MUST REMAIN ON JOB SITE

06.20.2024

GOOGLE
KIRKLAND URBAN LEVEL 5-6

ISSUE FOR PERMIT - ELECTRICAL

OWNER
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Kirkland, WA 98033

ARCHITECT/ENGINEER
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FOOD CONSULTANT
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PROJECT ADDRESS
400 URBAN PLAZA
KIRKLAND, WA 98033
BUILDING E

VICINITY MAP: *Locator*

NORTH REF



NOTICE
HOURS OF WORK: 7AM TO 8PM MON-FRI
9AM TO 6PM SAT. NO WORK SUNDAYS & HOLIDAYS (PER KZC SEC. 115.25)
Exceptions must be approved in writing by Planning Official

PROJECT AND CODE INFORMATION

ALL WORK UNDER THIS CONTRACT SHALL COMPLY WITH THE PROVISIONS OF THE DRAWINGS AND SHALL SATISFY ALL APPLICABLE CODES, ORDINANCES, AND REGULATIONS OF ALL GOVERNING BODIES INVOLVED. ALL PERMITS AND LICENSES NECESSARY FOR THE PROPER EXECUTION OF THE WORK SHALL BE SECURED AND PAID FOR BY THE CONTRACTOR INVOLVED.

SCOPE OF PROJECT: TENANT IMPROVEMENT ON THE FIFTH AND SIXTH FLOORS OF AN EXISTING SEVEN STORY BUILDING. THE WORK WILL INCLUDE THE CONSTRUCTION OF NEW NON-STRUCTURAL PARTITIONS, NEW SUSPENDED CEILINGS, AND NEW FINISHES THROUGHOUT AS PART OF ANOTHER PERMIT PACKAGE OUTLINED BELOW. THE OWNERS ACCESS CONTROL REQUIREMENTS WILL BE IMPLIMENT IN ACCORDANCE WITH APPLICABLE CODES AND ACCESS TO EXISTING EXITS. **THIS PROJECT WILL NOT IMPACT EXISTING OCCUPANCY CLASSIFICATION, LIFE SAFETY SYSTEMS OR EXITS, OR THE EXISTING CORE AND SHELL.**

GOVERNING CODES: 2021 WASHINGTON STATE BUILDING CODE (IBC)
2021 WASHINGTON STATE EXISTING BUILDING CODE (IEBC)
2021 WASHINGTON STATE MECHANICAL CODE (IMC)
2021 INTERNATIONAL FUEL GAS CODE (NATURAL GAS) (IFGC)
2021 UNIFORM PLUMBING CODE (UPC)
2021 WASHINGTON STATE ENERGY CODE - COMMERCIAL PROVISIONS (WSEC - COMMERCIAL)
2021 WASHINGTON STATE FIRE CODE (IFC)
2017 ICC A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES
2023 NATIONAL ELECTRICAL CODE

SCOPE OF WORK:	**TENANT IMPROVEMENT**
BUILDING ADDRESS:	400 URBAN PLAZA, KIRKLAND, WASHINGTON 98033
ZONING DESIGNATION:	CBD-5A (CENTRAL BUSINESS DISTRICT)
CONSTRUCTION TYPE:	IB
OCCUPANCY TYPE:	MAIN: B (BUSINESS) ACCESSORY: A-3 (ASSEMBLY), S (STORAGE)
FIRE PROTECTION:	FULLY SPRINKLED
NUMBER OF STORIES:	7

GROSS ENCLOSED AREA:
5TH FLOOR: 31,089 SF
6TH FLOOR: 31,099 SF
TOTAL: 62,188 SF

TOTAL OCCUPIED AREA:
5TH FLOOR: 31,089 SF
6TH FLOOR: 31,099 SF
TOTAL: 62,188 SF

OCCUPANCY CLASSIFICATIONS:

303 - ASSEMBLY GROUP A
- 303.1.1 - A SPACE USED FOR ASSEMBLY PURPOSES WITH AN OCCUPANT LOAD LESS THAN 50 PERSONS SHALL BE CLASSIFIED AS GROUP B OCCUPANCY.
- 303.1.2 - THE FOLLOWING SPACES SHALL NOT BE CLASSIFIED AS ASSEMBLY OCCUPANCIES.
  - A SPACE USED FOR ASSEMBLY PURPOSES WITH AN OCCUPANT LOAD LESS THAN 50 PERSONS AND ACCESSORY TO ANOTHER OCCUPANCY SHALL BE CLASSIFIED AS A GROUP B OCCUPANCY OR AS PART OF THAT OCCUPANCY.
  - A ROOM OR SPACE USED FOR ASSEMBLY PURPOSES THAT IS LESS THAN 750 SQ.FT. IN AREA AND ACCESSORY TO ANOTHER OCCUPANCY SHALL BE CLASSIFIED AS GROUP B OCCUPANCY OR AS PART OF THAT OCCUPANCY.

303.4 - ASSEMBLY GROUP A-3 - ASSEMBLY SPACES IN THIS PROJECT INCLUDE:
- CONFERENCE ROOMS
- MULTI-USE GATHERING SPACES

304 - BUSINESS GROUP B
- 304.1 - THE USE OF A BUILDING FOR OFFICE, PROFESSIONAL OR SERVICE TYPE TRANSACTIONS INCLUDING STORAGE OF RECORDS AND ACCOUNTS

TABLE 508.2.4 - SEPARATION OF OCCUPANCIES (HOURS)
NO SEPARATION IS REQUIRED BETWEEN ACCESSORY OCCUPANCIES AND THE MAIN OCCUPANCY.

PER TABLE 601 FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (HOURS)

		TYPE IB
STRUCTURAL FRAME		2 HR
BEARING WALLS		
EXTERIOR:	(NOT LESS THAN THE FIRE-RESISTANCE RATING BASED ON FIRE SEPARATION DISTANCE, SEE TABLE 602)	2 HR
INTERIOR:	(STRUCTURAL FRAMES & BEARING WALLS THAT ARE SUPPORING ROOF ONLY)	2 HR
NONBEARING WALLS AND PARTITIONS		0 HR
INTERIOR:	(NOT LESS THAN THE FIRE-RESISTANCE RATING REQUIRED BY OTHER SECTION TO THIS CODE)	
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS		2 HR
ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS		1 HR

PER CHAPTER 10 EXIT ACCESS
TABLE 1014.3 COMMON PATH OF EGRESS TRAVEL SHALL NOT EXCEED:
100' FOR B AND S OCCUPANCIES
75' FOR A OCCUPANCIES

TABLE 1016.2 MAXIMUM TRAVEL DISTANCE
250' FOR A AND S-1 OCCUPANCIES
300' FOR B OCCUPANCY

ARCHITECTURAL PERMIT PACKAGE

THE ARCHITECTURAL DRAWING PAGKAGE ASSOCIATED TO THIS WORK IS UNDER REVIEW WITH THE CITY OF KIRKLAND BUILDING DEPARTMENT. THE PERMIT NUMBER FOR THE ARCHITECTURAL PROJECT IS OUTLINED BELOW:
- BNR24-04595

THIS DRAWING PACKAGE INCLUDES ALL SCOPE FROM THE 'DEFERRED PERMIT LIST' OUTLINED ON THE COVER OF THE ABOVE PERMIT PACKAGE. PLEASE COORDINATE INFORMATION AS NECESSARY BETWEEN THESE PACKAGES.

DEFERRED SUBMITTAL LIST

THE FOLLOWING SCOPE WILL BE ISSUED AS DEFERRED SUBMITTAL IN ACCORDANCE WITH DESIGN INTENT CAPTURED IN THESE CONSTRUCTION DOCUMENTS:.

- FIRE ALARM
- FIRE PROTECTION



SHEET INDEX

GENERAL
G001 COVER SHEET
G101 LEVEL 05 CODE INFORMATION
G102 LEVEL 06 CODE INFORMATION
G200 ACCESSIBILITY

ELECTRICAL
E001 LEGENDS, SCHEDULES AND PANELS
E002 PANEL SCHEDULES
E015 ELECTRICAL DEMOLITION PLANS - FIFTH FLOOR
E016 ELECTRICAL DEMOLITION PLANS - SIXTH FLOOR
E025 LIGHTING DEMOLITION PLANS - FIFTH FLOOR
E026 LIGHTING DEMOLITION PLANS - SIXTH FLOOR
E205 LIGHTING PLANS - FIFTH FLOOR
E206 LIGHTING PLANS - SIXTH FLOOR
E305 POWER PLANS - FIFTH FLOOR
E306 POWER PLANS - SIXTH FLOOR
E501 ELECTRICAL SPECIFICATIONS
E502 ENERGY COMPLIANCE FORMS
E503 ENERGY COMPLIANCE FORMS

TECHNOLOGY
T001 TECHNOLOGY LEGENDS AND DETAILS
T015 SPECIAL SYSTEMS DEMOLITION PLANS - FIFTH FLOOR
T016 SPECIAL SYSTEMS DEMOLITION PLANS - SIXTH FLOOR
T205 TELECOMMUNICATIONS PLANS - FIFTH FLOOR
T206 TELECOMMUNICATIONS PLANS - SIXTH FLOOR
T305 SECURITY PLANS - FIFTH FLOOR
T306 SECURITY PLANS - SIXTH FLOOR

*BLDG. DEPT. CONDITIONS -

SUBJECT TO FIELD INSPECTION – The constructed elements of this project are subject to field inspection and your inspector may not approve of site built details that are different than, or were not on the approved plans. Most changes/revisions cannot be inspected in the field without prior review and you must stay within the original scope. Any changes/revisions are to be submitted to Development Services for review prior to building them.

SCOPE OF WORK - Changes to the scope of work, design, materials or method of construction will require revised plans to be submitted. The plans must be reviewed and approved by City of Kirkland review staff prior to being implemented in the field. Additional review fees will be charges as applicable.

ADDRESS NUMBERS - New and existing buildings shall have approved address numbers placed in a position that is plainly legible and visible from the street or road fronting the property. These numbers shall contrast with their background. Address number shall be Arabic numerals or alphabet letters. Numbers shall be a minimum of 4 inches (4") high with a minimum stroke width of 0.5 inches (1/2"). IFC Sec. 505.

SCOPE OF WORK - Changes to the scope of work, design, materials or method of construction will require revised plans to be submitted. The plans must be reviewed and approved by City of Kirkland review staff prior to being implemented in the field. Additional review fees will be charges as applicable.

GOVERNING CODES
ALL WORK SHALL CONFORM TO THE FOLLOWING CODES
2021 WASHINGTON STATE BUILDING CODE (IBC)
2021 WASHINGTON STATE RESIDENTIAL CODE (IRC)
2021 WASHINGTON STATE EXISTING BUILDING CODE
2021 WASHINGTON STATE ENERGY CODES
2021 WASHINGTON STATE FIRE CODE
2021 WASINGTON STATE ENERGY CODE
2023 NATIONAL ELECTRIC CODE
2023 KIRKLAND ELECTRICAL CODE

REVISED
03/05/2025

City of Kirkland
Reviewed by
L.Farkas
03/05/2025

Cushing Terrell
cushingterrell.com
800.757.9522

GOOGLE
KIRKLAND URBAN LEVEL 5-6

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ISSUE FOR PERMIT

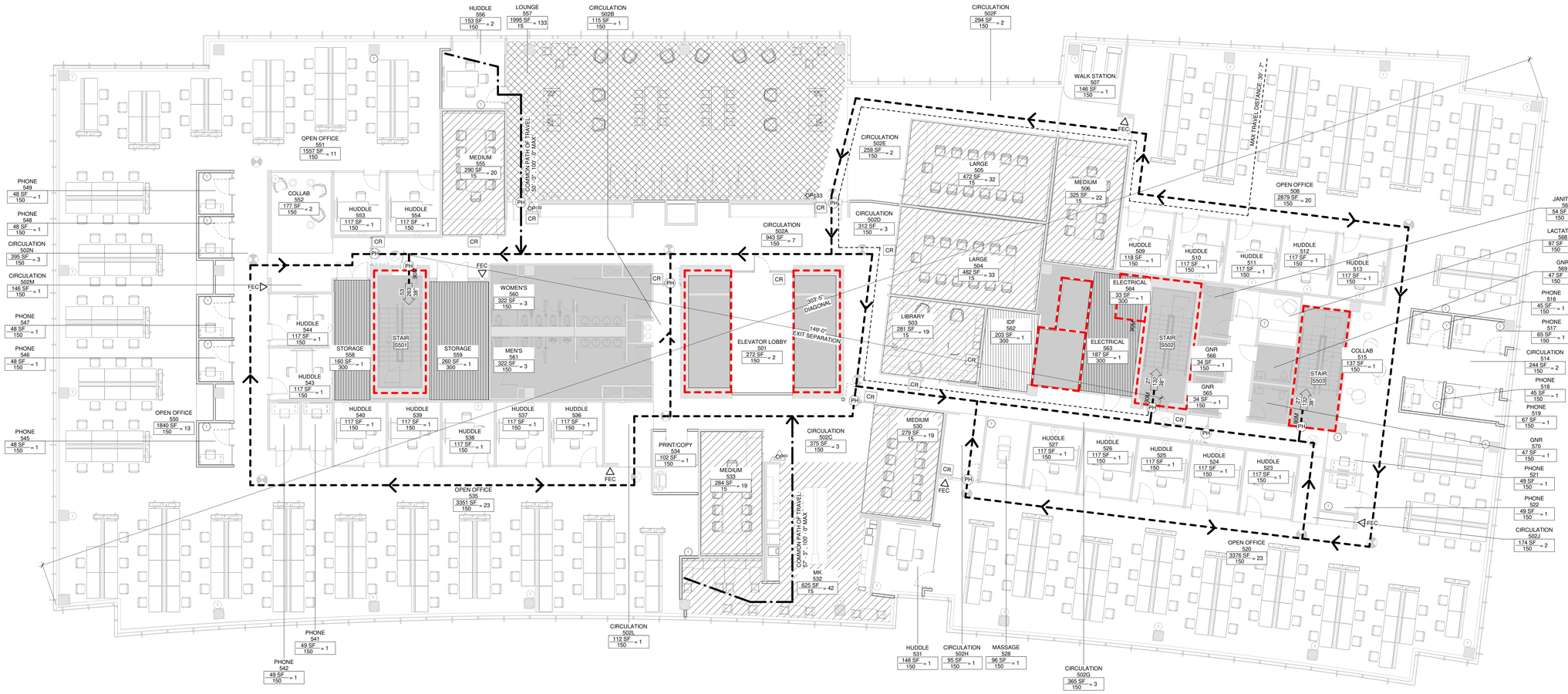
06.20.2024
PROJ# | GOGL_KUN57
DRAWN BY | LS
REVIEWED BY | NB

REVISIONS

COVER SHEET

G001

Cushing Terrell.
cushingterrell.com
800.757.9522



1 G101 LEVEL 05 REMODEL CODE PLAN

1/8" = 1'-0"

NORTH REF

CODE PLAN LEGEND

- OCCUPANCY TAG:
  - ROOM / AREA NAME
  - ROOM / AREA NUMBER
  - SPACE AREA
  - NUMBER OF OCCUPANTS
  - OCCUPANT LOAD FACTOR
- GENERAL PATH OF EGRESS
- COMMON PATH OF TRAVEL
- TRAVEL DISTANCE
- 2 HOUR FIRE BARRIER - SEAL PERMIETER AND PENETRATIONS PER DETAILS ON THIS SHEET
- UL RATED FIRE DOOR AND FRAME WITH RATING AS INDICATED - SEE SHEET A601
- FEC: FIRE EXTINGUISHER CABINET AND EXTINGUISHER - SEE SPECIFICATIONS
- FE: SURFACE MOUNTED FIRE EXTINGUISHER - SEE SPECIFICATIONS
- XX: REQUIRED EGRESS WIDTH
- XX: NUMBER OF OCCUPANTS
- XX: PROVIDED EGRESS WIDTH
- ILLUMINATED EXIT SIGN
- PH: PANIC HARDWARE
- CR: CARDREADER
- MAXIMUM OCCUPANCY / XX: OCCUPANCY SIGNAGE
- *REQUIRED AT ALL ROOMS WITH ASSEMBLY OCCUPANCY AND AN OCCUPANCY LOAD OF 50 OR GREATER
- OPXX

- SHADED AREA INDICATES NOT IN SCOPE
- BUSINESS
- ASSEMBLY: UNCONCENTRATED
- BUSINESS (SMALL ASSEMBLY) (1:15) LESS THAN 750 SF
- ACCESSORY STORAGE (S-2)
- SHAFT

LEVEL 05 ROOM OCCUPANCY SCHEDULE

NO.	ROOM NAME	AREA	CBC OCCUPANCY	CBC OCCUPANT LOAD FACTOR	CALCULATED OCCUPANCY
558	STORAGE	160 SF		300 SF	1.00
559	STORAGE	260 SF		300 SF	1.00
562	IDF	203 SF		300 SF	1.00
563	ELECTRICAL	187 SF		300 SF	1.00
564	ELECTRICAL	33 SF		300 SF	1.00
Accessory Storage (Equipment Rooms)		842 SF			5.00
557	LOUNGE	1995 SF		15 SF	133.00
Assembly tables and chairs		1995 SF			133.00
501	ELEVATOR LOBBY	272 SF		150 SF	2.00
502A	CIRCULATION	943 SF		150 SF	7.00
502B	CIRCULATION	115 SF		150 SF	1.00
502C	CIRCULATION	375 SF		150 SF	3.00
502D	CIRCULATION	312 SF		150 SF	3.00
502E	CIRCULATION	259 SF		150 SF	2.00
502F	CIRCULATION	294 SF		150 SF	2.00
502G	CIRCULATION	365 SF		150 SF	3.00
502H	CIRCULATION	95 SF		150 SF	1.00
502J	CIRCULATION	174 SF		150 SF	2.00
502K	CIRCULATION	97 SF		150 SF	1.00
502L	CIRCULATION	112 SF		150 SF	1.00
502M	CIRCULATION	146 SF		150 SF	1.00
502N	CIRCULATION	395 SF		150 SF	3.00
506	MEDIUM	325 SF		150 SF	3.00
507	WALK STATION	146 SF		150 SF	1.00
508	OPEN OFFICE	2879 SF		150 SF	20.00
509	HUDDLE	118 SF		150 SF	1.00
510	HUDDLE	117 SF		150 SF	1.00
511	HUDDLE	117 SF		150 SF	1.00
512	HUDDLE	117 SF		150 SF	1.00
513	HUDDLE	117 SF		150 SF	1.00
514	CIRCULATION	244 SF		150 SF	2.00
515	COLLAB	137 SF		150 SF	1.00
516	PHONE	45 SF		150 SF	1.00
517	PHONE	65 SF		150 SF	1.00
518	PHONE	45 SF		150 SF	1.00
519	PHONE	67 SF		150 SF	1.00
520	OPEN OFFICE	3376 SF		150 SF	23.00
521	PHONE	49 SF		150 SF	1.00
522	PHONE	49 SF		150 SF	1.00
523	HUDDLE	117 SF		150 SF	1.00
524	HUDDLE	117 SF		150 SF	1.00
525	HUDDLE	117 SF		150 SF	1.00

LEVEL 05 ROOM OCCUPANCY SCHEDULE

NO.	ROOM NAME	AREA	CBC OCCUPANCY	CBC OCCUPANT LOAD FACTOR	CALCULATED OCCUPANCY
526	HUDDLE	117 SF		150 SF	1.00
527	HUDDLE	117 SF		150 SF	1.00
528	MASSAGE	96 SF		150 SF	1.00
531	HUDDLE	148 SF		150 SF	1.00
534	PRINT/COPY	102 SF		150 SF	1.00
535	OPEN OFFICE	3351 SF		150 SF	23.00
536	HUDDLE	117 SF		150 SF	1.00
537	HUDDLE	117 SF		150 SF	1.00
538	HUDDLE	117 SF		150 SF	1.00
539	HUDDLE	117 SF		150 SF	1.00
540	HUDDLE	117 SF		150 SF	1.00
541	PHONE	49 SF		150 SF	1.00
542	PHONE	49 SF		150 SF	1.00
543	HUDDLE	117 SF		150 SF	1.00
544	HUDDLE	117 SF		150 SF	1.00
545	PHONE	48 SF		150 SF	1.00
546	PHONE	48 SF		150 SF	1.00
547	PHONE	48 SF		150 SF	1.00
548	PHONE	48 SF		150 SF	1.00
549	PHONE	48 SF		150 SF	1.00
550	OPEN OFFICE	1840 SF		150 SF	13.00
551	OPEN OFFICE	1557 SF		150 SF	11.00
552	COLLAB	177 SF		150 SF	2.00
553	HUDDLE	117 SF		150 SF	1.00
554	HUDDLE	117 SF		150 SF	1.00
556	HUDDLE	153 SF		150 SF	2.00
560	WOMENS	322 SF		150 SF	3.00
561	MEN'S	322 SF		150 SF	3.00
565	GNR	34 SF		150 SF	1.00
566	GNR	34 SF		150 SF	1.00
567	JANITORS	54 SF		150 SF	1.00
568	LACTATION	97 SF		150 SF	1.00
569	GNR	47 SF		150 SF	1.00
570	GNR	47 SF		150 SF	1.00
Business		22328 SF			180.00
503	LIBRARY	281 SF		15 SF	19.00
504	LARGE	482 SF		15 SF	33.00
505	LARGE	472 SF		15 SF	32.00
530	MEDIUM	279 SF		15 SF	19.00
532	MK	625 SF		15 SF	42.00
533	MEDIUM	284 SF		15 SF	19.00
555	MEDIUM	290 SF		15 SF	20.00
Business (Small Assembly)		2712 SF			184.00

LEVEL 5 CODE REVIEW INFORMATION

TOTAL OCCUPANTS PER TABLE 1004.5

AREA TYPE	SQ. FT.	LOAD FACTOR	OCCUPANT
ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	842 SF	300	5
ASSEMBLY - UNCONCENTRATED	1,995 SF	15	133
BUSINESS AREAS	25,041 SF	15, 150	364
TOTAL OCCUPANCY			502
TOTAL OCCUPANCY (MINUS ACCESSORY OCCUPANCY)			497

TABLE 1004.5 - MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT
- BUSINESS: 150 GROSS, 15 NET
- ASSEMBLY UN-CONCENTRATED (TABLES AND CHAIRS): 15 NET
- STORAGE: 300 GROSS

1005 - MINIMUM REQUIRED EGRESS WIDTH

FLOOR DESIGN OCCUPANT LOAD = 510

DOORS
502 X 0.15 = 75.3" CAPACITY REQUIRED : 108" PROVIDED

STAIRS
502 X 0.2 = 100.4" CAPACITY REQUIRED : 144" PROVIDED

1006 - MINIMUM NUMBER OF EXITS FOR OCCUPANT LOAD
3 EXITS REQUIRED (FLOOR OCCUPANCY >500) : 3 PROVIDED ON FLOOR

ALL TRAVEL DISTANCE REQUIREMENTS (EXIT ACCESS & COMMON PATH OF EGRESS) : MET

TABLE 1006.2.1 COMMON PATH OF EGRESS TRAVEL
IN GROUP B OCCUPANCY, WITH AUTOMATIC SPRINKLER SYSTEM = 100 FEET MAXIMUM
IN GROUP A OCCUPANCY, WITH AUTOMATIC SPRINKLER SYSTEM = 75 FEET MAXIMUM

TABLE 1006.2.1 - SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY
FOR OCCUPANCY B, MAXIMUM OCCUPANCY LOAD = 49
FOR OCCUPANCY A, MAXIMUM OCCUPANCY LOAD = 49

1016.2 EGRESS THROUGH INTERVENING SPACES
EGRESS FROM A ROOM OR SPACE SHALL NOT PASS THROUGH ADJOINING OR INTERVENING ROOMS OR AREAS, EXCEPT WHERE SUCH ADJOINING ROOMS OR AREAS AND THE AREAS SERVED ARE ACCESSORY TO ONE OR THE OTHER, ARE NOT A GROUP H OCCUPANCY AND PROVIDE A DESCERNIBLE PATH OF EGRESS TRAVEL TO AN EXIT.

TABLE 1017.2 EXIT ACCESS TRAVEL DISTANCE
OCCUPANCY B WITH SPRINKLER SYSTEM: 300 FT.
OCCUPANCY A WITH SPRINKLER SYSTEM: 250 FT.

TABLE 1020.1 - CORRIDOR FIRE-RESISTANCE RATING
GROUP B OCCUPANCY, GREATER THAN 30 OCCUPANTS SERVED BY CORRIDOR, WITH SPRINKLER SYSTEM = 0 HOURS

MINIMUM PLUMBING FACILITIES PER TABLE 2902.1

WATER CLOSETS:
B OCCUPANCIES
TOTAL GROUP 'B' OCCUPANT LOAD = 364 / 2 = 182 MALE, 182 FEMALE
TOTAL REQ'D: 5 MALES, 5 FEMALES
A-3 OCCUPANCIES
TOTAL GROUP 'A-3' OCCUPANT LOAD = 133 / 2 = 67 MALE, 67 FEMALE
TOTAL REQ'D: 1 MALES, 2 FEMALES
TOTAL REQ'D: 6 MALES, 7 FEMALES
TOTAL PROVIDED: 5 MALES (INCLUDING 2 URINALS*), 5 FEMALES, 4 GENDER NEUTRAL **(7 MALES/ 7 FEMALES)**

*NOTE: PER IPC 424.2 SUBSTITUTION FOR WATER CLOSETS:
URINALS SHALL NOT BE SUBSTITUTED FOR MORE THAN 50 PERCENT OF THE REQUIRED WATER CLOSETS.

LAVATORIES:
B OCCUPANCIES
TOTAL GROUP 'B' OCCUPANT LOAD = 364 / 2 = 182 MALE, 182 FEMALE
TOTAL REQ'D: 4 MALES, 4 FEMALES
A-3 OCCUPANCIES
TOTAL GROUP 'A-3' OCCUPANT LOAD = 133 / 2 = 67 MALE, 67 FEMALE
TOTAL REQ'D: 1 MALES, 1 FEMALES
TOTAL REQ'D: 5 MALES, 5 FEMALES
TOTAL PROVIDED: 4 MALES, 4 FEMALES, 4 GENDER NEUTRAL **(6 MALES/6 FEMALES)**

DRINKING FOUNTAINS:
B OCCUPANCY 1 PER 300 = 2
A OCCUPANCY 1 PER 200 = 2
TOTAL REQ'D: 4 **TOTAL PROVIDED:** 2
*NOTE: 410.4 SUBSTITUTION
EMPLOYER PROVIDES DRINKING WATER IN A CONTAINER FREE OF CHARGE

GOOGLE
KIRKLAND URBAN LEVEL 5-6

REGISTERED KEVIN ELDREDGE STATE OF WASHINGTON

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ISSUE FOR PERMIT

06.20.2024
PROJ# | GOGL_KUN57
DESIGNED BY | SUMMERS
DRAWN BY | SUMMERS
REVIEWED BY | BOWERS
REVISIONS

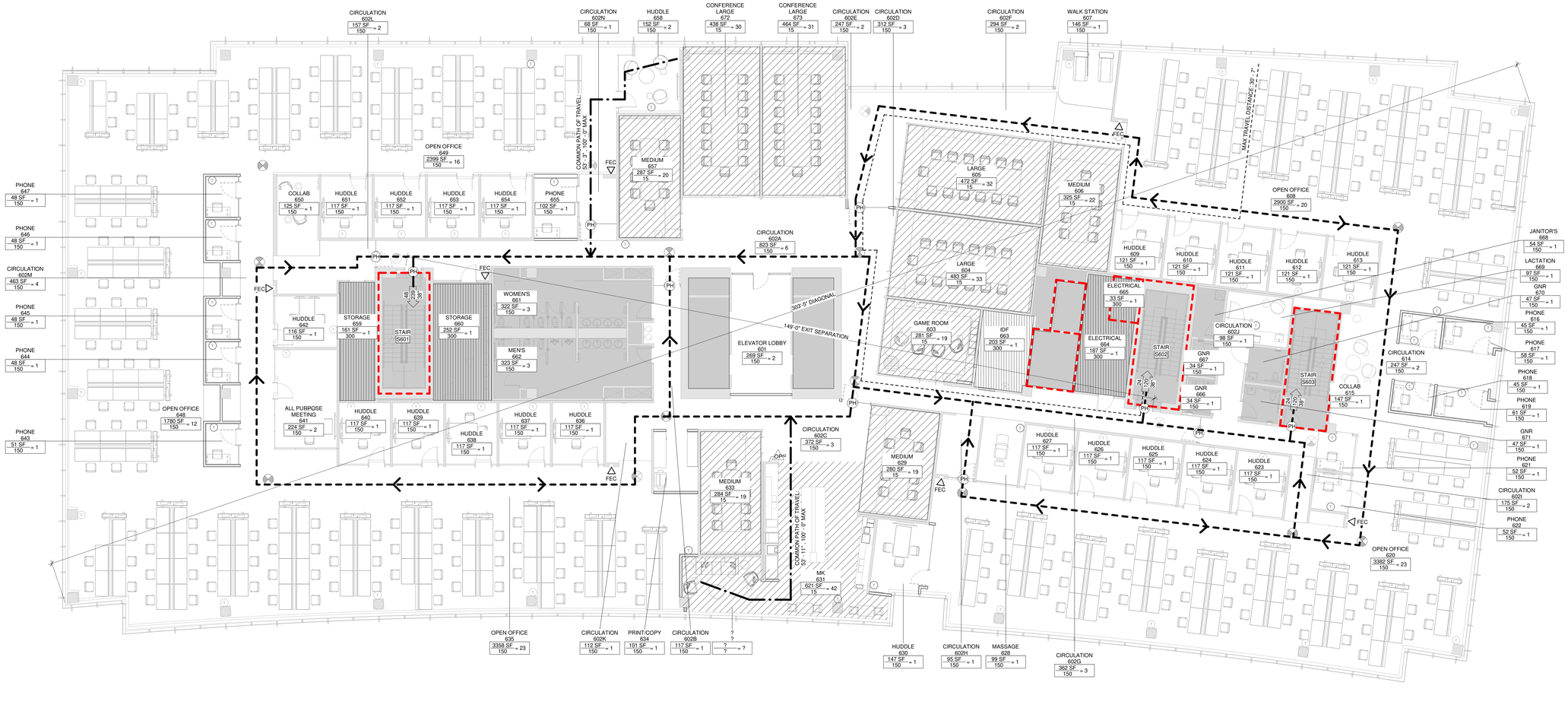
LEVEL 05 CODE INFORMATION

G101

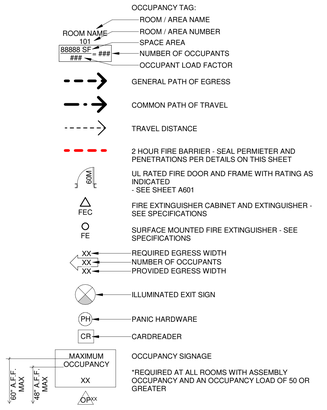
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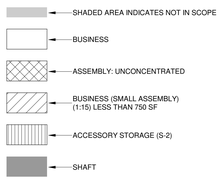
LEVEL 06 REMODEL CODE PLAN

1 / G102 — 1/8" = 1'-0"



CODE PLAN LEGEND





LEVEL 06 ROOM OCCUPANCY SCHEDULE

NO.	ROOM NAME	AREA	CBC OCCUPANCY	CBC OCCUPANT LOAD FACTOR	CALCULATED OCCUPANCY
659	STORAGE	161 SF		300 SF	1.00
660	STORAGE	252 SF		300 SF	1.00
663	IDF	203 SF		300 SF	1.00
664	ELECTRICAL	187 SF		300 SF	1.00
665	ELECTRICAL	33 SF		300 SF	1.00
Accessory Storage (Equipment Rooms)		837 SF			5.00
601	ELEVATOR LOBBY	269 SF		150 SF	2.00
602A	CIRCULATION	823 SF		150 SF	6.00
602B	CIRCULATION	117 SF		150 SF	1.00
602C	CIRCULATION	372 SF		150 SF	3.00
602D	CIRCULATION	312 SF		150 SF	3.00
602E	CIRCULATION	247 SF		150 SF	2.00
602F	CIRCULATION	294 SF		150 SF	2.00
602G	CIRCULATION	362 SF		150 SF	3.00
602H	CIRCULATION	95 SF		150 SF	1.00
602I	CIRCULATION	175 SF		150 SF	2.00
602J	CIRCULATION	98 SF		150 SF	1.00
602K	CIRCULATION	112 SF		150 SF	1.00
602L	CIRCULATION	157 SF		150 SF	2.00
602M	CIRCULATION	463 SF		150 SF	4.00
602N	CIRCULATION	68 SF		150 SF	1.00
607	WALK STATION	146 SF		150 SF	1.00
608	OPEN OFFICE	2900 SF		150 SF	20.00
609	HUDDLE	121 SF		150 SF	1.00
610	HUDDLE	121 SF		150 SF	1.00
611	HUDDLE	121 SF		150 SF	1.00
612	HUDDLE	121 SF		150 SF	1.00
613	HUDDLE	121 SF		150 SF	1.00
614	CIRCULATION	247 SF		150 SF	2.00
615	COLLAB	147 SF		150 SF	1.00
616	PHONE	45 SF		150 SF	1.00
617	PHONE	58 SF		150 SF	1.00
618	PHONE	45 SF		150 SF	1.00
619	PHONE	61 SF		150 SF	1.00
620	OPEN OFFICE	3382 SF		150 SF	23.00
621	PHONE	52 SF		150 SF	1.00
622	PHONE	52 SF		150 SF	1.00
623	HUDDLE	117 SF		150 SF	1.00
624	HUDDLE	117 SF		150 SF	1.00
625	HUDDLE	117 SF		150 SF	1.00
626	HUDDLE	117 SF		150 SF	1.00
627	HUDDLE	117 SF		150 SF	1.00
628	MASSAGE	99 SF		150 SF	1.00
630	HUDDLE	147 SF		150 SF	1.00
634	PRINT/COPY	101 SF		150 SF	1.00
635	OPEN OFFICE	3358 SF		150 SF	23.00

LEVEL 06 ROOM OCCUPANCY SCHEDULE

NO.	ROOM NAME	AREA	CBC OCCUPANCY	CBC OCCUPANT LOAD FACTOR	CALCULATED OCCUPANCY
636	HUDDLE	117 SF		150 SF	1.00
637	HUDDLE	117 SF		150 SF	1.00
638	HUDDLE	117 SF		150 SF	1.00
639	HUDDLE	117 SF		150 SF	1.00
640	HUDDLE	117 SF		150 SF	1.00
642	HUDDLE	116 SF		150 SF	1.00
643	PHONE	51 SF		150 SF	1.00
644	PHONE	48 SF		150 SF	1.00
645	PHONE	48 SF		150 SF	1.00
646	PHONE	48 SF		150 SF	1.00
647	PHONE	48 SF		150 SF	1.00
648	OPEN OFFICE	1780 SF		150 SF	12.00
649	OPEN OFFICE	2399 SF		150 SF	16.00
650	COLLAB	125 SF		150 SF	1.00
651	HUDDLE	117 SF		150 SF	1.00
652	HUDDLE	117 SF		150 SF	1.00
653	HUDDLE	117 SF		150 SF	1.00
654	HUDDLE	117 SF		150 SF	1.00
655	PHONE	102 SF		150 SF	1.00
658	HUDDLE	152 SF		150 SF	2.00
661	WOMEN'S	322 SF		150 SF	3.00
662	MEN'S	323 SF		150 SF	3.00
666	GNR	34 SF		150 SF	1.00
667	GNR	34 SF		150 SF	1.00
668	JANITOR'S	54 SF		150 SF	1.00
669	LACTATION	97 SF		150 SF	1.00
670	GNR	47 SF		150 SF	1.00
671	GNR	47 SF		150 SF	1.00
Business		22921 SF			182.00
603	GAME ROOM	281 SF		15 SF	19.00
604	LARGE	483 SF		15 SF	33.00
605	LARGE	472 SF		15 SF	32.00
606	MEDIUM	325 SF		15 SF	22.00
629	MEDIUM	280 SF		15 SF	19.00
631	MK	621 SF		15 SF	42.00
633	MEDIUM	284 SF		15 SF	19.00
641	ALL PURPOSE MEETING	224 SF		15 SF	15.00
657	MEDIUM	287 SF		15 SF	20.00
672	CONFERENCE LARGE	438 SF		15 SF	30.00
673	CONFERENCE LARGE	464 SF		15 SF	31.00
Business (Small Assembly)		4159 SF			282.00

LEVEL 6 CODE REVIEW INFORMATION

TOTAL OCCUPANTS PER TABLE 1004.5

AREA TYPE	SQ. FT.	LOAD FACTOR	OCCUPANT
ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	837 SF	300	5
ASSEMBLY - UNCONCENTRATED	0 SF	15	0
BUSINESS AREAS	27,078 SF	15, 150	403
TOTAL OCCUPANCY			408
TOTAL OCCUPANCY (MINUS ACCESSORY OCCUPANCY)			403

TABLE 1004.5 - MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT
- BUSINESS: 150 GROSS, 15 NET
- ASSEMBLY UN-CONCENTRATED (TABLES AND CHAIRS): 15 NET
- STORAGE: 300 GROSS

1005 - MINIMUM REQUIRED EGRESS WIDTH

FLOOR DESIGN OCCUPANT LOAD = 469

DOORS
408 X 0.15 = 70.4" CAPACITY REQUIRED : 61.2" PROVIDED

STAIRS
408 X 0.2 = 81.6" CAPACITY REQUIRED : 144" PROVIDED

1006 - MINIMUM NUMBER OF EXITS FOR OCCUPANT LOAD
2 EXITS REQUIRED (FLOOR OCCUPANCY <500) : 3 PROVIDED ON FLOOR

ALL TRAVEL DISTANCE REQUIREMENTS (EXIT ACCESS & COMMON PATH OF EGRESS) : MET

TABLE 1006.2.1 COMMON PATH OF EGRESS TRAVEL
IN GROUP B OCCUPANCY, WITH AUTOMATIC SPRINKLER SYSTEM = 100 FEET MAXIMUM
IN GROUP A OCCUPANCY, WITH AUTOMATIC SPRINKLER SYSTEM = 75 FEET MAXIMUM

TABLE 1006.2.1 - SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY
FOR OCCUPANCY B, MAXIMUM OCCUPANCY LOAD = 49
FOR OCCUPANCY A, MAXIMUM OCCUPANCY LOAD = 49

1016.2 EGRESS THROUGH INTERVENING SPACES
EGRESS FROM A ROOM OR SPACE SHALL NOT PASS THROUGH ADJOINING OR INTERVENING ROOMS OR AREAS EXEPT WHERE SUCH ADJOINING ROOMS OR AREAS AND THE AREA SERVED ARE ACCESSORY TO ONE OR THE OTHER, ARE NOT A GROUP H OCCUPANCY AND PROVIDE A DISCERNIBLE PATH OF EGRESS TRAVEL TO AN EXIT.

TABLE 1017.2 EXIT ACCESS TRAVEL DISTANCE
OCCUPANCY B WITH SPRINKLER SYSTEM: 300 FT.
OCCUPANCY A WITH SPRINKLER SYSTEM: 250 FT.

TABLE 1020.1 - CORRIDOR FIRE-RESISTANCE RATING
GROUP B OCCUPANCY, GREATER THAN 30 OCCUPANTS SERVED BY CORRIDOR, WITH SPRINKLER SYSTEM = 0 HOURS

MINIMUM PLUMBING FACILITIES PER TABLE 2902.1

WATER CLOSETS:
B OCCUPANCIES
TOTAL GROUP 'B' OCCUPANT LOAD = 403 / 2 = 202 MALE, 202 FEMALE
TOTAL REQ'D: 6 MALES, 6 FEMALES **TOTAL PROVIDED:** 6 MALES (INCLUDING 2 URINALS*), 5 FEMALES, 4 GENDER NEUTRAL **(7 MALES/ 7 FEMALES)**
*NOTE: PER IPC 424.2 SUBSTITUTION FOR WATER CLOSETS
URINALS SHALL NOT BE SUBSTITUTED FOR MORE THAN 50 PERCENT OF THE REQUIRED WATER CLOSETS.

