2nd Floor STA Office Renovation

SITKA TRIBE OF ALASKA

FINISHES

FINISH SCHEDULE - FLOOR 2

Number	Room Name	Area	Level	Floor Finish	Base Finish	S Wall	W Wall	N Wall	E Wall	Ceiling Finish	NOTES
201	COR. A	149 SF	FLOOR 2	CT 1	WD	PT1	PT1	PT1	PT1	AT 2X2	
202	COR. B	128 SF	FLOOR 2	CT 1	WD	PT1	PT1	PT1	PT1	AT 2X2	
203	COR. C	146 SF	FLOOR 2	CT 1	WD	PT1	PT1	PT1	PT1	AT 2X2	
214	STAIRS	147 SF	FLOOR 1,2,3	CT 2	RB	PT1	PT1	PT1	PT1	SEE NOTES	1, 2, 3, 4, 5
220	CONFERENCE ROOM	225 SF	FLOOR 2	CT 1	RB	PT1	PT1	PT1	PT2	AT 2X4	PT2-C. ACCENT, EAST WALL
221	OFFICE	85 SF	FLOOR 2	CT 1	RB	PT1	PT1	PT1	PT1	AT 2X4	
222	OFFICE	119 SF	FLOOR 2	CT 1	RB	PT1	PT1	PT1	PT1	AT 2X4	
223	OFFICE	105 SF	FLOOR 2	CT 1	RB	PT1	PT1	PT1	PT1	AT 2X4	
224	OFFICE	105 SF	FLOOR 2	CT 1	RB	PT1	PT1	PT1	PT1	AT 2X4	
225	OFFICE	94 SF	FLOOR 2	CT 1	RB	PT1	PT1	PT1	PT1	AT 2X4	
226	OFFICE	128 SF	FLOOR 2	CT 1	RB	PT1	PT1	PT1	PT1	AT 2X4	
227	OFFICE	117 SF	FLOOR 2	CT 1	RB	PT1	PT1	PT1	PT1	AT 2X4	
228	STORAGE	165 SF	FLOOR 2	CT 1	RB	PT1	PT1	PT1	PT1	AT 2X4	
229	ACTIVITY SPACE	997 SF	FLOOR 2	RB	RB	PT1	PT2	PT1	PT1	AT 2X4	PT2-A. ACCENT, WEST WALL

PRODUCT ABBREVIATIONS:

Flooring:

CT1- Carpet Tile: Carpet Tile 2' x 2'- typical offices & corridors. “Art Exposure, Academic View, #924 Platinum”, manufactured by Mohawk Group.

CT2- Broadloom: Broadloom Carpet - stairwell. "Learn & Live, Mirada Stitchlock GL417, #878 Moth Wing", manufactured by Mohawk Group.

RT- Rubber Tile: Ecore ECOfit Plus interlocking tiles. Color - Bedrock. Typical, activity space.

RB - Rubber Base: 4" wall base, manufactured by Roppe. Match color to Floor 1&3. Typical offices and activity space.

WD - Wood Base: 4" Cherry base provide in Hallway.

Walls:

PT1- Scrubbable and impact resistant paint, on all standard walls, Eggshell Finish.

PT1 - Glidden-1680

PT2 - Use Glidden -1679 as base with accent top coat as identified.

PT2-A - HC-134 Caldwell Green
PT2-B - 2091-10 Tea
PT2-C - HC-134 Tarry Green

WD-1 - Wood TWS Trim: 1 1/2" x 3/4" Cherry Trim for Relight Frames.

Ceiling:

AT 2x2 - Accoustic Ceiling Tile: 2' x 2' Provide in Corridor, Armstrong “Fine Fissured”, high NRC.

AT 2x4 - Accoustic Ceiling Tile: 2' x 4' Provide in typical offices & storage,Armstrong “Fine Fissured”, high NRC.

1. Work to be completed on all three stories.
2. Replace Ceiling Tile; Grid and Lights to stay.
3. Ceiling tile provided by owner, installed by contractor
4. Replace metal nosings with "STALMN 42" Aluminum Stair Nosings, Black Grit, no reflective stripes", manufactured by American Stair Treads
5. Existing handrails and doors to stay.

DOORS

Door Schedule FLOOR 2

Mark	Type	Width	Height	Finish	HW SET	Frame Type
220	F	3' - 0"	7' - 0"	WD VENEER	1	HM
222	V	3' - 0"	7' - 0"	WD VENEER	1	HM
223	F	3' - 0"	7' - 0"	WD VENEER	1	HM
224	F	3' - 0"	7' - 0"	WD VENEER	1	HM
226	V	3' - 0"	7' - 0"	WD VENEER	1	HM
227	F	3' - 0"	7' - 0"	WD VENEER	1	HM
228	F	3' - 0"	7' - 0"	WD VENEER	1	HM
229	V	3' - 0"	7' - 0"	WD VENEER	2	HM

SCHEDULE OF FINISH HARDWARE:

Finish List:

32D	Satin Stainless Steel
630	Satin Stainless Steel
689	Aluminium Painted
BLK	Black
GREY	Grey
630AM	Satin Stainless - Antimicrobial Coating
US26D	Chromium Plated, Dull
US32D	Stainless Steel, Dull

Manufactureres List:

AR	Adams Rite
BE	Best Access Systems
CRL	CRL
NA	National Guard
SH	Stanley Commercial Hardware
ST	Stanley
TR	Trimco

HARDWARE SETS (HW SET):

HARDWARE SET 1: Interior WD Veneer, Solid Core doors typ Offices and Storage. Timely knock down prefinished steel frames.

3 Hinges	FBB179 4 1/2 x 4 1/2 NRP	US26D	ST
1 Lockset	9K3-7B16D	630AM	BE
1 Wall Bumper	1270WX	630	TR
3 Door Silencers	1229A	GREY	TR

HARDWARE SET 2: Interior WD Veneer Door, Solid Core. Timely knock down prefinished steel frame.

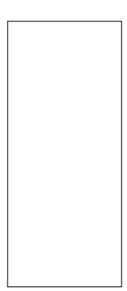
3 Hinges	FBB199 4 1/2 x 4 1/2 NRP	US32D	ST
1 Exit Device	AR 8400 Mortise	BLK	AR
1 Door Closer	QDC211 BF	689	SH
1 Lockset	9K3-7B16D	630AM	BE
1 Gasket	130 SA 1 x 36" 2 x 84"		NA

ABBREVIATIONS:

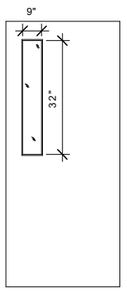
Door Types:

F - Flush Door
P - Plate Glass
V - Vision Lite Flush Door

HM - Hollow Metal Frame
WD VENEER - Solid Core w/ Wood Veneer Facing



F- Flush Panel



V - Vision Lite Flush

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GENERAL WORK SCOPE

This project consists of interior improvements located on the second floor of the recently-renovated 204 Siginaka Building, owned by the Sitka Tribe of Alaska. The new layout, totaling 3,459 sq.ft. of office and activity space, is similar in function and occupancy to the other building spaces. Overall occupancy counts have not changed. All finishes and colors will match those utilized in STA Floor One and Floor Three.

The overall building renovation documents dated 8.14.2020 anticipated the full renovation of Floor Two, including comprehensive replacement of mechanical and electrical systems throughout the building, coupled with new exterior walls and window systems. The overall building code analysis considered overall exiting and life safety systems, and upgraded ventilation and heating capacity for renovated office uses.

OWNER	ARCHITECT
Sitka Tribe of Alaska 907.747.3207 GENERAL MANAGER: Lisa Gassman E-MAIL: lisa.gassman@sitkatribe-nsn.gov	MRV ARCHITECTS, PC 1420 GLACIER AVE, SUITE 101 JUNEAU, ALASKA 99801 907.209.1353 MANAGER: Paul Voelckers E-MAIL:paul@mrvarchitects.com
ELECTRICAL ENGINEER	**MECHANICAL ENGINEER**
RESPEC ENGINEERS 2700 GAMBELL ST. STE 500 ANCHORAGE, ALASKA 99503 907.743.3200 MANAGER: Robert Posma E-MAIL: RobertPosma@pdceng.com	ALASKA ENERGY ENGINEERING LLC 25200 AMALGA HARBOR JUNEAU, AK 99801 907.789.1226 MANAGER: Jim Rehfeldt E-MAIL: jim@alaskaenergy.us

NOTE: 11"x 17" PRINT IS HALF SIZE

STATE OF ALASKA
PAUL VOELCKERS
No. 6536-A
REGISTERED PROFESSIONAL ARCHITECT

DATE: 08.23.2024

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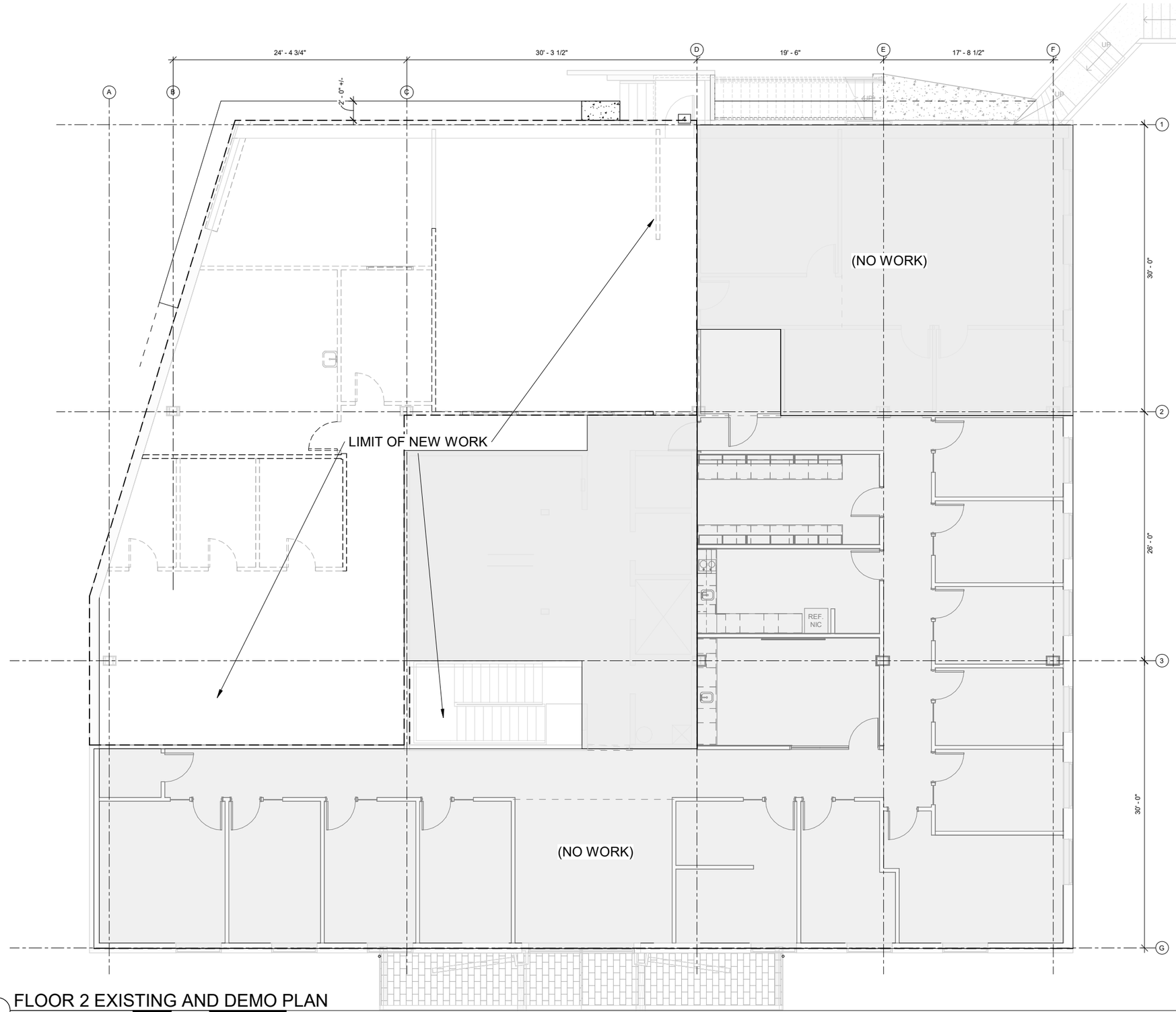
CONSTRUCTION DOCUMENTS
2nd Floor STA Office Renovation
SITKA TRIBE OF ALASKA

No.	Description	Date

SHEET TITLE:
SHEET INDEX, SCHEDULES & WORK SCOPE

DRAWN: MRV
CHECKED: PV

SHEET NO.
A001



1 FLOOR 2 EXISTING AND DEMO PLAN
3/16" = 1'-0"
0' 4' 8' 16'

NOTE: 11"x 17" PRINT IS HALF SIZE

STATE OF ALASKA
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CONSTRUCTION DOCUMENTS

2nd Floor STA Office Renovation

SITKA TRIBE OF ALASKA

No.	Description	Date

SHEET TITLE:
FLOOR 2 DEMO

DRAWN: MRV
CHECKED: PV

SHEET NO.
A110

WORK NOTES:

1. COMPREHENSIVE NEW STAIR FINISHES; ALL THREE STORIES. SEE A001 FOR ADDITIONAL NOTES.

1 FLOOR 2 - NEW STA SPACE
3/16" = 1'-0"
0' 4' 8' 16'

ACTUAL NORTH
PROJECT NORTH

NOTE: 11"x 17" PRINT IS HALF SIZE

STATE OF ALASKA
12/31/24
Paul Voelckers
PAUL VOELCKERS
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CONSTRUCTION DOCUMENTS

2nd Floor STA Office Renovation

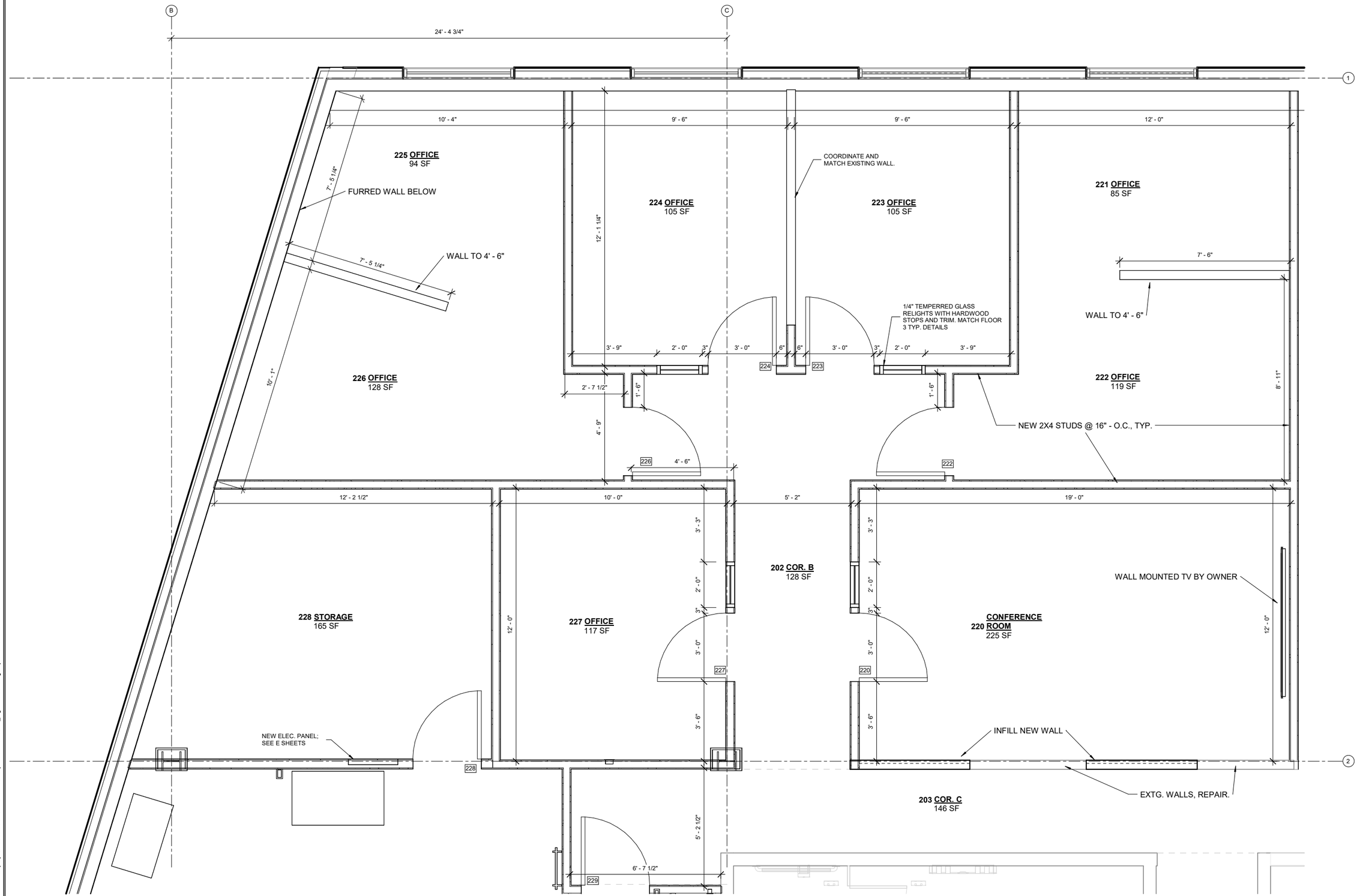
SITKA TRIBE OF ALASKA

No.	Description	Date

SHEET TITLE:
FLOOR PLAN, LEVEL 2

DRAWN: MRV
CHECKED: PV

SHEET NO.
A202



1 FLOOR 2 - CCTHITA NEW OFFICES ENLARGED

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

NOTE: 11"x 17" PRINT IS HALF SIZE

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CONSTRUCTION DOCUMENTS

2nd Floor STA Office Renovation

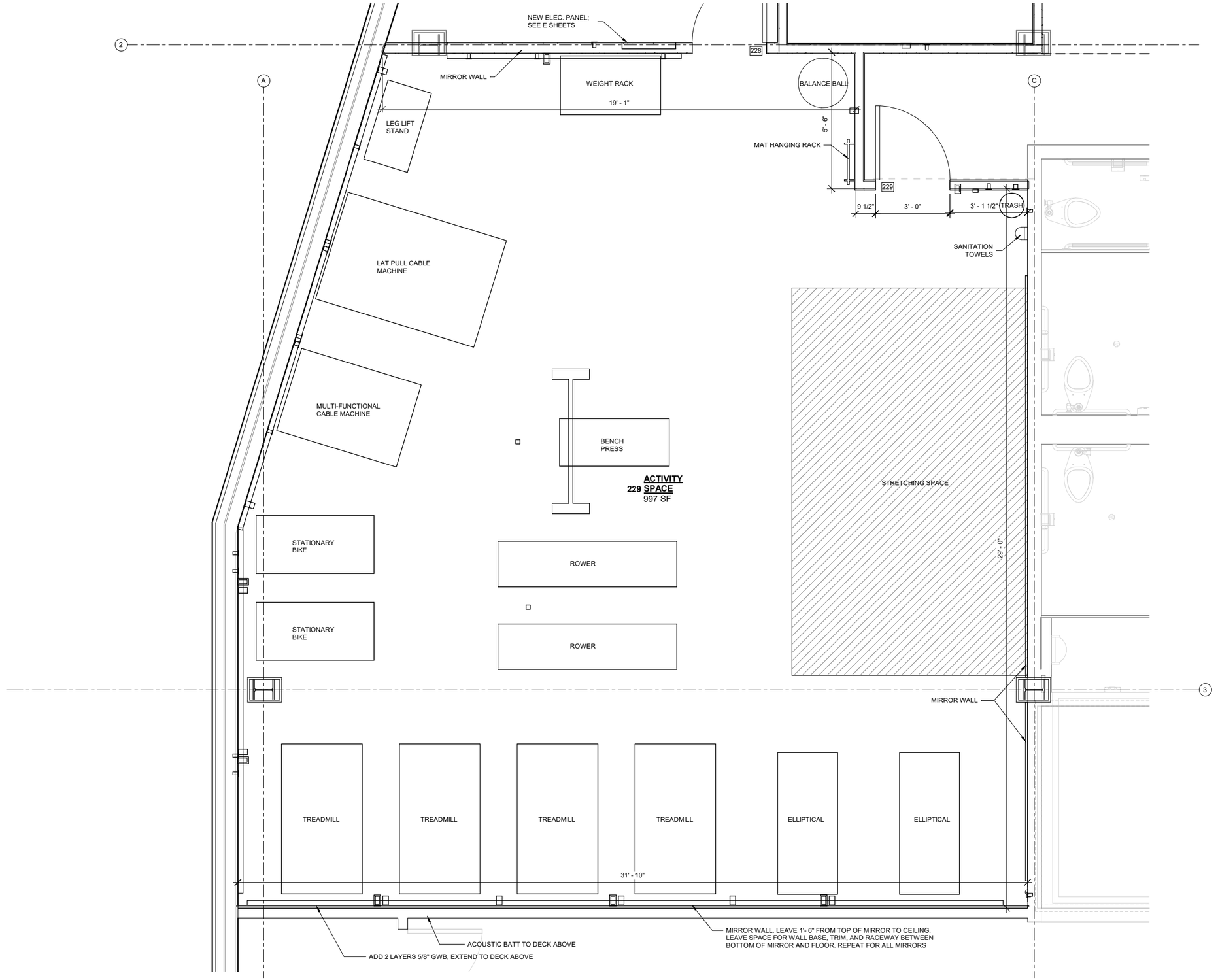
SITKA TRIBE OF ALASKA

No.	Description	Date

SHEET TITLE:
ENLARGED OFFICE PLAN

DRAWN: Author
CHECKED: PV

SHEET NO.
A254



1 ENLARGED ACTIVITY SPACE
1/2" = 1'-0"
0' 1' 2' 4'

NOTE: 11"x 17" PRINT IS HALF SIZE

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CONSTRUCTION DOCUMENTS

2nd Floor STA Office Renovation

SITKA TRIBE OF ALASKA

No.	Description	Date

SHEET TITLE:
ENLARGED ACTIVITY SPACE

DRAWN: Author
CHECKED: PV

SHEET NO.
A255

1 SECOND FLOOR CEILING PLAN
3/16" = 1'-0" 0' 2' 4' 8'

NOTES

1. PROVIDE 2X4 GWB VALANCE SET AT 8'-9" AFF.

   FOR REFERENCE ONLY. SEE ELEC/MECH. FOR DETAILS.

