- A. Owner will engage a qualified testing agency to perform tests and inspections.

**3.05 PENETRATION FIRESTOPPING SCHEDULE**

- A. Where UL-classified systems are indicated, they refer to system numbers in UL (FRD) under product Category XHEZ.
  - 1. Floor Penetration Systems
    - a. Concrete floors with a minimum thickness less than or equal to 5 inches.
      - 1) UL-Classified Products FA Series or CA Series.
    - b. Concrete floors with a minimum thickness greater than 5 inches.
      - 1) UL-Classified Products FB Series or CB Series.
  - 2. Wall Penetration Systems
    - a. Framed walls.
      - 1) UL-Classified Products WL Series or CL Series.

**END OF SECTION 07 8413**

**SECTION 07 9200  
JOINT SEALANTS**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Silicone joint sealants.
- B. Latex joint sealants.

**PART 2 PRODUCTS**

**2.01 MATERIALS, GENERAL**

- A. Compatibility: Provide joint sealants, backings, and other related materials that are compatible with one another and with joint substrates under conditions of service and application, as demonstrated by joint-sealant manufacturer, based on testing and field experience.
- B. Colors of Exposed Joint Sealants: As selected by Architect from manufacturer's full range.

**2.02 SILICONE JOINT SEALANTS**

- A. Single-Component, Nonsag, Non-staining, Neutral-Curing Silicone Joint Sealant: ASTM C920, Type S, Grade NS, Class 50, for Use NT, NT, G, M, A, and O.

**2.03 LATEX JOINT SEALANTS**

- A. Latex Joint Sealant: Acrylic latex or siliconized acrylic latex, ASTM C834, Type OP, Grade NF.

**2.04 JOINT SEALANT BACKING**

- A. Provide sealant backings of material that are nonstaining; are compatible with joint substrates, sealants, primers, and other joint fillers; and are approved for applications indicated by sealant manufacturer based on field experience and laboratory testing.

**PART 3 EXECUTION**

**3.01 PREPARATION**

- A. Surface Cleaning of Joints: Clean out joints immediately before installing joint sealants to comply with joint-sealant manufacturer's written instructions.
- B. Joint Priming: Prime joint substrates where recommended by joint-sealant manufacturer or as indicated by preconstruction joint-sealant-substrate tests or prior experience. Apply primer to comply with joint-sealant manufacturer's written instructions. Confine primers to areas of joint-sealant bond; do not allow spillage or migration onto adjoining surfaces.

**3.02 INSTALLATION OF JOINT SEALANTS**

- A. Sealant Installation Standard: Comply with recommendations in ASTM C1193 for use of joint sealants as applicable to materials, applications, and conditions indicated.
- B. Install sealant backings of kind indicated to support sealants during application and at position required to produce cross-sectional shapes and depths of installed sealants relative to joint widths that allow optimum sealant movement capability.

**END OF SECTION 07 9200**



**SECTION 08 1213  
HOLLOW METAL FRAMES**

**PART 1 GENERAL****1.01 SECTION INCLUDES**

- A. Non-fire-rated hollow metal frames for non-hollow metal doors.
- B. Fire-rated hollow metal frames for non-hollow metal doors.
- C. Interior glazed borrowed lite frames.

**1.02 SUBMITTALS**

- A. Product Data: Materials and details of design and construction, hardware locations, reinforcement type and locations, anchorage and fastening methods, and finishes; and one copy of referenced grade standard.
- B. Shop Drawings: Details of each opening, showing elevations, glazing, frame profiles, and identifying location of different finishes, if any.

**1.03 DELIVERY, STORAGE, AND HANDLING**

- A. Store in accordance with applicable requirements and in compliance with standards and/or custom guidelines as indicated.

**PART 2 PRODUCTS****2.01 DESIGN CRITERIA**

- A. Door Frame Type: Provide hollow metal door frames with integral casings.
- B. Steel used for fabrication of frames shall comply with one or more of the following requirements; Galvannealed steel conforming to ASTM A653/A653M, cold-rolled steel conforming to ASTM A1008/A1008M, or hot-rolled pickled and oiled (HRPO) steel conforming to ASTM A1011/A1011M, Commercial Steel (CS) Type B for each.
- C. Accessibility: Comply with ICC A117.1 and ADA Standards.
- D. Glazed Lights: Non-removable stops on non-secure side; sizes and configurations as indicated on drawings. Style: Manufacturers standard.
- E. Hardware Preparations, Selections and Locations: Comply with BHMA A156.115, NAAMM HMMA 830 and NAAMM HMMA 831 or ANSI/SDI A250.8 (SDI-100) in accordance with specified requirements.
- F. Frames for Interior Glazing or Borrowed Lites: Construction and face dimensions to match door frames, and as indicated on drawings.
- G. Frames Wider than 48 Inch: Reinforce with steel channel fitted tightly into head of frame, flush with top.

**2.02 HOLLOW METAL DOOR FRAMES WITH INTEGRAL CASINGS**

- A. Frame Finish: Factory primed and field finished.
- B. Interior Door Frames, Non-Fire Rated: Full profile/continuously welded type.
  - 1. Based on SDI Standards: ANSI/SDI A250.8 (SDI-100).
    - a. Level 2 - Heavy-duty.
    - b. Physical Performance Level B, 500,000 cycles; in accordance with ANSI/SDI A250.4.
    - c. Frame Metal Thickness: 16 gage, 0.053 inch, minimum.
- C. Fire-Rated Door Frames: Full profile/continuously welded type.
  - 1. Based on SDI Standards: ANSI/SDI A250.8 (SDI-100).
    - a. Level 2 - Heavy-duty.
    - b. Physical Performance Level B, 500,000 cycles; in accordance with ANSI/SDI A250.4.
    - c. Frame Metal Thickness: 16 gage, 0.053 inch, minimum.

**2.03 ACCESSORIES**

- A. Silencers: Resilient rubber, fitted into drilled hole; 3 on strike side of single door, 3 on center mullion of pairs, and 2 on head of pairs without center mullions.

**2.04 FINISHES**

- A. Primer: Rust-inhibiting, complying with ANSI/SDI A250.10, door manufacturer's standard.

**END OF SECTION 08 1213**

**SECTION 08 1416  
FLUSH WOOD DOORS**

**PART 1 GENERAL****1.01 SECTION INCLUDES**

- A. Flush wood doors; flush and flush glazed configuration; non-rated.

**1.02 SUBMITTALS**

- A. Product Data: Indicate door core materials and construction; veneer species, type and characteristics.
- B. Shop Drawings: Show doors and frames, elevations, sizes, types, swings, undercuts, beveling, blocking for hardware, factory machining, factory finishing, cutouts for glazing and other details.

**1.03 QUALITY ASSURANCE****PART 2 PRODUCTS****2.01 DOORS AND PANELS**

- A. Doors: See drawings for locations and additional requirements.
  - 1. Quality Level: Premium Grade, Heavy Duty performance, in accordance with AWI/AWMAC/WI (AWS).
  - 2. Wood Veneer Faced Doors: 5-ply unless otherwise indicated.
- B. Interior Doors: 1-3/4 inches thick unless otherwise indicated; flush construction.
  - 1. Provide solid core doors at each location.

**2.02 DOOR AND PANEL CORES**

- A. Non-Rated Solid Core and 20 Minute Rated Doors: Type particleboard core (PC), plies and faces as indicated.

**2.03 DOOR FACINGS**

- A. Veneer Facing for Transparent Finish: To be selected by Architect, HPVA Grade A, slice/cut to be selected by Architect, with book match between leaves of veneer, running match of spliced veneer leaves assembled on door or panel face.
  - 1. Vertical Edges: Same species as face veneer.
  - 2. "Pair Match" each pair of doors; "Set Match" pairs of doors within 10 feet of each other when doors are closed.
- B. Facing Adhesive: Type I - waterproof.

**2.04 ACCESSORIES**

- A. Glazing Stops: Wood, of same species as door facing, butted corners; prepared for countersink style tamper proof screws.
- B. Astragals for Non-Rated Double Doors: Steel, T shaped, overlapping and recessed at face edge.
- C. Door Hardware: As specified in Section 08 7100.

**2.05 DOOR CONSTRUCTION**

- A. Fabricate doors in accordance with door quality standard specified.
- B. Factory machine doors for hardware other than surface-mounted hardware, in accordance with hardware requirements and dimensions.
- C. Factory fit doors for frame opening dimensions identified on shop drawings, with edge clearances in accordance with specified quality standard.

**2.06 FACTORY FINISHING - WOOD VENEER DOORS**

- A. Finish work in accordance with AWI/AWMAC/WI (AWS), Section 5 - Finishing for grade specified and as follows:
  - 1. Transparent:
    - a. System - 9, UV Curable, Acrylated Epoxy, Polyester or Urethane.

- b. Stain: As selected by Architect.
- c. Sheen: Satin.
- B. Factory finish doors in accordance with approved sample.
- C. Seal door top edge with color sealer to match door facing.

**PART 3 EXECUTION**

**3.01 INSTALLATION**

- A. Install doors in accordance with manufacturer's instructions and specified quality standard.
- B. Coordinate installation of doors with installation of frames and hardware.

**END OF SECTION 08 1416**



**SECTION 08 3100  
ACCESS DOORS AND PANELS**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Wall access door and frame units.

**PART 2 PRODUCTS**

**2.01 ACCESS DOOR AND PANEL APPLICATIONS**

- A. Walls, Unless Otherwise Indicated:
  - 1. Material: Steel.
  - 2. Size: 12 by 12 inch, unless otherwise indicated.
  - 3. Standard duty, hinged door.
  - 4. Tool-operated spring or cam lock; no handle.
  - 5. In All Wall Types: Surface mounted face frame and door surface flush with frame surface.
- B. Walls in Wet Areas:
  - 1. Material: Steel, hot-dipped zinc or zinc-aluminum-alloy coated.
  - 2. Size: 12 by 12 inch, unless otherwise indicated.
  - 3. Standard duty, hinged door.
  - 4. Tool-operated spring or cam lock; no handle.
  - 5. In All Wall Types: Surface mounted face frame and door surface flush with frame surface.

**2.02 WALL AND CEILING UNITS**

- A. Access Doors: Factory fabricated door and frame units, fully assembled units with corner joints welded, filled, and ground flush; square and without rack or warp; coordinate requirements with assemblies that units are to be installed in.
  - 1. Door Style: Single thickness with rolled or turned in edges.
  - 2. Frames: 16 gage, 0.0598 inch, minimum.
  - 3. Single Thickness Steel Door Panels: 1/16 inch, minimum.
  - 4. Steel Finish: Primed.
  - 5. Primed and Factory Finish: Polyester powder coat; color as selected by Architect from manufacturer's standard colors.
  - 6. Hardware:
    - a. Latch/Lock: Tamperproof tool-operated cam latch.
    - b. Number of Locks/Latches Required: As recommended by the manufacturer for the size of the unit.

**PART 3 EXECUTION**

**3.01 INSTALLATION**

- A. Install units in accordance with manufacturer's instructions.
- B. Install frames plumb and level in openings. Secure rigidly in place.

**END OF SECTION 08 3100**



**SECTION 08 4313  
ALUMINUM-FRAMED STOREFRONTS**

**PART 1 GENERAL****1.01 SECTION INCLUDES**

- A. Aluminum-framed storefront, with vision glass.
- B. Aluminum entrance doors and frames.

**1.02 SUBMITTALS**

- A. Product Data: Provide component dimensions, describe components within assembly, anchorage and fasteners, glass and infill, internal drainage details.
- B. Shop Drawings: Indicate system dimensions, framed opening requirements and tolerances, affected related Work, expansion and contraction joint location and details, and field welding required.

**1.03 WARRANTY**

- A. Correct defective Work within a five year period after Date of Substantial Completion.

**PART 2 PRODUCTS****2.01 BASIS OF DESIGN -- FRAMING FOR MONOLITHIC GLAZING**

- A. Center-Set Style:
  - 1. Basis of Design: Kawneer North America; Trifab 400 Framing System: [www.kawneer.com](http://www.kawneer.com).

**2.02 BASIS OF DESIGN -- SWINGING DOORS**

- A. Medium Stile, Monolithic Glazing:
  - 1. Basis of Design: Kawneer North America; 350 Standard Entrances: [www.kawneer.com](http://www.kawneer.com).

**2.03 STOREFRONT**

- A. Aluminum-Framed Storefront: Factory fabricated, factory finished aluminum framing members with infill, and related flashings, anchorage and attachment devices.
  - 1. Glazing Rabbet: For 1/4 inch monolithic glazing.
  - 2. Finish: Superior performing organic coatings.
    - a. Factory finish all surfaces that will be exposed in completed assemblies.
    - b. Touch-up surfaces cut during fabrication so that no natural aluminum is visible in completed assemblies, including joint edges.
    - c. Coat concealed metal surfaces that will be in contact with cementitious materials or dissimilar metals with bituminous paint.
  - 3. Finish Color: As selected by Architect from manufacturer's standard line.
  - 4. Fabrication: Joints and corners flush, hairline, and weatherproof, accurately fitted and secured; prepared to receive anchors and hardware; fasteners and attachments concealed from view; reinforced as required for imposed loads.
  - 5. Construction: Eliminate noises caused by wind and thermal movement, prevent vibration harmonics, and prevent "stack effect" in internal spaces.
  - 6. System Internal Drainage: Drain to the exterior by means of a weep drainage network any water entering joints, condensation occurring in glazing channel, and migrating moisture occurring within system.

**2.04 COMPONENTS**

- A. Aluminum Framing Members: Tubular aluminum sections, drainage holes and internal weep drainage system.
  - 1. Glazing Stops: Flush.
- B. Swing Doors: Glazed aluminum.
  - 1. Thickness: 1-3/4 inches.

**2.05 MATERIALS**

- A. Extruded Aluminum: ASTM B221 (ASTM B221M).

- B. Fasteners: Stainless steel.

**2.06 FINISHES**

- A. Superior Performance Organic Coating System: AAMA 2605 two coat, thermally cured polyvinylidene fluoride system.
  - 1. Polyvinylidene fluoride (PVDF) multi-coat thermoplastic fluoropolymer coating system, including minimum 70 percent PVDF color topcoat and minimum total dry film thickness of 0.9 mil; color and gloss as indicated on drawings.

**2.07 HARDWARE**

- A. Door Hardware: As specified in Section 08 7100 - Door Hardware.

**PART 3 EXECUTION**

**3.01 INSTALLATION**

- A. Install wall system in accordance with manufacturer's instructions.
- B. Metal Protection: Where aluminum is in contact with dissimilar metals, protect against galvanic action with materials recommended by manufacturer or by installing nonconductive spacers.
- C. Attach to structure to permit sufficient adjustment to accommodate construction tolerances and other irregularities.
- D. Align assembly plumb and level, free of warp or twist. Maintain assembly dimensional tolerances, aligning with adjacent work.

**END OF SECTION 08 4313**

**SECTION 08 7100  
DOOR HARDWARE**

**PART 1 GENERAL****1.01 SECTION INCLUDES**

- A. Hardware for wood and aluminum doors.
- B. Electrically operated and controlled hardware.

**1.02 ADMINISTRATIVE REQUIREMENTS**

- A. Furnish templates for door and frame preparation to manufacturers and fabricators of products requiring internal reinforcement for door hardware.
- B. Convey Owner's keying requirements to manufacturers.

**1.03 SUBMITTALS**

- A. Product Data: Manufacturer's catalog literature for each type of hardware, marked to clearly show products to be furnished for this project.
- B. Hardware Schedule: Detailed listing of each item of hardware to be installed on each door. Use door numbering scheme as included in the Contract Documents. Identify electrically operated items and include power requirements.
- C. Maintenance Data: Include data on operating hardware, lubrication requirements, and inspection procedures related to preventative maintenance.
  - 1. Submit manufacturer's parts lists and templates.
- D. Keys: Deliver with identifying tags to Owner by security shipment direct from hardware supplier.

**1.04 WARRANTY**

- A. Provide five year warranty for door closers.

**PART 2 PRODUCTS****2.01 DOOR HARDWARE - GENERAL**

- A. Provide hardware specified or required to make doors fully functional, compliant with applicable codes, and secure to the extent indicated.
- B. Provide products that comply with the following:
  - 1. Applicable provisions of federal, state, and local codes.
  - 2. Hardware Preparation for Wood Doors with Wood or Steel Frames: BHMA A156.115W.
  - 3. Products Requiring Electrical Connection: Listed and classified by UL (DIR) as suitable for the purpose specified and indicated.
- C. Electrically Operated and/or Controlled Hardware: Provide all power supplies, power transfer hinges, relays, and interfaces required for proper operation; provide wiring between hardware and control components and to building power connection.
- D. Finishes: Provide door hardware of the same finish unless otherwise indicated.
  - 1. Finish: Satin stainless steel, 630 (US32D).
  - 2. Finish Definitions: BHMA A156.18.
  - 3. Exceptions:
    - a. Where base metal is specified to be different, provide finish that is an appearance equivalent according to BHMA A156.18.
    - b. Door Closer Covers and Arms: Color to be selected by Architect from manufacturer's standard colors.
    - c. Hardware for Aluminum Storefront Doors: Finished to match door, except hand contact surfaces to be satin stainless steel.

**2.02 LOCKS AND LATCHES**

- A. Locks: Provide a lock for every door, unless specifically indicated as not requiring locking.
  - 1. Trim: Provide lever handle or pull trim on outside of all locks unless specifically stated to have no outside trim.

- 2. Lock Cylinders: Provide key access on outside of all locks unless specifically stated to have no locking or no outside trim.
- B. Lock Cylinders: Manufacturer's standard tumbler type, six-pin standard core.
- C. Keying: Grand master keyed.
  - 1. Include construction keying.
- D. Latches: Provide a latch for every door that is not required to lock, unless specifically indicated "push/pull" or "not required to latch".

**2.03 HINGES**

- A. Hinges: Provide hinges on every swinging door.
  - 1. Provide five-knuckle full mortise butt hinges unless otherwise indicated.
  - 2. Provide ball-bearing hinges at all doors having closers.
  - 3. Provide non-removable pins on outswinging doors.
  - 4. Where electrified hardware is mounted in door leaf, provide power transfer hinges.

**2.04 PUSH/PULLS**

- A. Push/Pulls: Comply with BHMA A156.6.
  - 1. Provide push and pull on doors not specified to have lockset, latchset, exit device, or auxiliary lock.
  - 2. On solid doors, provide matching push plate and pull plate on opposite faces.

**2.05 MORTISE LOCKSETS**

- A. Locking Functions: As defined in BHMA A156.13, and as follows:
  - 1. Passage: F01.
  - 2. Privacy: F19, or F02 with retraction of deadbolt by use of inside lever/knob.
  - 3. Office: F04, key not required to lock, remains locked upon exit.
  - 4. Classroom: F05, key required to lock.
  - 5. Store Door: F14, deadbolt locked by key from both sides, not an emergency exit (must be unlocked during occupied hours).

**2.06 FLUSHBOLTS AND COORDINATORS**

- A. Flushbolts: Lever extension bolts in leading edge of door, one bolt into floor, one bolt into top of frame.
  - 1. Pairs of Swing Doors: At inactive leaves, provide flush bolts of type as required to comply with code.
  - 2. Floor Bolts: Provide dustproof strike except at metal thresholds.

**2.07 CLOSERS**

- A. Closers: Complying with BHMA A156.4.
  - 1. Provide a door closer on every corridor door.
  - 2. On pairs of swinging doors, if an overlapping astragal is present, provide coordinator to ensure the leaves close in proper order.
  - 3. At corridors, locate door-mounted closer on room side of door.

**2.08 STOPS AND HOLDERS**

- A. Stops: Complying with BHMA A156.8; provide a stop for every swinging door, unless otherwise indicated.
  - 1. Provide wall stops, unless otherwise indicated.
  - 2. If wall stops are not practical, due to configuration of room or furnishings, provide overhead stop.
  - 3. Stop is not required if positive stop feature is specified for door closer; positive stop feature of door closer is not an acceptable substitute for a stop unless specifically so stated.

**2.09 PROTECTION PLATES AND ARCHITECTURAL TRIM**

- A. Protection Plates:
  - 1. Kickplate: Provide on push side of every door with closer, except aluminum storefront doors.

**PART 3 EXECUTION**

**3.01 INSTALLATION**

- A. Install hardware in accordance with manufacturer's instructions and applicable codes.
- B. Use templates provided by hardware item manufacturer.
- C. Do not install surface mounted items until finishes applied to substrate are complete.

**3.02 ADJUSTING**

- A. Adjust hardware for smooth operation.

**END OF SECTION 08 7100**





## SECTION 08 8000

## GLAZING

## PART 1 GENERAL

## 1.01 SECTION INCLUDES

- A. Glazing units.
- B. Glazing compounds and accessories.

## 1.02 SUBMITTALS

- A. Product Data on Glazing Unit Glazing Types: Provide structural, physical and environmental characteristics, size limitations, special handling and installation requirements.
- B. Product Data on Glazing Compounds and Accessories: Provide chemical, functional, and environmental characteristics, limitations, special application requirements. Identify available colors.

## 1.03 QUALITY ASSURANCE

- A. Perform Work in accordance with GANA (GM) and GANA (SM) for glazing installation methods.

## PART 2 PRODUCTS

## 2.01 PERFORMANCE REQUIREMENTS

- A. Safety Glazing: Where safety glazing is indicated, provide glazing that complies with 16 CFR 1201, Category II.

## 2.02 GLASS MATERIALS

- A. Float Glass: Provide float glass based glazing unless noted otherwise.
  - 1. Heat-Strengthened and Fully Tempered Types: ASTM C1048, Kind HS and FT.
  - 2. Fully Tempered Safety Glass: Complies with ANSI Z97.1 and 16 CFR 1201 criteria.
  - 3. Thicknesses: As indicated; provide greater thickness as required for exterior glazing wind load design.

## 2.03 GLAZING UNITS

- A. Monolithic Interior Vision Glazing:
  - 1. Applications: Interior glazing unless otherwise indicated.
  - 2. Glass Type: Fully tempered float glass.
  - 3. Tint: Clear.
  - 4. Thickness: 1/4 inch, nominal.

## 2.04 ACCESSORIES

- A. Setting Blocks: Silicone, with 80 to 90 Shore A durometer hardness; ASTM C864 Option II. Length of 0.1 inch for each square foot of glazing or minimum 4 inch x width of glazing rabbet space minus 1/16 inch x height to suit glazing method and pane weight and area.
- B. Spacer Shims: Neoprene, 50 to 60 Shore A durometer hardness; ASTM C864 Option II. Minimum 3 inch long x one half the height of the glazing stop x thickness to suit application, self adhesive on one face.
- C. Glazing Tape, Back Bedding Mastic Type: Preformed, butyl-based, 100 percent solids compound with integral resilient spacer rod applicable to application indicated; 5 to 30 cured Shore A durometer hardness; coiled on release paper; black color.

## PART 3 EXECUTION

## 3.01 INSTALLATION - DRY GLAZING METHOD (TAPE AND TAPE)

- A. Cut glazing tape to length and set against permanent stops, projecting 1/16 inch above sight line.
- B. Place setting blocks at 1/4 points with edge block no more than 6 inch from corners.
- C. Rest glazing on setting blocks and push against tape for full contact at perimeter of pane or unit.

- D. Place glazing tape on free perimeter of glazing in same manner described above.
- E. Install removable stop without displacement of tape. Exert pressure on tape for full continuous contact.
- F. Carefully trim protruding tape with knife.

**END OF SECTION 08 8000**

**SECTION 09 2116.23  
GYPSUM BOARD SHAFT WALL ASSEMBLIES**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Gypsum board shaft wall assemblies.

**1.02 SUBMITTALS**

- A. Product Data: For each component of gypsum board shaft wall assembly.

**PART 2 PRODUCTS**

**2.01 PANEL PRODUCTS**

- A. Gypsum Shaftliner Board, Type X: ASTM C1396/C1396M; manufacturer's proprietary fire-resistive liner panels with paper faces.
- B. Gypsum Shaftliner Board, Moisture- and Mold-Resistant Type X: ASTM C1396/C1396M; manufacturer's proprietary fire-resistive liner panels with moisture- and mold-resistant core and surfaces.

**2.02 NON-LOAD-BEARING STEEL FRAMING**

- A. Steel Framing Members: Comply with ASTM C645 requirements for metal unless otherwise indicated.
- B. Firestop Tracks: Top runner manufactured to allow partition heads to expand and contract with movement of the structure while maintaining continuity of fire-resistance-rated assembly indicated; in thickness not less than indicated for studs and in width to accommodate depth of studs.

**2.03 AUXILIARY MATERIALS**

- A. General: Provide auxiliary materials that comply with manufacturer's written recommendations.

**PART 3 EXECUTION**

**3.01 INSTALLATION**

- A. Install supplementary framing in gypsum board shaft wall assemblies around openings and as required for blocking, bracing, and support of gravity and pullout loads of fixtures, equipment, services, heavy trim, furnishings, wall-mounted door stops, and similar items that cannot be supported directly by shaft wall assembly framing.

**END OF SECTION 09 2116.23**



**SECTION 09 2216  
NON-STRUCTURAL METAL FRAMING**

**PART 1 GENERAL****1.01 SECTION INCLUDES**

- A. Non-load-bearing steel framing systems for interior gypsum board assemblies.
- B. Suspension systems for interior gypsum ceilings and soffits.

**1.02 SUBMITTALS**

- A. Product Data: Provide data describing framing member materials and finish, product criteria, load charts, and limitations.
- B. Product Data: Provide manufacturer's data on partition head to structure connectors, showing compliance with requirements.
- C. Shop Drawings:
  - 1. Indicate prefabricated work, component details, stud layout, framed openings, anchorage to structure, acoustic details, type and location of fasteners, accessories, and items of other related work.
- D. Evaluation Reports: Submit evaluation reports certified under an independent third party inspection program administered by an agency accredited by IAS to ICC-ES AC98, IAS Accreditation Criteria for Inspection Agencies.

**PART 2 PRODUCTS****2.01 PERFORMANCE REQUIREMENTS**

- A. Comparative Steel Thicknesses:

Steel Sheet Thickness for Studs and Runners					
Minimum Steel Base Metal (Uncoated) Thickness					
	Steel		High Strength Steel		
Gage	inch	mil	Designation	inch	mil
20	0.033	33	ProStud 33MIL	0.0329	33
20	0.030	30	ProStud 30MIL	0.0296	30
20	0.030	30	ProStud 20*	0.0190	19
25	0.018	18	ProStud 25**	0.0150	15

Yield Strength unless otherwise noted: 33 ksi

\* Yield Strength: 65 ksi

\*\* Yield Strength: 50 ksi

ProStud data from ClarkDietrich Building Systems.

**2.02 FRAMING SYSTEMS**

- A. Framing Members, General: Comply with ASTM C754 for conditions indicated.
- B. Studs and Runners: ASTM C645. Use either steel studs and runners or high strength steel studs and runners.
  - 1. Standard Steel Studs and Runners:
    - a. Minimum Base-Metal Thickness: 0.030 inch.
    - b. Depth: 3-5/8 inches, unless indicated otherwise on Drawings.
  - 2. High Strength Steel Studs and Runners:
    - a. Minimum Base-Metal Thickness: 0.019 inch.
    - b. Depth: 3-5/8 inches, unless indicated otherwise on Drawings.
- C. Slip-Type Head Joints: Where indicated, provide one of the following:
  - 1. Single Long-Leg Runner System: ASTM C645 top runner with 2 inch deep flanges in thickness not less than indicated for studs, installed with studs friction fit into top runner and with continuous bridging located within 12 inches of the top of studs to provide lateral bracing.

2. Double-Runner System: ASTM C645 top runners, inside runner with 2 inch deep flanges in thickness not less than indicated for studs and fastened to studs, and outer runner sized to friction fit inside runner.
3. Deflection Track: Steel sheet top runner manufactured to prevent cracking of finishes applied to interior partition framing resulting from deflection of structure above; in thickness not less than indicated for studs and in width to accommodate depth of studs.
  - a. Products:
    - 1) Cemco; CST Slotted Deflection Track: [www.cemcosteel.com](http://www.cemcosteel.com)
    - 2) ClarkDietrich Building Systems; MaxTRAK Slotted Deflection Track: [www.clarkdietrich.com](http://www.clarkdietrich.com)
- D. Header/Sill System: Preformed, pre-engineered header/sill, minimum 0.033 inch, galvanized sheet steel for use at openings in metal stud wall systems.
  1. Products:
    - a. Cemco; Pro X Header: [www.cemcosteel.com](http://www.cemcosteel.com).
- E. Bridging / Bracing Bar: Engineered, pre-notched, 0.033 inch, galvanized sheet steel spacer bar for interior metal stud walls.
  1. Products:
    - a. ClarkDietrich Building Systems; Spazzer Bar: [www.clarkdietrich.com](http://www.clarkdietrich.com).
- F. Hat-Shaped, Rigid Furring Channels: ASTM C645.
- G. Cold-Rolled Furring Channels: 0.053 inch uncoated-steel thickness, with minimum 1/2 inch wide flanges.

### 2.03 SUSPENSION SYSTEMS

- A. Tie Wire: ASTM A641/A641M, Class 1 zinc coating, soft temper, 0.062 inch diameter wire, or double strand of 0.048 inch diameter wire.
- B. Wire Hangers: ASTM A641/A641M, Class 1 zinc coating, soft temper, 0.016 inch in diameter.
- C. Flat Hangers: Steel sheet, in size indicated on Drawings.
- D. Carrying Channels: Cold-rolled, commercial-steel sheet with a base-metal thickness of 0.053 inch and minimum 1/2 inch wide flanges.
- E. Furring Channels (Furring Members):
  1. Cold-Rolled Channels: 0.053 inch uncoated-steel thickness, with minimum 1/2 inch wide flanges, 3/4 inch deep.
  2. Steel Studs and Runners: ASTM C645
    - a. Minimum Base-Metal Thickness: 0.033 inch.
  3. High Strength Steel Studs and Runners: ASTM C645
    - a. Minimum Base-Metal Thickness: 0.023 inch.
  4. Hat-Shaped, Rigid Furring Channels: ASTM C645, 7/8 inch deep.
    - a. Minimum Base-Metal Thickness: 0.033 inch.

## PART 3 EXECUTION

### 3.01 INSTALLATION, GENERAL

- A. Installation Standard: ASTM C754.

### 3.02 INSTALLING FRAMED ASSEMBLIES

- A. Install framing system components according to spacings indicated, but not greater than spacings required by referenced installation standards for assembly types.
- B. Install tracks (runners) at floors and overhead supports. Extend framing full height to structural supports or substrates above suspended ceilings except where partitions are indicated to terminate at suspended ceilings. Continue framing around ducts penetrating partitions above ceiling.

### 3.03 INSTALLING SUSPENSION SYSTEMS

- A. Install suspension system components according to spacings indicated, but not greater than spacings required by referenced installation standards for assembly types.

1. Hangers: 48 inches o.c.
2. Carrying Channels (Main Runners): 48 inches o.c.
3. Furring Channels (Furring Members): 16 inches o.c.

**END OF SECTION 09 2216**





**SECTION 09 2813  
CEMENTITIOUS BACKER BOARDS**

**PART 1 GENERAL****1.01 SECTION INCLUDES**

- A. Cementitious backer board for installation with gypsum board assemblies.

**1.02 SUBMITTALS**

- A. Product Data: Manufacturer's specifications and installation instructions for each cementitious backer board component, including other data as required to show compliance with these Specifications.

**PART 2 PRODUCTS****2.01 CEMENTITIOUS BACKER BOARDS**

- A. Cementitious Backer Boards: ANSI A118.9 and ASTM C1288 or ASTM C1325, with manufacturer's standard edges.
  - 1. Products:
    - a. C-Cure; C-Cure Board 990: [www.c-cure.com](http://www.c-cure.com).
    - b. Custom Building Products; Wonderboard: [www.custombuildingproducts.com](http://www.custombuildingproducts.com).
    - c. FinPan, Inc.; Util-A-Crete Concrete Backer Board or ProTec: [www.finpan.com](http://www.finpan.com).
    - d. National Gypsum Company, PermaBase Cement Board: [www.nationalgypsum.com](http://www.nationalgypsum.com).
    - e. USG Corporation; DUROCK Cement Board: [www.usg.com](http://www.usg.com).
  - 2. Thickness: 5/8 inch.