LAVATORIES:
B OCCUPANCIES
TOTAL GROUP 'B' OCCUPANT LOAD = 403 / 2 = 202 MALE, 202 FEMALE
TOTAL REQ'D: 4 MALES, 4 FEMALES **TOTAL PROVIDED:** 4 MALES, 4 FEMALES, 4 GENDER NEUTRAL **(6 MALES/6 FEMALES)**

DRINKING FOUNTAINS:
B OCCUPANCY 1 PER 300 = 2
TOTAL REQ'D: 2 TOTAL PROVIDED: 2
*NOTE: 410.4 SUBSTITUTION
EMPLOYER PROVIDES DRINKING WATER IN A CONTAINER FREE OF CHARGE

NORTH REF

GOOGLE
KIRKLAND URBAN LEVEL 5-6



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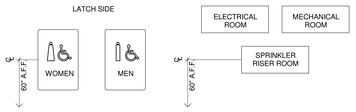
ISSUE FOR PERMIT

06.20.2024
PROJ# | GOGL_KUN57
DESIGNED BY | SUMMERS
DRAWN BY | SUMMERS
REVIEWED BY | BOWERS
REVISIONS

LEVEL 06 CODE INFORMATION

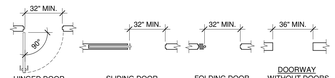
G102

ADA SIGNAGE



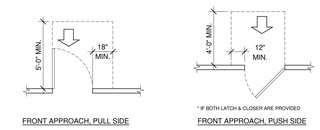
1 G200 ADA SIGNAGE
1 1/2" = 1'-0"

CLEAR WIDTH OF DOORS



HINGED DOOR | SLIDING DOOR | FOLDING DOOR | DOORWAY WITHOUT DOORS

MANEUVERING CLEARANCE AT MANUAL SWINGING DOORS



FRONT APPROACH, PULL SIDE | FRONT APPROACH, PUSH SIDE

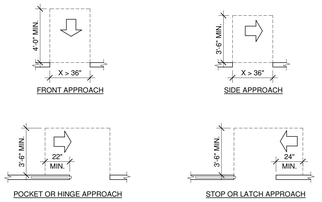
* IF BOTH LATCH & CLOSER ARE PROVIDED

HINGE APPROACH, PULL SIDE | HINGE APPROACH, PUSH SIDE

* IF BOTH LATCH & CLOSER ARE PROVIDED

LATCH APPROACH, PULL SIDE | LATCH APPROACH, PUSH SIDE

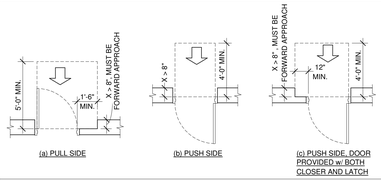
MANEUVERING CLEARANCE AT DOORWAYS WITHOUT DOORS & MANUAL SLIDING / FOLDING DOORS



FRONT APPROACH | SIDE APPROACH

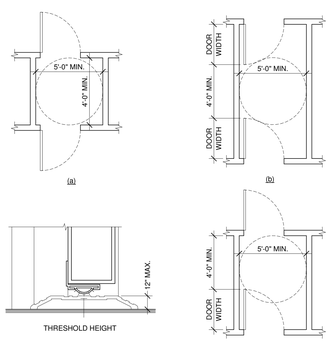
POCKET OR HINGE APPROACH | STOP OR LATCH APPROACH

MANEUVERING CLEARANCE AT RECESSED DOORS



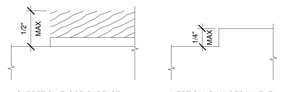
(a) PULL SIDE | (b) PUSH SIDE | (c) PUSH SIDE, DOOR PROVIDED w/ BOTH CLOSER AND LATCH

TWO DOORS IN A SERIES

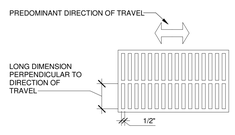


2 G200 DOORS
1/4" = 1'-0"

303 CHANGES IN LEVELS



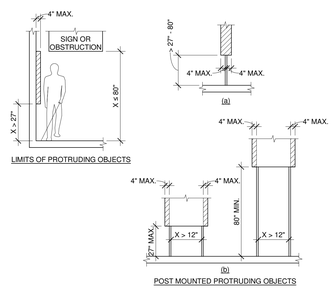
CARPET ON FLOOR SURFACE | VERTICAL CHANGES IN LEVEL



OPENINGS IN FLOOR SURFACE

3 G200 CHANGES IN LEVEL
1/4" = 1'-0"

307 PROTRUDING OBJECTS



LIMITS OF PROTRUDING OBJECTS

POST MOUNTED PROTRUDING OBJECTS

4 G200 PROTRUDING OBJECTS
1/4" = 1'-0"

703 TACTILE & VISUAL

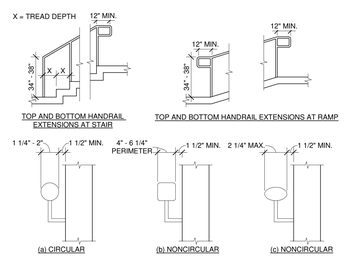


INTERNATIONAL SYMBOL OF ACCESSIBILITY | INTERNATIONAL TTY SYMBOL

INTERNATIONAL SYMBOL OF ACCESS FOR HEARING LOSS | VOLUME CONTROLLED TELEPHONE

5 G200 TACTILE AND VISUAL
1/4" = 1'-0"

602 DRINKING FOUNTAIN



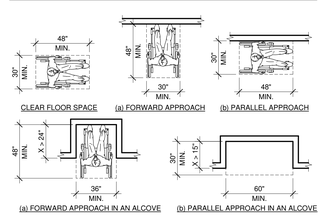
TOP AND BOTTOM HANDRAIL EXTENSIONS AT STAIR | TOP AND BOTTOM HANDRAIL EXTENSIONS AT RAMP

(a) CIRCULAR | (b) NONCIRCULAR | (c) NONCIRCULAR

HANDRAIL CLEARANCE & CROSS SECTION

6 G200 HANDRAILS
1/4" = 1'-0"

305 CLEAR FLOOR SPACE

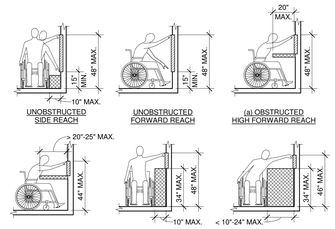


CLEAR FLOOR SPACE | (a) FORWARD APPROACH | (b) PARALLEL APPROACH

(a) FORWARD APPROACH IN AN ALCOVE | (b) PARALLEL APPROACH IN AN ALCOVE

7 G200 CLEAR FLOOR SPACE
1/4" = 1'-0"

308 REACH RANGES

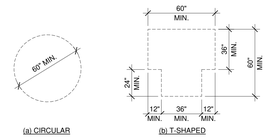


UNOBSTRUCTED SIDE REACH | UNOBSTRUCTED FORWARD REACH | (a) OBSTRUCTED HIGH FORWARD REACH

(b) OBSTRUCTED HIGH FORWARD REACH | (a) OBSTRUCTED HIGH SIDE REACH | (b) OBSTRUCTED HIGH SIDE REACH

8 G200 REACH RANGES
1/4" = 1'-0"

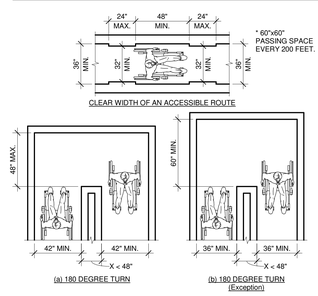
304 WHEEL CHAIR TURNING SPACE



(a) CIRCULAR | (b) T-SHAPED

9 G200 WHEELCHAIR TURNING SPACE
1/4" = 1'-0"

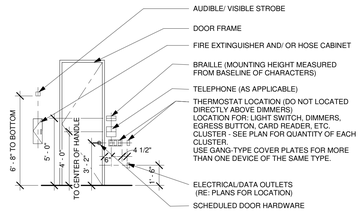
403 WALKING SURFACES



CLEAR WIDTH OF AN ACCESSIBLE ROUTE

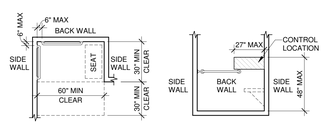
(a) 180 DEGREE TURN | (b) 180 DEGREE TURN (Exception)

10 G200 WALKING SURFACES
1/4" = 1'-0"



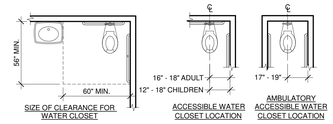
NOTE: ALL DIMENSIONS TO CENTER LINE OF DEVICES. SEE PLANS FOR SPECIFIC LOCATIONS.

11 G200 TYPICAL MOUNTING HEIGHTS
1/4" = 1'-0"

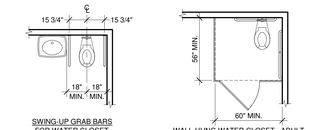


12 G200 STANDARD ROLL-IN TYPE SHOWER COMPARTMENT
1/4" = 1'-0"

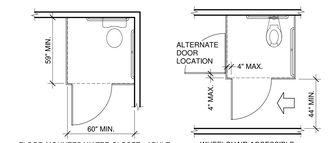
604 WATER CLOSETS AND TOILET COMPARTMENTS



SIZE OF CLEARANCE FOR WATER CLOSET | ACCESSIBLE WATER CLOSET LOCATION | AMBULATORY ACCESSIBLE WATER CLOSET LOCATION



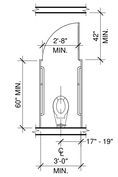
SWING-UP GRAB BARS FOR WATER CLOSET | WALL-HUNG WATER CLOSET - ADULT



FLOOR-MOUNTED WATER CLOSET - ADULT WALL HUNG AND | WHEELCHAIR ACCESSIBLE COMPARTMENT DOORS

(a) ELEVATION ADULT | (b) ELEVATION CHILDREN | (c)

WHEELCHAIR ACCESSIBLE COMPARTMENT TOE CLEARANCE



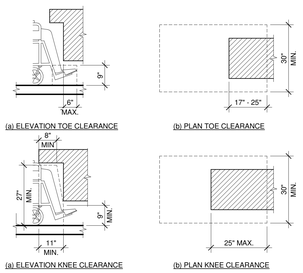
AMBULATORY ACCESSIBLE COMPARTMENT

NOTE:

WHERE THE COMBINED TOTAL WATER CLOSET COMPARTMENTS AND URINALS PROVIDED IN A TOILET ROOM OR BATHING FACILITY IS SIX OR MORE, AT LEAST ON AMBULATORY-ACCESSIBLE WATER CLOSET COMPARTMENT SHALL BE PROVIDED IN ADDITION TO THE WHEELCHAIR-ACCESSIBLE COMPARTMENT.

13 G200 WATER CLOSETS
1/4" = 1'-0"

306 KNEE & TOE CLEARANCE

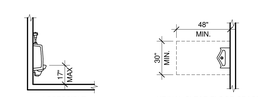


(a) ELEVATION TOE CLEARANCE | (b) PLAN TOE CLEARANCE

(a) ELEVATION KNEE CLEARANCE | (b) PLAN KNEE CLEARANCE

14 G200 KNEE AND TOE CLEARANCE
1/2" = 1'-0"

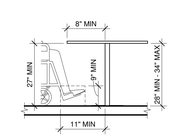
605 URINALS



ACCESSIBLE WALL HUNG URINAL HEIGHT | URINAL CLEAR FLOOR SPACE

15 G200 URINALS
1/4" = 1'-0"

902 ACCESSIBLE DINING HEIGHTS



16 G200 ACCESSIBILE DINING HEIGHTS
1/2" = 1'-0"

Cushing Terrell.

cushingterrell.com
800.757.9522

GOOGLE
KIRKLAND URBAN LEVEL 5-6

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ISSUE FOR PERMIT

06.20.2024
PROJ# | GOGL_KUN57
DESIGNED BY | LAST NAME
DRAWN BY | LAST NAME
REVIEWED BY | LAST NAME
REVISIONS

ACCESSIBILITY

G200

LIGHTING FIXTURE SCHEDULE

NOTES:
1) MATCH FIXTURE HEIGHT OF EXISTING FIXTURES.
2) INSTALL FIXTURE HORIZONTAL.
3)

TYPE	FIXTURE							LIGHT SOURCE			NOTES
	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	MOUNTING LOCATION	MOUNTING TYPE	MOUNTING HEIGHT	VOLTAGE	VA	CRI	KELVIN	LUMENS	
A1	2x2 RECESSED TROFFER	LITHONIA	2BLT2 33L ADSM EX1 LP835	CEILING	RECESSED	-	277 V	26.50	80	3500	3300 lm	
L06-12	12' DIRECT/INDIRECT PENDANT	LUMATO	SQ2-ID 12 MU LD 35 UNV T9 WH	CEILING	PENDANT	7' 0"	277 V	113.00	80	3500	4320 lm	
L08	3' CYLINDER DOWNLIGHT - HIGH OUTPUT	EUREKA	POINT 4044 LED.18 30 40 277 DV AC 60 RC CHR SA BLKA 3983	CEILING	PENDANT	-	277 V	26.00	80	3000	1600 lm	1
L08A	3" CYLINDER DOWNLIGHT - MEDIUM OUTPUT	EUREKA	POINT 4044 LED.11 30 40 277 DV AC 60 RC CHR SA BLKA 3983	CEILING	PENDANT	-	277 V	22.00	80	3000	1250 lm	
P1	3' HUDDLE ROOM PENDANT	OCL	LO2 P1EC 36 MW MWP LED1 935 UNV 48 DM1	CEILING	PENDANT	6' 10"	277 V	65.00	90	3500	7600 lm	
R1	4' PHONE ROOM RECESSED LINEAR	NULITE	RG1 D FF 05 H 35 UNV D 1 1 WH 4	CEILING	RECESSED	-	277 V	14.80	90	3500	2000 lm	
R2	6' PHONE ROOM RECESSED LINEAR	NULITE	RG1 D FF 05 H 35 UNV D 1 1 WH 6	CEILING	RECESSED	-	277 V	22.20	90	3500	3000 lm	
R3	6' GENERAL RECESSED LINEAR	MARK	SL2L LOP 6FT FLP GB 80CRI 30K 600LMF MIN1 277 ZT	CEILING	RECESSED	-	277 V	36.00	80	3000	3600 lm	
W1	PHONE ROOM SCONCE	EUREKA	3545-24 LED 35 90 277V DV SL WHE WH 3980B	WALL	SURFACE	4' 8" BOF	277 V	9.10	90	3500	1200 lm	
WW1	MEETING ROOM LINEAR WALL WASH	FINELITE	HP2 R WW-D 8' B 935 K SW 277 SC FC-1% C2 FE SW	CEILING	RECESSED	-	277 V	35.20	90	3500	3360 lm	
X1	SINGLE FACE EXIT SIGN	LITHONIA	EDG 1 G EL SD	WALL	SURFACE	-	277 V	2.50	0	GREEN	0 lm	

LIGHTING CONTROL EQUIPMENT SCHEDULE

GENERAL NOTES:
A. LOW VOLTAGE WIRING NOT DEPICTED ON PLAN DIAGRAMS. REFER TO MANUFACTURERS CONNECTION DIAGRAMS FOR LOW VOLTAGE REQUIREMENTS.
B. ALL LOW-VOLTAGE CABLING AND CONTROLLERS SHALL BE PLENUM RATED.
C. CONTRACTORS WORK TO INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
D. FIELD VERIFY EXACT LOCATION OF EACH SENSOR. LOCATE PER MANUFACTURER'S RECOMMENDATIONS. ULTRASONIC SENSORS SHALL BE INSTALLED A MINIMUM OF 5FT FROM ANY HVAC SUPPLY OR RETURN AIR DIFFUSER.
E. ALL CONTROLS SHALL BE FULLY ADJUSTED. ELECTRICAL CONTRACTOR TO PROVIDE TRAINING TO OWNER/MAINTENANCE STAFF FOR PROGRAMMING OF ALL LIGHTING CONTROLS IN PROJECT.
F. ELECTRICAL CONTRACTOR TO PROVIDE FOLLOW UP AT 6 MONTHS AND 1 YEAR TO ADJUST LIGHTING AND LIGHTING CONTROLS AND PROVIDE ADDITIONAL TRAINING TO OWNER/MAINTENANCE STAFF IF REQUESTED.
G. LIGHTING CONTROLS MANUFACTURER SHALL PROVIDE SHOP DRAWINGS INDICATING ALL REQUIRED CONNECTIONS FOR RESPECTIVE MANUFACTURER'S SYSTEM. SHOP DRAWINGS TO INCLUDE DETAILS AND REQUIRED COMPONENTS FOR AUTOMATIC RECEPTACLE CONTROL AS REQUIRED BY WASHINGTON STATE ENERGY CODE. PROVIDE ALL CONNECTIONS IN ACCORDANCE WITH MANUFACTURER'S SHOP DRAWINGS.
H. LIGHT FIXTURE OUTPUT SHALL BE DETERMINED BY THE LOWEST OUTPUT SIGNAL FROM THE MANUAL DIMMER, DAYLIGHT SENSOR (WHERE APPLICABLE), AND OCCUPANCY SENSOR.

SYMBOL	SUBSCRIPT	MANUFACTURER	CATALOG NUMBER	MOUNTING LOCATION	VOLTAGE	NOTES
TC						
OS	1	LUTRON	LRF2 VCR2B P WH	CEILING	WIRELESS	
$	D	LUTRON	PJ2 4B GWH L01	WALL	WIRELESS	

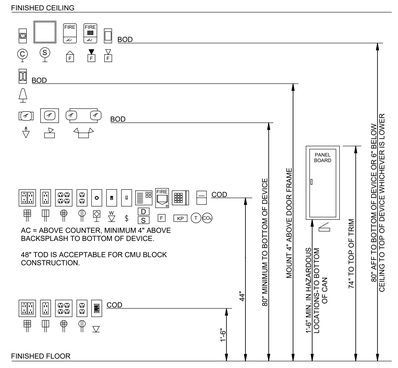
VOLTAGE DROP MATRIX

CIRCUIT	VOLTAGE	LOAD	LENGTH	VOLTAGE DROP
2E5NA1-33	120V	540 VA	112 FT	1.52%
2E5NA1-35	120V	720 VA	112 FT	2.03%
2E5NA1-37	120V	1000 VA	118 FT	2.97%
2E5NA1-39	120V	720 VA	92 FT	1.67%
2E5NA1-41	120V	720 VA	91 FT	1.65%
2E5NA2-23	120V	1080 VA	95 FT	2.58%
2E5NA2-25	120V	1080 VA	94 FT	2.54%
2E5NA2-27	120V	1080 VA	96 FT	2.61%
2E5NA2-31	120V	1080 VA	96 FT	2.61%
2E5NA3-25	120V	720 VA	80 FT	1.45%
2E5NA3-27	120V	720 VA	75 FT	1.36%
2E5NA3-29	120V	540 VA	133 FT	1.81%
2E5NA3-31	120V	540 VA	117 FT	1.59%
2E5NA6-35	120V	720 VA	83 FT	1.50%
2E5NA6-37	120V	720 VA	82 FT	1.49%
2ESNA6-8	120V	1080 VA	35 FT	0.95%
2E5NA6-10	120V	1080 VA	33 FT	0.90%
2E5NA6-18	120V	540 VA	75 FT	1.02%
2E5NA6-20	120V	1080 VA	58 FT	1.58%
2E5NA6-22	120V	1620 VA	73 FT	2.98%
2E6NA1-31	120V	540 VA	113 FT	1.54%
2E6NA1-33	120V	720 VA	118 FT	2.14%
2E6NA1-35	120V	1000 VA	119 FT	2.99%
2E6NA2-21	120V	720 VA	89 FT	1.61%
2E6NA2-23	120V	1080 VA	94 FT	2.55%
2E6NA2-25	120V	1080 VA	95 FT	2.58%
2E6NA2-27	120V	720 VA	88 FT	1.59%
2E6NA2-29	120V	1080 VA	95 FT	2.58%
2E6NA2-31	120V	1080 VA	96 FT	2.61%
2E6NA3-23	120V	720 VA	74 FT	1.34%
2E6NA3-25	120V	720 VA	79 FT	1.43%
2E6NA6-35	120V	720 VA	116 FT	2.10%
2E6NA6-37	120V	720 VA	115 FT	2.08%
2E6NA6-8	120V	1080 VA	34 FT	0.92%
2E6NA6-10	120V	1080 VA	33 FT	0.90%
2E6NA6-12	120V	540 VA	72 FT	0.98%
2E6NA6-14	120V	540 VA	71 FT	0.96%
2E6NA6-18	120V	540 VA	74 FT	1.01%
2E6NA6-20	120V	1080 VA	58 FT	1.58%
2E6NA6-22	120V	1620 VA	73 FT	2.98%

CONTROLLED RECEPTACLE SCHEDULE

ROOM NAME	ROOM NUMBER	STANDARD RECEPTACLE QUANTITY	CONTROLLED RECEPTACLE QUANTITY
PHONE	516	3	3
PHONE	517	3	3
PHONE	518	3	3
PHONE	519	3	3
HUDDLE	531	4	4
PRINT/COPY	534	4	4
PHONE	545	3	3
PHONE	546	3	3
PHONE	547	3	3
PHONE	548	3	3
PHONE	549	3	3
HUDDLE	556	4	4
PHONE	616	3	3
PHONE	617	3	3
PHONE	618	3	3
PHONE	619	3	3
HUDDLE	630	4	4
PRINT/COPY	634	4	4
PHONE	643	3	3
PHONE	644	3	3
PHONE	645	3	3
PHONE	646	3	3
PHONE	647	3	3
PHONE	655	3	3
HUDDLE	658	4	4

INTERIOR BOX MOUNTING HEIGHTS



ELECTRICAL LEGEND

SYMBOLS APPLY ONLY WHEN USED ON DRAWINGS.

LIGHTING

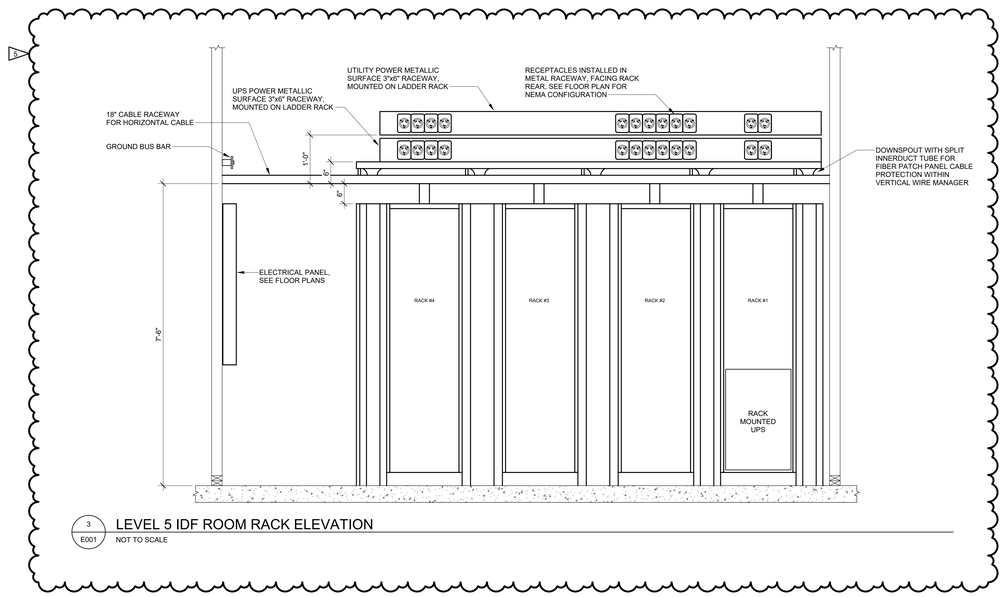
SYMBOL	DESCRIPTION
	LAY-IN OR RECESSED FIXTURE, SIZE ON PLANS
	WALL MOUNTED FIXTURE, SIZE ON PLANS
	SURFACE MOUNTED FIXTURE, SIZE ON PLANS
	PENDANT OR SURFACE MOUNTED FIXTURE, SIZE ON PLANS
	PENDANT MOUNTED FIXTURE, SIZE ON PLANS
	SHADED FIXTURE INDICATES FIXTURE IS UNSWITCHED AND ALSO INDICATES EMERGENCY POWER.
	RECESSED DOWNLIGHT FIXTURE
	SURFACE MOUNTED FIXTURE
	WALL MOUNTED FIXTURE
	WALL WASH OR DIRECTIONAL FIXTURE
	WALL SCONCE FIXTURE
	TRACK FIXTURE, SEE PLAN FOR SIZE AND HEADS
	CEILING FAN FIXTURE
	CEILING MOUNTED, WALL MOUNTED EXIT LIGHT (W/ DIRECTIONAL ARROWS)
	1 HEAD REMOTE EMERGENCY LIGHT
	2 HEAD EMERGENCY LIGHT BATTERY PACK
	1 HEAD REMOTE EMERGENCY LIGHT BATTERY PACK
	2 HEAD LIGHT WITH MOTION SENSOR
	SQUARE POLE MOUNTED FIXTURE, EXTERIOR
	ROUND POLE MOUNTED FIXTURE, EXTERIOR
	POST TOP FIXTURE, EXTERIOR
	BOLLARD FIXTURE, EXTERIOR
	DIRECTIONAL INGROUND FIXTURE, EXTERIOR

ABBREVIATIONS AND MISCELLANEOUS

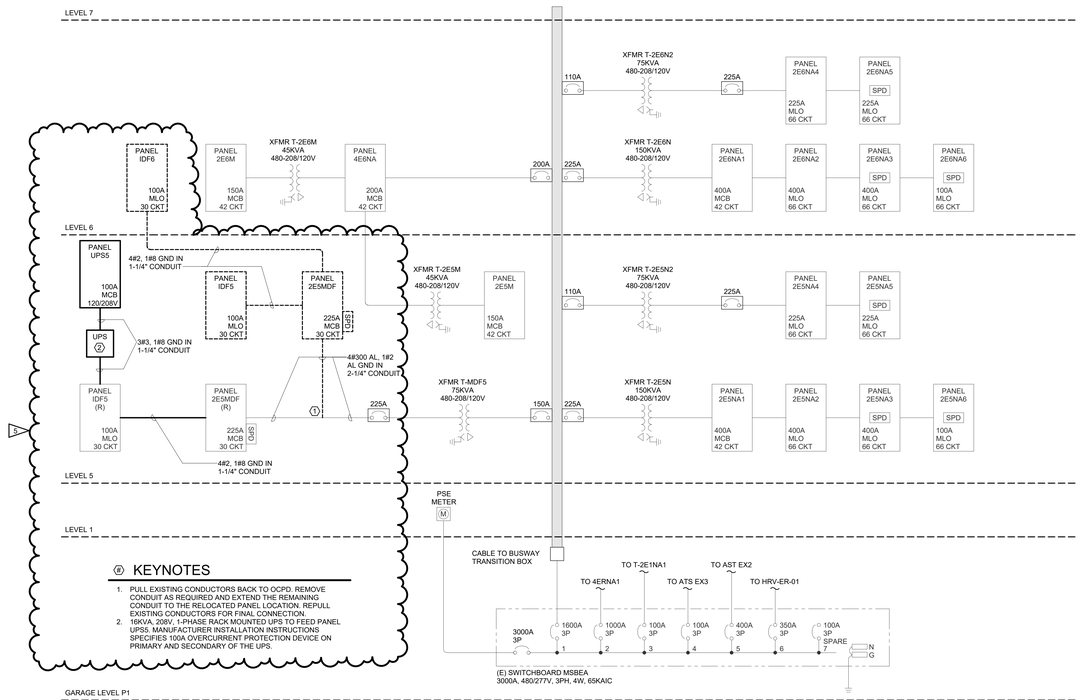
SYMBOL	DESCRIPTION
AC	ABOVE COUNTER, 4" BACK SPLASH
ATS	AUTOMATIC TRANSFER SWITCH
AFF	WALL MOUNTED FLOOR
BOD	BOTTOM OF DEVICE
C	CONDUIT
CLG	CEILING
COD	CENTER OF DEVICE
CU	COPPER
(E)	EXISTING
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
GC	GENERAL CONTRACTOR
GND	GROUND
MC	MECHANICAL CONTRACTOR
(N)	NEW
QTY	QUANTITY
(R)	RELOCATED
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TC	TEMPERATURE CONTROL CONTRACTOR
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUS BAR
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
W/	WITH
WP	WEATHER PROOF (WHILE IN USE)
XFMR	TRANSFORMER
a,b,c etc	SWITCH DESIGNATION
BN1L-2,4,6	CIRCUIT DESIGNATION, PANEL BN1L, CIRCUITS 2,4,6
1/E501	INDICATES DETAIL 1 ON SHEET E501
W	SHEET WORK NOTE
D	SHEET DEMO WORK NOTE
	HOME RUN TO PANEL
	CONDUIT CONCEALED IN CEILING OR WALL
	CONDUIT CONCEALED UNDER FLOOR
	CIRCUIT, PROVIDE 2#12, 1#12 GND IN 3/4" CONDUIT FOR EACH CIRCUIT UNLESS OTHERWISE NOTED ON THE DRAWINGS.

DEVICES AND POWER

SYMBOL	DESCRIPTION
$	SWITCH - SPST
	2 SINGLE POLE, DOUBLE THROW
	3 THREEWAY
	4 FOURWAY
	K KEY OPERATED
	P PILOT LIGHT
	WP WEATHERPROOF
	OS OCCUPANCY SENSOR
	D DIMMER
	MC SPOT-MOMENTARY CONTACT
	LV LOW VOLTAGE
	T TIMER SWITCH
	TS TEST SWITCH
OS	OCCUPANCY SENSOR (CEILING) - SUBSCRIPT IS TYPE
	RECEPTACLE - SIMPLEX
GLG	RECEPTACLE - DUPLEX, MOUNTING IN CEILING
GLG	GFI RECEPTACLE - DUPLEX, MOUNTING IN CEILING
	RECEPTACLE - DUPLEX
	USB DEVICE RECEPTACLE W/ USB-A & USB-C PORTS, 15W USB POWER OUTPUT
	DC DROP CORD
	WP WEATHERPROOF COVER & WEATHER RESISTANT RECEPTACLE
	TR TAMPER RESISTANT
	S SURGE PROTECTED
	RECEPTACLE - DUPLEX WITH TOP HALF CONTROLLED AND PERMANENTLY MARKED "CONTROLLED" - SAME INDICATORS AS SHOWN FOR DUPLEX RECEPTACLE
	GFI RECEPTACLE - DUPLEX (GROUND FAULT INTERRUPT) - SAME INDICATORS AS SHOWN FOR DUPLEX RECEPTACLE
	RECEPTACLE - DOUBLE DUPLEX
	GFI RECEPTACLE - DOUBLE DUPLEX - SAME INDICATORS AS SHOWN FOR DUPLEX RECEPTACLE
	RECEPTACLE - DOUBLE DUPLEX WITH TOP HALF CONTROLLED AND PERMANENTLY MARKED "CONTROLLED" - SAME INDICATORS AS SHOWN FOR DUPLEX RECEPTACLE
	RECEPTACLE - 208V
	R RANGE - NEMA 14-50R
	D DRYER - NEMA 14-30R
	W WELDER - NEMA 14-50R
	* NEMA CONFIGURATION AS NOTED
	208V RECEPTACLE IN RECESSED FLOORBOX
	DUPLEX RECEPTACLE/GFI IN RECESSED FLOORBOX - SAME INDICATORS AS SHOWN FOR DUPLEX RECEPTACLE
	DOUBLE DUPLEX RECEPTACLE/GFI IN RECESSED FLOORBOX - SAME INDICATORS AS SHOWN FOR DUPLEX RECEPTACLE
J J J	J-BOX - BOX INDICATES FLOOR MOUNTING -4"X4"X2-1/8" DEEP UNLESS OTHERWISE NOTED
PP	POWER POLE
T	THERMOSTAT/TEMPERATURE SENSOR BY MC OR TC, J-BOX AND CONDUIT TO CEILING BY EC
CO	CARBON MONOXIDE DETECTOR BY MC, J-BOX & CONDUIT TO CEILING BY EC
$M	MANUAL MOTOR DISCONNECT/STARTER SWITCH
	EMERGENCY PUSHBUTTON
R	RELAY
PC PC	PHOTOCELL, PHOTOCELL WALL MOUNTED
	SPECIAL PURPOSE CONNECTION - BOX INDICATES FLOOR MOUNTING - WORK AS NOTED
	ELECTRIC MOTOR CONNECTION
	COMBINATION STARTER/DISCONNECT SWITCH
	DISCONNECT SWITCH
	CONTACTOR
CB	CIRCUIT BREAKER
VFD	VARIABLE FREQUENCY DRIVE
	CONTROL PANEL
	LCP LIGHTING CONTROL PANEL
	TCP TEMPERATURE CONTROL PANEL
	GAP GENERATOR ANNUNCIATOR PANEL
	PACP PA CONTROL PANEL
	SOCP SWITCHED OUTLET CONTROL PANEL
	TIME CLOCK
	EXISTING PANELBOARD, SURFACE MOUNTED
	EXISTING PANELBOARD, FLUSH MOUNTED
	PANELBOARD, SURFACE MOUNTED
	PANELBOARD, FLUSH MOUNTED
X or	ELECTRIC METER, BUILDING MOUNTED
1000	TRANSFORMER, INTERIOR
	TRANSFORMER, EXTERIOR



3 / E001 LEVEL 5 IDF ROOM RACK ELEVATION
NOT TO SCALE



KEYNOTES

1. PULL EXISTING CONDUCTORS BACK TO OCPD. REMOVE CONDUIT AS REQUIRED AND EXTEND THE REMAINING CONDUIT TO THE RELOCATED PANEL LOCATION. REPULL EXISTING CONDUCTORS FOR FINAL CONNECTION.
2. 16KVA, 208V, 1-PHASE RACK MOUNTED UPS TO FEED PANEL UPS5. MANUFACTURER INSTALLATION INSTRUCTIONS SPECIFIES 100A OVERCURRENT PROTECTION DEVICE ON PRIMARY AND SECONDARY OF THE UPS.

1 / E001 ONE-LINE DIAGRAM
NOT TO SCALE

PANEL: 2E5M — EXISTING PANELBOARD

LOCATION: | **AMPS:** 150 A | **TYPE OF MAIN:** MCB
MOUNTING TYPE: SURFACE | **VOLTAGE:** 120/208 Wye | **MINIMUM AIC RATING:** SEE ONE-LINE DIAGRAM
MANUFACTURER: SIEMENS | **PHASES:** 3 | **FED FROM:** T-2E5M
MODEL TYPE: PANELBOARD | **WIRES:** 4 | **ENCLOSURE:** NEMA 1
NOTES: EXISTING PANELBOARD

LOAD NAME	CKT NO	BKR AMP	POLE	A	B	C	POLE	BKR AMP	CKT NO	LOAD NAME
(E) MECH SW LEVEL 5 FCUs & HRBs	1	30	3	2010 1720			3	30	2	(E) MECH SE LEVEL 5 FCUs & HRBs
--	3	--	--		2010 1720		--	--	4	--
--	5	--	--			2010 1720	--	--	6	--
(E) MECH SE LEVEL 5 FCUs & HRBs	7	30	3	1420 1780			3	30	8	(E) MECH NE LEVEL 5 FCUs & HRBs
--	9	--	--		1420 1780		--	--	10	--
--	11	--	--			1420 1780	--	--	12	--
(E) MECH NW LEVEL 5 FCUs & HRBs	13	20	3	1310 0			3	30	14	SPARE
--	15	--	--		1310 0		--	--	16	--
--	17	--	--			1310 0	--	--	18	--
TEMP COOL UNIT (NOTE #1)	**19**	**50**	**2**	3300 728			2	20	20	(E) FCU-E5-43
--	**21**	--	--		3300 728		--	--	22	--
TEMP COOL UNIT (NOTE #1)	**23**	**50**	**2**			3300 0	1	20	24	SPARE
	25	--	1	3300 --			1	--	26	SPACE
SPACE	27	--	1		-- --		1	--	28	SPACE
SPACE	29	--	1			-- --	1	--	30	SPACE
SPACE	31	--	1	-- --			1	--	32	SPACE
SPACE	33	--	1		-- --		1	--	34	SPACE
SPACE	35	--	1			-- --	1	--	36	SPACE
SPACE	37	--	1	-- --			1	--	38	SPACE
SPACE	39	--	1		-- --		1	--	40	SPACE
SPACE	41	--	1			-- --	1	--	42	SPACE
				15568	12268	11540	**TOTAL CONNECTED PHASE VA**			
				130.7	103.2	96.2	**TOTAL CONNECTED PHASE AMPS**			

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
EQUIPMENT	39376	100.00%	39376	**TOTAL CONNECTED LOAD:** 39376
				TOTAL CONNECTED AMPS: 109.3
				TOTAL EST. DEMAND: 39376
				TOTAL EST. DEMAND AMPS: 109.3

NOTES: 1) PROVIDE NEW BREAKER COMPATIBLE WITH EXISTING PANELBAORD.