2. EXISTING GRID AND LIGHTS TO STAY.

   NEW CEILING TILES PROVIDED BY OWNER, INSTALLED BY CONTRACTOR.

NOTE: 11"x 17" PRINT IS HALF SIZE

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MRV 2301

CONSTRUCTION DOCUMENTS

2nd Floor STA Office Renovation

SITKA TRIBE OF ALASKA

No.	Description	Date

SHEET TITLE:
RCP, LEVEL 2

DRAWN: MRV
CHECKED: PV

SHEET NO.
A902

VRF HEAT PUMP SCHEDULE

Symbol	Heating MBH (1)	Cooling MBH (2)	Refrigerant	Electrical	Design Basis	Notes
(E) VRF-1	70	57	R-410A	208V / 3-ph / MCA=61A	Daikin REYQ168	Existing VRF heat pump unit on roof
(E) VRF-2	65	58	R-410A	208V / 3-ph / MCA=61A	Daikin REYQ168	Existing VRF heat pump unit on roof
(E) VRF-3	74	73	R-410A	208V / 3-ph / MCA=61A	Daikin REYQ168	Existing VRF heat pump unit on roof

(1) Heating Outdoor Tempertaure = 10Fdb / 6Fwb

(2) Cooling Outdoor Tempertaure = 75Fdb / 67Fwb

BRANCH SELECTOR BOX SCHEDULE

Symbol	Heat Pump	Floor	Connected Ports	Total Ports	Heating MBH	Cooling MBH	Electrical	Design Basis
(E) BS-1,1	(E) VRF-1	First	9	10	40.3	24.6	208V / 1-ph / MCA=1.0A	Daikin BS10Q54
(E) BS-2,1	(E) VRF-2	First	12	12	28.2	14.5	208V / 1-ph / MCA=1.2A	Daikin BS12Q54
(E) BS-3,1	(E) VRF-3	First	7	8	31.3	19.9	208V / 1-ph / MCA=0.8A	Daikin BS8Q54
(E) BS-1,2	(E) VRF-1	Second	5	8	13.4	9.5	208V / 1-ph / MCA=0.8A	Daikin BS8Q54
(E) BS-2,2	(E) VRF-2	Second	5	6	19.7	22.4	208V / 1-ph / MCA=0.6A	Daikin BS6Q54
(E) BS-2,3	(E) VRF-3	Second	6	12	14.2	21.0	208V / 1-ph / MCA=1.2A	Daikin BS12Q54
(E) BS-1,3	(E) VRF-1	Third	12	12	16.7	23.2	208V / 1-ph / MCA=1.2A	Daikin BS12Q54
(E) BS-2,3	(E) VRF-2	Third	10	10	17.0	21.2	208V / 1-ph / MCA=1.0A	Daikin BS10Q54
(E) BS-3,3	(E) VRF-3	Third	10	10	28.7	32.5	208V / 1-ph / MCA=1.0A	Daikin BS10Q54

HEAT PUMP INDOOR UNIT SCHEDULE

Symbol	Room Number	Room Name	Description	Make / Model	Heat Pump	BC Unit	Heating MBH (1)	Cooling MBH (2)	Electrical	Notes
IDU-151	220	Conference Room	4-way Ceiling Cassette	Daikin FXZQ05	VRF-1	BS-1,2	0.8	1.4	208V / 1-ph / MCA=0.3A	Provide condensate pump
IDU-152	221/222	Office	4-way Ceiling Cassette	Daikin FXZQ05	VRF-1	BS-1,2	3.5	2.3	208V / 1-ph / MCA=0.3A	Provide condensate pump
IDU-153	223	Office	4-way Ceiling Cassette	Daikin FXZQ07	VRF-1	BS-1,2	2.8	1.4	208V / 1-ph / MCA=0.4A	Provide condensate pump
IDU-154	224	Office	4-way Ceiling Cassette	Daikin FXZQ07	VRF-1	BS-1,2	2.8	1.4	208V / 1-ph / MCA=0.4A	Provide condensate pump
IDU-155	225/226	Office	4-way Ceiling Cassette	Daikin FXZQ07	VRF-2	BS-2,2	6.8	2.6	208V / 1-ph / MCA=0.4A	Provide condensate pump
IDU-156	227	Office	4-way Ceiling Cassette	Daikin FXZQ07	VRF-2	BS-2,2	0.1	0.8	208V / 1-ph / MCA=0.4A	Provide condensate pump
IDU-157	229	Activity Space	4-way Ceiling Cassette	Daikin FXZQ09	VRF-2	BS-2,2	4.5	8.9	208V / 1-ph / MCA=0.4A	Provide condensate pump

(1) Heating Indoor Tempertaure = 70Fdb / 59Fwb

(2) Cooling Indoor Tempertaure = 72Fdb / 60Fwb

VENTILATION EQUIPMENT

Symbol	Description	Grille/Duct Size	Material	Design Basis/Description
SG / EG	Supply and Exhaust Grille	Duct Size	White plastic	Allvent Euro WRC / Adjustable grille with smooth surface

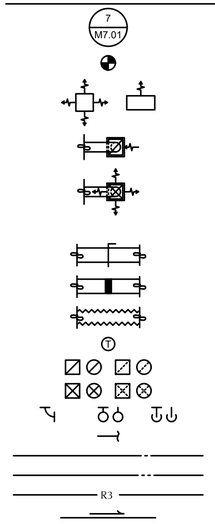
HRU-1 BALANCING SCHEDULE

Number	Name	Supply Air CFM	Exhaust Air CFM
101	Waiting	50	
102	Meeting	80	
103	Reception	20	
105	Work Station	50	
106	Children's Play Area		100
108	Work Station	15	
109	ICWA Attorney	15	
110	Social Services Director	15	
111	ICWA Caseworker	15	
112	ICWA Caseworker	15	
113	ICWA Caseworker	15	
114	Food Pantry		50
115	Transportation Director	15	
116	Cash Room		45
117	Transportation Manager	15	
118	Dispatch	15	
119	Printer		140
121	Equipment		70
127	Women's Restroom		170
128	Men's Restroom		170
131	R.D. Director	15	
132	R.D. Work/Office	30	
133	R.D. Small Meeting	60	
134	Classroom B	240	
135	Classroom A	240	
136	Maintenance Office		125
137	STA Storage	30	
138	Janitor		150
141	IT/Storage	40	
142	IT	30	
143	Workstations	50	
144	Conference	60	
145	Printer		140
146	Storage	15	
147	Office	15	

Number	Name	Supply Air CFM	Exhaust Air CFM
202	Conference	100	
203	Shared Office	30	
204	Storage		60
200	Reception	30	
202	Conference	100	
203	Break/Kitchen		50
204	Work Room		50
206	Office	15	
207	Office	15	
208	Office	15	
209	Office	15	
210	Office	15	
211	Ex. Office	15	
212	Office	15	
213	Shared Office	15	
214	Shared Office	15	
215	Office	15	
216	Office	15	
217	Office	15	
218	Office	15	
220	Conference Room	100	
221/222	Office	30	
223	Office	15	
224	Office	15	
225/226	Office	30	
227	Office	15	
228	Storage		50
229	Activity Space	75	100
229	Activity Space	75	100
232	Men's Restroom		170
231	Women's Restroom		170
233	Janitor		60
301	Reception	35	
305	Admin Services Director	15	
306	Shared Files	60	

Number	Name	Supply Air CFM	Exhaust Air CFM
307	General Manager	15	
308	Finance	15	
309	Conference	75	
310	Grant Writer	15	
311	Accounts	15	
312	Payroll Office	15	
313	Office	15	
314	Office	15	
316a	Kitchen		125
316b	Break Room		125
317	Board Room	205	
318	Work Room		120
317	Office	15	
318	Office	15	
342	Janitor		40
340	Women's Restroom		170
341	Men's Restroom		170
341	Office	15	
342	Office	15	
343	Office	15	
344	Office	30	
345	Office	15	
347	Two-person Office	30	
362	Open Office	60	
340	Office	15	
346	Office	15	
348	Office	15	
350	Two-person Office	30	
351	Office	15	
352	Office	15	
355	Storage		120
363	Open	45	
353	Office	15	
Totals		2,840	2,840

SYMBOLS & ABBREVIATIONS



7/M7.01	DETAIL REFERENCE
	POINT OF CONNECTION OR REMOVAL
IDU	INDOOR UNIT
	RETURN/EXHAUST GRILLE
	SUPPLY DIFFUSER, ARROWS SHOW THROW PATTERN
8/60	ROUND DUCT SIZE/CFM
	BALANCING VOLUME DAMPER
FD/FSD	FIRE DAMPER/FIRE SMOKE DAMPER
	FLEXIBLE DUCT
	THERMOSTAT
	RETURN/EXHAUST DUCT UP, DOWN
	SUPPLY DUCT UP, DOWN
	ELBOW PLAN, UP , DOWN
	LINE BREAK
CW	COLD WATER
HW	HOT WATER
R3	3-PIPE REFRIGERANT
	PITCHED DOWN

A	AMPS
BS	BRANCH SELECTOR BOX
CFM	CUBIC FEET PER MINUTE
COP	COEFFICIENT OF PERFORMANCE
DF	DRINKING FOUNTAIN
DN	DOWN
DOAS	DEDICATED OUTDOOR AIR SYSTEM
(E)	EXISTING TO REMAIN
EF	EXHAUST FAN
EG	EXHAUST GRILLE
ESP	EXTERNAL STATIC PRESSURE
FD	FLOOR DRAIN
FD	FIRE DAMPER
Fdb	DRY BULB TEMPERATURE FAHRENHEIT
Fwb	WET BULB TEMPERATURE FAHRENHEIT
FSD	FIRE SMOKE DAMPER
HP	HEAT PUMP
HP	HORSE POWER
HRU	HEAT RECOVERY UNIT
HVAC	HEATING, VENTILATION AND AIR CONDITIONING
IDU	INDOOR UNIT
KW	KILOWATT
L	LAVATORY
MBH	1000 BTU PER HOUR
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
PH	PHASE
S	SINK
SA	SUPPLY AIR
SD	SUPPLY DIFFUSER
SS	SERVICE SINK
TYP	TYPICAL
V	VOLTS
(X)	REMOVE
U	URINAL
VRF	VARIABLE REFRIGERANT FLOW
WC	WATER CLOSET
WHA	WATER HAMMER ARRESTOR
WSPR	WET SPRINKLER

DRAWING INDEX

SCOPE OF WORK

A. General
1. Provide all work associated with demolition and construction of heating, ventilating and air-conditioning systems for the Second Floor Expansion of the Siginaka Building.

B. Demolition: Includes, but is not limited to, the following.
1. Remove and/or relocate existing heat pump indoor units including, but not limited to, indoor units, refrigerant piping, condensate drain piping and electrical circuits.

C. HVAC Systems
1. VRF Heat Pump System: The building is served by three VRF heat pump systems. Install new and relocated indoor units and connect them to the respective VRF heat pump unit. Provide condensate drains.
2. DOAS: The building is served by a dedicated outdoor air system (DOAS) consisting of a roof-mounted heat recovery unit, vertical supply and return duct risers, and ductwork, diffusers and grilles serving the occupied areas. Provide ventilation and exhaust ductwork in the project area.

D. Testing, Adjusting and Balancing: Adjust all DOAS supply and exhaust airflows for the entire building. Adjust supply and return fan speed so dampers in longest path are mostly open. The building will be occupied during normal business hours.

E. Control Systems: Update the existing integral VRF controller with the new indoor units and program occupied and unoccupied periods and temperature setpoints for each zone.

F. Code Compliance: Comply with the approved edition of the following codes:
1. International Building Code - 2018
2. International Mechanical Code - 2018
3. International Fire Code - 2018
4. Uniform Plumbing Code - 2018
5. NFPA 70 National Electric Code - 2017

GENERAL NOTES

A. General
1. Existing Conditions: The design is based on Owner drawings, has not been fully field-verified, and does not represent as-built conditions. Field verify all information required for construction including pipe, duct, equipment sizes and locations and control and appurtenance locations prior to start of work.
2. Outages: Maintain existing services at all times. Coordinate mechanical system outages with the Owner on acceptable outage periods.
3. Cutting and Patching: Cut, patch and restore surfaces to match adjacent surfaces as required for construction. No cutting of structural members or structure is allowed without Owner approval.
4. Penetrations: Sleeve and firestop all mechanical penetrations through fire rated walls.
5. Installation: Install equipment per the manufacturer's installation instructions. Submit conflicts with the contract documents prior to installation.
   a. Coordinate the location of mechanical systems with existing and new work, rated assemblies, construction phasing and structural requirements.
   b. Arrange work to provide workable access to serviceable or operable equipment by a person standing on the floor. Provide access doors for concealed items, rated for the assembly.
6. Cut and Patch: Repair all damaged surfaces, insulation, ceiling tiles, and fire-proofing. Plug, patch and repair holes and penetrations of surfaces. Refinish surfaces and repair assemblies to match adjacent finishes and retain fire, temperature, and/or smoke ratings. Seal room penetrations to maintain pressure relationships between spaces.
7. Seismic Restraints: Piping and equipment shall be supported based on seismic category 'D'. Submit seismic support systems designed by a licensed structural engineer.

B. Demolition
1. Remove items where indicated including supports, brackets, stems, hangers, conduit, conductors, devices, appurtenances and accessories.
2. All rises and drops in piping are not necessarily shown. Layout routing and coordinate work with other trades before installation.

C. HVAC Systems
1. Provide hard duct elbows at equipment, diffuser and grille connections. Diffuser and grille neck size shall be the same size as connecting duct.
2. Connect ductwork to diffusers and grilles with a maximum 4' long flexible duct. Support and flex duct from sags and kinking.
3. Do not install flexible duct connections above inaccessible ceilings
4. Locate balancing dampers above accessible ceilings where possible.
5. Coordinate diffuser and grille locations with light fixtures and in accordance with ceiling patterns as shown on the architectural reflected ceiling plans.
6. All rises and drops in ductwork are not necessarily shown. Layout routing and coordinate work with other trades before construction.
7. Install balancing dampers on each diffuser and grille.

D. Control Systems
1. Coordinate temperature sensor locations with other trades, building elements, and electrical switches. Adjust location as required to avoid conflicts.
2. Mount temperature sensors 48" above finished floor.

NOTE: 11"x 17" PRINT IS HALF SIZE

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03/05/2024

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CONSTRUCTION DOCUMENTS

2nd Floor STA Office Renovation

SITKA TRIBE OF ALASKA

No.	Description	Date

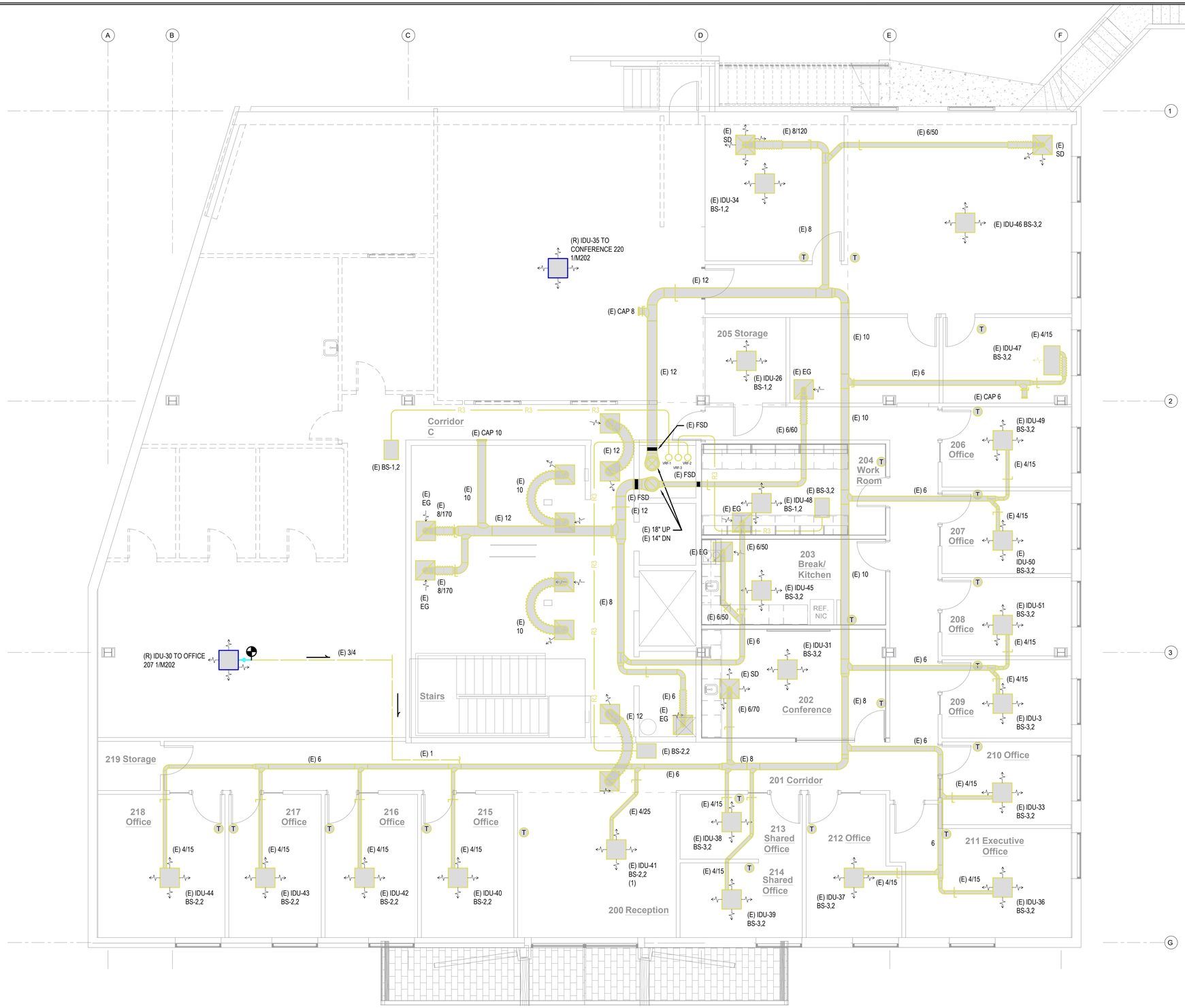
SHEET TITLE:
Schedules, Scope of Work, General Notes

DATE: 03/05/2024

DRAWN: JR/KB

CHECKED: JR

SHEET NO.
M101



1 M201 SECOND FLOOR DEMOLITION PLAN

SCALE: 0 2' 4' 8' 16'

PROJECT NORTH

NOTE: 11"x 17" PRINT IS HALF SIZE

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CONSTRUCTION DOCUMENTS

2nd Floor STA Office Renovation

SITKA TRIBE OF ALASKA

No.	Description	Date

SHEET TITLE:
Second Floor Demolition Plan

DATE: 03/05/2024

DRAWN: JR/KB

CHECKED: JR

SHEET NO.
M201

Drawing Notes

(1) Relocate IDU to align with ceiling grid.

1 M202 SECOND FLOOR PLAN

SCALE: 0 2' 4' 8' 16'

PROJECT NORTH

NOTE: 11"x 17" PRINT IS HALF SIZE

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CONSTRUCTION DOCUMENTS

2nd Floor STA Office Renovation

SITKA TRIBE OF ALASKA

No.	Description	Date

SHEET TITLE: Second Floor Plan

DATE: 03/05/2024

DRAWN: JR/KB

CHECKED: JR

SHEET NO. M202

SPECIFICATIONS

SUMMARY

A. Furnish all labor, materials, equipment, supervision of labor and performance of all operations required to completely install a complete and satisfactorily working, code compliant installation.

B. The drawings are generally diagrammatic and are intended to show plumbing details in a schematic fashion. Exact locations are not shown unless so indicated or specifically dimensioned.

SUBMITTALS

A. VRF Heat Pump: Provide revised product selection reports for the entire VRF heat pump system.

B. Training: Provide training on the VRF indoor units and thermostat operation to the occupants.

ESCUTCHEONS

A. Piping with Fitting or Sleeve Protruding from Wall: One-piece, deep-pattern type.

B. Chrome-Plated Piping: One-piece, cast-brass with polished, chrome-plated finish or stainless steel.

C. Insulated Piping: One-piece, stamped-steel type.

D. Bare Piping at Wall and Floor Penetrations in Finished Spaces: One-piece, cast- brass with polished, chrome-plated finish or stainless steel.