**2.02 JOINT TREATMENT MATERIALS**

- A. Joint Tape:
  - 1. Alkali-resistant glass mesh tape as recommended by cementitious backing board manufacturer.
- B. Joint Compound for Cementitious Backer Boards:
  - 1. Latex-portland cement mortar per ANSI A118.1 or ANSI A118.4.

**2.03 AUXILIARY MATERIALS**

- A. Steel Drill Screws: No. 8 drill point, corrosion resistant, wafer head screws per ASTM C1002, unless otherwise indicated.

**PART 3 EXECUTION****3.01 APPLYING CEMENTITIOUS BACKER BOARDS**

- A. Cementitious Backer Units: ANSI A108.11.
- B. Install cementitious backing boards in manner to minimize end-butt joints or avoid them entirely where possible.
- C. Locate both edge or end joints over supports.
- D. Place fasteners in field of panels first, working out toward edges. Space fasteners maximum 8 inches o.c.

**3.02 FINISHING CEMENTITIOUS BACKING BOARD**

- A. Apply joint treatment at cementitious backer board joints (both directions); flanges of penetrations; fastener heads, surface defects and elsewhere as required to prepare work for applied finish materials in conformance with manufacturers recommendations.

**END OF SECTION 09 2813**



**SECTION 09 2900  
GYPSUM BOARD**

**PART 1 GENERAL****1.01 SECTION INCLUDES**

- A. Interior gypsum board.

**1.02 SUBMITTALS**

- A. Product Data: For each type of product.

**PART 2 PRODUCTS****2.01 INTERIOR GYPSUM BOARD**

- A. Manufacturers:
  1. CertainTeed Corp.: [www.certainteed.com](http://www.certainteed.com).
  2. Continental Building Products: [www.continental-bp.com](http://www.continental-bp.com).
  3. Georgia-Pacific Gypsum LLC: [www.gp.com](http://www.gp.com).
  4. National Gypsum Company: [www.nationalgypsum.com](http://www.nationalgypsum.com).
  5. USG Corporation: [www.usg.com](http://www.usg.com).
- B. Gypsum Board, Type X: ASTM C1396/C1396M.
  1. Thickness: 5/8 inch.
  2. Long Edges: Tapered.
- C. Impact Resistant Gypsum Wallboard:
  1. Application: High-traffic areas indicated.
  2. Hard Body Impact: Level 2, minimum, when tested ASTM C1629/C1629M.
  3. Mold Resistance: Score of 10, when tested per ASTM D3273.
  4. Thickness: 5/8 inch.
  5. Edges: Tapered.

**2.02 TRIM ACCESSORIES**

- A. Interior Trim: ASTM C1047.
  1. Material: Galvanized or aluminum coated sheet steel.

**2.03 PARTITION CLOSURES**

- A. Adjustable partition closures: Pre-assembled, STC rating of 50 minimum, except where indicated higher, with finish to match mullion as determined by Architect.
- B. Manufacturer:
  1. Mull-it-Over Products; Mullion Trim Cap: [www.mullitoverproducts.com](http://www.mullitoverproducts.com)

**2.04 JOINT TREATMENT MATERIALS**

- A. Comply with ASTM C475/C475M.
- B. Joint Tape:
  1. Interior Gypsum Board: Paper.
- C. Joint Compound for Interior Gypsum Board: For each coat use formulation that is compatible with other compounds applied on previous or for successive coats.

**PART 3 EXECUTION****3.01 APPLYING AND FINISHING PANELS, GENERAL**

- A. Comply with ASTM C840.

**3.02 APPLYING INTERIOR GYPSUM BOARD**

- A. Install interior gypsum board in the following locations:
  1. Wallboard Type: As indicated on Drawings.
- B. Single-Layer Application:
  1. On ceilings, apply gypsum panels before wall/partition board application to greatest extent possible and at right angles to framing unless otherwise indicated.

2. On partitions/walls, apply gypsum panels horizontally (perpendicular to framing) unless otherwise indicated and minimize end joints.

**3.03 FINISHING GYPSUM BOARD**

- A. Gypsum Board Finish Levels: Finish panels to levels indicated below and according to ASTM C840:
  1. Level 1: Ceiling plenum areas, concealed areas, and where indicated.
  2. Level 3: Where indicated on Drawings.
  3. Level 4: At surfaces exposed to view unless otherwise indicated.
  4. Level 5: Where indicated on Drawings.

**END OF SECTION 09 2900**

## SECTION 09 3000

## TILING

**PART 1 GENERAL****1.01 SECTION INCLUDES**

- A. Tile for floor applications.
- B. Tile for wall applications.
- C. Non-ceramic trim.

**1.02 SUBMITTALS**

- A. Product Data: Provide manufacturers' data sheets on tile, mortar, grout, and accessories. Include instructions for using grouts and adhesives.
- B. Shop Drawings: Indicate tile layout, patterns, color arrangement, perimeter conditions, junctions with dissimilar materials, control and expansion joints, thresholds, ceramic accessories, and setting details.
- C. Samples: Mount tile and apply grout on two plywood panels, minimum 18 by 18 inches in size illustrating pattern, color variations, and grout joint size variations.

**1.03 FIELD CONDITIONS**

- A. Do not install solvent-based products in an unventilated environment.
- B. Maintain ambient and substrate temperature of 50 degrees F during installation of mortar materials.

**PART 2 PRODUCTS****2.01 TILE**

- A. Manufacturers: All products of each type by the same manufacturer.
- B. Glazed Wall Tile: ANSI A137.1, standard grade.
  - 1. Size: 4-1/4 by 4-1/4 inch, nominal.
  - 2. Surface Finish: Matte glaze.
  - 3. Color(s): To be selected by Architect from manufacturer's standard range.
  - 4. Trim Units: Matching bullnose, cove, and base shapes in sizes coordinated with field tile.
- C. Porcelain Floor Tile: ANSI A137.1, standard grade.
  - 1. Size: To be selected by Architect.
  - 2. Surface Finish: Non-slip.
  - 3. Color(s): To be selected by Architect from manufacturer's standard range.
  - 4. Trim Units: Matching cove base shapes in sizes coordinated with field tile.

**2.02 TRIM AND ACCESSORIES**

- A. Non-Ceramic Trim: Brushed stainless steel, style and dimensions to suit application, for setting using tile mortar or adhesive.

**2.03 SETTING MATERIALS**

- A. Latex-Portland Cement Mortar Bond Coat: ANSI A118.4 or ANSI A118.15.

**2.04 GROUTS**

- A. Epoxy Grout: ANSI A118.3 chemical resistant and water-cleanable epoxy grout.

**2.05 MAINTENANCE MATERIALS**

- A. Grout Release: Temporary, water-soluble pre-grout coating.

**2.06 ACCESSORY MATERIALS**

- A. Waterproofing Membrane: Specifically designed for bonding to cementitious substrate under thick mortar bed or thin-set tile; complying with ANSI A118.10.
  - 1. Fluid or Trowel Applied Type:
    - a. Material: Synthetic rubber.
    - b. Thickness: 25 mils, minimum, dry film thickness.

**PART 3 EXECUTION**

**3.01 INSTALLATION - GENERAL**

- A. Install tile and grout in accordance with applicable requirements of ANSI A108.1a through ANSI A108.13, manufacturer's instructions, and TCNA (HB) recommendations.
- B. Lay tile to pattern indicated. Do not interrupt tile pattern through openings. Extend tile work into recesses and under or behind equipment and fixtures to form complete covering without interruptions unless otherwise indicated

**3.02 INSTALLATION - FLOORS - THIN-SET METHODS**

- A. Over interior concrete substrates, install in accordance with TCNA (HB) Method F113, dry-set or latex-Portland cement bond coat, with epoxy grout.
  - 1. Use waterproofing membrane under all floor tile.
  - 2. Where epoxy grout is indicated, but not epoxy bond coat, install in accordance with TCNA (HB) Method F115.

**3.03 INSTALLATION - WALL TILE**

- A. Over gypsum wallboard on wood or metal studs install in accordance with TCNA (HB) Method W243, thin-set with dry-set or latex-Portland cement bond coat, unless otherwise indicated.

**END OF SECTION 09 3000**

**SECTION 09 5100  
SUSPENDED ACOUSTICAL CEILINGS**

**PART 1 GENERAL****1.01 SECTION INCLUDES**

- A. Suspended metal grid ceiling system.
- B. Acoustical units.

**1.02 SUBMITTALS**

- A. Product Data: Provide data on acoustical units and suspension system components.
- B. Shop Drawings: Indicate grid layout and related dimensioning.
- C. Samples: Submit two samples 12 by 12 inch in size illustrating material, edges, and finish of acoustical units.
- D. Samples: Submit two samples each, 12 inches long, of suspension system main runner.

**1.03 FIELD CONDITIONS**

- A. Maintain uniform temperature of minimum 60 degrees F, and maximum humidity of 40 percent prior to, during, and after acoustical unit installation.

**PART 2 PRODUCTS****2.01 ACOUSTICAL UNITS**

- A. Acoustical Units - General: ASTM E1264, Class A.
- B. Glass Fiber Acoustical Panels Type APC1: Transparent membrane faced glass fiber, ASTM E1264 Type XII, Form 2, Pattern E, with the following characteristics:
  - 1. Basis of Design: Armstrong World Industries, Inc.; Optima HealthZone: [www.armstrong.com](http://www.armstrong.com).
  - 2. Size: 24 by 48 inches.
  - 3. Thickness: 1 inches.
  - 4. Edges: Reveal.
  - 5. Surface Color: White.
  - 6. Suspension System: Exposed grid Type 1.
- C. Glass Fiber Acoustical Panels Type APC2: Transparent membrane faced glass fiber, ASTM E1264 Type XII, Form 2, Pattern E, with the following characteristics:
  - 1. Basis of Design: Armstrong World Industries, Inc.; Optima HealthZone: [www.armstrong.com](http://www.armstrong.com).
  - 2. Size: 12 by 48 inches.
  - 3. Thickness: 1 inches.
  - 4. Edges: Reveal.
  - 5. Surface Color: White.
  - 6. Suspension System: Exposed grid Type 2.
- D. Glass Fiber Acoustical Panels Type APC3: Transparent membrane faced glass fiber, ASTM E1264 Type XII, Form 2, Pattern E, with the following characteristics:
  - 1. Basis of Design: Armstrong World Industries, Inc.; Optima: [www.armstrong.com](http://www.armstrong.com).
  - 2. Size: 12 by 48 inches.
  - 3. Thickness: 1 inches.
  - 4. Edges: Reveal.
  - 5. Surface Color: White.
  - 6. Suspension System: Exposed grid Type 3.
- E. Glass Fiber Acoustical Panel Ceiling Clouds: Transparent membrane faced glass fiber, ASTM E1264 Type XII, Form 2, Pattern E, with the following characteristics:
  - 1. Basis of Design: Armstrong World Industries, Inc.; Optima: [www.armstrong.com](http://www.armstrong.com).
  - 2. Thickness: 1 inches.
  - 3. Edges: Square.
  - 4. Surface Color: White.

5. Suspension System: Exposed grid Type 1.
6. Edge Trim: Armstrong World Industries, Inc.; 4" Axiom - Vector: www.armstrong.com; color white.

## 2.02 SUSPENSION SYSTEM(S)

- A. Suspension Systems - General: Complying with ASTM C635/C635M; die cut and interlocking components, with stabilizer bars, clips, splices, perimeter moldings, and hold down clips as required.
- B. Exposed Steel Suspension System Type 1: Formed steel, commercial quality cold rolled; intermediate-duty.
  1. Basis of Design: Armstrong World Industries, Inc.; Prelude XL: www.armstrong.com.
  2. Profile: Tee; 15/16 inch wide face.
  3. Construction: Double web.
  4. Finish: White painted.
- C. Exposed Steel Suspension System Type 2: Formed steel, commercial quality cold rolled; intermediate-duty.
  1. Basis of Design: Armstrong World Industries, Inc.; TechZone with SuprafineXL: www.armstrong.com.
  2. Profile: Tee; 9/16 inch wide face.
  3. Construction: Double web.
  4. Finish: White painted.
- D. Exposed Steel Suspension System Type 3: Formed steel, commercial quality cold rolled; intermediate-duty.
  1. Basis of Design: Armstrong World Industries, Inc.; SuprafineXL: www.armstrong.com.
  2. Profile: Tee; 9/16 inch wide face.
  3. Construction: Double web.
  4. Finish: White painted.

## 2.03 ACCESSORIES

- A. Support Channels and Hangers: Galvanized steel; size and type to suit application, seismic requirements, and ceiling system flatness requirement specified.
- B. Perimeter Moldings: Same material and finish as grid.
- C. Acoustical Sealant For Perimeter Moldings: Non-hardening, non-skinning, for use in conjunction with suspended ceiling system.

## PART 3 EXECUTION

### 3.01 INSTALLATION - SUSPENSION SYSTEM

- A. Install suspension system in accordance with ASTM C636/C636M, ASTM E580/E580M, and manufacturer's instructions and as supplemented in this section.
- B. Lay out system to a balanced grid design with edge units no less than 50 percent of acoustical unit size.

### 3.02 INSTALLATION - ACOUSTICAL UNITS

- A. Install acoustical units in accordance with manufacturer's instructions.
- B. Fit acoustical units in place, free from damaged edges or other defects detrimental to appearance and function.

**END OF SECTION 09 5100**



**SECTION 09 6513  
RESILIENT BASE AND ACCESSORIES**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Resilient base.
- B. Resilient molding accessories.

**1.02 SUBMITTALS**

- A. Product Data: Provide data on specified products, describing physical and performance characteristics; including sizes, patterns and colors available; and installation instructions.
- B. Shop Drawings: Indicate seaming plan.
- C. Verification Samples: Submit two samples, 6 inches long illustrating color and pattern for each resilient base and accessory product specified.

**1.03 FIELD CONDITIONS**

- A. Maintain temperature in storage area between 55 degrees F and 90 degrees F.

**PART 2 PRODUCTS**

**2.01 RESILIENT BASE**

- A. Resilient Base: ASTM F1861, Type TS rubber, vulcanized thermoset; top set Style A, Straight, and Style B, Cove, and as follows:
  - 1. Height: 4 inch.
  - 2. Thickness: 0.125 inch thick.
  - 3. Finish: Satin.
  - 4. Length: Roll.
  - 5. Colors: As selected by Architect from manufacturer's full color range

**2.02 MOLDING ACCESSORIES**

- A. Moldings, Transition and Edge Strips: Same material as flooring.
  - 1. Nosings for carpet.
  - 2. Reducer strip for resilient flooring.
  - 3. Transition strips.

**PART 3 EXECUTION**

**3.01 RESILIENT BASE**

- A. Comply with manufacturer's instructions for installing resilient base.
- B. Fit joints tightly and make vertical. Maintain minimum dimension of 18 inches between joints.
- C. At external corners, use premolded units. At exposed ends, use premolded units.

**3.02 MOLDING ACCESSORY INSTALLATION**

- A. Comply with manufacturer's written instructions for installing resilient accessories.

**END OF SECTION 09 6513**



**SECTION 09 6516.23  
VINYL SHEET FLOORING**

**PART 1 GENERAL****1.01 SECTION INCLUDES**

- A. Vinyl sheet flooring.

**1.02 SUBMITTALS**

- A. Product Data: For each type of product.
- B. Shop Drawings: For each type of flooring. Include flooring layouts, locations of seams, edges, columns, doorways, enclosing partitions, built-in furniture, cabinets, and cutouts.
- C. Samples: For each exposed product and for each color and pattern specified in manufacturer's standard size, but not less than 6 by 9 inch sections.

**PART 2 PRODUCTS****2.01 UNBACKED VINYL SHEET FLOORING**

- A. Basis-of-Design: Armstrong Flooring, Inc.; Medintech: [www.armstrong.com](http://www.armstrong.com). Provide indicated product, or comparable product by the following:
  - 1. Forbo Industries, Inc.: [www.forbo.us](http://www.forbo.us).
  - 2. Gerflor: [www.gerflorusa.com](http://www.gerflorusa.com).
  - 3. Johnsonite; A Tarkett Company: [www.johnsonite.com](http://www.johnsonite.com).
  - 4. Mannington Mills, Inc.: [www.mannington.com](http://www.mannington.com).
  - 5. Shaw Industries Group, a Berkshire Hathaway Company: [www.shawfloors.com](http://www.shawfloors.com).
  - 6. Polyflor, Ltd., Distributed by Gerbert Limited: [www.polyflor.com](http://www.polyflor.com).
- B. Seams: Heat welded.
- C. Total Thickness: 0.080 inch.
- D. Seamless-Installation Method: Heat welded.
- E. Integral coved base with cap strip.

**PART 3 EXECUTION****3.01 EXAMINATION**

- A. Concrete Substrates: Test per ASTM F710.
  - 1. Verify that substrates are dry and free of curing compounds, sealers, and hardeners.
  - 2. Remove substrate coatings and other substances that are incompatible with flooring adhesives and that contain soap, wax, oil, or silicone, using mechanical methods recommended by vinyl sheet flooring manufacturer. Do not use solvents.
  - 3. Alkalinity and Adhesion Testing: Perform tests recommended by vinyl sheet flooring manufacturer. Proceed with installation only after substrate alkalinity falls within range on pH scale recommended by manufacturer in writing, but not less than 6 or more than 9 pH.
  - 4. Moisture Testing: Proceed with installation only after substrates pass testing according to floor tile manufacturer's written recommendations, but not less stringent than the following:
    - a. Perform anhydrous calcium chloride test per ASTM F1869. Proceed with installation only after substrates have maximum moisture-vapor-emission rate in 24 hours as recommended by flooring manufacturer
    - b. Perform relative humidity test using in situ probes per ASTM F2170. Proceed with installation only after substrates have a maximum percent relative humidity level as recommended by the flooring manufacturer.
    - c. Provide one test for every 1000 square feet of floor slab.

**3.02 VINYL SHEET FLOORING INSTALLATION**

- A. Unroll resilient sheet flooring and allow it to stabilize before cutting and fitting.
- B. Lay out vinyl resilient sheet flooring as follows:
  - 1. Maintain uniformity of flooring direction.

2. Minimize number of seams; place seams in inconspicuous and low-traffic areas, at least 6 inches away from parallel joints in flooring substrates.
  3. Match edges of flooring for color shading at seams.
  4. Avoid cross seams.
- C. Scribe and cut sheet flooring to butt neatly and tightly to vertical surfaces, permanent fixtures, and built-in furniture including cabinets, pipes, outlets, and door frames.
- D. Extend sheet flooring into toe spaces, door reveals, closets, and similar openings.
- E. Seamless Installation:
1. Heat-Welded Seams: Comply with ASTM F1516. Rout joints and heat weld with welding bead to permanently fuse sections into a seamless flooring. Prepare, weld, and finish seams to produce surfaces flush with adjoining flooring surfaces.
- F. Integral-Flash-Cove Base: Cove flooring 6 inches up vertical surfaces. Support flooring at horizontal and vertical junction with cove strip. Butt at top against cap strip.

**END OF SECTION 09 6516.23**

SECTION 09 6813

TILE CARPETING

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Carpet tile, fully adhered.

**1.02 SUBMITTALS**

- A. Product Data: Provide data on specified products, describing physical and performance characteristics; sizes, patterns, colors available, and method of installation.
- B. Shop Drawings: Indicate layout of joints.
  - 1. Include carpet type, color, and dye lot.
  - 2. Include pattern type, location, and direction.
- C. Samples: Submit two carpet tiles illustrating color and pattern design for each carpet color selected.

**PART 2 PRODUCTS**

**2.01 MATERIALS**

- A. Tile Carpeting: Fusion bonded or tufted as selected by Architect, manufactured in one color dye lot.
  - 1. Tile Size: 18 by 18 inch, nominal.
  - 2. Color: To be selected by Architect.
  - 3. Pattern: To be selected by Architect.
  - 4. Critical Radiant Flux: Minimum of 0.22 watts/sq cm, when tested in accordance with ASTM E648 or NFPA 253.
  - 5. Surface Flammability Ignition: Pass ASTM D2859 (the "pill test").
  - 6. VOC Content: Provide CRI Green Label Plus certified product; in lieu of labeling, independent test report showing compliance is acceptable.
  - 7. Backing Material: Polypropylene.

**2.02 ACCESSORIES**

- A. Subfloor Filler: White premix latex; type recommended by flooring material manufacturer.
- B. Adhesives: Acceptable to carpet tile manufacturer, compatible with materials being adhered; maximum VOC of 50 g/L; CRI Green Label certified; in lieu of labeled product, independent test report showing compliance is acceptable.

**PART 3 EXECUTION**

**3.01 INSTALLATION**

- A. Blend carpet from different cartons to ensure minimal variation in color match.
- B. Cut carpet tile clean. Fit carpet tight to intersection with vertical surfaces without gaps.
- C. Lay carpet tile in square pattern, with pile direction parallel to next unit, set parallel to building lines.

**END OF SECTION 09 6813**



**SECTION 09 9123  
INTERIOR PAINTING**

**PART 1 GENERAL****1.01 SECTION INCLUDES**

- A. Surface preparation and the application of paint systems on interior substrates.

**1.02 SUBMITTALS**

- A. Product Data: For each type of product. Include preparation requirements and application instructions.
- B. Certification: By manufacturer that all paints and coatings comply with VOC limits specified.

**PART 2 PRODUCTS****2.01 MANUFACTURERS**

- A. Benjamin Moore & Co. (Moore): www.benjaminmoore.com.
- B. PPG Paints (PPG): www.ppgpaints.com.
- C. Sherwin-Williams Company (The) (SW): www.sherwin-williams.com.

**2.02 PAINT, GENERAL**

- A. VOC Content : For field applications that are inside the weatherproofing system, paints and coatings shall comply with VOC content limits of authorities having jurisdiction and the following VOC content limits:
- B. Colors: As selected by Architect from manufacturer's full range.
- C. Finish Sheen Schedule:
  - 1. Provide the following finish paint sheens, unless indicated otherwise.
    - a. Gypsum board wall surfaces- general: Eggshell/satin.
    - b. Gypsum board wall surfaces- toilet, locker, Anatomy, Prosection, and similar Semi-gloss.
    - c. Gypsum board ceiling surfaces: Flat or satin.
    - d. Hollow Metal Doors and Frames: Semi-gloss.
    - e. Mechanical/Electrical Equipment and panel doors: Semi-gloss.

**PART 3 EXECUTION****3.01 PREPARATION**

- A. Comply with manufacturer's written instructions and recommendations applicable to substrates indicated.
- B. Remove hardware, covers, plates, and similar items already in place that are removable and are not to be painted. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and painting.
- C. Clean substrates of substances that could impair bond of paints, including dust, dirt, oil, grease, and incompatible paints and encapsulants.

**3.02 APPLICATION**

- A. Apply paints according to manufacturer's written instructions and to recommendations in "MPI Manual."

**3.03 INTERIOR PAINTING SCHEDULE**

- A. Steel Substrates:
  - 1. Semi-Gloss, Acrylic Enamel Finish: Two finish coats over a prime coat.
    - a. Prime Coat: Quick-drying, rust inhibitive, acrylic latex based primer, as recommended by manufacturer, applied at spreading rate to achieve a total dry film thickness not less than 1.5 mils.
      - 1) Moore: P04 Super Spec HP Acrylic Metal Primer.
      - 2) PPG: 90-912 Pitt-Tech Plus Int/Ext DTM Industrial Primer.
      - 3) SW: Pro-Cryl Universal Primer B66-310 Series.

- b. First and Second Coats: Low odor, semi-gloss, acrylic latex interior enamel applied at spreading recommended by manufacturer to achieve a total dry film thickness not less than 1.4 mils.
    - 1) Moore: N539 Ultra Spec 500 Interior Zero VOC Semi-Gloss Finish.
    - 2) PPG: 6-4510XI Speed Hide Zero VOC Semi-Gloss Interior Latex.
    - 3) SW: ProMar 200 Zero VOC Interior Latex Semi-Gloss B31-2600 Series.
- B. Galvanized-Metal Substrates:
- 1. Semi-Gloss, Acrylic Enamel Finish: Two finish coats over a galvanized metal primer.
    - a. Prime Coat: Galvanized metal primer, as recommended by manufacturer, applied at spreading rate to achieve a total dry film thickness not less than 3.0 mils.
      - 1) Moore: P04 Super Spec HP Acrylic Metal Primer.
      - 2) PPG: 90-912 Pitt-Tech Plus Int/Ext DTM Industrial Primer.
      - 3) SW: Pro-Cryl Universal Primer B66-310 Series.
    - b. First and Second Coats: Low odor, semi-gloss, acrylic latex interior enamel applied at spreading recommended by manufacturer to achieve a total dry film thickness not less than 1.4 mils.
      - 1) Moore: N539 Ultra Spec 500 Interior Zero VOC Semi-Gloss Finish.
      - 2) PPG: 6-4510XI Speed Hide Zero VOC Semi-Gloss Interior Latex.
      - 3) SW: ProMar 200 Zero VOC Interior Latex Semi-Gloss B31-2600 Series.
- C. Gypsum Board Substrates:
- 1. Flat, Acrylic Finish: 2 finish coats over a primer.
    - a. Primer: Latex-based, interior primer applied at spreading rate recommended by manufacturer to achieve a total dry film thickness not less than 1.2 mils.
      - 1) Moore: N534 Ultra Spec 500 Interior Zero VOC Latex Primer.
      - 2) PPG: 6-4900XI Speed Hide Zero VOC Interior Latex Primer.
      - 3) SW: ProMar 200 Zero Interior Latex Primer B28W8200.
    - b. First and Second Coats: Flat acrylic-latex, interior enamel applied at spreading rate recommended by manufacturer to achieve a total dry film thickness not less than 2.5 mils.
      - 1) Moore: N535 Ultra Spec 500 Interior Zero VOC Flat Finish.
      - 2) PPG: 6-4110XI Speed Hide Zero VOC Flat Interior Latex.
      - 3) SW: ProMar 200 Zero Interior Latex Flat B31-2600 Series.
  - 2. Eggshell, Acrylic-Enamel Finish: 2 finish coats over a primer.
    - a. Primer: Latex-based, interior primer applied at spreading rate recommended by manufacturer to achieve a total dry film thickness not less than 1.2 mils.
      - 1) Moore: N534 Ultra Spec 500 Interior Zero VOC Latex Primer.
      - 2) PPG: 6-4900XI Speed Hide Zero VOC Interior Latex Primer.
      - 3) SW: ProMar 200 Zero Interior Latex Primer B28W8200.
    - b. First and Second Coats: Low-luster eggshell, acrylic-latex, interior enamel applied at spreading rate recommended by manufacturer to achieve a total dry film thickness not less than 2.8 mils.
      - 1) Moore: N538 Ultra Spec 500 Interior Zero VOC Eggshell Finish.
      - 2) PPG: 6-4310XI Speed Hide Zero VOC Eggshell Int. Latex.
      - 3) SW: ProMar 200 Zero Interior Latex Eg-Shel B20-2600 Series.
  - 3. Semi-Gloss, Acrylic Epoxy Coating System: Provide 2 finish coats over prime/seal coat with total dry film thickness not less than 4.0 mils.
    - a. Primer/Sealer: Latex-based, interior primer applied at spreading rate recommended by manufacturer to achieve a total dry film thickness not less than 1.2 mils.
      - 1) Moore: N534 Ultra Spec 500 Interior Zero VOC Latex Primer.
      - 2) PPG: 6-4900XI Speed Hide Zero VOC Interior Latex Primer.
      - 3) SW: ProMar 200 Zero Interior Latex Primer B28W8200.
    - b. First and Second Finish Coats: High Performance Acrylic Epoxy Coating.
      - 1) Moore: Corotech Pre-Catalyzed Waterborne Epoxy V341 Semi-Gloss.
      - 2) PPG: 16-510 Pitt Glaze WB1 Pre Catalyzed Waterborne Semi Gloss Epoxy



- 3) SW: Zero VOC Waterborne Catalyzed Epoxy B73-300 Series.  
**END OF SECTION 09 9123**



**SECTION 10 1101  
VISUAL DISPLAY BOARDS**

**PART 1 GENERAL****1.01 SECTION INCLUDES**

- A. Markerboards.

**1.02 SUBMITTALS**

- A. Product Data: Provide manufacturer's data on markerboard and accessories.
- B. Shop Drawings: Indicate wall elevations, dimensions, joint locations, special anchor details.
- C. Samples: Submit two samples 2 by 2 inch in size illustrating materials and finish, color and texture of markerboard.

**1.03 WARRANTY**

- A. Provide five year warranty for markerboard to include warranty against discoloration due to cleaning, crazing or cracking, and staining.

**PART 2 PRODUCTS****2.01 VISUAL DISPLAY BOARDS**

- A. Glass Markerboards
  - 1. Glass Markerboard: 1/4 inch thick, low iron, laminated glass with flat polished, beveled edges. Include pen rail.
  - 2. Basis-of-Design: Peter Pepper Products, Inc.; Model GB Glass Writing Surface with Model 5792 Pen Rail: [www.peterpepper.com](http://www.peterpepper.com). Provide specified product or comparable product.
  - 3. Interlayer Color: White
  - 4. Corners: Radiused.
  - 5. Sizes: As indicated on Drawings.
  - 6. Mounting: Aluminum disc concealed fasteners.
- B. Magnetic Glass Markerboards
  - 1. Glass Markerboards: 6-mm tempered, low-iron glass markerboard, with smooth polished edge and eased corners; color coated on back surface; magnetic back surface.
    - a. Basis-of-Design: Skyline Design; Vitracolor Magnetic Marker Glass with Marker Rail. Provide indicated product, or comparable product approved by Architect.
    - b. Panel Sizes: As indicated on Drawings.
    - c. Color and Surface: Clear, back painted Silver Metallic No. 2003-28.
    - d. Mounting: Z-clip cleat provided by glass markerboard manufacturer.

**2.02 ACCESSORIES**

- A. Mounting Brackets: Concealed.

**PART 3 EXECUTION****3.01 INSTALLATION**

- A. Install boards in accordance with manufacturer's instructions.
- B. Secure units level and plumb.

**END OF SECTION 10 1101**



**SECTION 10 2123  
CUBICLES**

**PART 1 GENERAL****1.01 SECTION INCLUDES**

- A. Suspended overhead metal curtain track and guides.
- B. Surface mounted overhead metal curtain track and guides.
- C. Curtains.

**1.02 SUBMITTALS**

- A. Product Data: Provide data for curtain fabric characteristics.
- B. Shop Drawings: Indicate a reflected ceiling plan view of curtain track, hangers and suspension points, attachment details, schedule of curtain sizes.
- C. Samples: Submit 12 by 12 inch sample patch of curtain cloth with representative top, bottom, and edge hem stitch detail, heading with reinforcement, bottom weight, and carrier attachment to curtain header.
- D. Samples: Submit 12 inch sample length of curtain track including typical splice, wall and ceiling hanger, and escutcheon.

**PART 2 PRODUCTS****2.01 MANUFACTURERS**

- A. Cubicle Track and Curtains:
  - 1. A. R. Nelson Co: [www.arnelson.com](http://www.arnelson.com).
  - 2. C/S General Cubicle: [www.c-sgroup.com/cubicle-track-curtains](http://www.c-sgroup.com/cubicle-track-curtains).
  - 3. Imperial Fastener Co., Inc: [www.imperialfastener.com](http://www.imperialfastener.com).