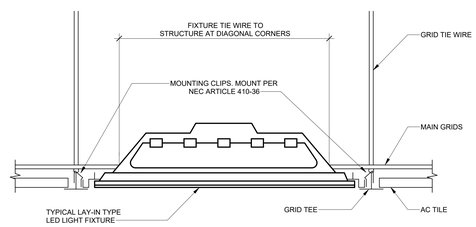
PANEL: UPS5

LOCATION: | **AMPS:** 125 A | **TYPE OF MAIN:** MCB
MOUNTING TYPE: SURFACE | **VOLTAGE:** 120/208 Single | **MINIMUM AIC RATING:** SEE ONE-LINE DIAGRAM
MANUFACTURER: SEE SPECIFICATIONS | **PHASES:** 1 | **FED FROM:** IDF5
MODEL TYPE: PANELBOARD | **WIRES:** 3 | **ENCLOSURE:** NEMA 1
NOTES:

LOAD NAME	CKT NO	BKR AMP	POLE	A	B	POLE	BKR AMP	CKT NO	LOAD NAME
RACK 1 L6-20R	1	20	2	500 500		2	20	2	RACK 1 L6-20R
--	3	--	--		500 500	--	--	4	--
RACK 2 L6-20R	5	20	2	500 500		2	20	6	RACK 2 L6-20R
--	7	--	--		500 500	--	--	8	--
RACK 2 L6-20R	9	20	2	500 500		2	20	10	RACK 2 L6-20R
--	11	--	--		500 500	--	--	12	--
RACK 2 L6-20R	13	20	2	500 500		2	20	14	RACK 2 L6-20R
--	15	--	--		500 500	--	--	16	--
RACK 4 L6-20R	17	20	2	500 500		2	20	18	RACK 4 L6-20R
--	19	--	--		500 500	--	--	20	--
RACK 4 L5-20R	21	20	1	400 400		1	20	22	RACK 4 L5-20R
SPARE	23	20	1		0 180	1	20	24	SECURITY PANEL
SPARE	25	20	1	0 0		1	20	26	SPARE
SPARE	27	20	1		0 0	1	20	28	SPARE
SPARE	29	20	1	0 0		1	20	30	SPARE
SPARE	31	20	1		0 0	1	20	32	SPARE
SPARE	33	20	1	0 0		1	20	34	SPARE
SPARE	35	20	1		0 0	1	20	36	SPARE
SPARE	37	20	1	0 0		1	20	38	SPARE
SPARE	39	20	1		0 0	1	20	40	SPARE
SPARE	41	20	1	0 0		1	20	42	SPARE
				5800	5180	**TOTAL CONNECTED PHASE VA**			
				55	49.8	**TOTAL CONNECTED PHASE AMPS**			

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
EQUIPMENT - CONTINUOUS	10980	125.00%	13725	**TOTAL CONNECTED LOAD:** 10980
				TOTAL CONNECTED AMPS: 52.8
				TOTAL EST. DEMAND: 13725
				TOTAL EST. DEMAND AMPS: 66

NOTES:



2 / E001 LAYIN LIGHT FIXTURE MOUNTING DETAIL
NOT TO SCALE

REVISED
03/05/2025

ELECTRICAL SHEET INDEX

E001	ELECTRICAL LEGENDS AND SCHEDULES
E002	ONE-LINE DIAGRAM AND PANEL SCHEDULES
E017	ELECTRICAL DEMOLITION PLANS - SEVENTH FLOOR
E027	LIGHTING DEMOLITION PLANS - SEVENTH FLOOR
E207	LIGHTING PLANS - SEVENTH FLOOR
E307	POWER PLANS - SEVENTH FLOOR
E501	ELECTRICAL SPECIFICATIONS
E502	ENERGY COMPLIANCE FORMS
E503	ENERGY COMPLIANCE FORMS

Cushing Terrell.
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800.757.9522

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KIRKLAND URBAN LEVEL 5-6

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ISSUE FOR CONSTRUCTION

07.19.2024
PROJ# | GOGL_KUN
DESIGNED BY | HESTAND
DRAWN BY | STOCKWEATHER
REVIEWED BY | MAEHL

REVISIONS
3 12.20.2024 ASI #1
5 03.04.2025 ASI #2

ELECTRICAL LEGENDS, SCHEDULES, AND DETAILS

E001

LIGHTING FIXTURE SCHEDULE

NOTES:
1) MATCH FIXTURE HEIGHT OF EXISTING FIXTURES.
2) INSTALL FIXTURE HORIZONTAL.
3)

TYPE	FIXTURE							LIGHT SOURCE			NOTES
	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	MOUNTING			VOLTAGE	VA	CRI	KELVIN	LUMENS	
				LOCATION	TYPE	HEIGHT						
A1	2x2 RECESSED TROFFER	LITHONIA	2BLT2 33L ADSM EX1 LP835	CEILING	RECESSED	-	277 V	26.50	80	3500	3300 lm	
EX1	EXIT SIGN	LITHONIA	EDG 1 G EL SD - ELA US12	CEILING	PENDANT	-	277 V	2.50	0	GREEN	0 lm	1
L08	3" CYLINDER DOWNLIGHT - HIGH OUTPUT	EUREKA	POINT 4044 LED.18 30 40 277 DV AC 60 RC CHR SA BLKA 3983	CEILING	PENDANT	-	277 V	26.00	80	3000	1600 lm	1
L08A	3" CYLINDER DOWNLIGHT - MEDIUM OUTPUT	EUREKA	POINT 4044 LED.11 30 40 277 DV AC 60 RC CHR SA BLKA 3983	CEILING	PENDANT	-	277 V	22.00	80	3000	1250 lm	1
P1	3' HUDDLE ROOM PENDANT	OCL	LO2 P1EC 36 MW MWP LED1 935 UNV 4B DM1	CEILING	PENDANT	6' 10"	277 V	65.00	90	3500	7600 lm	
R1	4' PHONE ROOM RECESSED LINEAR	NULITE	RG1 D FF 05 H 35 UNV D 1 1 WH 4	CEILING	RECESSED	-	277 V	14.80	90	3500	2000 lm	
R2	6' PHONE ROOM RECESSED LINEAR	NULITE	RG1 D FF 05 H 35 UNV D 1 1 WH 6	CEILING	RECESSED	-	277 V	22.20	90	3500	3000 lm	
R3	6' GENERAL RECESSED LINEAR	MARK	SL2L LOP 6FT FLP GB 80CRI 30K 600LMF MIN1 277 ZT	CEILING	RECESSED	-	277 V	36.00	80	3000	3600 lm	
W1	PHONE ROOM SCONCE	EUREKA	3545-24 LED 35 90 277V DV SL WHE WH 3980B	WALL	SURFACE	4' 8" BOF	277 V	9.10	90	3500	1200 lm	2
WW1	HUDDLE ROOM RECESSED LINEAR WALL WASH	FINELITE	HP2 R WW-D 8' B 935 K SW 277 SC FC-1% C2 FE SW	CEILING	RECESSED	-	277 V	35.20	90	3500	3850 lm	

LIGHTING CONTROL EQUIPMENT SCHEDULE

GENERAL NOTES:
A. LOW VOLTAGE WIRING NOT DEPICTED ON PLAN DIAGRAMS. REFER TO MANUFACTURERS CONNECTION DIAGRAMS FOR LOW VOLTAGE REQUIREMENTS.
B. ALL LOW-VOLTAGE CABLING AND CONTROLLERS SHALL BE PLENUM RATED.
C. CONTRACTORS WORK TO INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
D. FIELD VERIFY EXACT LOCATION OF EACH SENSOR. LOCATE PER MANUFACTURER'S RECOMMENDATIONS. ULTRASONIC SENSORS SHALL BE INSTALLED A MINIMUM OF 5FT FROM ANY HVAC SUPPLY OR RETURN AIR DIFFUSER.
E. ALL CONTROLS SHALL BE FULLY ADJUSTED. ELECTRICAL CONTRACTOR TO PROVIDE TRAINING TO OWNER/MAINTENANCE STAFF FOR PROGRAMMING OF ALL LIGHTING CONTROLS IN PROJECT.
F. ELECTRICAL CONTRACTOR TO PROVIDE FOLLOW UP AT 6 MONTHS AND 1 YEAR TO ADJUST LIGHTING AND LIGHTING CONTROLS AND PROVIDE ADDITIONAL TRAINING TO OWNER/MAINTENANCE STAFF IF REQUESTED.
G. ALL LIGHTING CONTROL DEVICES TO BE PROGRAMMED IN ACCORDANCE WITH WASHINGTON STATE ENERGE CODE.
H. LIGHTING CONTROLS MANUFACTURER SHALL PROVIDE SHOP DRAWINGS INDICATING ALL REQUIRED CONNECTIONS FOR RESPECTIVE MANUFACTURER'S SYSTEM. PROVIDE ALL LIGHTING CONTROLS CONNECTIONS IN ACCORDANCE WITH MANUFACTURER'S SHOP DRAWINGS.

NOTES:
1)

SYMBOL	SUBSCRIPT	MANUFACTURER	CATALOG NUMBER	MOUNTING HEIGHT	VOLTAGE	NOTES
OS		LUTRON	LRF2 OCR2B P WH	CEILING	LOW-VOLTAGE	
$	D	LUTRON	PJ2 4B GWH L01	WALL	LOW-VOLTAGE	

VOLTAGE DROP MATRIX

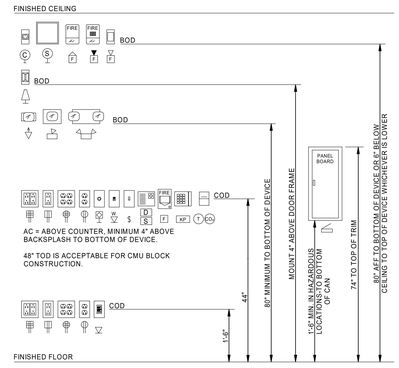
CIRCUIT	VOLTAGE	LOAD	LENGTH	VOLTAGE DROP
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2E5NA1-35	120V	720 VA	112 FT	2.03%
2E5NA1-37	120V	1000 VA	118 FT	2.97%
2E5NA1-39	120V	720 VA	92 FT	1.67%
2E5NA1-41	120V	720 VA	91 FT	1.65%
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2E5NA2-31	120V	1080 VA	96 FT	2.61%
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2E5NA6-37	120V	720 VA	82 FT	1.49%
2E5NA6-8	120V	1080 VA	35 FT	0.95%
2E5NA6-10	120V	1080 VA	33 FT	0.90%
2E5NA6-18	120V	540 VA	75 FT	1.02%
2E5NA6-20	120V	1080 VA	58 FT	1.58%
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2E6NA1-31	120V	540 VA	113 FT	1.54%
2E6NA1-33	120V	720 VA	118 FT	2.14%
2E6NA1-35	120V	1000 VA	119 FT	2.99%
2E6NA2-21	120V	720 VA	89 FT	1.61%
2E6NA2-23	120V	1080 VA	94 FT	2.55%
2E6NA2-25	120V	1080 VA	95 FT	2.58%
2E6NA2-27	120V	1080 VA	88 FT	1.59%
2E6NA2-29	120V	1080 VA	95 FT	2.58%
2E6NA2-31	120V	1080 VA	96 FT	2.61%
2E6NA3-23	120V	720 VA	74 FT	1.34%
2E6NA3-25	120V	720 VA	79 FT	1.43%
2E6NA6-35	120V	720 VA	116 FT	2.10%
2E6NA6-37	120V	720 VA	115 FT	2.08%
2E6NA6-8	120V	1080 VA	34 FT	0.92%
2E6NA6-10	120V	1080 VA	33 FT	0.90%
2E6NA6-12	120V	540 VA	72 FT	0.98%
2E6NA6-14	120V	540 VA	71 FT	0.96%
2E6NA6-18	120V	540 VA	74 FT	1.01%
2E6NA6-20	120V	1080 VA	58 FT	1.58%
2E6NA6-22	120V	1620 VA	73 FT	2.98%

CONTROLLED RECEPTACLE SCHEDULE

ROOM NAME	ROOM NUMBER	STANDARD RECEPTACLE QUANTITY	CONTROLLED RECEPTACLE QUANTITY
PHONE	516	3	3
PHONE	517	3	3
PHONE	518	3	3
PHONE	519	3	3
HUDDLE	531	4	4
PRINT/COPY	534	4	4
PHONE	545	3	3
PHONE	546	3	3
PHONE	547	3	3
PHONE	548	3	3
PHONE	549	3	3
HUDDLE	556	4	4
PHONE	616	3	3
PHONE	617	3	3
PHONE	618	3	3
PHONE	619	3	3
HUDDLE	630	4	4
PRINT/COPY	634	4	4
PHONE	643	3	3
PHONE	644	3	3
PHONE	645	3	3
PHONE	646	3	3
PHONE	647	3	3
PHONE	655	3	3
HUDDLE	658	4	4

SUPERSEDED

INTERIOR BOX MOUNTING HEIGHTS



ELECTRICAL LEGEND

SYMBOLS APPLY ONLY WHEN USED ON DRAWINGS

LIGHTING

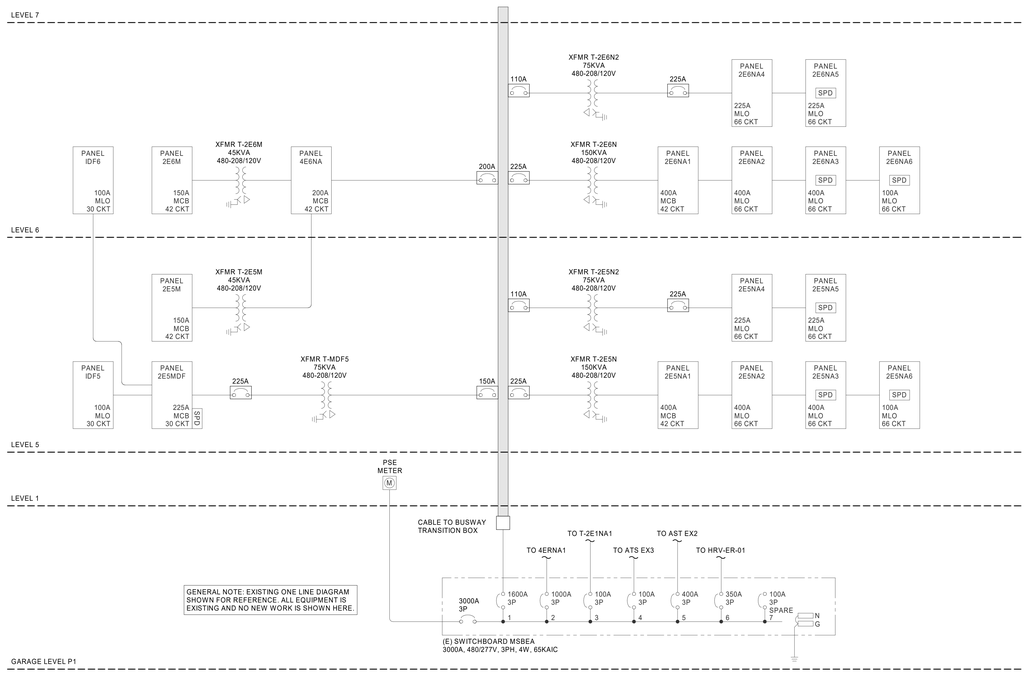
SYMBOL	DESCRIPTION
	LAY-IN OR RECESSED FIXTURE, SIZE ON PLANS
	WALL MOUNTED FIXTURE, SIZE ON PLANS
	SURFACE MOUNTED FIXTURE, SIZE ON PLANS
	PENDANT OR SURFACE MOUNTED FIXTURE, SIZE ON PLANS
	PENDANT MOUNTED FIXTURE, SIZE ON PLANS
	SHADED FIXTURE INDICATES FIXTURE IS UNSWITCHED AND ALSO INDICATES EMERGENCY POWER.
	RECESSED DOWNLIGHT FIXTURE
	SURFACE MOUNTED FIXTURE
	WALL MOUNTED FIXTURE
	WALL WASH OR DIRECTIONAL FIXTURE
	WALL SCONCE FIXTURE
	TRACK FIXTURE, SEE PLAN FOR SIZE AND HEADS
	CEILING FAN FIXTURE
	CEILING MOUNTED, WALL MOUNTED EXIT LIGHT (W/ DIRECTIONAL ARROWS)
	1 HEAD REMOTE EMERGENCY LIGHT
	2 HEAD EMERGENCY LIGHT BATTERY PACK
	1 HEAD REMOTE EMERGENCY LIGHT BATTERY PACK
	2 HEAD LIGHT WITH MOTION SENSOR
	SQUARE POLE MOUNTED FIXTURE, EXTERIOR
	ROUND POLE MOUNTED FIXTURE, EXTERIOR
	POST TOP FIXTURE, EXTERIOR
	BOLLARD FIXTURE, EXTERIOR
	DIRECTIONAL INGROUND FIXTURE, EXTERIOR

ABBREVIATIONS AND MISCELLANEOUS

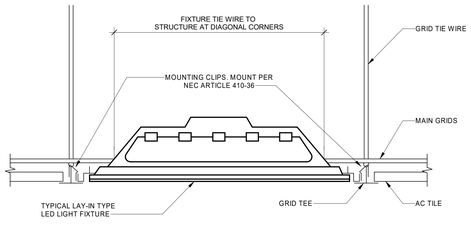
SYMBOL	DESCRIPTION
AC	ABOVE COUNTER, 4" BACK SPLASH
ATS	AUTOMATIC TRANSFER SWITCH
AFF	ABOVE FINISHED FLOOR
BOD	BOTTOM OF DEVICE
C	CONDUIT
CLG	CEILING
COD	CENTER OF DEVICE
CU	COPPER
(E)	EXISTING
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
GC	GENERAL CONTRACTOR
GND	GROUND
MC	MECHANICAL CONTRACTOR
(N)	NEW
QTY	QUANTITY
(R)	RELOCATED
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TC	TEMPERATURE CONTROL CONTRACTOR
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUS BAR
TTB	TELEPHONE TERMINAL BOARD
TYP.	TYPICAL
UON	UNLESS OTHERWISE NOTED
W/	WITH
WP	WEATHER PROOF (WHILE IN USE)
XFMR	TRANSFORMER
a,b,c etc	SWITCH DESIGNATION
BN1L-2,4,6	CIRCUIT DESIGNATION, PANEL BN1L, CIRCUITS 2,4,6
1/E501	INDICATES DETAIL 1 ON SHEET ES01
(#)	SHEET WORK NOTE
(#)	SHEET DEMO WORK NOTE
	HOME RUN TO PANEL
	CONDUIT CONCEALED IN CEILING OR WALL
	CONDUIT CONCEALED UNDER FLOOR
	CIRCUIT, PROVIDE 2#12, 1#12 GND IN 3/4" CONDUIT FOR EACH CIRCUIT UNLESS OTHERWISE NOTED ON THE DRAWINGS.

DEVICES AND POWER

SYMBOL	DESCRIPTION
$	SWITCH - SPST 2 SINGLE POLE, DOUBLE THROW 3 THREEWAY 4 FOURWAY K KEY OPERATED P PILOT LIGHT WP WEATHERPROOF OS OCCUPANCY SENSOR D DIMMER MC SPOT-MOMENTARY CONTACT LV LOW VOLTAGE T TIMER SWITCH TS TEST SWITCH
OS	OCCUPANCY SENSOR (CEILING) - SUBSCRIPT IS TYPE
	RECEPTACLE - SIMPLEX
GFCI	RECEPTACLE - DUPLEX, MOUNTING IN CEILING GFI RECEPTACLE - DUPLEX, MOUNTING IN CEILING
	RECEPTACLE - DUPLEX USB DEVICE RECEPTACLE W/ USB & USB-C PORTS DC DROP CORD WP WEATHERPROOF COVER & WEATHER RESISTANT RECEPTACLE TR TAMPER RESISTANT S SURGE PROTECTED IG ISOLATED GROUND
	RECEPTACLE - DUPLEX WITH TOP HALF CONTROLLED AND PERMANENTLY MARKED "CONTROLLED" - SAME INDICATORS AS SHOWN FOR DUPLEX RECEPTACLE
	GFI RECEPTACLE - DUPLEX (GROUND FAULT INTERRUPT) - SAME INDICATORS AS SHOWN FOR DUPLEX RECEPTACLE
	RECEPTACLE - DOUBLE DUPLEX GFI RECEPTACLE - DOUBLE DUPLEX - SAME INDICATORS AS SHOWN FOR DUPLEX RECEPTACLE
	RECEPTACLE - DOUBLE DUPLEX WITH TOP HALF CONTROLLED AND PERMANENTLY MARKED "CONTROLLED" - SAME INDICATORS AS SHOWN FOR DUPLEX RECEPTACLE
	RECEPTACLE - 208V R RANGE - NEMA 14-50R D DRYER - NEMA 14-30R W WELDER - NEMA 14-50R * NEMA CONFIGURATION AS NOTED
208	208V RECEPTACLE IN RECESSED FLOORBOX
	DUPLEX RECEPTACLE/GFI IN RECESSED FLOORBOX - SAME INDICATORS AS SHOWN FOR DUPLEX RECEPTACLE
	DOUBLE DUPLEX RECEPTACLE/GFI IN RECESSED FLOORBOX - SAME INDICATORS AS SHOWN FOR DUPLEX RECEPTACLE
J J J	J-BOX - BOX INDICATES FLOOR MOUNTING -4"X4"X2-1/8" DEEP UNLESS OTHERWISE NOTED
PP	POWER POLE
T	THERMOSTAT/TEMPERATURE SENSOR BY MC OR TC, J-BOX AND CONDUIT TO CEILING BY EC
CO	CARBON MONOXIDE DETECTOR BY MC, J-BOX & CONDUIT TO CEILING BY EC
$M	MANUAL MOTOR DISCONNECT/STARTER SWITCH
	EMERGENCY PUSHBUTTON
R	RELAY
PC PC	PHOTOCELL, PHOTOCELL WALL MOUNTED
	SPECIAL PURPOSE CONNECTION - BOX INDICATES FLOOR MOUNTING - WORK AS NOTED
	ELECTRIC MOTOR CONNECTION
	COMBINATION STARTER/DISCONNECT SWITCH
	DISCONNECT SWITCH
	CONTACTOR
CB	CIRCUIT BREAKER
VFD	VARIABLE FREQUENCY DRIVE
	CONTROL PANEL LCP LIGHTING CONTROL PANEL TCP TEMPERATURE CONTROL PANEL GAP GENERATOR ANNUNCIATOR PANEL PACP PA CONTROL PANEL SOCP SWITCHED OUTLET CONTROL PANEL
	TIME CLOCK
	EXISTING PANELBOARD, SURFACE MOUNTED
	EXISTING PANELBOARD, FLUSH MOUNTED
	PANELBOARD, SURFACE MOUNTED
	PANELBOARD, FLUSH MOUNTED
M or	ELECTRIC METER, BUILDING MOUNTED
XFMR	TRANSFORMER, INTERIOR
	TRANSFORMER, EXTERIOR



1 E001 EXISTING ONE-LINE DIAGRAM
NOT TO SCALE



2 E001 LAYIN LIGHT FIXTURE MOUNTING DETAIL
NOT TO SCALE

ELECTRICAL SHEET INDEX

E001	ELECTRICAL LEGENDS, SCHEDULES, AND DETAILS
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E501	ELECTRICAL SPECIFICATIONS
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ISSUE FOR PERMIT

06.20.2024
PROJ# | GOGL_KUN
DESIGNED BY | HESTAND
DRAWN BY | STOCKWEATHER
REVIEWED BY | MAEHL
REVISIONS

ELECTRICAL LEGENDS, SCHEDULES, AND DETAILS

E001

PANEL: 2E5NA1 — EXISTING PANELBOARD

LOCATION: | AMPS: 400 A | TYPE OF MAIN: MCB
MOUNTING TYPE: SURFACE | VOLTAGE: 120/208 Wye | MINIMUM AIC RATING: EXISTING
MANUFACTURER: SIEMENS | PHASES: 3 | FED FROM: T-2E5N
MODEL TYPE: PANELBOARD | WIRES: 4 | ENCLOSURE: NEMA 1
NOTES: UTILIZE EXISTING BREAKERS FOR NEW CONNECTIONS UON.

LOAD NAME	CKT NO	BKR AMP	POLE	A	B	C	POLE	BKR AMP	CKT NO	LOAD NAME
SPARE	1	20	1	0	720		1	20	2	(E) PHONE & NSHD ENT RECEPT
SPARE	3	20	1		0	1080	1	20	4	(E) FLEX ROOM RECEPT
SPARE	5	20	1			0	1	20	6	(E) FLEX ROOM RECEPT
FURN OPEN OFFICE 508 CONTROLLED	7	20	1	1920	720		1	20	8	(E) FLEX ROOM RECEPT
(E) FLEX ROOM RECEPT - CONTROLLED	9	20	1			720	1	20	10	(E) SPARE
(E) SPARE	11	20	1			0	1	20	12	(E) SPARE
(E) FLEX & COLLAB ROOM RECEPT	13	20	1	720	720		1	20	14	(E) FLEX & COLLAB ROOM RECEPT
(E) FLEX ROOM RECEPT - CONTROLLED	15	20	1			540	1	20	16	(E) FLEX ROOM RECEPT - CONTROLLED
(E) CONFERENCE ROOM RECEPTACLES	17	20	1			720	1	20	18	(E) SPARE
(E) CONFERENCE ROOM RECEPTACLES	19	20	1	360	720		1	20	20	(E) CONF ROOM RECEPT
(E) CONFERENCE ROOM RECP - CONTROLLED	21	20	1			720	1	20	22	(E) CONF ROOM RECEPT
(E) CONFERENCE ROOM AV RECEPTACLES	23	20	1			180	1	20	24	(E) CONF ROOM RECEPT - CONTROLLED
(E) CONFERENCE ROOM RECEPTACLES	25	20	1	1260	0		1	20	26	(E) SPARE
(E) CONFERENCE ROOM RECEPTACLES	27	20	1		360	0	1	20	28	(E) SPARE
(E) CONFERENCE ROOM RECP - CONTROLLED	29	20	1			1260	1	20	30	(E) SPARE
(E) CONF ROOM AV RECEPTACLES	31	20	1	180	900		1	20	32	(E) SPARE
PRINT ROOM RECEPTACLES - STANDARD	33	20	1		360	0	1	20	34	SPARE
PRINT ROOM RECEPTACLES - CONTROLLED	35	20	1			360	1	20	36	SPARE
PRINTER RECEPTACLE - STANDARD	37	20	1	1000	0		1	20	38	SPARE
REC - HUDDLE 531 - STANDARD	39	20	1		720	1920	1	20	40	FURN OPEN OFFICE 508 CONTROLLED
REC - HUDDLE 531 - CONTROLLED	41	20	1			720	0			
				267	200.4	225.1				FEED THROUGH LUGS TOTAL CONNECTED PHASE AMPS
				460	311.90	318A0				TOTAL CONNECTED PHASE VA
				341.5	259.9	266.2				TOTAL CONNECTED PHASE AMPS

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
EQUIPMENT	3600	100.00%	3600	TOTAL CONNECTED LOAD: 103910
KITCHEN EQUIPMENT	14170	65.00%	9211	TOTAL CONNECTED AMPS: 288.4
Other	180	100.00%	180	
RECEPTACLES	85960	55.82%	47980	TOTAL EST. DEMAND: 60970.5
				TOTAL EST. DEMAND AMPS: 169.2

NOTES:

PANEL: 2E5NA2 — EXISTING PANELBOARD

LOCATION: | AMPS: 400 A | TYPE OF MAIN: MLO
MOUNTING TYPE: SURFACE | VOLTAGE: 120/208 Wye | MINIMUM AIC RATING: EXISTING
MANUFACTURER: SIEMENS | PHASES: 3 | FED FROM: 2E5NA1
MODEL TYPE: PANELBOARD | WIRES: 4 | ENCLOSURE: NEMA 1
NOTES: UTILIZE EXISTING BREAKERS FOR NEW CONNECTIONS UON.

LOAD NAME	CKT NO	BKR AMP	POLE	A	B	C	POLE	BKR AMP	CKT NO	LOAD NAME
SPARE	1	20	1	0	0		1	20	2	SPARE
SPARE	3	20	1			0	1	20	4	SPARE
SPARE	5	20	1			0	1	20	6	SPARE
FURN OPEN OFFICE 508 CONTROLLED	7	20	1	1920	0		1	20	8	FURN OPEN OFFICE 520 CONTROLLED
(E) FURN OPEN OFFICE 508	9	20	1		180	0	1	20	10	SPARE
(E) FURN OPEN OFFICE 508	11	20	1			180	1	20	12	FURN OPEN OFFICE 520 CONTROLLED
(E) FURN OPEN OFFICE 508 CONTROLLED	13	20	1	180	0		1	20	14	SPARE
SPARE	15	20	1		0	0	1	20	16	SPARE
SPARE	17	20	1			0	1	20	18	FURN OPEN OFFC 520 CONTROLLED
FURN OPEN OFFICE 508 CONTROLLED	19	20	1	1440	0		1	20	20	SPARE
SPARE	21	20	1		0	0	1	20	22	SPARE
REC - PHONE ROOM 516, 517 - STANDARD	23	20	1			1080	0	1	20	SPARE
REC - PHONE ROOM 516, 517 - CONTROLLED	25	20	1	1080	1440		1	20	26	FURN OPEN OFFC 520 CONTROLLED
REC - PHONE ROOM 518, 519 - STANDARD	27	20	1			1080	0	1	20	SPARE
SPARE	29	20	1		0	0	1	20	30	SPARE
REC - PHONE ROOM 518,519 - CONTROLLED	31	20	1	1080	720		1	20	32	FURN OPEN OFFICE 520 CONTROLLED
SPARE	33	20	1		0	0	1	20	34	(E) SMOKE DETECTOR
SPARE	35	20	1			0	1	20	36	(E) JANITOR & QUIET ROOM RECEPT
FURN OPEN OFFICE 520 CONTROLLED	37	20	1	1440	1080		1	20	38	(E) RESTROOM & QUIET ROOM RECEPT
SPARE	39	20	1		0	0	1	20	40	(E) SPARE
SPARE	41	20	1			0	1	20	42	(E) LIBRARY RECEPT
FURN OPEN OFFICE 520 CONTROLLED	43	20	1	1440	360		1	20	44	(E) NSHD ENT & COLLAB RECEPT
SPARE	45	20	1		0	540	1	20	46	(E) LIBRARY RECEPT - CONTROLLED
FURN OPEN OFFICE 520 CONTROLLED	47	20	1			480	0	1	20	48	(E) SPARE
SPARE	49	20	1	0	0		1	20	50	(E) SPARE
SPARE	51	20	1		0	1080	1	20	52	(E) FLEX ROOM RECEPT
FURN OPEN OFFICE 520 CONTROLLED	53	20	1			1200	720	1	20	54	(E) FLEX ROOM RECEPT - CONTROLLED
SPARE	55	20	1	0	0		1	20	56	(E) SPARE
SPARE	57	20	1		0	0	1	20	58	(E) SPARE
FURN OPEN OFFICE 520 CONTROLLED	59	20	1	1440	900		1	20	60	(E) CONF ROOM RECEPT
SPARE	61	20	1	0	1440		1	20	62	(E) CONF ROOM RECEPT
SPARE	63	20	1		0	900	1	20	64	(E) CONF ROOM RECEPT - CONTROLLED
FURN OPEN OFFICE 520 CONTROLLED	65	20	1			1440	0	1	20	66	(E) SPARE
				155	174.3	114.8				FEED THROUGH LUGS TOTAL CONNECTED PHASE AMPS
				316A0	24090	29620				TOTAL CONNECTED PHASE VA
				266.6	200.4	225.1				TOTAL CONNECTED PHASE AMPS

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
EQUIPMENT	3600	100.00%	3600	TOTAL CONNECTED LOAD: 92270
KITCHEN EQUIPMENT	14170	65.00%	9211	TOTAL CONNECTED AMPS: 228.4
Other	180	100.00%	180	
RECEPTACLES	64320	57.77%	37160	TOTAL EST. DEMAND: 50150.5
				TOTAL EST. DEMAND AMPS: 139.2

NOTES:

PANEL: 2E5NA3 — EXISTING PANELBOARD

LOCATION: | AMPS: 400 A | TYPE OF MAIN: MLO
MOUNTING TYPE: SURFACE | VOLTAGE: 120/208 Wye | MINIMUM AIC RATING: EXISTING
MANUFACTURER: SIEMENS | PHASES: 3 | FED FROM: 2E5NA2
MODEL TYPE: PANELBOARD | WIRES: 4 | ENCLOSURE: NEMA 1
NOTES: UTILIZE EXISTING BREAKERS FOR NEW CONNECTIONS UON.

LOAD NAME	CKT NO	BKR AMP	POLE	A	B	C	POLE	BKR AMP	CKT NO	LOAD NAME
(E) SPARE	1	20	1	0	180		1	20	2	(E) PANTRY COUNTER RECEPT
(E) COLD CASE	3	20	1			750	960	1	20	4	(E) PANTRY COFFEE
(E) WATER DISP	5	20	1				180	1200	1	20	6	(E) PANTRY GRINDER
(E) SPARE	7	20	1	0	1300				1	20	8	(E) PANTRY ESPRESSO
(E) PANTRY MICROWAVE	9	20	1			1000	750		1	20	10	(E) PANTRY INSTA-HOT
(E) PANTRY MICROWAVE	11	20	1				1000	1200	1	20	12	(E) PANTRY DISHWASHER
(E) PANTRY TOASTER	13	20	1	1080	1800				1	20	14	(E) PANTRY DISPOSAL
(E) PANTRY INSTA-HOT	15	20	1			750	1000		1	20	16	(E) PANTRY REFRIGERATOR
(E) PANTRY ICE MAKER	17	20	1				1800	540	1	20	18	(E) PANTRY RECEPT
(E) PANTRY DISHWASHER	19	20	1	1200	720				1	20	20	(E) PANTRY RECEPT
(E) PANTRY DISPOSAL	21	20	1			1800	180		1	20	22	(E) PANTRY RECEPT
(E) PANTRY COUNTER RECEPTACLE	23	20	1				360	0	1	20	24	(E) SPARE
REC - TREADMILL WALK STATION 507	25	20	1	720	1080				1	20	26	(E) TRAINING RM B RECEPTACLES
REC - TREADMILL WALK STATION 507	27	20	1			720	720		1	20	28	(E) TRAINING RM B RECEPT - CONTROLLED
REC - PHONE BOOTHS	29	20	1	180	960				1	20	30	(E) SPARE
REC - PHONE BOOTHS	31	20	1			360	0		1	20	32	(E) TRAINING RM B RECEPTACLES
(E) SPARE	33	20	1	540	0				1	20	34	(E) TRAINING RM B RECEPTACLES
(E) SPARE	35	20	1			0	0		1	20	36	(E) SPARE
(E) WINDOW SHADES	37	20	1	180	0				1	20	38	(E) TRAINING RM B RECEPTACLES
(E) SPARE	39	20	1			720	0		1	20	40	(E) TRAINING RM B RECEPTACLES
(E) SPARE	41	20	1				0	0	1	20	42	(E) SPARE
(E) SPARE	43	20	1	0	0				1	20	44	(E) SPARE
FURN OPEN OFFICE 508	45	20	1			1920	1440		1	20	46	(E) TRAINING RM B RECEPTACLES
SPARE	47	20	1				0	1080	1	20	48	(E) TRAINING RM B RECEPT - CONTROLLED
SPARE	49	20	1	0	0				1	20	50	(E) SPARE
SPARE	51	20	1			0	0		1	20	52	(E) TRAINING RM B RECEPTACLES
SPARE	53	20	1				0	0	1	20	54	(E) TRAINING RM B RECEPTACLES
SPARE	55	20	1	0	0				1	20	56	(E) SPARE
SPARE	57	20	1			0	0		1	20	58	(E) SPARE
FURN OPEN OFFICE 508 CONTROLLED	59	20	1			1920	720		1	20	60	(E) TRAINING RM B RECEPTACLES
FLEX ROOM RECEPT	61	20	1	900	8280				3	100	62	(E) ZE5NAB
FLEX ROOM RECEPT - CONTROLLED	63	20	1		540	7020			--	--	64	--
	65	20	1				180	3240	--	--	66	--
				17980	20270	13780				TOTAL CONNECTED PHASE VA
				155.2	174.3	114.8				TOTAL CONNECTED PHASE AMPS

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
EQUIPMENT	3600	100.00%	3600	TOTAL CONNECTED LOAD: 52030
KITCHEN EQUIPMENT	14170	65.00%	9211	TOTAL CONNECTED AMPS: 144.4
Other	180	100.00%	180	
RECEPTACLES	34080	64.67%	22040	TOTAL EST. DEMAND: 35030.5
				TOTAL EST. DEMAND AMPS: 97.2

NOTES:

PANEL: IDF5 — RELOCATED

LOCATION: | AMPS: 100 A | TYPE OF MAIN: MLO
MOUNTING TYPE: SURFACE | VOLTAGE: 120/208 Wye | MINIMUM AIC RATING: SEE ONE-LINE DIAGRAM
MANUFACTURER: SIEMENS | PHASES: 3 | FED FROM: 2E5MDF
MODEL TYPE: PANELBOARD | WIRES: 4 | ENCLOSURE: NEMA 1
NOTES:

LOAD NAME	CKT NO	BKR AMP	POLE	A	B	C	POLE	BKR AMP	CKT NO	LOAD NAME
PANEL UPS5 (NOTE #1)	1	100	2	5800	500			2	20	2	RACK 1 L6-20R (NOTE #3)
--	3	--	--			5180	500		--	4	--
RACK 1 L6-20R (NOTE #3)	5	20	2				500	500	2	20	6	RACK 2 L6-20R (NOTE #3)
--	7	--	--	500	500				--	--	8	--
RACK 2 L6-20R (NOTE #3)	9	20	2			500	500		2	20	10	RACK 2 L6-20R (NOTE #3)
--	11	--	--				500	500	--	--	12	--
RACK 3 L6-20R (NOTE #3)	13	20	2	500	400				1	20	14	RACK 4 L6-20R (NOTE #2)
--	15	--	--			500	400		1	20	16	RACK 4 L6-20R (NOTE #2)
RACK 2 L6-20R (NOTE #3)	17	20	2					500	180	1	20	IDF RECEPTACLE (NOTE #2)
	19	--	--	500	500			2	20	20	RACK 2 L6-20R (NOTE #3)	
(E) SPACE	21	--	1			--	500		--	--	22	--
(E) SPACE	23	--	1					--	500	2	20	RACK 4 L6-20R (NOTE #3)
(E) SPACE	25	--	1	--	500				--	--	26	--
(E) SPACE	27	--	1			--	500		2	20	28	RACK 4 L6-20R (NOTE #3)
(E) SPACE	29	--	1					--	500	--	--	30	--
				9700	8580	3680				TOTAL CONNECTED PHASE VA
				87.1	77.8	30.7				TOTAL CONNECTED PHASE AMPS

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
EQUIPMENT - CONTINUOUS	21780	125.00%	27225	TOTAL CONNECTED LOAD: 21960
RECEPTACLES	180	100.00%	180	TOTAL CONNECTED AMPS: 61
				TOTAL EST. DEMAND: 27405
				TOTAL EST. DEMAND AMPS: 76.1

NOTES: 1. UTILIZE EXISTING 100A/2P BREAKER FOR NEW UPS5 PANELBOARD CONNECTION VIA RACK MOUNTED UPS.
2. UTILIZE EXISIBNG BREAKER FOR NEW CONNECTION.
3. PROVIDE NEW CIRCUIT BREAKER COMPATIBLE WITH EXISTING PANEL FOR NEW CONNECTION

PANEL: 2E5NA4 — EXISTING PANELBOARD

LOCATION: | AMPS: 225 A | TYPE OF MAIN: MLO
MOUNTING TYPE: RECESSED | VOLTAGE: 120/208 Wye | MINIMUM AIC RATING: EXISTING
MANUFACTURER: SIEMENS | PHASES: 3 | FED FROM: T-2E5N2
MODEL TYPE: PANELBOARD | WIRES: 4 | ENCLOSURE: NEMA 1
NOTES: UTILIZE EXISTING BREAKERS FOR NEW CONNECTIONS UON.

LOAD NAME	CKT NO	BKR AMP	POLE	A	B	C	POLE	BKR AMP	CKT NO	LOAD NAME
SPARE	1	20	1	0	0		1	20	2	SPARE
FURN OPEN OFFICE 535 CONTROLLED	3	20	1		720	0	1	20	4	SPARE
SPARE	5	20	1			0	0	1	20	6	SPARE
SPARE	7	20	1	0	1920		1	20	8	FURN OPEN OFFICE 535 CONTROLLED
SPARE	9	20	1			0	1	20	10	SPARE
FURN OPEN OFFICE 535 CONTROLLED	11	20	1				1440	0	1	20	12	SPARE
SPARE	13	20	1	1440	540		1	20	14	
SPARE	15	20	1			0	360		1	20	16	FURN OPEN OFFICE 535 CONTROLLED
SPARE	17	20	1				0	0	1	20	18	SPARE
FURN OPEN OFFICE 535 CONTROLLED	19	20	1	1680	0		1	20	20	SPARE
SPARE	21	20	1		0	0	1	20	22	(E) SPARE
SPARE	23	20	1			0	1920	1	20	24	FURN OPEN OFFICE 535 CONTROLLED
FURN OPEN OFFICE 535 CONTROLLED	25	20	1	1440	0		1	20	26	SPARE
SPARE	27	20	1		0	0	1	20	28	SPARE
SPARE	29	20	1			0	1200	1	20	30	FURN OPEN OFFICE 550 CONTROLLED
SPARE	31	20	1	0	0		1	20	32	SPARE
FURN OPEN OFFICE 535 CONTROLLED	33	20	1		1680	0	1	20	34	SPARE
SPARE	35	20	1			0	1440	1	20	36	SPARE
SPARE	37	20	1	0	0		1	20	38	SPARE
FURN OPEN OFFICE 535 CONTROLLED	39	20	1		1440	0	1	20	40	SPARE
(E) LIGHTING CONTROL	41	20	1			114	1440	1	20	42	FURN OPEN OFFICE 550 CONTROLLED
(E) SPARE	43	20	1	0	0		1	20	44	(E) SPARE
(E) SPARE	45	20	1			0	0	1	20	46	(E) SPARE
(E) SPARE	47	20	1		0	0	0	1	20	48	(E) SPARE
(E) SPARE	49	20	1	0	0		1	20	50	(E) SPARE
(E) SPARE	51	20	1			0	0	1	20	52	(E) SPARE
(E) SPARE	53	20	1		0	0	0	1	20	54	(E) SPARE
(E) SPARE	55	20	1	0	0		1	20	56	(E) SPARE
(E) SPARE	57	20	1			0	0	1	20	58	(E) SPARE
(E) SPARE	59	20	1		0	0	0	1	20	60	(E) SPARE
(E) SPARE	61	20	1	0	0		1	20	62	(E) SPARE
(E) SPARE	63	20	1			0	0	1	20	64	(E) SPARE
(E) SPARE	65	20	1				0	0	1	20	66	(E) SPARE
				540	11940	1080				TOTAL CONNECTED PHASE VA
				4.5	100.2	9.7				TOTAL CONNECTED PHASE AMPS

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
RECEPTACLES	13560	86.87%	11780	TOTAL CONNECTED LOAD: 13560
				TOTAL CONNECTED AMPS: 37.6
				TOTAL EST. DEMAND: 11780
				TOTAL EST. DEMAND AMPS: 32.7

NOTES:

PANEL: 2E5NA5 — EXISTING PANELBOARD

LOCATION: | AMPS: 225 A | TYPE OF MAIN: MLO
MOUNTING TYPE: RECESSED | VOLTAGE: 120/208 Wye | MINIMUM AIC RATING: EXISTING
MANUFACTURER: SIEMENS | PHASES: 3 | FED FROM: 2E5NA4
MODEL TYPE: PANELBOARD | WIRES: 4 | ENCLOSURE: NEMA 1
NOTES: UTILIZE EXISTING BREAKERS FOR NEW CONNECTIONS UON.