E. Bare Piping at Ceiling Penetrations in Finished Spaces: One-piece, cast-brass with polished, chrome-plated finish or stainless steel.

F. Bare Piping in Unfinished Service Spaces: One-piece, cast-brass type with polished, chrome-plated finish or stainless steel.

G. Bare Piping in Equipment Rooms: One-piece, cast-brass brass type with polished, chrome-plated finish or stainless steel.

HANGERS AND SUPPORTS

A. Adjustable, Steel Clevis Hangers (MSS Type 1): For suspension of noninsulated or insulated, stationary pipes 1/2 inch to 30 inch.

B. Hanger Rods: Continuous-thread rod, nuts, and washer made of carbon steel.

PIPE LABELS

A. Pipe Labels

1. Locations: Locate pipe labels where piping is exposed or above accessible ceilings in finished spaces; machine rooms; accessible maintenance spaces such as shafts, tunnels, and plenums; and exterior exposed locations as follows:
2. Pretensioned Pipe Labels: Precoiled, semirigid plastic formed to cover full circumference of pipe and to attach to pipe without fasteners or adhesive.
3. Self-Adhesive Pipe Labels: Printed plastic with contact-type, permanent-adhesive backing.

B. Flow Arrows: Arrows shall be used to indicate direction of flow in pipes, including pipes where flow is allowed in both directions. Integral with piping-system service lettering to accommodate both directions or as separate unit on each pipe label to indicate flow direction.

TESTING, ADJUSTING, AND BALANCING

A. Adjust and balance the complete HRU-1 system. Measure indoor unit airflow by velocity measurement across duct cross-section. Set the fan speed so dampers in furthest outlet and inlet are no more than 25% closed.

B. Qualification Data: Submit documentation that the TAB specialist is certified by AABC or is a registered mechanical engineer with 5-years TAB experience. TAB Technician shall be an employee of the TAB specialist

C. Report: Provide a Certified TAB report including fan curves, measured values and equipment data. Indicate deficiencies in systems that would prevent proper testing, adjusting, and balancing of systems and equipment to achieve specified performance.

REFRIGERANT PIPING

A. Piping Between Branch Selector Boxes and Indoor Units: Soft-drawn copper tubes with flare fittings insulated with 1/2" thick closed cell, flexible elastomeric cellular rubber insulation.

B. Refrigerant: R-410A as defined in ASHRAE Std 34.

C. Diaphragm Packless Valves: UL listed, globe or angle pattern, forged brass body and bonnet, phosphor bronze and stainless steel diaphragms, rising stem and handwheel, stainless steel spring, nylon seat disc, solder or flared ends, with positive backseating; for maximum working pressure of 500 psi and maximum temperature of 275 degrees F.

D. Ball Valves: Two piece bolted forged brass body with teflon ball seals and copper tube extensions, brass bonnet and seal cap, chrome plated ball, stem with neoprene ring stem seals; for maximum working pressure of 500 psi and maximum temperature of 300 degrees F.

E. All valves used with VRF refrigeration system must meet requirements of heat pump manufacturer. Coordinate with manufacturer.

HRU DUCTS

A. Ducts: 2 inch w.g. pressure class, galvanized steel. Galvanized Steel for Ducts: Hot-dipped galvanized steel sheet, ASTM A653/A653M FS Type B, with G60/Z180 coating. Minimum 24 gage material for ductwork. Minimum of 20 gage material for plenums.

B. Sealant: UL listed vinylacrylic or copolymer based duct sealer. Similar to Durodyne DDS-181, Uni-mastic 181.

C. Hanger Rod: ASTM A36/A36M; steel, galvanized; threaded both ends, threaded one end, or continuously threaded.

COMMISSIONING

A. Systems: Commission the new indoor units and HRU-1 balancing.

B. Prerequisites: Submit the following to the CxA prior to functional performance tests.

1. Approved O&M Manuals
2. Settings: Program the system in accordance with the Owner's preferences.
3. Testing, Adjusting, and Balancing (TAB): Confirm that testing, adjusting, and balancing procedures have been completed. Submit TAB report.
4. Controls: Verify the operation of the control systems.

C. Functional Performance Tests: Provide a final commissioning verification process site visit to verify the functional performance of the systems.

1. Demonstrate the performance of the equipment and systems to the Commissioning Authority (CxA). The scope of functional performance testing covers the entire installation, from central equipment through distribution of services to each space. It includes measured capacities, effectiveness of operation, and all control functions.
2. Service technicians for the VRF heat pump and HRU are required to be present on-site.
3. The CxA will oversee, witnesses, and document the functional testing of all equipment and systems. The contractor executes the tests to verify proper operation of the systems. The functional test requirements provide a guideline for performance of the tests.
4. Verify the operation of the systems under all potential operating modes. This will include varying setpoints and conditions to demonstrate operation of the systems under normally expected conditions throughout the system life.
5. During functional performance testing of a system, a failure in performance of a part of the system or of a component may be revealed. Any performance deficiencies must be evaluated to determine the cause and whether they are part of the contractual obligations. After necessary corrective measures are completed, repeat the necessary functional performance tests.
6. Functional Testing Procedures
   a. VRF Heat Pump System - Verify the following:
      1) VRF Terminal Units: Change inputs or setpoints and observe proper response.
      2) Acceptance Criteria: For the conditions, sequences and modes tested, the boilers, integral components and related equipment respond to varying loads and changing conditions and parameters appropriately as expected, as specified and according to acceptable operating practice.
   b. Test, Adjustment, and Balancing (TAB) - Verify the following:
      1) Purpose. The purpose of this test is to spot check the TAB work to verify that it was done in accordance with the contract documents and acceptable practice and that the TAB report is accurate.
      2) Acceptance Criteria: Failure of an item is defined as follows:
         a) For airflow of supply and return: a deviation of more than 10% of instrument reading.
         b) For temperatures: a deviation of more than 1F

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CONSTRUCTION DOCUMENTS

2nd Floor STA Office Renovation

SITKA TRIBE OF ALASKA

No.	Description	Date

SHEET TITLE:
Specifications

DATE: 03/05/2024

DRAWN: JR/KB

CHECKED: JR

SHEET NO.
M301

LIGHTING SYMBOLS

	RECESSED LUMINAIRE, 2'x4'
	RECESSED LUMINAIRE, 2'x2'
E2	CEILING MOUNTED EXIT SIGN, ARROW AS INDICATED, TYPE E2
E1	WALL MOUNTED EXIT SIGN, ARROW AS INDICATED, TYPE E1

WIRING AND LIGHTING CONTROL DEVICE SYMBOLS

S	SINGLE POLE SWITCH
S_3	3-WAY SWITCH
S_4	4-WAY SWITCH
D2	DIGITAL 2-CHANNEL DIMMER SWITCH + 0-10V W/ CONTROL POWER PACK
	DUPLEX RECEPTACLE
	DOUBLE DUPLEX RECEPTACLE
GFCI	GFCI DOUBLE DUPLEX RECEPTACLE
GFCI	GROUND-FAULT CIRCUIT INTERRUPTER (GFCI) DUPLEX RECEPTACLE
IG	ISOLATED-GROUND DUPLEX RECEPTACLE
	SPECIAL PURPOSE RECEPTACLE; NEMA TYPE AS INDICATED
	TELE-POWER SERVICE POLE; 4 TELECOM JACKS UON

POWER SYMBOLS

J	JUNCTION BOX/EQUIPMENT CONNECTION
J EL	ELECTRIC LOCK POWER SUPPLY PROVIDED BY DOOR HARDWARE
J MDH	MAGNETIC DOOR HOLDER CONNECTION
J NAC	NOTIFICATION APPLIANCE CIRCUIT EXPANSION PANEL CONNECTION
	BRANCH-CIRCUIT PANELBOARD; RECESSED, SURFACE
	DISTRIBUTION PANELBOARD
NL01-2,4	BRANCH CIRCUIT HOME RUN TO PANELBOARD; NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS, PANEL AND CIRCUIT AS SHOWN

FIRE ALARM SYMBOLS

NAC	NOTIFICATION APPLIANCE CIRCUIT EXPANSION PANEL
F	MANUAL FIRE ALARM BOX
?	SMOKE DETECTOR
	STROBE
	HORN/STROBE
MDH	MAGNETIC DOOR HOLDER - EXISTING UON.

SIGNALING SYMBOLS - COMMUNICATIONS

4	TELECOMMUNICATIONS OUTLET; 2 JACKS UON
	FLOOR BOX TELECOMMUNICATIONS OUTLET; QTY OF JACKS INDICATED
	TELECOMMUNICATIONS OUTLET WITH BLANK DEVICE PLATE
PAP	PUBLIC ADDRESS SYSTEM PANEL
S	CONE-TYPE CEILING LOUDSPEAKER

SIGNALING SYMBOLS - SECURITY

CR	CARD READER
DA	DOOR ACTUATOR PROVIDED WITH DOOR HARDWARE, PROVIDE MOUNTING BOX FLUSH WITH EXTERIOR WALL.
DC	LOW VOLTAGE DOOR CONTACT PROVIDED BY DOOR HARDWARE
DR	DOOR OPERATOR PROVIDED BY DOOR HARDWARE
EL	LOW VOLTAGE ELECTRIC LOCK PROVIDED BY DOOR HARDWARE
LX	LOW VOLTAGE LATCH SECURE CONTACT PROVIDED BY DOOR HARDWARE
RX	LOW VOLTAGE REQUEST TO EXIT CONTACT PROVIDED BY DOOR HARDWARE

ABBREVIATIONS

#	NUMBER
(D)	DEMOLISH
(E)	EXISTING
(N)	NEW
(S)	SALVAGE
+C	ABOVE COUNTER
+XX	DIMENSIONED HEIGHT XX INCHES AFF
A	AMPERES
AC	ALTERNATING CURRENT
AFF	ABOVE FINISHED FLOOR
AIC	AMPS INTERRUPTING CAPACITY
AMP	AMPERES
APPX	APPROXIMATE
ARCH	ARCHITECTURAL
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AV, A/V	AUDIO/VIDEO
BCU	BARE COPPER WIRE
BLDG	BUILDING
BPB	BRANCH-CIRCUIT PANELBOARD, CB BRANCHES
C	CONDUIT
C/L	CENTERLINE
CB	CIRCUIT BREAKER
CFOI	CONTRACTOR FURNISH OWNER INSTALL
CKT	CIRCUIT
CL	CLASS
CLG	CEILING
CNDR	CONDUCTOR
CTRL	CONTROL
CU	COPPER
DIA	DIAMETER
DIM	DIMENSION
DISC	DISCONNECT
DIST	DISTRIBUTION
DIV	DIVISION
DP	DISTRIBUTION PANELBOARD
DWG	DRAWING
E	EAST
EGB	EQUIPMENT GROUND BUS
EGC	EQUIPMENT GROUNDING CONDUCTOR
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EST	ESTIMATED
FA	FIRE ALARM
FU	FUSE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GEC	GROUNDING ELECTRODE CONDUCTOR
GFCI	GROUND-FAULT CIRCUIT INTERRUPTER (5mA)
GND	GROUND OR GROUNDED
IBC	INTERNATIONAL BUILDING CODE
IES	ILLUMINATING ENGINEERING SOCIETY
IFC	INTERNATIONAL FIRE CODE
IG	ISOLATED GROUND
IGB	ISOLATED GROUND BUS
IGC	ISOLATED GROUND CONDUCTOR
JB	JUNCTION BOX
KVA	KILOVOLT AMPERES
L	LINE
LC	LIGHTING CONTACTOR
LED	LIGHT EMITTING DIODE
LTG	LIGHTING
LV	LOW VOLTAGE
MAN	MANUAL
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MDH	MAGNETIC DOOR HOLDERS
MED	MEDIUM
MIN	MINIMUM
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MTD	MOUNTED
N	NEUTRAL, NORTH
NAC	NOTIFICATION APPLIANCE CIRCUIT (FIRE ALARM)
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE; NFPA 70

ABBREVIATIONS

NECA	NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NESC	NATIONAL ELECTRICAL SAFETY CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
OC	ON CENTER
OFCI	OWNER FURNISHED CONTRACTOR INSTALL
OFOI	OWNER FURNISHED OWNER INSTALL
P	POLE
PF	POWER FACTOR
PH	PHASE
PNL	PANEL(BOARD)
PRI	PRIMARY
RCPT	RECEPTACLE
REQD	REQUIRED
REV	REVISION, REVERSE
RM	ROOM
RMC	RIGID METAL CONDUIT (HOT-DIPPED GALVANIZED)
RU	RACK UNIT
S	SOUTH
SB, SWBD	SWITCHBOARD
SEC	SECONDARY
SHT	SHEET (REFER TO DRAWING)
SN	SOLID NEUTRAL
SPD	SURGE PROTECTION DEVICE
SPDT	SINGLE POLE DOUBLE THROW
SPEC	SPECIFICATION
SPST	SINGLE POLE SINGLE THROW
SW	SWITCH
SWD	SWITCHED
SWN	SWITCHED NEUTRAL
TBB	TELECOMMUNICATIONS BONDING BACKBONE CABLE
TEBB	TELECOMMUNICATIONS BACKBOARD
TYP	TYPICAL
UL	UNDERWRITERS' LABORATORIES
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLTS
VA	VOLT AMPERES
W	WATT, WEST or WIRE
W/	WITH
W/O	WITHOUT
WH	WATTHOUR
XFMR	TRANSFORMER
xPyT	x POLE y THROW (x and y indicate quantity)

GENERAL ELECTRICAL NOTES

1. EXISTING BRANCH CIRCUITS FOR RECEPTACLES AND LIGHTING ARE GENERALLY UNDERSTOOD FROM RECORD DOCUMENTS TO BE SUPPLIED FROM EITHER OF TWO OR MORE PANELBOARDS ON EACH FLOOR. CONTRACTOR SHALL TRACE BRANCH CIRCUITS. AT LEAST ONE PANEL PER FLOOR SUPPLIES EXISTING ISOLATED GROUND RECEPTACLES. CONTRACTOR SHALL REUSE EXISTING BRANCH CIRCUITS AND SUPPLEMENT WITH NEW WHERE REQUIRED TO SUPPLY EXISTING AND NEW DEVICES SHOWN ON THE DRAWINGS. SEE EXHIBIT (ORIGINAL) DESIGN DRAWINGS FOR ADDITIONAL INFORMATION.

2. EXISTING LIGHTING IN OPEN AREAS USE AN OBSOLETE FLEXIBLE MC-CABLE AND PLUG-TYPE CONNECTOR SYSTEM WHICH SHALL NOT BE USED. EXISTING LIGHTING CIRCUITS FROM SUPPLYING JUNCTION BOXES SHALL BE EXTENDED TO NEW FIXTURES WITH MC CABLE OR FLEXIBLE CONDUIT AND WIRE.

3. CONTRACTOR CIRCUITING. THE FOLLOWING BRANCH CIRCUIT RULES SHALL BE APPLIED DURING INSTALLATION:

   A. MAXIMUM OF 6 GENERAL USE DUPLEX RECEPTACLES PER CIRCUIT WHEN SERVING OFFICE AREAS, UNLESS OTHERWISE NOTED.

   B. MAXIMUM OF 8 DUPLEX RECEPTACLES PER CIRCUIT WHEN SERVING CORRIDORS AND COMMON SPACES, UNLESS OTHERWISE NOTED.

   C. ISOLATED GROUND RECEPTACLES SHALL CONTINUE TO HAVE A SEPARATE GROUND CONDUCTOR. NEW NON-ISOLATED GROUND RECEPTACLES ADDED TO AN ISOLATED GROUND CIRCUIT, DO NOT HAVE TO EXTEND THE SEPARATE NEUTRAL TO THE DEVICE.

   D. SOME EXISTING BRANCH CIRCUITS USE SHARED NEUTRALS. WHERE NEUTRALS ARE SHARED, INSTALL HANDLE TIES IAW NEC. EXTENSIONS FROM EXISTING BRANCH SHARED NEUTRAL INSTALLATIONS AND NEW HOMERUNS TO PANELBOARDS SHALL HAVE SEPARATE NEUTRALS.

   E. LIGHTING SHALL NOT BE MIXED WITH RECEPTACLE BRANCH CIRCUITS.

   F. BRANCH CIRCUITS SHALL BE EXTENDED FROM THE SAME FLOOR AS THE PANELBOARD.

   G. CONTRACTOR TO ENSURE THAT REVISED LOADS DO NOT EXCEED 80% OR RATED LOAD (1920 VA PER 120V, 20 AMP CIRCUIT, 3328 VA PER 208V, 1PHASE 20 AMP CIRCUIT, OR 5757 VA PER 208V, 3-PHASE 20 AMP CIRCUIT).

LINE TYPES

- DEMO WORK
- EXISTING WORK
- NEW WORK

MOUNTING HEIGHT SCHEDULE

* SWITCHES	4'-0"
* CONVENIENCE RECEPTACLES	1'-6"
* TELECOM OUTLETS (VOICE, DATA, VIDEO)	1'-6"
BRANCH PANELS (TOP)	6'-6"
DISCONNECT SWITCHES (TOP)	5'-6"
* MANUAL FIRE ALARM STATIONS	4'-0"
* FIRE ALARM HORN, BELL OR VISUAL SIGNALS (BOTTOM)	6'-8"
* CARD READERS	4'-0"
* DOOR ACTUATOR	3'-6"

MOUNTING HEIGHTS SHALL PREVAIL ON ALL NEW CONSTRUCTION UNLESS OTHERWISE INDICATED.

MOUNTING HEIGHTS ARE TO CENTER AND ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED.

MOUNTING HEIGHTS FOR DEVICES ABOVE COUNTERS REQUIRED TO BE COORDINATED WITH ARCHITECTURAL ELEVATIONS.

MOUNTING HEIGHTS FOR DEVICES FOR EQUIPMENT REQUIRED TO BE COORDINATED WITH ARCHITECTURAL ELEVATIONS.

THESE ARE TYPICAL MOUNTING HEIGHTS. NOT ALL DEVICES ARE NECESSARILY APPLICABLE TO THIS PROJECT.