**2.02 TRACKS AND TRACK COMPONENTS**

- A. Track: Extruded aluminum sections; one piece per cubicle track run; I-beam profile.
  - 1. Structural Performance: Capable of supporting vertical test load of 50 lbs without visible deflection of track or damage to supports, safely supporting moving loads, and sufficiently rigid to resist visible deflection and without permanent set.
  - 2. Track End Stop: To fit track section.
  - 3. Track Bends: Minimum 12 inch radius; fabricated without deformation of track section or impeding movement of carriers.
  - 4. Finish on Exposed Surfaces: Clear anodized finish.
- B. Curtain Carriers: Nylon slider to accurately fit track; designed to eliminate bind when curtain is pulled; fitted to curtain to prevent accidental curtain removal; minimum three carriers per foot of track length.
- C. Wand: Aluminum hollow section, attached to lead carrier, for pull-to-close action.

**2.03 CURTAINS**

- A. Curtain Materials:
  - 1. Flame spread index of 25, maximum; smoke developed index of 450, maximum; when tested in accordance with ASTM E84.
  - 2. Naturally flame resistant or flameproofed; capable of passing NFPA 701 test.
  - 3. Curtain Fabric: To be selected by Architect.
  - 4. Open Mesh Cloth: Open weave to permit air circulation; flameproof material, same color as curtain.
  - 5. Curtain Fabrication:
    - a. Manufacture curtains of one piece, sized 10 percent wider than track length. Terminate curtain 15 inches from floor.
    - b. Include open mesh cloth at top 22 inches of curtain for room air circulation.
    - c. Curtain Heading: Triple thickness 2 inches wide, with stitched button holes for carriers 6 inches on center, double fold bottom hem 2 inches wide with lead weights included. Lock stitch seams in two rows. Turn seam edges and lock stitch.

**PART 3 EXECUTION**

**3.01 INSTALLATION**

- A. Install curtain track to be secure, rigid, and true to ceiling line.
- B. Secure track to ceiling system.
- C. Install curtains on carriers ensuring smooth operation.

**END OF SECTION 10 2123**

**SECTION 10 2249  
VERTICAL LIFTING PARTITIONS**

**PART 1 GENERAL****1.01 SECTION INCLUDES**

- A. Vertical lifting partitions.
- B. Partition folding mechanism, ceiling guards, and operating hardware.
- C. Electric operator.

**1.02 SUBMITTALS**

- A. Product Data: Provide data on partition materials, operation, hardware and accessories, electric operating components, and colors and finishes available.
- B. Shop Drawings: Indicate opening sizes, static and dynamic loads, adjacent construction and finish trim, and stacking height.
- C. Samples for Review: Submit two samples of surface finish, 12 by 12 inches size, illustrating quality, colors selected, texture, and weight.

**PART 2 PRODUCTS****2.01 MANUFACTURERS**

- A. Basis of Design: Skyfold Inc.; Skyfold Classic 60: [www.skyfold.com](http://www.skyfold.com). Provide product indicated or comparable product approved by the Architect.

**2.02 PERFORMANCE REQUIREMENTS**

- A. Acoustical Performance: Provide operable panel partitions tested by a qualified testing agency for the following acoustical properties according to test methods indicated:
  - 1. Sound-Transmission Requirements: Operable panel partition assembly tested for laboratory sound-transmission loss performance according to ASTM E90, determined by ASTM E 413, and rated for not less than the STC indicated.
    - a. STC: Not less than 61.
- B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- C. Operable partition shall be designed to have a design life of minimum 10,000 complete closed/open cycles.

**2.03 PARTITION PANELS**

- A. Vertical Lifting Panels: Partition system, including panels, seals, finish facing, suspension system, operators, and accessories.
  - 1. Partition system shall have a stacking height ratio of 1:5 to 1:10, depending on height of wall.
  - 2. Each panel shall be individually removable. Removal of a single panel shall not effect, dislocate or cause the removal of any adjacent panels
  - 3. Panel Weight: 7 lbs/sq. ft.
  - 4. Panel Width: Equal widths.

**2.04 PANEL FOLDING MECHANISM**

- A. Provide pantograph type system manufacturerd from structural grade aluminum extrusions and structural shapes as standard with the manufacturer.
- B. All wear surfaces, such as bearings, bushings, spacers, pins, discs, and sleeves, shall be designed to function quietly with minimum wear for minimum 10,000 cycles.
- C. Provide steel hangers for support to steel structure.

**2.05 PANEL FINISH FACINGS**

- A. Provide finish facings for panels that comply with indicated fire-test-response characteristics and that are factory applied to vertical lifting panel partitions with appropriate backing, using

mildew-resistant nonstaining adhesive as recommended by facing manufacturer's written instructions.

1. Apply one-piece, seamless facings free of air bubbles, wrinkles, blisters, and other defects, with invisible seams complying with Shop Drawings for location, and with no gaps or overlaps. Vertical seams are not permitted. Tightly secure and conceal raw and selvage edges of facing for finished appearance.
- B. Fabric Wall Covering: 100 percent polyolefin woven fabric, from same dye lot, treated to resist stains.
  1. Color/Pattern: As selected by Architect.

**2.06 ELECTRICAL CHARACTERISTICS AND COMPONENTS**

- A. Electric Operator: Nominal speed of 5 to 10 per minute travelling speed; adjustable friction clutch brake actuated by solenoid controlled motor starter; enclosed limit switch; enclosed magnetic reversing starter.
  1. One operator shall be equipped with an LED that flashes fault codes in the event of a power failure.
  2. Include wiring from control stations to motor. Coordinate operator wiring requirements and electrical characteristics with building electrical system.
- B. Control Station: Two standard keyed, three button OPEN-STOP-CLOSE type; 24 volt circuit; recess mounted.

**PART 3 EXECUTION**

**3.01 INSTALLATION**

- A. Install partition in accordance with manufacturer's instructions and ASTM E557.
- B. Install electric operator, wiring, and controls. Locate control station(s) as indicated.
- C. Fit and align partition assembly level and plumb.

**3.02 ADJUSTING**

- A. Adjust partition assembly to provide smooth operation from stacked to full open position. Do not over-compress acoustic seals.

**END OF SECTION 10 2249**



**SECTION 10 2601  
WALL AND CORNER GUARDS**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Corner guards.
- B. Impact-resistant wall covering.

**1.02 SUBMITTALS**

- A. Product Data: Indicate physical dimensions and features.
- B. Samples: Submit two sections of bumper rail, 24 inch long, illustrating component design, configuration, color and finish.

**PART 2 PRODUCTS**

**2.01 COMPONENTS**

- A. Corner Guards - Surface Mounted:
  - 1. Material: Type 304 stainless steel, No. 4 finish, 16 gage, 0.060 inch thick.
  - 2. Width of Wings: 3 inches.
  - 3. Corner: Square.
  - 4. Color: As selected from manufacturer's standard colors.

**2.02 IMPACT-RESISTANT WALL COVERINGS**

- A. Impact-Resistant Sheet Wall Covering: Fabricated from semirigid, plastic sheet wall-covering material.
  - 1. Material: PG/PETG thermoplastic; rigid, smooth.
  - 2. Basis of Design: Inpro Corporation: [www.inprocorp.com](http://www.inprocorp.com). Provide indicated product or comparable by the following:
    - a. Construction Specialties, Inc.: [www.c-sgroup.com](http://www.c-sgroup.com).
    - b. Inpro Corporation (IPC): [www.inprocorp.com](http://www.inprocorp.com).
    - c. Korogard Wall Protection Systems; Koroseal Interior Products, LLC: [www.korogard.com](http://www.korogard.com).
  - 3. Sheet Thickness: 0.040 inch.
  - 4. Color and Texture: As selected by Architect from manufacturer's full range.

**PART 3 EXECUTION**

**3.01 INSTALLATION**

- A. Install components in accordance with manufacturer's instructions, level and plumb, secured rigidly in position to wall framing members only.
- B. Position corner guard 4 inches above finished floor to height indicated on Drawings.

**END OF SECTION 10 2601**



**SECTION 10 2814  
TOILET AND BATH ACCESSORIES**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Accessories for toilet rooms, showers, and utility rooms.
- B. Grab bars.

**PART 2 PRODUCTS**

**2.01 TOILET ROOM ACCESSORIES**

- A. Grab Bars: Stainless steel, nonslip grasping surface finish.
  - 1. Heavy Duty Grab Bars: Floor supports are acceptable if necessary to achieve load rating.
    - a. Push/Pull Point Load: Minimum 1000 pound-force, minimum.
    - b. Dimensions: 1-1/2 inch outside diameter, minimum 0.125 inch wall thickness, exposed flange mounting, 1-1/2 inch clearance between wall and inside of grab bar.
    - c. Length and Configuration: As indicated on drawings.

**2.02 SHOWER ACCESSORIES**

- A. Shower Curtain Rod: Stainless steel tube, 1 inch outside diameter, 0.04 inch wall thickness, satin-finished, with 3 inch outside diameter, minimum 0.04 inch thick satin-finished stainless steel flanges, for installation with exposed fasteners.
- B. Robe Hook: Heavy-duty stainless steel, single-prong, rectangular-shaped bracket and backplate for concealed attachment, satin finish.

**2.03 UTILITY ROOM ACCESSORIES**

- A. Combination Utility Shelf/Mop and Broom Holder: 0.05 inch thick stainless steel, Type 304, with 1/2 inch returned edges, 0.06 inch steel wall brackets.

**PART 3 EXECUTION**

**3.01 INSTALLATION**

- A. Install accessories in accordance with manufacturers' instructions in locations indicated on the drawings.
- B. Install plumb and level, securely and rigidly anchored to substrate.
- C. Mounting Heights: As required by accessibility regulations, unless otherwise indicated.

**END OF SECTION 10 2814**



**SECTION 10 4400  
FIRE PROTECTION SPECIALTIES**

**PART 1 GENERAL****1.01 SECTION INCLUDES**

- A. Fire extinguishers.
- B. Fire extinguisher cabinets.

**1.02 SUBMITTALS**

- A. Product Data: Provide extinguisher operational features, extinguisher ratings and classifications, and color and finish.
- B. Product Data: Provide fire extinguisher cabinet features, color, and finish.
- C. Shop Drawings: Indicate locations of cabinets and cabinet physical dimensions.

**1.03 FIELD CONDITIONS**

- A. Do not install extinguishers when ambient temperature may cause freezing of extinguisher ingredients.

**PART 2 PRODUCTS****2.01 MANUFACTURERS**

- A. Fire Extinguishers:
  - 1. Ansul, a Tyco Business: [www.ansul.com](http://www.ansul.com).
  - 2. JL Industries, Inc: [www.jlindustries.com](http://www.jlindustries.com).
  - 3. Larsen's Manufacturing Co: [www.larsensmfg.com](http://www.larsensmfg.com).
  - 4. Pyro-Chem, a Tyco Business: [www.pyrochem.com](http://www.pyrochem.com).
  - 5. Strike First Corporation of America: [www.strikefirstusa.com](http://www.strikefirstusa.com).
- B. Fire Extinguisher Cabinets and Accessories:
  - 1. Ansul, a Tyco Business: [www.ansul.com](http://www.ansul.com).
  - 2. JL Industries, Inc: [www.jlindustries.com](http://www.jlindustries.com).
  - 3. Larsen's Manufacturing Co: [www.larsensmfg.com](http://www.larsensmfg.com).
  - 4. Pyro-Chem, a Tyco Business: [www.pyrochem.com](http://www.pyrochem.com).
  - 5. Strike First Corporation of America: [www.strikefirstusa.com](http://www.strikefirstusa.com).

**2.02 FIRE EXTINGUISHERS**

- A. Fire Extinguishers - General: Comply with product requirements of NFPA 10 and applicable codes, whichever is more stringent.
- B. Multipurpose Dry Chemical Type Fire Extinguishers: Carbon steel tank, with pressure gage.
  - 1. Class: A:B:C type.
  - 2. Size: 10 pound.
  - 3. Finish: Baked polyester powder coat, red color.

**2.03 FIRE EXTINGUISHER CABINETS**

- A. Fire Rating: Listed and labeled in accordance with ASTM E814 requirements for fire resistance rating of walls where being installed.
- B. Cabinet Construction: Non-fire rated.
  - 1. Formed primed steel sheet; 0.036 inch thick base metal.
- C. Cabinet Configuration: Semi-recessed type.
  - 1. Trim: Flat, with 1 inch wide face.
- D. Door: 0.036 inch thick, reinforced for flatness and rigidity; latch. Hinge doors for 180 degree opening with two butt hinge. Provide nylon catch.
- E. Door Glazing: Tempered glass, clear, 1/8 inch thick, and set in resilient channel glazing gasket.
- F. Cabinet Mounting Hardware: Appropriate to cabinet, with pre-drilled holes for placement of anchors.

- G. Finish of Cabinet Exterior Trim and Door: Red baked enamel.
- H. Finish of Cabinet Interior: White colored enamel.

**PART 3 EXECUTION**

**3.01 INSTALLATION**

- A. Install in accordance with manufacturer's instructions.
- B. Install cabinets plumb and level in wall openings, 60 inches from finished floor to inside top of cabinet, unless otherwise indicated
- C. Secure rigidly in place.
- D. Place extinguishers in cabinets.

**END OF SECTION 10 4400**

**SECTION 11 5343.13**  
**EMERGENCY WASH/SHOWER SAFETY EQUIPMENT**

**PART 1 GENERAL****1.01 SECTION INCLUDES**

- A. Safety station – combination shower and covered eye/face wash unit.
  - 1. Floor mounted.
- B. Barrier free safety station – combination shower and eye/face wash unit.
  - 1. Floor mounted.

**1.02 SUBMITTALS**

- A. Product Data: Specifications, technical data, standard details, and installation recommendations for each type of emergency wash/shower safety equipment required.
- B. Shop Drawings: Showing in large scale, methods of construction, joining, dimensions, materials, thickness, finishes of materials, installation, relation to adjoining work, and other details required to fully illustrate the work.

**PART 2 PRODUCTS****2.01 MANUFACTURERS**

- A. Basis-of-Design Manufacturer: Water Saver Faucet Co.: [www.wsflab.com](http://www.wsflab.com). Provide products indicated or comparable products by the following:
  - 1. Broen Inc.: [www.broen.us](http://www.broen.us).
  - 2. Guardian Equipment: [www.gesafety.com](http://www.gesafety.com).

**2.02 SAFETY STATION – FLOOR MOUNTED COMBINATION SHOWER AND COVERED EYE/FACE WASH**

- A. Combination emergency shower and eye/face wash unit. Eye/face wash unit with dual spray outlets and flip top dust cover, shower activated by pull rod.
- B. Basis of Design: WaterSaver Faucet Co.; SS950BC: [www.wsflab.com](http://www.wsflab.com).

**2.03 BARRIER FREE SAFETY STATION – FLOOR MOUNTED COMBINATION SHOWER AND EYE/FACE WASH**

- A. Basis of Design: WaterSaver Faucet Co.; SSBF994: [www.wsflab.com](http://www.wsflab.com).

**PART 3 EXECUTION****3.01 INSTALLATION**

- A. Install emergency safety equipment to comply with OSHA 29 CFR29 1910.151, "Medical Services and First Aid."
  - 1. Refer to ANSI Z358.1 regarding design, performance, installation, use and maintenance for all emergency eyewash and shower units.

**3.02 FIELD QUALITY CONTROL**

- A. Testing: Test emergency wash safety equipment units after service lines have been tested and balanced. Before testing, clean, sanitize, and lubricate each equipment item in accordance with manufacturer's printed recommendations.

**END OF SECTION 11 5343.13**





**SECTION 11 7829  
NECROPSY EQUIPMENT**

**PART 1 GENERAL****1.01 SECTION INCLUDES**

- A. Cadaver storage rack.
- B. Pathology workstation.

**1.02 SUBMITTALS**

- A. Product Data: Specifications, technical data, standard details, and installation recommendations for each type of necropsy equipment required.
- B. Shop Drawings: Showing in large scale, methods of construction, joining, dimensions, materials, thickness, finishes of materials, installation details including location of anchorage, fitting to adjoining work, and other details required to fully illustrate the work.
- C. Maintenance Manual: Manuals shall be of type used by factory technicians for service and repair, and include parts list and schematic diagrams.

**1.03 QUALITY ASSURANCE**

- A. Product Standard: Comply with SEFA 8, "Laboratory Furniture--Casework, Shelving and Tables--Recommended Practices."

**PART 2 PRODUCTS****2.01 CADAVER STORAGE RACK**

- A. Basis of Design: Mortechn Manufacturing, Inc.; Model 7030-12: [www.mortechmfg.com](http://www.mortechmfg.com).
- B. Heavy gage stainless steel and aluminum construction.
- C. Downdraft and backdraft ventilation.
- D. Roller Assemblies: Five per bay.
- E. Adjustable leveling feet.

**2.02 PATHOLOGY WORKSTATION**

- A. Basis of Design: Mortechn Manufacturing, Inc.; Model GL100: [www.mortechmfg.com](http://www.mortechmfg.com).
- B. Stainless steel construction with all welds ground and polished with No. 4 satin finish.
- C. Size: 32 inches W by 60 inches L by 89.5 inches H.

**PART 3 EXECUTION****3.01 INSTALLATION**

- A. General: Set each item of necropsy equipment securely in place; level, and adjust to correct height. Anchor to supporting substrate where indicated and where required for proper operation. Conceal anchorage where possible.

**3.02 FIELD QUALITY CONTROL**

- A. Testing: Coordinate start-up of necropsy equipment tables after service lines have been tested and balanced, and voltage, and similar requirements have been properly adjusted.
- B. Test necropsy equipment to demonstrate it is operating properly and that controls and safety devices are functioning. Repair or replace necropsy equipment found to be defective in operation, including units that are operating below capacity or with excessive noise or vibration.

**END OF SECTION 11 7829**



**SECTION 12 2400  
WINDOW SHADES**

**PART 1 GENERAL****1.01 SECTION INCLUDES**

- A. Window shades and accessories.

**1.02 SUBMITTALS**

- A. Product Data: Provide manufacturer's standard catalog pages and data sheets including materials, finishes, fabrication details, dimensions, profiles, mounting requirements, and accessories.
- B. Shop Drawings: Include shade schedule indicating size, location and keys to details.
- C. Source Quality Control Submittals: Provide test reports indicating compliance with specified fabric properties.
- D. Verification Samples: Minimum size 6 inches square, representing actual materials, color and pattern.
- E. Project Record Documents: Record actual locations of control systems and show interconnecting wiring.

**1.03 QUALITY ASSURANCE**

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than five years of documented experience.

**1.04 WARRANTY**

- A. Provide manufacturer's warranty from Date of Substantial Completion, covering the following:
  1. Shade Hardware: One year.
  2. Fabric: One year.
  3. Aluminum and Steel Coatings: One year.

**PART 2 PRODUCTS****2.01 MANUFACTURERS**

- A. Manually Operated Roller Shades:
  1. Draper, Inc: [www.draperinc.com](http://www.draperinc.com).
  2. Lutron Electronics Co., Inc: [www.lutron.com](http://www.lutron.com).
  3. Hunter Douglas: [www.hunterdouglas.com](http://www.hunterdouglas.com).
  4. MechoShade Systems, Inc.; : [www.mechoshade.com](http://www.mechoshade.com).
  5. SWFcontract, a division of Springs Window Fashions, LLC.: [www.swfcontract.com](http://www.swfcontract.com).

**2.02 WINDOW SHADE APPLICATIONS**

- A. Shades: Sheer shades.
  1. Type: Roller shades.
  2. Fabric: As selected by Architect..
  3. Color: As selected by Architect from manufacturer's full range of colors.
  4. Mounting: Inside (between jambs).
  5. Operation: Manual.

**2.03 ROLLER SHADES**

- A. Roller Shades: Fabric roller shades complete with mounting brackets, roller tubes, hembars, hardware and accessories; fully factory-assembled.
  1. Drop: Regular roll.
  2. Size: As indicated on drawings.
- B. Fabric: Non-flammable, color-fast, impervious to heat and moisture, and able to retain its shape under normal operation; PVC-free; 100 percent recycled.
  1. Sheer Shades: Reduce glare yet still reveal considerable details to the outside; no privacy; Openness Factor greater than 1 percent.
  2. Flammability: Pass NFPA 701 large and small tests.

- 3. Fungal Resistance: No growth when tested according to ASTM G21.
- C. Roller Tube: As required for type of operation, extruded aluminum with end caps.
  - 1. Dimensions: Manufacturer's standard, selected for suitability for installation conditions, span, and weight of shades.
  - 2. Fabric Attachment: Utilize double sided adhesive tape.
- D. Hembars and Hembar Pockets: Wall thickness designed for weight requirements and adaptation to uneven surfaces, to maintain bottom of shade straight and flat.
- E. Manual Operation: Clutch operated continuous loop; beaded ball chain.

**2.04 ACCESSORIES**

- A. Fascias: Size as required to conceal shade mounting.
  - 1. Style: As selected by Architect from shade manufacturer's full selection.
  - 2. Material and Color: To match shade.
- B. Brackets and Mounting Hardware: As recommended by manufacturer for mounting configuration and span indicated.
- C. Fasteners: Non-corrosive, and as recommended by shade manufacturer.

**PART 3 EXECUTION**

**3.01 INSTALLATION**

- A. Install in accordance with manufacturer's instructions and approved shop drawings, using mounting devices as indicated.
- B. Adjust level, projection and shade centering from mounting bracket. Verify there is no telescoping of shade fabric. Ensure smooth shade operation.

**3.02 CLOSEOUT ACTIVITIES**

- A. Demonstration: Demonstrate operation and maintenance of window shade system to Owner's personnel.

**END OF SECTION 12 2400**

**SECTION 12 3553.13**  
**METAL LABORATORY CASEWORK**

**PART 1 GENERAL****1.01 SECTION INCLUDES**

- A. Metal cabinets and cabinet hardware.

**1.02 SUBMITTALS**

- A. Product Data: Details of materials, component dimensions and configurations, construction details, joint details, attachments; manufacturer's catalog literature on hardware, accessories, and service fittings, if any.
- B. Shop Drawings: Casework locations, large scale plans, elevations, cross sections, rough-in and anchor placement dimensions and tolerances, clearances required, and utility locations, if any.
- C. Keying Schedule: Include schematic keying diagram and index each key set to unique designations that are coordinated with the Contract Documents.

**1.03 CONCURRENT SUBMITTALS**

- A. Concurrent Submittals: Submittals for the following Sections shall be coordinated and submitted simultaneously.
  - 1. Section 12 3653 - Laboratory Casework Tops.

**PART 2 PRODUCTS****2.01 MANUFACTURERS**

- A. Metal Laboratory Casework:
  - 1. Bedcolab Ltd: [bedcolab.com](http://bedcolab.com).
  - 2. Lab Crafters, Inc.: [www.lab-crafters.com](http://www.lab-crafters.com).
  - 3. Mott Manufacturing: [www.mott.ca](http://www.mott.ca).
  - 4. Kewaunee Scientific Corp: [www.kewaunee.com](http://www.kewaunee.com).

**2.02 METAL LABORATORY CASEWORK**

- A. Casework: Die-formed metal sheet; each unit self-contained and not dependent on adjacent units or building structure for rigidity; factory-fabricated, factory-assembled, and factory-finished.
  - 1. Style: Flush overlay.
  - 2. Steel Sheet Metal:
    - a. Gables, Front and Back Panels, Gusset Plates and Rails: 18 gage, 0.0478 inch minimum thickness.
    - b. Drawers, Cabinet Floors, Shelves, Filler Panels and Drawer Dividers: 20 gage, 0.0359 inch minimum thickness.
    - c. Backing Sheet to Door and Door Fronts: 22 gage, 0.0299 inch minimum thickness.
  - 3. Structural Performance: In addition to the requirements of SEFA 3, SEFA 7 and SEFA 8M, provide components that safely support the following minimum loads, without deformation or damage:
    - a. Base Units: 500 lbs/linear ft across the cabinet ends.
    - b. Drawers: 150 pounds.
    - c. Hanging Wall Cases: 300 lbs.
    - d. Shelves: 100 pounds.
  - 4. Metal Finish Performance Requirements:
    - a. Abrasion resistance: Maximum weight loss of 5.5 mg. per 100 cycle when tested on a Taber Abrasion Tester #E40101 with 1000 gm wheel pressure and Calibrase #CS10 wheel.
    - b. Humidity resistance: Withstand 1000 hour exposure in saturated humidity at 100 degrees F.
    - c. No visible effect to surface finish following 100 hour continuous application of a water soaked cellulose sponge, maintained in a wet condition throughout the test period.
    - d. Salt Spray: Withstand minimum 200 hour salt spray test.

5. Corners and Joints: Without gaps or inaccessible spaces or areas where dirt or moisture could accumulate.
  6. Edges and Seams: Smooth. Form counter tops, shelves, and drain boards from continuous sheets.
  7. Shelf Edges: Turn down 1 inch on each side and return 5/8 inch front and back.
  8. Ends: Close open ends with matching construction.
  9. Welding: Electric spot weld; grind joints smooth and flush.
  10. Drawers and Doors: Fabricate drawer and door fronts of sandwiched sheets of sheet steel welded together and reinforced for hardware. Fill with sound deadening core.
  11. Finish on Sheet Steel: Provide surface finish having chemical resistance equal to Level 0 (no change) or Level 1 (slight change of gloss or slight discoloration) according to SEFA 8M.
    - a. Coating Type: Baked on epoxy; minimum two coats.
    - b. Color: As selected from manufacturer's standard selection.
- B. Countertops: As specified in Section 12 3653.

**2.03 MATERIALS**

- A. Sheet Steel: High-strength low-alloy, cold rolled and leveled unfinished steel sheet, ASTM A1008/A1008M, Class 1 (matte) finish.
- B. Solvent-Resistant Liner Material: Polypropylene.

**2.04 CABINET HARDWARE**

- A. Cabinet Hardware: Manufacturer's standard styles, exposed components stainless steel.
  1. Finish of Exposed Components: No. 4 finish.

**PART 3 EXECUTION**

**3.01 INSTALLATION**

- A. Perform installation in accordance with manufacturer's instructions and with SEFA 2.3.
- B. Replace units that are damaged, including those that have damaged finishes.

**END OF SECTION 12 3553.13**

**SECTION 12 3600  
COUNTERTOPS**

**PART 1 GENERAL****1.01 SECTION INCLUDES**

- A. Countertops for architectural cabinet work.
- B. Wall-hung counters and vanity tops.

**1.02 SUBMITTALS**

- A. Product Data: Manufacturer's data sheets on each product to be used, including:
  - 1. Preparation instructions and recommendations.
  - 2. Storage and handling requirements and recommendations.
  - 3. Specimen warranty.
- B. Shop Drawings: Complete details of materials and installation; combine with shop drawings of cabinets and casework specified in other sections.
- C. Verification Samples: For each finish product specified, minimum size 6 inches square, representing actual product, color, and patterns.

**PART 2 PRODUCTS****2.01 COUNTERTOPS**

- A. Quality Standard: Premium Grade, in accordance with AWI/AWMAC/WI (AWS).
- B. Plastic Laminate Countertops: High-pressure decorative laminate (HPDL) sheet bonded to substrate.
  - 1. Laminate Sheet: NEMA LD 3, Grade HGS, 0.048 inch nominal thickness.
    - a. Surface Burning Characteristics: Flame spread index of 25, maximum; smoke developed index of 450, maximum; when tested in accordance with ASTM E84.
    - b. Finish: Matte or suede, gloss rating of 5 to 20.
  - 2. Exposed Edge Treatment: Square, substrate built up to minimum 1-1/4 inch thick; covered with matching laminate.
  - 3. Back and End Splashes: Same material, same construction.
  - 4. Fabricate in accordance with AWI/AWMAC/WI (AWS), Section 11 - Countertops, Premium Grade.

**2.02 ACCESSORY MATERIALS**

- A. Particleboard for Supporting Substrate: ANSI A208.1 Grade 2-M-2, 45 pcf minimum density; minimum 3/4 inch thick; join lengths using metal splines.
- B. Adhesives: Chemical resistant waterproof adhesive as recommended by manufacturer of materials being joined.

**2.03 FABRICATION**

- A. Fabricate tops and splashes in the largest sections practicable, with top surface of joints flush.
- B. Provide back/end splash wherever counter edge abuts vertical surface unless otherwise indicated.
- C. Wall-Mounted Counters: Provide skirts, aprons, brackets, and braces as indicated on drawings, finished to match.

**PART 3 EXECUTION****3.01 INSTALLATION**

- A. Securely attach countertops to cabinets using concealed fasteners. Make flat surfaces level; shim where required.
- B. Attach plastic laminate countertops using screws with minimum penetration into substrate board of 5/8 inch.
- C. Seal joint between back/end splashes and vertical surfaces.

**END OF SECTION 12 3600**





**SECTION 12 3653  
LABORATORY CASEWORK TOPS**

**PART 1 GENERAL****1.01 SECTION INCLUDES**

- A. Laboratory casework tops.
  - 1. Cast epoxy resin tops.
  - 2. Wall support system for tops.

**1.02 SUBMITTALS**

- A. Product Data: For each type of laboratory casework top specified.
- B. Shop Drawings: For laboratory casework tops showing plan layout, location and type of service fittings.

**1.03 CONCURRENT SUBMITTALS**

- A. Concurrent Submittals: Submittals for the following Sections shall be coordinated and submitted simultaneously.
  - 1. Section 12 3553.13 - Metal Laboratory Casework.

**PART 2 PRODUCTS****2.01 PERFORMANCE REQUIREMENTS**

- A. Seismic Performance: Laboratory casework tops shall withstand the effects of earthquake motions determined according to ASCE 7.

**2.02 CAST EPOXY RESIN TOPS**

- A. Manufacturers:
  - 1. Durcon Inc.; [www.durcon.com](http://www.durcon.com).
- B. Factory molded tops of modified epoxy resin formulation, uniform mixture throughout full thickness; especially compounded and cured to provide optimum physical and chemical resistance; smooth, non-specular finish of color indicated.
- C. Provide front and end overhang of 1 inch over base cabinets, form with continuous drip groove on under surface 1/2 inch from edge; tolerance not exceeding plus or minus 1/32 inch. Provide in longest practical lengths.
  - 1. Thickness: 1 inch.
  - 2. Color: Black.
- D. Backsplash: Applied butt type; 4 inches high, unless indicated otherwise; provide end curbs where tops abut walls, fume hoods, and other fixed surfaces.

**2.03 COUNTER TOP SUPPORT SYSTEM**

- A. Counter Top Support System: Surface mounted, L-shaped brackets fabricated from aluminum T sections. Brackets shall be all-welded construction with welds ground smooth and polished.
  - 1. Bracket Capacity: 450 pounds.
  - 2. Product: Rangine Corporation; Rakks EH-1800 Series as indicated on Drawings.

**PART 3 EXECUTION****3.01 INSTALLATION**

- A. Comply with installation requirements in SEFA 2. Abut top and edge surfaces in one true plane with flush hairline joints and with internal supports placed to prevent deflection. Locate joints only where indicated on Shop Drawings.
- B. Fastening Tops to Base Cabinets:
  - 1. Epoxy Tops: Secure tops to cabinets with silicone adhesive, applied at each corner and continuously along perimeter edges.
- C. Fastening Tops to Metal Wall-Hung Brackets:

1. Epoxy Tops: Secure tops to brackets with screws, applied at each corner by screwing through top bracket arm into underside of countertop. Provide pre-drilled holes for field installed stainless steel flathead torx or square head screws.
- D. Caulk space between wall and countertops with mildew-resistant silicone sealant specified in Section 07 9200 - Joint Sealants.

**END OF SECTION 12 3653**

**SECTION 20 1000  
GENERAL MECHANICAL REQUIREMENTS**

**PART 1 GENERAL**

**1.01 SCOPE**

- A. Furnish labor, materials, and equipment necessary for completion of work unless indicated or noted otherwise.
- B. Put all systems into full operation and adjust to specified conditions.
- C. Pay all permits and fees levied by utility companies and/or governing agencies.