LOAD NAME	CKT NO	BKR AMP	POLE	A	B	C	POLE	BKR AMP	CKT NO	LOAD NAME
(E) SPARE	1	20	1	0	0		1	20	2	(E) SPARE
(E) SPARE	3	20	1		0	0	1	20	4	(E) SPARE
SPARE	5	20	1			0	1	20	6	SPARE
SPARE	7	20	1		1440	1440	1	20	8	SPARE
FURN OPEN OFFICE 551 CONTROLLED	9	20	1			0	1	20	10	SPARE
SPARE	11	20	1		0	0	1	20	12	SPARE
SPARE	13	20	1	0	0		1	20	14	SPARE
FURN OPEN OFFICE 550 CONTROLLED	15	20	1		1440	1440	1	20	16	FURN OPEN OFFICE 551 CONTROLLED
SPARE	17	20	1			0	0	1	20	18	(E) SPARE
SPARE	19	20	1	0	0		1	20	20	(E) SPARE
FURN OPEN OFFICE 550 CONTROLLED	21	20	1		1440	0	1	20	22	(E) SPARE
SPARE	23	20	1			0	0	1	20	24	(E) SPARE
SPARE	25	20	1	0	0		1	20	26	(E) SPARE
FURN OPEN OFFICE 551 CONTROLLED	27	20	1		960	0	1	20	28	(E) SPARE
SPARE	29	20	1			0	0	1	20	30	(E) SPARE
SPARE	31	20	1	0	540		1	20	32	(E) CONFERENCE ROOM RECEPT
FURN OPEN OFFICE 551 CONTROLLED	33	20	1		960	900	1	20	34	(E) CONFERENCE ROOM RECEPT
SPARE	35	20	1			0	900	1	20	36	(E) CONF ROOM RECEPT - CONTROLLED
SPARE	37	20	1	0	0		1	20	38	SPARE
FURN OPEN OFFICE 551 CONTROLLED	39	20	1		1440	480	1	20	40	FURN OPEN OFFICE 551 CONTROLLED
(E) WINDOW SHADES	41	20	1			0	180	2	20	42	(E) WINDOW SHADES
(E) SPARE	43	20	1	0	0		1	20	44	(E) SPARE
(E) SPARE	45	20	1		0	0	1	20	46	(E) SPARE
(E) SPARE	47	20	1			0	0	1	20	48	(E) SPARE
(E) SPARE	49	20	1	0	0		1	20	50	(E) SPARE
(E) SPARE	51	20	1			0	0	1	20	52	(E) SPARE
(E) SPARE	53	20	1		0	0	0	1	20	54	(E) SPARE
(E) SPARE	55	20	1	0	0		1	20	56	(E) SPARE
(E) SPARE	57	20	1			0	0	1	20	58	(E) SPARE
(E) SPARE	59	20	1		0	0	0	1	20	60	(E) SPARE
(E) SPARE	61	20	1	0	0		1	20	62	(E) SPARE
(E) SPARE	63	20	1			0	0	1	20	64	(E) SPARE
(E) SPARE	65	20	1				0	0	1	20	66	(E) SPARE
				8280	7020	3240				TOTAL CONNECTED PHASE VA
				73.8	63.3	27				TOTAL CONNECTED PHASE AMPS

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
RECEPTACLES	18540	76.97%	14270	TOTAL CONNECTED LOAD: 18540
				TOTAL CONNECTED AMPS: 51.5
				TOTAL EST. DEMAND: 14270
				TOTAL EST. DEMAND AMPS: 39.6

NOTES:

PANEL: 2E6NA1 — EXISTING PANELBOARD

LOCATION: | AMPS: 200 A | TYPE OF MAIN: MCB
MOUNTING TYPE: SURFACE | VOLTAGE: 120/208 Wye | MINIMUM AIC RATING: EXISTING
MANUFACTURER: SIEMENS | PHASES: 3 | FED FROM: T-2E6N
MODEL TYPE: PANELBOARD | WIRES: 4 | ENCLOSURE: NEMA 1
NOTES: UTILIZE EXISTING BREAKERS FOR NEW CONNECTIONS UON.

LOAD NAME	CKT NO	BKR AMP	POLE	A	B	C	POLE	BKR AMP	CKT NO	LOAD NAME
(E) LOUNGE 579 RECEPT	1	20	1	1260	720		1	20	2	(E) PHONE & NSHD ENT RECEPT
(E) REC - LOUNGE 579	3	20	1		360	1080	1	20	4	(E) FLEX ROOM RECEPT
(E) REC - PHONE RM 621,622 - CONTROLLED	5	20	1			1260	720	1	20	6	(E) FLEX ROOM RECEPT - CONTROLLED
(E) REC - PHONE RM 621,622	7	20	1	360	1080			1	20	8	(E) FLEX ROOM RECEPT
(E) LOUNGE 579 RECEPT	9	20	1			1620	720	1	20	10	(E) FLEX ROOM RECEPT - CONTROLLED
(E) LOUNGE 579 RECP - CONTROLLED	11	20	1				360	0	1	20	12	(E) SPARE
(E) CONFERENCE ROOM RECEPT	13	20	1	1440	540				1	20	14	(E) FLEX ROOM RECEPT
(E) SPARE	15	20	1			0	360		1	20	16	(E) FLEX ROOM RECEPT - CONTROLLED
(E) CONF ROOM RECEPT	17	20	1				720	0	1	20	18	(E) SPARE
(E) CONF ROOM RECEPT	19	20	1	360	720				1	20	20	(E) CONF ROOM RECEPT
(E) CONF ROOM RECEPT - CONTROLLED	21	20	1			900	360		1	20	22	(E) CONF ROOM RECEPT
(E) SPARE	23	20	1				0	720	1	20	24	(E) CONF ROOM RECEPT - CONTROLLED
(E) CONF ROOM RECEPT	25	20	1	1440	0				1	20	26	(E) SPARE
(E) CONF ROOM RECEPT	27	20	1		360	0			1	20	28	SPARE
(E) CONF ROOM RECEPT - CONTROLLED	29	20	1			1260	0		1	20	30	SPARE
REC - PRINT/COPY 634 - STANDARD	31	20	1	360	960				1	20	32	FURN OPEN OFFICE CONTROLLED
REC - PRINT/COPY 634 - CONTROLLED	33	20	1		540	0			1	20	34	SPARE
PRINTER RECEPTACLE - STANDARD	35	20	1			1000	0		1	20	36	SPARE
GAME ROOM SIGNAGE	37	20	1	180	0				1	20	38	SPARE
(E) SPARE	39	20	1		0	1920			1	20	40	FURN OPEN OFFICE CONTROLLED
(E) SPARE	41	20	1				0	0				
				316	190.9	255.6				FEED THROUGH LUGS TOTAL CONNECTED PHASE AMPS
				46300	31126.5	35600				TOTAL

PANEL: 2E5NA1

LOCATION:
MOUNTING TYPE: SURFACE
MANUFACTURER: SIEMENS
MODEL TYPE: PANELBOARD

AMPS: 400 A
VOLTAGE: 120/208 Wye
PHASES: 3
WIRES: 4

TYPE OF MAIN: MCB
MINIMUM AIC RATING: EXISTING
FED FROM: T-2E5N
ENCLOSURE: NEMA 1
NOTES: EXISTING PANELBOARD

LOAD NAME	CKT NO	BKR AMP	POLE	A	B	C	POLE	BKR AMP	CKT NO	LOAD NAME
(E) FURN OPEN OFFICE 508	1	20	1	540	720		1	20	2	(E) PHONE & NBHD ENT RECEPT
(E) FURN OPEN OFFICE 508	3	20	1		720	1080	1	20	4	(E) FLEX ROOM RECEPT
(E) FURN OPEN OFFICE 508	5	20	1			180	1080	1	20	6	(E) FLEX ROOM RECEPT
(E) FURN OPEN OFFICE 508 CONTROLLED	7	20	1	1440	720				1	20	8	(E) FLEX ROOM RECEPT
(E) FLEX ROOM RECEPT - CONTROLLED	9	20	1		720	0			1	20	10	(E) SPARE
(E) SPARE	11	20	1				0	0	1	20	12	(E) SPARE
(E) FLEX ROOM RECEPTACLES	13	20	1	720	720				1	20	14	(E) FLEX & COLLAB ROOM RECEPT
(E) FLEX ROOM RECEPT - CONTROLLED	15	20	1			540	360		1	20	16	(E) FLEX ROOM RECEPT - CONTROLLED
(E) CONFERENCE ROOM RECEPTACLES	17	20	1				720	0	1	20	18	(E) SPARE
(E) CONFERENCE ROOM RECEPTACLES	19	20	1	360	720				1	20	20	(E) CONF ROOM RECEPT
(E) CONFERENCE ROOM RECP - CONTROLLED	21	20	1			720	360		1	20	22	(E) CONF ROOM RECEPT
(E) CONFERENCE ROOM AV RECEPTACLES	23	20	1				180	720	1	20	24	(E) CONF ROOM RECEPT - CONTROLLED
(E) CONFERENCE ROOM RECEPTACLES	25	20	1	1260	0				1	20	26	(E) SPARE
(E) CONFERENCE ROOM RECEPTACLES	27	20	1			360	360		1	20	28	(E) FURN OPEN OFFICE 508
(E) CONFERENCE ROOM RECP - CONTROLLED	29	20	1				1260	360	1	20	30	(E) FURN OPEN OFFICE 508
(E) CONF ROOM AV RECEPTACLES	31	20	1	180	720				1	20	32	(E) FURN OPEN OFFICE 508 CONTROLLED
PRINT ROOM RECEPTACLES - STANDARD	33	20	1			540	540		1	20	34	(E) FURN OPEN OFFICE 508
PRINT ROOM RECEPTACLES - CONTROLLED	35	20	1				540	540	1	20	36	(E) FURN OPEN OFFICE 508
PRINTER RECEPTACLE - STANDARD	37	20	1	1000	360				1	20	38	(E) FURN OPEN OFFICE 508
REC - HUDDLE 531 - STANDARD	39	20	1		720	1440			1	20	40	(E) FURN OPEN OFFICE 508 CONTROLLED
REC - HUDDLE 531 - CONTROLLED	41	20	1				720	0	1	20	42	(E) SPARE
				4302.0	3923.0	3418.0				**TOTAL CONNECTED PHASE VA**
				371.6	333.4	284.8				**TOTAL CONNECTED PHASE AMPS**

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
EQUIPMENT	3600	100.00%	3600	**TOTAL CONNECTED LOAD:** 117230
KITCHEN EQUIPMENT	14170	65.00%	9211	**TOTAL CONNECTED AMPS:** 325.4
Other	180	100.00%	180	
RECEPTACLES	99280	55.04%	54640	**TOTAL EST. DEMAND:** 67630.5
				TOTAL EST. DEMAND AMPS: 187.7

NOTES:

PANEL: 2E5NA2

LOCATION:
MOUNTING TYPE: SURFACE
MANUFACTURER: SIEMENS
MODEL TYPE: PANELBOARD

AMPS: 400 A
VOLTAGE: 120/208 Wye
PHASES: 3
WIRES: 4

TYPE OF MAIN: MLO
MINIMUM AIC RATING: EXISTING
FED FROM: 2E5NA1
ENCLOSURE: NEMA 1
NOTES: EXISTING PANELBOARD

LOAD NAME	CKT NO	BKR AMP	POLE	A	B	C	POLE	BKR AMP	CKT NO	LOAD NAME
(E) FURN OPEN OFFICE 508	1	20	1	540	540		1	20	2	(E) FURN OPEN OFFICE 520
(E) FURN OPEN OFFICE 508	3	20	1		540	540	1	20	4	(E) FURN OPEN OFFICE 520
(E) FURN OPEN OFFICE 508	5	20	1			360	1080	1	20	6	(E) FURN OPEN OFFICE 520 CONTROLLED
(E) FURN OPEN OFFICE 508 CONTROLLED	7	20	1	1440	540				1	20	8	(E) FURN OPEN OFFICE 520
(E) FURN OPEN OFFICE 508	9	20	1		180	540			1	20	10	(E) FURN OPEN OFFICE 520
(E) FURN OPEN OFFICE 508	11	20	1				180	1080	1	20	12	(E) FURN OPEN OFFICE 520 CONTROLLED
(E) FURN OPEN OFFICE 508 CONTROLLED	13	20	1	180	540				1	20	14	(E) FURN OPEN OFFICE 520
(E) FURN OPEN OFFICE 508	15	20	1		540	540			1	20	16	(E) FURN OPEN OFFICE 520
(E) FURN OPEN OFFICE 508	17	20	1				540	1080	1	20	18	(E) FURN OPEN OFFC 520 CONTROLLED
(E) FURN OPEN OFFICE 508	19	20	1	1080	360				1	20	20	(E) FURN OPEN OFFICE 520
SPARE	21	20	1		0	360			1	20	22	(E) FURN OPEN OFFICE 520
REC - PHONE ROOM 516, 517 - STANDARD	23	20	1				1080	360	1	20	24	(E) FURN OPEN OFFICE 520
REC - PHONE ROOM 516, 517 - CONTROLLED	25	20	1	1080	1080				1	20	26	(E) FURN OPEN OFFC 520 CONTROLLED
REC - PHONE ROOM 518, 519 - STANDARD	27	20	1			180	180		1	20	28	(E) FURN OPEN OFFICE 520
SPARE	29	20	1				0	360	1	20	30	(E) FURN OPEN OFFICE 520
REC - PHONE ROOM 518,519 - CONTROLLED	31	20	1	1080	540				1	20	32	(E) FURN OPEN OFFICE 520 CONTROLLED
(E) FURN OPEN OFFICE 520	33	20	1			540	0		1	20	34	(E) SPARE
(E) FURN OPEN OFFICE 520	35	20	1				540	540	1	20	36	(E) JANITOR & QUIET ROOM RECEPT
(E) FURN OPEN OFFICE 520 CONTROLLED	37	20	1	1080	1080				1	20	38	(E) RESTROOM & QUIET ROOM RECEPT
(E) FURN OPEN OFFICE 520	39	20	1		540	0			1	20	40	(E) SPARE
(E) FURN OPEN OFFICE 520	41	20	1				540	540	1	20	42	(E) LIBRARY RECEPT
(E) FURN OPEN OFFICE 520 CONTROLLED	43	20	1	1080	360				1	20	44	(E) NBHD ENT & COLLAB RECEPT
(E) FURN OPEN OFFICE 520	45	20	1		360	540			1	20	46	(E) LIBRARY RECEPT - CONTROLLED
(E) FURN OPEN OFFICE 520 CONTROLLED	47	20	1				360	0	1	20	48	(E) SPARE
(E) FURN OPEN OFFICE 520	49	20	1	360	0				1	20	50	(E) SPARE
(E) FURN OPEN OFFICE 520	51	20	1		540	1080			1	20	52	(E) FLEX ROOM RECEPT
(E) FURN OPEN OFFICE 520 CONTROLLED	53	20	1				900	720	1	20	54	(E) FLEX ROOM RECEPT - CONTROLLED
(E) FURN OPEN OFFICE 520	55	20	1	540	0				1	20	56	(E) SPARE
(E) FURN OPEN OFFICE 520	57	20	1		540	0			1	20	58	(E) SPARE
(E) FURN OPEN OFFICE 520 CONTROLLED	59	20	1				1080	900	1	20	60	(E) CONF ROOM RECEPT
(E) FURN OPEN OFFICE 520	61	20	1	540	1440				1	20	62	(E) CONF ROOM RECEPT
(E) FURN OPEN OFFICE 520	63	20	1			540	900		1	20	64	(E) CONF ROOM RECEPT - CONTROLLED
(E) FURN OPEN OFFICE 520 CONTROLLED	65	20	1					0	1	20	66	(E) SPARE
				34360	30770	27880				**TOTAL CONNECTED PHASE VA**
				286.1	232.3	154.9				**TOTAL CONNECTED PHASE AMPS**

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
EQUIPMENT	3600	100.00%	3600	**TOTAL CONNECTED LOAD:** 93010
KITCHEN EQUIPMENT	14170	65.00%	9211	**TOTAL CONNECTED AMPS:** 258.2
Other	180	100.00%	180	
RECEPTACLES	75060	56.66%	42530	**TOTAL EST. DEMAND:** 55520.5
				TOTAL EST. DEMAND AMPS: 154.1

NOTES:

PANEL: 2E5NA3

LOCATION:
MOUNTING TYPE: SURFACE
MANUFACTURER: SIEMENS
MODEL TYPE: PANELBOARD

AMPS: 400 A
VOLTAGE: 120/208 Wye
PHASES: 3
WIRES: 4

TYPE OF MAIN: MLO
MINIMUM AIC RATING: EXISTING
FED FROM: 2E5NA2
ENCLOSURE: NEMA 1
NOTES: EXISTING PANELBOARD

LOAD NAME	CKT NO	BKR AMP	POLE	A	B	C	POLE	BKR AMP	CKT NO	LOAD NAME
(E) SPARE	1	20	1	0	180		1	20	2	(E) PANTRY COUNTER RECEPT
(E) COLD CASE	3	20	1		750	960	1	20	4	(E) PANTRY COFFEE
(E) WATER DISP.	5	20	1			180	1200	1	20	6	(E) PANTRY GRINDER
(E) SPARE	7	20	1	0	1300				1	20	8	(E) PANTRY ESPRESSO
(E) PANTRY MICROWAVE	9	20	1		1000	750			1	20	10	(E) PANTRY INSTA-HOT
(E) PANTRY MICROWAVE	11	20	1				1000	1200	1	20	12	(E) PANTRY DISHWASHER
(E) PANTRY TOASTER	13	20	1	1080	1800				1	20	14	(E) PANTRY DISPOSAL
(E) PANTRY INSTA-HOT	15	20	1			750	1000		1	20	16	(E) PANTRY REFRIGERATOR
(E) PANTRY ICE MAKER	17	20	1					1800	540	1	20	18	(E) PANTRY RECEPT
(E) PANTRY DISHWASHER	19	20	1	1200	720					1	20	20	(E) PANTRY RECEPT
(E) PANTRY DISPOSAL	21	20	1			1800	180			1	20	22	(E) PANTRY RECEPT
(E) PANTRY COUNTER RECEPTACLE	23	20	1				360	0	1	20	24	(E) SPARE
REC - TREADMILL WALK STATION 507	25	20	1	720	1080					1	20	26	(E) TRAINING RM B RECEPTACLES
REC - TREADMILL WALK STATION 507	27	20	1		720	720				1	20	28	(E) TRAINING RM B RECEPT - CONTROLLED
REC - PHONE BOOTHS	29	20	1				540	0	1	20	30	(E) SPARE
REC - PHONE BOOTHS	31	20	1	540	0					1	20	32	(E) TRAINING RM B RECEPTACLES
(E) SPARE	33	20	1		0	0				1	20	34	(E) TRAINING RM B RECEPTACLES
(E) SPARE	35	20	1				0	0	1	20	36	(E) SPARE
(E) WINDOW SHADES	37	20	1	180	0					1	20	38	(E) TRAINING RM B RECEPTACLES
(E) SPARE	39	20	1		0	720				1	20	40	(E) TRAINING RM B RECEPTACLES
(E) SPARE	41	20	1	0	0					1	20	42	(E) SPARE
(E) SPARE	43	20	1				0	0	1	20	44	(E) SPARE
(E) FURN OPEN OFFICE 508	45	20	1		540	0				1	20	46	(E) TRAINING RM B RECEPTACLES
(E) FURN OPEN OFFICE 508	47	20	1				540	1080	1	20	48	(E) TRAINING RM B RECEPTACLES
(E) FURN OPEN OFFICE 508	49	20	1	360	0					1	20	50	(E) SPARE
(E) FURN OPEN OFFICE 508	51	20	1		1440	0				1	20	52	(E) TRAINING RM B RECEPTACLES
(E) FURN OPEN OFFICE 508	53	20	1	540	0					1	20	54	(E) TRAINING RM B RECEPTACLES
(E) FURN OPEN OFFICE 508	55	20	1			360	0			1	20	56	(E) SPARE
(E) FURN OPEN OFFICE 508	57	20	1				1440	720	1	20	58	(E) SPARE
(E) FURN OPEN OFFICE 508 CONTROLLED	59	20	1							1	20	60	(E) TRAINING RM B RECEPTACLES
(E) FLEX ROOM RECEPT	61	20	1	900	8280		1440	720	1	20	62	(E) 2E5NA6
(E) FLEX ROOM RECEPT - CONTROLLED	63	20	1		540	7020				3	100	64	--
(E) COLLAB RECEPTACLE	65	20	1				180	3240	--	--	--	66	--
				18880	20690	14560				**TOTAL CONNECTED PHASE VA**
				162.9	178	121.3				**TOTAL CONNECTED PHASE AMPS**

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
EQUIPMENT	3600	100.00%	3600	**TOTAL CONNECTED LOAD:** 54130
KITCHEN EQUIPMENT	14170	65.00%	9211	**TOTAL CONNECTED AMPS:** 150.2
Other	180	100.00%	180	
RECEPTACLES	36180	63.82%	23090	**TOTAL EST. DEMAND:** 36080.5
				TOTAL EST. DEMAND AMPS: 100.1

NOTES:

PANEL: 2E5NA4

LOCATION:
MOUNTING TYPE: RECESSED
MANUFACTURER: SIEMENS
MODEL TYPE: PANELBOARD

AMPS: 225 A
VOLTAGE: 120/208 Wye
PHASES: 3
WIRES: 4

TYPE OF MAIN: MLO
MINIMUM AIC RATING: EXISTING
FED FROM: T-2E5N2
ENCLOSURE: NEMA 1
NOTES: EXISTING PANELBOARD

LOAD NAME	CKT NO	BKR AMP	POLE	A	B	C	POLE	BKR AMP	CKT NO	LOAD NAME
(E) FURN OPEN OFFICE 535	1	20	1	540	540		1	20	2	(E) FURN OPEN OFFICE 535
(E) FURN OPEN OFFICE 535 CONTROLLED	3	20	1		540	540	1	20	4	(E) FURN OPEN OFFICE 535
(E) FURN OPEN OFFICE 535	5	20	1			540	360	1	20	6	(E) FURN OPEN OFFICE 535
(E) FURN OPEN OFFICE 535	7	20	1	360	1440				1	20	8	(E) FURN OPEN OFFICE 535 CONTROLLED
(E) FURN OPEN OFFICE 535	9	20	1		180	540			1	20	10	(E) FURN OPEN OFFICE 535
(E) FURN OPEN OFFICE 535 CONTROLLED	11	20	1				1080	540	1	20	12	(E) FURN OPEN OFFICE 535
(E) FURN OPEN OFFICE 535	13	20	1	540	0				1	20	14	(E) SPARE
(E) FURN OPEN OFFICE 535	15	20	1		360	1080			1	20	16	(E) FLEX ROOM RECEPT - CONTROLLED
(E) FURN OPEN OFFICE 535	17	20	1				360	720	1	20	18	(E) SPARE
(E) FURN OPEN OFFICE 535 CONTROLLED	19	20	1	1260	720				1	20	20	(E) FURN OPEN OFFICE 535
(E) FURN OPEN OFFICE 535	21	20	1		540	0			1	20	22	(E) SPARE
(E) FURN OPEN OFFICE 535	23	20	1				540	1440	1	20	24	(E) FURN OPEN OFFICE 535 CONTROLLED
(E) FURN OPEN OFFICE 535 CONTROLLED	25	20	1	1080	540				1	20	26	(E) FURN OPEN OFFICE 535
(E) FURN OPEN OFFICE 535	27	20	1			360	360		1	20	28	(E) FURN OPEN OFFICE 535
(E) FURN OPEN OFFICE 535	29	20	1				540	900	1	20	30	(E) FURN OPEN OFFICE 535 CONTROLLED
(E) FURN OPEN OFFICE 535	31	20	1	360	540				1	20	32	(E) FURN OPEN OFFICE 550
(E) FURN OPEN OFFICE 535 CONTROLLED	33	20	1			1260	540		1	20	34	(E) FURN OPEN OFFICE 550
(E) FURN OPEN OFFICE 535	35	20	1				540	1080	1	20	36	(E) FURN OPEN OFFICE 550 CONTROLLED
(E) FURN OPEN OFFICE 535	37	20	1	540	540				1	20	38	(E) FURN OPEN OFFICE 550
(E) FURN OPEN OFFICE 535 CONTROLLED	39	20	1		1080	540			1	20	40	(E) FURN OPEN OFFICE 550
(E) LIGHTING L5 DECORATIVE LIGHTING	41	20	1			114	1080		1	20	42	(E) FURN OPEN OFFICE 550 CONTROLLED
(E) SPARE	43	20	1	0	0				1	20	44	(E) SPARE
(E) SPARE	45	20	1		0	0			1	20	46	(E) SPARE
(E) SPARE	47	20	1			0	0	0	1	20	48	(E) SPARE
(E) SPARE	49	20	1	0	0				1	20	50	(E) SPARE
(E) SPARE	51	20	1		0	0			1	20	52	(E) SPARE
(E) SPARE	53	20	1			0	0	0	1	20	54	(E) SPARE
(E) SPARE	55	20	1	0	0				1	20	56	(E) SPARE
(E) SPARE	57	20	1		0	0			1	20	58	(E) SPARE
(E) SPARE	59	20	1			0	0	0	1	20	60	(E) SPARE
(E) SPARE	61	20	1	0	0				1	20	62	(E) SPARE
(E) SPARE	63	20	1		0	0			1	20	64	(E) SPARE
(E) SPARE	65	20	1			0	0	0	1	20	66	(E) SPARE
				13860	16560	15414				**TOTAL CONNECTED PHASE VA**
				115.5	140	130.4				**TOTAL CONNECTED PHASE AMPS**

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
EQUIPMENT	0	0.00%	0	**TOTAL CONNECTED LOAD:** 45834
LIGHTING	114	125.00%	143	**TOTAL CONNECTED AMPS:** 127.2
RECEPTACLES	45720	60.94%	27860	
				TOTAL EST. DEMAND: 28002.5
				TOTAL EST. DEMAND AMPS: 77.7

NOTES:

PANEL: 2E5NA5

LOCATION:
MOUNTING TYPE: RECESSED
MANUFACTURER: SIEMENS
MODEL TYPE: PANELBOARD

AMPS: 225 A
VOLTAGE: 120/208 Wye
PHASES: 3
WIRES: 4

TYPE OF MAIN: MLO
MINIMUM AIC RATING: EXISTING
FED FROM: 2E5NA4
ENCLOSURE: NEMA 1
NOTES: EXISTING PANELBOARD

LOAD NAME	CKT NO	BKR AMP	POLE	A	B	C	POLE	BKR AMP	CKT NO	LOAD NAME
(E) SPARE	1	20	1	0	0		1	20	2	(E) SPARE
(E) SPARE	3	20	1		0	0	1	20	4	(E) SPARE
(E) FURN OPEN OFFICE 550	5	20	1			540	540	1	20	6	(E) FURN OPEN OFFICE 551
(E) FURN OPEN OFFICE 550	7	20	1	540	540				1	20	8	(E) FURN OPEN OFFICE 551
(E) FURN OPEN OFFICE 550 CONTROLLED	9	20	1		1080	1080			1	20	10	(E) FURN OPEN OFFICE 551 CONTROLLED
(E) FURN OPEN OFFICE 550	11	20	1			540	540	1	20	12	(E) FURN OPEN OFFICE 551
(E) FURN OPEN OFFICE 550	13	20	1	540	540				1	20	14	(E) FURN OPEN OFFICE 551
(E) FURN OPEN OFFICE 550 CONTROLLED	15	20	1		1080	1080			1	20	16	(E) FURN OPEN OFFICE 551 CONTROLLED
(E) FURN OPEN OFFICE 550	17	20	1			1080	0	0	1	20	18	(E) SPARE
(E) FURN OPEN OFFICE 550	19	20	1	540	0				1	20	20	(E) SPARE
(E) FURN OPEN OFFICE 550 CONTROLLED	21	20	1		540	0			1	20	22	(E) SPARE
(E) FURN OPEN OFFICE 551	23	20	1			360	0	0	1	20	24	(E) SPARE
(E) FURN OPEN OFFICE 551	25	20	1	360	0				1	20	26	(E) SPARE
(E) FURN OPEN OFFICE 551 CONTROLLED	27	20	1		720	0			1	20	28	(E) SPARE
(E) FURN OPEN OFFICE 551	29	20	1			360	0	0	1	20	30	(E) SPARE
(E) FURN OPEN OFFICE 551	31	20	1	360	540				1	20	32	(E) CONFERENCE ROOM RECEPT
(E) FURN OPEN OFFICE 551 CONTROLLED	33	20	1		720	900			1	20	34	(E) CONFERENCE ROOM RECEPT
(E) FURN OPEN OFFICE 551	35	20	1				540	900	1	20	36	(E) CONF ROOM RECP - CONTROLLED
(E) FURN OPEN OFFICE 551	37	20	1	540	360				1	20	38	(E) FURNITURE OPEN OFFICE 551
(E) FURN OPEN OFFICE 551 CONTROLLED	39	20	1		1080	360			1	20	40	(E) FURN OPEN OFFICE 551 CONTROLLED
(E) SPARE	41	20	1			0	180	1	20	42	(E) WINDOW SHADES	
(E) SPARE	43	20	1	0	0				1	20	44	(E) SPARE
(E) SPARE	45	20	1			0	0		1	20	46	(E) SPARE
(E) SPARE	47	20	1				0	0	1	20	48	(E) SPARE
(E) SPARE	49	20	1	0	0				1	20	50	(E) SPARE
(E) SPARE	51	20	1		0	0			1	20	52	(E) SPARE
(E) SPARE	53	20	1			0	0	0	1	20	54	(E) SPARE
(E) SPARE	55	20	1	0	0				1	20	56	(E) SPARE
(E) SPARE	57	20	1		0	0			1	20	58	(E) SPARE
(E) SPARE	59	20	1			0	0	0	1	20	60	(E) SPARE
(E) SPARE	61	20	1	0	0				1	20	62	(E) SPARE
(E) SPARE	63	20	1		0	0			1	20	64	(E) SPARE
(E) SPARE	65	20	1			0	0	0	1	20	66	(E) SPARE
				4860	8640	5580				**TOTAL CONNECTED PHASE VA**
				40.5	72.9	47.4				**TOTAL CONNECTED PHASE AMPS**

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
EQUIPMENT	0	0.00%	0	**TOTAL CONNECTED LOAD:** 19080
RECEPTACLES	19080	76.21%	14540	**TOTAL CONNECTED AMPS:** 53
				TOTAL EST. DEMAND: 14540
				TOTAL EST. DEMAND AMPS: 40.4

NOTES:

PANEL: 2E5NA6

LOCATION:
MOUNTING TYPE: RECESSED
MANUFACTURER: SIEMENS
MODEL TYPE: PANELBOARD

AMPS: 100 A
VOLTAGE: 120/208 Wye
PHASES: 3
WIRES: 4

TYPE OF MAIN: MLO
MINIMUM AIC RATING: EXISTING
FED FROM: 2E5NA3
ENCLOSURE: NEMA 1
NOTES: EXISTING PANELBOARD

LOAD NAME	CKT NO	BKR AMP	POLE	A	B	C	POLE	BKR AMP	CKT NO	LOAD NAME
(E) COLLAB & NBHD ENT ROOM RECEPT	1	20	1	360	0		1	20	2	(E) SPARE
(E) FLEX ROOM RECEPT	3	20	1		1080	0	1	20	4	(E) SPARE
(E) SPARE	5	20	1			0	0	1	20	6	**SPARE**
(E) REC - PHONE ROOM 541 - CONTROLLED	7	20	1	180	1080				1	20	8	**REC - PHONE ROOM 548, 549**
(E) SPARE	9	20	1			0	1080		1	20	10	**REC - PHONE ROOM 546, 549 - CONTROLLED**
(E) PHONE ROOM RECEPT	11	20	1				180	0	1	20	12	**SPARE**
(E) FLEX ROOM RECEPT	13	20	1	1620	0				1	20	14	**SPARE**
(E) FLEX ROOM RECEPT - CONTROLLED	15	20	1			720	0		1	20	16	**SPARE**
(E) SPARE	17	20	1				0	540	1	20	18	**REC - PHONE ROOM 545 - STANDARD**
(E) FLEX ROOM RECEPT	19	20	1	1080	1080				1	20	20	**REC - PHONE ROOM 546, 547 - STANDARD**
(E) FLEX ROOM RECEPT - CONTROLLED	21	20	1			720	1620		1	20	22	**REC - PHONE ROOM 545,546,547 CONTROLLED**
(E) COLLAB ROOM RECEPT	23	20	1				720	0	1	20	24	**SPARE**
(E) FLEX ROOM RECEPT	25	20	1	1080	0				1	20	26	**SPARE**
(E) FLEX ROOM RECEPT - CONTROLLED	27	20	1			720	0		1	20	28	**SPARE**
SPARE	29	20	1				0	1080	1	20	30	(E) CONFERENCE ROOM RECEPT
(E) TRAINING ROOM RECEPT	31	20	1	360	720				1	20	32	(E) CONFERENCE ROOM RECEPT
(E) SPARE	33	20	1			0	1080		1	20	34	(E) CONF ROOM RECEPT - CONTROLLED
REC - HUDDLE 556 - STANDARD	35	20	1				720	0	1	20	36	(E) SPARE
REC - HUDDLE 556 - CONTROLLED	37	20	1	720	0				1	20	38	(E) SPARE
SPARE	39	20	1			0	0		1	20	40	(E) SPARE
(E) SPARE	41	20	1				0	0	1	20	42	(E) SPARE
(E) SPARE	43	20	1	0	0				1	20	44	(E) SPARE
(E) SPARE	45	20	1			0	0		1	20	46	(E) SPARE
(

KEYNOTES

1. REMOVE CONDUIT AND CONDUCTORS BACK TO NEAREST PULL BOX ABOVE CEILING, CONDUCTORS THAT ARE TO BE REUSED ARE TO REMAIN IN VICINITY, CONDUCTORS THAT ARE NOT REUSED ARE TO BE REMOVED BACK TO SOURCE. CONDUIT TO BE REUSED AND EXTENDED TO NEW CONNECTIONS. REFER TO NEW WORK PLANS.
2. REMOVE FLOORBOX FOR EXISTING FURNITURE CONNECTION, COORDINATE PATCH AND REPAIR OF CARPET AND CONCRETE SLAB WITH GENERAL CONTRACTOR. REMOVE CONDUIT AND CONDUCTORS BACK TO SOURCE.
3. WHITEBOARD BEHIND RECEPTACLE TO BE REMOVED BY OTHERS, MODIFY DEVICE AND BACKBOX AS REQUIRED FOR NEW WALL FINISH, REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
4. RELOCATE EXISTING MECHANICAL UNIT CONNECTION, REFER TO NEW WORK PLANS AND MECHANICAL PLANS. CIRCUIT TO REMAIN IN VICINITY FOR REUSE.
5. REMOVE ALL POWER CONNECTIONS WITHIN IDF ROOM BACK TO SOURCE.
6. PANEL IDF5, PANEL 2E5MDF, AND SPD TO BE RELOCATED ONCE ALL BRANCH CIRCUITS ARE REMOVED, REFER TO SHEET E305 FOR NEW PANEL LOCATION AND NEW BRANCH CIRCUITING. REFER TO SHEET E001 FOR ONE-LINE DIAGRAM.

GENERAL DEMOLITION NOTES

A. ELECTRICAL WORK IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. PATCHING AND PAINTING IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
B. DISCONNECT ALL ELECTRICAL ITEMS WHICH ARE TO BE REMOVED AND/OR RELOCATED WHILE MAINTAINING CONTINUITY OF REMAINING CIRCUITRY.
C. PROVIDE NEW CONDUCTORS, RACEWAYS, ETC., AS REQUIRED TO MAINTAIN OPERATION OF EXISTING OUTLETS, EQUIPMENT, ETC. WHICH REMAIN OR ARE RELOCATED.
D. NO EXISTING WIRING MAY BE REUSED IN THE NEW ELECTRICAL WORK UNLESS OTHERWISE NOTED.
E. ALL EXISTING CIRCUITS, CONDUIT AND WIRE THAT ARE NOT IN USE AFTER DEMOLITION IS COMPLETED SHALL BE REMOVED.
F. EXISTING CONDUITS IN THE FLOOR WHICH ARE NOT USED AND WHICH ARE ABANDONED SHALL BE TRIMMED TO FLOOR SURFACE, GROUND FLUSH AND FILLED WITH GROUT. FINISH FLOOR TO MATCH EXISTING.
G. WORK SHALL BE PERFORMED WITH NO DISRUPTION OF THE OWNER'S BUSINESS. ALL ELECTRICAL POWER DISRUPTIONS SHALL BE SCHEDULED AND APPROVED BY THE OWNER.
H. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH NEC, STATE AND LOCAL BUILDING CODE.
I. ALL DASHED ITEMS ON DEMOLITION PLANS ARE TO BE REMOVED UNLESS NOTED OTHERWISE. SOLID ITEMS ARE TO REMAIN OR TO BE RELOCATED AS NOTED. NOTE - ITEMS SHOWN IN THE DEMOLITION PLANS ARE BASED ON FIELD OBSERVATIONS. ADDITIONAL ELECTRICAL ITEMS MAY BE ENCOUNTERED THAT ARE NOT SHOWN - ALL GENERAL ELECTRICAL ITEMS ARE TO BE REMOVED THAT ARE NOT SHOWN, BUT ARE IN AREAS OF COMPLETE REMODEL.
J. HATCH DENOTES AREAS OUTSIDE OF THE SCOPE OF WORK. ALL EXISTING ELECTRICAL EQUIPMENT, DEVICES, LUMINAIRES, ETC. IN THESE AREAS ARE EXISTING TO REMAIN, UNLESS NOTED OTHERWISE.