* MOUNTING HEIGHTS COMPLY WITH ICC/ANSI A117.1-09

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CONSTRUCTION DOCUMENTS

2nd Floor STA Office Renovation

SITKA TRIBE OF ALASKA

No.	Description	Date

SHEET TITLE:
ELECTRICAL LEGEND AND NOTES

DATE: 03/05/24
DRAWN: RDP/JLC
CHECKED: RDP

SHEET NO.
E001

ELECTRICAL SPECIFICATIONS

1. GENERAL REGULATORY REQUIREMENTS
   - A. COMPLY WITH NFPA 70, NATIONAL ELECTRICAL CODE 2017 EDITION; NECA 1, STANDARD FOR GOOD WORKMANSHIP IN ELECTRICAL CONSTRUCTION; AND NATIONAL ELECTRICAL SAFETY CODE.
   - B. ELECTRICAL COMPONENTS, DEVICES, ASSEMBLIES, AND ACCESSORIES ARE REQUIRED TO BE LISTED AND LABELED AS DEFINED IN NFPA 70, ARTICLE 100, BY A TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED USE.
   - C. DELIVER, STORE, PROTECT, AND HANDLE PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. PROTECT PRODUCTS FROM WEATHER.
   - D. ACCEPT PRODUCTS ON SITE IN MANUFACTURER'S PACKAGING. INSPECT FOR DAMAGE. NOTIFY PROJECT MANAGER OF ALL DAMAGED PRODUCTS.
   - E. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY; WHAT IS REQUIRED BY ONE IS AS BINDING AS IF REQUIRED BY ALL.
   - F. DRAWINGS SHOW THE GENERAL LOCATIONS OF THE ELECTRICAL FEATURES ONLY, UNLESS OTHERWISE INDICATED. MAKE MINOR RELOCATIONS AS REQUIRED FOR PROJECT CONDITIONS WHEN NECESSARY TO PRESENT SYMMETRICAL APPEARANCE OR TO AVOID INTERFERENCE WITH OTHER INSTALLATIONS.
   - G. REVIEW AND COORDINATE THIS WORK WITH ALL ASSOCIATED ARCHITECTURAL AND MECHANICAL WORK AND ALL OTHER DRAWINGS AND SPECIFICATIONS. ADJUST THE WORK AS REQUIRED TO COORDINATE WITH OTHER WORK AND BE COMPATIBLE WITH CONDITIONS.
   - H. WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL STATE, FEDERAL, AND OSHA SAFETY REQUIREMENTS.
   - I. CONTRACTOR COORDINATION
     1. CONTRACTOR SHALL COORDINATE START-UP AND ENERGIZING OF ALL ELECTRICAL EQUIPMENT WITH PROJECT MANAGER.
     2. CONTRACTOR SHALL COORDINATE POWER OUTAGES AND DE-ENERGIZING OF ALL EXISTING ELECTRICAL EQUIPMENT WITH PROJECT MANAGER.
2. SUBMITTALS
   - A. SUBMIT FOR APPROVAL AND O&M DOCUMENTATION:
   - B. LIGHTING: LUMINAIRES, DIMMING CONTROL SWITCHES, EMERGENCY POWER SUPPLY.
   - C. POWER: PRODUCT DATA: USB RECEPTACLES, FLOOR AND AV BOXES.
   - D. TELECOM COMMUNICATIONS;
     1. PRODUCT ALL DEVICES, RACK AND ACCESSORIES, CAT 6 CABLES,
     2. SHOP DRAWINGS SHOWING ADDED ALL OUTLETS, LABELING AND RACK ELEVATIONS.
     3. SUBMIT TEST REPORTS ON ALL CABLE INSTALLATIONS.
   - E. FIRE ALARM:
     1. PRODUCT ALL DEVICES,
     2. UPDATED SHOP DRAWINGS SHOWING DEVICES, BATTERY AND VOLTAGE DROP. SUBMIT TO CITY FOR APPROVAL AFTER ENGINEERING APPROVAL
     3. TEST REPORT
   - F. PUBLIC ADDRESS:
     1. PRODUCT DATA: PA, POWER SUPPLY, ACCESSORIES AND SPEAKERS
     2. SHOP DRAWINGS: WIRING DIAGRAMS
     2. TEST REPORT WITH SHCEDULE OF SPEAKER TAPS.
   - G. OPERATIONS AND MAINTENANCE DATA: PRODUCT MATERIALS SUBMITTED, INCLUDING FIELD CHANGES, SHOP DRAWINGS; AND TEST RESULTS.
4. DEMOLITION
   - A. EXISTING ELECTRICAL CONDITIONS BASED ON AS-BUILT DOCUMENTS AND LIMITED FIELD OBSERVATION BY THE ENGINEER. CONTRACTOR SHALL FIELD VERIFY.
   - B. DEMOLISH ELECTRICAL EQUIPMENT ON THE DEMOLITION PLANS SHOWN IN DASHED LINES AND ALL ASSOCIATED CONDUCTORS AND RACEWAY, UNLESS OTHERWISE INDICATED.
   - C. ELECTRICAL EQUIPMENT ON THE DEMOLITION PLAN SHOWN IN THIN SOLID LINES INDICATES EXISTING TO REMAIN.
   - D. RECONNECT AND LABEL EXISTING BRANCH CIRCUITS NOT BEING REMOVED WHICH PASS THROUGH, OR CONNECT INTO, THE PROJECT AREA.
   - E. RACEWAY MAY BE REUSED IN PLACE IF NOT RENDERED UNUSABLE DUE TO OTHER DEMOLITION AND COMPLIES WITH CONTRACT DOCUMENTS. REUSED RACEWAY SHALL BE IN LIKE-NEW, OR REPAIRED TO LIKE-NEW CONDITION BEFORE INSTALLING CONDUCTORS.
   - F. REMVOE UNUSED LOW VOLTAGE WIRING WHERE ENCOUNTERED AS ABAONDED IN CEILING OR WHERE DEVICES/OUTLETS ARE BEING DEMOLISHED.
   - G. REMOVE RACEWAYS COMMUNICATIONS AND JUNCTIONS BOXES WHERE INDICATED ON PLANS TO ACCESSIBLE CEILING LOCATION.
   - H. SALVAGE SHALL MEAN REMOVE WITHOUT DAMAGE DURING DEMOLITION AND REUSE DURING NEW CONSTRUCTION.
   - I. ELECTRICAL EQUIPMENT REMOVED AND DEEMED UNUSABLE BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE PROPERLY DISPOSED OF. EQUIPMENT DEEMED USABLE BY THE OWNER SHALL BE DELIVERED WITHOUT DAMAGE TO A LOCATION DESIGNATED BY THE OWNER, UNLESS OTHERWISE INDICATED.
1. CONDUCTORS
   - A. CONDUCTOR MATERIAL: COPPER. SOLID FOR NO. 10 AWG AND SMALLER; STRANDED FOR NO. 8 AWG AND LARGER.
   - B. INSULATION AND APPLICATION
     - **1.** BRANCH CIRCUITS: HEATED SPACES SHALL BE TYPE THHN-2-THWN-2 OR XHHW-2, UNHEATED AND EXTERIOR LOCATIONS SHALL BE TYPE XHHW-2; SINGLE CONDUCTORS IN RACEWAY.
   - C. METAL-CLAD CABLE, TYPE MC
     1. CONDUCTORS: COPPER, COMPLYING WITH ASTM B 3 FOR BARE ANNEALED COPPER AND WITH ASTM B 8 FOR STRANDED CONDUCTORS.
     2. CONDUCTOR INSULATION: TYPE TFN/THHN/THWN-2: COMPLY WITH UL 83.
     3. ARMOR: STEEL, INTERLOCKED.
     4. JACKET: PVC APPLIED OVER ARMOR.
   - D. INSTALLATION
     1. CONCEAL CABLES IN FINISHED WALLS, CEILINGS, AND FLOORS, UNLESS OTHERWISE INDICATED.
     2. MINIMUM CONDUCTOR SIZE FOR BRANCH CIRCUITS: NO. 12 AWG.
        - a. USE NO. 10 AWG MINIMUM FOR 15 OR 20 AMPERE, 120 VOLT BRANCH CIRCUITS LONGER THAN 65 FEET BUT NOT GREATER THAN 100 FEET.
        - **b.** USE NO. 8 AWG MINIMUM FOR 15 OR 20 AMPERE, 120 VOLT BRANCH CIRCUITS LONGER THAN 100 FEET UNLESS OTHERWISE INDICATED.
   - E. MC CABLE MAY BE USED BETWEEN OUTLET AND DEVICE BOXES FOR BRANCH CIRCUITS CONCEALED IN WALLS
   - F. FIELD QUALITY CONTROL: AFTER INSTALLING CONDUCTORS AND CABLES AND BEFORE ELECTRICAL CIRCUITRY HAS BEEN ENERGIZED, TEST FOR UNINTENDED OPENS, SHORTS, AND GROUNDS.
2. GROUNDING AND BONDING
   - A. INSULATED CONDUCTORS: COPPER WIRE OR CABLE INSULATED FOR 600 V UNLESS OTHERWISE INDICATED.
   - B. CONNECTORS: LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION FOR APPLICATIONS IN WHICH USED, AND FOR SPECIFIC TYPES, SIZES, AND COMBINATIONS OF CONDUCTORS AND OTHER ITEMS CONNECTED.
   - C. INSTALLATION
     1. PROVIDE INSULATED EQUIPMENT GROUNDING CONDUCTORS WITH ALL FEEDERS AND BRANCH CIRCUITS. TERMINATE EACH END ON SUITABLE LUG, BUS OR BUSHING. SIZE EQUIPMENT GROUNDING CONDUCTORS IN ACCORDANCE WITH NEC, UNLESS OTHERWISE INDICATED, BUT NOT SMALLER THAN NO. 12 AWG.
     2. BOND PUBLIC ADDRESS EQUIPMENT DEVICES AS SHOWN.
5. RACEWAY
   - A. EMT: COMPLY WITH ANSI C80.3 AND UL 797 ZINC-COATED STEEL.
   - B. FMC: COMPLY WITH UL 1; ZINC-COATED STEEL.
   - C. FITTINGS FOR METAL CONDUIT: COMPLY WITH NEMA FB 1 AND UL 514B.
   - D. INSTALLATION
     1. INDOOR DRY LOCATIONS: USE EMT UNLESS OTHERWISE INDICATED.
     2. CONCEAL CONDUIT AND EMT OR MC CABLE WITHIN FINISHED WALLS, CEILINGS, AND FLOORS, UNLESS OTHERWISE INDICATED.
     3. MINIMUM RACEWAY SIZE: 1/2-INCH TRADE SIZE.
     4. COMPLETE RACEWAY INSTALLATION BEFORE STARTING CONDUCTOR INSTALLATION.
     5. USE MINIMUM OF 18 INCHES TO MAXIMUM OF 72 INCHES OF FMC FOR CONNECTION TO RECESSED LIGHTING FIXTURES.
6. PANELBOARDS
   - A. BRANCH-CIRCUIT PANELBOARDS, EXISTING OR NEW AS NOTED WITH BOLT-ON CIRCUIT BREAKERS.
   - B. DISTRIBUTION PANELBOARDS: EXISTING.
   - C. SWITCHBOARDS, EXISTING.
   - D. PROVIDE UPDATED PANEL SCHEDULES FOR EACH PANELBOARD MODIFIED BY THIS WORK INCLUDING ROOM NUMBER(S).
   - E. ALL CONDUCTOR TERMINATIONS SHALL BE LISTED AND LABELED FOR WIRE RATED 75 DEG C.
   - F. FIELD QUALITY CONTROL:
     1. PERFORM EACH VISUAL AND MECHANICAL INSPECTION AND ELECTRICAL TEST IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
     2. NEW BREAKERS IN EXISTING PANELS SHALL BE OF THE SAME MANUFACTURER AND LISTED FOR THE EXISTING PANEL, AND SHALL BE OF AN INTERRUPTING CAPACITY SUITABLE TO THE APPLICATION.
7. BOXES
   - A. SHEET METAL OUTLET AND DEVICE BOXES: NEMA OS 1, DEEP TYPE; FOR USE WITH CONCEALED RACEWAYS AND FOR BOXES EXPOSED ON CEILINGS.
   - B. INSTALLATION
     1. OUTLET AND DEVICE BOXES LOCATED BACK TO-BACK ON A COMMON WALL ARE REQUIRED TO BE MOUNTED IN SEPARATE STUD SPACES. THE REQUIRED DEVICE AND OUTLET BOXES INCLUDE BUT ARE NOT LIMITED TO SWITCHES, RECEPTACLES, TELECOMMUNICATION OUTLETS, AND HORN/STROBES.
8. WIRING DEVICES
   - A. STRAIGHT BLADE RECEPTACLES, 125 V, 20A: SPECIFICATION-GRADE, COMPLY WITH NEMA WD 1, NEMA WD 6 CONFIGURATION 5-20R, UL 498, AND FS W-C-596.
   - B. GFCI RECEPTACLES, 125 V, 20A: SPECIFICATION-GRADE, COMPLY WITH NEMA WD 1, NEMA WD 6, UL 498, UL 943 CLASS A, FS W-C-596, AND INCLUDE INDICATOR LIGHT THAT SHOWS WHEN THE GFCI HAS MALFUNCTIONED AND NO LONGER PROVIDES PROPER GFCI PROTECTION.
   - C. SNAP SWITCHES, 120/277 V, 20 A: COMPLY WITH FEDERAL SPEC WS896, NEMA WD 1, AND UL 20.
   - D. FINISHES: FACTORY STANDARD FINISH, UNLESS OTHERWISE INDICATED OR REQUIRED BY NFPA 70 OR DEVICE LISTING. COLOR TO MATCH EXISTING DEVICES.
   - E. DEVICES PLATES SHALL BE NON METALLIC MATCHING EXISTING.
   - F. AV WALL BOXES: MODULAR, FLUSH TYPE 4-GANG IN-WALL ENCLOSURE UP 60" AFF, WITH POWER, DATA AND A/V CAPABILITIES. RECEPTACLE: ONE EACH NEMA WD 6 CONFIGURATION 5-20R. DATA OUTLET: TWO MODULAR KEYED, COLOR CODED RJ-45 JACKS FOR TWISTED PAIR CABLE, CAT 6 COKMPLYING WITH REQUIREMENTS OF EIA/TIA 569B. PROVIDE ACCESSORIES TO INSTALL A DUPLEX OUTLET AND 2 TELECOM JACKS AND 2 BLANK GANGS FOR USER CABLING. PROVIDE A SPARE 1" CONDUIT FROM BLANK GANG TO ABOVE CEILING SPACE BLANK BOXES FOR USER CABLING. PROVIDE BOX MANUFACTURED BY HUBBELL MODEL NSAV124M, WHITE IN COLOR.:
   - G. FLOOR BOXES: THE HUBBELL SYSTEMONE 4-GANG RECESSED RAISED ACCESS FLOOR BOX DELIVERS AV PLUS POWER. THE 4-GANG 5 INCH BOX DEPTH. PROVIDE 2 DUPLEX POWER RECEPTACLES AND SINGLE GANG FOR TELECOM JACK INSTALLATIONS. SUBMIT DIE CAST COVER COLORS FOR SELECTION BY ARCHITECT.
   - H. USB RECEPTACLES: DUPLEX STRAIGHT BLADE RECEPTACLES WITH BUILT IN 2 EACH 2 AMP USB CHARGING PORTS.
   - I. INSTALLATION
     1. ARRANGEMENT OF DEVICES: UNLESS OTHERWISE INDICATED, MOUNT FLUSH, WITH LONG DIMENSION VERTICAL AND WITH GROUNDING TERMINAL OF RECEPTACLES ON TOP. GROUP ADJACENT SWITCHES UNDER SINGLE, MULTIGANG WALL PLATES
     2. FIELD QUALITY CONTROL
     3. GROUND FAULT RECEPTACLES SHALL NOT BE THROUGH WIRED. PROVIDE INTEGRAL PROTECTION AT EACH GROUND FAULT RECEPTACLE LOCATION SHOWN ON THE DRAWINGS.
     4. GFCI TRIP: USING A TEST PLUG TEST FOR TRIPPING VALUES SPECIFIED IN UL 1436 AND UL 943.USING THE TEST PLUG, VERIFY THAT THE DEVICE AND ITS OUTLET BOX ARE SECURELY MOUNTED. THE TESTS SHALL BE DIAGNOSTIC, INDICATING IMPROPER WIRING, DEFECTIVE DEVICES, OR SIMILAR PROBLEMS. CORRECT CIRCUIT CONDITIONS, REMOVE MALFUNCTIONING UNITS AND REPLACE WITH NEW ONES, AND RETEST AS SPECIFIED ABOVE.
     5. LABEL RECEPTACLES WITH PANEL AND CIRCUIT NUMBER PROTECTING CIRCUIT.
9. LIGHTING
   - A. FURNISH AND INSTALL FIXTURES AND LAMPS AS SPECIFIED IN THE LUMINAIRE SCHEDULE ON THE DRAWINGS.
   - B. INSTALLATION
     1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
     2. RECESSED LUMINAIRES: SET LEVEL, PLUMB, AND ADJUST TO ALIGN WITH CEILING GRID LINES AND WITH EACH OTHER. SECURE TO PROHIBIT MOVEMENT.
     3. ADJUST AIMABLE LIGHTING FIXTURES AS SHOWN.
   - C. LIGHTING CONTROLS
     1. WALL DIMMERS: PROVIDE DIGITAL LED WALL DIMMER WITH POWER CONTROL MODULE (ONE PER ROOM) WITH LED WALL SWITCHES IN AREAS INDCATED IN DRAWINGS. DIMMER SHALL MATCH WIRING DEVICE COLOR, 0-10V DIMMING SIGNAL COMPATIBLE WITH LUMINAIRE DRIVER.
10. FIRE DETECTION AND ALARM SYSTEM
   - A. REVISE EXISTING SIMPLEX 4010-9602 FIRE ALARM CONTROL PANEL WITH ADDRESSABLE INITIATION AND ANNUNCIATION DEVICES, DIALER, BATTERIES, ETC., COMPLOYING WITH WITH NFPA 72 AND IFC REQUIREMENTS.
   - B. PROVIDE ANNUNICATION DEVICES:
     1. ADDRESSIBLE AUDIBLE ALARM DEVICES APPROXIMATELY AS SHOWN, TO PROVIDE ACCEPTABLE SOUND LEVELS.
     2. ADDRESSIBLE VISUAL DEVICES IN COMBINATION WITH AUDIBLE OR INDEPENDENT IN ACCORDANCE WITH IFC 907.5.2.3 APPROXIMATELY AS SHOWN.
   - C. ACTIONS TO PREFORM:
     1. UPON INITIATION DEVICE ALARM: SOUND GENERAL ALARM THROUGHOUT FACILITY; DISPLAY ALARM LOCATION AT PANEL; INITIATE DIALER TO OWNER'S DESIGNATED MONITORING SERVICE.
     2. MONITOR HVAC SMOKE DETECTOR FOR ALARM AND RELEASE SMOKE DAMPERS ON EACH FLOOR.
     3. RELEASE DOOR HOLDERS (EXISTING AND/OR NEW) UPON GENERAL ALARM.
   - D. PROVIDE SUBMITTAL DOCUMENTS AND OBTAIN CBS APPROVAL OF INSTALLATION, INCLUDING SHOP DRAWINGS, BATTERY CALCULATIONS AND OTHER REQUIRMENTS BY THE AGENCY. PROVIDE COPY OF SUBMITTAL MATERIALS TO ENGINEER FOR REVIEW.
   - E. SYSTEM SHALL BE TESTED IN ACCORDANCE TO NFPA 72 AND DEMONSTRATED TO AHU.
   - F. PRODUCTS:
     1. NOTIFICATION APPLIANCES, ADDRESSABLE HORN DEVICE: FACTORY-INTEGRATED AUDIBLE (HORN) DEVICE IN A SINGLE-MOUNTING ASSEMBLY, EQUIPPED FOR MOUNTING AS INDICATED AND WITH SCREW TERMIANLS FOR SYSTEM CONNECTIONS. MECHANISM BEHIND A GRILLE. COMPLY WITH UL 464. HORNS SHALL PRODUCE A SOUND-PRESSURE LEVEL OF 90 DBA, MEASURED 10 FEET FROM THE HORN, USING THE CODED SIGNAL PRESCRIBED IN UL 464 TEST PROTOCOL.
     2. NOTIFICATION APPLIANCES, ADDRESSABLE COMBINATION DEVICE: FACTORY-INTEGRATED AUDIBLE (HORN) AND VISUAL/STROBE DEVICES IN A SINGLE-MOUNTING ASSEMBLY, EQUIPPED FOR MOUNTING AS INDICATED AND WITH SCREW TERMINALS FOR SYSTEM CONNECTIONS.
     3. VISIBLE NOTIFICATION APPLIANCES: LED STROBE LIGHTS COMPLY WITH UL 1971, WITH CLEAR OR NORMINAL WHITE POLYCARBONATE LENS MOUNTED ON AN ALUMINUM FACEPLATE. THE WORD "FIRE" IS ENGRAVED IN MINIMUM 1-INCH-HIGH LETTERS ON THE LENS.
        - a. RATED LIGHT OUTPUT: 75 OR 110 CD.
        - b. FLASHING SHALL BE IN A TEMPORAL PATTERN, SYNCHORONIZED WITH OTHER UNITS.
        - c. MOUNTING FACEPLATE: FACTORY FINISHED, RED.
     4. WIRE AND CABLE: EXISTING WHERE OR AS RECOMMENDED BY SYSTEM MANUFACTURER, NOT LESS THAN NO. 16 AWG. FIRE ALARM RATED MC CABLE IS PERMITED.

NOTE: 11"x 17" PRINT IS HALF SIZE

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CONSTRUCTION DOCUMENTS

2nd Floor STA Office Renovation

SITKA TRIBE OF ALASKA

No.	Description	Date

SHEET TITLE:
ELECTRICAL SPECIFICATIONS

DATE: 03/05/24
DRAWN: RDP/JLC
CHECKED: RDP

SHEET NO.
E002

ELECTRICAL SPECIFICATIONS

11. TELECOMMUNICATIONS
    - A. EXISTING CATEGORY 5 AND 5E INSTALLATIONS SHALL REMAIN TO SUPPLING EXISTING TELECOM OUTLETS TO REMAIN.
    - B. EXISTING UNUSED CABLES RUN IN CEILINGS SHALL BE REMOVED AND UNTERMINATED FROM EXISTING PATCH PANELS 110- OR 66-BLOCKS. EXISTING HOUSE CABLES FROM SECOND FLOOR TO FIRST FLOOR COMMUNICATIONS SPACE SHALL REMAIN.
    - C. PROVIDE CATEGORY 6 INSTALLATIONS (PLENUM RATED CABLE, TELECOM OUTLETS, PATCH PANELS) TO SUPPLY NEW OUTLETS IDENTIFIED ON DRAWINGS. NEW PATCH PANELS SHALL BE INSTALLED IN NEW RACK.
    - D. PROVIDE TELECOMMUNICATIONS OUTLET WITH NUMBER OF JACKS AS NOTED ON DRAWINGS.
    - E. COORDINATE INSTALLATIONS WITH SHARED MULTI-GANG FLOOR AND AV BOXES.
    - F. PROVIDE 2-POST 7'0" HIGH COMMUNICATIONS RACK WITH HORIZONTAL POWER DISTRIBUTION UNIT, GROUNDING BAR, VERTICAL AND HORIZONTAL WIRE MANAGEMENT PATHWAYS,.
    - G. INSTALLATION
        1. INSTALL CABLE(S) IN CONDUIT OR SUPPORT RINGS ABOVE CEILING OR WIRE MANAGEMENT SYSTEM AT RACK.
        2. PROVIDE DOCUMENTATION LABELING IN ACCORDANCE WITH TIA/ANSI-606.
        3. PROVIDE GROUNDING OF NEW EQUIPMENT RACK IN ACCORDANCE WITH TIA/ANSI-607.
        4. NEW PATCH PANELS SHALL HAVE 25% SPARE CAPACITY FOR FUTURE CABLE TERMINATIONS.
        5. PROVIDE HORIZONTAL WIRE MANAGEMENT AT EACH PATCH PANEL.
        6. LABEL OUTLETS WITH PATCH PANEL AND PORT NUMBER.
    - H. TESTING
        1. PROVIDE TESTING OF EXISTING OUTLETS TO REMAIN FOR BASELINE BEFORE DEMOLITION BEGINS.
        2. PROVIDE 100% TESTING OF ALL NEW INSTALLATIONS.
12. EMERGENCY LIGHTING
    - A. PROVIDE UL924 EMERGENCY LIGHTING INVERTER EL2 SUPPORTING NORMAL FULL LOAD AS SHOWN ON DRAWINGS AND 250W OF EMERGENCY LOAD FOR MINIMUM OF 90 MINUTES. CONNECTED OUTPUT (UNDIMMED) SHALL NOT EXCEED INVERTER RATING. ADJUST CORRIDOR LIGHTING OUTPUT LUMENS LEVEL TO MATCH LIGHTING SCHEDULE. INPUTS INCLUDE NORMAL POWER (HOT AND SWITCHED), COMMON, DIMMING INPUT (NOT USED). OUTPUTS INCLUDE SWITCHED HOT AND COMMON WITH DIMMING OUTPUT.
    - B. ADJUST DIMMING TO 20% OR 40% TO MEET MAXIMUM DIMMING LOAD AND EGRESS LIGHTING.
    - C. BODINE ELI-S-250.
13. PUBLIC ADDRESS SYSTEM
    - A. PROVIDE SINGLE PUBLIC ADDRESS/PAGING CONTROL UNIT WITH ONE-WAY ALL-CALL CABPABILITY WITH INTEGRATED POWER SUPPLY.
        1. PROVIDES AUDIO FOR UP TO 150 ONE-WAY SPEAKER-AMPLIFIER ASSEMBLIES.
        2. VOLUME CONTROL FOR BACKGROUND MUSIC AND TONES.
        3. MANUFACTURER: VALCOM V-2003A
        4. TELEPHONE INTERFACE: PROVIDE SESSION INITIATION PROTOCOL (SIP) VOIP PBX CONTROL UNIT.
    - B. PROVIDE AMPLIFIER ASSEMBLIES, 24V DC, 1A SUPPLIED FROM PAGING CONTROL UNIT OR AUXILARY POWER SUPPLY.
    - C. ONE-WAY SPEAKER AMPLIFIER ASSEMBLIES.
        1. ROUND FLUSH CEILING ASSEMBLIES, WHITE WITH REMOVABLE VOLUME CONTROL KNOB
        2. MOUNTING: CEILING BACKBOX AND BRIDGE FOR CEILING TILE INSTALLATION OR METAL WALL CORNER SPEAKER FOR INSTALLATIONS SHOWN.
    - D. MANUFACTURER: VALCOM V-2003A OR EQUAL
    - E. PROVIDE CEILING PLENUM RATED CABLE RECOMMENDED BY MANUFACTURER, SIZED IN ACCORDANCE WITH VOLTAGE DROP. POWER AND COMMUNICATIONS CABLES SHALL DEDICATED PER FLOOR TO TERMINAL BLOCK WITH COMMON SUPPLIES FROM CONTROL UNIT AND POWER SUPPLY
    - F. INSTALLATION: TEST, ADJUST SPEAKER VOLUME. COORDINATE CONNECTION WITH OWNER'S TELEPHONE SUPPLIER INTERFACE FOR SINGLE PHONE NUMBER CALLING.