**1.02 REQUIREMENTS OF REGULATORY AGENCIES**

- A. Perform work in accordance with applicable provisions of International Mechanical Code, International Building Code, Uniform Plumbing Code, all State and local codes and Ordinances, and adoptions thereof. Provide materials and labor necessary to comply with rules, regulations, and ordinances.
- B. In case of differences between building codes, state laws, local ordinances, utility company regulations, and Contract Documents, the most stringent shall govern.

**1.03 SHOP DRAWINGS**

- A. Shop drawings and material schedules shall be submitted for approval on all materials and equipment prior to ordering.

**1.04 MECHANICAL COST BREAKDOWN**

- A. The contractor shall furnish to the Owner's Representative a breakdown of the mechanical construction cost within 30 days of notice to proceed. Each item shall include separate figures for labor and material.

**1.05 CUTTING AND PATCHING**

- A. Cutting and patching for work installed in this Division is the responsibility of Section doing the work. Patch and repair walls, floors, ceilings and roofs with materials of same quality and appearance as adjacent surfaces unless otherwise shown. Surface finishes shall exactly match existing finishes of same materials.

**1.06 OUTAGES**

- A. All connections to and disconnections from Owner utilities shall be coordinated with and approved by the Owner prior to proceeding with the work.

**END OF SECTION 20 1000**



**SECTION 20 1002  
ADDITIONS OR REMODELED FACILITIES**

**PART 1 GENERAL**

**1.01 SITE INSPECTION**

- A. Examine premises and understand the conditions that may affect performance of work of this Division before submitting proposals for this work.

**1.02 PHASED CONSTRUCTION**

- A. Contractor shall be aware that this is a phased project. There will be occupied areas adjacent to construction areas that must remain operable.
- B. Contractor shall coordinate work to interface with existing work and/or other contract work as indicated on the drawings.
- C. Contractors schedule shall allow for work provided by the Owner, or others, such as asbestos abatement and/or equipment removal or cleanup.
- D. All systems shall be fully operational to the extent that they are installed at the termination of each phase of the work.
- E. System ducts and/or piping passing through existing, future, or other phase areas shall be installed, if required, to make work installed under the current phase operational.
- F. All connections to and disconnections from existing utilities such as heating, water, sewer, etc. and temperature control systems shall be coordinated with and approved by the Owner prior to proceeding with the work.

**1.03 DEMOLITION**

- A. Demolition of mechanical systems and equipment in remodeled areas shall be provided under Division 20 through 23.

**END OF SECTION 20 1002**



**SECTION 20 1006  
PROJECT FINALIZATION**

**PART 1 GENERAL**

**1.01 OPERATION AND MAINTENANCE MANUAL**

- A. Bind Operation and Maintenance Manual for Mechanical Systems in a black hard-backed binder to include complete information on parts replacement and maintenance requirements for all systems and equipment provided under Divisions 20 through 23. This shall include maintenance and operation data for owner furnished equipment installed under Divisions 20 through 23 where information is provided with the equipment by the Owner.

**1.02 OPERATING AND INSTRUCTIONAL PERIOD**

- A. Complete instructional period on operation and maintenance of all mechanical and control systems shall be provided for Owner's operating and maintenance personnel.

**1.03 RECORD DRAWINGS**

- A. Record differences between mechanical work as installed and as shown in Contract Documents on a set of prints of mechanical drawings to be furnished by Owner's Representative. Return these prints to Owner's Representative.

**1.04 PROJECT CLOSEOUT**

- A. The Contractor shall notify the Owner's Representative in writing when the project is ready for punch lists. After punch lists are complete, written notice must be forwarded to the Owner's Representative requesting final checkout.

**1.05 GUARANTEE**

- A. In addition to standard one year warranty specified in General Conditions, guarantee heating, cooling and plumbing systems to be free from noise in operation that may develop because of failure to construct system in accordance with Contract Documents.

**1.06 EQUIPMENT AND MATERIALS**

- A. Materials used under this Contract, unless specifically noted otherwise, shall be new and have the latest and most current model line produced by the manufacturer. Each item of equipment shall conform to the latest Standard Specifications of the American Society for Testing Materials and shall conform to any applicable standards of the United States Department of Commerce.
- B. Motor and equipment name plates as well as applicable UL and AGA labels shall be in place when Project is turned over to the Owner.

**END OF SECTION 20 1006**





**SECTION 20 1007  
TESTING, ADJUSTING, AND BALANCING**

**PART 1 GENERAL**

**1.01 SCOPE**

- A. Air and domestic hot water distribution systems shall be balanced to conditions specified and indicated on the drawings by an independent balancing agency.

**1.02 TESTING AGENCY**

- A. Work by this Agency shall be done under direct supervision of a qualified Heating and Ventilating Engineer employed by Agency or be a member of the AABC or NEBB balancing organizations.

**END OF SECTION 20 1007**



**SECTION 20 1009  
MECHANICAL COMMISSIONING SUPPORT**

**PART 1 GENERAL**

**1.01 SCOPE**

- A. The equipment and systems referenced in the Related Work section are to be commissioned in accordance with the Idaho State Energy Code. The contractor has specific responsibilities for scheduling, coordination, startup, testing and documentation. Coordinate all commissioning activities with the Commissioning Authority. The Commissioning Authority will work under direct contract with the Owner.
- B. Include time for commissioning activities on the construction schedule to complete commissioning prior to substantial completion with the exception of seasonal testing which the commissioning agent determines should coincide with peak heating and cooling weather conditions.

**END OF SECTION 20 1009**



**SECTION 21 1313  
SPRINKLER SYSTEMS**

**PART 1 GENERAL**

**1.01 PROJECT INCLUDES**

- A. Extension of existing fire sprinkler system in the building.
- B. Fire protection sprinklers will be provided throughout the building. Wet-pipe systems will be used throughout, except in areas subject to freezing.
- C. Systems will be calculated for a light hazard density in most areas. Mechanical rooms, and storage areas will be designed for an ordinary hazard group 1 density.
- D. System design will be based on a current water supply information provided by the water department or the owner.
- E. Zoning for the system is to be determined.
- F. The system will be supplied by a connection to the existing campus water main.
- G. All shop drawings and calculations produced by the contractor shall be approved by the local fire department.
- H. All work will be in accordance with NFPA 13 and the International Fire Code.

**1.02 PRODUCTS**

- A. Sprinklers will be quick response throughout in accordance with the 2013 NFPA 13. White, semi-recessed glass bulb sprinklers with white escutcheons will be used. Extended coverage sprinklers will be used where appropriate and where expense can be reduced by doing so.
- B. Pipe will be black steel throughout, of schedule and wall thickness as required and permitted by NFPA 13. All threaded pipe will be schedule 40.
- C. Hangers will be primarily c-clamps.

**1.03 INSTALLATION**

- A. All sprinklers to be centered in ceiling tiles.

**END OF SECTION 21 1313**



**SECTION 22 0503  
PLUMBING PIPING AND VALVES**

**PART 1 GENERAL****1.01 SCOPE**

- A. Furnish and install all domestic hot and cold water piping within the building all connect with outside utility lines 5 feet from building where applicable; or with existing water piping where indicated.
- B. Furnish and install all soil, waste, and vent piping systems within building and connect with outside utility lines 5 feet out from building where applicable; or with existing waste piping where indicated.
- C. Furnish and install natural gas piping systems from the Utility Meter outside the building to the gas fired appliances where indicated. Natural gas piping from the Utility Mains to the meter shall be provided by the serving utility. Contractor shall coordinate with Utility and pay any utility charges
- D. Furnish and install complete indirect waste systems as indicated. In general, this work shall include coil pan drains, relief valve and equipment drains, unit cooler drains and plumbing fixture drains which are piped indirect. Work shall include connection to equipment, trap if required, and piping to point of discharge.

**1.02 HOT AND COLD WATER PIPING – ABOVE GRADE**

- A. Type L hard drawn copper conforming to ASTM-B-88. Wrought copper fitting with 95/5 (no lead) solder.

**1.03 ABOVE GRADE WASTE AND VENT PIPE**

- A. Service weight cast iron with heavy duty no-hub couplings and neoprene gasket.
- B. Schedule 40 galvanized steel with Durham coated cast iron fittings.
- C. DWV copper drainage tube with DWV fittings.

**1.04 NO-HUB COUPLINGS**

- A. No-hub couplings shall be equal to Husky SD 2000. Corrugated Couplings for pipe size through 4" shall have a minimum of 4 bands and 6 bands for 5" through 10" Smooth couplings through 4" shall have 2 bands and 4 bands for 5" through 10". System shall meet ASTM C-654 and performance requirements of FM 1680 class 1.

**1.05 NATURAL GAS PIPING ABOVE GRADE**

- A. Schedule 40 steel pipe conforming to ASTM A 53, fittings to be ASTM B16.3, malleable iron or ASTM A234, forged steel welding type. Joints NFPA 54, threaded to ANSI B31.2 or B31.9 for pipe 2 inches and under, welded to ASME Sec 1 or ANSI /AWS D1.1 for pipe over 2 inches.

**1.06 INDIRECT WASTE PIPING**

- A. Type L or M hard drawn copper. Wrought copper fitting with 50/50 solder.
- B. Provide a trap and union on all piping connected to air handling equipment. Depth of trap seal shall equal the total static pressure scheduled for air handler.

**1.07 NATURAL GAS PIPING ABOVE GRADE**

- A. Schedule 40 steel pipe conforming to ASTM A 53, fittings to be ASTM B16.3, malleable iron or ASTM A234, forged steel welding type. Joints NFPA 54, threaded to ANSI B31.2 or B31.9 for pipe 2 inches and under, welded to ASME Sec 1 or ANSI /AWS D1.1 for pipe over 2 inches.

**1.08 BALL VALVES**

- A. Up to 2 inch: 125 lb. cast bronze, standard port, stainless steel ball, Teflon seat, lever handle, threaded ends.

**1.09 BUTTERFLY VALVES**

- A. Up to 2 inch: 175 PSI cast bronze, stainless steel disc and stem, Viton® seal, lever handles, threaded ends.

- B. Over 2 inch: 150 PSI, lug type conforming to API609, iron body, bronze disc, stainless steel stem, Buna or EPT seat, infinite position lever handle with memory stop.
- C. Valves 4 inch and over shall be furnished with gear drive and handle with position indicator.

**1.10 CHECK VALVES**

- A. Up to 2 inch: 125 lb., cast bronze, bronze pin, renewable Buna seat, threaded ends.
- B. Over 2 inch: wafer type cast iron body, 125 lb, stainless steel internal with Buna seat.

**END OF SECTION 22 0503**



**SECTION 22 0504  
PLUMBING SPECIALTIES**

**PART 1 GENERAL**

**1.01 FLOOR CLEANOUTS**

- A. Coated cast iron body, scoriated, heavy duty nickel bronze top, fully adjustable, and secured to body. Gasket sealed iron closure plug.

**1.02 WALL CLEANOUT**

- A. Coated cast iron cleanout tee. Gasket sealed iron plug. Shallow type, round, stainless steel wall cover with center vandal-proof screw.

**1.03 TRAP PRIMERS**

- A. Automatic metering type to operate on pressure drop in piping serving fixture. Device shall be completely serviceable and installed in accessible location.

**1.04 WATER HAMMER ARRESTORS**

- A. Arrestors shall be bellows or bladder type to separate compression chamber from potable water.

**1.05 FLOOR DRAINS**

- A. Drain shall be furnished with companion traps of material to match connecting piping.
- B. Drain bodies shall be coated cast iron and to include flashing collar and weep hole.
- C. Drain strainers in finished areas shall be nickel bronze unless otherwise noted and cast iron in unfinished areas.

**1.06 BACKFLOW PREVENTERS**

- A. Regulations: Devices shall meet the requirements of ASSE, AWWA, and USC Foundation for Cross Connection Control and Hydraulic Research.
- B. Assembly shall be complete with double check or reduced pressure backflow device, isolation valves, strainer, relief valves, and drain connection. See drawings for size and type.
- C. Backflow device shall have bronze body, stainless steel springs with all internal parts corrosion resistant.

**END OF SECTION 22 0504**



**SECTION 22 0513  
MOTORS**

**PART 1 GENERAL**

**1.01 STANDARDS**

- A. Electrically driven or electrically connected equipment shall be of a type which shall conform to any applicable standards of the National Bureau of Standards of the United States Department of Commerce or the standards of the Underwriters Laboratories or another nationally recognized testing laboratory. Equipment items shall bear the UL label or equivalent.

**1.02 STARTERS**

- A. Installation and wiring of motor controls shall be accomplished under Division 26.
- B. Magnetic starters and thermal protective devices (heaters) not a factory mounted integral part of packaged equipment are specified in Division 26.
- C. Magnetic starters located within motor control center shall be provided under Division 26.

**1.03 MOTOR CONTROLS**

- A. Variable frequency drives and associated thermal protective devices are furnished by Section 23 09 23 and installed by Division 26.
- B. Disconnects shall be provided under Division 26.

**1.04 ELECTRIC MOTORS**

- A. Unless otherwise noted, electric motors rated ½ HP and smaller shall be rated 115 volts, single phase, those rated ¾ HP and larger shall be rated as specified and scheduled. Motors provided for mechanical equipment shall be "High Efficiency" type. Motors shall be suitable for use with Variable Frequency Drives where required.

**END OF SECTION 22 0513**



**SECTION 22 0515  
GAUGES AND METERS**

**PART 1 GENERAL**

**1.01 THERMOMETERS**

- A. Straight type with adjustable swivel joint, 7 inch scale to suit application and well suitable for service.

**1.02 PRESSURE GAUGES**

- A. Provide gauges with 4½ inches minimum dial, 1.0 % maximum error and range adequate to cover full operating range.
- B. Gauges shall be provided with cocks and snubbers.
- C. Face of dial shall identify units that the gauge is reading.

**END OF SECTION 22 0515**



**SECTION 22 0529**  
**SUPPORTS, ANCHORS, CURBS, SEALS AND FLASHINGS**

**PART 1 GENERAL****1.01 PIPE HANGERS**

- A. All piping systems shall be supported with proper hangers for the service. Hangers and supports for insulated piping shall be provided with suitable insulation saddles or shields.

**1.02 SLEEVES AND PLATES**

- A. Provide sleeves around pipes passing through floors, walls, partitions, or structural members. Pipe openings drilled or cast in concrete wall panels do not require sleeve.
- B. Furnish and install trim plates on all pipe penetrations exposed to view. Plates shall be chromium plated brass escutcheons. Plates shall secure to pipe except where pipe penetrates floor it shall secure to sleeve.

**1.03 EQUIPMENT STANDS**

- A. Concrete and/or metal bases, foundations, brackets and stands for mechanical equipment shall be provided as required for proper support of mechanical equipment.

**1.04 HOUSEKEEPING PADS**

- A. Equipment housekeeping pads shall be reinforced concrete sized to suit the equipment. Concrete pads not in Division 22.

**1.05 CURBS**

- A. Curbs for roof exhausters and packaged roof top equipment specified with the equipment shall be provided under this Section of the specifications. Coordinate with roofing system.

**1.06 SEALS AND CAULKING**

- A. Where pipes or ducts pass through walls they shall be completely sealed and isolated from the walls by the use of 1½ lb. density fiberglass blanket insulation around exterior of pipe or duct and plastic non-hardening caulking seals at both sides. In areas where water may occur at floor penetrations caulking shall be watertight.
- B. All utility openings entering building underground shall be thoroughly sealed using Link-Seal.

**1.07 FIRE WALL PENETRATIONS**

- A. All holes or voids created to extend mechanical systems through fire rated floors, ceilings and walls shall be sealed under Division 22 with an intumescent material with ICBO, BOCAI and SBCCI (NRB 243) approved ratings to 3 hours per ASTM E-814 (UL 1479).

**1.08 FLASHING**

- A. All pipes passing through the roof shall be flashed at the roof with 4 lbs. sheet lead or other flashing specifically designed for use with the roofing system used.

**END OF SECTION 22 0529**





**SECTION 22 0548  
VIBRATION ISOLATION**

**PART 1 GENERAL**

**1.01 SCOPE**

- A. Furnish and install vibration isolation mountings for all piping and motorized equipment installed under this contract in accordance with the requirements outlined by the project acoustician (Threshold) in the acoustic design guidelines.

**1.02 DESIGN CRITERIA**

- A. Mountings shall provide 98 % efficiency for all applications where equipment is not mounted on slabs at grade and 95 % for equipment installed on slabs on grade. Final selection shall be based on equipment as well as vibration.

**1.03 FLEXIBLE PIPE CONNECTIONS**

- A. Project Requirements
  - 1. Provide flexible pipe connections for any base-mounted pumps or air compressors.

**END OF SECTION 22 0548**



**SECTION 22 0553  
MECHANICAL IDENTIFICATION**

**PART 1 GENERAL**

**1.01 MATERIAL AND EQUIPMENT IDENTIFICATION**

- A. Piping and Equipment
  - 1. Piping is to be labeled a minimum of every 20' and at changes in direction and near valves and tees with plastic bands identifying fluid and direction of flow. Also identify at branches, wall penetrations, and valves. Lettering to be readable from 20', fire sprinkler piping does not require identification.
- B. Ceiling Grid Markings
  - 1. The lay-in ceiling grid shall be marked with mechanically fastened engraved plastic plates to identify the location of all fans, terminal boxes, air handlers, or other mechanical equipment which is scheduled or identified by number and installed above the ceiling. The engraved identification is to match the identification on the contract documents.

**END OF SECTION 22 0553**



**SECTION 22 0700  
PIPING INSULATION**

**PART 1 GENERAL**

**1.01 SCOPE**

- A. Insulate domestic hot and cold water piping and fittings.

**1.02 STANDARDS**

- A. Unless specified otherwise, insulation shall have been compositely tested for fire and smoke hazard ratings according to recognized standard testing methods and shall have ratings not exceeding flame spread 25, fuel contributed 50 and smoke developed 50.
- B. Agencies Standards:
  - 1. ASTM E-84
  - 2. NFPA 255
  - 3. UL 723

**1.03 MATERIAL**

- A. Rigid, molded fiberglass with all-purpose jacket and pressure sensitive closure system.
- B. Insulated PVC fitting covers, equal to Zeston with "Hi-Lo" insulation inserts.

**1.04 DOMESTIC HOT WATER PIPING**

- A. Sizes 2 inch and under: 1 inch thick rigid fiberglass
- B. Branch runouts less than 12 feet in length: ½ inch thick rigid fiberglass
- C. Sizes over 2 inch: 1½ inches thick rigid fiberglass

**1.05 COLD WATER PIPING**

- A. 1 inch thick rigid fiberglass

**END OF SECTION 22 0700**



**SECTION 22 3000  
PLUMBING EQUIPMENT**

**PART 1 GENERAL**

**1.01 WATER HEATERS**

- A. Gas fired water heating system with storage type heaters and water storage tanks, high efficiency, sealed combustion.

**1.02 IN-LINE CIRCULATOR PUMPS**

- A. Bronze casing with stainless steel rotor, bronze impeller and alloy steel shaft. B&G, TACO, PACO and Armstrong.

**END OF SECTION 22 3000**





**SECTION 22 3100  
EQUIPMENT INSTALLED ONLY**

**PART 1 GENERAL**

**1.01 SCOPE**

- A. Rough-in, connect and mount equipment indicated and scheduled. In general, work under this section shall include equipment furnished under separate contract, different division or owner furnished.

**END OF SECTION 22 3100**



**SECTION 22 4000  
PLUMBING FIXTURES**

**PART 1 GENERAL****1.01 SCOPE**

- A. Fixtures shall be complete with fittings, trim, supplies, traps supports, and carriers to make a complete installation.

**1.02 WATER CLOSETS**

- A. Public toilet room fixtures are white, wall mount commercial grade vitreous china fixtures with heavy duty carriers. Water closets shall be designed to effectively flush with the specified water volumes. Seats are institutional grade, with an open front, extended back, brass bolts, without cover and check hinge. Flush valve operated.

**1.03 URINALS**

- A. Urinals are white, wall mount commercial grade vitreous china fixtures with heavy duty carriers, designed to effectively flush with the specified water volumes. Flush valve operated. No waterless urinals.

**1.04 SENSOR OPERATED FLUSH VALVES**

- A. Chrome plated, battery powered automatic valve.

**1.05 LAVATORIES**

- A. Public toilet room lavatories are white, wall or counter mount commercial grade vitreous china, with heavy duty carriers for wall hung fixtures.

**1.06 COUNTER MOUNTED SINKS**

- A. Stainless steel, commercial grade, self-rimming.

**1.07 LAVATORY FAUCET**

- A. Single lever, all brass construction with temperature limit stops similar to model 8413.

**1.08 SINK FAUCETS**

- A. Single handle faucet with hose and spray similar to model 8720.

**1.09 SHOWER MIXING VALVES**

- A. Pressure balancing mixing valve.

**1.10 SERVICE SINKS**

- A. Terrazzo floor mounted with splash shield, faucet hose and wall hook and mop hanger. Stern Williams, Fiat, Florestone.

**1.11 EMERGENCY EQUIPMENT**

- A. Manufactured to meet ANSI Standard and OSHA rules and regulations.

**1.12 SPECIAL FIXTURES**

- A. Laboratory fixtures and fixtures and trim of a special nature shall be of manufacture scheduled.

**END OF SECTION 22 4000**



**SECTION 23 0513  
MOTORS**

**PART 1 GENERAL**

**1.01 STANDARDS**

- A. Electrically driven or electrically connected equipment shall be of a type which shall conform to any applicable standards of the National Bureau of Standards of the United States Department of Commerce or the standards of the Underwriters Laboratories or another nationally recognized testing laboratory. Equipment items shall bear the UL label or equivalent.

**1.02 STARTERS**

- A. Installation and wiring of motor controls shall be accomplished under Division 26.
- B. Magnetic starters and thermal protective devices (heaters) not a factory mounted integral part of packaged equipment are specified in Division 26.
- C. Magnetic starters located within motor control center shall be provided under Division 26.

**1.03 MOTOR CONTROLS**

- A. Variable frequency drives and associated thermal protective devices are furnished by Section 23 09 33 and installed by Division 26.
- B. Disconnects shall be provided under Division 26.

**1.04 ELECTRIC MOTORS**

- A. Unless otherwise noted, electric motors rated ½ HP and smaller shall be rated 115 volts, single phase, those rated ¾ HP and larger shall be rated as specified and scheduled. Motors provided for mechanical equipment shall be "High Efficiency" type. Motors shall be suitable for use with Variable Frequency Drives where required. Fractional HP motors from 1/12 HP through 1 HP shall be of the electronically communicated motor (ECM) type.

**END OF SECTION 23 0513**



**SECTION 23 0515  
GAUGES AND METERS**

**PART 1 GENERAL**

**1.01 THERMOMETERS**

- A. Straight type with adjustable swivel joint, 7 inch scale to suit application and well suitable for service.

**1.02 PRESSURE GAUGES**

- A. Provide gauges with 4½ inches minimum dial, 1.0 % maximum error and range adequate to cover full operating range.
- B. Gauges shall be provided with cocks and snubbers. Steam gauges shall be provided with pigtails.
- C. Face of dial shall identify units that the gauge is reading.

**1.03 GAUGE TEST PORTS**

- A. Provide temperature/pressure test ports adjacent to all gauges and DDC sensors. Where gauges and sensors are in the same thermal or hydraulic location, a single test port may be utilized.

**END OF SECTION 23 0515**





**SECTION 23 0529**  
**SUPPORTS, ANCHORS, CURBS, SEALS AND FLASHINGS**

**PART 1 GENERAL****1.01 PIPE HANGERS**

- A. All piping systems shall be supported with proper hangers for the service. Hangers and supports for insulated piping shall be provided with suitable insulation saddles or shields.

**1.02 SLEEVES AND PLATES**

- A. Provide sleeves around pipes passing through floors, walls, partitions, or structural members. Pipe openings drilled or cast in concrete wall panels do not require sleeve.
- B. Furnish and install trim plates on all pipe penetrations exposed to view. Plates shall be chromium plated brass escutcheons. Plates shall secure to pipe except where pipe penetrates floor it shall secure to sleeve.

**1.03 EQUIPMENT STANDS**

- A. Concrete and/or metal bases, foundations, brackets and stands for mechanical equipment shall be provided as required for proper support of mechanical equipment.

**1.04 HOUSEKEEPING PADS**

- A. Equipment housekeeping pads shall be reinforced concrete sized to suit the equipment. Concrete pads not in Division 23.

**1.05 SEALS AND CAULKING**

- A. Where pipes or ducts pass through walls they shall be completely sealed and isolated from the walls by the use of 1½ lb. density fiberglass blanket insulation around exterior of pipe or duct and plastic non-hardening caulking seals at both sides. In areas where water may occur at floor penetrations caulking shall be watertight.
- B. All utility openings entering building underground shall be thoroughly sealed using Link-Seal.

**1.06 FIRE WALL PENETRATIONS**

- A. All holes or voids created to extend mechanical systems through fire rated floors, ceilings and walls shall be sealed under Division 23 with an intumescent material with ICBO, BOCAI and SBCCI (NRB 243) approved ratings to 3 hours per ASTM E-814 (UL 1479).

**1.07 FLASHING**

- A. Counter flashing for all roof mounted mechanical equipment shall be provided under Division 23.
- B. All pipes passing through the roof shall be flashed at the roof with 4 lbs. sheet lead or other flashing specifically designed for use with the roofing system used.

**END OF SECTION 23 0529**



**SECTION 23 0548  
VIBRATION ISOLATION**

**PART 1 GENERAL**

**1.01 SCOPE**

- A. Furnish and install vibration isolation mountings for ductwork, fans, air handling units, pumps, and motorized equipment installed under this contract in accordance with the requirements outlined by the project acoustician in the acoustic design guidelines.

**1.02 PROJECT REQUIREMENTS**

- A. Penetration isolation of conduit and duct penetrations of walls, roofs, and floors.
- B. Sound attenuators
- C. Flexible duct connectors

**1.03 DESIGN CRITERIA**

- A. Mountings shall provide 98 % efficiency for all applications where equipment is not mounted on slabs at grade and 95 % for equipment installed on slabs on grade. Final selection shall be based on equipment as well as vibration.

**1.04 EQUIPMENT AND COIL CONNECTORS**

- A. Equipment and coil connectors shall be flexible stainless steel braided hose with carbon steel fittings.
- B. Provide flexible duct connections for any HVAC unit with a fan.

**END OF SECTION 23 0548**



**SECTION 23 0553  
MECHANICAL IDENTIFICATION**

**PART 1 GENERAL**

**1.01 MATERIAL AND EQUIPMENT IDENTIFICATION**

- A. Piping and Equipment
  - 1. Piping is to be labeled a minimum of every 20' and at changes in direction and near valves and tees with plastic bands identifying fluid and direction of flow. Also identify at branches, wall penetrations, and valves. Lettering to be readable from 20', fire sprinkler piping does not require identification.
- B. Ceiling Grid Markings
  - 1. The lay-in ceiling grid shall be marked with mechanically fastened engraved plastic plates to identify the location of all fans, terminal boxes, air handlers, or other mechanical equipment which is scheduled or identified by number and installed above the ceiling. The engraved identification is to match the identification on the contract documents.

**END OF SECTION 23 0553**



**SECTION 23 0700  
HVAC INSULATION**

**PART 1 GENERAL****1.01 SCOPE - DUCTWORK**

- A. Insulate all supply air ducts connected to equipment with cooling coils and not otherwise indicated to be internally lined that are inside the building envelope with duct wrap.
- B. Insulate ducts with duct liner where indicated on the plans.
- C. Insulate all supply and return ductwork outside the building envelope.
- D. Insulate outside air ductwork.
- E. Insulate ductwork with fire rated duct wrap when indicated on the drawings.

**1.02 SCOPE - PIPING**

- A. Insulate refrigerant suction and hot gas piping and fittings.

**1.03 SCOPE - EQUIPMENT**

- A. Insulate heating and cooling equipment including valves, pumps, tanks, traps, converters, etc.

**1.04 STANDARDS**

- A. Unless specified otherwise, insulation shall have been compositely tested for fire and smoke hazard ratings according to recognized standard testing methods and shall have ratings not exceeding flame spread 25, fuel contributed 50 and smoke developed 50.
- B. Agencies Standards:
  - 1. ASTM E-84
  - 2. NFPA 255
  - 3. UL 723

**1.05 MATERIAL - DUCTWORK**

- A. Inside the building
  - 1. 1½ inches thick flexible fiberglass duct wrap with all-purpose jacket.
  - 2. One inch thick, 1½ lb. density fiberglass duct liner, faced with black coated mat.
- B. Outside the building
  - 1. 3 inches thick flexible fiberglass duct wrap with all-purpose jacket and weather resistant protective finish.
- C. Outside Air Ductwork
  - 1. 3 inches thick flexible fiberglass duct wrap with all-purpose jacket for systems less than 2800 cfm.
  - 2. 4½ inches thick flexible fiberglass duct wrap with all-purpose jacket for systems greater than 2800 cfm.
- D. Fire Rated Duct Wrap
  - 1. UL listed fire barrier insulation system. UL listed as a 2 hour duct enclosure.

**1.06 MATERIAL - PIPING**

- A. Rigid, molded fiberglass with all-purpose jacket and pressure sensitive closure system.
- B. Insulated PVC fitting covers, equal to Zeston with "Hi-Lo" insulation inserts.

**1.07 REFRIGERANT PIPING**

- A. Flexible Foamed Plastic Pipe Insulation
  - 1. ½ inch thick for one inch outside diameter and smaller pipe.
  - 2. ¾ inch thick for 1 1/8 diameter and larger pipe.
  - 3. 1 inch thick for 2 1/8 inch outside diameter and larger pipe (two layers of ½ inch).
  - 4. Increase thickness ½ inch on piping exposed to outdoor air.
  - 5. Sheet or molded fittings as recommended by manufacturer. Thickness to match pipe insulation.

**1.08 MATERIAL - EQUIPMENT**

- A. Fiberglass boards or blankets with temperature limitations to match application.
- B. Reusable, fibrous glass, lace-up mat equal to Pittsburgh-Corning "Temp-Mat" shall be installed on valves and equipment requiring removable of insulation for service.

**END OF SECTION 23 0700**



**SECTION 23 0923**

**ENERGY MANAGEMENT AND DIRECT DIGITAL CONTROL SYSTEM**

**PART 1 GENERAL**

**1.01 SCOPE**

- A. Provide equipment, labor, materials, and services for complete automatic control system. System equipment and apparatus shall be a microprocessor based system designed for HVAC equipment. The control system shall have standalone capability and shall be capable of control point adjustment from field controller via a hand held terminal or from the remote operators' station.
- B. General Control System shall be manufactured by Siemens or Alerton as an extension to the existing campus wide EMCS. System shall connect to the Owner's existing operator terminal and include a complete graphic control package.
- C. VRF Control System shall be an extension of the existing Mitsubishi Control System.
- D. Control wiring and power wiring for control purposes shall be provided in this section in accordance with Division 26 and the National Electrical Code.
- E. Control diagrams and sequences of operation will be on the Construction Documents.

**1.02 BASIC MATERIALS**

- A. Valve and damper actuators shall be Belimo.
- B. Control Valves shall have stainless steel ball and stem.
- C. Dampers shall be Ruskin.

**END OF SECTION 23 0923**



**SECTION 23 0933  
VARIABLE FREQUENCY DRIVES**

**PART 1 GENERAL**

**1.01 SCOPE**

- A. Furnish and install microprocessor based Pulse Width Modulated adjustable frequency AC drives. Drives shall be UL labeled and accept inputs from the Energy Management Control system for control of speed for variable volume pumping and fan systems. Drives shall be complete with protection circuits.
- B. ABB series ACH 550 with BACnet interface.

**END OF SECTION 23 0933**



**SECTION 23 2300  
REFRIGERANT PIPING AND SPECIALTIES**

**PART 1 GENERAL**

**1.01 PIPING**

- A. Meet requirements of ASTM B280, "Specification for Seamless Copper Tube for Air Conditioning and Refrigeration Field Service."
- B. Pre-charged refrigerant line sets shall be manufacturer designed and approved and used only where specifically noted or specified.