REVISED
03/05/2025

1 / E015 ELECTRICAL DEMOLITION PLAN - FIFTH FLOOR
1/8" = 1'-0"

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ISSUE FOR CONSTRUCTION

07.19.2024
PROJ# | GOGL_KUN
DESIGNED BY | HESTAND
DRAWN BY | STOCKWEATHER
REVIEWED BY | MAEHL
REVISIONS
5 - 03.04.2025 ASI #2

ELECTRICAL DEMOLITION PLANS - FIFTH FLOOR

E015

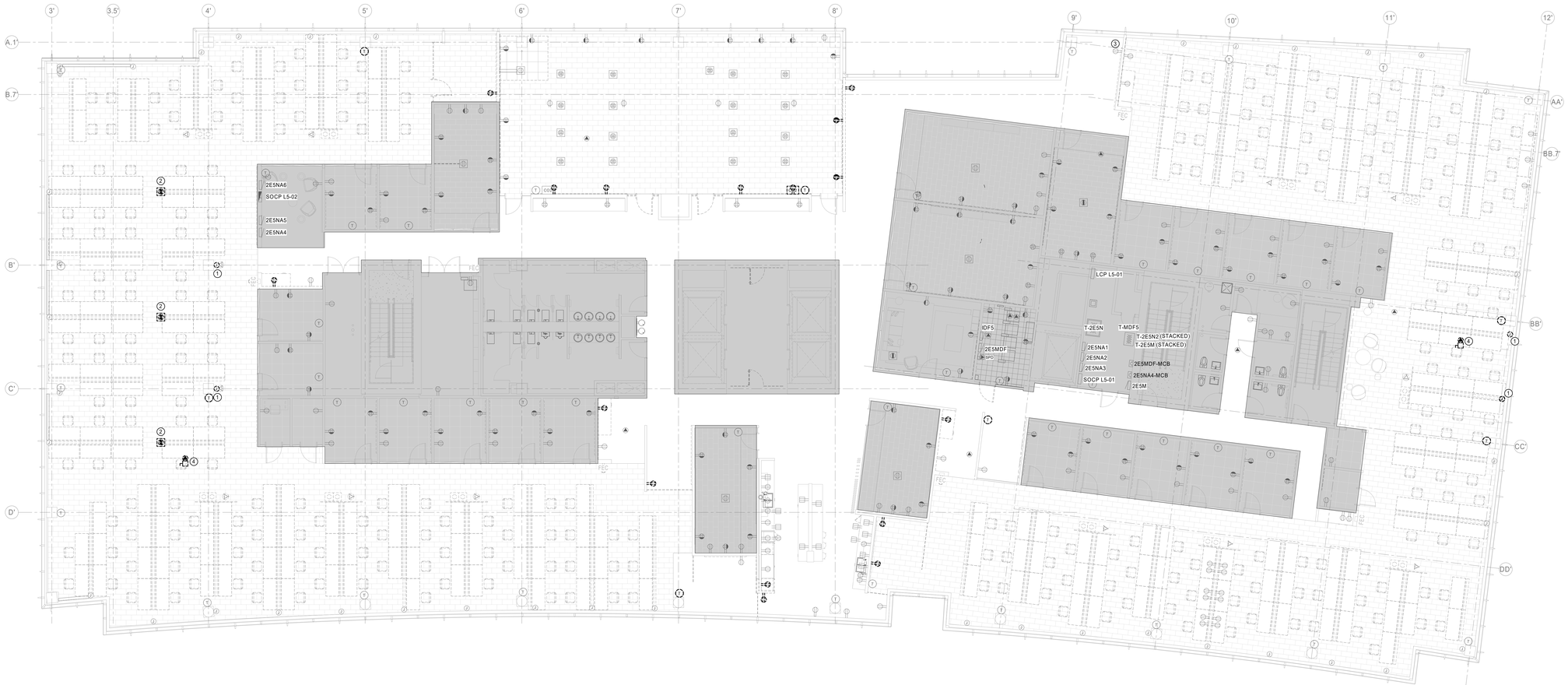
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D. NO EXISTING WIRING MAY BE REUSED IN THE NEW ELECTRICAL WORK UNLESS OTHERWISE NOTED.
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SUPERSEDED



1 / E015 ELECTRICAL DEMOLITION PLAN - FIFTH FLOOR
1/8" = 1'-0"

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06.20.2024
PROJ# | GOGL_KUN
DESIGNED BY | HESTAND
DRAWN BY | STOCKWEATHER
REVIEWED BY | MAEHL
REVISIONS

ELECTRICAL DEMOLITION PLANS - FIFTH FLOOR

E015

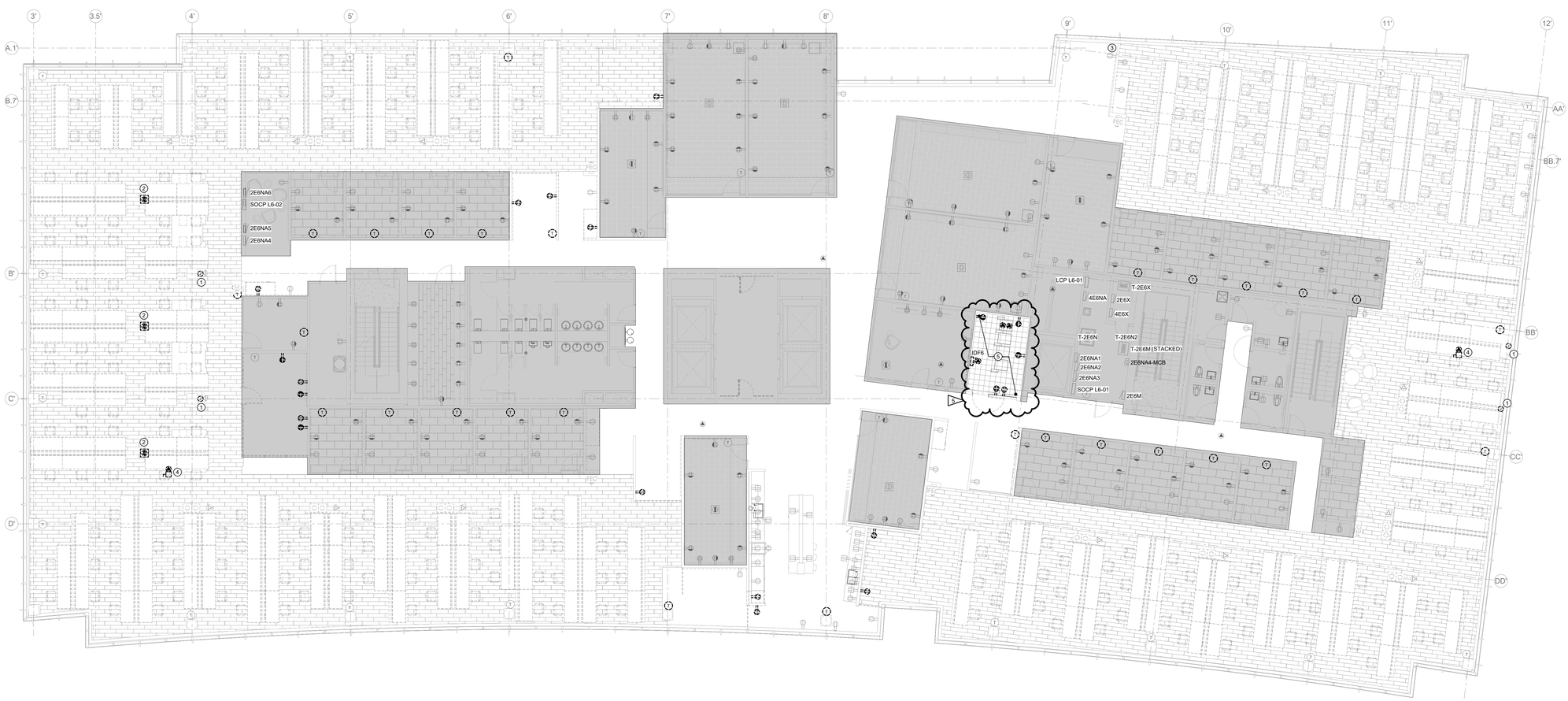
KEYNOTES

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REVISED
03/05/2025



1 / E016 ELECTRICAL DEMOLITION PLAN - SIXTH FLOOR
1/8" = 1'-0"

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07.19.2024
PROJ# | GOGL_KUN
DESIGNED BY | HESTAND
DRAWN BY | STOCKWEATHER
REVIEWED BY | MAEHL
REVISIONS
5 03.04.2025 ASI #2

ELECTRICAL DEMOLITION PLANS - SIXTH FLOOR

E016

SUPERSEDED

KEYNOTES

1. REMOVE CONDUIT AND CONDUCTORS BACK TO NEAREST PULL BOX ABOVE CEILING. CONDUCTORS THAT ARE TO BE REUSED ARE TO REMAIN IN VICINITY. CONDUCTORS THAT ARE NOT REUSED ARE TO BE REMOVED BACK TO SOURCE. CONDUIT TO BE REUSED AND EXTENDED TO NEW CONNECTIONS. REFER TO NEW WORK PLANS.
2. REMOVE FLOORBOX FOR EXISTING FURNITURE CONNECTION. COORDINATE PATCH AND REPAIR OF CARPET AND CONCRETE SLAB WITH GENERAL CONTRACTOR. REMOVE CONDUIT AND CONDUCTORS BACK TO SOURCE.
3. WHITEBOARD BEHIND RECEPTACLE TO BE REMOVED BY OTHERS. MODIFY DEVICE AND BACKBOX AS REQUIRED FOR NEW WALL FINISH. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
4. RELOCATE EXISTING MECHANICAL UNIT CONNECTION. REFER TO NEW WORK PLANS AND MECHANICAL PLANS. CIRCUIT TO REMAIN IN VICINITY FOR REUSE.

GENERAL DEMOLITION NOTES

A. ELECTRICAL WORK IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. PATCHING AND PAINTING IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
B. DISCONNECT ALL ELECTRICAL ITEMS WHICH ARE TO BE REMOVED AND/OR RELOCATED WHILE MAINTAINING CONTINUITY OF REMAINING CIRCUITRY.
C. PROVIDE NEW CONDUCTORS, RACEWAYS, ETC., AS REQUIRED TO MAINTAIN OPERATION OF EXISTING OUTLETS, EQUIPMENT, ETC. WHICH REMAIN OR ARE RELOCATED.
D. NO EXISTING WIRING MAY BE REUSED IN THE NEW ELECTRICAL WORK UNLESS OTHERWISE NOTED.
E. ALL EXISTING CIRCUITS, CONDUIT AND WIRE THAT ARE NOT IN USE AFTER DEMOLITION IS COMPLETED SHALL BE REMOVED.
F. EXISTING CONDUITS IN THE FLOOR WHICH ARE NOT USED AND WHICH ARE ABANDONED SHALL BE TRIMMED TO FLOOR SURFACE, GROUND FLUSH AND FILLED WITH GROUT. FINISH FLOOR TO MATCH EXISTING.
G. WORK SHALL BE PERFORMED WITH NO DISRUPTION OF THE OWNER'S BUSINESS. ALL ELECTRICAL POWER DISRUPTIONS SHALL BE SCHEDULED AND APPROVED BY THE OWNER.
H. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH NEC, STATE AND LOCAL BUILDING CODE.
I. ALL DASHED ITEMS ON DEMOLITION PLANS ARE TO BE REMOVED UNLESS NOTED OTHERWISE. SOLID ITEMS ARE TO REMAIN OR TO BE RELOCATED AS NOTED. NOTE - ITEMS SHOWN IN THE DEMOLITION PLANS ARE BASED ON FIELD OBSERVATIONS. ADDITIONAL ELECTRICAL ITEMS MAY BE ENCOUNTERED THAT ARE NOT SHOWN - ALL GENERAL ELECTRICAL ITEMS ARE TO BE REMOVED THAT ARE NOT SHOWN, BUT ARE IN AREAS OF COMPLETE REMODEL.
J. HATCH DENOTES AREAS OUTSIDE OF THE SCOPE OF WORK. ALL EXISTING ELECTRICAL EQUIPMENT, DEVICES, LUMINAIRES, ETC. IN THESE AREAS ARE EXISTING TO REMAIN, UNLESS NOTED OTHERWISE.

1 E016 ELECTRICAL DEMOLITION PLAN - SIXTH FLOOR
1/8" = 1'-0"

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06.20.2024
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DRAWN BY | STOCKWEATHER
REVIEWED BY | MAEHL
REVISIONS

ELECTRICAL DEMOLITION PLANS - SIXTH FLOOR

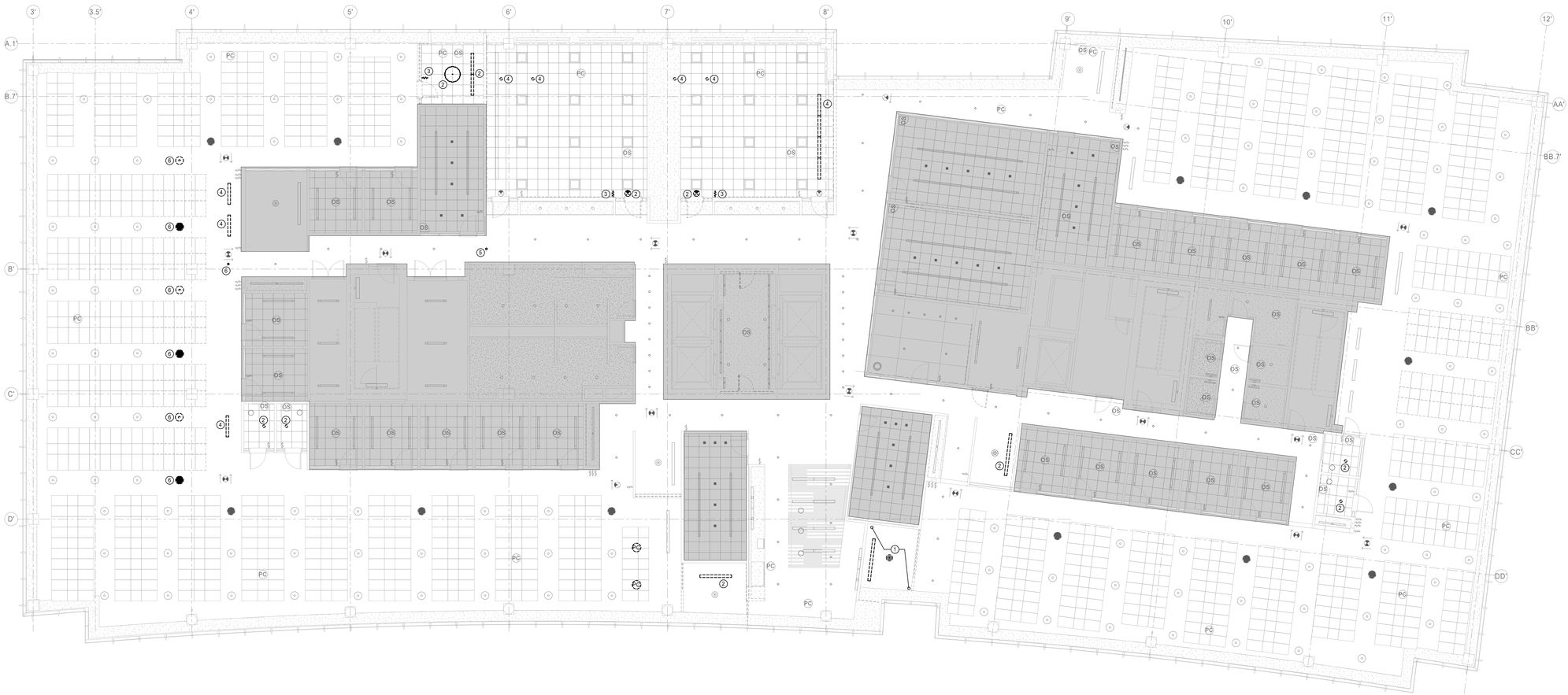
E016

② KEYNOTES

1. REMOVE ALL LIGHTING FIXTURES WITHIN THE ENCLOSED SPACE, ASSOCIATED CONTROLS TO BE REMOVED IF ALL LIGHT FIXTURES WITHIN THE CONTROL ZONE ARE DEMOLISHED. LIGHTING CIRCUIT TO REMAIN IN VICINITY FOR REUSE.
2. LIGHTING FIXTURE TO BE REMOVED, ASSOCIATED CONTROLS TO REMAIN. RETAIN LIGHTING CIRCUIT IF FIXTURES ARE TO BE REPLACED, REFER TO NEW WORK PLANS.
3. REMOVE WIRELESS LIGHTING CONTROL DEVICE.
4. LIGHTING FIXTURE TO BE REMOVED, ASSOCIATED CONTROLS TO BE REMOVED IF ALL LIGHT FIXTURES WITHIN THE CONTROL ZONE ARE DEMOLISHED. RETAIN LIGHTING CIRCUIT IF FIXTURES ARE TO BE REPLACED, REFER TO NEW WORK PLANS.
5. REMOVE OUT-OF-SERVICE LIGHT FIXTURE, LIGHTING CIRCUIT TO REMAIN FOR RECONNECTION TO REPLACEMENT FIXTURE, REFER TO NEW WORK PLANS. CONTRACTOR IS RESPONSIBLE TO REPLACE ALL OUT-OF-SERVICE CORRIDOR LIGHTING FIXTURES.
6. LIGHT FIXTURE IS TO BE RELOCATED, LIGHTING CIRCUIT TO REMAIN FOR RECONNECTION AT THE NEW LOCATION. REFER TO NEW WORK PLANS FOR THE NEW LOCATION.

GENERAL DEMOLITION NOTES

A. ELECTRICAL WORK IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. PATCHING AND PAINTING IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
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1 E025 LIGHTING DEMOLITION PLAN - FIFTH FLOOR
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LIGHTING DEMOLITION PLANS - FIFTH FLOOR

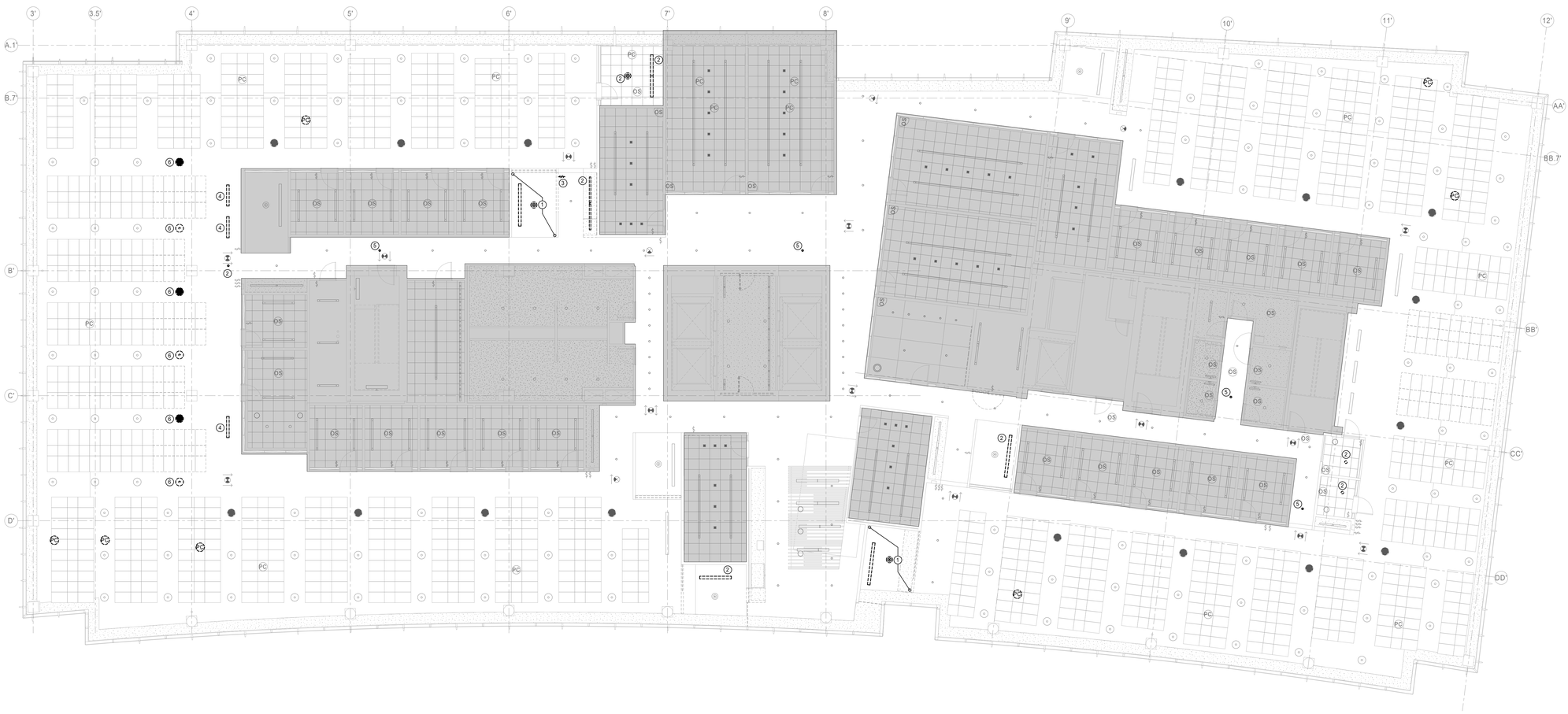
E025

② KEYNOTES

1. REMOVE ALL LIGHTING FIXTURES WITHIN THE ENCLOSED SPACE, ASSOCIATED CONTROLS TO BE REMOVED IF ALL LIGHT FIXTURES WITHIN THE CONTROL ZONE ARE DEMOLISHED. LIGHTING CIRCUIT TO REMAIN IN VICINITY FOR REUSE.
2. LIGHTING FIXTURE TO BE REMOVED, ASSOCIATED CONTROLS TO REMAIN. RETAIN LIGHTING CIRCUIT IF FIXTURES ARE TO BE REPLACED, REFER TO NEW WORK PLANS.
3. REMOVE WIRELESS LIGHTING CONTROL DEVICE.
4. LIGHTING FIXTURE TO BE REMOVED, ASSOCIATED CONTROLS TO BE REMOVED IF ALL LIGHT FIXTURES WITHIN THE CONTROL ZONE ARE DEMOLISHED. RETAIN LIGHTING CIRCUIT IF FIXTURES ARE TO BE REPLACED, REFER TO NEW WORK PLANS.
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J. HATCH DENOTES AREAS OUTSIDE OF THE SCOPE OF WORK. ALL EXISTING ELECTRICAL EQUIPMENT, DEVICES, LUMINAIRES, ETC. IN THESE AREAS ARE EXISTING TO REMAIN, UNLESS NOTED OTHERWISE.



1 E026 LIGHTING DEMOLITION PLAN - SIXTH FLOOR
1/8" = 1'-0"

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LIGHTING DEMOLITION PLANS - SIXTH FLOOR

E026

KEYNOTES

1. RELOCATED CYLINDER DOWNLIGHT. RECONNECT FIXTURE TO THE EXISTING LIGHTING CIRCUIT AND CONTROL DEVICES. REFER TO THE ASSOCIATED DEMOLITION PLAN FOR PREVIOUS LOCATION.
2. RELOCATED DIRECT/INDIRECT CIRCULAR PENDANT. RECONNECT FIXTURE TO THE EXISTING LIGHTING CIRCUIT AND CONTROL DEVICES. REFER TO THE ASSOCIATED DEMOLITION PLAN FOR PREVIOUS LOCATION.
3. CONNECT NEW LIGHT FIXTURE TO EXISTING LIGHTING CIRCUIT MADE AVAILABLE BY DEMOLITION. IF PRESENT, CONNECT TO EXISTING WIRELESS CONTROLS IN THE SPACE.
4. CONNECT NEW EXIT LIGHT TO EXISTING UNSWITCHED EMERGENCY CIRCUIT IN THE VICINITY.
5. PROVIDE NEW LIGHTING CONTROL DEVICES. REPROGRAM EXISTING FIXTURES WITHIN THE SPACE AS REQUIRED.
6. PROVIDE CYLINDER PENDANT FOR REPLACEMENT OF OUT-OF-SERVICE FIXTURE. RECONNECT TO EXISTING LIGHTING CIRCUIT AND CONTROLS. CONTRACTOR IS RESPONSIBLE TO SURVEY THE SITE AND REPLACE ALL FIXTURES THAT ARE NOT FUNCTIONING WHICH MAY NOT BE SHOWN ON THIS PLAN.
7. ADJUST HEIGHT OF PENDANT WITH GENERAL CONTRACTOR AND OWNER ONCE EQUIPMENT IS INSTALLED IN THE SPACE.
8. CONNECT LIGHTING FIXTURE WITHIN THE DASHED AREA TO THE ADJACENT OPEN OFFICE LIGHTING CIRCUIT.
9. CONNECT BODINE ELI-S-250 MINI-INVERTER, OR EQUAL, TO THE EXISTING LIGHTING FIXTURES WITHIN IDF ROOM TO PROVIDE EMERGENCY POWER. REFER TO MANUFACTURER INSTALLATION INSTRUCTIONS FOR WIRING DETAILS.

GENERAL NOTES

A. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE: ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL EQUIPMENT AND DEVICE LOCATIONS WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DIVISIONS PRIOR TO ROUGH-IN. REFER TO AND COORDINATE WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL WORK THAT IS REQUIRED BY THE ELECTRICAL CONTRACTOR.

B. ALL CONDUIT AND JUNCTION BOXES IN FINISHED AREAS ARE TO BE CONCEALED IN WALLS, FUR OUTS, AND CEILINGS. ANY USE OF SURFACE MOUNTED RACEWAY IN FINISHED AREAS MUST BE APPROVED BY THE ARCHITECT. WHERE APPROVED, UTILIZE WIREMOLD OR APPROVED EQUAL SURFACE MOUNTED RACEWAYS PAINTED TO MATCH SURROUNDING WALLS.

C. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL EQUIPMENT AND DEVICE LOCATIONS WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DIVISIONS PRIOR TO ROUGH-IN. REFER TO AND COORDINATE WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL WORK THAT IS REQUIRED BY THE CONTRACTOR.

D. WHERE NEW DEVICES ARE SHOWN FOR INSTALLATION ON EXISTING WALLS, ELECTRICAL CONTRACTOR IS RESPONSIBLE TO COORDINATE CUTTING, PATCHING, AND REPAIR OF EXISTING WALL WITH OTHER TRADES AS REQUIRED TO PROVIDE FLUSH MOUNTED INSTALLATION.

E. PROVIDE RACEWAYS AND CONDUCTORS AS REQUIRED TO CONNECT ALL DEVICES AND EQUIPMENT TO CIRCUIT SHOWN ON PLANS.

F. LIGHTING CONTROLS MANUFACTURER SHALL PROVIDE SHOP DRAWINGS INDICATING ALL REQUIRED CONNECTIONS FOR RESPECTIVE MANUFACTURER'S SYSTEM. PROVIDE ALL LIGHTING CONTROLS CONNECTIONS IN ACCORDANCE WITH MANUFACTURER'S SHOP DRAWINGS. DEVICES SHALL BE PROGRAMMED IN ACCORDANCE WITH WASHINGTON STATE ENERGY CODE.

REVISED
03/05/2025

3'
3.5'
4'
5'
6'
7'
8'
9'
10'
11'
12'
A.1'
B.7'
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AA'
BB.7'
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CC'
DD'
OPEN OFFICE 845
PHONE 846
PHONE 847
OPEN OFFICE 848
PHONE 849
PHONE 850
COLLAB 842
HUDDLE 843
HUDDLE 844
STORAGE 838
STAIR 3002
STORAGE 839
MEN'S WC 840
MEN'S WC 841
HUDDLE 835
HUDDLE 836
HUDDLE 837
PHONE 833
PHONE 834
OPEN OFFICE 835
HUDDLE 832
MEDIUM 3000
LOUNGE 831
CIRCULATION 3020
ELEVATOR LOBBY 801
WOMEN'S WC 802
MEN'S WC 803
CIRCULATION 3023
CIRCULATION 3022
CIRCULATION 3021
CIRCULATION 3024
CONFERENCE 830
MEDIUM 3001
MEDIUM 3002
MASSAGE 826
HUDDLE 827
HUDDLE 828
HUDDLE 829
CIRCULATION 3025
CIRCULATION 3026
LARGE 3003
LIBRARY 805
ELECTRICAL 804
ELECTRICAL 803
LARGE 3004
MEDIUM 3005
HUDDLE 810
HUDDLE 811
HUDDLE 812
HUDDLE 813
HUDDLE 814
HUDDLE 815
HUDDLE 816
HUDDLE 817
JANITOR'S 807
LACTATION 3006
CIRCULATION 3027
STAIR 3003
CIRCULATION 3028
CIRCULATION 3029
OPEN OFFICE 806
WALK STATION 807
CIRCULATION 3030
COLLAB 818
PHONE 819
PHONE 820
PHONE 821
PHONE 822
PHONE 823
PHONE 824
OPEN OFFICE 825
OPEN OFFICE 808
OPEN OFFICE 809
HUDDLE 818
HUDDLE 819
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HUDDLE 836
HUDDLE 837
HUDDLE

SUPERSEDED

Emergency Egress Lighting shall be installed at an illumination level not less than 1 foot-candle at the walking surface.

Daylight Responsive Controls shall be installed per WSEC C405.2.4, C405.2.4.1 & C405.2.4.1.1.

Occupancy Sensor Controls shall be installed per WSEC C405.2.4.1

KEYNOTES

1. RELOCATED CYLINDER DOWNLIGHT. RECONNECT FIXTURE TO THE EXISTING LIGHTING CIRUCIT AND CONTROL DEVICES. REFER TO THE ASSOCIATED DEMOLITION PLAN FOR PREVIOUS LOCATION.
2. RELOCATED DIRECT/INDIRECT CIRCULAR PENDANT. RECONNECT FIXTURE TO THE EXISTING LIGHTING CIRUCIT AND CONTROL DEVICES. REFER TO THE ASSOCIATED DEMOLITION PLAN FOR PREVIOUS LOCATION.
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6. PROVIDE CYLINDER PENDANT FOR REPLACEMENT OF OUT-OF-SERVICE FIXTURE, RECONNECT TO EXISTING LIGHTING CIRCUIT AND CONTROLS. CONTRACTOR IS RESPONSIBLE TO SURVEY THE SITE AND REPLACE ALL FIXTURES THAT ARE NOT FUNCTIONING WHICH MAY NOT BE SHOWN ON THIS PLAN.
7. ADJUST HEIGHT OF PENDANT WITH GENERAL CONTRACTOR AND OWNER ONCE EQUIPMENT IS INSTALLED IN THE SPACE.
8. CONNECT LIGHTING FIXTURE WITHIN THE DASHED AREA TO THE ADJACENT OPEN OFFICE LIGHTING CIRCUIT.

GENERAL NOTES

A. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE: ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL EQUIPMENT AND DEVICE LOCATIONS WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DIVISIONS PRIOR TO ROUGH-IN. REFER TO AND COORDINATE WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL WORK THAT IS REQUIRED BY THE ELECTRICAL CONTRACTOR.

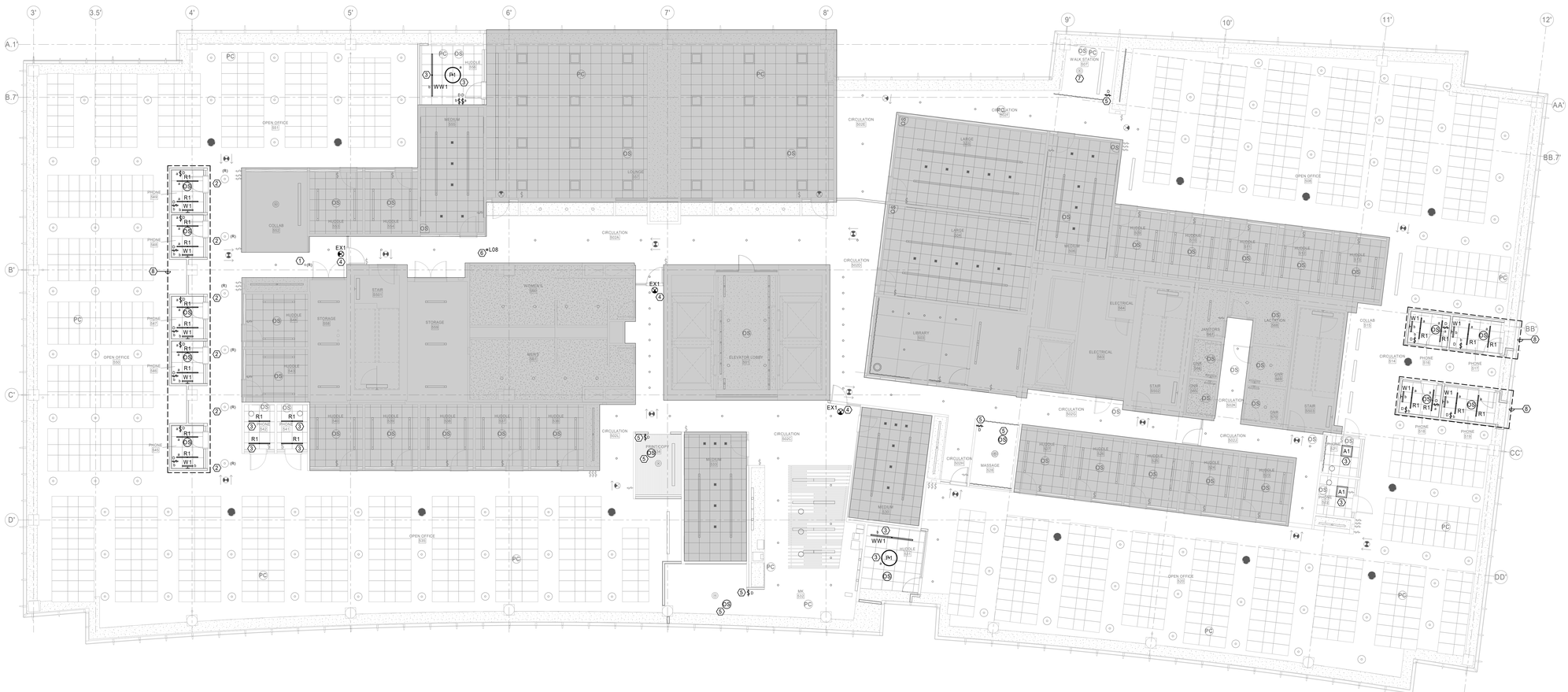
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F. LIGHTING CONTROLS MANUFACTURER SHALL PROVIDE SHOP DRAWINGS INDICATING ALL REQUIRED CONNECTIONS FOR RESPECTIVE MANUFACTURER'S SYSTEM. PROVIDE ALL LIGHTING CONTROLS CONNECTIONS IN ACCORDANCE WITH MANUFACTURER'S SHOP DRAWINGS. DEVICES SHALL BE PROGRAMMED IN ACCORDANCE WITH WASHINGTON STATE ENERGY CODE.



1 E205 LIGHTING PLAN - FIFTH FLOOR
1/8" = 1'-0"

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LIGHTING PLANS - FIFTH FLOOR

E205

KEYNOTES

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E. PROVIDE RACEWAYS AND CONDUCTORS AS REQUIRED TO CONNECT ALL DEVICES AND EQUIPMENT TO CIRCUIT SHOWN ON PLANS.

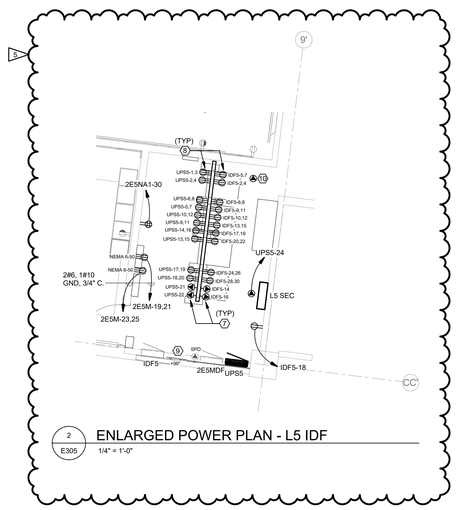
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Daylight Responsive Controls shall be installed per WSEC C405.2.4, C405.2.4.1 & C405.2.4.1.1.

Occupancy Sensor Controls shall be installed per WSEC C405.2.4.1





2 E305 ENLARGED POWER PLAN - L5 IDF

1/4" = 1'-0"

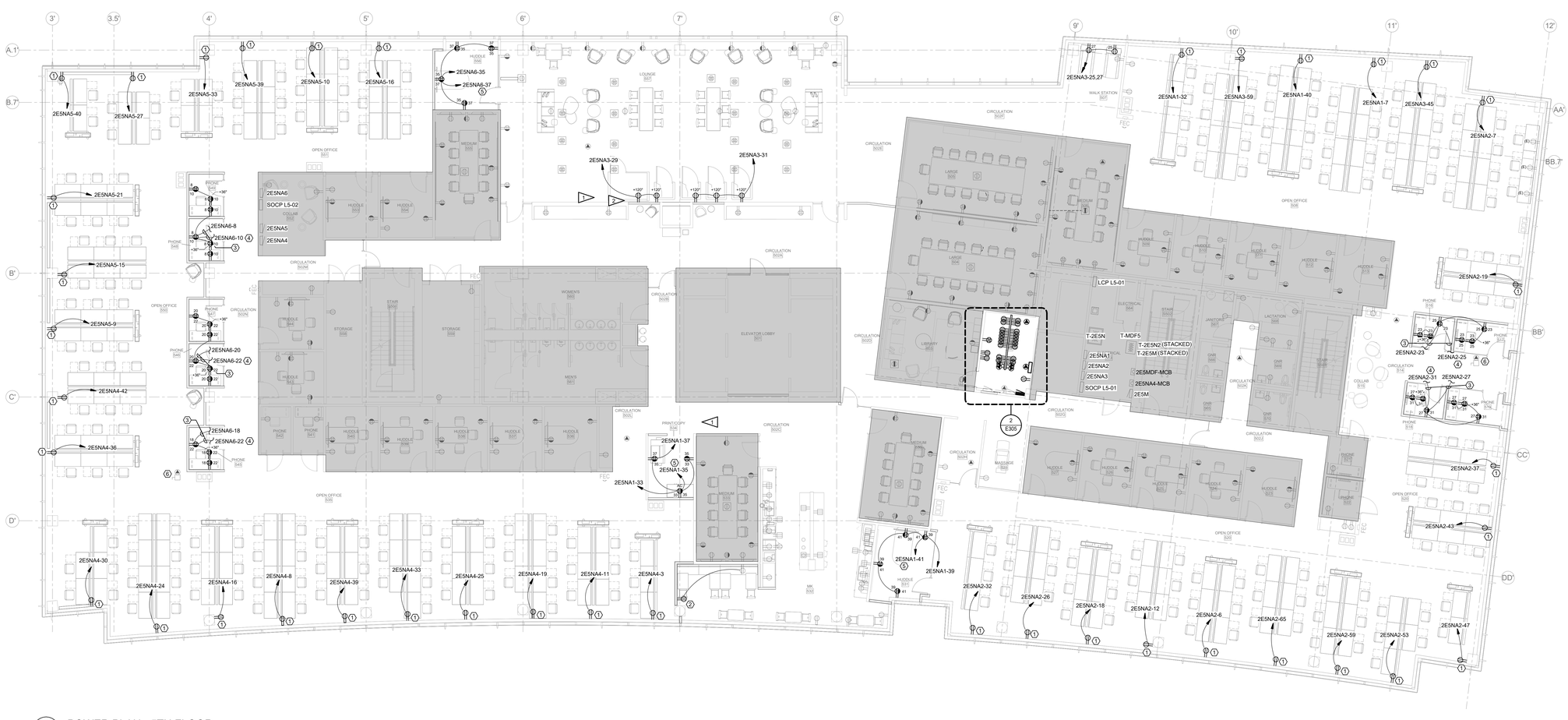
REVISED
03/05/2025

KEYNOTES

2
1. CONNECT RECEPTACLE TO THE EXISTING FURNITURE CIRCUIT LOCATED IN THE JUNCTION BOX. CIRCUIT IS ROUTED THROUGH "SWITCHED OUTLET CONTROL PANEL" (SOCP) FOR AUTOMATIC SHUTOFF PER WSEC. RECEPTACLES AT WORKSTATIONS ARE FOR REFERENCE ONLY. WORKSTATION CONNECTION AND DEVICES ARE BY OTHERS.
2. INTERCEPT AND EXTEND EXISTING CIRCUIT TO NEW RECEPTACLE.
3. INTERCEPT AND EXTEND EXISTING CIRCUIT MADE AVAILABLE BY DEMOLITION TO NEW DEVICES. REFER TO ASSOCIATED DEMOLITION PLANS.
4. EXISTING CIRCUIT ROUTED THROUGH "SWITCHED OUTLET CONTROL PANEL" (SOCP) FOR AUTOMATIC SHUTOFF PER WSEC.
5. ROUTE NEW CIRCUIT THROUGH "SWITCHED OUTLET CONTROL PANEL" (SOCP) FOR AUTOMATIC SHUTOFF PER WSEC.
6. RECONNECT MECHANICAL UNIT TO EXISTING CIRCUIT MADE AVAILABLE BY DEMOLITION. REFER TO DEMO PLANS AND MECHANICAL PLANS.
7. L5-20 RECEPTACLE INSTALLED ON 3"x6" METALIC SURFACE ELECTRICAL RACEWAY, MOUNTED TO LADDER RACK. OUTLETS ARE TO FACE RACK REAR.
8. L6-20 RECEPTACLE INSTALLED ON 3"x6" METALIC SURFACE ELECTRICAL RACEWAY, MOUNTED TO LADDER RACK. OUTLETS ARE TO FACE RACK REAR.
9. RELOCATE EXISTING GROUND BUS BAR TO THIS LOCATION.
10. 16 KVA, 208V, 1-PHASE RACK MOUNTED UPS FED FROM PANEL IDF5 TO POWER PANEL UPSS. REFER TO ONE-LINE DIAGRAM FOR MORE INFORMATION.