NOTE: 11"x 17" PRINT IS HALF SIZE

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CONSTRUCTION DOCUMENTS

2nd Floor STA Office Renovation

SITKA TRIBE OF ALASKA

No.	Description	Date

SHEET TITLE:
ELECTRICAL SPECIFICATIONS

DATE: 03/05/24
DRAWN: RDP/JLC
CHECKED: RDP

SHEET NO.
E003

LUMINAIRE SCHEDULE

TYPE MARK	LOAD	DESCRIPTION	MANUFACTURER	MODEL NUMBER	MOUNTING TYPE
D1	16	6" ROUND LED DOWNLIGHT, 0-10V DIMMING, SEMI-DIFFUSE CLEAR TRIM, 1500 NOMINAL LUMENS, COLOR TEMP 4000K	PRESCOLITE	LF6SL-6LFSL-15L-40K-8	RECESSED
D2	12	6" ROUND LED DOWNLIGHT, DEAD FRONT TRIM, WHITE REFLECTOR/FLANGE, 900 NOMINAL LUMENS, COLOR TEMP 4000K	MAXILUME	HH6-LED-900L-DIM10-MVOLT-WD-40K-90-HH6-6501-CL-WH	RECESSED
D3	16	4" SQUARE LED WALLWASH TYPE DOWNLIGHT, 0-10V DIMMING, SEMI-DIFFUSE CLEAR TRIM, 3000 NOMINAL LUMENS, COLOR TEMP 4000K	PRESCOLITE	LF4SQML-WW-4SQML30L-40K-WW	RECESSED, 2'-6" FROM WALL, 3'-0" CENTER-TO-CENTER UON.
D4	12	3" ROUND LED DOWNLIGHT, CLEAR SPECULAR REFLECTOR, WIDE DISTRIBUTION, FINISH, 1000 NOMINAL LUMENS, COLOR TEMP 4000K	PRESCOLITE	LTR-3RD-H-SL10L-DM1-LTR-3RD-T-SL40K8WD-S	RECESSED, GYP BOARD CEILING
E1	<varies>	LED EXIT SIGN, GREEN LETTERS, WHITE HOUSING, 12"L x 10"H x 2"D, 90-MINUTE BATTERY, ARROWS AS SHOWN	DUAL LITE	SE-S/D-G-W-E	<varies>
E2	2	LED EXIT SIGN, GREEN LETTERS, WHITE HOUSING, 12"L x 10"H x 2"D, ARROWS AS SHOWN	DUAL LITE	SE-S/D-G-W-E	CEILING
EM1	2	LED EMERGENCY LUMINAIRE, 2 ADJUSTABLE HEADS, WHITE HOUSING	DUAL LITE	LZ2-03L	WALL, 7'-6" AFF
PD	58	4' LINEAR LED DIRECT/INDIRECT SUSPENDED LUMINAIRE, 5800 NOMINAL LUMENS, COLOR TEMP 4000K	FINELITE	HP2ID-4-H-H-840-WSO	SUSPENDED, 18" BELOW CEILING, UON
R4	44	2'X4' LED ARCHITECTURAL TROFFER, 2800 NOMINAL LUMENS, COLOR TEMP 4000K, 80+ CRI	COLUMBIA	CFP24-5540	RECESSED
R4D	44	SAME AS TYPE R4 EXCEPT FOR DIMMING CONTROL	COLUMBIA	CFP24-5540	RECESSED
R5	32	2'X2' LED ARCHITECTURAL TROFFER, 3600 NOMINAL LUMENS, COLOR TEMP 4000K, 80+ CRI	COLUMBIA	CFP22-4040	RECESSED
R5D	32	SAME AS TYPE R5 EXCEPT FOR DIMMING CONTROL	COLUMBIA	CFP22-4040	RECESSED
R5E	32	2'X2' LED ARCHITECTURAL TROFFER, 3600 NOMINAL LUMENS, COLOR TEMP 4000K, 80+ CRI	COLUMBIA	CFP22-4040	RECESSED
R6D	18	2'X2' LED ARCHITECTURAL TROFFER, 2800 NOMINAL LUMENS ADUST IN FIELD TO LUMENS SHOWN, COLOR TEMP 4000K, 80+ CRI	COLUMBIA	CFP22-3340	RECESSED
R7	51	1'X4' LED SURFACE MOUNTED WRAPAROUND, 5000 NOMINAL LUMENS, PRISMATIC LENS, 4000K COLOR	COLUMBIA	LWC4-40HL-EE-PAF	SURFACE
R8	13	4'x1.5" LINEAR LED SLOT, EXTRUDED ALUMINIUM HOUSING, FLUSH ACRYLIC LENS, INTEGRAL ELECTRONIC 0-10V DIMMING DRIVER, 120-277V, COLOR TEMP 4000K, 80+ CRI	AXIS	SCR 300 80 40 FL 4FT WUNV DP 1 TB9	RECESSED
R9	26	8'x1.5" LINEAR LED SLOT, EXTRUDED ALUMINIUM HOUSING, FLUSH ACRYLIC LENS, INTEGRAL ELECTRONIC 0-10V DIMMING DRIVER, 120-277V, COLOR TEMP 4000K, 80+ CRI	AXIS	SCR 300 80 40 FL 8FT WUNV DP 1 TB9	RECESSED
R10	54	12'x2.25" LINEAR LED WALLWASH, EXTRUDED ALUMINIUM HOUSING, BLACK LOUVER, INTEGRAL ELECTRONIC 0-10V DIMMING DRIVER, 120-277V, COLOR TEMP 4000K, 80+ CRI	AXIS	WWR SL 375 80 40 L 12FTW UNV DP 1 TB9	RECESSED
R11	72	16'x2.25" LINEAR LED WALLWASH, EXTRUDED ALUMINIUM HOUSING, BLACK LOUVER, INTEGRAL ELECTRONIC 0-10V DIMMING DRIVER, 120-277V, COLOR TEMP 4000K, 80+ CRI	AXIS	WWR SL 375 80 40 L 16FTW UNV DP 1 TB9	RECESSED
W1	17	4' VANITY LUMINAIRE, CARBON BLACK FINISH, ACRYLIC LENS, 2200 NOMINAL LUMENS, COLOR TEMP 4000K, 90+ CRI	LITECONTROL	67L-W-D-4-4-BL-C5-40K9-D055-NDM-1C-UNV	WALL SURFACE, ON EXISTING RECESSED JUNCTION BOX
W2	16	EXTERIOR 4.6"X3.9" RECTANGULAR LED LUMINAIRE, DIRECT/INDIRECT LIGHTING, EXTRA WIDE FLOOD DISTRIBUTION, BRONZE FINISH, SEALED GLASS DIFFUSE LENS, COLOR TEMP 4000K	COOPER	303-W2-LEDB2-4000K-UNV-T5X-DIM10-BZ	WALL UP 8'0" TO CENTER
W3	25	EXTERIOR 16.5"X9" TRAPEZOIDAL LED LUMINAIRE, DOWNLIGHT, WIDE DISTRIBUTION, BRONZE FINISH, COLOR TEMP 4000K	COOPER	IST-AF-450-LED-E1-T4W-BZ	WALL AT EXISTING LOCATION
W4	8	EXTERIOR 2.6"X4.6" RECTANGULAR LED LUMINAIRE, DOWNLIGHT, LATERAL DISTRIBUTION, BRONZE FINISH, SEALED GLASS DIFFUSE LENS, COLOR TEMP 4000K	COOPER	303-W1-LEDB1-4000K-UNV-T2-DIM10-BZ	WALL MOUNT, SEE SHEETS FOR HEIGHTS
W5	18	EXTERIOR CIRCULAR APERTURE LED FLOODLIGHT, ADJUSTABLE AIMING, MEDIUM DISTRIBUTION, BRONZE FINISH, SEALED CLEAR GLASS LENS, COLOR TEMP 4000K	COOPER	TCRL20M	MATCH HEIGHT OF ADJACENT W3 FIXTURE

NOTE: LUMINAIRE SCHEDULE INCLUDES THOSE IN USE IN THE SIGINAKA FACILITY. ONLY LUMAIRES IDENTIFIED ON THE PLAN SHEETS ARE REQUIRED.

LUMINAIRE SCHEDULE NOTES

1. LUMINAIRES SHALL BE SUITABLE FOR CONNECTION TO VOLTAGE INDICATED, AND SHALL BE MVOLT WITH VOLTAGE INDICATED IF AVAILABLE.
2. CONTRACTOR TO PROVIDE MOUNTING OPTIONS AS REQUIRED FOR LOCATIONS SHOWN ON PLAN.

LIGHTING PLAN NOTES

1. RECESSED AND SEMI-RECESSED LUMINAIRES SHALL BE CONNECTED BY FLEXIBLE METAL CONDUIT, DIRECTLY TO A JUNCTION BOX SUCH THAT EACH LUMINAIRE CAN BE REMOVED AND DISCONNECTED INDEPENDENTLY OF OTHER LUMINAIRES. LUMINAIRE TO LUMINAIRE CONNECTION SHALL NOT BE ALLOWED.
2. COORDINATE LUMINAIRE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS.
3. TYPE Ex LUMINAIRES: PROVIDE UNSWITCHED CONNECTION.

NOTE: 11"x 17" PRINT IS HALF SIZE

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3-5-24

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SITKA TRIBE OF ALASKA

No.	Description	Date

SHEET TITLE:
LUMINAIRE SCHEDULE

DATE: 03/05/24
DRAWN: RDP/JLC
CHECKED: RDP

SHEET NO.
E004

DEMOLITION NOTES

1. SYMBOLS WITH DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED. SOLID LINES INDICATE EXISTING ITEMS TO REMAIN, UNLESS OTHERWISE NOTED.
2. EXISTING ELECTRICAL EQUIPMENT AND DEVICES SHOWN AS DEMO BASED ON RECORD DOCUMENTS, PREVIOUS RENOVATION WORK AND LIMITED FIELD.
3. ELECTRICAL EQUIPMENT REMOVED AND DEEMED UNUSABLE BY THE OWNER SHALL BECOME PROPERTY OF THE CONTRACTOR AND BE PROPERLY DISPOSED OF. EQUIPMENT IN SERVICEABLE CONDITION SHALL BE DELIVERED TO OWNER WITHOUT DAMAGE.
4. PROTECT EXISTING ELECTRICAL AND TELECOMMUNICATIONS DEVICES AND EQUIPMENT IN PLACE DURING CONSTRUCTION.
5. EXISTING FIRE ALARM CIRCUITRY SHALL BE PROTECTED IN PLACE WHILE CONSTRICTION IS IN PROGRESS.

SHEET KEYNOTES (#)

1. NO ELECTRICAL OR TELECOM DEVICE DEMOLITION WORK IN THIS AREA. REMOVE ANY ABANDONED PA SYSTEM WIRING ABOVE CEILING.
2. NO DEMOLITION WORK IN THIS AREA, UON.

1 / E111 **FIRST FLOOR DEMOLITION PLAN**

SCALE: 3/16" = 1'-0"

ACTUAL NORTH / PROJECT NORTH

5'-4" 2'-8" 0' 5'-4" 10'-8" 16'

3/16" = 1'-0" GRAPHIC SCALE

NOTE: 11"x 17" PRINT IS HALF SIZE

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CONSTRUCTION DOCUMENTS

2nd Floor STA Office Renovation

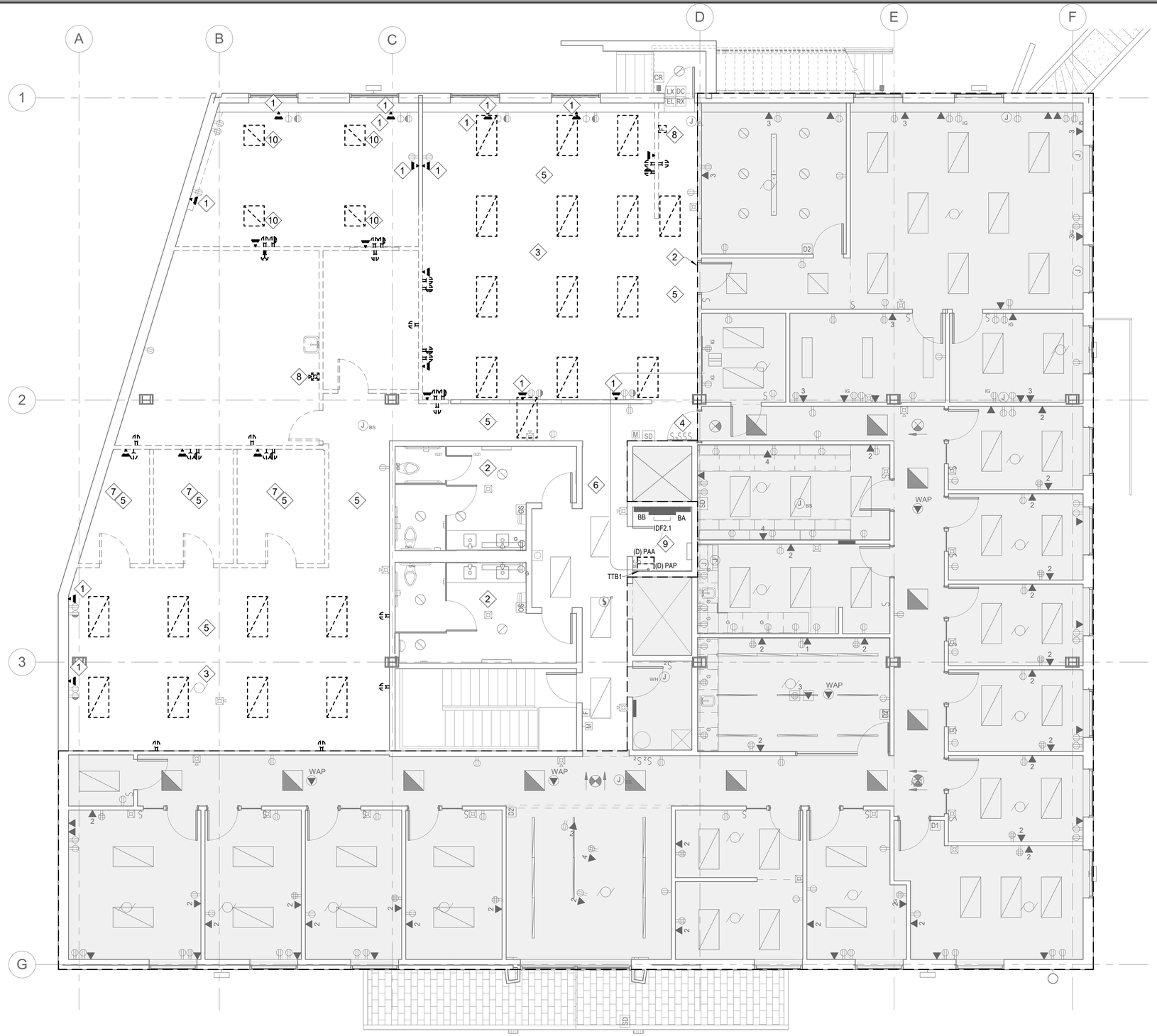
SITKA TRIBE OF ALASKA

No.	Description	Date

SHEET TITLE:
DEMOLITION PLAN, LEVEL 1

DATE: 03/05/24
DRAWN: RDP/JLC
CHECKED: RDP

SHEET NO.
E111



DEMOLITION SHEET NOTES

1. SYMBOLS WITH DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED. SOLID LINES INDICATE EXISTING ITEMS TO REMAIN, UNLESS OTHERWISE NOTED.
2. EXISTING ELECTRICAL EQUIPMENT AND DEVICES SHOWN AS DEMO BASED ON RECORD DOCUMENTS AND LIMITED FIELD OBSERVATIONS. VERIFY LOCATION, QUANTITY AND TYPE OF EQUIPMENT TO BE DEMOLISHED.
3. ELECTRICAL EQUIPMENT REMOVED AND DEEMED UNUSABLE BY THE OWNER SHALL BECOME PROPERTY OF THE CONTRACTOR AND BE PROPERLY DISPOSED OF. EQUIPMENT IN SERVICEABLE CONDITION SHALL BE DELIVERED TO OWNER WITHOUT DAMAGE.
4. EXISTING ELECTRICAL AND TELECOMMUNICATIONS DEVICES AND EQUIPMENT TO REMAIN SHALL BE REMOVED OR PROTECTED IN PLACE DURING CONSTRUCTION.
5. EXISTING FIRE ALARM CIRCUITRY SHALL BE PROTECTED IN PLACE WITH MODIFICATIONS SHOWN THIS SHEET WHILE CONSTRICTION IS IN PROGRESS.
6. EXISTING FIRE ALARM DEVICES MAY BE REUSED FOR NEW INSTALLATIONS.

SHEET KEYNOTES (#)

1. DEMOLISH TELECOMMUNICATIONS FACEPLATE AND COMMUNICATIONS CABLE TO ELECTRICAL ROOM. PROVIDE BLANK PLATE MATCHING NEW RECEPTACLES WHERE WALL TO REMAIN. DEMOLISH POWER DEVICES WHERE SHOWN.
2. NO DEMOLITION WORK IN THIS AREA, UON.
3. DISCONNECT POWER TO MECHANICAL IDU EQUIPMENT TO BE RELOCATED. SEE M201. PROTECT CIRCUIT TO EXTEND TO NEW IDU DEVICES SERVING THIS AREA.
4. MAINTAIN (E) 3-WAY SWITCH FOR CONTROL OF REVISED HALLWAY LIGHTING. REMOVE ADDITIONAL SWITCHES FOR OTHER LIGHTING IN WORK AREAS. PROVIDE REPLACEMENT DEVICEPLATE COVERING UNUSED SWITCH LOCATIONS.
5. DEMOLISH ALL LUMINAIRES INCLUDING EMERGENCY LUMINAIRES IN THIS AREA.
6. EXISTING LUMINAIRES TO REMAIN IN THIS AREA. IT SHALL BE RECONNECTED WITH 0-10V DIMMING CONNECTION TO EL2 UNIT.
7. EXISTING DOCUMENTATION IN THIS ROOM IS FROM RECORD DOCUMENTS ONLY. DEMOLISH ALL DEVICES ON WALLS BEING REMOVED AND LUMINAIRES.
8. RELOCATE FIRE ALARM PULL STATION, SEE E132 PLAN.
9. DEMOLISION IN ELECTRICAL/COMM ROOM INCLUDES:
   A. REMOVAL OF EXISTING PUBLIC ADDRESS SYSTEM, POWER SUPPLY AND RELATED COMPONENTS.
   B. REMOVAL OF EXISTING 25-PAIR TELEPHONE CABLES AND CONNECTORS TO FIRST FLOOR OUTLETS. REMOVE UNUSED CROSS CONNECTS TO 66-BLOCKS.
   C. REMOVE EXISTING DEMOLISHED OR UNUSED TELECOM CABLE CABLES AND TERMINATIONS ON TTB
10. SALVAGE LUMINAIRE TYPE R5 FOR REINSTALLATION AS R6E INCLUDING ADJUSTMENT FOR LUMEN OUTPUT.