**1.02 REFRIGERANT FITTINGS**

- A. Wrought copper with long radius elbows

**1.03 SUCTION LINE TRAPS**

- A. Manufactured standard one-piece traps

**1.04 BRAZING MATERIAL**

- A. Sil-Fos or Easy-Flo

**1.05 FILTER-DRIER**

- A. Filter drier shall be full line size replaceable core type with nonferrous casing and Schraeder type valve.

**1.06 SIGHT GLASS**

- A. Combination moisture and liquid indicator with protection cap.

**1.07 MANUAL SHUT-OFF VALVES**

- A. Ball valves designed for refrigeration service and full line size with cap seals.

**1.08 FLEXIBLE CONNECTORS**

- A. Provide in each liquid line and suction line at both condensing unit and evaporator on systems larger than five tons and as indicated on the plans.
- B. Connectors shall be for refrigerant service with bronze seamless corrugated hose and bronze braiding.

**END OF SECTION 23 2300**



**SECTION 23 3100  
DUCTWORK**

**PART 1 GENERAL**

**1.01 QUALITY CONTROL**

- A. Sheet metal ductwork and shall be constructed in strict accordance with the latest edition of SMACNA standards for HVAC duct construction and with the International Mechanical Code

**1.02 DUCTS**

- A. Fabricate of zinc-coated lock-forming quality steel sheets meeting requirements of ASTM A 527, "Sheet Steel Zinc-Coated (Galvanized) by the Hot-Dip Process, Lock Forming Quality", with Type G coating.

**1.03 MEDIUM VELOCITY DUCT AND FITTINGS**

- A. Medium velocity ductwork shall be defined as all supply ductwork downstream of the air handling unit supply fan to the connection at the inlet side of terminal boxes.
- B. Duct construction shall be suitable for pressures up to 6 inches WC.
- C. Round ductwork shall be spiral lockseam construction or single-rib construction.

**1.04 FLEXIBLE DUCT**

- A. Manufactured assembly consisting of inner lining bonded to spring steel helix wrapped with 1 inch thick fiberglass insulation and vapor barrier outer jacket.

**END OF SECTION 23 3100**





**SECTION 23 3300  
DUCTWORK ACCESSORIES**

**PART 1 GENERAL****1.01 VOLUME DAMPERS**

- A. Opposed Blade
  - 1. 16 gauge galvanized steel, opposed blade type with 3/8 inch pins and end bearings. Blades shall have 1/8 inch clearance all around.
  - 2. Damper shall operate within acoustical duct liner.
- B. Single Blade
  - 1. In accordance with SMACNA
  - 2. Up to 18 inches long: 20 gauge galvanized steel with 3/8 inch pins and quadrant.
  - 3. 19 to 48 inches long: 16 gauge galvanized steel with 1/2 inch rod pin and quadrant.
  - 4. Provide 1/8 inch clearance all around blade.
  - 5. Dampers over 12 inches high shall be opposed blade.
- C. In flexible branch ducts and round take-offs
  - 1. Sheet metal spin-in type round branch take-off complete with manual volume damper with locking quadrant.

**1.02 DAMPER REGULATORS**

- A. Dampers shall have locking quadrants

**1.03 AIR TURNS**

- A. Turning vanes shall be fabricated in accordance with SMACNA standards, single vane type.

**1.04 FIRE DAMPERS**

- A. Fabricated of galvanized steel with interlocking curtain blades.
- B. Assembly shall include 10 gauge, or UL labeled, wall sleeve and duct mounting collars to match ductwork.
- C. Blade configuration (in or out of the air stream) shall be as scheduled.
- D. Dampers shall equal or exceed rating scheduled.
- E. Fusible links, UL listed, shall separate at 165 °F.

**1.05 COMBINATION FIRE/SMOKE DAMPERS**

- A. Fabricate with multiple blades with 16 gauge galvanized steel frame and blades, oil-impregnated bronze or stainless steel sleeve bearings and plated steel axles, stainless steel jamb seals, plated steel concealed linkage, stainless steel closure spring, blade stops, and lock and actuator shaft.
- B. Operator shall be designed to hold damper open with power. Spring to close damper on loss of power. Operator shall be electric type suitable to operate on 120 VAC, 60 cycle. Operators shall be UL listed and labeled. Provide end switches to indicate damper position.
- C. Provide factory sleeve for each damper. Install damper operator on exterior of sleeve and link to damper operating shaft.
- D. Fusible link, UL listed, shall separate at 165 °F.

**1.06 FLEXIBLE CONNECTORS**

- A. Provide flexible duct connectors on all ductwork connected to air moving equipment except curb mounted roof exhausters, ceiling exhaust fans and internally isolated air handling equipment with integral flex connectors.
- B. Flexible duct connectors shall be heavy glass fabric, double coated with neoprene.

**END OF SECTION 23 3300**



**SECTION 23 3400  
HVAC FANS**

**PART 1 GENERAL**

**1.01 CENTRIFUGAL FANS**

- A. Backward inclined, forward curved, and airfoil or radial in accordance with schedules.
- B. Housing: Heavy gauge steel constructed in accordance with AMCA for scheduled fan class, adequately braced, and designed for minimum turbulence.

**1.02 ACCESSORIES**

- A. Provide weather cover for motor and drive on fans installed outdoors.

**1.03 ROOF EXHAUSTERS**

- A. Centrifugal fan unit, V-belt or direct drive, in accordance with schedule.
- B. Housing shall be aluminum or galvanized steel prefinished in baked-on enamel. Upblast units shall include drainage provisions.
- C. Base shall have continuous gasket to fit curb and provide counter flashing.
- D. Curbs shall be all welded, minimum 8 inches high with nailer strip and internal insulation.

**1.04 CEILING FANS**

- A. Centrifugal direct drive fan unit
- B. Housing shall be galvanized steel, internally lined, resiliently mounted motors, and gravity backdraft damper in discharge.
- C. Grille shall be steel or aluminum with baked white enamel finish.

**END OF SECTION 23 3400**



**SECTION 23 3500  
SOUND ATTENUATORS**

**PART 1 GENERAL**

**1.01 CASING**

- A. Outer casing to be minimum 22 gauge galvanized steel. All seams welded or lock formed and filled with mastic and shall be airtight to 10 inches WG pressure differential.
- B. Interior partitions to be minimum 24 gauge galvanized steel perforated to maximum 18 % of area.

**1.02 FILLER**

- A. Filler material shall be acoustically absorptive made from inorganic material. Material shall be compressed to eliminate voids and prevent settling. Material shall be vermin and moisture proof.
- B. Filler material not to exceed flame spread of 15, fuel contribution 15 and smoke development 0 when tested in accordance with ASTM E84, NFPA 255 or UL-723.

**END OF SECTION 23 3500**



**SECTION 23 3600  
AIR TERMINAL UNITS**

**PART 1 GENERAL**

**1.01 CONTROL ACTUATORS**

- A. Actuators shall be furnished under Section 23 09 23 and be installed by terminal manufacturer. Mounting costs to be borne by terminal box manufacturer and be included in cost of terminal unit.

**1.02 CASING**

- A. Galvanized steel, acoustically lined.

**1.03 VOLUME REGULATOR**

- A. Volume regulator shall provide constant delivery air control within 5 % of rated flow down to 25 % of unit rated CFM, independent of system static pressure.

**1.04 CALIBRATION**

- A. Terminal units shall be factory calibrated and set (field adjustable) to provide scheduled minimum and maximum air flows.

**1.05 COILS**

- A. Electric resistance type. Coils shall match capacity scheduled with connections located in accordance with drawings.

**END OF SECTION 23 3600**





**SECTION 23 3700  
AIR OUTLETS AND INLETS**

**PART 1 GENERAL****1.01 RETURN OR EXHAUST REGISTERS/GRILLES**

- A. Fixed deflection bar or curved blade with spacing and position as scheduled.
- B. Fabricate 1¼ inch margin frame with countersunk screw mounting and gasket.
- C. Fabricate of steel or aluminum with factory off-white baked enamel finish.

**1.02 SIDEWALL SUPPLY REGISTERS/GRILLES**

- A. Streamlined and individually adjustable blades, depth of which exceeds ¾ inch maximum spacing with spring or other device to set blades, double deflection. Front vanes to be in dimension scheduled.
- B. Fabricate 1¼ inch margin frame with countersunk screw mounting and gasket.
- C. Fabricate of steel or aluminum extrusions, with factory baked enamel finish.
- D. Provide integral, gang-operated opposed blade dampers with removable key operator, operable from face.

**1.03 MODULAR DIFFUSERS**

- A. Square or rectangular with minimum 4 individual cores. Cores shall be spring loaded and be removable without tools. Cores to be designed to alter direction of throw.
- B. Diffuser shall be louvered face design with extruded vanes.

**1.04 CEILING SLOT DIFFUSER**

- A. Continuous slots of number and spacing scheduled with adjustable vanes for left, right or vertical discharge.
- B. Fabricate of aluminum extrusions with off-white baked enamel finish.
- C. Fabricate margin frame to match schedule for mounting.
- D. Provide end caps to seal ends of diffusers and alignment strips when sections are to be joined.

**1.05 PERFORATED FACE**

- A. Perforated face with modular adjustable pattern controllers behind the face.
- B. Perforated panel shall be removable with concealed hangers and spring retainer.
- C. Furnish in baked enamel off white finish.

**1.06 SPECIALTY LAB DIFFUSERS/GRILLES**

- A. As noted on the drawings.

**END OF SECTION 23 3700**



**SECTION 23 4000**  
**AIR CLEANING DEVICES**

**PART 1 GENERAL****1.01 DISPOSABLE PANEL FILTERS, EXTENDED AREA**

- A. Media: Pleated, non-woven, reinforced cotton fabric, supported and bonded to welded wire grid, and enclosed in cardboard frame.
- B. Panel sizes as scheduled, minimum thickness is 2 inches. Provide 4 inches thick where indicated.
- C. 25 to 30 % dust spot efficiency, 90 to 92 % weight arrestance, 500 FPM face velocity, 0.30 inch WG initial resistance, 1.0 inch WG recommended final resistance.
- D. Design Basis: Farr 30/30

**1.02 FILTER GAUGES**

- A. Direct reading dial, minimum 3½ inches diameter, diaphragm activated dial in metal case, vent valves, front calibration adjustment, and adjustable signal flag.
- B. Range shall be 0 to 2 inches standard with 2 % full scale accuracy. Range of units furnished for high efficiency filters shall exceed recommended change out pressure of specified filter.
- C. Provide static pressure tips with integral compression fittings.

**1.03 DISPOSABLE PANEL HIGH EFFICIENCY FILTERS**

- A. Media: High density glass fibers laminated to synthetic backing to form lofted filter media.
- B. Media supported by contour stabilizers on entering and exit sides for tapered radial pleat configuration.
- C. Enclosing Frame: Galvanized steel with periphery of filter media continuously bonded to inside of enclosing frame and protective diagonal members on entering and leaving air sides of frame.
- D. Rating: 80 to 85 % efficiency ASHRAE 52-76 test standard. 98 % arrestance rating, initial resistance, 0.50 inch WG at 500 FPM, 1.0 inch recommended final resistance.
  - 1. Farr Riga-Flo 100

**END OF SECTION 23 4000**



**SECTION 23 6201  
VARIABLE REFRIGERANT FLOW SYSTEMS**

**PART 1 GENERAL**

**1.01 MANUFACTURER**

- A. Mitsubishi to match existing VRF System.

**1.02 INDOOR UNITS**

- A. Ducted, concealed type, in-ceiling cassette, or high wall ductless, as noted on the plans.  
Include filter and condensate pumps.

**1.03 OUTDOOR UNITS**

- A. Heat pump heating and cooling or cooling only, as noted on plans.

**1.04 MANUFACTURER REQUIREMENTS**

- A. Manufacturer shall select branch controllers, size refrigerant piping and provide a fully functional control system.

**END OF SECTION 23 6201**



**SECTION 23 7413  
OUTDOOR, CENTRAL STATION. AIR HANDLING UNITS**

**PART 1 GENERAL**

**1.01 SCOPE**

- A. Rooftop units shall be packaged gas-fired heating and electric cooling units and shall include fans, coils, filter, flat plate ventilation air heat exchanger and mixing box sections as scheduled.

**1.02 CASING**

- A. Double wall construction with 2 inches thick insulation and one inch thick, insulated floor.
- B. Provide hinged access doors with lockable handles for complete servicing and maintenance requirements.

**1.03 FANS**

- A. Type and configuration scheduled
  - 1. Fabricate plug fans without volute housing
  - 2. Statically and dynamically balanced
  - 3. Direct drive, vibration-isolated, quiet condenser fans

**1.04 INTERNALLY ISOLATED UNITS**

- A. Fan and motor mounted on common base with base mounted on vibration isolators.
- B. Flexible connection between fan and casing.

**1.05 COIL SECTIONS**

- A. Copper tubing, aluminum fins with capacities scheduled on the drawings.

**1.06 FILTER SECTIONS**

- A. Standard casing modules as scheduled. Refer to Section 23 40 00.

**1.07 MIXING BOX**

- A. With low leak dampers when dampers are scheduled with mixing box.

**1.08 VENTILATION AIR HEAT EXCHANGER**

- A. Heat exchanger shall be specially constructed, factory-installed and controlled high performance type designed to match equipment for a completed package.

**END OF SECTION 23 7413**





**SECTION 23 8310  
TERMINAL HEAT TRANSFER UNITS**

**PART 1 GENERAL**

**1.01 ELECTRIC WALL HEATERS**

- A. Electric resistance, fan forced wall heaters with integral thermostat to supplement heating, where required.

**1.02 DUCTLESS SPLIT SYSTEM**

- A. High wall, ductless split system for supplemental cooling with matched outdoor unit. Provide wall thermostat for control.
  - 1. Manufacturer – Mitsubishi.

**END OF SECTION 23 8310**



**SECTION 26 0101  
BASIC ELECTRICAL REQUIREMENTS**

**PART 1 GENERAL****1.01 CONDITIONS AND REQUIREMENTS**

- A. Refer to instructions to bidders, general conditions, supplementary general conditions, and Division 1 of these specifications that govern work under Division 26. Refer to other sections of these specifications for additional related requirements.

**1.02 SCOPE OF WORK**

- A. The work covered by the Electrical Section (Division 26) of the specifications shall include:
1. Furnishing all materials and supplying all labor, equipment and services to install the electrical systems as shown on the accompanying drawings and specified herein.
  2. Testing and adjusting of the completed electrical systems in the manner described herein.

**1.03 CODES, PERMITS AND FEES**

- A. Electrical work shall be in complete accordance with the latest revised edition of the following:
1. National Electrical Code
  2. Uniform Building Code
  3. Uniform Mechanical Code
  4. Uniform Fire Code
  5. Americans with Disabilities Act
  6. Regulations of the State Fire Marshal
  7. Regulations of the State Board of Fire Underwriters
  8. Applicable sections of other State and local codes
- B. In case of differences between building codes, state laws, local ordinances, utility company regulations, and Contract Documents, the most stringent shall govern. Promptly notify Owner's Representative in writing of such differences.
- C. The Contractor, at their expense, shall obtain permits and inspections required for the electrical work on this project. Inspection certificates shall be included in the Operation and Maintenance Manuals. Deliver copies thereof to the Architect prior to final acceptance of the work.
- D. Contractor shall pay all costs levied by utility companies and/or governing agencies associated with electrical service, telephone service, and cable TV service connections and include these costs within their bid. This shall include but not limited to tap fees, service mains, meter and vault charges, etc.
- E. Comply with serving utility regulations.

**1.04 INTENT AND INTERPRETATIONS**

- A. It is the intent of these specifications and the accompanying drawings to result in a complete electrical installation in complete accordance with all applicable codes and ordinances.
- B. The drawings and specifications are intended to supplement each other and any details contained in one and not the other shall be included as if contained in both. Items not specifically mentioned in the specifications or noted on the drawings, but which are necessary to properly complete the installation of the indicated systems or to render the systems operational, shall be provided, unless specifically excluded.
- C. In the event that any discrepancies of any kind exist, or that required items or details have been omitted, the Contractor shall notify the Architect in writing of such discrepancy or omission at least five (5) days prior to bid date. Failure to do so shall be construed as the willingness of the Contractor to supply all necessary materials and labor required for the proper completion of this work.

**1.05 DEFINITIONS**

- A. The term "The Contractor", when used in Division 26 of the specifications, shall be construed to mean the Contractor for the electrical work.

- B. The term “Electrical Systems Installer”, where used in Division 26 of the specifications, refers to the firm, licensed by the State to perform electrical installation, which is responsible for immediate supervision of electrical work on the project.
- C. The word “provide”, where used in this specification and on the accompanying drawings, shall mean furnish and install.

**1.06 DRAWINGS**

- A. The Electrical Drawings shall serve as the working drawings for the electrical work, but the Architectural Drawings shall take precedence over the Electrical Drawings if any dimensional discrepancies exist. The Electrical Systems Installer shall review the plans for the work of the other trades and shall adjust their work to conform to all conditions indicated thereon.
- B. Work covered under Division 26 has been indicated on the drawings in locations that should allow installation without interfering with the work of other trades; however, exact finish locations have not been indicated. Therefore, locations of all work and equipment shall be verified to avoid interferences, preserve headroom, provide access for maintenance and keep openings and passageways clear. Changes shall be made in locations of equipment and materials as required to accomplish these purposes without additional claims or charges by the Contractor.
- C. The locations of existing concealed lines and connection points have been indicated as closely as possible from available information. The Contractor shall assume that such connection points are within a 10 foot radius of the indicated location. Where connection points are not within this radius, the Contractor shall contact the Architect for a decision before proceeding or may proceed at their own expense.
- D. At the beginning of the work, the Contractor shall set aside one complete set of the drawings which shall be maintained as a complete Record Drawings set. The Record Drawings set shall include one set of drawings for the facility conduit plan prepared by this Contractor as described in paragraph 2.04 below. Notations shall be done in a neat and legible manner as specified in Division 01 and in accordance with the Architect’s instructions.
  - 1. The record drawings shall be updated daily by the foreman to show every change from the original drawings and the exact locations, sizes and kinds of equipment. This set of drawings shall not be used for any other purpose and shall be maintained at the job site and available for review at any time.
  - 2. Record drawings shall indicate actual size of electrical equipment routing of major raceway systems and location of control devices.
  - 3. The actual location and elevation of all buried lines, boxes, monuments, stub-outs and other provisions for future connection shall be shown on the record drawings and shall be referenced to the building lines or approved bench marks.
  - 4. Upon completion of the job, the Contractor shall deliver the record drawings marked-up to the Architect.
- E. By the act of submitting a bid, the Contractor shall be deemed to have:
  - 1. Examined the site and familiarize themselves with the conditions affecting the work. No additional allowance shall be granted because of lack of knowledge of such conditions.
  - 2. Verify all measurements at the building and acquaint themselves with the existing conditions before submitting their bid proposal.
  - 3. Examined all architectural, structural, mechanical and other applicable drawings.
  - 4. Become familiar with the electrical drawings and specifications.
  - 5. Developed an understanding of the electrical system requirements.
  - 6. Discussed the project with the Electrical System Installer and determine that he can successfully execute the electrical work.
  - 7. Accepted such conditions and included allowances for them in their bid.

**1.07 ELECTRICAL COST BREAKDOWN**

- A. The Contractor shall furnish to the Owner’s Representative a breakdown of the electrical construction cost within thirty (30) days of notice to proceed. The breakdown shall be in general conformance with the following:
  - 1. Bonds, Permits, Fees

2. Cartage, Rentals, Shack
3. Supervision
4. Demolition
5. Branch Circuit Conduit and Wire
6. Branch Circuit Labor
7. Devices and Plates
8. Trim Labor
9. Lighting Materials
10. Lighting Labor
11. Lighting Control Materials
12. Lighting Control Labor
13. Equipment Connection Labor
14. Low Voltage Pathway Material
15. Low Voltage Pathway Labor

**1.08 TEMPORARY ELECTRICAL SERVICES**

- A. Refer to Section 01 29 00

**1.09 PAYMENT REQUESTS**

- A. Payment requests for materials and equipment will not be reviewed or approved until shop drawings have been received and approved.

**1.10 GUARANTEE**

- A. The electrical equipment and installation shall be guaranteed for a period of one (1) year from date of acceptance unless an individual item or specification is otherwise noted as longer. The Contractor shall make good at their own expense all defects in their work, and/or equipment furnished by them, which shall develop at any time during the one year guarantee period and shall stand any expense of cutting and patching and repairing made necessary by their corrections of unsatisfactory work or equipment operation.

**1.11 ALTERNATES**

- A. See Section 01 23 00 for a list of alternates to bid for this project. Contractor shall include cost of their bid for complete working electrical system as described in the alternates and shown on the drawings.

**PART 2 PRODUCTS**

**2.01 MATERIALS AND EQUIPMENT**

- A. Materials used under this Contract, unless specifically noted otherwise shall be delivered to the site new, in their original unbroken packages and shall be of the best quality of their respective kind and shall conform to the latest Standard Specifications of the American Society for Testing Materials, National Electrical Manufacturers' Association, National Board of Fire Underwriters or other appropriate agency. Standard items shall bear the stamp indicating listing by Underwriter's Laboratories, Inc. when such listing is available. Custom-designed items shall be fabricated of UL approved materials.
- B. Throughout these specifications various materials, equipment, apparatus, etc., are specified by manufacturer, brand name, type or catalog number. Such designations are to establish standards of desired quality and construction and shall be the basis of the bid.
- C. Substitutions will be allowed only as herein provided. No substitutions will be permitted without the Architect's written acceptance. Refer to Division 1 of these specifications for additional requirements.
1. All prior acceptance submittals shall be accompanied by a transmittal letter indicating date, project name, product description/type, and deviations from contract documents if any.
  2. Subject to the Engineer's discretions certain items may be considered for substitution only after samples have been submitted for review.

- D. Contractors wishing to bid on equipment other than that listed shall obtain prior acceptance of same. Unless prior acceptance (By Addendum) is issued to all bidders, the Contractor will be held to furnish all items exactly as scheduled and/or specified.
- E. Unauthorized product substitution will be removed from the job site and replaced with the specified item at the Contractor's expense.

**2.02 EQUIPMENT/MATERIAL SUBSTITUTIONS**

- A. Throughout these specifications and drawings, various materials, equipment, apparatus, etc., are specified or scheduled by manufacturer, brand name, type or catalog number. Such designation is to establish standards of desired quality and construction and shall be the basis of design and the bid.
- B. Substitutions will not be permitted without written approval
- C. Where two or more manufacturer designations are listed in these specifications, choice will be optional with the Contractor except that where more than one manufacturer is listed, and only one manufacturer's catalog number is specified or only one manufacturer scheduled on the drawings (basis of design) that standard of quality, dimensional characteristics, capacities, and construction shall be maintained by materials or equipment supplied by the other manufacturer(s).
- D. If the Division 26 Contractor uses manufacturers other than the basis of design, the Contractor shall be responsible for:
  - 1. Insuring the substituted item will fit the available space while allowing proper maintenance access.
  - 2. Any changes required by other Contractors caused by the substituted equipment.
- E. In the event other than specified equipment is used and will not fit job site conditions, this Contractor assumes responsibility for replacement with items indicated as the basis of design.
- F. See specifications Section(s) 26 01 01 for product prior approval requirements.

**2.03 OWNER FURNISHED EQUIPMENT AND MATERIALS**

- A. The Contractor shall accept and become responsible for all Owner furnished equipment and materials. Inspect all equipment and materials to determine suitability for installation. Immediately notify the Owner of any defects or deficiencies. Failure to so notify the Owner shall mean that the Contractor warrants that all equipment and materials are of the proper quantity, design and are free from all defects. Properly store all equipment and materials.

**2.04 SUBMITTALS FOR REVIEW**

- A. Shop Drawings
  - 1. Refer to Section 01 33 00.
  - 2. Shop drawings, catalog information and material schedules shall be submitted for approval on all materials and equipment prior to ordering. This applies to all specified material and equipment in Division 26.
  - 3. Provide specific wiring diagrams for all equipment requiring electrical or control wiring. Upon approval, copies of these diagrams shall be forwarded to pertinent contractors.
  - 4. Prior to construction, a facility conduit plan shall be submitted for review showing the routing of all conduits and the mounting of the conduits, (e.g. below grade, concealed, surface mounted, etc.), the locations of all junction boxes, and the devices or equipment the conduits where the conduits are terminated. Shop drawing submittal shall be the same size as the contract Shop drawing shall be generated using a computer aided drafting program; as-built drawings shall be delivered to the Architect. CAD floorplans of the contract documents will be provided by the Owner's representative on CD-ROM to the Electrical Contractor in .DWG format only after completion of an "Consent for the Release of Electronic Files" (forwarded by the Owner's representative on request).
- B. Furnish complete shop drawing/catalog data for equipment and materials to be used in the work for review. Allow sufficient time for developing shop drawings, processing and review time so that the installation will not be delayed.

- C. Shop drawings shall be reviewed, approved and stamped by Contractor prior to submitting to Owner's Representative for approval. Submittals without such approval will be returned without review.
- D. Submit data in accordance with Section 01 33 00 and in accordance with this section. Data shall be black and white, on 8½×11 inch or 11×17 inch, single, one-sided sheets suitable for copying. Diagrams and drawings larger than 8½×11inch shall be accordion folded to fit in a three ring binder. Drawings and catalog data must be clean, neat copies. FAX material or other poor quality copies will not be acceptable.
- E. Submittals shall be bound in a black 3-ring binder with the project name on the cover. Provide index tabs for each specification section in same order and using same name as appears in the Specifications.
- F. Where choices of options and accessories are available or specified, provide written description of what is to be furnished. If necessary, list page numbers where submitted items are described.
- G. Underline applicable data.
- H. If material or equipment is not as specified or submittal is not complete, it will be rejected. Only complete submittal including all applicable specification sections will be reviewed.
- I. Catalog data or shop drawings for equipment that are noted as being reviewed shall not supersede Contract Documents.
- J. Review comments shall not relieve Contractor from responsibility for deviations from Contract Documents unless attention has been called to such deviations in writing at time of submission, nor shall they relieve this Contractor from responsibility for errors in items submitted.
- K. Check work described by catalog data with Contract Documents for deviations and errors.
- L. Submit four (4) copies of each shop drawing. The Engineer will retain one stamped copy, one will be provided to the Architect and a two stamped and reviewed copies will be returned to the Contractor. The Contractor shall be responsible for distribution of required number of reviewed copies to parties other than the Owner's Representative(s).

**PART 3 EXECUTION****3.01 GENERAL**

- A. Workmanship shall be of first quality throughout and shall be in complete accordance with the applicable codes.

**3.02 SCHEDULING**

- A. This Contractor is advised that the work on this project is phased to suit the requirements of the Owner. During construction, it may be necessary to make temporary connections or installations to accommodate the phased nature of the work. Some work may need to be installed and then reinstalled in order to satisfy the operational requirements of the Owner. Power changeover for existing loads shall be made in the smallest possible increments with branch circuit by branch circuit re-connection required wherever possible.
  - 1. Refer to Specification Section 01 31 00 for additional project scheduling / phasing requirements.
- B. The controlling issue governing the work described under Division 26 shall be:  
DE-ENERGIZING OF ANY FEEDER, SWITCHBOARD, PANEL, BRANCH CIRCUIT OR OTHER EXISTING ELECTRICAL DEVICE OR ITEM SHALL BE AFFECTED ONLY AFTER NOTIFICATION AND SCHEDULING WITH THE OWNER'S PROJECT COORDINATOR.
- C. The Contractor shall prepare written proposed schedules for all systems, feeders, panels and branch circuits to be de-energized and submit same to the Owner's Project Coordinator fourteen (14) days in advance of the first schedule item for acceptance. Schedules shall include at least the following:
  - 1. Specific load to be de-energized
  - 2. Proposed date and time to be de-energized and re-energized

- 3. Backup plan should an emergency occur during the outage period (for critical loads)
- D. Schedules proposed by the Contractor are subject to adjustment by the Owner.
- E. The Contractor is advised that the above notification and scheduling requirement may necessitate rescheduling, partial completion and re-connection, overtime work at night or on weekends or delay of the work. Contractor costs incurred due to the above shall be included in the original bid price and shall not be the cause for additional claims or charges to the Owner.

### 3.03 COORDINATION, INSERTS AND OPENINGS

- A. This installation requires extensive interfacing. It is the responsibility of the Contractor to clarify any questions or discrepancies with the Architect and to ascertain and verify installation conditions about which he is unsure prior to commencing work. Further, during the entire construction period, coordinate, verify and confirm that related work by other trades is done in a manner that will not complicate or compound the electrical systems work.
- B. Locations of devices, outlets, fixtures, equipment, etc. as shown on the drawings are approximate unless dimensioned. Exact locations of such items shall be determined by the Architect's representative or secured from special details and drawings. The Contractor shall insure that no switches or other electric control devices are mounted such that they are trapped behind opened doors or otherwise rendered inaccessible.
- C. Obtain rough-in and connection dimensions as required for power, control and grounding connections to equipment items that require electrical connection.
- D. Verify the physical dimensions of each item of electrical equipment to fit the available space and promptly notify the Architect/Engineer prior to roughing-in, if conflicts appear. Coordination of equipment to the available space and to the access routes through the construction shall be the Contractor's responsibility.
- E. Provide inserts for hangers, brackets, clamps, etc. as required to support boxes, raceways, cables, fixtures, equipment, etc. Coordinate location and routing to avoid interference with work of other trades. Method of insert placement shall suit the type of construction into which the inserts are to be installed.
- F. Furnish and install sleeves and block-outs required for openings in the structure needed to install the electrical work. The responsibility for proper placement of sleeves and block-outs shall be with the Contractor.
- G. Openings for electrical work shall be carefully caulked or grouted as required. Spare conduits shall be tightly capped.
- H. All roof and exterior wall penetrations shall be flashed and counter-flashed watertight. Caulking shall be equal to General Electric silicone construction sealants.

### 3.04 CUTTING AND PATCHING

- A. Cutting of concrete or other building materials shall be avoided where possible. The Contractor shall have a workman present at the pouring of concrete and at the building of any masonry that contains electrical work.
- B. All cutting and patching of new and existing construction required for the installation of systems and equipment specified in Division 26 shall be the responsibility of the Division 26 Contractor. All cutting shall be accomplished with masonry saws, drills or similar equipment to provide neat uniform openings.
- C. Patch and repair walls, floors, ceilings, and roof with materials of same quality and appearance as adjacent surfaces unless otherwise shown. Surface finishes shall exactly match existing finishes of same materials. All patching shall meet the approval of the Owner's Representative.
- D. All cutting and patching made necessary to repair defective equipment, defective workmanship or by neglect of this Contractor to properly anticipate their requirements shall be included in Division 26.
- E. Cut carefully to minimize necessity for repairs to existing work. Do not cut beams, columns, or trusses or other structural members without the Owner Representative's written approval.



- F. Cutting, patching, repairing, and replacing pavement, sidewalks, roads, landscaping and curbs to permit installation of work specified or indicated under this Division is responsibility of Division 26.

### 3.05 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. See Section 26 01 01 for additional requirements.
- B. Follow manufacturer's directions in delivery, storage, protection, and installation of equipment and materials.
- C. Promptly notify Owner's Representative in writing of conflicts between requirements of Contract Documents and manufacturer's directions and obtain written instructions from Owner's Representative before proceeding with work. Contractor shall bear expenses arising from correcting deficiencies of work that do not comply with manufacturer's directions or such written instructions from Owner's Representative.
- D. Deliver equipment and material to site and tightly cover and protect against dirt, water, and chemical or mechanical injury but have readily accessible for inspection. Store items subject to moisture damage (such as controls) in a dry, heated space.
- E. Notify Owner of equipment delivery dates, twenty-four (24) hours in advance of delivery.
- F. The Contractor shall be responsible for protection of equipment furnished in this Division from vandalism and weather during all phases of construction. Damaged equipment shall be restored to like new condition or replaced at the Contractor's expense.
- G. Any factory painted equipment scratched or marred during shipment or construction shall be restored to original "new" condition. This includes complete repainting if necessary to provide exact paint match.