GENERAL NOTES

A. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE: ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL EQUIPMENT AND DEVICE LOCATIONS WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DIVISIONS PRIOR TO ROUGH-IN. REFER TO AND COORDINATE WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL WORK THAT IS REQUIRED BY THE ELECTRICAL CONTRACTOR.
B. ALL CONDUIT AND JUNCTION BOXES IN FINISHED AREAS ARE TO BE CONCEALED IN WALLS, FUR OUTS, AND CEILINGS. ANY USE OF SURFACE MOUNTED RACEWAY IN FINISHED AREAS MUST BE APPROVED BY THE ARCHITECT. WHERE APPROVED, UTILIZE WIREMOLD OR APPROVED EQUAL SURFACE MOUNTED RACEWAYS PAINTED TO MATCH SURROUNDING WALLS.
C. REFER TO ARCHITECTURAL ELEVATIONS FOR OUTLET HEIGHTS WHERE THE SPECIFIC OUTLET HEIGHT IS NOT INDICATED ON THIS SHEET. REFER TO THE ELECTRICAL LEGEND FOR THE DEFAULT OUTLET HEIGHT WHEN NOT INDICATED ON ELEVATIONS OR ON THIS SHEET.
D. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL EQUIPMENT AND DEVICE LOCATIONS WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DIVISIONS PRIOR TO ROUGH-IN. REFER TO AND COORDINATE WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL WORK THAT IS REQUIRED BY THE CONTRACTOR.
E. WHERE NEW DEVICES ARE SHOWN FOR INSTALLATION ON EXISTING WALLS, ELECTRICAL CONTRACTOR IS RESPONSIBLE TO COORDINATE CUTTING, PATCHING, AND REPAIR OF EXISTING WALL WITH OTHER TRADES AS REQUIRED TO PROVIDE FLUSH MOUNTED INSTALLATION.
F. ALL MULTI-WIRE BRANCH CIRCUITS SHALL BE PROVIDED WITH SEPARATE NEUTRAL CONDUCTORS. LABEL NEUTRAL CONDUCTORS WITH RESPECTIVE CIRCUIT AT ALL PULL BOXES, JUNCTION BOXES, TERMINATIONS, ETC.
G. PROVIDE RACEWAYS AND CONDUCTORS AS REQUIRED TO CONNECT ALL DEVICES AND EQUIPMENT TO CIRCUIT SHOWN ON PLANS.
H. FOR ALL NEW AND RELOCATED THERMOSTATS IN CONCEALED WALLS, PROVIDE RING-AND-STRING TO ABOVE ACCESSIBLE CEILING. FOR NEW AND RELOCATED THERMOSTATS ON EXPOSED WALLS AND COLUMNS, PROVIDE A BOX AND CONDUIT TO THE ASSOCIATED MECHANICAL UNIT. REFER TO MECHANICAL PLANS FOR DEVICES AND MORE INFORMATION.
I. FIELD COORDINATE THE INSTALLATION OF ALL LIGHT FIXTURES WITH DUCTWORK, PIPING, AND EQUIPMENT FROM OTHER DISCIPLES. MOUNT LIGHT FIXTURES TO A UNISTRUT FRAME INSTALLED BELOW THE CONFLICTING EQUIPMENT.



1 E305 POWER PLAN - 5TH FLOOR

1/8" = 1'-0"

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ISSUE FOR CONSTRUCTION

07.19.2024
PROJ# | GOGL_KUN
DESIGNED BY | HESTAND
DRAWN BY | STOCKWEATHER
REVIEWED BY | MAEHL

REVISIONS
1 09.06.2024 ADDENDUM #1
2 11.15.2024 ADDENDUM #2
3 12.20.2024 ASI #1
5 03.04.2025 ASI #2

3 POWER PLANS - FIFTH FLOOR

E305

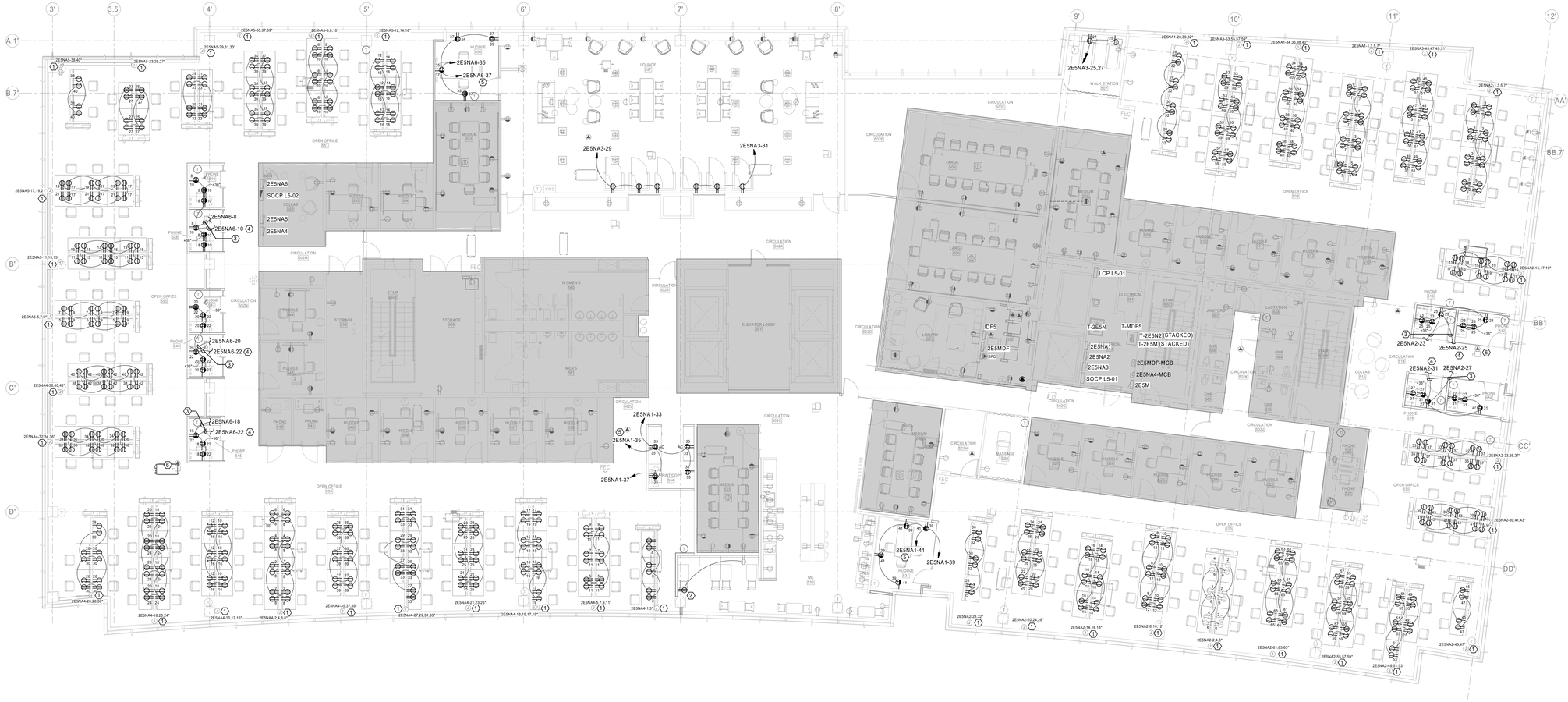
KEYNOTES

1. EXTEND EXISTING CIRCUITS FROM JUNCTION BOX TO NEW WORKSTATIONS AND CONNECT WORKSTATION RECEPTACLES AS SHOWN. ASTERISK INDICATES CIRCUIT IS ROUTED THROUGH "SWITCHED OUTLET CONTROL PANEL" (SOCP) FOR AUTOMATIC SHUTOFF PER WSEC.
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B. ALL CONDUIT AND JUNCTION BOXES IN FINISHED AREAS ARE TO BE CONCEALED IN WALLS, FUR OUTS, AND CEILINGS. ANY USE OF SURFACE MOUNTED RACEWAY IN FINISHED AREAS MUST BE APPROVED BY THE ARCHITECT. WHERE APPROVED, UTILIZE WIREMOLD OR APPROVED EQUAL SURFACE MOUNTED RACEWAYS PAINTED TO MATCH SURROUNDING WALLS.
C. REFER TO ARCHITECTURAL ELEVATIONS FOR OUTLET HEIGHTS WHERE THE SPECIFIC OUTLET HEIGHT IS NOT INDICATED ON THIS SHEET. REFER TO THE ELECTRICAL LEGEND FOR THE DEFAULT OUTLET HEIGHT WHEN NOT INDICATED ON ELEVATIONS OR ON THIS SHEET.
D. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL EQUIPMENT AND DEVICE LOCATIONS WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DIVISIONS PRIOR TO ROUGH-IN. REFER TO AND COORDINATE WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL WORK THAT IS REQUIRED BY THE CONTRACTOR.
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F. ALL MULTI-WIRE BRANCH CIRCUITS SHALL BE PROVIDED WITH SEPARATE NEUTRAL CONDUCTORS. LABEL NEUTRAL CONDUCTORS WITH RESPECTIVE CIRCUIT AT ALL PULL BOXES, JUNCTION BOXES, TERMINATIONS, ETC.
G. PROVIDE RACEWAYS AND CONDUCTORS AS REQUIRED TO CONNECT ALL DEVICES AND EQUIPMENT TO CIRCUIT SHOWN ON PLANS.
H. FOR ALL NEW AND RELOCATED THERMOSTATS, PROVIDE A BOX AND CONDUIT TO THE ASSOCIATED MECHANICAL UNIT. REFER TO MECHANICAL PLANS FOR DEVICES AND MORE INFORMATION.

SUPERSEDED



1 E305 POWER PLAN - 5TH FLOOR
1/8" = 1'-0"

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06.20.2024
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DRAWN BY | STOCKWEATHER
REVIEWED BY | MAEHL
REVISIONS

POWER PLANS - FIFTH FLOOR

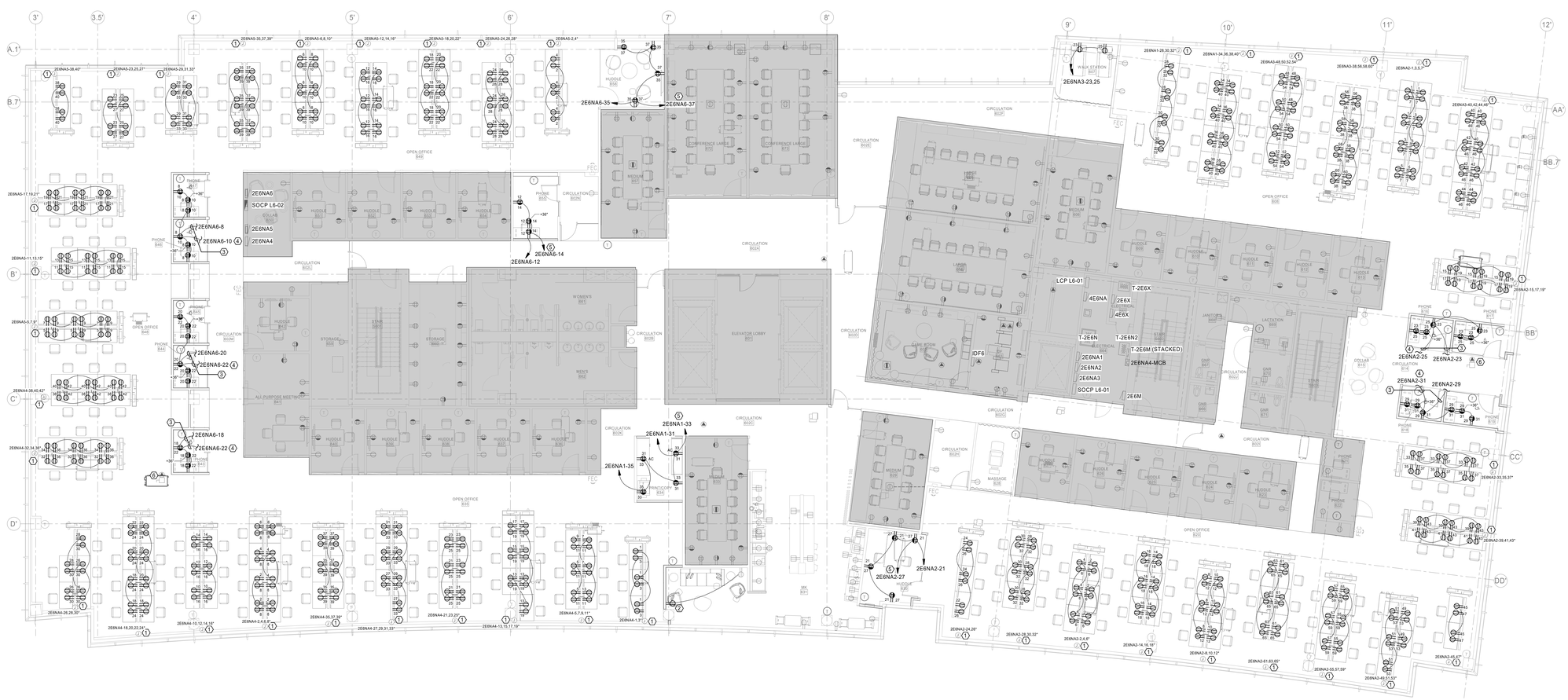
E305

C405.10 Controlled receptacles.
At least 50 percent of all 125-volt 15- and 20-ampere receptacles installed in private offices, open offices, conference rooms, rooms used primarily for printing and/or copying functions, break rooms, individual workstations and classrooms, including those installed in modular partitions and modular office workstation systems, shall be controlled as required by this section. In rooms larger than 200 square feet (19 m2), a controlled receptacle shall be located within 72 inches (1.8 m) of each uncontrolled receptacle. Controlled receptacles shall be visibly differentiated from standard receptacles and shall be controlled by one of the following automatic control devices:

1.An occupant sensor that turns receptacle power off when no occupants have been detected for a maximum of 20 minutes.

2.A time-of-day operated control device that turns receptacle power off at specific programmed times and can be programmed separately for each day of the week. The control device shall be configured to provide an independent schedule for each portion of the building not to exceed 5,000 square feet (465 m2) and not to exceed one full floor. The device shall be capable of being overridden for periods of up to two hours by a timer in a location with access to occupants. Any individual override switch shall control the controlled receptacles for a maximum area of 5,000 square feet (465 m2). Override switches for controlled receptacles are permitted to control the lighting within the same area.

Exception: Receptacles designated for specific equipment requiring 24-hour operation, for building maintenance functions, or for specific safety or security equipment are not required to be controlled by an automatic control device and are not required to be located within 72 inches (1829 mm) of a controlled receptacle.



1 POWER PLAN - 6TH FLOOR
E306 1/8" = 1'-0"

KEYNOTES

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06.20.2024
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DRAWN BY | STOCKWEATHER
REVIEWED BY | MAEHL
REVISIONS

POWER PLANS - SIXTH FLOOR

E306

ELECTRICAL SPECIFICATIONS

DIVISION 26 - ELECTRICAL

SCOPE

The provisions, terms and requirements of Division 1 and 2, the applicable Drawings and Technical Specifications herein shall apply to work under this Division.

This Work consists of, but is not necessarily limited to, the furnishing of all labor, equipment, appliances and materials and the performance of all operations in connection with the installation of all electrical work completed, in strict accordance with Specifications and/or Drawings, applicable codes, including incidental materials necessary and required for their completion.

"PROVIDE" = Furnished and installed complete. "OR EQUAL" = Or equal as approved to quote by Engineer, 10 days prior to Bid via addendum.

260000 - COMMON WORK RESULTS

A. Intent of Drawings: Drawings are partly diagrammatic and do not show exact location of conduit unless specifically dimensioned.

B. Workmanship:
1. Work shall be accomplished by workmen skilled in particular trade, in conformance with best practices and accepted standards.
2. Work shall contribute to efficiency of operation, accessibility, maintenance and appearance. No part of installation shall interfere with operation of any other system or part of building.
3. Non-satisfactory work shall be corrected at no additional expense to Owner.

C. Responsibility:
1. The Electrical Contractor is responsible for installation of satisfactory and complete work in accordance with the intent of Drawings and Specifications. Provide, at no extra cost, incidental items required for completion of work even though not specifically mentioned or indicated in Specifications or on Drawings.
2. If, at any time, and in any case, change in location of conduit, outlets, fixtures, switches, panels, electrical equipment or associated components, etc., becomes necessary due to obstacles or installation of other trades, such required changes shall be made by Contractor at no extra cost.
3. Conflicts discovered during construction shall be immediately called to the attention of the Engineer for decision. Do not proceed with installation in area of question until conflict has been fully resolved.
4. Coordinate all electrical work with other trades to prevent unnecessary delays in the construction schedule.
5. Excavation and backfill required by electrical installations shall be accomplished in accordance with Division 2 by this Contractor.
6. Provide temporary electrical power and lighting for all trades that require service during the course of this Project. Provide temporary service and distribution as required. Comply with the NFPA 70 and OSHA requirements. (Energy costs by General Contractor.)

D. Guarantee-Warranty: This Contractor shall and hereby does warrant and guarantee:
1. That all work executed under this Section will be free from defects of materials and workmanship for a period of one year from the date of final acceptance of this work.
2. The Contractor agrees to, at the Contractor's own expense, repair and replace all such defective materials and work and all other work damaged thereby which becomes defective during the term of warranty. Agreement does not include damages done by Owner.

E. Permits, Tests, Codes and Standards:
1. Electrical Contractor to pay for all permits and fees in connection with this work.
2. WORK SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITIONS OF ADOPTED LOCAL, STATE AND NATIONAL CODES AND ORDINANCES, THE STATE FIRE MARSHAL, AND UTILITY COMPANY REGULATIONS.
3. Electrical work shall conform to National Electrical Codes, latest editions, as a minimum requirement.
4. All material to conform with applicable standards.

F. Discrepancies: Prior to submitting Bid, Contractor shall refer any apparent discrepancies or omissions to engineer for clarification.

G. Prior Approvals: All proposed substitutions shall be received by the Engineer **10 days prior to Bid. Priors received after 3 p.m. of the 10th day will be rejected**. Supply technical data, photometrics and dimensional Drawings showing that substitutes are equal to product specified.

H. Shop Drawing Submittals:
1. In addition to distribution requirements for submittals specified in Division 1 Section "Submittals," submit Electronic Drawings in pdf format for final and official approval through the General Contractor as listed below. **Provide pdf bookmark tabs for each type and section.** Provide separate pdf for each spec section; do not combine sections together unless they are 5 pages or less. If the Authority Having Jurisdiction requires Shop Drawings to have a Registered Engineers Stamp Affixed, this shall be the sole responsibility of the Contractor to acquire such stamp at Contractor's cost.

   Additional copies may be required by individual Sections of these Specifications. Copies of price list sheets are not acceptable. Manufacturer's name and address must appear on each sheet. All copies shall be legible.

   Shop Drawings shall include a completed specification sheet of all equipment along with fabrication, installation drawings, setting diagrams, schedules, patterns, templates and similar Drawings. Installation drawings for fire alarm shall be done with a computer cadd program and include no other system. A basic floor plan in pdf electronic format can be obtained through the General Contractor. Autocad .dwg format will not be available.

I. Project Close-Out Record Documents:
1. Provide three full size sets, unless more are called for under Division 1 (one for Engineer and one for Owner). In addition to requirements called for under Division 1, indicate the following installed conditions:
   a. Actual location of all electrical service gear/feeders, panel/motor/special equipment feeders, all major underground or underslab conduits, all conduit stubs for future use, any change in branch circuitry from Drawings, key junction boxes and pull boxes not indicated on Drawings, any control locations or indicator lights not shown on Drawings.
   b. Addendum items, change order items and all changes made to Drawings from Bidding phase through to Project completion.
   c. Actual equipment and materials installed. Where manufacturer and catalog number are indicated on Drawings, generally or in fixture or equipment schedules, change to reflect actual products installed.
   d. Change service panel and branch panel breaker locations and schedules to reflect actual installed conditions.

J. Project Close-out Maintenance Manuals:
1. Prepare 3 copies, unless more are called for under Division 1 (one for Engineer, two for Owner). In addition to requirements under Division 1, provide heavy duty, durable 3-ring vinyl covered loose-leaf binder for each manual sized to receive 8.5 inch by 11 inch paper. Provide a clear plastic sleeve on the spine to hold labels and pockets in the cover to receive folded sheets. In manual, include all Shop Drawings, installation/operation/maintenance data furnished with electrical equipment, voice/data test reports, and letters from manufacturer's representatives that the fire alarm, has been completed and tested to satisfy requirements/codes. List project name, date, and Contractor's name, address and telephone number. Include index sheet for each Specification Section indicating equipment, with supplier and supplier's telephone number. Provide tabbed dividers indicating major groupings of equipment.
2. Turn over to Owner all spare equipment and devices specified and shown.

K. Supporting Equipment:
1. Unless otherwise indicated, fasten electrical items and their supporting hardware securely to the building structure, including conduits, raceways, cables, cable trays, busways, cabinets, panelboards, transformers, boxes, disconnect switches, and control components. Fasten by means of wood screws or screw-type nails on wood, toggle bolts on hollow masonry units, concrete inserts or expansion bolts on concrete or solid masonry, and machine screws, welded threaded studs, or spring-tension clamps on steel. Threaded studs driven by a power charge and provided with lock washers and nuts may be used instead of expansion bolts and machine or wood screws. Do not weld conduit, pipe straps, or items other than threaded studs to steel structures. In partitions of light steel construction, use sheet metal screws. All device boxes in sheetrock walls will be tight before, during and after installation of sheetrock.
2. Provide supports for electrical items in accordance with NFPA 70 and all other applicable codes.
3. Contractor responsible for providing watertight conduit penetrations at all watertight walls, floors roofs and membranes. Contractor also responsible to maintain fire rating of walls, floors, roofs and membranes penetrated.
4. When applicable, center within insulation any electrical conduit routed in attic space. Provide sealing as per NFPA 70 300-7 for all conduits exposed to different temperatures.

L. Electrical Identification:
1. Apply circuit/control/item designation labels of engraved plastic laminate for disconnect switches, breakers, pushbuttons, pilot lights, FA duct detection, motor starters, panelboards and main control panel and similar systems.
2. Identify all 120 VAC and 208 VAC power receptacle cover plates with panel and circuit number utilizing a clear label with black designations. Designation example: L1-38.
3. Identify underground exterior electrical circuits by installation of continuous underground plastic marker, 6 - 8 inches below grade.

260300 - REMODEL WORK

A. The Contractor shall carefully examine the Drawings and Specifications, visit the project site, and make note of all existing conditions, dimensions and limitations prior to Bid and make allowances thereto.

B. No Change Orders will be issued for Contractor's failure to visit site, remodel work necessary for a complete installation of systems shown, and due to Contractor's lack of understanding of amount or difficulty of work involved.

C. The Contractor shall also notify all corporations, companies, individuals or local authorities owning, or having jurisdiction over existing utilities and services which interfere in any manner with the execution of the work under this Contract, and shall remove, relocate or protect such utilities or equipment as required by the parties having jurisdiction over same.

D. If existing active or non-active services (which may not be shown on plans) are encountered that require relocation or disconnecting, the Electrical Contractor shall make written request for decision on proper handling of the services. The Electrical Contractor shall not proceed with the work until so authorized by the Architect.

E. When areas of the existing buildings are adjacent to the area of construction in which work is going on and are occupied, then this Contractor shall arrange the work so as to reduce to a minimum the periods of interruption or outages in the various services.

F. Not less than one week before any system is to be put out of service, the Contractor shall notify and coordinate with other trades and the Owner of such necessity including the extent of the work to be done during the outage, possible length of time required for that phase of the work, and the desired time at which the outage is to begin.

260300 - REMODEL WORK (Continued)

G. Balance additional loads to existing circuitry between phases. Furnish a revised, typed panel directory on existing panelboards where loads have been added or changed on this project.

H. Carefully lay out all work in advance to minimize cutting, channeling or drilling. Where necessary, all cutting and patching shall be done in a manner approved by the Architect. Do not endanger the stability of the structure. Restore any damaged surfaces to original conditions. Contractor at fault to assume all costs.

I. Remove or relocate existing conduits, wires, equipment, devices or fixtures indicated on Drawings and as required by remodel operations. Where the reuse of existing conduits, wires, devices, or fixture is permitted, verify that wiring is continuous. Existing outlets or junction boxes shall not be rendered inaccessible by structural changes made to the building.

J. Where existing walls are being furred out or refinished, extend existing outlets and devices to new surface as required.

K. Existing equipment which is indicated as being removed and not indicated for re-use shall be disposed of unless stated otherwise. Light fixture ballasts may contain PCB's and shall be disposed of according to environmental regulations.

260519 - CONDUCTORS AND CABLES

A. Submit Shop Drawings in accordance with the "Common Work Results" Section.

B. Feeders: Copper THHN-THWN. Solid for No. 10 AWG and smaller; stranded for No. 8 AWG and larger.

C. Branch Circuits: Copper THHN-THWN. Solid for No. 10 AWG and smaller; stranded for No. 8 AWG and larger.

D. Multi-conductor Cable: Copper Type AC and Type MC with separate insulated ground wire.
1. **MC and AC cable are not permitted for emergency Life safety and Critical branch circuits or for any homeran circuit.**

E. Aluminum conductors are not acceptable. Aluminum conductors are acceptable for sizes #1 Awg and larger.

F. Conductor Insulation: Comply with NEMA WC 70 for types THHN-THWN. Utilize other types of insulation only where specifically noted or required by code for the installed condition.

G. Tighten electrical connectors and terminals, including screws and bolts, in accordance with manufacturer's published torque tightening valves or as specified in UL Codes.

H. Color code secondary service, feeder, and branch circuit conductors with factory applied color as follows:

208y/120 Volts	Phase	480y/277 Volts
Black	A	Brown
Red	B	Purple
Blue	C	Yellow
White	Neutral	Gray
Green	Ground	Green

260526 - GROUNDING AND BONDING

A. Submit Shop Drawings in accordance with the "Common Work Results" Section.

B. Install separate insulated equipment grounding conductors for feeder and branch circuits in compliance with NFPA 70 Article 250.

C. Provide #6 AWG minimum green insulated copper conductor in raceway from grounding electrode system to each telephone, alarm and communications system's terminal board, cabinet or equipment location.

D. System Ground: Properly bond system neutral to system ground in the main service apparatus. All other neutral busses, bars, etc., must be isolated from ground. Establish the system ground as the grounding bus in main service apparatus by providing the proper ground bus in the main service apparatus and by providing the proper grounding conductor, installed in rigid steel conduit, bonded to the grounding bus and extended to the grounding point where the bond shall be made with the proper combination conduit/cable grounding clamp. Unless prohibited by Local Codes, the grounding point shall be established on the incoming water main, ufer ground and structural steel. Building metallic water piping system must be bonded, as required by codes, to the grounding bus in the main service apparatus. Carefully check the Drawings for additional grounding requirements and comply with NFPA 70 and all other applicable codes/standards.

E. **Grounding Electrode:** Ufer Ground fabricated according to NFPA 70, Paragraph 250-52(A)(3), using a minimum of 20 feet of bare copper conductor not smaller than No. 4 AWG. Bond grounding conductor by Cadweld process to reinforce steel in at least 4 locations and to anchor bolts.

260533 - RACEWAYS AND BOXES

A. Submit Shop Drawings in accordance with the "Common Work Results" section.

B. Conduit Raceway:
1. Indoors, use the following, unless otherwise stated:
   a. Concealed: EMT or MC cable. Utilize MC cable only for device-to-device connections. Homeruns shall be in EMT.
   b. Exposed: EMT, IMC or RMC.
   c. Connection to vibrating equipment: Flexible metal conduit.
2. Outdoors, use the following, unless otherwise stated:
   a. Concealed: RMC or IMC.
   b. Exposed: RMC or IMC.
   c. Underground: Schedule 40 PVC with Schedule 80 PVC fittings.
   d. Connection to Vibrating Equipment: Liquid tight flexible metal conduit.
3. **ENT IS NOT ALLOWED.**
4. Conceal conduit and cable, unless otherwise noted; conduit is permitted to be exposed in equipment rooms. All conduits shall have insulated ground wire installed. Do not install conduit embedded in slabs. EMT fittings shall be steel, compression or set screw type. All raceways shall be installed and supported in accordance with NFPA 70 and applicable codes.

C. Outlet Boxes:
1. Conform to UL 514A, "Metallic Boxes, Electrical," and UL 514B, "Fittings for Conduit and Outlet Boxes." Outlet boxes shall be metallic and installed flush in all areas, except mechanical rooms, above lay-in ceilings, or as otherwise indicated. Minimum size to be 4 inches square by 2-1/8 inches deep. Boxes shall be of type, shape, size and depth to suit each location and application. All fittings shall be steel.

D. Pull and Junction Boxes:
1. Comply with UL 50, "Electrical Cabinets and Boxes," for boxes over 100 cubic inches volume. Boxes shall have screwed or bolt-on covers, shall be suitable for the intended application and shall be labeled.

E. All materials shall be UL listed, appropriate for intended application. Entire raceway system shall be in accordance with NFPA 70, ANSI, NEMA, UL, and all other applicable codes.

260573 – COORDINATION AND ARC FLASH STUDY

A. Submit study as Shop Drawings in accordance with the "Common Work Results" section.

B. The software used shall be SKM Systems Analysis, Inc and shall comply with IEEE 399.

C. Comply with IEEE 242, IEEE 399, 2017 NEC and 2018 NFPA 70E. Comply with ANSI Z535.4 1998 for Arc Flash label designs.

D. Short Circuit Study: Calculate the maximum available short-circuit current in RMS symmetrical amperes for each switchboard, distribution panelboard, branch panelboard, enclosed circuit breaker or switch, bus of each generator and bus of the load side of each UPS. Evaluate the results in comparison to the equipment ratings.

E. Coordination Study: Produce time current curves that show coordination of all overcurrent and ground fault devices (maximum of five devices per time current curve). Adjust overcurrent settings to achieve the maximum amount of coordination and produce settings for the contractor to set each device. Evaluate results in comparison to NEC requirements, state codes and local area codes.

F. Arc Flash Study: Calculate Arc Flash incident energy in joules/second and determine the flash hazard level, flash hazard boundaries, approach boundaries and require PPE. Produce Self Adhesive vinyl arc flash label for each piece of switchgear, switchboard, panelboard, enclosed breaker and enclosed switch.

G. Produce a complete report that includes an introduction, summaries, analysis, full report of the studies noted above, recommended settings for overcurrent devices. Include, in a separate tab, resources used to produce the study including utility primary AIC, utility primary X/R ratios, utility transformer impedance, generator reactance and time constants, overcurrent device information from gear shop drawings, feeder distances/types, motor amperage information and transformer impedances.

260923 – LIGHTING CONTROL DEVICES

A. Submit Shop Drawings in accordance with the "Common Work Results" Section. Shop drawings shall include background floor plans with device layouts and wiring/wire types, and coverages to demonstrate how this system will function to meet the design intent and the energy code.

B. Manufacturer: As scheduled on the drawings.

C. Perform the following tests and inspections:
1. Operational Test: After installing time switches and sensors, and after electrical circuitry has been energized, start units to confirm proper unit operation.
2. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.

D. Occupancy Adjustments: When requested within 12 months from date of Substantial Completion, provide on-site assistance in adjusting lighting control devices to suit actual occupied conditions. Provide up to two visits to Project during other-than-normal occupancy hours for this purpose.
1. For occupancy sensors, verify operation at outer limits of detector range. Set time delay to suit Owner's operations.

E. Provide letter of verification that the system has been completed and successfully tested. Letter to be included in As-Built manuals.

260943 – RELAY-BASED LIGHTING CONTROLS

F. Submit Shop Drawings in accordance with the "Common Work Results" Section. Shop drawings shall include background floor plans with device layouts and wiring/wire types, and coverages to demonstrate how this system will function to meet the design intent and the energy code.

G. Manufacturer: As scheduled on the drawings.

H. Manufacturer's Field Service: Engage a factory-authorized service representative to test and inspect components, assemblies, and equipment installations, including connections.
1. Lighting control panel will be considered defective if it does not pass tests and inspections.
2. Prepare test and inspection reports, including a certified report that identifies lighting control panels and describes scanning results. Include notation of deficiencies detected, remedial action taken, and observations made after remedial action.

I. Engage a factory-authorized service representative to perform startup service.
1. Complete installation and startup checks according to manufacturer's written instructions.
2. Confirm correct communications wiring, initiate communications between panels, and program the lighting control system according to approved configuration schedules, time-of-day schedules, and input override assignments.

J. Occupancy Adjustments: When requested within 12 months from date of Substantial Completion, provide on-site assistance in adjusting system to suit actual occupied conditions. Provide up to two visits to Project during other-than-normal occupancy hours for this purpose.

K. Provide letter of verification that the system has been completed and successfully tested. Letter to be included in As-Built manuals.

L. Technical Support: Beginning at Substantial Completion, service agreement shall include software support for two years.
1. Upgrade Service: At Substantial Completion, update software to latest version. Install and program software upgrades that become available within two years from date of Substantial Completion. Upgrading software shall include operating system and new or revised licenses for using software.
2. Upgrade Notice: At least 30 days to allow Owner to schedule and access the system and to upgrade computer equipment if necessary.

M. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain the control unit and operator interface

262726 - WIRING DEVICES

A. Submit Shop Drawings in accordance with the "Common Work Results" Section.

B. Acceptable Manufacturers: Pass & Seymore, Bryant, GE, Hubbell, Leviton.

C. Devices:
1. General light switches shall be 20 amp, 120/277 volt AC rated and **Industrial Grade**.
2. General receptacles shall be self-grounding 5-20R and Industrial Grade. Hospital Grade receptacles with led light indication shall be used for patient bed, critical care areas, emergency critical and emergency life safety.
   a. GFCI receptacles shall be 20 amp feed through type with two utilization points. Do not connect downstream devices to load side of GFCI.
   b. Controlled receptacles shall be permanently marked with symbol and the word "Controlled" per NFPA 70. Where receptacles are split with half being controlled, the top receptacle shall be marked as the controlled receptacle.
   c. USB receptacles shall have two USB 2.0 compatible 3.6A/5V ports.
   d. Tamper-Resistance receptacles shall comply with NFPA 70 tamper-resistant requirements.
3. Dimmers shall be as scheduled on the construction documents.
4. General device color shall be **white**. Emergency power device color shall be red only.

D. Device Plates:
1. Device plates shall have opening for device intended and shall be **Lexan**. General device color shall be **white**.
2. All device plates shall have a clear label with the panel and circuit number designation in black.

E. Weatherproof receptacle covers shall be a corrosion resistant die cast metal, minimum 3 inch deep, flip cover with latch and with pad locking provisions.

262813 - OVER CURRENT PROTECTION DEVICES

A. Submit Shop Drawings in accordance with the "Common Work Results" Section.

B. Manufacturer: Bussman, Gould, Littlefuse or Brush.

C. Fuses:
1. Motor or combination motor/branch circuit: UL listed RK-5.
2. Feeder Loads: UL listed RK-1.
3. Plug fuses shall be dual element Type S with adapter.

262816 - CIRCUIT AND MOTOR DISCONNECTS

A. Submit Shop Drawings in accordance with the "Common Work Results for Electrical" Section.

B. Manufacturer: Same as panelboard manufacturer.

C. Disconnects shall be heavy duty type with Class R rejection feature when required to be fusible. Voltage rating shall be at or greater than the application voltage. Provide NEMA 3R enclosure for exterior locations. Service switches shall be UL listed for use as service equipment.

265100 - LIGHTING

A. Submit Shop Drawings in accordance with the "Common Work Results" Section.

B. Manufacturer, model, style, color, size, etc., as scheduled. If no color has been selected, provide fixture with the standard finish as published by the manufacturer. All fixtures to be supplied as complete, housing, sockets, lamp holders, internal wiring, wire guards, lens guards, diffusing materials or lenses, pendants, hangers, canopies, aligners, end caps, ballasts and emergency battery packs, plaster frames, recessing boxes, hold down clips, anchor bolts, etc. Install plumb and true, free of light leaks, warps, dents and other irregularities.

C. Support for Recessed and semi-recessed Grid-type Fixtures:
1. All lighting fixtures shall be positively attached to the suspended ceiling system by mechanical means as specified in the National Electric Code, Section 410-36 (b) unless independently supported. The attachment device, a minimum of two per fixture, shall have a capacity of 100 percent of the lighting fixture weight acting in any direction.
2. Pendant-hung lighting fixtures shall be supported directly from the structure above using No. 9-gage wire or an approved alternate support without using the ceiling suspension system for direct support.
3. Lighting fixtures weighing less than 56 pounds shall have, in addition to the requirements outlined above, two No. 12-gage hangers connected from opposite corners of the fixture housing to the structure above. These wires may be slack.
4. Lighting fixtures weighing 56 pounds or more shall be supported directly from the structure above by approved hangers.

D. Support for Suspended Fixtures: Brace pendants and rods over 48 inches long to limit swinging. Support stem-mounted, single-unit, suspended fixtures with twin-stem hangers. For continuous rows, use tubing or stem for wiring at one point and tubing or rod for suspension for each unit length of chassis, including one at each end.

E. Surface-mounted light fixtures attached to a ceiling grid shall be attached with positive clamping devices surrounding the supporting members. Attach safety wires between the clamping device and the adjacent ceiling hanger or to the structure above.

F. LED Modules:
1. Comply with ANSI C78.377, UL 8750, IES LM-79 and IES LM-80.
2. CRI minimum of 80 or as scheduled.
3. Efficancy: 75 Lumens per watt minimum for down lights and 100 lumens minimum per watt minimum for other fixture types or as schedule on the drawings.
4. Rated life of minimum 50,000 hours minimum or as scheduled.
5. Fully serviceable and upgradable Light Engine.
6. Warranty: 5-year minimum for all fixture components.

G. LED Drivers:
1. LED Driver/Power Supply: Integral high efficiency driver with power supply of 120V-277v input 60HZ. Power factor greater than 0.9 at full load. Drive current at 1,000ma maximum for interior applications, 1,400ma maximum for exterior applications. Class 2 power supply. Dimming utilizing 0-10V dimming control. Provide continuous flicker free dimming from 100 percent to 10 percent. The driver shall be capable of being serviced through the aperture for down light applications.
2. Warranty: 5-year minimum for all fixture components.

DIVISION 27 - COMMUNICATIONS

270500 - TELE-DATA COMMUNICATIONS

A. Submit Shop Drawings in accordance with DIVISION 01 requirements.

B. Approved manufacturers:
1. Siemon
2. ICC
3. Leviton
4. Ortronics
5. Hubbell
6. Commscope
7. OCC.

C. Applicable Standards:
1. NFPA 70 – "National Electrical Code"
2. NECA 1-2015 – "Standard for Good Workmanship in Electrical Construction"
3. UL910 – "Standard for Safety Test for Flame-Propagation and Smoke-Density"
4. UL 969-2017 – "Standard for Marking and Labeling Systems"
5. TIA-569-D – "Telecommunications Pathways and Spaces"
6. TIA-568-D – "Telecommunications Structured Cabling Standards"
7. TIA-604 – "Fiber Optic Intermateability Standard"
8. TIA-607-C – "Telecommunications Bonding and Grounding for Customers Premises"
9. TIA-526-14-B - "Optical Power Loss Measurements of Installed Multimode Fiber"
10. TIA-606-C – "Administration Standard for Telecommunications Infrastructure"

D. Communications Rooms: Where terminal boards are indicated on the construction documents, provide 3/4-inch thick interior grade plywood from floor to ceiling with fire retardant paint on all sides. Coordinate conduit from the Telephone Terminal Board (TTB) to exterior of building; size and route as dictated by serving utility company. Provide TTB communication grounding bus as required by serving utility, minimum #6 AWG in PVC conduit, extended, shortest and most direct route to ground bar at main switch. Terminate in ground bar installed on TTB. Provide minimum of two quad-plex power receptacle 6 inches above finished floor and additional as indicated on Drawings.