1 / E112 — SECOND FLOOR DEMOLITION PLAN

SCALE: 3/16" = 1'-0"

ACTUAL NORTH / PROJECT NORTH

5'-4" 2'-8" 0' 5'-4" 10'-8" 16'

3/16" = 1'-0" GRAPHIC SCALE

NOTE: 11"x 17" PRINT IS HALF SIZE

STATE OF ALASKA 49TH — ROBERT D. POSMA — AELE7750 — REGISTERED PROFESSIONAL ENGINEER — 2-5-2024

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CONSTRUCTION DOCUMENTS

2nd Floor STA Office Renovation

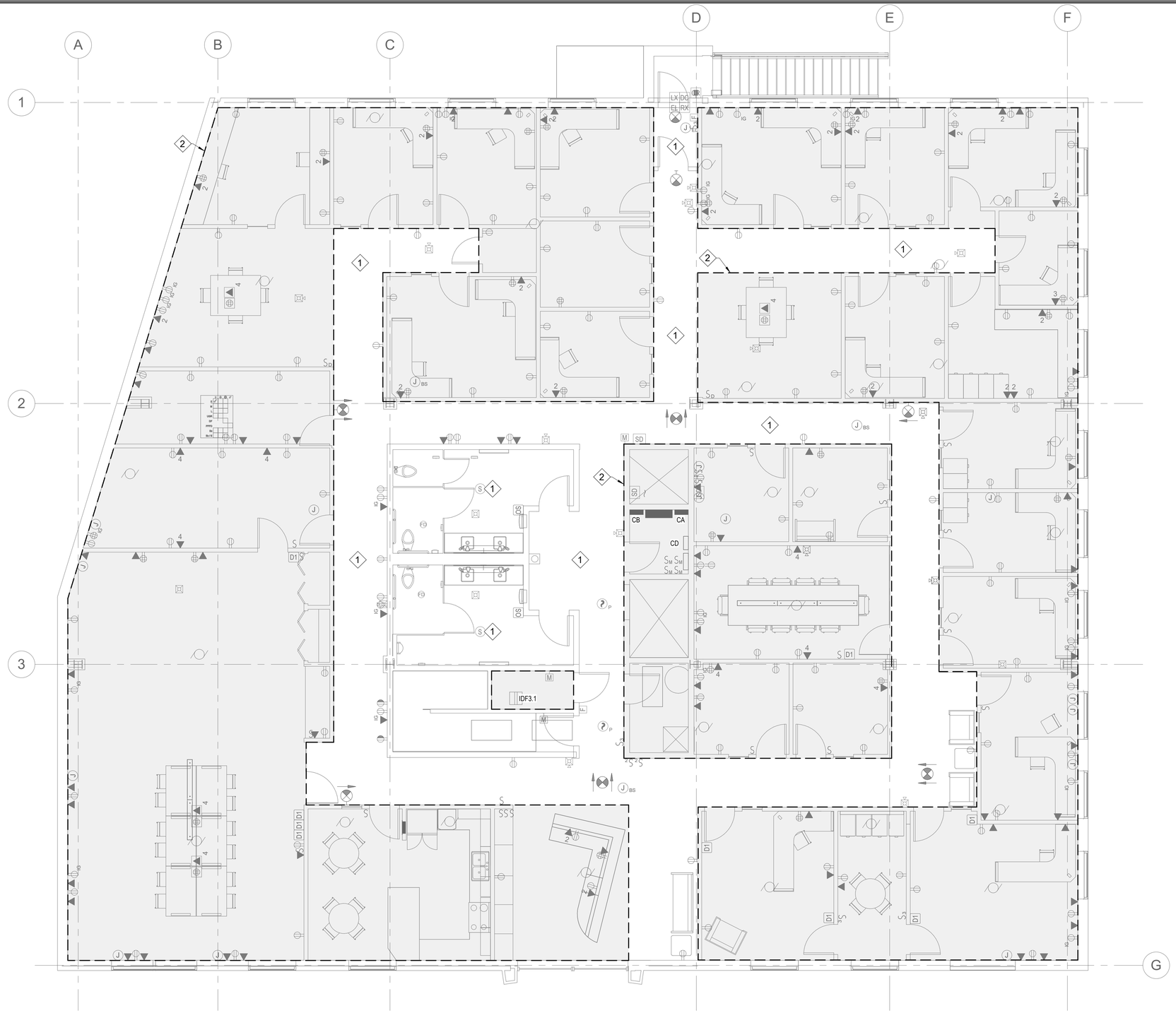
SITKA TRIBE OF ALASKA

No.	Description	Date

SHEET TITLE:
DEMOLITION PLAN, LEVEL 2

DATE: 03/05/24
DRAWN: RDP/JLC
CHECKED: RDP

SHEET NO.
E112



DEMOLITION SHEET NOTES

1. SYMBOLS WITH DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED. SOLID LINES INDICATE EXISTING ITEMS TO REMAIN, UNLESS OTHERWISE NOTED.
2. EXISTING ELECTRICAL EQUIPMENT AND DEVICES SHOWN AS DEMO BASED ON RECORD DOCUMENTS, PREVIOUS RENOVATION WORK DESIGN DOCUMENTS.
3. ELECTRICAL EQUIPMENT REMOVED AND DEEMED UNUSABLE BY THE OWNER SHALL BECOME PROPERTY OF THE CONTRACTOR AND BE PROPERLY DISPOSED OF. EQUIPMENT IN SERVICEABLE CONDITION SHALL BE DELIVERED TO OWNER WITHOUT DAMAGE.
4. PROTECT EXISTING ELECTRICAL AND TELECOMMUNICATIONS DEVICES AND EQUIPMENT IN PLACE DURING CONSTRUCTION.
5. EXISTING FIRE ALARM CIRCUITRY SHALL BE PROTECTED IN PLACE WHILE CONSTRICTION IS IN PROGRESS.

SHEET KEYNOTES (#)

1. NO ELECTRICAL OR TELECOM DEVICE DEMOLITION WORK IN THIS AREA. REMOVE ANY ABANDONED PA SYSTEM WIRING ABOVE CEILING.
2. NO DEMOLITION WORK IN THIS AREA, UON.

1 / E113 **THIRD FLOOR DEMOLITION PLAN**

SCALE: 3/16" = 1'-0"

ACTUAL NORTH / PROJECT NORTH

5'-4" 2'-8" 0' 5'-4" 10'-8" 16'

3/16" = 1'-0" GRAPHIC SCALE

NOTE: 11"x 17" PRINT IS HALF SIZE

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CONSTRUCTION DOCUMENTS

2nd Floor STA Office Renovation

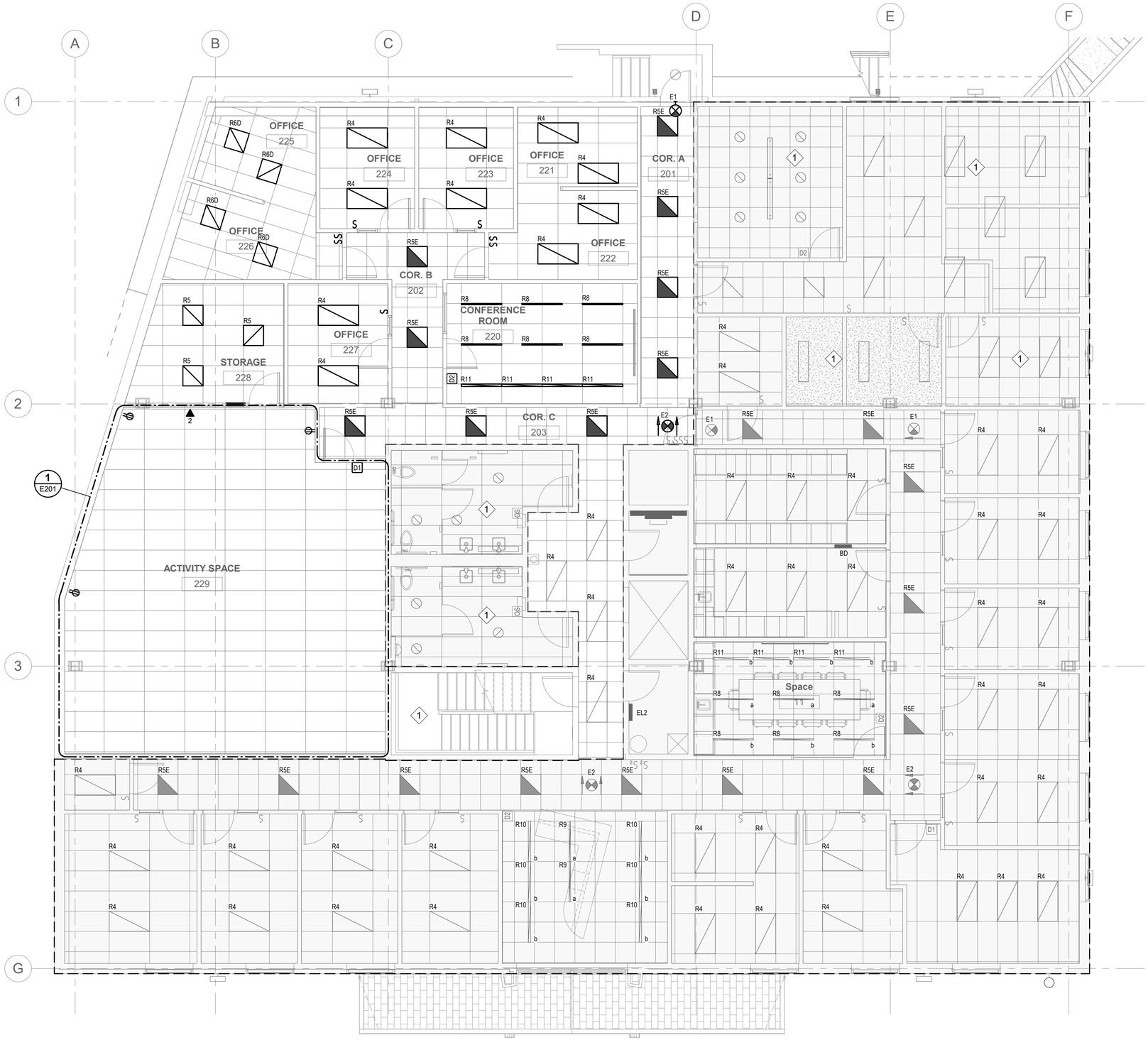
SITKA TRIBE OF ALASKA

No.	Description	Date

SHEET TITLE:
DEMOLITION PLAN, LEVEL 3

DATE: 03/05/24
DRAWN: RDP/JLC
CHECKED: RDP

SHEET NO.
E113



SHEET NOTES

1. SEE E112, FOR DEMOLITION PLANS.
2. RECONNECT NEW LUMINAIRES TO PROTECTED EXISTING LIGHTING CIRCUITRY. CONNECT TO NEW LIGHTING CONTROLS AS INDICATED IN EACH SPACE.
3. SEE GENERAL NOTES AND LUMINAIRE SCHEDULE IN E001 FOR ADDITIONAL INFORMATION.
4. CONNECT NEW EMERGENCY LIGHTING THROUGH EMERGENCY LIGHTING POWER SUPPLY EL2.
5. EXIT SIGNS (E1 OR E2) SHALL BE CONNECTED TO SAME UNSWITCHED CIRCUIT AS EL2.

SHEET KEYNOTES (#)

1. NO LIGHTING WORK PERFORMED IN THIS AREA, UON.

1 / E122 **SECOND FLOOR LIGHTING PLAN**

SCALE: 3/16" = 1'-0"

ACTUAL NORTH / PROJECT NORTH

NOTE: 11"x 17" PRINT IS HALF SIZE

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CONSTRUCTION DOCUMENTS

2nd Floor STA Office Renovation

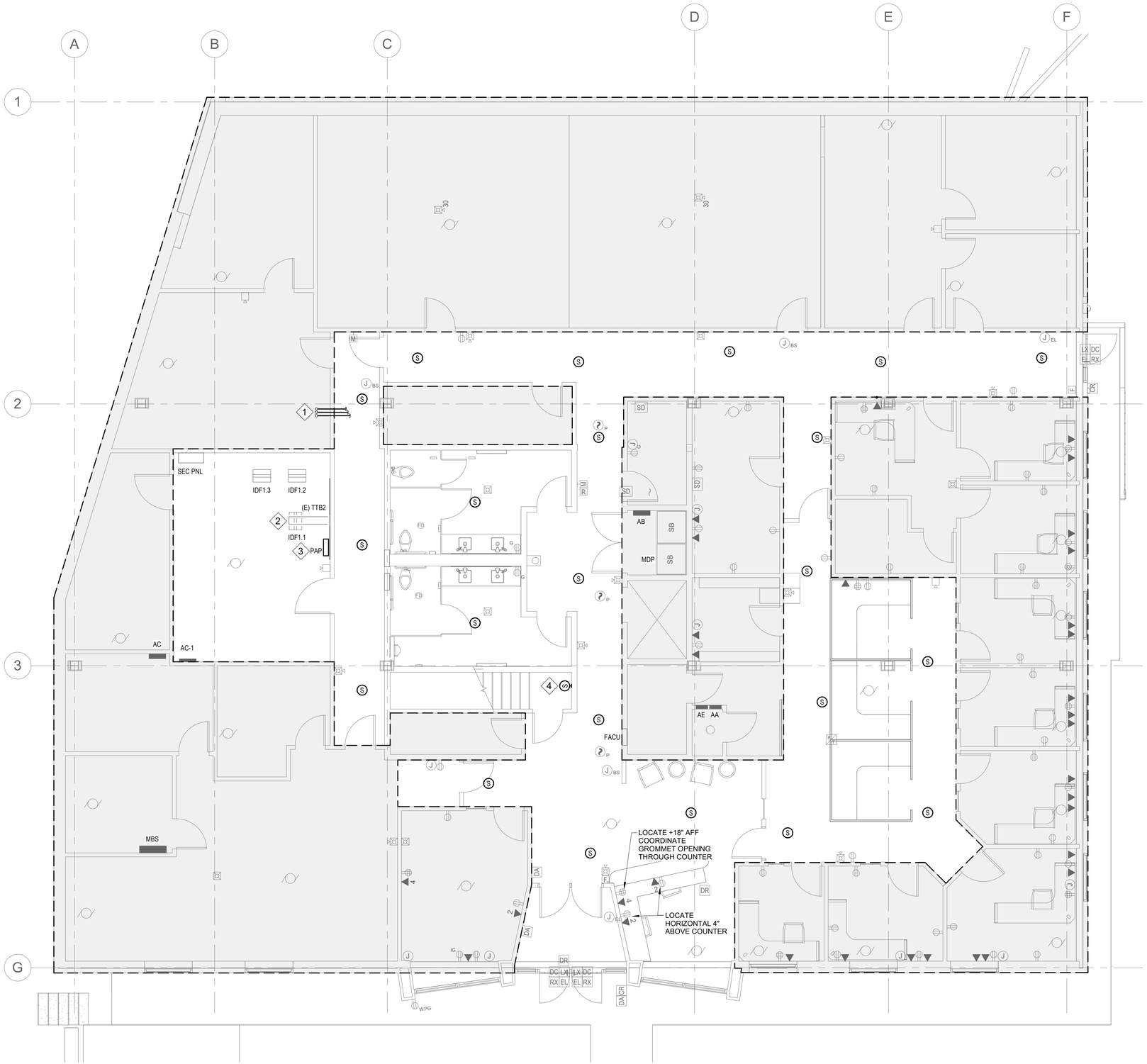
SITKA TRIBE OF ALASKA

No.	Description	Date

SHEET TITLE:
LIGHTING PLAN, LEVEL 2

DATE: 03/05/24
DRAWN: RDP/JLC
CHECKED: RDP

SHEET NO.
E122



SHEET NOTES

1. LIMITS OF WORK INCLUDE CORRIDORS AND RESTROOMS FOR PUBLIC ADDRESS AND TELECOM CABLING INSTALLATION ON THIS FLOOR. ALL OTHER WORK IS EXISTING TO REMAIN. REMOVE ANY UNUSED PUBLIC ADDRESS WIRING IN THE CEILING.

SHEET KEYNOTES ◇#

1. PROVIDE 2 EACH 2" AND 1 EACH 1" SLEEVE THROUGH LEVEL 2 FLOOR FOR SECOND FLOOR COMMUNICATION CABLING AND PA SYSTEM (SEE ALSO E502). SWEEP CONDUITS TO FIRST LEVEL CORRIDOR. PROVIDE WIRE MANAGEMENT TO IDF1.1 IN CORRIDOR CEILING.
2. NEW CATEGORY 6 PATH PANELS FOR WORK NEW TELECOM OUTLETS.
3. NEW PUBLIC ADDRESS PANEL WITH SPEAKER POWER SUPPLY. PROVIDE HARDWIRED 120V CIRCUIT FROM PANEL AC-1 SPARE 20/1 CIRCUIT BREAKER. COORDINATE CROSSCONNECT TO EXISTING MITEL TELEPHONE SWITCH FOR PAGING THROUGH PHONE EXTENSION.
4. COORDINATE WALL OR CEILING MOUNT SPEAKER IN EXISTING WALLBOARD. PROVIDE FIRE RESISTIVE PUDDY PAD(S) TO MAINAIN FIRE RESISTANT CONSTRUCTION.

1 / E131 **CHANGE ORDER #3 - FIRST FLOOR POWER AND SIGNALING PLAN**

SCALE: 3/16" = 1'-0"

ACTUAL NORTH / PROJECT NORTH

5'-4" 2'-8" 0' 5'-4" 10'-8" 16'

3/16" = 1'-0" GRAPHIC SCALE

NOTE: 11"x 17" PRINT IS HALF SIZE

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CONSTRUCTION DOCUMENTS

2nd Floor STA Office Renovation

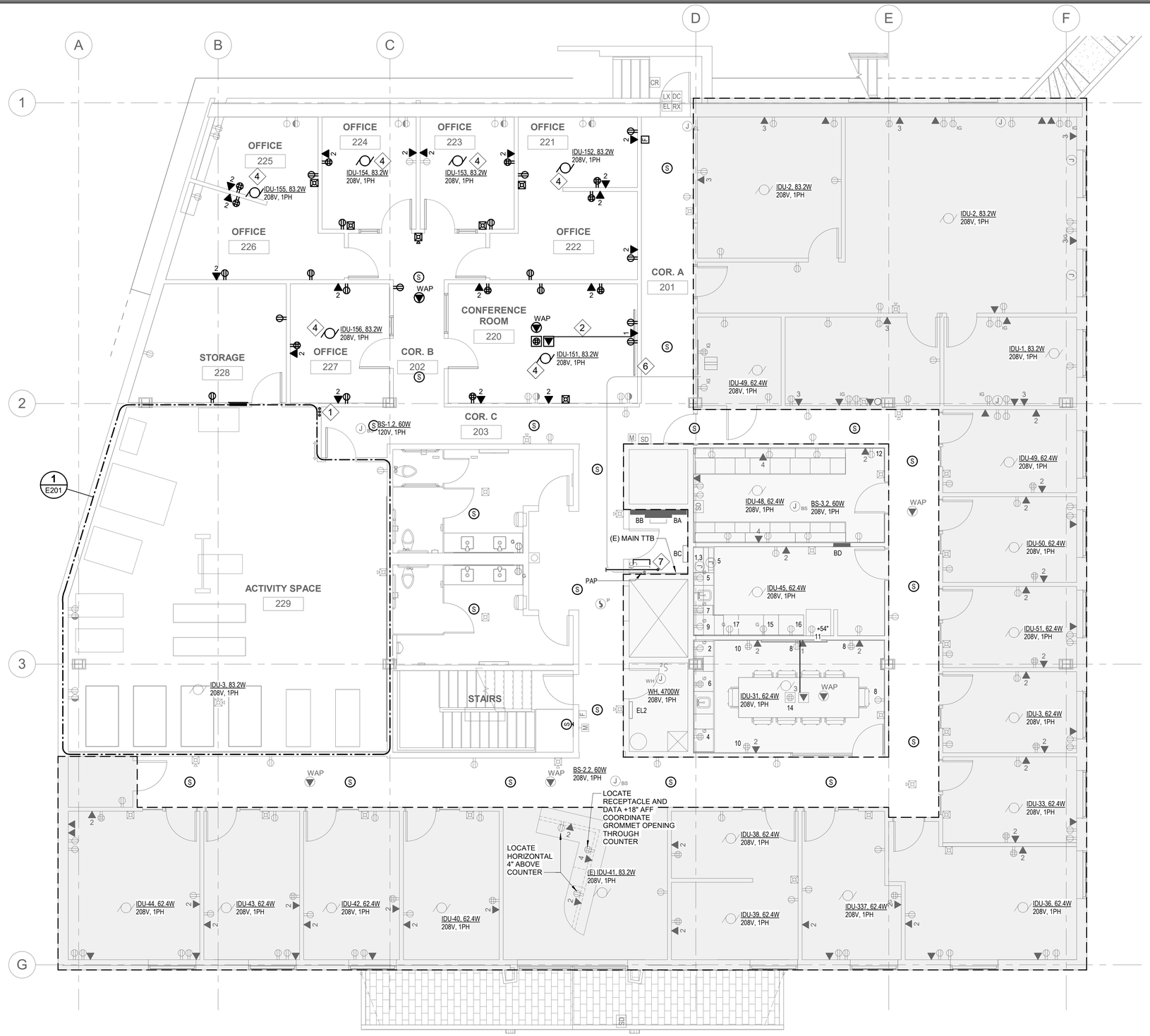
SITKA TRIBE OF ALASKA

No.	Description	Date

SHEET TITLE:
POWER & SIGNALING PLAN, LEVEL 1

DATE: 03/05/24
DRAWN: RDP/JLC
CHECKED: RDP

SHEET NO.
E131



SHEET NOTES

1. EXISTING TELECOM OUTLETS TO REMAIN SHALL REMAIN, SEE SHEET E112. PROVIDE NEW CAT 6 CABLES TO NEW OUTLETS.
2. SEE GENERAL ELECTRICAL NOTES FOR CIRCUITING GUIDELINES OF NEW DEVICES ON EXISTING CIRCUITS.