### 3.06 PROTECTION AND CLEANING

- A. The Contractor shall provide adequate means for protection and shall fully protect all material and equipment against damage from any causes during the progress of the work and until approval by the Architect.
- B. All material and equipment, both when in storage and during construction, shall be covered in such a manner that no finished surfaces will be damaged, marred or splattered with plaster or paint, and all electrical conductors, buses and connections, electronic components and moving parts shall be kept clean and dry.
- C. All damaged material or equipment, including face plates of panels and switchboard sections, shall be replaced or refinished by the manufacturer at no additional expense to the Owner.
- D. During the progress of the work, the Contractor shall clean up after their workers and shall leave the premises and all portions of the building in which he is working free from their debris.
- E. Provide and maintain suitable barriers, protective devices, lights and warning signs where required for protection of the public and employees about the building and site.

### 3.07 PAINTING

- A. All necessary painting shall be included in the Division 26 in order to complete this project. Painting for this project shall include:
  - 1. All exposed surface mounted conduit and fittings installed under this project shall be painted to match the existing ceiling wall finish.
  - 2. All existing ceiling / wall surfaces that are damaged during construction shall be patched and painted to match the existing ceiling / wall finish.
- B. Where exposed electrical raceways and equipment are to be painted, schedule work to insure that such electrical items are installed prior to painting or that items installed afterward are painted later to match the original finishes.
- C. Protect latches on panelboard covers, wiring devices, device faceplates, clocks, and other electrical devices against accidental painting.
- D. Protect nameplates and labels on electrical equipment from being obscured by paint.

**3.08 VISITING THE PROJECT SITE**

- A. Examine premises and understand the conditions that may affect performance of work of this Division before submitting proposals for this work.
- B. No subsequent allowance for time or money will be considered for any consequence related to failure to examine existing site conditions.

**3.09 TESTS**

- A. See individual specification sections for Testing Requirements.

**END OF SECTION 26 0101**

**SECTION 26 0102  
PROJECT FINALIZATION**

**PART 1 GENERAL****1.01 SECTION INCLUDES**

- A. Operation and Maintenance Manual
- B. Operation and Maintenance Training/Startup
- C. Spare Parts/Maintenance Materials
- D. Warranties
- E. Final Cleaning
- F. Record Drawings
- G. Punch List Procedures
- H. Maintenance Services

**1.02 RELATED SECTIONS**

- A. Refer to Section 01 77 00 - Contract Closeout
- B. Section 26 01 01 - Basic Electrical Requirements

**1.03 OPERATION AND MAINTENANCE MANUAL**

- A. Bind Operation and Maintenance Manual for Electrical Systems in a black three-post, hard-backed binder imprinted lettering with the job title, date, Engineer, Architect and Contractor names.
  - 1. Provide a master index at the beginning of Manual showing items included. Use plastic index tabs for end section of the Manual.
  - 2. First section shall consist of name, address, and phone number of Architect, Mechanical and Electrical Engineers, General Contractor, and Electrical Contractors.
  - 3. Provide a separate section for each section of the specifications. Provide index for each section listing equipment included.
- B. Product literature, catalog cuts, etc. shall be clean copies. FAX or other poor quality prints will not be acceptable.
- C. Submit one (1) copy of Operation and Maintenance Manual to Owner's Representative for review. After this review and final approval of the manuals, prepare two (2) copies of approved manuals for use during the instruction period. Following instruction period, turn over both copies to the Owner.
- D. In general, the following shall be included in the Operation and Maintenance Manual for each electrical equipment item:
  - 1. List of electrical equipment used indicating name, model, serial number, and name plate data of each item together with number and name associated with each system item as indicated on the drawings.
  - 2. Manufacturer's maintenance instructions: Instructions shall include name of vendor, installation instructions, parts numbers and lists, operation instructions of equipment, and maintenance and lubrication instructions.
  - 3. Step-by-step procedure to follow in putting each piece of electrical equipment into operation
  - 4. Wiring diagram for particular equipment item
  - 5. Refer to individual specification sections for additional information required to be incorporated into the Operation and Maintenance Manual.
- E. Include the following additional items in the O&M Manual:
  - 1. Summary list of spare equipment parts furnished under this contract
  - 2. Test Records of feeders, transformers, circuit breakers, telephone/data wiring, etc.
  - 3. Signed checklist of Instruction Period
  - 4. Copies of specific product Warranties.
  - 5. Electrical identification schedules

6. Copies of manual describing specific maintenance services that will be furnished

**1.04 OPERATION AND MAINTENANCE TRAINING/STARTUP**

- A. Upon completion of the work, the Contractor shall assemble the Electrical Systems Installer and any subcontractors together with factory representatives for system start-up and demonstration. These people shall assist in start-up and check out each system and remain at the site until the total electrical system operation is acceptable and understood by the Owner's designated maintenance and/or operation personnel. The Electrical System Installer or a subcontractor or factory representative designated by them shall also give personal instructions on operation and maintenance of the electrical equipment to the Owner's maintenance and/or operation personnel.
- B. Provide a videotape of the training sessions conducted and furnish copies of the tape to the Owner and Engineer. A professional shall tape training sessions to provide a quality video that the Owner can use to train future employees or refresh their operating personnel in the system operation and maintenance. Use VHS format.
- C. To prove acceptance of operation and instruction by the Owner's representative, the Contractor shall prepare a written statement of approval detailing it for their signature. The statement shall read as follows:

"I, the Contractor, together with the Electrical Systems Installer and the associated factory representatives, have started each system and the total electrical system, and have demonstrated their normal operation to the Owner's representative and have instructed them in the operation and maintenance thereof."

\_\_\_\_\_  
Owner's Representative

\_\_\_\_\_  
Contractor

Electrical System	Demonstrated By/Witnessed By	Instruction Time Allotment	Date
Demonstrate Operation and Instruct Owner in Maintenance of General Electrical System & Motor Controls	/	8.0 hrs	
Written Guarantee Received	/		
O&M Manuals Received	/		
As-Built Drawings Received	/		

**1.05 SPARE PARTS/MAINTENANCE MATERIALS**

- A. Provide summarized list of spare parts that are to be furnished. Incorporate into O&M Manual.
- B. Refer to individual specification sections for spare parts to be furnished under this contract.
- C. Turn spare parts and materials over to Owner.

**1.06 WARRANTIES/GUARANTEES**

- A. The Contractor shall guarantee all work to be free from defects in material and workmanship for a period of one (1) year. See General Conditions for beginning of guarantee period. The Contractor shall make good at their own expense all defects in their work and/or equipment furnished by them, which shall develop at any time during the one (1) year guarantee period and shall stand any expense of cutting and patching and repairing made necessary to correct unsatisfactory work or equipment operation.
- B. Manufacturer's warrantee certificates shall be included in the Operation & Maintenance Manuals for equipment that is warranted by the manufacturer for a period greater than one year.

**1.07 CLEAN-UP**

- A. Clean up all equipment, materials, cartons and other debris that is a direct result of the installation of equipment under this contract.

- B. Clean exposed conduits, equipment, and fixtures. Repair damaged finishes and leave everything in working order.
- C. Remove stickers from fixtures and electrical equipment.

**1.08 RECORD DRAWINGS**

- A. Record differences between electrical work as installed and as shown in Contract Documents, on a set of prints of electrical drawings to be furnished by Owner's Representative. Return these prints to Owner's Representative at completion of Project. Notations made on drawings shall be neat and legible. These drawings shall not be used for any other purposes.
- B. Refer to individual specification sections for additional requirements.

**1.09 PUNCH LIST PROCEDURES**

- A. The Contractor shall notify the Owner's Representative in writing when the project is ready for punch lists. After punch lists are complete, written notice must be forwarded to the Owner's Representative requesting final checkout. Any additional trips by the Engineer to the site for punch list verification that become necessary due to items on previous punch lists that have not been completed at the time of the final checkout will be billed to the Contractor at normal rate plus travel expenses.
- B. At the time of punch list and final project checkout, the project foreman shall accompany the Engineer and remove coverplates, panel covers and other access panels to allow complete review of the entire electrical systems.

**1.10 MAINTENANCE SERVICES**

- A. Provide separate manual describing specific maintenance services to be provided as required under specific specification sections.

**END OF SECTION 26 0102**



**SECTION 26 0160  
ELECTRICAL DEMOLITION FOR REMODELING**

**PART 1 GENERAL****1.01 SECTION INCLUDES**

- A. Phased remodel construction in existing occupied buildings
- B. Additions to existing occupied buildings
- C. Asbestos control within existing buildings
- D. Demolition and salvage within existing buildings

**1.02 RELATED SECTIONS**

- A. Reference Section 26 01 01

**PART 2 PRODUCTS****2.01 MATERIALS AND EQUIPMENT**

- A. Materials and equipment for patching and extending work: As specified in individual Sections.

**PART 3 EXECUTION****3.01 EXAMINATION**

- A. Verify field measurements and circuiting arrangements are as shown on drawings.
- B. Verify that abandoned wiring and equipment serve only abandoned facilities.
- C. Demolition drawings are based on casual field observation and existing record documents. Report discrepancies to the Architect/Engineer before disturbing existing installation.
- D. Beginning of demolition means installer accepts existing conditions.

**3.02 PREPARATION**

- A. Coordinate utility service outages with Owner.
- B. Provide temporary wiring and connections to maintain existing systems in service during construction. When work must be performed on energized equipment or circuits, use personnel experienced in such operations.
- C. Existing Electrical Service: Maintain existing system in service until new system is complete and ready for service. Disable system only to make switchovers and connections. Reference Section 26 01 01 - Scheduling. Make temporary connections to maintain service in areas adjacent to work area.

**3.03 DEMOLITION OF EXISTING ELECTRICAL WORK**

- A. Remove existing electrical equipment including switchgear, panels, and disconnect devices, conduit and wiring, as indicated on the construction drawings. Completely remove such equipment from the site and properly dispose of it, unless specifically instructed otherwise.
- B. Remove conduit as required to accommodate work of other trades. Remaining existing branch circuit may be reused to the extent possible.
- C. Remove inactive and abandoned raceways except raceways embedded in floors and walls, and raceways completely concealed above ceilings, may remain as long as such materials do not interfere with new installations.
- D. Remove inactive and abandoned wire; including disconnected circuits and circuits from which all terminal devices or loads have been eliminated.
- E. All openings left in existing construction by removal of existing equipment shall be patched and finished to match existing finishes.
- F. If during demolition, existing active services are encountered they shall be relocated as required to accommodate the remodeling. The continuity of said services shall be maintained at all times, except as provided under Section 26 01 01 - Scheduling.

**3.04 RELOCATION OF EXISTING EQUIPMENT**

- A. Relocate existing electrical equipment as indicated on the drawings. Equipment to be relocated shall be serviced and repaired as necessary to place in good working order and to the satisfaction of the Architect/Engineer. Relocated equipment shall be disconnected and completely reconnected to required services at new location.
- B. Cap off and abandon or remove existing services as required where existing equipment is disconnected or removed.

**3.05 POTENTIAL ASBESTOS AND LEAD HAZARD**

- A. Specific attention is directed to the possibility of the existence of asbestos and lead bearing compounds and/or materials at the project site. If any building material is encountered during construction which is suspected of containing asbestos or lead, the contractor must consult with UI EHS to identify the material constituents prior to any disturbance of that material.

**3.06 EXISTING UTILITIES AND PIPING**

- A. The locations of existing concealed lines and connection points have been indicated as closely as possible from available information. The Contractor shall assume that such connection points are within a 10 foot radius of the indicated location. Where connection points are not within this radius, the Contractor shall contact the Owner's Representative for a decision before proceeding or may proceed at their own expense.
- B. Connection points to existing work shall be located and verified prior to starting new work.
  - 1. Prior to commencing any excavation or ditching activity, the Contractor shall verify the exact location and inverts of all existing utilities and connection points in the area of their proposed excavation. Notify Owner's representative for further direction if actual inverts will not allow the proper installation of new work.
  - 2. The Contractor shall be responsible for damages that might be caused by their failure to exactly locate and preserve underground utilities.

**3.07 CUTTING AND PATCHING**

- A. Reference Section 26 01 01, Paragraph 3.04: Cutting and Patching

**END OF SECTION 26 0160**



**SECTION 26 0519  
BUILDING WIRE AND CABLE**

**PART 1 GENERAL****1.01 SECTION INCLUDES**

- A. Building wire and cable
- B. Service entrance cable
- C. Wiring connectors and connections

**1.02 RELATED SECTIONS**

- A. Section 26 05 53 - Electrical Identification

**1.03 REFERENCES**

- A. NECA Standard of Installation (National Electrical Contractors Association)
- B. NETA ATS - Acceptance Testing Specifications for Electrical Power Distribution Equipment and Systems (International Electrical Testing Association)
- C. NFPA 70 - National Electrical Code

**1.04 SUBMITTALS FOR REVIEW**

- A. Product Data: Submit information covering every type of wire or cable to be provided on the project.

**1.05 PROJECT CONDITIONS**

- A. Verify that field measurements are as indicated.
- B. Conductor sizes are based on copper unless specifically indicated as aluminum or "AL".
  - 1. All new conductors shall be copper, unless specifically noted otherwise.
- C. Aluminum conductors shall not be installed unless specifically indicated on the drawings.
- D. Wire and cable routing indicated is approximate unless dimensioned.

**1.06 COORDINATION**

- A. Where wire and cable destination is indicated and routing is not shown, determine exact routing and lengths required.

**PART 2 PRODUCTS****2.01 BUILDING WIRE**

- A. Manufacturers: Conductors shall be as manufactured by:
  - 1. American Insulated
  - 2. Cerro
  - 3. Encore
  - 4. Essex
  - 5. Houston
  - 6. Southwire
- B. Wire and cable shall be copper single conductor type with 600 volt insulation, unless otherwise indicated.
- C. Copper conductors shall be soft drawn, minimum 98 % conductivity.
- D. Grounding conductors shall be copper in all cases, no exceptions.
- E. #12 and smaller wire shall be solid with type TW, THW or THWN insulation. Larger wire shall be stranded with type THW or THWN insulation.
- F. Dedicated neutral conductors shall be installed for all branch circuits. Sharing of neutral conductors shall not be allowed for branch circuits.
- G. Outer jackets of conductors shall be color coded as follows:
  - 1. 120/208 volt circuits.
    - a. Phase A-Black
    - b. Phase B-Red

- c. Phase C-Blue
- d. Neutral-White
- 2. 277/480 volt circuits.
  - a. Phase A-Brown
  - b. Phase B-Orange
  - c. Phase C-Yellow
  - d. Neutral-White
- 3. Insulated ground wires-Green.
- 4. On large conductors, for which color coded jackets are not available, install bands of adhesive non-fading colored tape or slip-on bands of colored plastic tubing over the cables and wires at their terminations and in the vaults, wireways, junction boxes and outlet boxes. In vaults and wireways, install the color coding at each end of the wireway and at approximately 3 foot intervals within the vault or wireway.
- 5. Materials used for identification shall be colorfast and shall withstand cleaning. Colors used shall be the same as specified for outer jackets.

### **PART 3 EXECUTION**

#### **3.01 EXAMINATION**

- A. Verify that interior of building has been protected from weather.
- B. Verify that mechanical work likely to damage wire and cable has been completed.
- C. Verify that raceway installation is complete and supported.

#### **3.02 INSTALLATION IN RACEWAYS**

- A. Wire and cable shall be run in metal raceways, except where plastic conduit has been specifically approved. Pull all conductors into raceway at same time.
- B. Electrical feeder runs are shown schematically. Exact routing shall be determined by the contractor based upon field coordination with building structure and the work of other trades. The actual routing of feeder conduits shall be determined at the site and properly entered on the As-built drawings by the contractor.
- C. Branch circuit runs are shown schematically. Except where exact routing is indicated, branch circuit home runs may be grouped and the actual routing of branch circuit conduits may be determined at the site and properly entered on the As-built drawings.
- D. Electrical feeders and branch circuits shall be installed in accordance with the National Electrical Code. Provide and install appropriately sized pull boxes and junction boxes for electrical feeders and branch circuits in accordance with National Electrical Code requirements.
- E. All branch circuit shall be provided with dedicated neutral conductors. Shared neutral conductors are not allowed.
- F. Use solid conductor for feeders and branch circuits 12 AWG and smaller.
- G. Use stranded conductors for control circuits.
- H. Use conductor not smaller than 12 AWG for power and lighting circuits.
- I. Use conductor not smaller than 14 AWG for signal and control circuits, except as indicated.
- J. Use 10 AWG conductors for the entire length of the branch circuit for 20 ampere, 120 volt branch circuits longer than 75 feet.
- K. Use 10 AWG conductors for all exterior lighting circuits.
- L. Use suitable wire pulling lubricant for building wire 4 AWG and larger.
- M. Neatly train and lace wiring inside boxes, equipment, and panelboards.
- N. Where more than three current carrying conductors are installed in a single raceway, the minimum wire size shall be increased to provide allowable load current of 100 % of the overcurrent device in accordance with National Electrical Code, Table 310-15(b)(2)(a).
- O. All splices shall be made in properly sized junction/pull boxes.

- P. Service entrance and feeder conductors shall be installed without splices.
- Q. Except where sizes are indicated on the drawings, the following schedule shall be adhered to:

Circuit Overcurrent Device Rating	Conductor Sizes
20 amperes or less	#12
25 or 30 amperes	#10
35 or 40 amperes	#8
45 or 50 amperes	#6
60 or 70 amperes	#4
80 or 90 amperes	#2
100 or 110 amperes	#1
125 or 150 amperes	#1/0

- R. Where ambient temperatures are within 50 °F of the maximum allowable operating temperatures of the insulation of a conductor, provide conductors with insulation of higher temperature rating suitable for the temperature to be encountered.
- S. Identify and color code all wire and cable as specified above. Identify each conductor with its circuit number or other designation indicated.

**3.03 WIRING CONNECTIONS AND TERMINATIONS**

- A. The use of wire nuts is restricted to splices in wire #8 and smaller and shall be made with Scotchlok or approved equal. Splices made in conductors larger than #8 shall be made with Compression type connectors, and provided with heat shrink type insulation which meets or exceeds the existing conductor insulation.
- B. Clean conductor surfaces before installing lugs and connectors.
- C. Make splices, taps, and terminations to carry full ampacity of conductors with no perceptible temperature rise.
- D. Re-tighten all bolt type connections twenty-four (24) to forty-eight (48) hours after installation and before taping. All bolt type connections to bus-bars shall employ spring loaded Belleville washers.
- E. All cables shall extend between outlets with complete electrical continuity and without any shorts or grounds. Cables shall be uninterrupted and unspliced.
- F. Cables shall be routed so as to maintain a separation of at least 2 feet from all heat sources and from ballasts, transformers, dimmers and all other sources of electromagnetic interference. Avoid cables in areas where they may be damaged as a result of normal use of the area.
- G. Cable run in suspended ceiling cavities shall not lie upon the ceiling or be supported from ceiling suspension wires or from conduits or pipes, but shall be suspended from the building structural elements using cable ties.
- H. Care shall be exercised during installation not to damage the cable insulation. Damaged cables shall be removed and replaced.
- I. Stranded conductors shall not be connected directly to wiring devices. Where such connections are to be made, insulated solid copper wire “tails” shall be spliced to the stranded conductors in the outlet box.

**END OF SECTION 26 0519**



**SECTION 26 0520  
EQUIPMENT WIRING**

**PART 1 GENERAL****1.01 SECTION INCLUDES**

- A. Electrical connections to equipment
- B. Mechanical control revisions to existing equipment

**1.02 RELATED SECTIONS**

- A. Section 26 05 19 - Building Wire and Cable
- B. Section 26 05 30 - Conduit
- C. Section 26 05 32 - Boxes

**1.03 REFERENCES**

- A. NEMA WD 1 - General Purpose Wiring Devices
- B. NEMA WD 6 - Wiring Devices - Dimensional Requirements
- C. NFPA 70 - National Electrical Code

**1.04 SUBMITTALS FOR REVIEW**

- A. Product Data: Provide wiring device manufacturer's catalog information showing dimensions, configurations, and construction.

**1.05 REGULATORY REQUIREMENTS**

- A. Conform to requirements of NFPA 70.
- B. Products: Listed and classified by Underwriters Laboratories, Inc. as suitable for the purpose specified and indicated.

**1.06 COORDINATION**

- A. Obtain and review shop drawings, product data, manufacturer's wiring diagrams, and manufacturer's instructions for equipment furnished under other sections.
- B. Determine connection locations and requirements.
- C. Sequence rough-in of electrical connections to coordinate with installation of equipment.
- D. Sequence electrical connections to coordinate with start-up of equipment.

**PART 2 PRODUCTS****2.01 CORDS AND CAPS**

- A. Manufacturers: Leviton, Bryant, Hubbell, Pass & Seymour, and Arrow-Hart.
- B. Attachment Plug Construction: Conform to NEMA WD 1.
- C. Configuration: NEMA WD 6, UL 498, heavy duty nylon construction with external cord clamp and dead-front construction, with rating and NEMA configuration molded on the device. Match receptacle configuration at outlet provided for equipment.
- D. Cord Construction: NFPA 70, Type SO multi-conductor flexible cord with identified equipment grounding conductor, suitable for use in damp locations.
- E. Size: Suitable for connected load of equipment, length of cord, and rating of branch circuit overcurrent protection.

**PART 3 EXECUTION****3.01 EXAMINATION**

- A. Verify that equipment is ready for electrical connection, wiring, and energization.

**3.02 ELECTRICAL CONNECTIONS**

- A. Make electrical connections in accordance with equipment manufacturer's instructions.

- B. Make conduit connections to equipment using flexible conduit. Use liquidtight flexible conduit with watertight connectors in damp or wet locations.
- C. Connect heat producing equipment using wire and cable with insulation suitable for temperatures encountered.
- D. Provide receptacle outlet to accommodate connection with attachment plug.
- E. Provide cord and cap where field-supplied attachment plug is required.
- F. Install suitable strain-relief clamps and fittings for cord connections at outlet boxes and equipment connection boxes.
- G. Install disconnect switches, controllers, control stations, and control devices to complete equipment wiring requirements.
- H. Install terminal block jumpers to complete equipment wiring requirements.
- I. Install interconnecting conduit and wiring between devices and equipment to complete equipment wiring requirements.
- J. Provide final connection of all equipment items as scheduled. Coordinate work with the equipment supplier/installer.
- K. Obtain dimensioned shop drawings from the equipment suppliers prior to rough-in of branch circuits.
- L. Where equipment requires a cord connection, install a new cord and cap if the one furnished does not match the receptacle provided.
- M. Circuit breaker, feeder and fuse sizes shall be coordinated with the nameplate data on the equipment actually furnished.

**END OF SECTION 26 0520**

**SECTION 26 0526  
GROUNDING AND BONDING**

**PART 1 GENERAL****1.01 SECTION INCLUDES**

- A. Grounding electrodes and conductors
- B. Equipment grounding conductors
- C. Bonding

**1.02 REFERENCES**

- A. NETA ATS - Acceptance Testing Specifications for Electrical Power Distribution Equipment and Systems (International Electrical Testing Association)
- B. NFPA 70 - National Electrical Code

**1.03 PERFORMANCE REQUIREMENTS**

- A. Grounding System Resistance: 25 ohms

**1.04 SUBMITTALS FOR REVIEW**

- A. Submit under provisions of Section 26 01 01.
- B. Product Data: Provide data for grounding electrodes and connections, installation details, dimensioned plan view drawings of the buildings showing the grounding system, and criteria for system test and acceptance. As a minimum, said drawings shall show the type and location of all conductors, fasteners, splices and connectors, and all ground terminals. Submittal shall include design criteria and calculations for any deviations from these specifications.

**1.05 PROJECT FINALIZATION**

- A. Submit under provisions of Section 26 01 02.
- B. Operation and Maintenance Data: Include manufacturer's descriptive literature, operating instructions, installation instructions, maintenance and repair data, and parts listing.
- C. Warranty: Submit manufacturer's warranty and ensure forms have been filled out in Owner's name and registered with the manufacturer

**1.06 OPERATION AND MAINTENANCE DATA**

- A. Section 01 77 00 - Contract Closeout: 01 78 23 - Operation and Maintenance Data
- B. Project Record Documents: Record actual locations of components and grounding electrodes.
- C. Certificate of Compliance: Indicate approval of installation by authority having jurisdiction.

**1.07 QUALITY ASSURANCE**

- A. Conform to requirements of NFPA 70.
- B. Product: Listed and classified by Underwriters Laboratories, Inc. as suitable for the purpose specified and indicated.

**PART 2 PRODUCTS****2.01 WIRE**

- A. Material: Stranded copper
- B. System grounding electrode conductors and bonding conductors shall be stranded single conductors, with 600 volt insulation, sized to meet NFPA 70 requirements, as manufactured by General Cable, Rome, Southwire or Triangle.

**PART 3 EXECUTION****3.01 GENERAL**

- A. Grounding conductors shall be copper in all cases - no exceptions.

**3.02 DISTRIBUTION GROUNDING**

- A. Where a conduit enters a painted sheet metal enclosure, the paint shall be cleaned from the area around the locknut to allow metal-to-metal contact or a grounding locknut shall be used.
- B. Provide a redundant equipment grounding conductor together with each feeder run in addition to the conduit system grounding path.
- C. Provide a redundant equipment grounding conductor, in addition to the conduit system ground path and in addition to the phase and neutral conductors shown on the plans, in each branch circuit conduit which supplies receptacles, lights or fixed electrical equipment. An additional isolated ground conductor shall be provided where so indicated on the drawings.
- D. Connect the ground terminal on each receptacle to the metallic raceway system with a bonding jumper, except in the case of surge-suppression or isolated-ground type receptacles. The ground terminal of surge-suppression or isolated-ground type receptacles shall be connected to an insulated equipment grounding conductor run with the branch circuit conductors, but isolated from the conduit system except at the panelboard, where it shall be connected to the panelboard ground bus. Maintain continuity of the ground to every outlet in the system.

**3.03 DOCUMENTATION**

- A. At the completion of the project, drawings and photographs shall be updated to as-built status and incorporated in the project Operation and Maintenance Manuals.

**3.04 TESTING**

- A. After installation, the grounding electrode systems shall be tested for system conductivity and ground terminal resistance-to-earth.
- B. Tests shall be conducted using three-point Vibraground test equipment in accordance with applicable standards.
- C. The test report shall be included in the Operation and Maintenance Manual.

**END OF SECTION 26 0526**



**SECTION 26 0530  
CONDUIT**

**PART 1 GENERAL****1.01 SECTION INCLUDES**

- A. Metal conduit
- B. PVC coated metal conduit
- C. Flexible metal conduit
- D. Liquidtight flexible metal conduit
- E. Electrical metallic tubing
- F. Rigid plastic conduit
- G. Fittings and conduit bodies

**1.02 RELATED SECTIONS**

- A. Section 26 05 26 - Grounding and Bonding
- B. Section 26 05 32 - Boxes
- C. Section 26 05 53 - Electrical Identification
- D. Section 26 27 27 - Supporting Devices

**1.03 REFERENCES**

- A. ANSI C80.1 - Rigid Steel Conduit, Zinc Coated
- B. ANSI C80.3 - Electrical Metallic Tubing, Zinc Coated
- C. ANSI C80.5 - Rigid Aluminum Conduit
- D. ANSI/NEMA FB 1 - Fittings, Cast Metal Boxes, and Conduit Bodies for Conduit and Cable Assemblies
- E. ANSI/NFPA 70 - National Electrical Code
- F. NECA "Standard of Installation"
- G. NEMA RN 1 - Polyvinyl Chloride (PVC) Externally Coated Galvanized Rigid Steel Conduit and Intermediate Metal Conduit
- H. NEMA TC 3 - PVC Fittings for Use with Rigid PVC Conduit and Tubing

**1.04 DESIGN REQUIREMENTS**

- A. Conduit Size: ANSI/NFPA 70

**1.05 SUBMITTALS**

- A. Product Data: Provide data for metallic conduit, flexible metal conduit, liquidtight flexible metal conduit, metallic tubing, nonmetallic conduit, flexible nonmetallic conduit, nonmetallic tubing, fittings, conduit bodies, and fire sealants.
- B. Shop drawing submittal shall be the same size as the contract documents and shall show the floorplan scaled at 1/8 inch = 1 foot.

**1.06 PROJECT RECORD DOCUMENTS**

- A. Submit under provisions of Section 01 78 39.
- B. Accurately record actual routing of conduits larger than 1 inch.

**1.07 DELIVERY, STORAGE, AND HANDLING**

- A. Deliver, store, protect, and handle Products to site under provisions of Section 26 01 01.
- B. Accept conduit on site. Inspect for damage.
- C. Protect conduit from corrosion and entrance of debris by storing above grade. Provide appropriate covering.
- D. Protect PVC conduit from sunlight.

**1.08 PROJECT CONDITIONS**

- A. Verify that field measurements are as shown on drawings.
- B. Verify routing and termination locations of conduit prior to rough-in.
- C. Conduit routing is shown on drawings in approximate locations unless dimensioned. Route as required to complete the wiring system.

**PART 2 PRODUCTS****2.01 METAL CONDUIT**

- A. Manufacturers: Allied Tube and Conduit, LTV, Triangle PWC, Western Tube and Conduit, or equal
- B. Rigid Steel Conduit: ANSI C80.1
- C. Rigid Aluminum Conduit: ANSI C80.5
- D. Intermediate Metal Conduit (IMC): Rigid steel
- E. Fittings and Conduit Bodies: ANSI/NEMA FB 1; Threaded galvanized or cadmium plated steel fittings. Bushings shall have nylon insulated throats

**2.02 PVC COATED METAL CONDUIT**

- A. Manufacturers: Rob Roy Industries, or equal
- B. Description: NEMA RN 1; rigid steel conduit with external PVC coating, 20 mil thick
- C. Fittings and Conduit Bodies: ANSI/NEMA FB 1; Threaded galvanized or cadmium plated steel fittings. Bushings shall have nylon-insulated throats. All steel fittings shall have an external PVC coating to match conduit.

**2.03 FLEXIBLE METAL CONDUIT**

- A. Manufacturers: AFC, Anamet, Triangle PWC, or equal
- B. Description: Interlocked, galvanized steel construction
- C. Fittings: ANSI/NEMA FB 1: Specifically designed for the purpose

**2.04 LIQUIDTIGHT FLEXIBLE METAL CONDUIT**

- A. Manufacturers: AFC, Anamet, Electriflex, Alflex, or equal
- B. Description: Interlocked, galvanized steel construction with PVC jacket.
- C. Fittings: ANSI/NEMA FB 1: Specifically designed for the purpose

**2.05 ELECTRICAL METALLIC TUBING (EMT)**

- A. Manufacturers: Allied Tube and Conduit, LTV, Triangle PWC, or equal
- B. Description: ANSI C80.3; galvanized tubing
- C. Fittings and Conduit Bodies: ANSI/NEMA FB 1; steel, set screw type with nylon insulated throats on connectors

**2.06 RIGID PLASTIC CONDUIT**

- A. Manufacturers: Carlon, PW Pipe, Triangle PWC, or equal
- B. Description: NEMA TC 2; Schedule 40 PVC
- C. Fittings and Conduit Bodies: NEMA TC 3

**2.07 CONDUIT WITH INNERDUCTS**

- A. Manufacturers: Carlon, Optic-Gard/PE, No 13109, or approved equal
- B. Description: NEMA TC 2
- C. Fittings and Conduit Bodies: NEMA TC 3

**PART 3 EXECUTION****3.01 INSTALLATION**

- A. Minimum conduit size shall be ¾”.