E. Voice/Data Workstation Rough-Ins: Provide 4 inch square, 2-1/8-inch deep 1-gang rough-in with 1-inch conduit stubbed to ceiling space with a 90 degree bend and insulated throat bushing, unless otherwise stated. **Provide two volt bracket and 1" KO at top of wall stud with pull string.**

F. Workstation Outlet Assemblies: (Modules shall be color coded for service type, faceplate/jack color same as specified in the Wiring Devices Section). See construction drawings for number of jacks.
1. Wall Mount Telephone Assembly: Stainless Steel wall mount plate with flat, Category 6, RJ45 module.
2. Voice only Wall Jack Assemblies: **Category 6**, T568A terminated RJ45 module and blank module in a modular style faceplate. Faceplate shall have clear view label covers.
3. Data only Wall Jack Assemblies: **Category 6**, T568A terminated RJ45 module and blank module in a modular style faceplate. Faceplate shall have clear view label covers.
4. Combination Voice/Data Wall Jack Assemblies: **Category 6**, T568A terminated RJ45 modules and blank modules (minimum 2) in a modular style faceplate. Faceplate shall have clear view label covers.

G. Cables:
1. Horizontal Workstation Cabling: **Category 6** unshielded twisted pair (UTP) cable. Plenum rated cable shall be used in spaces used for air handling.
2. Fiber Optic Backbone Cabling: Twelve (12) strands MM OM4 or OM5 Fiber cable shall be provided between all Communications Rooms. **Twelve (12) strands SM Fiber cable shall be provided between all Communications Rooms. Plenum rated cable shall be used in spaces used for air handling.**

H. Racks: Provide free standing 84 inch high rack, 22 inches wide, with baked-polyester powder coat and cable managers at both sides.

I. Workstation Patch Panels: Workstation patch panels shall be **Category 6** in 24 or 48 port sizes with rear wire management and S110 termination blocks. Telephone patch panels shall be **Category 6** in 24 or 48 port sizes with rear wire management and S110 termination blocks. All patch panels shall be separated in racks by front cable managers (1.75 inch for 24 port and 3.5 inch for 48 port). Provide 110 style, hinged punchdown blocks and 4-pair, **Category 6** cables between telephone patch panel and 110 blocks. Cross connecting by Telephone Company. All equipped shall be selected and sized to accommodate incoming workstation cables plus 20 percent spare capacity.

J. Fiber Backbone Patch Panels: Fiber Backbone Patch Panels shall be rack mounted patch panels in 24-port or 48-port sizes equipped to accommodate fiber backbone cables plus 20 percent spare capacity. Patch panels shall have quick-connect, simplex and duplex LC-style couplers with insertion loss no more than 0.5 dB.

K. Patch Cords (UTP): Provide 4 pair cables in appropriate lengths for each workstation patch panel port (used or unused), **Category 6** rated and terminated with an RJ-45 plug at each end. Cables to be routed from workstation patch panels to telephone patch panel above or Owner's hub equipment below. Length shall be long enough to be routed from the workstation port through the front cable manager, through the side cable manager, through the front cable manager to the telephone patch port or Owner's hub port. Also, provide 6 foot, Category 6 rated patch cords for each workstation jack at the user end.

L. Fiber Backbone Patch Cords: Provide LC-LC style terminated fiber cables (or style to connect to Owner's equipment as needed) in 36 inch or 72 inch lengths for each patch panel port.

M. Workstation Wiring Installation:
1. Install cable without damaging conductors or jacket. Do not bend cable to a smaller radius than minimum recommended by manufacturer. Do not exceed manufacturer's recommended pulling tensions. Pull cables simultaneously where more than one is being installed in the same raceway or at the same location. Use pulling compound or lubricant where necessary. Compound used must not damage conductor or insulation. Use pulling methods that will not damage cable or raceway, including fish tape, cable, rope, and wire-cable grips.
2. Wiring shall be a minimum of 48 inches from Transformers and motors >= 5 HP and minimum of 5 inches from light fixtures.
3. Wiring Support Methods:
   a. **UTP Wiring Method: Except as other wise indicated, install wiring in EMT raceway. Conceal raceway except in unfinished spaces and as indicated.**
   b. UTP Wiring Method: Install wiring above accessible ceilings exposed and supported to structure with Erico Cable Cat or Bline 2-inch-wide J hooks, supported to structure every 30 inches to 60 inches. Install all other wiring in EMT conduit concealed. Conceal raceway except in unfinished spaces as indicated.
   c. **UTP Wiring Method: Cable tray as specified and EMT raceway concealed in all other areas. Conceal raceway except in unfinished spaces and as indicated.**
   d. Fiber Backbone Cabling Method: Install in minimum 4-inch EMT with bushed ends and minimum 3-compartment inner duct rated for plenum spaces.
4. Wiring in Wire Closets and Cabinets: Install conductors parallel to and at right angles to walls. Bundle, lace, and train the conductors to terminal points with no excess. Use wire distribution spools at points where cables are fanned or conductors turned. Connect conductors that are terminated, spliced, or interrupted to terminal blocks. Label each terminal with designations approved in accordance with EIA/TIA Standards.
5. Conductor Terminations: Terminate conductors of cables on terminal blocks, patch panels and devices using tools recommended by manufacturer.

A. Identification:
1. Cable/Workstation Labels: Use a unique 9-character alphanumeric designation. Positions 1-3 identify and locate the communications room where the cable originates. Positions 4&5 identify the Rack number. Positions 6&7 identify the patch panel or terminal blocks to which the cable terminates. Positions 8&9 identify the patch-panel port number. Example: TR12A0122 (TR 1, Rack 2A, patch panel 01, port number 33). Label cables within workstation outlet boxes, where accessible in cabinets or junction boxes, at rear of patch panels, at termination blocks and elsewhere as indicated. Place labels with 4 inches of cable termination point. Cable labels shall be vinyl or vinyl cloth, self adhesive, wraparound markers with preprinted numbers and letters. Label each workstation jack on workstation faceplate under clear view covers with preprinted label.
2. Patch Panel Labeling: Label each workstation panel with self-adhesive preprinted single letter designation (01 through 24). Label patch panels used as a patch to telephone cross connect blocks as "Telephone Patch." If more than one telephone patch panel, include designation. Example: Telephone Patch 02.
3. Rack Labeling: Label each rack with engraved plastic laminate number designation. Example: Rack 1A.
4. Communications Room: Label wiring closet with engraved plastic laminate Letter designation. Place label minimum 6 feet above finished floor in visible location with minimum 2 inch high letters. Example: TR03.

Cable Schedule/Map: Post at a prominent location in each equipment room. List incoming and outgoing cables and their designations, origins, and destinations. Protect with a rigid frame and clear plastic cover. Obtain printed floor plan from Engineer and indicate each workstation jack, rack, and communications room designations. Send copy to engineer and include with as-built manuals/Drawings.

270500 - TELE-DATA COMMUNICATIONS (continued)

O. Field Quality Control:
1. Testing Agency: Provide a qualified NRTL, BICSI certified testing agency to perform tests and inspections.
2. Perform tests and inspections as follows:
   a. Visually inspect UTP and optical fiber cable jacket materials for NRTL certification markings. Inspect cabling terminations in communications equipment rooms for compliance with color-coding for pin assignments, and inspect cabling connections for compliance with TIA-568-D.
   b. Visually confirm **Category 6,** marking of outlets, cover plates, outlet/connectors, and patch panels.
   c. Visually inspect cable placement, cable termination, grounding and bonding, equipment and patch cords, and labeling of all components.
   d. UTP Performance Tests: Test for each outlet and multi-user outlet assembly. Perform the following tests in accordance with TIA-568-D.D.
   e. Test UTP backbone copper cabling for DC loop resistance, shorts, opens, intermittent faults, and polarity between conductors. Test operation of shorting bars in connection blocks. Test cables after termination but not cross-connection. Test instruments shall meet or exceed applicable requirements in TIA-568-D.D. Perform tests with a tester that complies with performance requirements in "Test Instruments (Normative)" Annex, complying with measurement accuracy specified in "Measurement Accuracy (Informative)" Annex. Use only test cords and adapters that are qualified by test equipment manufacturer for channel or link test configuration.
   f. Optical Fiber Cable Tests:
      - Test instruments shall meet or exceed applicable requirements in TIA-568-D.D. Use only test cords and adapters that are qualified by test equipment manufacturer for channel or link test configuration.
      - Link End-to-End Attenuation Tests:
        - Horizontal and multimode backbone link measurements: Test at 850 or 1300 nm in one (1) direction according to TIA-526-14-A, Method B, One Reference Jumper. Attenuation test results for Horizontal links shall be less than 2.0 dB.
        - Attenuation test results for backbone links shall be less than that calculated according to equation in TIA-568-D.1.
      - a. Optical Fiber Cable Performance Tests: Perform optical fiber end-to-end link tests according to TIA-568-0.e and TIA-568-D.3.
3. Retesting: Correct deficiencies indicated by tests and completely retest work affected by such deficiencies. Verify that the total system meets the Specifications and complies with applicable standards. Contractor will be reimbursed for replacement of existing cable upon approval of engineer.
4. Report of Tests and Inspections: Prepare a written record of inspections, tests, and detailed test results in the form of a test log All tests (pass and failed) shall be submitted in native format of the tester being used. Retested links shall be identified as retest when corrected. Names of technicians performing tests shall be reported in the test report.

P. Commissioning:
1. Acceptance: This is to be a certified EIA/TIA 568 **Category 6** Data System. Submit system certificates prior to final acceptance.

DIVISION 28 - ELECTRONIC SAFETY AND SECURITY

283100 - FIRE DETECTION AND ALARM

A. Submit Shop Drawings in accordance with the "Common Work Results" Section.

B. Manufacturer: Simplex, Notifier, Edwards, or equal as approved.

C. Compliance: Fire Alarm Design shall be compliance with enforced International Building Codes, NFPA 72, NFPA 13 and **NFPA 90A and applicable Government Agency Codes.**

D. Control panel to be Intelligent Addressable, with 150 percent power supply battery backup. Install semi-flush. **Include and integral DACT dialer. Provide Honeywell #IPGSM-4G fire communicator; connect to dialer primary and secondary lines.**

E. Manual Stations: Intelligent Addressable non-coded double action. Mount semiflush in recessed back boxes. Surface installations shall utilize surface box provided by fire alarm manufacturer and Wiremold 700 raceway. Box by Wiremold not acceptable.

F. Horn/Strobe Units: Combination flush mount type with **beige** finish. Strobe units to be Xenon Strobe Type and shall comply with ADA requirements. Install in flush mounted back boxes 80 inches to bottom of device or 6 inches from ceiling to top of device, which ever is lower. Strobes shall be synchronized. Surface installations shall utilize surface box provided by fire alarm manufacturer and Wiremold 700. Box by Wiremold not acceptable.

G. Speaker/Strobe Units: Combination flush mount with beige finish. Speakers shall comply with UL 1480, have wattage ratings at 1-2 watt and comply with NFPA 72 intelligibility requirements. Provide matching transformers with tap range matched for the acoustical environment of the speaker location. Strobe units to be Xenon Strobe Type and shall comply with ADA requirements. Install in flush mounted back boxes 80 inches to bottom of device or 6 inches from ceiling to top of device, which ever is lower. Strobes shall be synchronized. Surface installations shall utilize surface box provided by fire alarm manufacturer and Wiremold 700. Box by Wiremold not acceptable.

H. Photoelectric Smoke Detectors: Intelligent Addressable photoelectric smoke detector to employ light scattering principle of operation. Smoke detector shall alarm when smoke obscuration level in the detection chamber reaches the 3 percent per foot level. **Do not mount smoke detectors any closer than 60 inches from HVAC air diffusers.**

I. Heat Detectors: Intelligent Addressable,
1. Fixed temperature type, 135 deg F.
2. Rate of rise type, 135 deg F.

J. **Duct Detection**: Intelligent Addressable photoelectric with sampling tubes. (1) Locate in single or combined return air systems greater than 2000 cfm upstream of any filters, and (2) For return systems serving more than one floor and greater than 15,000 cfm, also locate in return air system at each story upstream of the connection between the return air riser and any air ducts or plenums. Comply with MC Section 606 for locations; comply with NFPA 72 for installations. Provide remote test station on wall adjacent each unit. Provide fan shutdown relay within 3 feet of air handler starter integrated with FACP for shutdown of air handler under general alarm.

K. Magnetic door holders shall be floor or wall mounted as indicated complete with matching door plate. Electromagnet: Requires no more than 3 W to develop 25 lbf holding force. **Rating: 120 VAC.**

L. Elevator Recall: Initiated by general alarm. Recall sequence of operation shall be coordinated with authority having jurisdiction by elevator supplier. Smoke detectors in the elevator lobby, hoistway and machine room shall have isolated auxiliary contacts with 3/4 EMT to the elevator equipment panel. Contacts shall be utilized by elevator supplier/installer for general recall operations and recall for fire fighters service.

M. Elevator Shutdown: Heat detectors in the elevator lobby, hoistway and machine room shall have isolated auxiliary contacts. Contacts shall be utilized to operate a shunt trip breaker feeding the elevator for shutdown before sprinkler heads release.

N. Main valve supervisory switches shall be furnished by others and wired by Electrical Contractor.

O. Flow and tamper switches shall be furnished and installed

LIGHTING COMPLIANCE SUMMARY

2021 WSEC Compliance Forms for Commercial Buildings including Group R2, R3 & R4 over 3 stories and all R1 — Administered by: ©2024 NEEA, All rights reserved

Project & Applicant Information	**Project Title**	Kirkland Urban Levels 5-6 - 2021 WSEC	For Building Department Use: **Date: Jun 12, 2024**
	Project Address	400 Urban Plaza Building E Kirkland, WA 98033	
	Applicant Name	Tyler Hestand	
	Applicant Phone	206-514-1019	
	Applicant Email	tylerhestand@cushingterrell.com	

For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com

General Occupancy	All Commercial	**General Building Use Type**		Office, Other	**Building Cond. Floor Area**	217,630
General Project Types	Alteration	**New Building or Addition**		**Alteration Lighting Scope**	Interior Lighting	**Project Cond. Floor Area**	1,945
		Lighting Scope				**Floors Above Grade**	7
						Compliance Method	General Prescriptive
Lighting Project Description	Replace open office furniture with phone rooms and convert collab spaces to huddle rooms						

Lighting Compliance Scope and Method	**Project Type**	**Interior / Exterior** (Interior includes both interior & portins)	**Luminaire Replacement Scope**	**Compliance Method**	**LPA Calculation Adjustment**	**Compliance Verification**
	Alteration	Interior Lighting	20% or more replaced	Space by space	No Calculation Adjustments allowed	**COMPLIES**
Additional Energy Efficiency (AEC) Measures Included	No lighting or electrical additional energy efficiency measures included in project		**Load Management (LDM) Measures Included**		No lighting or electrical load management measures included in project	

Project Title	**Kirkland Urban Levels 5-6 - 2021 WSEC**	**Date**	**Jun 12, 2024**
Lighting Power Calculation	**ALTERATION - INTERIOR LIGHTING (20% or more replaced)**	**Compliance Verification**	**COMPLIES**
Compliance Method	**Space by space**	**LPA Calculation Adjustment**	**none**

Interior Lighting Power Allowance - Space by Space

General Space Type	Specific Space Type	Gross Interior Area (SF)	LPA (Watts/SF)	Total Watts Allowed (SF x LPA x 1)	Total Proposed Watts (LPD * Display LPD)	Compliance Status
Conference/meeting/multipurpose		959	0.97	930		
Conference/meeting/multipurpose		956	0.97	927		
Corridors	General	68	0.41	28		
			Proposed Total LPD		**1,352**	
	Totals			**1,885**	**1,352**	**COMPLIES**

Proposed Lighting Power Density

Fixture Type	Fixture ID	Quantity of Fixtures (#F)	Watts or Wattage Limit per Fixture (WpF)	Total Linear Feet (LF)	Watts per Linear Foot (WpLF)	Total Watts Proposed (#F x WpF) or (LF x WpLF)
Individual Fixtures						
Troffer	A1	4	27			106
Recessed downlight	R2	2	22			44
Recessed downlight	R3	1	36			36
Recessed downlight	R1	40	15			592
Wall wash	WW1	4	35			141
Other fixture type	W1	19	9			173
Other fixture type	P1	4	65			260
					Proposed Total LPD	**1,352**

Project Title	**Kirkland Urban Levels 5-6 - 2021 WSEC**	**Date**	**Jun 12, 2024**
Proposed Fixtures Details	**ALTERATION - INTERIOR LIGHTING (20% or more replaced)**		

Fixture Type/Application	Fixture ID	Location in Documents	Lamp Type	New or Existing-to-Remain
Individual Fixtures				
Troffer	A1	Level 5-6 Light Fixture Schedule	LED	New
	Fixture Description: 2x2 RECESSED TROFFER			Are these fixtures located within a daylight zone?: No
	Do these fixtures require specific application lighting controls?: None required			
Recessed downlight	R2	Level 5-6 Light Fixture Schedule	LED	New
	Fixture Description: 6" PHONE ROOM RECESSED LINEAR			Are these fixtures located within a daylight zone?: No
	Do these fixtures require specific application lighting controls?: None required			
Recessed downlight	R3	Level 5-6 Light Fixture Schedule	LED	New
	Fixture Description: 6" GENERAL RECESSED LINEAR			Are these fixtures located within a daylight zone?: No
	Do these fixtures require specific application lighting controls?: None required			
Recessed downlight	R1	Level 5-6 Light Fixture Schedule	LED	New
	Fixture Description: 4" PHONE ROOM RECESSED LINEAR			Are these fixtures located within a daylight zone?: No
	Do these fixtures require specific application lighting controls?: None required			
Wall wash	WW1	Level 5-6 Light Fixture Schedule	LED	New
	Fixture Description: HUDDLE ROOM RECESSED LINEAR WALL WASH			Are these fixtures located within a daylight zone?: No
	Do these fixtures require specific application lighting controls?: None required			
Other fixture type	W1	Level 5-6 Light Fixture Schedule	LED	New
	Fixture Description: PHONE ROOM SCONCE			Are these fixtures located within a daylight zone?: No
	Do these fixtures require specific application lighting controls?: None required			
Other fixture type	P1	Level 5-6 Light Fixture Schedule	LED	New
	Fixture Description: 3' HUDDLE ROOM PENDANT			Are these fixtures located within a daylight zone?: No
	Do these fixtures require specific application lighting controls?: None required			

Lighting, Motor and Electrical Requirements List, pg 1 of 13

2021 WSEC Requirements for Commercial Buildings including Group R2, R3 & R4 over 3 stories & all R1 — Administered by ©2024 NEEA, All rights reserved

The following information is necessary to check a permit application for compliance with the lighting systems, motors and electrical system requirements in the Washington State Energy Code, Commercial Provisions.

For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com

Project:
Kirkland Urban Levels 5-6 - 2021 WSEC
400 Urban Plaza
Building E
Kirkland, WA 98033

Date: 2024-06-07

Applies	Code Section	Component	Compliance Information Required In Permit Documentation	Location in Documents	Building Department Notes
LIGHTING SCOPE					
	C103.1	Construction documents - General	For a shell & core or tenant space (first build-out) project, indicate if there is no lighting scope included in the project.		
YES	C103.1	Construction documents - General	For an alteration project, indicate if there is no lighting scope included in the project.	E001, E205, E206	
NA	C405.1	Lighting in sleeping units	Indicate general compliance path for permanently installed luminaires in sleeping units - vacancy controls & luminaire efficacy; or lighting power allowance.		
INTERIOR LIGHTING CONTROLS					
YES	C405.2	Interior lighting controls, general	For all interior lighting systems, indicate lighting control method (general lighting controls requirements or luminaire level lighting controls) on plans For all spaces and lighting zone(s) served; indicate exceptions applied to eligible spaces and light	E001, E205, E206	
YES	C405.2.3	Manual controls	Indicate on plans the method of manual lighting control, location of manual control device and the area or specific application it serves.	E001, E205, E206	
YES	C405.2.4 C405.2.4.1	Manual interior light reduction controls	For general lighting not controlled by occupancy sensors, indicate on plans which method of manual 50% lighting load reduction is provided, or indicate applicable exception.	E001, E205, E206	
YES	C405.2.1 C405.2.2	Method of automatic shut-off control	Indicate on plans the method of automatic shut-off control during unoccupied periods (occupancy sensor or time switch) for all lighting zones.	E001, E205, E206	
YES	C405.2.1	Occupant sensor controls	Indicate on plans all luminaires that are controlled by occupant sensor controls; indicate controls are configured to turn luminaires 100% off when the space is unoccupied	E001	
NO	C405.2.1 C405.2.1.1	Occupant sensor controls	Indicate if occupant sensor controls are configured to be manual on or automatic on to not more than 50% power; indicate spaces eligible for exception that allows automatic on to 100% power.	E001	
NA	C405.2.1.2	Occupant sensor controls - warehouse storage areas & library stacks	Indicate each aisleway within a warehouse or library stack space designated as a separate zone that is independently controlled		

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NA			Indicate occupant sensors are configured to automatically reduce lighting power by ≥ 50% when the zone is unoccupied for over 20 minutes; indicate controls are configured to automatically restore lighting to full power when the zone or space is occupie			
NA	C405.2.1.2	Occupant sensor controls - warehouse storage areas & library stacks	Indicate method of automatic 100% shut-off (occupancy sensor or time switch)			
NA	C405.2.1.3	Occupant sensor controls - open plan office areas	For open plan office areas larger than 300 sf, indicate all general lighting control zones are ≤ 600 sf			
NA	C405.2.1.3	Occupant sensor controls - open plan office areas	Indicate all general lighting control zones are provided with vacancy controls that are configured to reduce lighting power by not less than 80% when the zone is unoccupied and turn luminaires 100% off when the control zone is unoccupied; indicate unoccup			
NA	C405.2.1.4	Occupant sensor controls - enclosed fire-rated stairwells	Indicate stairway lighting is provided with occupancy sensor controls that reduce lighting power by not less than 50% when the stairway in unoccupied and restore lighting to 100% when it is occupied.			
YES	C405.2.1.5	Occupant sensor controls - corridors	Indicate corridor lighting is provided with occupancy sensor controls that reduce lighting power by not less than 50% when the corridor is unoccupied.	E001		
NA	C405.2.2.1	Automatic time switch controls	Indicate spaces on plans where time switch controls are configured to turn luminaires 100% off during unoccupied hours			
NA			Indicate spaces on plans where time switch controls are configured to turn on lighting to full power versus 50% power			
NA			Indicate locations of override switches on plans and the lighting zone(s) served; indicate that the area(s) served by each override switch does not exceed 5,000 sf.			
NA	C405.2.5.2 C405.2.5.4	Daylight zones - Sidelit zones	Indicate primary and secondary sidelit daylight zone floor areas on plans			
NA			For small vertical fenestration assemblies (rough opening less than 10% of primary daylight zone floor area) where daylight responsive controls are not required, provide fenestration area to daylight zone floor area calculation(s).			
NA			Indicate toplit daylight zone floor areas on plans.			
NA	C405.2.5 C405.2.5.1	Daylight responsive controls	Indicate on plans all lighting zone(s) served by daylight responsive controls; indicate that the area served by each control device does not exceed 2,500 SF			

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NA			Identify sidelit and toplit daylight zones that are not provided with daylight responsive controls and the exception(s) that apply			
NA	C405.2.5.1	Daylight responsive controls	Indicate on plans that all daylight responsive controls provide continuous dimming to ≤15% full light output			
NA	C405.2.5.1	Daylight responsive controls	Indicate that daylight responsive controls are configured to completely shut off all controlled lighting fixtures within the lighting zone.			
NA	C405.2.5.1	Daylight responsive controls	Indicate that daylight responsive controls are configured to completely shut off all controlled lighting fixtures within the lighting zone.			
NA	C405.2.6	Additional controls - Specific application lighting controls	Identify spaces and lighting fixtures on plans that require specific application lighting controls per this section.			
NA	C405.2.6, Items 1.1 thru 1.6	Additional lighting controls for display, accent & supplemental task lighting	Indicate on plans that all display, accent and supplemental task lighting fixtures are controlled independently from general area lighting			
NA	C405.2.6, Items 1.1 and 1.2	Display and accent lighting	For display and accent lighting fixtures, including lighting fixtures added per the C405.2.2.1 additional interior lighting power allowance, indicate on plans the separate manual controls for these fixtures and the type of automatic off controls (occupanc			
NA			For display case lighting fixtures, indicate on plans the separate manual controls for these fixtures and the type of automatic off controls (occupancy sensor or time-switch)			
NA	C405.2.6, Item 1.4	Supplemental task lighting	For supplemental task lighting fixtures including under-shelf or under-cabinet lighting, indicate on plans the separate manual controls for these fixtures and the type of automatic off controls (occupancy sensor or time-switch)			
NA	C405.2.6, Item 1.5	Lighting equipment for sale or demonstration	For lighting equipment for sale or demonstration, indicate on plans the separate manual controls for these fixtures and the type of automatic off controls (occupancy sensor or time-switch)			
NA			For exhibit lighting fixtures in galleries, museums and monuments, indicate on plans the separate manual controls for these fixtures and the type of automatic off controls (occupancy sensor or time-switch).			
	C405.2.6, Item 2	Permanently installed lighting in sleeping units	Indicate method of automatic off control of all installed luminaires in sleeping units (vacancy or captive key card control); also refer to Receptacles.			

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NA	C405.2.6, Item 3	Lighting for non-visual applications	For lighting serving non-visual applications (food warming and lighting for life support of nonhuman life forms), indicate on plans that lighting fixtures are controlled independently from both general area lighting and other lighting applications within			
NA			Indicate on plans separate manual controls for non-visual lighting application fixtures and applicable automatic lighting controls; indicate that the area served by each control device does not exceed 4,000 sf.			
NA			For task lighting that serves medical & dental purposes, indicate on plans that lighting fixtures are provided with manual control that is independent from general area lighting.			
NA	C405.2.6, Item 5	Means of egress lighting	Identify all means of egress lighting fixtures on plans including fixtures that function as both normal and emergency illumination			
NA			Provide calculation for total lighting power density (LPD) of all means of egress lighting fixtures; if total LPD is ≥ 0.01 Watts/SF, indicate on plans the method of automatic shut-off control during unoccupied periods (emergency relay & occupancy sens			
NA	C405.2.8	Advanced lighting controls in open office areas	For open office areas ≥ 5,000 sf, indicate which advanced lighting control system is provided (luminaire level lighting controls or networked lighting controls).			
	C405.2.8.1	Luminaire level lighting controls (LLLC)	Where LLLC are provided to comply with C405.2.8, or provided as the alternate lighting controls compliance method per C405.2, or to comply with C406.2.4.2 Enhanced digital interior lighting controls; provide sequence of operations that describes required			
NA	C405.2.8.1 C405.2.8.3	Luminaire level lighting controls (LLLC)	Indicate on plans that each LLLC luminaire is configured with occupancy sensing control functions (including C405.2.1.3 requirements for open office areas) and continuous full range dimming controls to brighten or dim lights based on occupancy and availab			
NA	C405.2.8.2	Networked lighting control (NLC)	Where NLC are provided to comply with C405.2.8, or to comply with C406.2.4.2 Enhanced digital interior lighting controls; provide sequence of operations that describes required NLC capabilities and performance parameters			
NA	C405.2.8.2 C405.2.8.3	Networked lighting control (NLC)	Indicate on plans that each NLC luminaire is individually addressable or document exception applied; Indicate on plans that each NLC luminaire is configured with occupancy sensing control functions (including C405.2.1.3 requirements for open office areas)			

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NA	C405.8.3	High end trim	Where high end trim is required, luminaires shall be initially configured to limit maximum lumen output or lighting power to 85% or to the target design lighting power.			
INTERIOR LIGHTING CONTROLS - ADDITIONAL ENERGY EFFICIENCY MEASURE						
	C406.2.4.2	Enhanced digital interior lighting controls	To comply with the enhanced interior lighting controls measure, provide calculations that demonstrate that lighting in ≥ 50% of the project floor area is provided with LLLC (C405.2.8.1) or NLC (C405.2.8.2) controls with high end trim (C405.2.8.3)			
			Where LLLC is provided, indicate on plans that each LLLC controlled luminaire is configured with integral sensors; where NLC is provided, indicate on plans that each NLC controlled luminaire is configured to be independently addressable; provide sequence			
NA	C406.2.4.1	Enhanced lighting controls in Group R-2	In Group R-2 occupancies, indicate on plans a master control at the main entrance to each dwelling or sleeping unit that switches off all lights and switched receptacles (may be two controls, one for lights and the other for receptacles); indicate on plan			
INTERIOR LIGHTING CONTROLS - LIGHTING LOAD MANAGEMENT MEASURE						
NA	C406.3.1	Interior lighting DDC controls & real-time demand response	To comply with the interior lighting load management measure, indicate automatic lighting controls are connected to a central DDC system capable of activation by an external utility signal; where utility real-time demand or pricing program exists, indicat			
NA	C406.3.1	Interior lighting power reduction controls	Indicate lighting controls are configured to gradually reduce by continuous dimming the interior general area lighting power by ? 20% in response to a peak demand signal; calculate the percentage of total building floor area served by load management ligh			
NA	C406.3.1	Warehouse & retail storage interior lighting power reduction controls	For warehouse & retail storage areas, indicate method of interior general area lighting power reduction (continuous dimming by ? 20%; switching off ? 25% of lighting power).			
EXTERIOR LIGHTING CONTROLS						
	C405.2.9 C405.2.9.1 C405.2.9	Exterior lighting controls	For all exterior lighting, indicate on plans automatic controls (either daylight sensing or astronomic time clock) configured to turn lighting off when daylight is present; or indicate exception applied.			
			For exterior building facade & landscape lighting, indicate that controls are configured to turn this lighting off when daylight is present for a minimum of 6 hours per night, or from 1 hour after closing to 1 hour before opening per the occupancy schedul			

Cushing Terrell.

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ISSUE FOR PERMIT

06.20.2024
PROJ.# | GOGL_KUN
DESIGNED BY | HESTAND
DRAWN BY | HESTAND
REVIEWED BY | MAEHL
REVISIONS

ENERGY COMPLIANCE FORMS

E502

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			For outdoor parking area (not parking garage) luminaires that are mounted ≤ 24 feet high and are rated at ≥ 40 watts, indicate that controls are configured to turn this lighting off when daylight is present; in addition, indicate controls are config	
			For exterior lighting other than building facade, landscape and outdoor parking area lighting, indicate controls are configured to reduce lighting power by at least 50% from 12am-6am, or 1 hour after closing to 1 hour before opening, or when no activity i	
	C405.2.10	Parking garage lighting control	Indicate all interior parking garage lighting fixtures are provided with time switch controls (per C405.2.2.1) or occupancy sensor controls (per C405.2.1.1); indicate controls are configured to reduce lighting power by at least 30% when no activity is det	
	C405.2.10	Parking garage lighting control - Perimeter lighting zones	For parking garage lighting fixtures located within 20 feet of perimeter wall openings, indicate on plans that daylight sensing controls are configured to reduce lighting power by at least 50%, or exception applied	
	C405.2.10	Parking garage lighting control - Eye adaptation lighting	For lighting fixtures at vehicle entrances & exits, indicate on plans that daylight sensing controls are configured to reduce lighting power by at least 50% from sunrise to sunset.	
NA	C405.3	Lighting for plant growth and maintenance	For permanently installed lighting fixtures used specifically for plant growth and maintenance, indicate that the photosynthetic photon efficacy measured at the lamp or luminaire is ≥ 1.7 (μmol/J in greenhouses and ≥ 1.9 (μmol/J in all other indoo	
	C405.5.4	Exterior gas-fired lighting appliances	Indicate ignition system is a method other then continuously burning pilot light.	
INTERIOR & EXTERIOR LIGHTING CONTROL CIRCUITS				
NA	C405.2.7	Area controls - Master control switches	Indicate location(s) of lighting master control switch(es) intended to control multiple independent switches; a circuit breaker may not be used as a lighting master control switch	
NA			Verify the maximum power controlled by any single lighting control switch or automatic control device is no more than a 20 amp circuit loaded to ? 80%.	
INTERIOR LIGHTING POWER & EFFICACY				
YES	C405.4.1	Total connected interior lighting power	Include all luminaires in interior lighting fixture schedule; indicate fixture types, lamps, ballasts and rated watts per fixture; include rated wattage of lamps for luminaires with lamps connected directly to building power; include wattage limit of tran	E001

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NA				Identify spaces eligible for lighting power exemption on plans and in WSEC interior lighting compliance reports; indicate the exception applied	
NA				Identify lighting equipment eligible for lighting power exemption in fixture schedule and in WSEC interior lighting compliance reports; indicate the exception applied.	
	C405.1.1	Lighting in dwelling units		Include all permanently installed luminaires in dwelling units in interior lighting fixture schedule; include luminaire lighting power and efficacy (lumens)	
				Include all permanently installed luminaires in sleeping units in interior lighting fixture schedule; include luminaire lighting power or efficacy (lumens) depending on compliance path taken per C405.1	
NA				For all permenantly installed luminaires, indicate in interior lighting fixture schedule that rated lamp efficacy is ≥ 65 lumens/watt or luminaire efficacy is ≥ 45 lumens/watt.	
NA	C405.4.2	Interior lighting power allowance (LPA)		Indicate which interior LPA method is applied to the entire building (Building Area Method or Space-by-Space Method); indicate LPA applied is Space-by-Space Method for partial building projects and for buildings with unfinished spaces.	
INTERIOR LIGHTING POWER CALCULATION - INDICATE COMPLIANCE PATH TAKEN					
NA	C405.4.2.1	Building Area Method		Demonstrate that total proposed interior lighting wattage per building does not exceed the sum of the maximum allowed wattages for all building area types; identify locations of building areas on plans; provide WSEC interior lighting compliance reports.	
YES	C405.4.2.2	Space-By-Space Method		Demonstrate that total proposed interior lighting wattage does not exceed the maximum allowed wattage; identify locations of space types on plans, including additional allowance retail display areas and areas with display, highlight and decorative lightin	E502
INTERIOR LIGHTING POWER & EFFICACY - ADDITIONAL ENERGY EFFICIENCY MEASURES					
NA	C406.2.3.1 C406.2.3.2	Reduced interior lighting power density (LPD)		To comply with the reduced interior LPD additional energy efficiency measure, demonstrate that total proposed interior LPD wattage is 10% or 20% lower than the total interior LPA wattage for the area the reduced lighting power measure is being applied to	

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	C406.2.3.3	Reduced interior LPD - Dwelling & sleeping unit lamp efficacy	To comply with reduced interior LPD additional energy efficiency measure for a building with dwelling units or sleeping units, indicate in interior lighting fixture schedule that all permanently installed luminaires have a rated lamp efficacy ≥ 90 lume
EXTERIOR LIGHTING POWER & EFFICACY			
	C405.5.2	Total connected exterior lighting power	Include all luminaires in exterior lighting fixture schedule; indicate fixture types, lamps, ballasts and rated watts per fixture; include rated wattage of lamps for luminaires with lamps connected directly to building power; include wattage limit of tran
			Identify exterior lighting applications eligible for lighting power exemption on plans and in WSEC exterior lighting compliance reports; indicate the exception applied.
	TABLE C405.5.3(1)	Exterior lighting zone	Indicate the building exterior lighting zone as specified by the AHJ.
	C405.5.1	Exterior building grounds lighting	For building grounds lighting fixtures rated at greater than 25 watts, indicate in exterior lighting fixture schedule that fixtures have a rated lamp efficacy ≥ 100 lumens/watt or indicate the exception applied.
EXTERIOR LIGHTING POWER CALCULATION			
	C405.5.3	Exterior lighting power allowance (LPA)	Demonstrate that total proposed exterior surface lighting wattage does not exceed the maximum allowed wattage (including base site allowance); identify locations of exterior surfaces on plans; provide WSEC exterior lighting compliance reports
			Demonstrate that total proposed wattage for each additional allowance exterior surface type does not exceed the LPA for the surface type (includes base site allowance remaining after C405.5.3 LPA calculation); identify locations of additional allowance ex
LIGHTING SYSTEMS ALTERATIONS			
NA	C503.7.1	New lighting systems and controls	Where new interior or exterior lighting systems are installed within an existing building site, indicate new lighting controls comply with C405.2; indicate commissioning of lighting controls (C408.4) and lighting system energy end-use metering (C409.3) wi
NA	C503.7.2	Interior lighting & parking garage lighting alteration	Include all new luminaires in interior lighting fixture schedule in plans, provide same lighting fixture information as for new construction per C405.4.1 and C405.4.2

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				For alterations that add or replace ≥ 20% of luminaires within an interior space or parking garage, indicate which interior lighting power allowance (LPA) method is applied to the alteration project area (Space-by-Space Method for partial building alte	
				Demonstrate that total proposed interior lighting wattage (including existing-to-remain lighting wattage) within the alteration project area does not exceed the maximum allowed wattage (Space-by-Space Method) or the sum of the maximum allowed wattages for	
NA	C503.7.2	Interior lighting alterations (LPA) - Add/replace		For alterations that add or replace < 20% of luminaires in an interior space or parking garage, calculate total existing interior lighting wattage within the project area prior to the alteration	
NA	C503.7.2	Interior lighting alterations (LPD) - Add/replace		Demonstrate that total proposed interior lighting wattage (including existing-to-remain lighting wattage) within the alteration project area does not exceed the total existing interior lighting wattage prior to the alteration; provide WSEC interior lighti	
				Include all new luminaires in exterior lighting fixture schedule in plans, provide same lighting fixture information as for new construction per C405.5.2	
	C503.7.2	Exterior lighting alterations (LPA) - Add/replace &ge 20%		For alterations that add or replace ≥ 20% of exterior lighting wattage, indicate exterior lighting power allowance (LPA) calculated in the same manner as for new construction	
	C503.7.2	Exterior lighting alterations (LPD) - Add/replace &ge 20%		Demonstrate that total proposed exterior lighting wattage (including existing-to-remain lighting wattage) does not exceed the maximum allowed wattage; identify locations of surface types on plans, including additional allowance surfaces; provide WSEC exte	
	C503.7.2	Exterior lighting alterations (LPA) - Add/replace		For alterations that add or replace < 20% of exterior lighting wattage, calculate total existing exterior lighting wattage prior to the alteration	
	C503.7.2	Exterior lighting alterations (LPD) - Add/replace		Demonstrate that total proposed exterior lighting wattage (including existing-to-remain lighting wattage) does not exceed the total existing exterior lighting wattage prior to the alteration; identify locations of surface types on plans, including additio	
	C503.7.3	Interior lighting wiring & circuiting alterations		Where new wiring is installed to serve new interior luminaires and /or luminaires are relocated to a new circuit; indicate manual and automatic lighting controls are provided (as applicable) - manual & light reduction (C405.2.3 & C405.2.4); occupancy sens	