SHEET KEYNOTES ◇#

1. PROVIDE 2 EACH 2" AND 1 EACH 1" SLEEVE THROUGH LEVEL 2 FLOOR FOR SECOND FLOOR COMMUNICATION CABLING AND PA SYSTEM (SEE ALSO E502). PROVIDE WIRE MANAGEMENT THIS FLOOR IN CORRIDOR CEILING.
2. CONFERENCE ROOM AV PROVISIONS: CONNECT 4-GANG FLOOR BOX TO WALL 4-GANG AV-BOX WITH 1-1/2 INCH CONDUIT. PROVIDE 1-1/2 INCH CONDUIT FROM WALL AV-BOX INTO ABOVE CEILING, TERMINATED IN INSULATED THROAT.
3. COORDINATE WALL OR CEILING MOUNT SPEAKER IN EXISTING WALLBOARD. PROVIDE FIRE RESISTIVE PUDDY PAD(S) TO MAINAIN FIRE RESISTANT CONSTRUCTION.
4. CONNECT RELOCATED AND NEW IDU TO EXISTING 208V CIRCUIT.
5. EXISTING 2-POLE SWITCHES CONTROL EXISTING IDU CIRCUIT.
6. EXISTING 2-1/2 INCH BACKBONE CONDUIT FOR CONNECTION UTILITY ENTRANCE FACILITY IN ELECTRICAL ROOM.
7. PROVIDE 1 EACH 1" SLEEVE THROUGH LEVEL 3 FLOOR FOR THIRD FLOOR PA SYSTEM (SEE ALSO E502). PROVIDE SWEEP AND STUBOUT TO LEVEL 2 CORRIDOR.

1 E132 **SECOND FLOOR POWER AND SIGNALING PLAN**

SCALE: 3/16" = 1'-0"

ACTUAL NORTH / PROJECT NORTH

5'-4" 2'-8" 0' 5'-4" 10'-8" 16'

3/16" = 1'-0" GRAPHIC SCALE

NOTE: 11"x 17" PRINT IS HALF SIZE

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CONSTRUCTION DOCUMENTS

2nd Floor STA Office Renovation

SITKA TRIBE OF ALASKA

No.	Description	Date

SHEET TITLE:
POWER & SIGNALING PLAN, LEVEL 2

DATE: 03/05/24
DRAWN: RDP/JLC
CHECKED: RDP

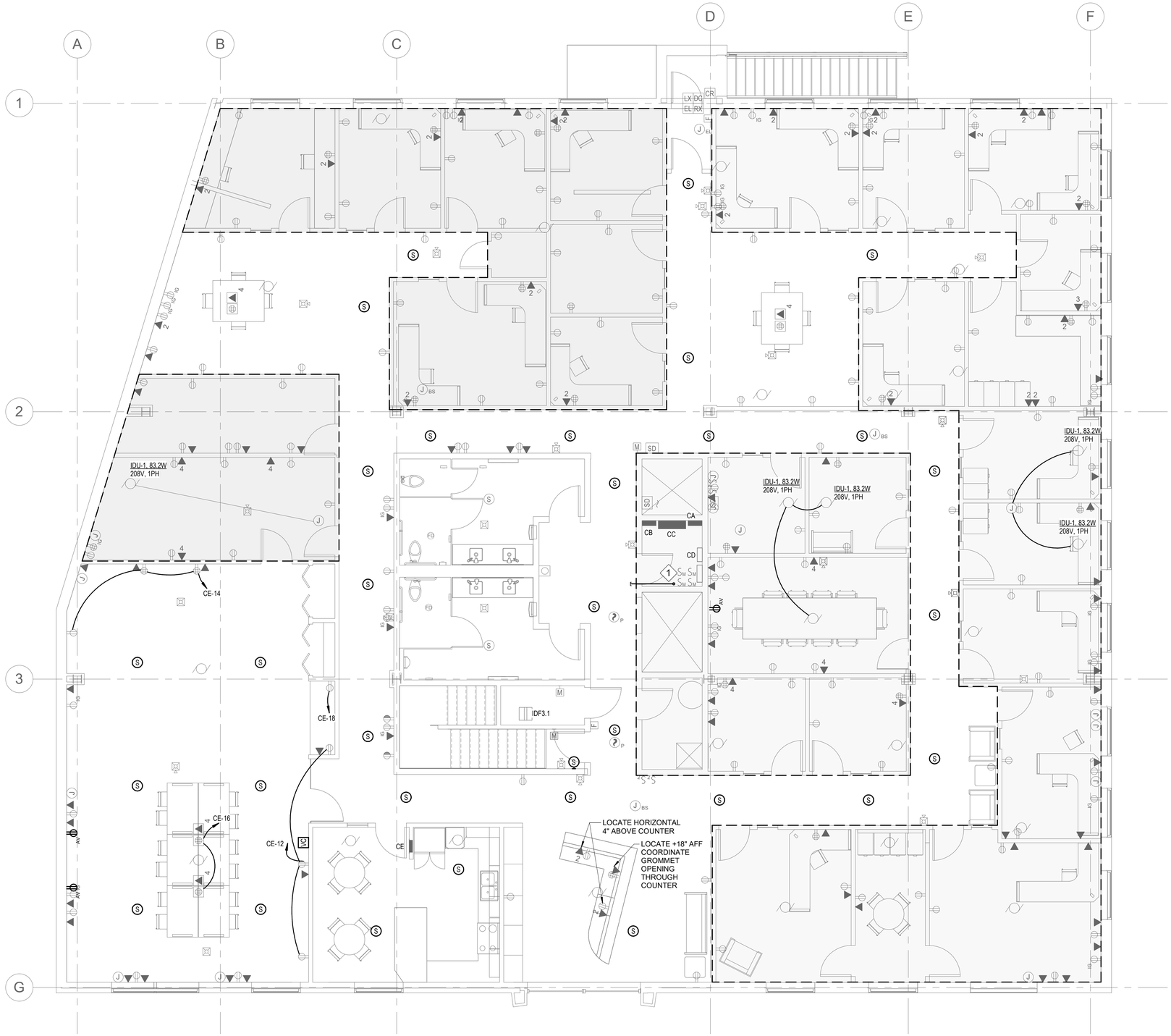
SHEET NO.
E132

SHEET NOTES

1. WORK LIMITED ON THIS FLOOR TO NEW PUBLIC ADDRESS SPEAKER INSTALLATION. ALL OTHER ELECTRICAL AND TELECOMMUNICATIONS TO REMAIN.

SHEET KEYNOTES (#)

1. PROVIDE 1 EACH 1" SLEEVE THROUGH LEVEL 3 FLOOR FOR THIRD FLOOR PA SYSTEM (SEE ALSO E502). PROVIDE WIRE MANAGEMENT THIS FLOOR IN CORRIDOR CEILING FOR PA CABLES.



1 / E133 **POWER & SIGNALING PLAN, LEVEL 3**

SCALE: 3/16" = 1'-0"

ACTUAL NORTH / PROJECT NORTH

5'-4" 2'-8" 0' 5'-4" 10'-8" 16'

3/16" = 1'-0" GRAPHIC SCALE

NOTE: 11"x 17" PRINT IS HALF SIZE

STATE OF ALASKA
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CONSTRUCTION DOCUMENTS

2nd Floor STA Office Renovation

SITKA TRIBE OF ALASKA

No.	Description	Date

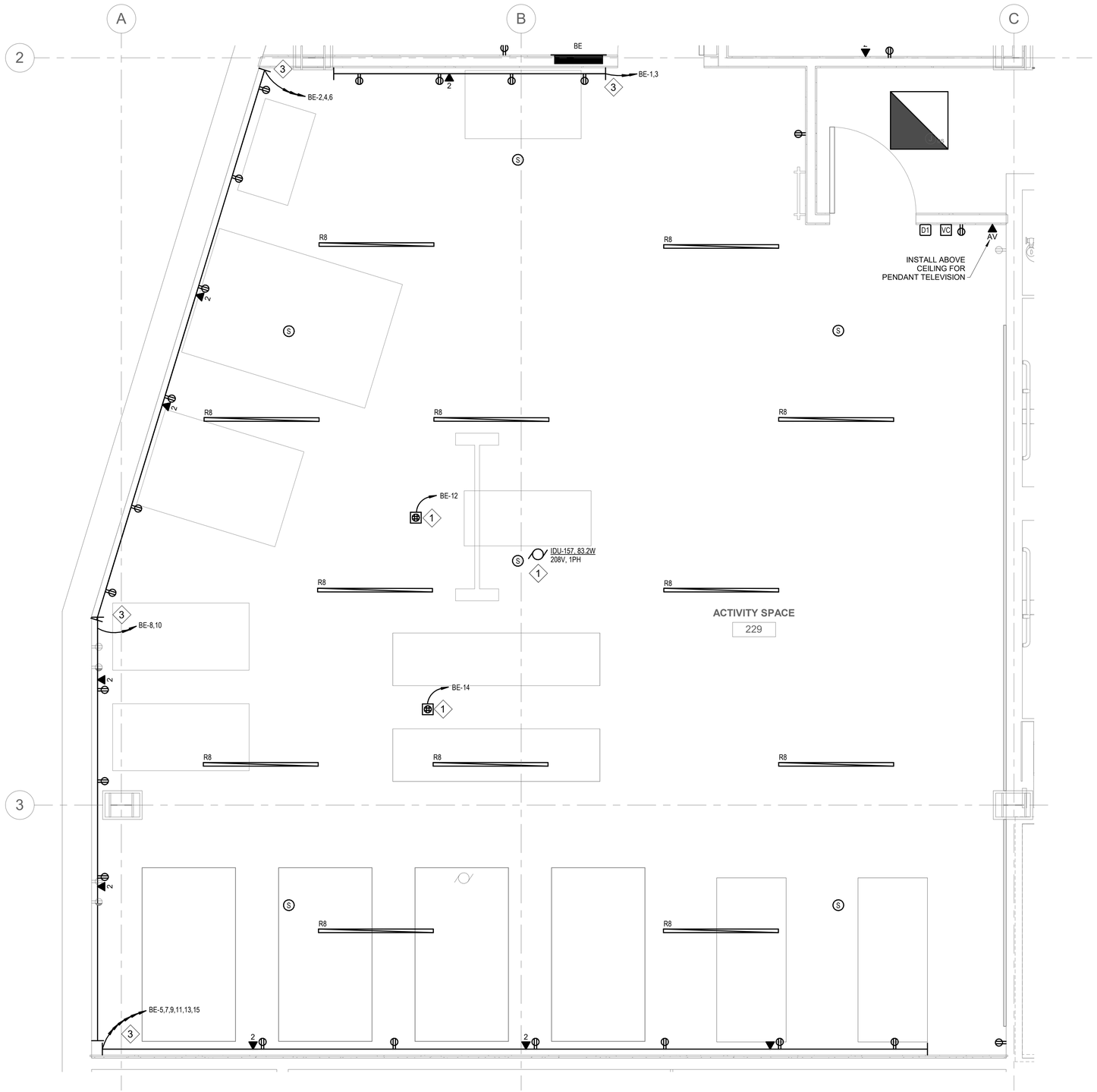
SHEET TITLE:
POWER & SIGNALING PLAN, LEVEL 3

DATE: 03/05/24

DRAWN: RDP/JLC

CHECKED: RDP

SHEET NO.
E133



1 ACTIVITY SPACE - LARGE SCALE ELECTRICAL

E201

SCALE: 1/2" = 1'-0"

SHEET NOTES

1. COORDINATE MULTI-OUTLET RACEWAY INSTALLATION WITH FLOOR BASE AND MIRROR INSTALLATIONS. RACEWAY BOTTOM UP 1" ABOVE TOP OF FLOOR BASE. RACEWAY SHALL BE SUPPLIED FROM CONCEALED JUNCTION BOX(ES) IN NON-EXTERIOR WALLS. PROVIDE CORNER TRANSITION PIECES AS REQUIRED. MAXIMUM OF TWO DUPLEX RECEPTACLES PER CIRCUIT.

SHEET KEYNOTES (X)

1. PROVIDE FLOOR BOX WITH DOUBLE DUPLEX RECEPTABLES, POWER ONLY.
2. CONNECT RELOCATED AND NEW IDU TO EXISTING 208V CIRCUIT.
3. PROVIDE DIVIDED MULTI-OUTLET RACEWAYS WITH POWER AND TELECOM OUTLETS AS SHOWN WITH NUMBER OF CIRCUITS. ADJACENT RECEPTACLES SHALL NOT BE ON THE CIRCUIT WHERE MULTIPLE CIRCUITS ARE PROVIDED. PROVIDE HOMERUN 3/4" RACEWAY, U.O.N.

ACTUAL NORTH / PROJECT NORTH

2 1 0 2 4 6

1/2" = 1'-0" GRAPHIC SCALE

NOTE: 11"x 17" PRINT IS HALF SIZE

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CONSTRUCTION DOCUMENTS

2nd Floor STA Office Renovation

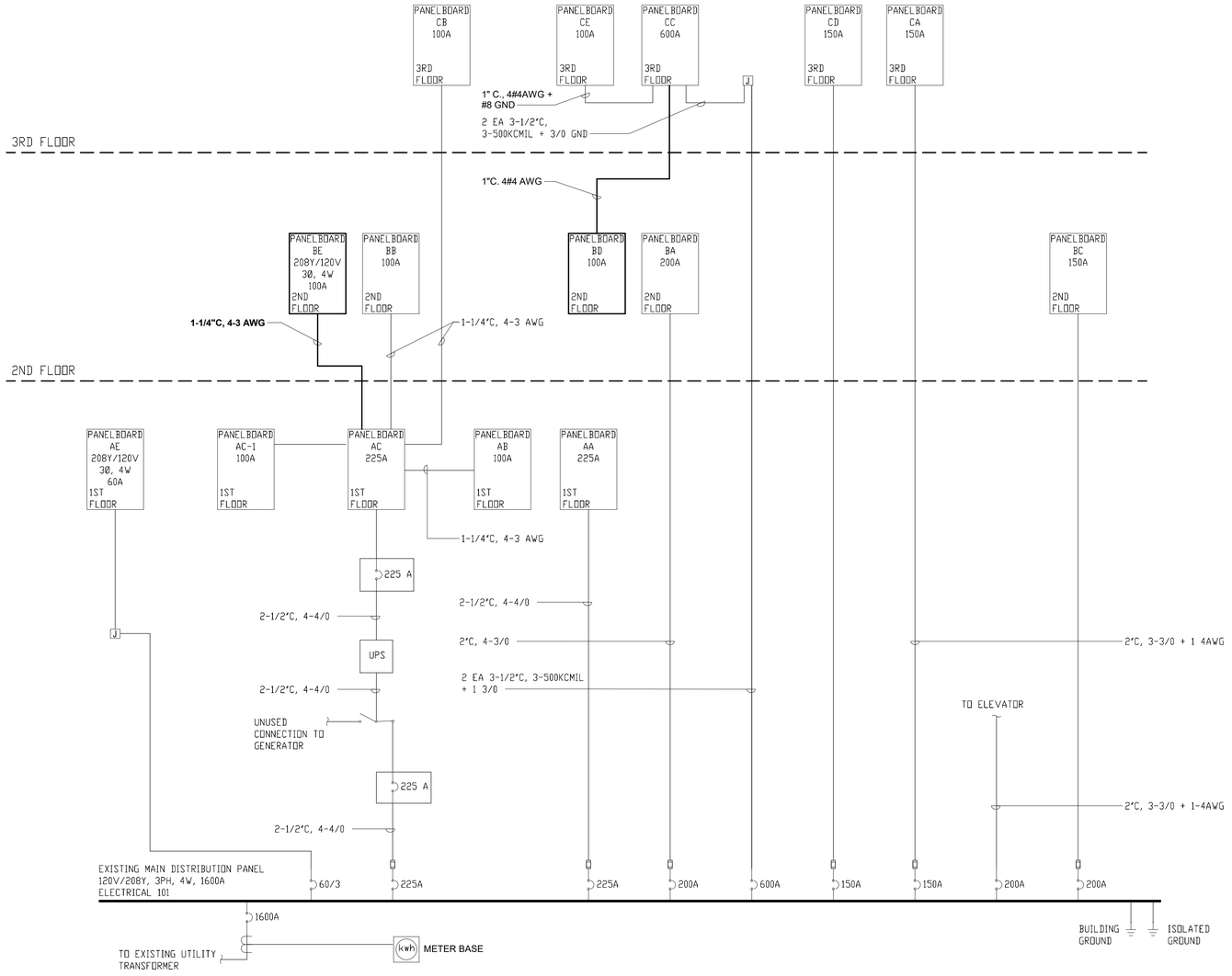
SITKA TRIBE OF ALASKA

No.	Description	Date

SHEET TITLE:
LARGE SCALE ACTIVITY ROOM

DATE: 03/05/24
DRAWN: RDP/JLC
CHECKED: RDP

SHEET NO.
E201



1 E501 ONE-LINE DIAGRAM

SCALE: NO SCALE

SHEET NOTES

1. EXISTING ELECTRICAL CONDITIONS BASED ON RECORD DOCUMENTS AND LIMITED FIELD OBSERVATIONS. VERIFY EXISTING FIELD CONDITIONS PRIOR TO BEGINNING OF WORK.
2. ALL EXISTING ELECTRICAL EQUIPMENT SHOWN SHALL REMAIN UNCHANGED. INDIVIDUAL CIRCUIT BREAKERS MAY BE ADDED TO A PANELBOARD IF REQUIRED TO SERVE ADDED LOAD.