- B. Primary service and secondary service entrance conduit types shall be any combination of the following:
  - 1. Rigid metal conduit for exposed, concealed, underground or underslab runs.
  - 2. Rigid nonmetallic conduit with a separate ground wire for underground, or underslab on grade, runs.
- C. Feeder conduit types shall be as follows:
  - 1. Rigid metal conduit for exposed, underground or underslab runs.
  - 2. Intermediate metal conduit in walls, above ceilings, in poured concrete or in masonry, except for runs in hazardous locations.
  - 3. Electrical metallic tubing with separate ground wire in non-masonry/concrete walls, above ceilings, and where exposed in non-hazardous locations.
  - 4. Rigid nonmetallic conduit with a separate ground wire for underground or under slab on grade runs, except runs in hazardous locations.
- D. Branch circuit conduit types shall be as follows:
  - 1. Rigid metal conduit for exposed runs up to 4 feet 6 inches above the finished floor in sheltered spaces, for all exposed runs subject to the weather, for runs in hazardous locations and for underground or underslab runs.
  - 2. Intermediate metal conduit in walls, above ceilings, in poured concrete or in masonry, except runs in hazardous locations.
  - 3. Electrical metallic tubing in non-masonry/concrete walls or above ceilings, and for exposed runs in non-hazardous locations.
  - 4. Liquid-tight flexible steel conduit for connections to transformers, motors and other vibrating equipment in damp and wet areas or where exposed to the weather.
  - 5. Flexible steel conduit for connections to transformers, motors and other vibrating equipment in dry, sheltered areas.
  - 6. Rigid nonmetallic conduit with a separate ground wire for underground or under slab on grade runs.
- E. Conduits shall be sized in accordance with the applicable codes except where larger conduits are called for on drawings. Sizes shown on the drawings are based on the use of rigid metal conduit and copper conductors with THW insulation unless noted otherwise.
- F. Do not install conduit in poured concrete or masonry walls or slabs without the Architect's approval.
- G. All conduit penetrations of structural elements or conduits run within masonry walls or slabs shall be approved by the Architect in advance of installation.
- H. Conduits run in masonry shall be placed at least 1 inch from the surface. Care shall be taken to avoid placing conduits where they will be subjected to excessive heat.
- I. Conduit ends shall be capped using standard capped bushings or steel "pennies" and bushings to prevent entrance of foreign materials during construction.
- J. Rigid conduit and IMC shall be reamed after threads are cut. Joints shall be cut square and shall butt solidly into couplings. Running threads will not be permitted. Cut ends of EMT shall also be reamed.
- K. Bends in rigid conduit, IMC and EMT runs larger than 1¼ inch shall be of factory-made elbows unless otherwise specifically approved. Bends in 1¼ inch and 1 inch runs shall be made in an approved bending machine (or factory made). Hickey bends will not be permitted in conduits larger than ¾ inch. Bends shall not show flattening.
- L. The radius of the inner edge curve of any field bend shall not be less than indicated in the following table:

Conduit Size (inches)	Inside Radius (inches)
½	4
¾	5
1	6

Conduit Size (inches)	Inside Radius (inches)
1¼	8
1½	10
2	12
2½	15
3	18
3½	21
4	24

- M. Where conduit runs are 100 feet or longer or contain the equivalent of four (4) 90 degrees bends, pull/junction boxes shall be provided. Pull box locations shall be indicated on the as-built drawings.
- N. Provide a #12 AWG copper pull wire or a polyethylene pull rope rated at 250 pounds (minimum) tensile strength in each conduit left empty for future use.
- O. Conduits containing innerducts shall consist of a four inch PVC Schedule 40 outer conduit (underground) or RGS (above ground or indoors), with three 1¼ inch ribbed polyethylene innerducts. Install all innerducts at once without crushing or kinking.
- P. Ground and bond conduit under provisions of Section 26 05 26.
- Q. Identify conduit under provisions of Section 26 05 53.
- R. Branch circuit runs are shown schematically. Except where exact routing is indicated, branch circuit home runs may be grouped and the actual routing of branch circuit conduits may be determined at the site and properly entered on the As-built drawings.

### 3.02 RACEWAY INSTALLATION - SPECIAL ABOVE-GROUND REQUIREMENTS

- A. Conduits shall be concealed in the building construction to the fullest extent possible except in electrical rooms, mechanical rooms and where exposed runs are indicated or cannot be avoided. Exposed conduits shall be run parallel to walls and ceilings and at the ceiling wherever possible.
- B. Conduits, whether exposed or concealed, shall be securely supported and fastened at intervals of nominally every 10 feet and within 36 inches of each outlet, ell, fitting, panel, etc. Suspended conduits shall be supported by metal rings or by trapeze hangers of Unistrut or Kindorf channel and threaded steel rods. Multiple runs of conduit on ceilings and walls shall be mounted on Unistrut or Kindorf channel. Perforated plumber's tape shall not be used. Single runs of exposed conduit shall be supported with steel pipe straps. Conduit shall not be supported from ducts, plumbing or other piping or from other conduits but only from building structural elements. Reference additional conduit support requirements under provisions of Section 26 27 27.
- C. Provide suitable fittings to accommodate expansion and deflection where conduit crosses seismic, control and expansion joints, or wherever conduit may be affected by dissimilar movements of the supporting structure.
- D. Where conduit is exposed to the weather or in wet locations, make joints liquid and gastight. Ends of all such conduits shall be sealed after conductors.
- E. Keep conduit at least 6 inches from hot water or steam pipes and at least 18 inches from the covering on flues and the like.
- F. Do not cut, notch or drill structural framing members for the installation of conduit without the Architect's advance approval in each case.
- G. Rigid steel conduit shall be used at roof penetrations. Where conduits pass through the roof, provide channel supports below the roof spanning the structural elements of the roof and braced to the building structure in at least two (2) directions at right angles to one another. The conduit penetrating the roof shall be secured to the supports at two (2) points below the roof as required to render the portion above the roof rigid.

- H. Where flexible metal conduit is used for equipment connections or other special (approved) situations, provide a continuous copper ground conductor sized in accordance with the applicable codes. Liquidtight flexible metal conduit shall be used for all equipment connections in damp and wet areas. Flexible conduit used for connections to vibrating equipment shall be approximately 3 feet long and contain one (1) 90 degree bend.
- I. Install conduits so that there is a minimum of 12 inches of clearance between bottom of conduit and top of removable ceiling tiles.

### 3.03 SLEEVES

- A. Provide sleeves of sufficient size to permit ready installation of each conduit which passes through concrete walls or suspended slabs. Sleeves in concrete beams, joists, columns or footing walls may be installed only where permitted by the Architect.
- B. For conduit that passes through suspended concrete slabs, place sleeves with the top one inch above finished slab and the bottom flush with underside of slab. In all other cases, place sleeves with the ends flush with the concrete surfaces. Space sleeves at least three diameters apart on center or more if required by the Architect.
- C. Where conduits pass through fire resistive walls, ceilings or floors, sleeves shall be packed with fire resistive compound equal to 3M Fire Barrier.
- D. Penetrations through fire rated floors, ceilings and walls shall be sealed using an approved fire barrier sealant. Fire barrier sealants shall be a UL Rated material classified for use in through-penetration fire stop systems, and shall have ICBO, BOCAI, and SBCCI (NRB 243) approved rating per ASTM-814 (UL 1479). The sealant shall be equal to 3M CP-25 caulk, FS 195 strips and CS 195 sheet forms or an approved equal. Acceptable manufacturers are STI, 3M, Pensil, Hilti, Dow, Fyre Putty, Hevi-Duty and Nelson.
  - 1. Where sleeves penetrate existing fire resistive concrete walls or floors, the annular space around the sleeve shall be filled with fire resistive intumescent compound equal to STI "Spec Seal" firestop sealant as manufactured by Specified Technologies, Inc., Somerville, New Jersey. If the annular space exceeds  $\frac{3}{4}$  inch, it shall be filled instead with fire resistive grout equal to STI "Spec Seal" firestop mortar.
  - 2. Where sleeves penetrate fire resistive sheetrock walls or ceilings or where they penetrate fire resistive suspended ceilings, the annular space around the sleeve shall be filled with fire resistive intumescent compound equal to STI "Spec Seal" firestop sealant.
  - 3. Where sleeves pass through fire resistive walls, ceilings or floors, sleeves shall be packed with fire resistive intumescent compound equal to STI "Spec Seal" firestop putty.
  - 4. A manufacturer's supplied installation detail shall be submitted for each type of assembly with the UL approval and limitations indicated.

**END OF SECTION 26 0530**



**SECTION 26 0531  
SURFACE RACEWAYS**

**PART 1 GENERAL****1.01 SECTION INCLUDES**

- A. Surface metal raceways
- B. Multi-outlet assemblies

**1.02 RELATED SECTIONS**

- A. Section 26 05 26 - Grounding and Bonding
- B. Section 26 27 26 - Wiring Devices: Receptacles
- C. Section 26 27 27 - Supporting Devices
- D. Section 27 05 28 - Telephone Service, Pathways, and Wiring

**1.03 REFERENCES**

- A. National Electrical Code Article 362 - Wireways, Article 374 - Auxiliary Gutters
- B. National Electrical Contractor's Association (NECA) Standard of Installation
- C. NEMA WD 6 - Wiring Device Configurations
- D. Underwriters Laboratories (UL) Standard of Safety 870 - Wireways, Auxiliary gutters and Associated Fittings

**1.04 SUBMITTALS**

- A. Product Data: Provide dimensions, knockout sizes and locations, materials, fabrication details, finishes, and accessories.

**1.05 REGULATORY REQUIREMENTS**

- A. Furnish products listed and classified by Underwriters Laboratories, Inc. or other testing firm acceptable to authority having jurisdiction as suitable for purpose specified and shown.

**PART 2 PRODUCTS****2.01 SURFACE METAL RACEWAY**

- A. Manufacturers: Wiremold, or approved equal
- B. Description: Sheet metal channel with fitted cover, suitable for use as surface metal raceway.
- C. Size: As shown on drawings. If not shown, raceway shall be Wiremold #V700.
- D. Finish: As selected by Architect.
- E. Fittings, Boxes, and Extension Rings: Furnish manufacturer's standard accessories.

**2.02 MULTI OUTLET ASSEMBLY**

- A. Manufacturers: Wiremold, or approved equal
- B. Multi outlet Assembly: Sheet metal channel with fitted cover, with pre-wired receptacles, suitable for use as multi outlet assembly.
- C. Size: As indicated on drawings. If not shown, raceway shall be Wiremold #V2400. Where isolated ground receptacles are indicated on the drawings, raceway shall be Wiremold #G3000. Where receptacles and data/telephone outlets are indicated on the drawings, raceways shall be Wiremold #V4000 with internal divider.
- D. Receptacles: NEMA WD 6, type 5-15R, single receptacle, unless indicated otherwise.
- E. Receptacle Spacing: As indicated on drawings.
- F. Channel Finish: As selected by Architect.
- G. Fittings: Furnish manufacturer's standard couplings, elbows, outlet and device boxes, and connectors.

**PART 3 EXECUTION**

**3.01 INSTALLATION**

- A. Install Products in accordance with manufacturer's instructions.
- B. Use flat-head screws, clips, and straps to fasten raceway channel to surfaces. Mount plumb and level.
- C. Use suitable insulating bushings and inserts at connections to outlets and corner fittings.
- D. Wireway Supports: Provide steel channel as specified in Section 26 27 27.
- E. Close ends of wireway and unused conduit openings.
- F. Ground and bond raceway and wireway under provisions of Section 26 05 26.

**END OF SECTION 26 0531**



**SECTION 26 0532  
BOXES****PART 1 GENERAL****1.01 SECTION INCLUDES**

- A. Wall and ceiling outlet boxes
- B. Pull and junction boxes

**1.02 RELATED SECTIONS**

- A. Section 26 05 30 - Conduit
- B. Section 26 27 16 - Cabinets and Enclosures
- C. Section 26 27 26 - Wiring Devices

**1.03 REFERENCES**

- A. NECA - Standard of Installation
- B. NEMA FB 1 - Fittings and Supports for Conduit and Cable Assemblies
- C. NEMA OS 1 - Sheet-steel Outlet Boxes, Device Boxes, Covers, and Box Supports
- D. NEMA OS 2 - Non-metallic Outlet Boxes, Device Boxes, Covers and Box Supports
- E. NEMA 250 - Enclosures for Electrical Equipment (1000 Volts Maximum)
- F. NFPA 70 - National Electrical Code

**1.04 SUBMITTALS**

- A. Product Data: Provide data for wall and ceiling outlet boxes, floor boxes, pull, and junction boxes.
- B. Record actual locations and mounting heights of outlet, pull, and junction boxes on project record documents.

**1.05 REGULATORY REQUIREMENTS**

- A. Provide Products listed and classified by Underwriters Laboratories, Inc., as suitable for the purpose specified and indicated.

**PART 2 PRODUCTS****2.01 OUTLET BOXES**

- A. Manufacturers: Appleton, Crouse Hinds, Killark, O Z Gedney, Raco/Bell, Steel City, or equal.
- B. Boxes shall accommodate the devices to be installed and shall be sized as required by the applicable codes for number and size of conduits and conductors entering and leaving. Round or octagon boxes will not be permitted unless specifically called for. Boxes shall have galvanized finish.
- C. Boxes shall be of code gauge steel and provided with plaster, tile or other appropriate device rings.
- D. Outlet boxes and device boxes mounted in non-masonry walls shall be minimum 4 inches square by 1½ inches deep exclusive of rings and shall be provided with covers or device rings as specified. Boxes for wall switches and data/telephone outlets shall be minimum 2 1/8 inches deep exclusive of rings. Boxes for data/telephone outlets shall be minimum 4 11/16 inches square by 2 1/8 inches deep exclusive of rings.
- E. Outlet boxes, telephone/data boxes, and device boxes mounted in masonry walls shall be double gang masonry boxes with a minimum depth of 2½ inches for 4 inch masonry walls and 3½ inches for 6 inch or 8 inch masonry walls (exclusive of rings).
- F. Weatherproof boxes shall be non-rusting cast metal with threaded hubs. Boxes shall have screw mounted, gasketed covers. Plugs shall be installed in all unused holes.
- G. Boxes installed in masonry walls shall have tile covers.

**2.02 PULL AND JUNCTION BOXES**

- A. Manufacturers: Circle AW, Hoffman, Rittal, or equal
- B. Special oversized outlet boxes and junction boxes shall be code gauge steel and of the knockout type. Boxes shall have screw mounted covers for surface or flush mounting. Boxes shall be sized in accordance with applicable codes. Special outlet boxes shall accommodate the equipment served.
- C. In damp or wet locations sheet metal pull boxes shall be hot dipped galvanized after fabrication then finish painted with two coats of rust-resistant paint. Use covers with neoprene gaskets affixed with stainless steel screws. Seal around conduit entries with silicone based sealant.

**PART 3 EXECUTION****3.01 EXAMINATION**

- A. Verify exact locations of floor boxes and outlets prior to rough-in.

**3.02 GENERAL INSTALLATION**

- A. Install boxes in accordance with NECA "Standard of Installation."
- B. Install in locations as shown on drawings, and as required for splices, taps, wire pulling, equipment connections and compliance with regulatory requirements.
- C. Electrical boxes are shown on drawings in approximate locations unless dimensioned. Adjust box location up to 10 feet if required to accommodate intended purpose.
- D. Boxes shall be supported independently of the conduit system. Do not fasten boxes to ceiling support wires.
- E. Where boxes occur in pre-cast concrete construction, the Contractor shall coordinate said installation with the Contractor building the precast construction to produce shop drawings showing all box locations. Provisions shall be made for conduit entry from top or bottom of wall panels. All conduit and boxes shall be installed concealed and flush respectively. These requirements shall be met whether the precast work is done at the site or a location remote from the site.
- F. All boxes shall be plumb. Supports shall be noncombustible and corrosion resistant. In suspended ceilings, bar hangers shall be used to support the boxes from the ceiling channels. Refer to architectural drawings for exact heights of outlets not specified herein or indicated on the drawings. Unused knockouts in boxes shall be left sealed.
- G. Do not mount control or disconnecting devices more than 6 feet 6 inches above finish floor.
- H. Do not locate cabinets, outlets or other apertures larger than 16 square inches in rated fire walls.
- I. Prior to installation, the Owner reserves the right to relocate any outlet or device within 6 feet of the location indicated on the plans at no additional cost.
- J. Where rigid conduit or IMC enters a box, fitting or device through a knockout, double locknuts and an insulated metallic bushing shall be used. EMT shall terminate at knockouts with an insulated throat fitting and one locknut. Connectors shall be made up tight to insure electrical continuity of the raceway system.
- K. Provide all necessary supports and backing for all enclosures and equipment.
- L. Attach boxes, outlets, straps, cabinets and equipment to wood with wood or lag screws, to metal with machine screws or bolts, and to concrete with expansion anchors or self-drilling metal anchors and machine screws or bolts. Use size and number of attachments as required to support equipment weight with a safety factor of four (4) minimum.
- M. Provide access doors where boxes are not exposed or located within an accessible ceiling unless indicated to be provided under other Divisions. Access doors shall comply with Section 08305.

**3.03 OUTLET BOX INSTALLATION**

- A. Each lighting outlet, switch, receptacle and other miscellaneous device shall be provided with a suitable box.
- B. Align adjacent wall mounted outlet boxes for receptacles, data/telephone outlets, and similar devices.
- C. Use flush mounting outlet box in finished areas.
- D. Locate flush mounting box in masonry wall to require cutting of masonry unit corner only. Coordinate masonry cutting to achieve neat opening.
- E. Outlet boxes installed in masonry walls shall be set deep enough to allow a masonry facing over the plaster ring to frame the opening. Center outlet in a course of masonry. Masonry boxes shall be mounted as follows:
  - 1. From floor to height of 6 feet, mount so that bottom of box rests on block joint.
  - 2. Above 6 feet, mount so that top of box rests on block joint.
- F. Do not install flush mounting box back-to-back in walls; provide minimum of 6 inches separation. Provide minimum of 24 inches separation in fire-rated assemblies and acoustic rated walls.
- G. Secure flush mounting box to interior wall and partition studs. Accurately position to allow for surface finish thickness.
- H. Use stamped steel bridges to fasten flush mounting outlet box between studs.
- I. Install flush mounting box without damaging wall insulation or reducing its effectiveness.
- J. Use adjustable steel channel fasteners for hung ceiling outlet box.
- K. Use cast outlet box in exterior locations, where exposed to the weather and wet locations.
- L. Where two or more of the same type devices occur adjacent to each other, they shall be in a gang type box with a gang type cover. Where different type devices occur adjacent to each other, space outlet boxes so that finish plates will be spaced 1 inch apart. Where receptacles or switches are shown side by side but at different heights, they shall be centered one above the other unless noted otherwise.
- M. Unless otherwise indicated, switch boxes shall be mounted with bottom at 48 inches, over counter convenience outlet boxes shall be centered 8 inches above the counter top or higher as required to clear the backsplash, desk height outlet boxes shall be mounted with bottom at 32 inches and other convenience outlets shall be mounted with bottom at 16 inches above the finished floor. Coordinate outlet locations and provide box extensions or other equipment as required where outlets occur in cabinet backs.
- N. Outlets in acoustical ceilings are to be in the center of the acoustical tile or in the center of a joint in the acoustical tile.
- O. Align all outlets horizontally or vertically for a uniform and neat appearance.

**3.04 PULL AND JUNCTION BOX INSTALLATION**

- A. Pull boxes and junction boxes shall be provided as indicated on the drawings and/or as required.
- B. Boxes larger than 200 cubic inches or 18 inches in any dimension shall use a hinged enclosure in interior dry locations, surface-mounted cast metal box in other locations.
- C. Install pull boxes and junction boxes above accessible ceilings and in unfinished areas only.
- D. Inaccessible Ceiling Areas: Install outlet and junction boxes no more than 6 inches from ceiling access panel or from removable recessed luminaire.

**3.05 ADJUSTING**

- A. Adjust flush-mounting outlets to make front flush with finished wall material.
- B. Install knockout closures in unused box openings.

**END OF SECTION 26 0532**



**SECTION 26 0553  
ELECTRICAL IDENTIFICATION**

**PART 1 GENERAL****1.01 SECTION INCLUDES**

- A. Nameplates
- B. Wire and Cable Markers
- C. Underground Conduit Markers
- D. Pull and Junction Box Identification
- E. Device Plate Identification

**1.02 RELATED SECTIONS**

- A. Section 26 27 26 - Wiring Devices

**PART 2 PRODUCTS****2.01 NAMEPLATES**

- A. Nameplates shall be laminated phenolic plastic, black front and back with white core, with lettering etched through the outer covering, except where other colors are a code requirement (e.g., service entrance main disconnects). White engraved letters on black background shall be 3/16 inch high at push-button stations, thermal overload switches, receptacles, wall switches and similar devices, where the nameplate is attached to the device plate. All other locations, lettering shall be 1/2 inch high. Nameplates shall be securely fastened to the equipment with No. 4 Phillips, round-head, cadmium-plated, steel self-tapping screws or nickel-plated brass bolts. Engraving directly on stainless steel device plates is acceptable. Nameplates shall describe the function or use of the item.

**2.02 WIRE AND CABLE MARKERS**

- A. Manufacturers: W. H. Brady Co, Seton, Tyton.
- B. Markers shall be cloth tape, split sleeve, or tubing type.

**PART 3 EXECUTION****3.01 PREPARATION**

- A. Degrease and clean surfaces to receive identification materials.

**3.02 NAMEPLATE INSTALLATION**

- A. The following items shall be equipped with nameplates:
  - 1. Motor starters, motor control switches, pushbutton stations, control panels and time switches.
  - 2. Disconnect switches, panelboards, switchboards, and separate overcurrent devices mounted in switchboards. Indicate voltage and phase.
  - 3. Service entrance main disconnects. Indicate other service entrance locations, if any.
  - 4. Circuit breakers, contactors and relays in separate enclosures.
  - 5. Switches or dimmers controlling luminaires not located within sight of the controlling device.
  - 6. Special electrical system components, terminal cabinets, equipment cabinets and equipment racks.
  - 7. Wall switches controlling equipment.
  - 8. Special receptacles.

**3.03 WIRE IDENTIFICATION**

- A. Provide wire markers on each conductor in panelboards, gutters, pull boxes, and at load connection.
- B. Identify with branch circuit or feeder number for power and lighting circuits.
- C. Identify with control wire number as indicated on equipment manufacturer's shop drawings.

**3.04 DUCTBANK WARNING TAPE**

- A. Identify underground conduits using one underground warning tape per trench.

**3.05 PULL BOX AND JUNCTION BOX IDENTIFICATION**

- A. Each pull and junction box shall be neatly identified with permanent black marker or stick on labels on the outside of the box (where the box is concealed) and on the inside of the box (in exposed locations). Identify each pull and junction box with a system description as follows:
1. Lighting – Ltg.
  2. Receptacles – Rec.
  3. Equipment – AHU-1 or MZU-1.
  4. Computer – Com.
  5. Telephone – Tel.
  6. Fire Alarm – FA.

**END OF SECTION 26 0553**

**SECTION 26 2726  
WIRING DEVICES**

**PART 1 GENERAL****1.01 SECTION INCLUDES**

- A. Wall switches
- B. Receptacles
- C. Device plates and decorative box covers

**1.02 RELATED SECTIONS**

- A. Section 26 05 32 - Boxes

**1.03 REFERENCES**

- A. NECA - Standard of Installation
- B. NEMA WD 1 - General Requirements for Wiring Devices
- C. NEMA WD 6 - Wiring Device - Dimensional Requirements
- D. NFPA 70 - National Electrical Code

**1.04 SUBMITTALS FOR REVIEW**

- A. Product Data: Provide manufacturer's catalog information showing dimensions, colors, and configurations.

**1.05 QUALIFICATIONS**

- A. Manufacturer: Company specializing in manufacturing the Products specified in this section with minimum three years documented experience.

**1.06 REGULATORY REQUIREMENTS**

- A. Provide products listed and classified by Underwriters Laboratories, Inc., as suitable for the purpose specified and indicated.

**1.07 EXTRA MATERIALS**

- A. Furnish two of each style, size, and finish wall plate.

**PART 2 PRODUCTS****2.01 WIRING DEVICES**

- A. Wiring devices shall be of the same manufacturer insofar as possible. Devices shall be specification grade, switches and receptacles shall be rated 20 amperes, and receptacles shall be grounding type.
- B. Devices shall be side wired only.
- C. Except as otherwise specified on the drawings, wiring devices shall be Hubbell, Pass & Seymour, Cooper, or Leviton and shall be in accordance with the following schedule:

Device	Hubbell Catalog #	Pass & Seymour Catalog #	Cooper Catalog #	Leviton Catalog #
Single Pole Switch	1221	20AC1	1221	1221-2
Single Pole Switch w/pilot light (120V)	1221-PLC	20AC1-CPL	1221ILC	1221-PLC
2-pole Switch	1222	20AC2	1222	1222-2
3-way Switch	1223	20AC3	1223	1223-2
4-way Switch	1224	20AC4	1234	1224-2
Duplex Receptacle, Standard	5252	5262	5252	5252
Duplex Receptacle, Hospital Grade	8200	9200-HG	8200	8200
Duplex Receptacle, GFI	GF-5262	1591F	GF5292	6598

Device	Hubbell Catalog #	Pass & Seymour Catalog #	Cooper Catalog #	Leviton Catalog #
Duplex Receptacle, Isolated Ground	IG5252	IG6200	IG5262	5262-IG
Duplex Receptacle, Surge-Protected	IG5252-IS	G6262-ISP	IG5262S	N/A
Single Receptacle (15A, 125V)	5251	5261	5251	5251
Duplex Receptacle (20A, 125V)	5352	5362	5352	5352
Single Receptacle (20A, 125V)	5351	5361	5351	5351
Single Receptacle (30A, 125V)	9308	5920	5716N	5371
Single Receptacle (30A, 250V)	9330	5930	5700N	5372
Single Receptacle (30A, 125/250V)	9430	5744	9344N	278
Single Receptacle (50A, 250V)	9367	5950	5709N	5374
Single Receptacle (50A, 125/250V)	9450	5754	7985N	279

- D. Wiring device colors shall match existing.
- E. Where only one receptacle, single or duplex, is supplied by a branch circuit (dedicated circuit), the receptacle shall have the same ampere rating as the overcurrent protective device ahead of the circuit.
- F. Where receptacles are provided for equipment not having grounding-type cords and cord caps, the Contractor shall furnish and install new cords and cord caps on equipment to match new receptacles.
- G. Key operated switches shall be same as above except with lock type mechanism. All switches shall use the same key.
- H. Weatherproof devices shall be the same as standard devices except with diecast lockable weatherproof plate equal to Intermatic #WP1010HMC.
- I. Switch and receptacle combinations shall be devices as above in a 2-gang box.
- J. Flush floor power outlets shall be grounded duplex outlets with cast box and brass coverplate equal to Hubbell #B2537 with #S3725. Pedestal type floor fittings shall include duplex or double duplex outlets as indicated with satin chromium finish and cover plates.
- K. Flush floor telephone outlet covers shall be brass with two concentric openings with screw type plugs. Model numbers shall be as indicated on the drawings.
- L. Ground fault interrupting receptacles shall be duplex type with "Test" and "Reset" buttons. Receptacle shall have feed-through provisions for protection of downstream receptacles. Unit shall be complete with cover plate. Receptacles located on the building exterior, in toilet rooms, and elsewhere as shown on the drawings shall be GFI type. Provide cast weatherproof cover plates with hinge on top for receptacles on the building exterior.

**2.02 DEVICE PLATES**

- A. Device boxes and blanked outlets shall have stainless steel plates equal to Sierra S-Line. Blank outlet plates shall be factory marked to identify the system to which it is connected. Stainless steel plates shall be 0.04 inch thick with #302 satin finish.
  - 1. When new devices are installed within rooms with existing wiring devices, devices and device plates shall match existing devices to the fullest extent possible.



**PART 3 EXECUTION****3.01 EXAMINATION**

- A. Verify that outlet boxes are installed at proper height.
- B. Verify that wall openings are neatly cut and will be completely covered by wall plates.
- C. Verify that floor boxes are adjusted properly.
- D. Verify that branch circuit wiring installation is completed, tested, and ready for connection to wiring devices.

**3.02 PREPARATION**

- A. Provide extension rings to bring outlet boxes flush with finished surface.
- B. Clean debris from outlet boxes.

**3.03 INSTALLATION**

- A. Install devices plumb and level.
- B. Install switches with OFF position down.
- C. Install galvanized steel plates on outlet boxes and junction boxes in unfinished areas, above accessible ceilings, and on surface mounted outlets.
- D. Unless otherwise indicated, switches and receptacles shall be oriented vertically, except that horizontal orientation shall be permitted above counters where vertical space is constricted. Weatherproof receptacles shall be mounted horizontally with the hinge at the top.
- E. Unless otherwise indicated, switches shall be mounted with center at 48 inches above the floor. Over counter receptacles shall be mounted with center 8 inches above counter top or higher where required to clear backsplash. Unless otherwise indicated, other receptacles shall be mounted with center at 16 inches above floor. Receptacles for equipment shall be mounted at a height appropriate for connection to the equipment.
- F. Receptacles for electric water coolers shall be concealed behind the water cooler enclosure.
- G. Where vertically oriented, receptacles shall be installed with the grounding slot at the top, except above counters where the grounding slot shall be at the bottom. Where horizontally oriented, receptacles shall be installed with the grounding slot to the right.
- H. Wiring shall be connected to the side wiring terminals on wiring devices.

**3.04 FIELD QUALITY CONTROL**

- A. Inspect each wiring device for defects.
- B. Operate each wall switch with circuit energized and verify proper operation.
- C. Verify that each receptacle device is energized.
- D. Test each receptacle device for proper polarity.
- E. Test each GFCI receptacle device for proper operation.

**3.05 ADJUSTING**

- A. Adjust devices and wall plates to be flush and level.

**3.06 CLEANING**

- A. Clean exposed surfaces to remove splatters and restore finish.

**END OF SECTION 26 2726**



**SECTION 26 2727  
SUPPORTING DEVICES**

**PART 1 GENERAL****1.01 SECTION INCLUDES**

- A. Conduit and equipment supports
- B. Anchors and fasteners

**1.02 REFERENCES**

- A. NECA Standard of Installation (National Electrical Contractors Association)
- B. NFPA 70 - National Electrical Code

**1.03 SUBMITTALS FOR REVIEW**

- A. Submit under provisions of Section 26 01 02.
- B. Product Data: Provide manufacturer's catalog data for fastening systems.

**1.04 PROJECT FINALIZATION**

- A. Submit under provisions of Section 26 01 02.
- B. Operation and Maintenance Data: Include manufacturer's descriptive literature, installation instructions, maintenance and repair data, and parts listing.

**1.05 QUALITY ASSURANCE**

- A. Conform to requirements of NFPA 70.
- B. Products: Listed and classified by Underwriters Laboratories, Inc. as suitable for the purpose specified and indicated.

**PART 2 PRODUCTS****2.01 PRODUCT REQUIREMENTS**

- A. Materials and Finishes: Corrosion resistant.
- B. Select materials, sizes, and types of anchors, fasteners and supports to carry the loads of equipment and conduit, including weight of wire in conduit.
- C. Anchors and Fasteners:
  1. Concrete Structural Elements: Use precast inserts, expansion anchors and preset inserts.
  2. Steel Structural Elements: Use beam clamps, spring steel clips, and welded fasteners.
  3. Concrete Surfaces: Use self drilling anchors and expansion anchors.
  4. Hollow Masonry, Plaster, and Gypsum Board Partitions: Use toggle bolts and hollow wall fasteners.
  5. Solid Masonry Walls: Use expansion anchors and preset inserts.
  6. Sheet Metal: Use sheet metal screws.
  7. Wood Elements: Use wood screws.

**2.02 FORMED STEEL CHANNEL**

- A. Manufacturers:
  1. B-Line or equal
- B. Description: Galvanized steel or zinc plated.