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			Where new wiring is installed to serve new exterior luminaires and /or luminaires are relocated to a new circuit; indicate circuit power area controls (C405.2.7) are provided; indicate commissioning of exterior lighting controls (C408.4) will be provided,	
	C503.7.4	Lighting panel alterations	Where a new interior and/or exterior lighting panel is installed or an existing panel is moved (including all new raceway and conductor wiring), indicate all of the same interior lighting controls requirements as for wiring & circuiting alterations apply,	
	C503.7.5	Newly-created rooms	Where interior space(s) are reconfigured (permanently installed walls or ceiling-height partitions) to create new enclosed spaces, indicate the following manual and automatic lighting controls are provided (as applicable) - manual & light reduction (C405.	
YES	C504.2	Lighting repairs	Identify existing luminaires being upgraded with bulb and / or ballast replacement; indicate fixture alteration does not increase existing fixture wattage	E205, E206
NA	C505.1	Change of interior space use	Identify spaces on plans where the building area type or space use type is being changed from one type to another per Tables C405.4.2(1) or (2) including additional allowance retail display areas and areas with display, highlight and decorative lighting	
NA			Demonstrate that total proposed interior lighting wattage (including existing-to-remain lighting wattage) within the alteration project area does not exceed the maximum allowed wattage (Space-by-Space Method) or the sum of maximum allowed wattage per each	
RECEPTACLES				
YES	C405.10	Automatic receptacle control	Provide schedule on electrical plans that lists the number of controlled and uncontrolled receptacles in each space where controlled receptacles are required - classrooms, enclosed offices, conference rooms, copy/print rooms, break rooms and individual wo	E001
YES			Identify all controlled and uncontrolled receptacles on electrical plans; indicate that ≥ 50% of all receptacles are provided with automatic controls in each space where they are required; include receptacle configuration such as spacing between contro	E305, E306
YES			Indicate on plans the method of automatic control for each controlled receptacle zone (occupant sensor or programmable time-of-day control); indicate that the area served by each control device does not exceed 5,000 sf.	E305, E306

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	C405.2.6, Item 2	Switched receptacles in sleeping units		Indicate method of automatic off control of all switched receptacles in sleeping units (vacancy or key card control);	
NA	C405.7.1	Electric receptacles at dwelling unit gas appliances		In all designated appliance locations within dwelling units (kitchen cooking appliances, laundry and domestic water heating), indicate electric receptacles or junction box & circuit within 12 inches of the appliance location with sufficient capacity to se	
YES	C503.7.7	Electrical receptacle alterations		For alteration project areas ≥ 5,000 sf where electric receptacles are added or replaced, indicate receptacles are provided with automatic controls per C405.10, or exception applied.	E305, E306
ELECTRIC MOTORS					
	C405.8	Electric motor efficiency		Include all motors, including fractional hp motors, in electric motor schedule on electrical plans; indicate motor type, horsepower, rpm, rated efficiency, or exception applied.	
ELEVATORS, ESCALATORS & MOVING WALKS					
	C405.9.1	Elevator cabs		For luminaires in each elevator cab, provide calculations that demonstrate average efficacy is not less than 35 lumens per watt	
				For elevators that do not have an integral air conditioning system, indicate rated watts per cfm for elevator cab ventilation fans do not exceed 0.33 watts per cfm	
				Indicate automatic controls that de-energize lighting and ventilation fans when elevator is stopped and unoccupied for a period of 15 minutes or more.	
	C405.9.2	Escalators and moving walks		Indicate escalators and moving walks comply with ASME A17.1/CSA B44 and are provided with automatic controls that are configured to reduce operational speed to the minimum permitted when not in use, or exception applied.	
	C405.9.3	Escalator energy recovery		Indicate escalators are designed to recover electrical energy when resisting overspeed in the down direction.	
RENEWABLE ENERGY					
NA	C411	Renewable Energy		For new construction, including additions, change of use, and change of occupancy, with floor area ≥ 100000sf; provide documentation of on-site renewable energy capacity; provide calculations supporting applicable exceptions; if qualifying by exception provide an accounting for the additional Additional Energy Efficiency Credits that will be required	

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RENEWABLE ENERGY - ADDITIONAL ENERGY EFFICIENCY MEASURE				
NA	C406.2.5	On-site and off-site renewable energy	To comply with the renewable energy measure, provide an accounting of on-site and any contracted off-site renewable energy capacity; for all off-site sources, indicate the C411.2 renewable energy source type, energy factor, and the rated capacity and calculated code credited kW; indicate on-site renewables used to comply with C411 or for a code exception elsewhere in the code; with the remaining renewable energy provide Equation 4-17 calculations showing the achieved credits and that the achieved credits are ? the base credits for the measure	
NA	C406.2.5	On-site and off-site renewable energy	Provide documentation that all off-site renewable energy systems comply with Sections C411.2.2 and C411.2.3 including all contracts, and the ownership and location of off-site generation	
ELECTRIC ENERGY STORAGE - LOAD MANAGMENT MEASURE				
NA	C406.3.4	Electric energy storage	To comply with the electrical energy storage load managment measure, indicate automatic controls shall store electricity in electric storage devices during nonpeak periods and use stored energy during peak periods; Document the total electric storage device capacity; indicate it is ? 5 Wh/sf (58 Wh/sm) of gross building area; for proration provide the proration calculations supporting the claimed credit	
GENERAL ELECTRICAL SYSTEMS				
	C405.6	Electrical transformers	Include electrical transformer schedule on electrical plans; indicate transformer type, size (kVA), efficiency, or exception applied.	
	C405.7	Dwelling unit electrical energy consumption	Indicate on electrical plans that each dwelling unit in a Group R-2 building has a separate electrical energy meter, or exception applied.	
YES	C405.11	Voltage drop	Indicate wire conductors are sized so that the maximum voltage drop from customer service conductors to branch circuit conductors is &le 5%.	E001
NA	C405.12	Alternating current-output uninterruptible power supplies (AC-output UPS)	Indicate in plans that AC-output UPS systems serving computer rooms meet or exceed the calculation and testing requirements identified in ENERGY STAR Program Requirements for Uninterruptible Power Supplies (UPS) ? Eligibility Criteria Version 2.0.	
COMMISSIONING (CX)				

Lighting, Motor and Electrical Requirements List, pg 13 of 13

2021 WSEC Requirements for Commercial Buildings including Group R2, R3 & R4 over 3 stories & all R1 ~ Administered by ©2024 NEEA. All rights reserved
The following information is necessary to check a permit application for compliance with the lighting systems, motors and electrical system requirements in the Washington State Energy Code, Commercial Provisions.
For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com

YES	C408.4	Scope of electrical power & lighting systems commissioning		Indicate that all electrical systems (receptacles, transformers, motors, vertical & horizontal transportation) For which the WSEC requires control functions and/or configuration to perform specific functions are required to be commissioned; include docume	E501
YES				Where total building lighting load is ≥ 10 kW or the total lighting load of luminaires requiring daylight sensing and/or occupancy control is ≥ 5 kW; indicate that all automatic lighting control systems are required to be commissioned; or provide ca	E501
YES	C408.1.1	Commissioning requirements in construction documents		Indicate Cx requirements in plans and specifications for all applicable electrical and lighting control systems	E501
YES	C408.1.2 C103.6.3	Commissioning requirements in construction documents		General summary of Cx plan shall include the following: 1) Narrative description of activities; 2) Responsibilities of the Cx team; 3) Schedule of activities including verification of project close out documentation (C103.6); 4) Conflict of interest plan	E501
YES	C408.1.3 C408.1.4	Commissioning requirements in construction documents		Include in general summary that a Cx project report and Cx Compliance Checklist (Figure C408.1.4.1) shall be completed by the Certified Cx Professional and provided to the owner prior to the final electrical inspection.	E501
YES	C408.4.1	Functional performance testing criteria		Identify in plans and specifications the intended operation of all electrical equipment and controls during all modes of operation, including interfacing between new and existing-to-remain systems,	E501
PROJECT CLOSE OUT					
YES	C103.6.3	Documentation requirements		Indicate in plans that project close out documentation is required; indicate information shall include WSEC lighting compliance reports that document all interior lighting areas and space types, exterior lighting surface types, interior/exterior lighting	E501

If "no" is selected for any question, provide explanation.

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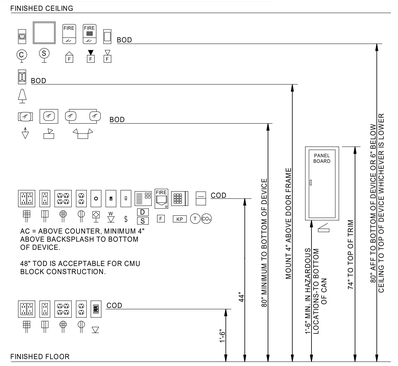
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ENERGY COMPLIANCE FORMS

E503

INTERIOR BOX MOUNTING HEIGHTS



TELECOMMUNICATIONS LEGEND

SYMBOLS APPLY ONLY WHEN USED ON DRAWINGS

ABBREVIATIONS AND MISCELLANEOUS

SYMBOL	DESCRIPTION
AC	ABOVE COUNTER, 4" BACK SPLASH
ATS	AUTOMATIC TRANSFER SWITCH
AFG	ABOVE FINISHED GRADE
AFF	ABOVE FINISHED FLOOR
BLG	BELOW GRADE
BOD	BOTTOM OF DEVICE
C	CONDUIT
CAS	CARD ACCESS SYSTEM
CCTV	CLOSED CIRCUIT TV
CLG	CEILING
COD	CENTER OF DEVICE
CU	COPPER
DVR	DIGITAL VIDEO RECORDER
(E)	EXISTING
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
GC	GENERAL CONTRACTOR
GND	GROUND
LSI	FIELD ADJUSTABLE LONG TIME, SHORT TIME AND INSTANTANEOUS
LSIG	FIELD ADJUSTABLE LONG TIME, SHORT TIME, INSTANTANEOUS AND GROUND FAULT
MC	MECHANICAL CONTRACTOR
(N)	NEW
NL	NIGHT LIGHT
PTZ	PAN-TILT-ZOOM
QTY	QUANTITY
(R)	RELOCATED
SF	SURFACE
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TC	TEMPERATURE CONTROL CONTRACTOR
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUS BAR
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
W/	WITH
WM	WIRE MOLD
WP	WEATHER PROOF (WHILE IN USE)
XFMR	TRANSFORMER
a,b,c etc	SWITCH DESIGNATION
BN1L-2,4,6	CIRCUIT DESIGNATION, PANEL BN1L, CIRCUITS 2,4,6
1/E501	INDICATES DETAIL 1 ON SHEET E501
(#)	SHEET WORK NOTE
(#)	SHEET DEMO WORK NOTE
	HOME RUN TO PANEL
	CONDUIT CONCEALED IN CEILING OR WALL
	CONDUIT CONCEALED UNDER FLOOR
LV	LOW VOLTAGE CIRCUIT
	FIBER OPTIC CABLE
	CABLE TRAY
	CIRCUIT, PROVIDE 2#12, 1#12 GND IN 3/4" CONDUIT FOR EACH CIRCUIT UNLESS OTHERWISE NOTED ON THE DRAWINGS.

COMMUNICATIONS

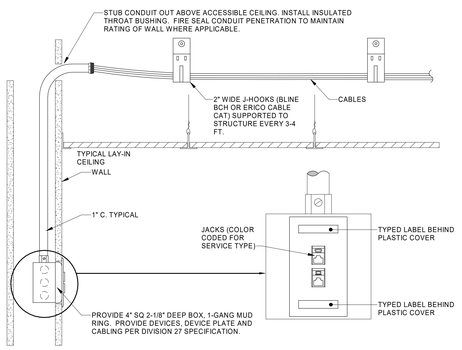
SYMBOL	DESCRIPTION
	CATV JACK, WALL MOUNTED
CLG	CATV JACK CEILING MOUNTED
	MICROPHONE OUTLET
	SPEAKER, SPEAKER WALL MOUNTED
	CLOCK HANGER RECEPTACLE
	VOICE/DATA JACK
#	NUMERICAL SUBSCRIPT INDICATES NUMBER OF CABLES/JACKS, NO SUBSCRIPT ASSUMES TWO CABLES/JACKS
W	WALL MOUNT TELEPHONE READY JACK
WAP	WIRELESS ACCESS POINT
	VOICE/DATA JACK MOUNTED IN FLOORBOX
#	NUMERICAL SUBSCRIPT INDICATES NUMBER OF CABLES/JACKS, NO SUBSCRIPT INDICATES TWO CABLES/JACKS
	EXISTING VOICE/DATA JACK
	DATA RACK

SURVEILLANCE SYSTEM

SYMBOL	DESCRIPTION
	FIXED CEILING CAMERA
	FIXED WALL CAMERA

SECURITY SYSTEM

SYMBOL	DESCRIPTION
CR	CARD READER - WALL
CR M	CARD READER - MULLION
DC	MAGNETIC CONTACT - RECESSED
REX	REQUEST TO EXIT
REX H	REQUEST TO EXIT IN HANDLE
P	PANIC (ASSIST) BUTTON
BG	BREAK GLASS EMERGENCY EXIT
S	SOUNDER
ST	STROBE
WSS	WATER BUG SENSOR
TEM	HI/LOW TEMPERATURE SENSOR
EP	ELECTRIC (LOCK) PANIC HARDWARE
EL	ELECTRIC LOCK SET
	PANEL
SCP	SECURITY CONTROL PANEL
SDC	SECURITY DOOR CONTROLLERS



NOTE:
VERIFY EXACT WALL TYPES WITH ARCHITECTURAL DRAWINGS. DRAWING IS INTENDED FOR GENERAL REFERENCE; ALL REQUIRED EQUIPMENT AND SUPPORTS NOT SHOWN.

1 / T001 VOICE DATA ROUGH-IN J HOOKS

NOT TO SCALE

TECHNOLOGY SHEET INDEX

T001	TECHNOLOGY LEGENDS AND DETAILS
T015	SPECIAL SYSTEMS DEMOLITION PLANS - FIFTH FLOOR
T016	SPECIAL SYSTEMS DEMOLITION PLANS - SIXTH FLOOR
T205	TELECOMMUNICATIONS PLANS - FIFTH FLOOR
T206	TELECOMMUNICATIONS PLANS - SIXTH FLOOR
T305	SECURITY PLANS - FIFTH FLOOR
T306	SECURITY PLANS - SIXTH FLOOR

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TECHNOLOGY LEGENDS AND DETAILS

T001

② KEYNOTES

1. REMOVE CONDUIT BACK TO NEAREST PULL BOX ABOVE CEILING. REMOVE EXISTING NETWORK CABLING BACK TO SOURCE. CONDUIT TO BE REUSED AND EXTENDED TO NEW CONNECTIONS. REFER TO NEW WORK PLANS.
2. REMOVE FLOORBOX FOR EXISTING FURNITURE CONNECTION. COORDINATE PATCH AND REPAIR OF CARPET AND CONCRETE SLAB WITH GENERAL CONTRACTOR. REMOVE CONDUIT AND NETWORK CABLING BACK TO SOURCE.
3. WHITEBOARD BEHIND DATA OUTLET TO BE REMOVED BY OTHERS. MODIFY DEVICE AND BACKBOX AS REQUIRED FOR NEW WALL FINISH. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
4. REMOVE NETWORK CABLING AND ASSOCIATED SURFACE MOUNTED CONDUIT BACK TO NEAREST PULL BOX ABOVE CEILING.
5. REMOVE NETWORK CABLING AND ASSOCIATED BOX AND CONDUIT BACK TO SOURCE.
6. REMOVE SECURITY CARD READER AND ASSOCIATED DOOR HARDWARE AND PATHWAYS.

GENERAL DEMOLITION NOTES

A. ELECTRICAL WORK IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. PATCHING AND PAINTING IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
B. DISCONNECT ALL ELECTRICAL ITEMS WHICH ARE TO BE REMOVED AND/OR RELOCATED WHILE MAINTAINING CONTINUITY OF REMAINING CIRCUITRY.
C. PROVIDE NEW CONDUCTORS, RACEWAYS, ETC., AS REQUIRED TO MAINTAIN OPERATION OF EXISTING OUTLETS, EQUIPMENT, ETC. WHICH REMAIN OR ARE RELOCATED.
D. NO EXISTING WIRING MAY BE REUSED IN THE NEW ELECTRICAL WORK UNLESS OTHERWISE NOTED.
E. ALL EXISTING CIRCUITS, CONDUIT AND WIRE THAT ARE NOT IN USE AFTER DEMOLITION IS COMPLETED SHALL BE REMOVED.
F. EXISTING CONDUITS IN THE FLOOR WHICH ARE NOT USED AND WHICH ARE ABANDONED SHALL BE TRIMMED TO FLOOR SURFACE, GROUND FLUSH AND FILLED WITH GROUT. FINISH FLOOR TO MATCH EXISTING.
G. WORK SHALL BE PERFORMED WITH NO DISRUPTION OF THE OWNER'S BUSINESS. ALL ELECTRICAL POWER DISRUPTIONS SHALL BE SCHEDULED AND APPROVED BY THE OWNER.
H. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH NEC, STATE AND LOCAL BUILDING CODE.
I. ALL DASHED ITEMS ON DEMOLITION PLANS ARE TO BE REMOVED UNLESS NOTED OTHERWISE. SOLID ITEMS ARE TO REMAIN OR TO BE RELOCATED AS NOTED. NOTE - ITEMS SHOWN IN THE DEMOLITION PLANS ARE BASED ON FIELD OBSERVATIONS. ADDITIONAL ELECTRICAL ITEMS MAY BE ENCOUNTERED THAT ARE NOT SHOWN - ALL GENERAL ELECTRICAL ITEMS ARE TO BE REMOVED THAT ARE NOT SHOWN, BUT ARE IN AREAS OF COMPLETE REMODEL.
J. HATCH DENOTES AREAS OUTSIDE OF THE SCOPE OF WORK. ALL EXISTING ELECTRICAL EQUIPMENT, DEVICES, LUMINAIRES, ETC. IN THESE AREAS ARE EXISTING TO REMAIN, UNLESS NOTED OTHERWISE.



1 / T015 SPECIAL SYSTEMS DEMOLITION PLANS - FIFTH FLOOR
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SPECIAL SYSTEMS DEMOLITION PLANS - FIFTH FLOOR

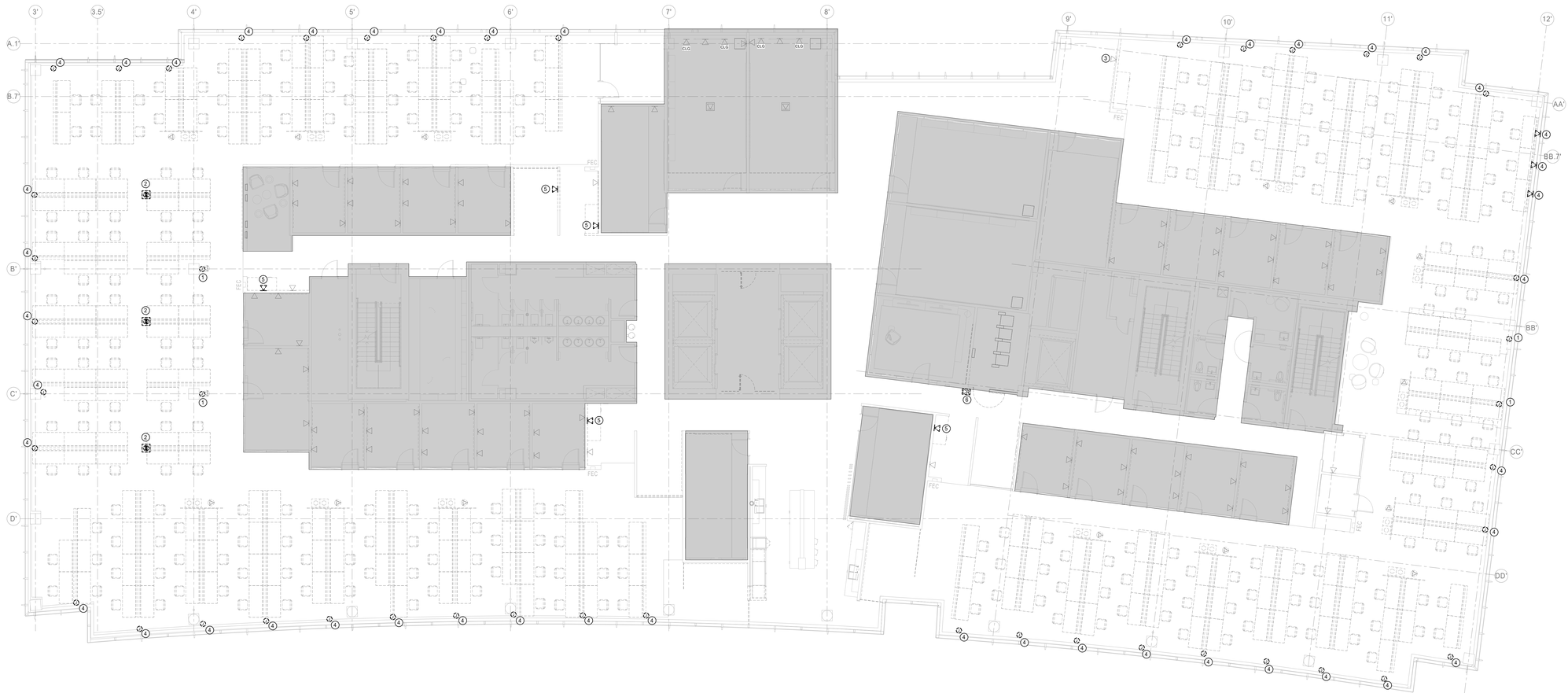
T015

② KEYNOTES

1. REMOVE CONDUIT BACK TO NEAREST PULL BOX ABOVE CEILING. REMOVE EXISTING NETWORK CABLING BACK TO SOURCE. CONDUIT TO BE REUSED AND EXTENDED TO NEW CONNECTIONS. REFER TO NEW WORK PLANS.
2. REMOVE FLOORBOX FOR EXISTING FURNITURE CONNECTION. COORDINATE PATCH AND REPAIR OF CARPET AND CONCRETE SLAB WITH GENERAL CONTRACTOR. REMOVE CONDUIT AND NETWORK CABLING BACK TO SOURCE.
3. WHITEBOARD BEHIND DATA OUTLET TO BE REMOVED BY OTHERS. MODIFY DEVICE AND BACKBOX AS REQUIRED FOR NEW WALL FINISH. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
4. REMOVE NETWORK CABLING AND ASSOCIATED SURFACE MOUNTED CONDUIT BACK TO NEAREST PULL BOX ABOVE CEILING.
5. REMOVE NETWORK CABLING AND ASSOCIATED BOX AND CONDUIT BACK TO SOURCE.
6. REMOVE SECURITY CARD READER AND ASSOCIATED DOOR HARDWARE AND PATHWAYS.

GENERAL DEMOLITION NOTES

A. ELECTRICAL WORK IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. PATCHING AND PAINTING IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
B. DISCONNECT ALL ELECTRICAL ITEMS WHICH ARE TO BE REMOVED AND/OR RELOCATED WHILE MAINTAINING CONTINUITY OF REMAINING CIRCUITRY.
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E. ALL EXISTING CIRCUITS, CONDUIT AND WIRE THAT ARE NOT IN USE AFTER DEMOLITION IS COMPLETED SHALL BE REMOVED.
F. EXISTING CONDUITS IN THE FLOOR WHICH ARE NOT USED AND WHICH ARE ABANDONED SHALL BE TRIMMED TO FLOOR SURFACE, GROUND FLUSH AND FILLED WITH GROUT. FINISH FLOOR TO MATCH EXISTING.
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J. HATCH DENOTES AREAS OUTSIDE OF THE SCOPE OF WORK. ALL EXISTING ELECTRICAL EQUIPMENT, DEVICES, LUMINAIRES, ETC. IN THESE AREAS ARE EXISTING TO REMAIN, UNLESS NOTED OTHERWISE.



1 T016 SPECIAL SYSTEMS DEMOLITION PLANS - SIXTH FLOOR
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SPECIAL SYSTEMS DEMOLITION PLANS - SIXTH FLOOR

T016

KEYNOTES

1. UTILIZE EXISTING PATHWAY FOR NETWORK CABLING TO THE FURTHEST EXTEND POSSIBLE, EXTEND TO DEVICE AS REQUIRED.
2. INSTALL 1" CONDUIT TO ABOVE ACCESSIBLE CEILING PER 1/T001 FOR NEW NETWORK CABLING.
3. INSTALL CUT-IN BOX IN THE EXISTING WALL WITH PULL STRINGS TO ABOVE ACCESSIBLE CEILING FOR NEW NETWORK CABLING.
4. UTILIZE EXISTING PATHWAYS FOR NETWORK CABLING AND THE EXISTING JUNCTION BOX FOR NEW WALL TERMINATION. NETWORK OUTLET AT WORKSTATION IS SHOWN FOR REFERENCE ONLY, WORKSTATION CONNECTION AND DEVICES ARE BY OTHERS.
5. INSTALL 18" LADDER TRAY ABOVE NETWORK RACKS FOR HORIZONTAL CABLING, REFER TO 3/E001 FOR NETWORK RACK SECTION DETAIL.

GENERAL NOTES

A. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE: ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL EQUIPMENT AND DEVICE LOCATIONS WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DIVISIONS PRIOR TO ROUGH-IN. REFER TO AND COORDINATE WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL WORK THAT IS REQUIRED BY THE ELECTRICAL CONTRACTOR.
B. ALL CONDUIT AND JUNCTION BOXES IN FINISHED AREAS ARE TO BE CONCEALED IN WALLS, FUR OUTS, AND CEILINGS. ANY USE OF SURFACE MOUNTED RACEWAY IN FINISHED AREAS MUST BE APPROVED BY THE ARCHITECT. WHERE APPROVED, UTILIZE WIREMOLD OR APPROVED EQUAL SURFACE MOUNTED RACEWAYS PAINTED TO MATCH SURROUNDING WALLS.
C. WHERE DEVICES ARE SHOWN FOR INSTALLATION ON EXISTING WALLS, IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE CUTTING, PATCHING, AND PAINT AS REQUIRED TO PROVIDE FLUSH MOUNTED INSTALLATION.
D. COMMUNICATIONS CABLING AND EQUIPMENT IS TO BE PROVIDED BY THE OWNER'S SPECIFIC VENDOR, BUT SHALL BE INCLUDED IN THE GENERAL CONTRACTOR'S COST. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION BETWEEN THE GENERAL CONTRACTOR AND CABLING PROVIDER. ELECTRICAL CONTRACTOR TO PROVIDE ROUGH-IN ONLY.
E. WHERE NEW OUTLETS ARE INSTALLED IN EXISTING WALLS, "RING AND STRING" CUT-IN BOXES WITH PULL STRINGS TO ABOVE ACCESSIBLE CEILINGS ARE ACCEPTABLE. PROVIDE CONDUIT FOR OUTLETS IN NEW WALLS PER DETAIL 1/T001.
F. ALL CABLE LOCATED IN AIR PLENUMS SHALL BE PLENUM RATED.
G. REFER TO SECURITY SHOP DRAWINGS FOR INSTALLATION DETAILS, ELEVATIONS, PATHWAY, AND ADDITIONAL REQUIREMENTS.

REVISED
03/05/2025

1 T205 TELECOMMUNICATIONS PLANS - FIFTH FLOOR
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REVISIONS
1 09.06.2024 ADDENDUM #1
2 11.15.2024 ADDENDUM #2
3 12.20.2024 ASI #1
5 03.04.2025 ASI #2

TELECOMMUNICATIONS PLANS - FIFTH FLOOR

T205

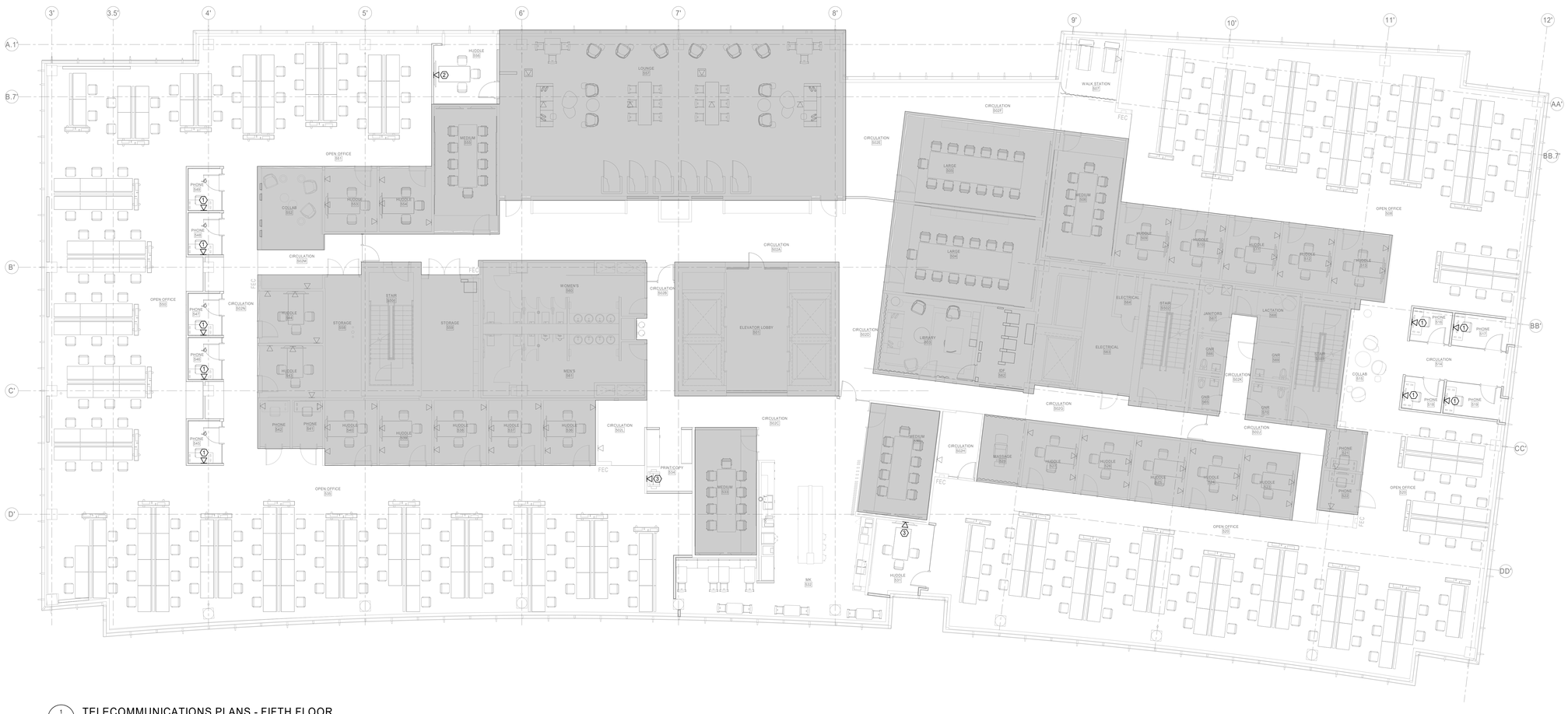
SUPERSEDED

KEYNOTES

1. UTILIZE EXISTING PATHWAY FOR NETWORK CABLING, EXTEND PATHWAY TO DEVICE LOCATION. REFER TO DEMOLITION PLANS.
2. INSTALL 1" CONDUIT TO ABOVE ACCESSIBLE CEILING PER 1/T001 FOR NEW NETWORK CABLING.
3. INSTALL CUT-IN BOX IN THE EXISTING WALL WITH PULL STRINGS TO ABOVE ACCESSIBLE CEILING FOR NEW NETWORK CABLING.

GENERAL NOTES

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B. ALL CONDUIT AND JUNCTION BOXES IN FINISHED AREAS ARE TO BE CONCEALED IN WALLS, FUR OUTS, AND CEILINGS. ANY USE OF SURFACE MOUNTED RACEWAY IN FINISHED AREAS MUST BE APPROVED BY THE ARCHITECT. WHERE APPROVED, UTILIZE WIREMOLD OR APPROVED EQUAL SURFACE MOUNTED RACEWAYS PAINTED TO MATCH SURROUNDING WALLS.
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F. ALL CABLE LOCATED IN AIR PLENUMS SHALL BE PLENUM RATED.
G. REFER TO SECURITY SHOP DRAWINGS FOR INSTALLATION DETAILS, ELEVATIONS, PATHWAY, AND ADDITIONAL REQUIREMENTS.



1 T205 TELECOMMUNICATIONS PLANS - FIFTH FLOOR
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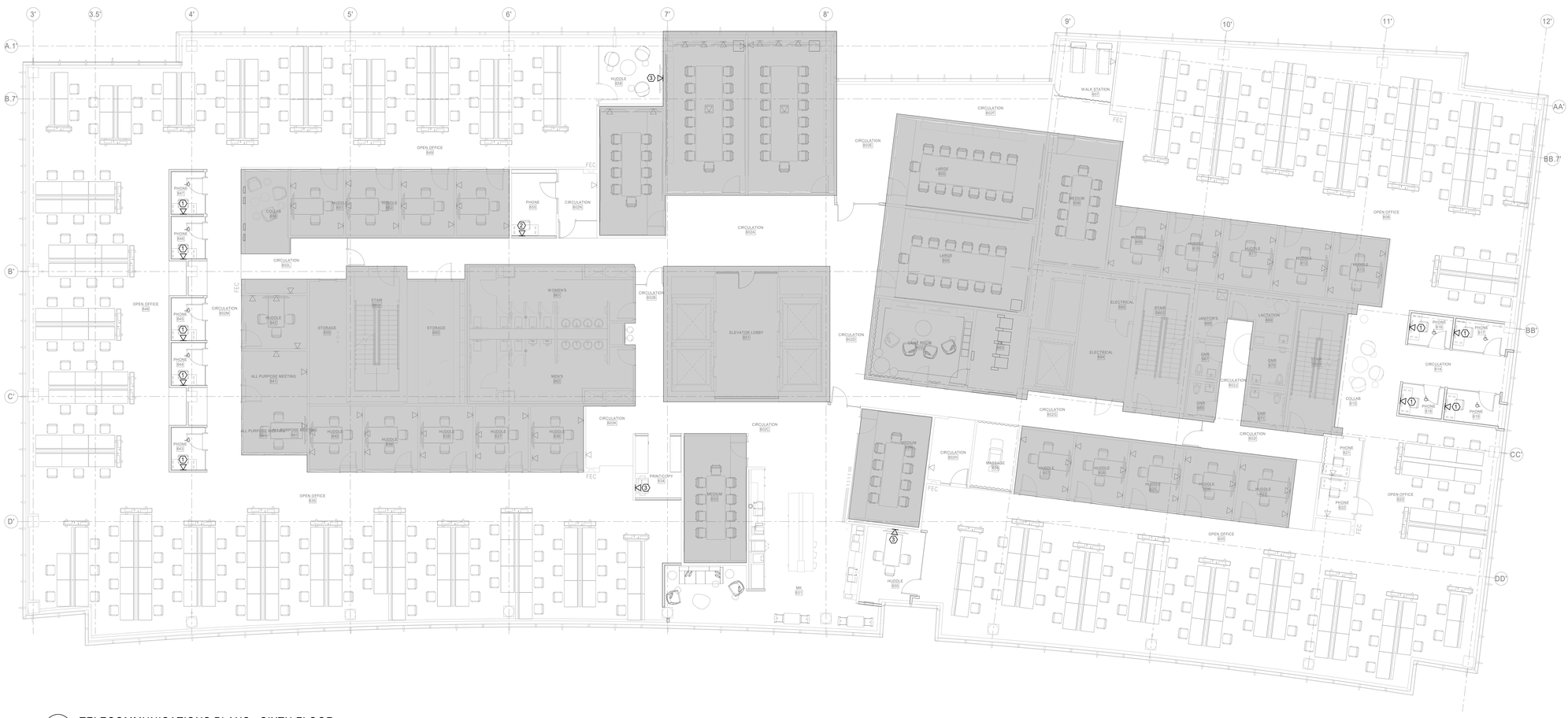
T205

KEYNOTES

1. UTILIZE EXISTING PATHWAY FOR NETWORK CABLING, EXTEND PATHWAY TO DEVICE LOCATION. REFER TO DEMOLITION PLANS.
2. INSTALL 1" CONDUIT TO ABOVE ACCESSIBLE CEILING PER 1/T001 FOR NEW NETWORK CABLING.
3. INSTALL CUT-IN BOX IN THE EXISTING WALL WITH PULL STRINGS TO ABOVE ACCESSIBLE CEILING FOR NEW NETWORK CABLING.

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F. ALL CABLE LOCATED IN AIR PLENUMS SHALL BE PLENUM RATED.
G. REFER TO SECURITY SHOP DRAWINGS FOR INSTALLATION DETAILS, ELEVATIONS, PATHWAY, AND ADDITIONAL REQUIREMENTS.



1 / T206 TELECOMMUNICATIONS PLANS - SIXTH FLOOR
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TELECOMMUNICATIONS PLANS - SIXTH FLOOR

T206

KEYNOTES

1. INSTALL CARD READER ON NEW CURTAIN WALL. ROUTE WIRES THROUGH MULLION FRAME. REFER TO ARCHITECTURAL DOOR HARDWARE SCHEDULES, ELEVATIONS AND SUBMITTALS.
2. INSTALL CARD READER ON EXISTING CURTAIN WALL. ROUTE WIRES THROUGH MULLION FRAME, FIELD COORDINATE WITH EXISTING CONDITIONS.
3. ADA DOOR. UPSIZE SECURITY WIRING JUNCTION BOX ABOVE DOOR TO A 6"x6" BOX. REFER TO SECURITY SHOP DRAWINGS FOR CONNECTION DETAILS.

GENERAL NOTES

A. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE: ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL EQUIPMENT AND DEVICE LOCATIONS WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DIVISIONS PRIOR TO ROUGH-IN. REFER TO AND COORDINATE WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL WORK THAT IS REQUIRED BY THE ELECTRICAL CONTRACTOR.
B. ALL CONDUIT AND JUNCTION BOXES IN FINISHED AREAS ARE TO BE CONCEALED IN WALLS, FUR OUTS, AND CEILINGS. ANY USE OF SURFACE MOUNTED RACEWAY IN FINISHED AREAS MUST BE APPROVED BY THE ARCHITECT. WHERE APPROVED, UTILIZE WIREMOLD OR APPROVED EQUAL SURFACE MOUNTED RACEWAYS PAINTED TO MATCH SURROUNDING WALLS.
C. WHERE DEVICES ARE SHOWN FOR INSTALLATION ON EXISTING WALLS, IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE CUTTING, PATCHING, AND PAINT AS REQUIRED TO PROVIDE FLUSH MOUNTED INSTALLATION.
D. COMMUNICATIONS CABLING AND EQUIPMENT IS TO BE PROVIDED BY THE OWNER'S SPECIFIC VENDOR, BUT SHALL BE INCLUDED IN THE GENERAL CONTRACTOR'S COST. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION BETWEEN THE GENERAL CONTRACTOR AND CABLING PROVIDER. ELECTRICAL CONTRACTOR TO PROVIDE ROUGH-IN ONLY.
E. WHERE NEW OUTLETS ARE INSTALLED IN EXISTING WALLS, "RING AND STRING" CUT-IN BOXES WITH PULL STRINGS TO ABOVE ACCESSIBLE CEILINGS ARE ACCEPTABLE. PROVIDE CONDUIT FOR OUTLETS IN NEW WALLS PER DETAIL 1/T001.
F. ALL CABLE LOCATED IN AIR PLENUMS SHALL BE PLENUM RATED.
G. REFER TO SECURITY SHOP DRAWINGS FOR INSTALLATION DETAILS, ELEVATIONS, PATHWAY, AND ADDITIONAL REQUIREMENTS.



1 T305 SECURITY PLANS - FIFTH FLOOR
1/8" = 1'-0"

Cushing Terrell.
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800.757.9522

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ISSUE FOR PERMIT

06.20.2024
PROJ# | GOGL_KUN
DESIGNED BY | HESTAND
DRAWN BY | STOCKWEATHER
REVIEWED BY | MAEHL
REVISIONS

SECURITY PLANS - FIFTH FLOOR

T305

KEYNOTES

1. INSTALL CARD READER ON NEW CURTAIN WALL, ROUTE WIRES THROUGH MULLION FRAME. REFER TO ARCHITECTURAL DOOR HARDWARE SCHEDULES, ELEVATIONS AND SUBMITTALS.
2. INSTALL CARD READER ON EXISTING CURTAIN WALL, ROUTE WIRES THROUGH MULLION FRAME, FIELD COORDINATE WITH EXISTING CONDITIONS.

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