STATE OF ALASKA 49TH — ROBERT D. POSMA — AELE7750 — REGISTERED PROFESSIONAL ENGINEER — 2-5-2024

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CONSTRUCTION DOCUMENTS

2nd Floor STA Office Renovation

SITKA TRIBE OF ALASKA

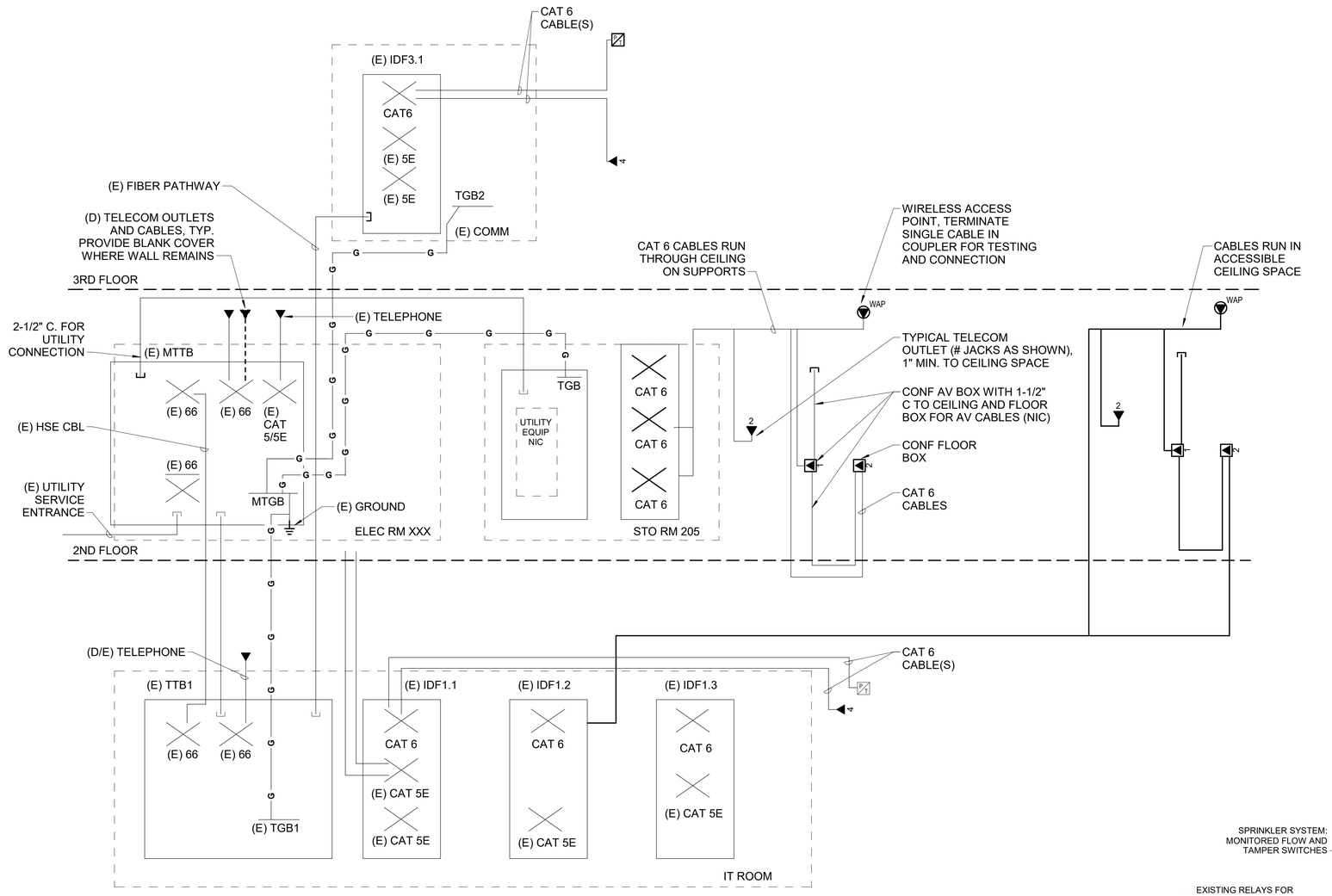
No.	Description	Date

SHEET TITLE:
ONE-LINE DIAGRAM

DATE: 03/05/24
DRAWN: RDP/JLC
CHECKED: RDP

SHEET NO.
E501

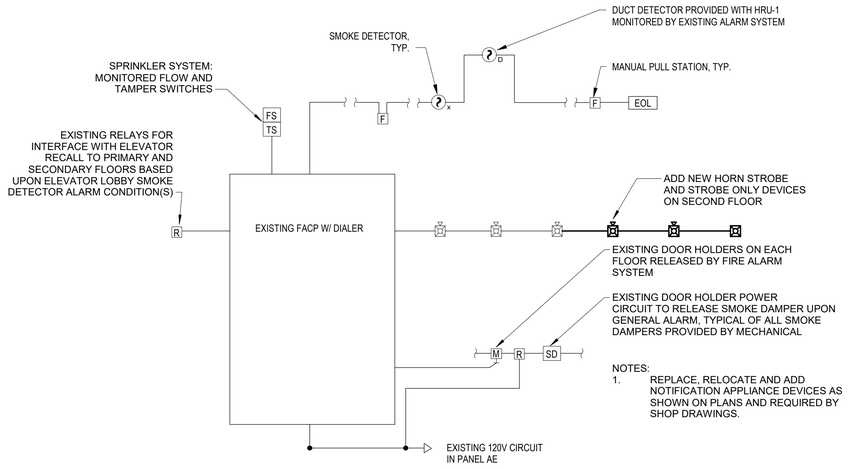
NOTE: 11"x 17" PRINT IS HALF SIZE



1 TELECOMMUNICATIONS ONE-LINE DIAGRAM

E502

SCALE: NO SCALE



2 FIRE ALARM RISER DIAGRAM

E502

SCALE: NO SCALE

NOTE: 11"x 17" PRINT IS HALF SIZE

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CONSTRUCTION DOCUMENTS

2nd Floor STA Office Renovation

SITKA TRIBE OF ALASKA

No.	Description	Date

SHEET TITLE:
SIGNALING DIAGRAMS

DATE: 03/05/24
DRAWN: RDP/JLC
CHECKED: RDP

SHEET NO.
E502

PANEL AC

VOLTAGE: 208Y/120V, 3PH, 4W
BUS AMPS: 225
MAIN: MLO
SPECIFICATION TYPE: BPB
MIN AIC RATING: 10,000
CIRCUITS: 42
ENCLOSURE: NEMA 1
MOUNTING: SURFACE
LOCATION: 1ST FLOOR

LOAD	LOAD DESCRIPTION	NOTE	VA	AMP	P	CKT	PHASE		CKT	P	AMP	VA	NOTE	LOAD DESCRIPTION	LOAD
9	PANEL AB			60	3	1	A		2	3	60			PANEL BB	9
				-	-	3		B	4	-	-				
				-	-	5		C	6	-	-				
9	PANEL CB			60	3	7	A		8	2	15	1082		TERMINAL UNIT	3
				-	-	9		B	10	-	-	1082			6
				-	-	11		C	12					SPACE	
9	PANEL BE	1	9360	100	3	13	A		14					SPACE	
			8160	-	-	15		B	16					SPACE	
			8040	-	-	17		C	18					SPACE	
	SPACE					19	A		20					SPACE	
	SPACE					21		B	22					SPACE	
	SPACE					23		C	24					SPACE	
	SPACE					25	A		26					SPACE	
	SPACE					27		B	28					SPACE	
	SPACE					29		C	30					SPACE	
	SPACE					31	A		32					SPACE	
	SPACE					33		B	34					SPACE	
	SPACE					35		C	36					SPACE	
	SPACE					37	A		38					SPACE	
	SPACE					39		B	40					SPACE	
	SPACE					41		C	42					SPACE	

LOAD SUMMARY AND CODE DEFINITIONS		CONNECTED KVA PH A	PH B	PH C	TOTAL	% DIV	NEC TOTAL	NOTES:
1	LIGHTING =					125%		ALL CIRCUITS IN THIS PANEL ARE EXISTING, UON.
2	RECEPTACLES =					10K+50%		1. PROVIDE NEW CIRCUIT BREAKER IN EXISTING SPACE
3	MOTORS =	1.1			1.1	100%	1.1	
4	LARGEST MOTOR =					125%		
5	MISC. NON-CONTINUOUS =					100%		
6	MISC. CONTINUOUS =		1.1		1.1	125%	1.4	
7	NON-COINCIDENTAL =					0%		
8	SPARE =					100%		
9	OTHER =	9.4			9.4	100%	9.4	
TOTAL KVA (PHASE)		10.4	1.1		11.5		11.8	
TOTAL AMPERES		86.9	9.0		32.0		32.7	

PANEL BA

VOLTAGE: 208Y/120V, 3PH, 4W
BUS AMPS: 225
MAIN: MLO
SPECIFICATION TYPE: BPB
MIN AIC RATING: 10,000
CIRCUITS: 42
ENCLOSURE: NEMA 1
MOUNTING: SURFACE
LOCATION: 2ND FLOOR ELECTRIC ROOM

LOAD	LOAD DESCRIPTION	NOTE	VA	AMP	P	CKT	PHASE		CKT	P	AMP	VA	NOTE	LOAD DESCRIPTION	LOAD
2	REC - TELECOM OUTLETS			20	1	1	A		2	1	20			REC - GENERAL PURPOSE	2
2	REC - GENERAL PURPOSE			20	1	3		B	4	1	20			REC - GENERAL PURPOSE	2
2	REC - TELECOM OUTLETS			20	1	5		C	6	1	20			REC - COPY OUTLETS	2
2	REC - GENERAL PURPOSE			20	1	7	A		8	1	20			REC - GENERAL PURPOSE	2
2	REC - GENERAL PURPOSE			20	1	9		B	10	1	20			REC - GENERAL PURPOSE	2
2	REC - GENERAL PURPOSE			20	1	11		C	12	1	20			REC - GENERAL PURPOSE	2
2	REC - GENERAL PURPOSE			20	1	13	A		14	1	20			REC - GENERAL PURPOSE	2
1	LTG - CORRIDOR		384	20	1	15		B	16	1	20			REC - GENERAL PURPOSE	2
1	LTG - OFFICES, RECEPTION, STORAGE		1278	20	1	17		C	18	1	20			REC - GENERAL PURPOSE	2
1	LTG - CONFERENCE, BREAK RM, WORKROOM		414	20	1	19	A		20	1	20			REC - GENERAL PURPOSE	2
1	LTG			20	1	21		B	22	1	20			REC - GENERAL PURPOSE	2
1	LTG			20	1	23		C	24	1	20			REC - GENERAL PURPOSE	2
1	LTG			20	1	25	A		26	1	20			REC - GENERAL PURPOSE	2
1	LTG			20	1	27		B	28	1	20			REC - GENERAL PURPOSE	2
1	LTG			20	1	29		C	30	1	20			REC - GENERAL PURPOSE	2
2	REC - GENERAL PURPOSE			20	1	31	A		32	2	30			WATER HEATER	
2	REC - GENERAL PURPOSE			20	1	33		B	34						
2	REC - COPIER			20	1	35		C	36	1	20			REC - GENERAL PURPOSE	2
2	REC - COPIER			20	1	37	A		38	1	20			REC - GENERAL PURPOSE	2
1	LTG			20	1	39		B	40	1	20			REC - GENERAL PURPOSE	2
2	PHOTO EYE			20	1	41		C	42	1	20			REC - GENERAL PURPOSE	2

LOAD SUMMARY AND CODE DEFINITIONS		CONNECTED KVA PH A	PH B	PH C	TOTAL	% DIV	NEC TOTAL	NOTES:
1	LIGHTING =	0.4	0.4	1.3	2.1	125%	2.6	ALL CIRCUITS IN THIS PANEL ARE EXISTING, UON.
2	RECEPTACLES =					10K+50%		
3	MOTORS =					100%		
4	LARGEST MOTOR =					125%		
5	MISC. NON-CONTINUOUS =					100%		
6	MISC. CONTINUOUS =					125%		
7	NON-COINCIDENTAL =					0%		
8	SPARE =					100%		
9	OTHER =					100%		
TOTAL KVA (PHASE)		0.4	0.4	1.3	2.1		2.6	
TOTAL AMPERES		3.4	3.2	10.6	5.8		7.2	

PANEL BB

VOLTAGE: 208Y/120V, 3PH, 4W
BUS AMPS: 100
MAIN: MLO
SPECIFICATION TYPE: BPB
MIN AIC RATING: 10,000
CIRCUITS: 24
ENCLOSURE: NEMA 1
MOUNTING: SURFACE
LOCATION: 2ND FLOOR ELECTRIC ROOM

LOAD	LOAD DESCRIPTION	NOTE	VA	AMP	P	CKT	PHASE		CKT	P	AMP	VA	NOTE	LOAD DESCRIPTION	LOAD
3	EXHAUST FAN RM 208	1		15	1	1	A		2	1	15		1	REC - EXHAUST FAN RM 207	3
2	REC - COMPUTER TERM			20	1	3		B	4	1	20			REC - COMPUTER TERM	2
2	REC - COMPUTER TERM			20	1	5		C	6	1	20			REC - COMPUTER TERM	2
2	REC - COMPUTER TERM			20	1	7	A		8	1	20			REC - COMPUTER TERM	2
2	REC - COMPUTER TERM			20	1	9		B	10	1	20			REC - COMPUTER TERM	2
2	REC - COMPUTER TERM			20	1	11		C	12	1	20			REC - COMPUTER TERM	2
2	REC - COMPUTER TERM			20	1	13	A		14	2	20			REC - COMPUTER TERM	2
2	REC - COMPUTER TERM			20	2	15		B	16						
						17		C	18	1	20			REC - COMPUTER TERM	2
2	REC - COMPUTER TERM			20	1	19	A		20	1	20			REC - COMPUTER TERM	2
2	REC - COMPUTER TERM			20	1	21		B	22	1	20			REC - COMPUTER TERM	2
2	REC - COMPUTER TERM			20	1	23		C	24	1	20			REC - COMPUTER TERM	2
2	REC - COMPUTER TERM			20	1	25	A		26	1	20		1	REC - REFRIGERATOR RM 207	2

LOAD SUMMARY AND CODE DEFINITIONS		CONNECTED KVA PH A	PH B	PH C	TOTAL	% DIV	NEC TOTAL	NOTES:
1	LIGHTING =					125%		1. ADDED LOADS AS PART OF BUILDING UPDATES
2	RECEPTACLES =					10K+50%		ALL CIRCUITS IN THIS PANEL ARE EXISTING, UON.
3	MOTORS =					100%		
4	LARGEST MOTOR =					125%		
5	MISC. NON-CONTINUOUS =					100%		
6	MISC. CONTINUOUS =					125%		
7	NON-COINCIDENTAL =					0%		
8	SPARE =					100%		
9	OTHER =					100%		
TOTAL KVA (PHASE)								
TOTAL AMPERES								

PANEL BC

VOLTAGE: 208Y/120V, 3PH, 4W
BUS AMPS: 100
MAIN: MLO
SPECIFICATION TYPE: BPB
MIN AIC RATING: 10,000
CIRCUITS: 24
ENCLOSURE: NEMA 1
MOUNTING: SURFACE
LOCATION: 2ND FLOOR ELECTRIC ROOM

LOAD	LOAD DESCRIPTION	NOTE	VA	AMP	P	CKT	PHASE		CKT	P	AMP	VA	NOTE	LOAD DESCRIPTION	LOAD
2	REC - COMPUTER TERM			20	1	1	A		2	1	20			REC - COMPUTER TERM	2
2	REC - COMPUTER TERM			20	1	3		B	4	1	20			REC - COMPUTER TERM	2
2	REC - COMPUTER TERM			20	1	5		C	6	1	20			REC - COMPUTER TERM	2
2	REC - COMPUTER TERM			20	1	7	A		8	1	20			REC - COMPUTER TERM	2
2	REC - COMPUTER TERM			20	1	9		B	10	1	20			REC - COMPUTER TERM	2
2	REC - COMPUTER TERM			20	1	11		C	12	1	20			REC - COMPUTER TERM	2
2	REC - COMPUTER TERM			20	1	13	A		14	1	20			REC - COMPUTER TERM	2
3	TERMINAL UNIT		915	15	2	15		B	16	1	20			REC - COMPUTER TERM	2
3			915	-	-	17		C	18	1	20			REC - REFRIGERATOR RM 207	2
5	WATER HEATER		2385	25	2	19	A		20	1	20	1080	1	REC - OFFICE TBD	2
5			2385	-	-	21		B	22	1	20	1080	1	REC - OFFICE TBD	2
	SPACE					23		C	24						2
	SPACE					25	A		26						

LOAD SUMMARY AND CODE DEFINITIONS		CONNECTED KVA PH A	PH B	PH C	TOTAL	% DIV	NEC TOTAL	NOTES:
1	LIGHTING =					125%		1. NEW CIRCUIT AVAILABLE FOR REMODEL
2	RECEPTACLES =	1.1	1.1		2.2	10K+50%	2.2	
3	MOTORS =		0.9	0.9	1.8	100%	1.8	
4	LARGEST MOTOR =					125%		
5	MISC. NON-CONTINUOUS =	2.4	2.4		4.8	100%	4.8	
6	MISC. CONTINUOUS =					125%		
7	NON-COINCIDENTAL =					0%		
8	SPARE =					100%		
9	OTHER =					100%		
TOTAL KVA (PHASE)		3.5	4.4	0.9	8.8		8.8	
TOTAL AMPERES		28.9	36.5	7.6	24.3		24.3	

PANEL BD

VOLTAGE: 208Y/120V, 3PH, 4W
BUS AMPS: 100
MAIN: MLO
SPECIFICATION TYPE: LOAD CENTER
MIN AIC RATING: 10,000
CIRCUITS: 24
ENCLOSURE: NEMA 1
MOUNTING: RECESSED
LOCATION: SECOND FLOOR BREAK ROOM

LOAD	LOAD DESCRIPTION	NOTE	VA	AMP	P	CKT	PHASE		CKT	P	AMP	VA	NOTE	LOAD DESCRIPTION	LOAD
5	RANGE - BREAK ROOM		1200	20	2	1	A		2	1	20	180		REC - CONFERENCE ROOM COUNTER GFCI	2
			1200	-	-	3		B	4	1	20	720		REC - CONFERENCE ROOM COUNTER GFCI	2
2	REC- BREAK ROOM COUNTER GFCI		280	20	1	5		C	6	1	20	360		REC - CONFERENCE ROOM COUNTER GFCI	2
2	REC- BREAK ROOM COUNTER GFCI		180	20	1	7	A		8	1	20	540		REC - CONFERENCE ROOM	2
2	REC- BREAK ROOM COUNTER GFCI		180	20	1	9		B	10	1	20	720		REC - CONFERENCE ROOM	2
2	REC- BREAK ROOM REFRIGERATOR		1200	20	1	11		C	12	1	20	1200		REC - WORK ROOM COPIER	5
2	REC - BREAK ROOM		540	20	1	13	A		14	1	20			SPARE	2
2	SPARE			20	1	15		B	16	1	20			SPARE	2
2	SPARE			20	1	17		C	18	1	20			SPARE	2
2	SPARE			20	1	19	A		20	-	-			SPACE W/ HARDWARE	-
2	SPARE			20	1	21		B	22	-	-			SPACE W/ HARDWARE	-
	SPACE W/ HARDWARE			-	-	23		C	24	-	-			SPACE W/ HARDWARE	-

LOAD SUMMARY AND CODE DEFINITIONS		CONNECTED KVA PH A	PH B	PH C	TOTAL	% DIV	NEC TOTAL	NOTES:
1	LIGHTING =					125%		1. NEW LOADCENTER ADDED THIS PROJECT
2	RECEPTACLES =	1.4	1.6	1.8	4.9	10K+50%	4.9	
3	MOTORS =					100%		
4	LARGEST MOTOR =					125%		
5	MISC. NON-CONTINUOUS =	1.2		1.2	2.4	100%	2.4	
6	MISC. CONTINUOUS =					125%		
7	NON-COINCIDENTAL =					0%		
8	SPARE =					100%		
9	OTHER =					80%		
TOTAL KVA (PHASE)		2.6	1.6	3.0	7.3		7.3	
TOTAL AMPERES		22.0	13.5	25.3	20.3		20.3	

PANEL BE

VOLTAGE: 208Y/120V, 3PH, 4W
BUS AMPS: 100
MAIN: MLO
SPECIFICATION TYPE: LOAD CENTER
MIN AIC RATING: 10,000
CIRCUITS: 30
ENCLOSURE: NEMA 1
MOUNTING: RECESSED
LOCATION: SECOND FLOOR

LOAD	LOAD DESCRIPTION	NOTE	VA	AMP	P	CKT	PHASE		CKT	P	AMP	VA	NOTE	LOAD DESCRIPTION	LOAD
2	MULTI-OUTLET - NORTH ACTIVITY SPACE 212		1200	20	1	1	A		2	1	20	1200		RCPT - WEST ACTIVITY SPACE 212	2
2	RCPT - NORTH ACTIVITY SPACE 212		1200	20	1	3		B	4	1	20	1200		RCPT - WEST ACTIVITY SPACE 212	2
2	RCPT - SOUTH ACTIVITY SPACE 212		1200	20	1	5		C	6	1	20	1200		RCPT - WEST ACTIVITY SPACE 212	2
2	RCPT - SOUTH ACTIVITY SPACE 212		1200	20	1	7	A		8	1	20	1200		RCPT - WEST ACTIVITY SPACE 212	2
2	RCPT - SOUTH ACTIVITY SPACE 212		1200	20	1	9		B	10	1	20	1200		RCPT - WEST ACTIVITY SPACE 212	2
2	RCPT - SOUTH ACTIVITY SPACE 212		1200	20	1	11		C	12	1	20	1200		RCPT FLOOR BOX - ACTIVITY SPACE 212	2
2	RCPT - SOUTH ACTIVITY SPACE 212		1200	20	1	13	A		14	1	20	1200		RCPT FLOOR BOX - ACTIVITY SPACE 212	2
2	RCPT - SOUTH ACTIVITY SPACE 212		1200	20	1	15		B	16	1	20		1	SPARE	
2	SPARE OR RCPT	1	1080	20	1	17		C	18	1	20			SPARE	
2	SPARE OR RCPT	1	1080	20	1	19	A		20	1	20			SPARE	
2	SPARE OR RCPT	1	1080	20	1	21		B	22	1	20			SPARE	
2	SPARE OR RCPT	1	1080	20	1	23		C	24	1	20			SPARE	
2	SPARE OR RCPT	1	1080	20	1	25	A		26	1				SPACE W/ HARDWARE	
2	SPARE OR RCPT	1	1080	20	1	27		B	28	1				SPACE W/ HARDWARE	
2	SPARE OR RCPT	1	1080	20	1	29		C	30	1				SPACE W/ HARDWARE	

LOAD SUMMARY AND CODE DEFINITIONS		CONNECTED KVA PH A	PH B	PH C	TOTAL	% DIV	NEC TOTAL	NOTES:
1	LIGHTING =					125%		1. SPARE BREAKER MAY BE USED FOR CIRCUITS TO OFFICE AREAS PER LOADING
2	RECEPTACLES =	9.4	8.2	8.0	25.6	10K+50%	17.8	GUIDELINES. LABEL WITH ACTUAL ROOM NUMBER(S) OF CIRCUIT
3	MOTORS =					100%		
4	LARGEST MOTOR =					125%		
5	MISC. NON-CONTINUOUS =					100%		
6	MISC. CONTINUOUS =					125%		
7	NON-COINCIDENTAL =					0%		
8	SPARE =					100%		
9	OTHER =					80%		
TOTAL KVA (PHASE)		9.4	8.2	8.0	25.6		17.8	
TOTAL AMPERES		77.9	67.9	67.0	70.9		49.4	

NOTE: 11"x 17" PRINT IS HALF SIZE

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CONSTRUCTION DOCUMENTS

2nd Floor STA Office Renovation

SITKA TRIBE OF ALASKA

No.	Description	Date

SHEET TITLE:
ELECTRICAL PANEL SCHEDULES

DATE: 03/05/24
DRAWN: RDP/JLC
CHECKED: RDP

SHEET NO.
E601