**PART 3 EXECUTION****3.01 INSTALLATION**

- A. Locate and install anchors, fasteners, and supports in accordance with NECA "Standard of Installation".
  1. Do not fasten supports to pipes, ducts, mechanical equipment, or conduit.
  2. Do not drill or cut structural members.
  3. Obtain permission from Architect/Engineer before drilling or cutting structural members.

- B. Fabricate supports from structural steel or formed steel members. Rigidly weld members or use hexagon-head bolts to present neat appearance with adequate strength and rigidity. Use spring lock washers under all nuts.
- C. Secure floor mounted equipment to floor with machine bolts and anchors in accordance with the manufacturer's recommendations and seismic requirements.
- D. Install surface-mounted cabinets and panelboards with minimum of four (4) anchors. Cabinets and panelboards shall not be secured to hollow masonry, plaster, or gypsum board partitions - provide additional blocking as required between studs to securely anchor the cabinet or panelboard.
- E. In wet and damp locations use steel channel supports to stand cabinets and panelboards 1 inch off wall.
- F. Use sheet metal channel to bridge studs above and below cabinets and panelboards recessed in hollow partitions.

**END OF SECTION 26 2727**

**SECTION 26 5000  
LIGHTING**

**PART 1 GENERAL****1.01 SECTION INCLUDES**

- A. Interior luminaires and accessories
- B. Emergency lighting units
- C. Exit signs
- D. Ballasts
- E. Fluorescent dimming ballasts and controls
- F. Fluorescent lamp emergency power supply
- G. Lamps
- H. Luminaire accessories

**1.02 RELATED SECTIONS**

- A. Section 09 91 00 - Painting
- B. Section 26 27 26 - Wiring Devices

**1.03 REFERENCES**

- A. ANSI C78.379 - Electric Lamps - Incandescent and High-Intensity Discharge Reflector Lamps - Classification of Beam Patterns
- B. ANSI C82.1 - Ballasts for Fluorescent Lamps - Specifications
- C. ANSI C82.4 - Ballasts for High-Intensity Discharge and Low Pressure Sodium Lamps (Multiple Supply Type)
- D. NEMA WD 6 - Wiring Devices-Dimensional Requirements
- E. NFPA 70 - National Electrical Code
- F. NFPA 101 - Life Safety Code

**1.04 SUBMITTALS FOR REVIEW**

- A. Submit under provisions of Section 26 01 01 and as noted below
  - 1. Prepare submittals promptly and deliver to architect, leaving sufficient time for adequate review and possible resubmittals without jeopardizing project schedule.
  - 2. Make initial submittal in complete package at one time. Incomplete submittal will be returned unreviewed. Resubmittal must contain all resubmittals at one time. Do not resubmit approved fixtures.
  - 3. Architect will review only one initial submittal and one resubmittal for each item.
  - 4. Do not release orders until review of submittals is complete.
  - 5. Review of submittals and architect's approval notations are for general conformance with information given and design concept expressed in contract documents. Contractor is responsible for dimensions, quantities, methods of construction, coordination between trades, and detailed compliance with contract documents.
  - 6. Architect's approval does not authorize any deviation from contract documents unless each deviation is circled by contractor on the submittal and marked "OK" by the Architect.
- B. "Prior Approval" pre-qualification before bid: Manufacturers other than those listed may request pre-qualification to bid. To request pre-qualification, submit complete materials to architect for review at least ten calendar days before bid date.
  - 1. Standard products: For each light fixture type, submit the following:
    - a. Product data sheets
    - b. Photometric report from independent testing laboratory, calculated according to illuminating Engineering Society standards, showing:
      - 1) Candela distribution curves and tables in lengthwise, crosswise, and 45 degree horizontal planes through fixture and 5 degree increments of vertical angles.

- 2) Zonal lumen summary in 10 degree increments
- 3) Efficiency
- 4) Spacing ratios
- 5) Lamp shield angles
- 6) Coefficients of utilization
- 7) Average luminance at lengthwise, crosswise, and 45 degree, 55 degree, 65 degree, 75 degree, and 85 degree vertical viewing angles.
- c. For site lights, classroom lights, and chalkboard/wallwash lights, submit computer calculations to demonstrate equal performance to specified products. Verify with architect the required calculations and assumptions to be used (dimensions, room reflectance, lamp lumen, light loss factor, etc.). For classroom lights, calculate light level on a horizontal desktop at a height of 2 feet 6 inches AFF, on ceiling, and on all four walls with a 2 foot grid of points. For chalkboard/wallwash lights, calculate light level on entire wall with a 2 foot grid of points.
- d. Samples when requested by architect.
- 2. If architect determines that manufacturer is pre-qualified to bid, architect will issue an addendum to contract documents indicating additional manufacturer's name. Pre-qualification does not relieve contractor from full compliance with contract documents.
- 3. After-bid substitutions: None. Manufacturers other than those listed may request pre-qualification to bid as noted above.
- C. Shop Drawings: Indicate dimensions and components for each luminaire that is not a standard product of the manufacturer.
- D. Product Data: Provide dimensions, ratings, and performance data.

#### 1.05 PROJECT FINALIZATION

- A. Submit under provisions of Section 26 01 02.
- B. Luminaires shall be provided with new lamps prior to final acceptance of the project. Any lamps used for more than ninety (90) days as temporary lighting shall be replaced by the Contractor.
- C. Operation and Maintenance Data: Include manufacturer's descriptive literature, operating instructions, installation instructions, maintenance and repair data, and parts listing.
- D. Warranty: Submit manufacturer's warranty and ensure forms have been filled out in Owner's name and registered with the manufacturer.

#### 1.06 QUALITY ASSURANCE

- A. Conform to requirements of NFPA 70.
- B. Manufacturer: Company specializing in manufacturing the Products specified in this section with minimum three years documented experience.
- C. Product: Listed and classified by Underwriters Laboratories, Inc. as suitable for the purpose specified and indicated.

#### 1.07 WARRANTY

- A. Submit under provisions of Section 26 01 02.
- B. Interior luminaires furnished under this section shall be guaranteed against defective parts or workmanship for a period of one (1) year after the date of substantial completion. The guarantee shall cover full parts and labor.
- C. Products: Listed and classified by Underwriters Laboratories, Inc. as suitable for the purpose specified and indicated.

### PART 2 PRODUCTS

#### 2.01 LUMINAIRES

- A. Furnish Products as scheduled on the Lighting Fixture Schedule. Refer to Section 26 01 02 for substitutions and product options.

- B. Provide luminaires complete with lamps, tubes, ballasts, brackets, hardware, poles, bases, etc. as required for a complete and operable lighting system.
- C. Luminaires shall have manufacturer's standard finish unless otherwise noted. Luminaires installed on exterior of building shall be weather-resistant design and display a "Damp" or "Wet" location label as required per applicable codes. Fixtures installed on low density tile shall be designed for direct surface mounting.
- D. Fluorescent luminaires installed on the exterior of the building and/or in unheated spaces shall have cold weather ballasts.
- E. Recessed or semi-recessed luminaires shall be provided to be compatible with ceilings as installed. Furnish and install frames where required for proper installation. Recessed incandescent luminaires shall be thermally protected. Integrally ballasted luminaires shall have thermally protected ballasts.
- F. Luminaires requiring caps, mounting spacers, hold-down clips or other accessory items shall be furnished complete with same, whether the catalog numbers shown include such items or not.
- G. Luminaires shall be designed or gasketed to eliminate any light leaks.

## 2.02 EXIT SIGNS

- A. Exit lights shall be self-contained, fully automatic AC/DC units with sealed pure lead battery and solid state charger. AC operating voltage shall be 120 or 277 volts as required to match area lighting. Lamps shall be LED type unless otherwise indicated on the drawings.

## 2.03 FLUORESCENT DIMMING BALLASTS

- A. Fluorescent dimming ballasts for T-5, T-8, and T-12 lamps:
  1. Manufacturers: Refer to Lighting Fixture Schedule.
  2. Description: Refer to Lighting Fixture Schedule.
  3. Voltage: Match luminaire voltage.

## 2.04 FLUORESCENT LAMP EMERGENCY POWER SUPPLY

- A. Fluorescent luminaires indicated as emergency units shall be complete with an automatic battery pack assembly to operate one lamp. Installation shall be done at the luminaire manufacturer's factory. Unit may be field installed if installation does not void UL label of battery pack or luminaire. Battery pack assemblies for T8 lamps shall provide an initial 1350 lumen, a minimum of 800 lumen of light output after 1½ hours of operation, and shall be equal to Bodine B50 series. Battery pack assemblies for 2-pin twin, quad, or triple twin tube lamps shall provide an initial 950 lumen (for 26W lamp), a minimum of 570 lumen of light output after 1½ hours of operation, and shall be equal to Bodine B426 series. Battery pack assemblies for 4-pin twin, quad, or triple twin tube lamps shall provide an initial 750 lumen (for 26W lamp), a minimum of 450 lumen of light output after 1½ hours of operation, and shall be equal to Bodine B94C series. Luminaire shall have valid UL label with battery-pack installed and be warranted for five years.
- B. Include TEST switch and AC ON indicator light, installed to be operable and visible from the outside of an assembled luminaire.

## 2.05 LAMPS

- A. Lamp Manufacturers: General Electric, Osram/ Sylvania, Philips, or approved equal. Where proprietary lamps are indicated by manufacturer's name on the Lighting Fixture Schedule, they shall be furnished exactly as specified.

## PART 3 EXECUTION

### 3.01 INSTALLATION

- A. General:
  1. Install light fixtures securely, level, plumb, aligned, and in straight rows. Light fixtures must be installed so they do not shift during relamping or adjustment.
  2. Install in accordance with manufacturer's instructions.

3. Point-source fixtures: Locate as dimensioned, or in center of tile or on tile joint as drawn; ¼ inch max. off-center tolerance.
  4. Linear fixtures: 1/8 inch max. off-of-true horizontal or vertical variation in any 8 feet portion of run.
  5. Install fixtures with lamps oriented in same direction within each room.
- B. Recessed Fixtures:
1. Point-source fixtures: Install hanger bars to adjacent ceiling framing members and fasten securely.
  2. Install bottom of housing aligned with finished ceiling.
  3. Seismic Supports:
    - a. Slack wires for fixtures in suspended ceilings: #12 solid wires from fixture to structure above, pulled tight and secured with a minimum of four wire turns at top and bottom. Slack wires must comply with applicable portions of Section 09511: Suspended Acoustic Ceilings.
    - b. Incandescent point-source fixtures: One (1) slack wire.
    - c. Compact fluorescent point-source fixtures: One (1) slack wire.
    - d. HID point-source fixtures: Slack wire at each of two (2) diagonal corners.
    - e. Fluorescent troffers: Slack wire at each of two (2) diagonal corners if fixture weighs less than 56 pounds; slack wire at each of four (4) corners if fixture weighs more than 56 pounds.
    - f. Hold-down clips for fluorescent troffers: Two (2) on each long side (four total per fixture).
  4. Keep ceiling insulation at least 3 inches away from fixture unless approved for insulated ceiling.
  5. Install trims after painting of spaces. Install trims tightly, with no gaps or light leaks.
- C. Ceiling-Mounted and Pendant Fixtures:
1. Supports: Provide support for suspension points so fixtures can be installed securely, including horizontal bars to ceiling members and diagonal wires to structure as required. In suspended grid ceilings, use Peerless Truegrid or equal suspension brackets.
  2. Fixture weight less than 50 pounds at each suspension point: Hang from strap or stud on outlet box, or at non-feed points, provide ¼ inch-20 stud projecting ¾ inch below ceiling.
  3. Fixture weight 50 pounds or more at each suspension point: Hang directly from structure, either independent of outlet box or from stud extending through outlet box to structure.
- D. Wall-Mounted Fixtures:
1. Mounting heights, indicated are from finished floor to centerline of outlet box or recessed housing, unless noted otherwise.
  2. Provide backing in wall as required. Fixtures must not droop or tilt away from wall.
  3. Wet locations: For surface-mounted fixtures, install continuous bead of sealant between fixture and wall. For recessed fixtures, install sealant to fill gaps between recessed housing and wall.
- E. Pole-Mounted or Base-Mounted Fixtures:
1. Install galvanized nuts and washers above and below mounting plate for leveling. After leveling, pack grout between mounting plate and concrete footing, and cut off tops of anchor bolts so base cover fits over entire base assembly.
  2. ¼ inch maximum out-of-plumb tolerance for assemblies up to 20 feet high; ½ inch maximum if taller.
  3. Touch up paint after poles are installed.

### 3.02 INSTALLATION OF LUMINAIRES

- A. Luminaires shall be installed as indicated and in accordance with the manufacturer's recommendations. Where mounting dimensions are not shown, refer to Architectural drawings for installation details. Luminaires shall be symmetrically located unless otherwise indicated. Luminaire locations shall be exactly moduled with ceiling tile where same occurs.
- B. Surface-mounted luminaires shall be supported from outlet box fixture studs, mounting brackets or mounting straps or shall be secured directly to the structural system. Outlet boxes and mounting brackets (or straps) shall be secured to a joist or similar structural unit or to an



- approved metal support which is secured to such a structural unit. The use of toggle bolts for luminaire support will not be permitted.
- C. Pendant or stem-mounted luminaires shall be suspended from single stem assemblies consisting of adjustable stem, ceiling canopy, self-aligning ball coupling at the canopy into which the stem is fastened (allowing the luminaires to swing freely) and fixture studs in 4 inch octagonal outlet boxes where the luminaires are connected electrically. Mounting brackets for hanger stems that do not contain wiring may be fastened, as above, to dummy outlet boxes or shall be securely fastened to the structural ceiling. Outlet boxes and/or stem-mounting brackets shall be secured to a joist or similar structural unit or to an approved metal support which is secured to such a structural unit. Suspended luminaires shall hang level regardless of uneven or sloping ceilings. Maximum hanger spacing for continuous-row fluorescent luminaires shall be 8 feet. Maximum hanger spacing shall be 4 feet where luminaires having 4 foot channels are used. Twin stem assemblies will not be permitted.
  - D. Pendant or stem-mounted luminaires shall be provided with matching stems at all support locations. Each stem shall be provided with an internal safety cable securely fastened to the luminaire and to a structural member and shall be capable of supporting ten (10) times the luminaire weight.
  - E. Luminaires weighing more than fifty (50) pounds shall be supported independently of the junction box provided for electrical connection.
  - F. Wall-mounted luminaires shall be supported by wall brackets secured to luminaire studs in the outlet boxes or to outlet box "ears".
  - G. Recessed luminaires shall be complete with all required hardware and accessories in each case. Where lay-in luminaires cannot be used in suspended ceilings, recessed luminaires shall be installed complete with bar hangers and shall be supported from the ceiling suspension system.
  - H. Where luminaires are installed in a de-mountable type ceiling, provide a length of flexible conduit and proper conductors such that luminaire may be relocated four feet in any direction without changing the electrical connection.
  - I. Recessed luminaires in fire rated ceilings shall either be approved for the fire rating of the ceiling or shall be protected by a fire rated housing approved by local authorities and manufacturer. Approval must be in writing and must conform to UL approved assemblies. (Refer to Architect's drawings for UL assembly numbers.)
  - J. Install clips to secure recessed grid-supported luminaires in place.
  - K. Where fluorescent luminaires are installed in continuous rows, provide a separate wireway for branch circuit conductors or use conductors with insulation rated for the temperature and other conditions encountered.
  - L. Installation of luminaires in Mechanical rooms shall be coordinated with the ductwork and other obstructions. Provide special hangers, as required.
  - M. All adjustable luminaires shall be aimed as directed by the Architect/Engineer. All luminaires shall be aimed at night.
  - N. Bond products and metal accessories to branch circuit equipment grounding conductor.

### 3.03 WIRING

- A. Luminaires shall be wired with type TFFN wire. Minimum size shall be No. 16—use larger wire where indicated or where recommended by luminaire manufacturer. Fluorescent troffers shall be connected with branch circuit conductors run in flexible metal conduit not more than 6 feet in length.
- B. Provide luminaires with wiring for two-level lighting as indicated. Where 3- or 4-lamp luminaires are used, connect inside lamps to one ballast and outside lamps to one ballast.
- C. Exit signs, emergency lighting units and fluorescent luminaire emergency power packs shall be connected to an unswitched leg of the lighting circuit in the area as indicated on the drawings.
- D. Bond luminaires and metal accessories to the branch circuit grounding conductor.

**3.04 ADJUSTING AND CLEANING**

- A. Aim and adjust luminaires as indicated, or if not indicated, as directed by the Owner's representative.
- B. Position exit sign directional arrows as indicated.
- C. Remove dirt and debris from enclosures.
- D. Clean photometric control surfaces as recommended by manufacturer.
- E. Clean finishes and touch up damage.

**3.05 NOISY BALLASTS**

- A. The Owner's representative shall determine which ballasts are excessively noisy and to be replaced at no cost to the Owner.

**3.06 PROTECTION OF FINISHED WORK**

- A. Relamp luminaires that have failed lamps at Substantial Completion.

**END OF SECTION 26 5000**

# EXHIBIT "B.3"

**University of Idaho**  
 WWAMI TI at Gritman MOB  
 Sprenger Construction VE and other Pricing Options Rec'd 28 JAN 17 - **UPDATED 9 MAR 17** Value Engineering Matrix / Tracking / Summary  
 9 MAR 17

RECAPITULATION							
			Item				
			Original Bid 21 Dec 16			4,008,616.00	
			Less Original 30 % Contingency			(925,065.00)	
			Subtotal			3,083,551.00	
			Less Category 1.0 thru 3.0 Savings			(505,939.20)	
			Plus Category 0.0 Costs			62,649.00	
			Subtotal			(443,290.20)	
			Revised Costs			2,640,260.80	
			Revised 10% Design & Est Contingency			264,026.08	
			Revised Total			2,904,286.88	

Orig #	Accept Decline	Cat.	Value Engineering Item	Origin	Discipline's Affected	Target Savings	Remarks	#
			TOTAL CATEGORY 0.0 ITEMS (cost + items)			<b>\$62,649</b>		
			TOTAL CATEGORY 1.0 ITEMS			\$233,613		
			TOTAL CATEGORY 2.0 ITEMS			\$218,113		
			TOTAL CATEGORY 3.0 ITEMS			\$54,213		
			TOTAL CATEGORY 4.0 ITEMS			\$50,213		
			TOTAL CATEGORIES 1.0 Thru 3.0			\$505,939		
			TOTAL ALL SAVINGS CATEGORIES			\$556,152		

16		0.0	Explore substitution of aluminum storefront system at main suite entry in lieu of structural glazing.	UI	Arch'l	\$0	No pricing yet. All believe this will be an increase.	
34		0.0	Need to account for restroom delta due to increased occupancy load.	UI	Arch'l Mech'l	\$51,974	<b>Update 27 Feb 17: Per Sprenger e-mail, dated 2017-02-24. Added drywall / studs / tile</b>	
39		0.0	Rubber Base	S	Arch'l	\$2,500	Price Increased between December and January.	

## University of Idaho

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Sprenger Construction VE and other Pricing Options Rec'd 28 JAN 17 - **UPDATED 9 MAR 17**  
9 MAR 17

Value Engineering Matrix / Tracking / Summary

33	0.0	Verify concrete floor finish bid accounts for RetroPlate process.	FLAD	Arch'l	\$2,675	Verified
40	0.0	Add for Add'l Scullery Sink	S	Plumb	\$5,500	Add per email dtd 9 Feb 17
0	1.0	UI to carry Change Order Contingency. Sprenger to carry Design & Estimating Contingency.	UI	Gen'l	\$0	Sprenger will carry 10% Design and Estimating Contingency at this point. Calculated above.
2	1.0	Eliminate Skylights and associated roofing, structure, framing & drywall.	UI	Arch'l	\$12,537	\$2,221 Skylight Frames; \$8,316 Roofing; \$2,000 Drywall
3	1.0	Reduce Glass Marker Board product specification from 1/2" thick to 1/4" thick or perhaps 1/8" thick laminated.	S	Arch'l	\$53,268	Savings 9 Feb 17. Per FLAD, we can use 1/4" thickness given the size of the boards specified. 1/8" thick not an option.
5	1.0	Specify different carpet.	S	Arch'l	\$7,664	Shaw Carpet. What product line is this savings based upon?
6	1.0	Substitute VCT for Mondo Rubber Flooring product.	S	Arch'l	\$38,385	VCT specification?
19	1.0	Substitute alternate sink for Mortec sinks at labs.	S	Mech'l	\$0	No Alternates found 9 Feb 17.
20	1.0	Substitute alternate eye wash stations for Guardian eye wash stations.	S	Mech'l	\$1,759	
21	1.0	Eliminate HEPA filters at the diffusers	S	Mech'l	\$0	Included in Mechanical Savings, Item #35
22	1.0	Substitute powder coated or aluminum grilles for stainless steel grilles	S	Mech'l	\$0	Included in Mechanical Savings, Item #35
24	1.0	Exam lights become OF/CI items.	UI	Elect'l	\$105,600	UI Will need to include this item and a cost allowance in the UI FFE package.
25	1.0	Reduce STC of Skyfold door.	S	Arch'l	\$8,000	(Classic 51 in lieu of 60)
32	1.0	Substitute Brand X metal reglets for Fry reglets	FLAD	Arch'l	\$0	Savings under \$100. 9 Feb 17.
41	1.0	Deduct for Eliminating 3rd Double Sink	S	Plumb	\$6,400	
8	2.0	No sound absorption material at bottom of clouds, just batt insulation on top of the clouds.	S	Arch'l	\$23,090	Update: 23 Feb 17: Per Sprenger e-mail, dated 2017-02-23.
9	2.0	Revised cloud edge detail.	S	Arch'l	\$0	Included as part of item 8. Per Sprenger e-mail, dated 2017-02-23.
10	2.0	Eliminate recessed curtain track, use surface mount track instead.	S	Arch'l	\$10,000	Update 23 Feb 17: Dupree pricing for item 10 & 11 was \$66,038 combined. Confirmed per Sprenger e-mail, dated 2017-02-22.

**University of Idaho**

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Sprenger Construction VE and other Pricing Options Rec'd 28 JAN 17 - **UPDATED 9 MAR 17**  
9 MAR 17

Value Engineering Matrix / Tracking / Summary

11	2.0	Substitute revised curtain fabric selection for specified product.	S	Arch'l	\$26,038	<b>Update 23 Feb 17:</b> Dupree pricing for item 10 & 11 was \$66,038 combined. <b>Confirmed per Sprenger e-mail, dated 2017-02-22.</b>
14	2.0	Eliminate steel floor at main suite entrance.	UI	Arch'l	\$5,000	<b>Update 23 Feb 17:</b> Per Sprenger e-mail, dated 2017-02-23.
15	2.0	Eliminate Steel wall and ceiling "wrap" at main suite entrance.	UI	Arch'l	\$0	<b>Update 23 Feb 17:</b> Per Sprenger e-mail, dated 2017-02-23. Included as part of item 14 above.
26	2.0	Substitute alternate manufacturer for overhead door for specified Skyfold. (at reduced STC).	S	Arch'l	\$30,000	<b>Update 23 Feb 17:</b> Per Sprenger e-mail, dated 2017-02-22. Modernfold vertical opening partition.
30	2.0	Eliminate the desire to finish the public corridor open to structure above. Only open to structure at elevator lobby. Remainder of public corridor ceiling finished per original shell and core plans.	UI	Arch'l	\$2,000	<b>Update 3 Mar 17:</b> \$2,000 savings in paint. <b>Verify if any other savings are to be had.</b>
31	2.0	Substitute carpet for stained concrete in public corridor (stained concrete at elevator lobby only).	S	Arch'l	\$2,065	<b>Update 3 Mar 17:</b> Awaiting pricing. <b>Need Pricing</b>
35	2.0	Sprenger line item for Mechanical & Plumbing is \$782k. FLAD's estimate for Mechanical & Plumbing is \$601k. The delta is \$181k - or about 30% of FLAD's estimate. Can these costs be reconciled? What thoughts are there as to the difference?	UI	Mech'l	\$79,920	
36	2.0	Sprenger line item for Electrical is \$630k. FLAD's estimate for Electrical is \$579k. The delta is \$51k - or about 8% of FLAD's estimate. Fairly close, but can these costs be reconciled further?	UI	Elect'l	\$0	
38	2.0	Eliminate Testing and Balance Allowance	S	Mech'l	\$40,000	Per Gropp
43	2.0	Additional Savings in Drywall, Paint, & Finishes	S	Arch'l	\$0	<b>No additional savings</b>

## University of Idaho

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Sprenger Construction VE and other Pricing Options Rec'd 28 JAN 17 - **UPDATED 9 MAR 17**  
9 MAR 17

Value Engineering Matrix / Tracking / Summary

12	3.0	Simplify drywall detail F/A-901 to eliminate double studs and ledge at 10" AFF.	S	Arch'l	\$6,400	Perhaps use a reglet to create the paint break rather than the ledge.
28	3.0	Explore substitutions and possible savings in the lighting package.	S	Elect'l	\$0	No additional savings. <b>9 Feb 17.</b>
29	3.0	Potentially relocate just one column (at Classroom) leave the two columns targeted for relocation in the Anatomy Lab "as is."	UI	Struct	\$21,991	Estimate 60% of the savings priced in Item 37. Eliminates two column relocations - requires we keep the column relocation at the classroom.
42	3.0	Explore deleting dedicated back-up HVAC Unit	UI	Mech'l	\$15,000	<b>per email 9 Feb 17.</b>
44	3.0	Moscow Glass & Awning	S	Arch'l	\$0	Duplicate to Item 3. <b>9 Feb 17.</b>
13	3.0	Substitute different ACT product and/or size at the Anatomy Lab.	S	Arch'l	\$10,822	Clean Room 870 Optima 3252. <b>9 Feb 17.</b>
17	4.0	Substitute alternate water heater for water heater specified.	S	Mech'l	\$2,742	
18	4.0	Eliminate - or reduce capacity - of storage tank at hot water heater	S	Mech'l	\$1,120	All believe City Plan Review will not allow this item.
23	4.0	Substitute alternate manufacturer for exam lights.	S	Elect'l	\$0	Not Priced.
37	4.0	Eliminate All Column Relocations	S	Struct	\$36,652	Sprenger provided a price to eliminate all column relocations.
4	4.0	Substitute Standard Marker Boards for Glass Marker Boards.	S	Arch'l	\$5,699	<b>Savings 9 Feb 17.</b>
27	4.0	Eliminate overhead door and provide side stack operable wall instead.	UI	Arch'l	\$0	<b>What is potential savings if go to a horizontal stackable operable partition system.</b>
7	2.0	Substitute different sound absorption material for specified sound absorption material at clouds.	S	Arch'l	\$4,000	<b>Update: 23 Feb 17:</b> Per Sprenger e-mail, dated 2017-02-23.

Concept 2B: Boise, backlit cut metal letters on pins  
- No seal

WWAMI  
MEDICAL EDUCATION

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University  
of Idaho









**BUSINESS AFFAIRS AND HUMAN RESOURCES**  
**APRIL 20, 2017**

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**UNIVERSITY OF IDAHO**

**SUBJECT**

Request for waiver of institutional funds cap for Athletics

**REFERENCE**

February 2017

Idaho State Board of Education (Board) reviewed University of Idaho (UI) request for four-year waiver of Athletic institutional fund usage limit. Board asked UI to return for additional consideration, pending additional analysis of projected athletic budgets.

**APPLICABLE STATUTE, RULE, OR POLICY**

Idaho State Board of Education (Board) Governing Policies & Procedures, Section V.X.3.b.

**BACKGROUND/ DISCUSSION**

The University of Idaho (UI) Athletics Department (Athletics) is projecting an operating deficit of approximately \$1 million for the current fiscal year (FY2017) unless additional funding can be provided. No deficit currently exists, but is projected by the end of the current fiscal year.

The projected deficit is being driven primarily by anticipated shortfalls in several categories of revenue. During FY2016, the football team played two guarantee games against the University of Southern California and Auburn University. These two games generated guarantee revenue of \$2,100,000. During the current fiscal year, the football team again played two guarantee games against the University of Washington and Washington State University. These two games generated guarantee revenue of \$1,575,000. This schedule change created a \$525,000 decrease in game guarantee revenue.

Athletics donations are anticipated to be down slightly for FY2017. Athletics projects that contributions to the Vandal Scholarship Fund (VSF) will be down \$150,000 from prior fiscal year levels, and non-VSF donations are projected to be down \$200,000 from prior fiscal year levels. This decrease is attributed, in part, to the move from the Football Bowl Subdivision (FBS) to the Football Championship Subdivision (FCS).

Also, student athletic activity fee revenue has been declining steadily since FY2012. The updated estimate for FY2017 student athletic activity fee revenue is \$1,802,000 (which is \$528,000 under FY2012 levels).

Within the last few months, two football events have generated additional revenue that will reduce the projected Athletics deficit. In December 2016, the Vandals were invited to compete in the Famous Idaho Potato Bowl. Participation in this

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game has generated additional net revenue to help offset the projected operating deficit. In addition, the Sun Belt Conference finished in 3<sup>rd</sup> place overall (within the Group of 5), while the Athletics Department had budgeted revenue associated with a 5<sup>th</sup> place finish. This improved conference standing has also generated additional revenue for the Athletics Department.

The FY2017 athletics caps for UI are \$2,973,100 for General Funds, \$1,266,100 for Gender Equity, and \$949,500 for Institutional Support. The grand total of all athletics caps is \$5,188,700.

To address the above-noted temporary shortfalls, and to smooth the university's transition from the FBS to the FCS and the accompanying adjustments to overall Athletics operations, UI is requesting authorization to tap additional available institutional funds to support athletic programs. The university requests Board approval of a one-time, one-year waiver of the FY2017 institutional funds cap, authorizing expenditures of not more than \$1,949,500 from available institutional funds. This flexibility will enable UI to avoid an overall athletic operating deficit in FY2017 and will sustain student athlete programs while the university adjusts its operations and budget plans over the next few years.

**IMPACT**

Allowing use of up to \$1 million in additional institutional funds in FY2017 will enable UI to maintain continuity of athletic operations while it realigns its programs to balance expenditures and revenues as it makes the FBS to FCS transition. Sufficient institutional funds (separate from General Fund and student athletic activity fee resources) are available for this one time outlay.

**STAFF COMMENTS AND RECOMMENDATIONS**

Under Board policy, Institutional Funds *"include, but are not limited to, auxiliaries, investment income, interest income, vending, indirect cost recovery funds on federal grants and contracts, and administrative overhead charged to revenue-generating accounts across campus. Institutional Funds do not include tuition and fee revenue."* Institutional reserves which accumulate from unexpended tuition and fees cannot be used within the Institutional Fund category for Athletics. The UI has confirmed that it has sufficient reserves within the "institutional funds" category to increase outlays by at least \$1 million.

Since the Board's February 2017 review of the UI's earlier (multi-year) waiver request, Board staff has coordinated with UI's administrative staff and has confirmed that deliberate planning is underway to adjust the institution's athletic programs and accompanying budgets in the grace period which will be provided if the Board approves the requested one-year Institutional Fund waiver. This flexibility will help avoid short-term disruptions to operations which would be necessary if the UI had to operate within the current FY2017 institutional fund limit.

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Staff will continue to work with UI counterparts to ensure that a viable, multi-year operating budget plan is put in place and presented to the Board. In the meantime, the Business Affairs and Human Resources Committee has directed staff to begin a systematic review of the Board's current policy on athletic limits. This review may eventually impact—but was not prompted by—the specific situation which is the basis of the UI's proposed waiver request.

Staff recommends approval.

**BOARD ACTION**

I move to approve the request by the University of Idaho to waive Board policy V.X.3.b. and allow the University of Idaho to temporarily increase its institutional funds athletics expenditure limit for FY2017 by an amount not to exceed \$950,500 (\$1,900,000 total); and that the university report on its revised athletics budget plans in conjunction with the institutions' annual athletic reports to the Board in April 2018.

Moved by \_\_\_\_\_ Seconded by \_\_\_\_\_ Carried Yes \_\_\_\_\_ No \_\_\_\_\_

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