

ALASKA STATE OFFICE BUILDING 7TH & 8TH FLOOR RENOVATIONS

STATE OF ALASKA
SHARED SERVICES OF ALASKA

Facilities Section

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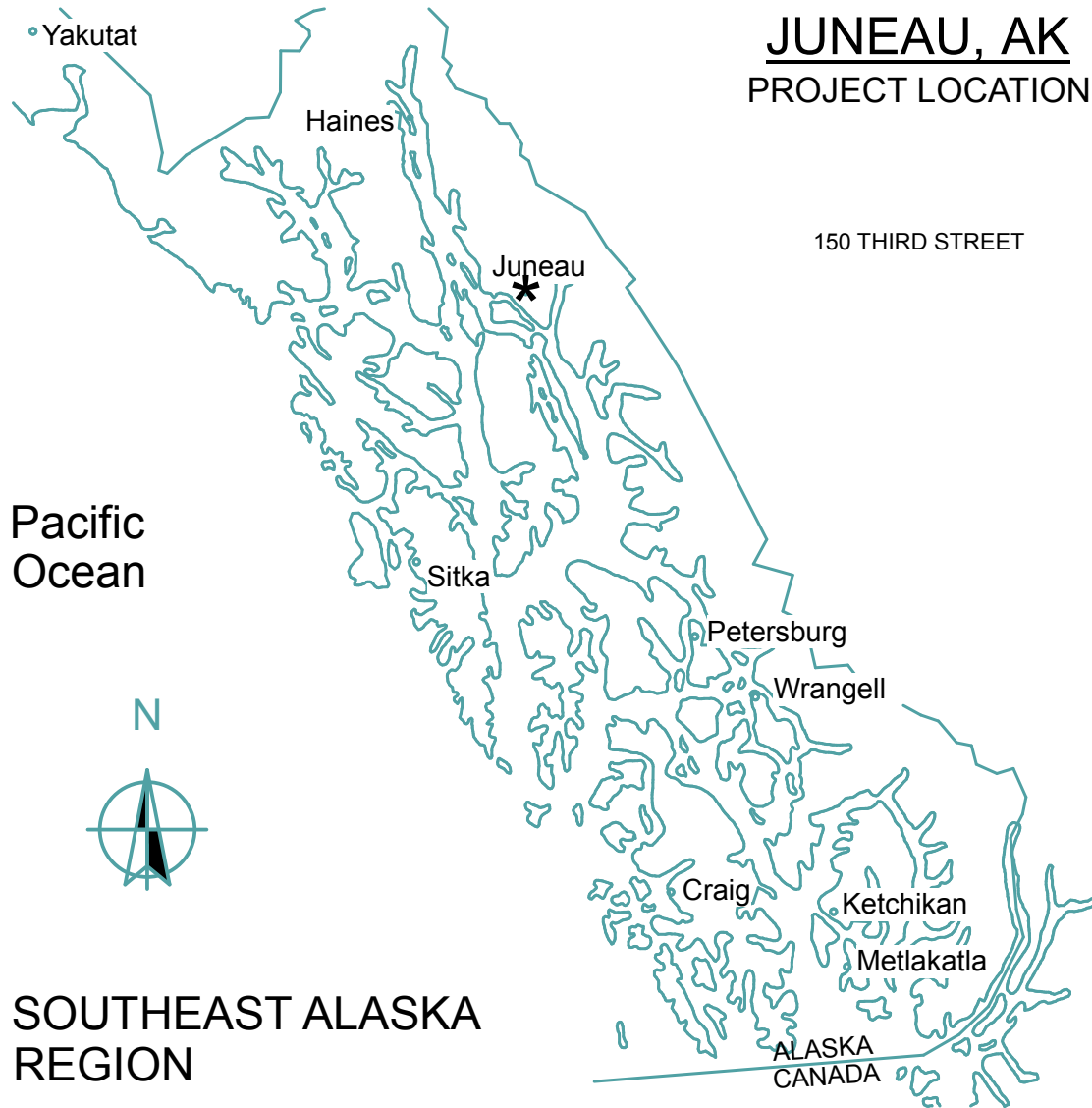
ELECTRICAL ENGINEER

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LOCATION MAP



APPLICABLE CODES

INTERNATIONAL BUILDING CODE 2009 EDITION (I.B.C.)
INTERNATIONAL EXISTING BUILDING CODE 2009 EDITION (I.B.C.)
ALL CODES REFERENCED ARE TO BE USED AS AMENDED BY THE STATE OF ALASKA AND THE CITY AND BOROUGH OF JUNEAU.

SCOPE OF WORK SUMMARY

THE ALASKA STATE OFFICE BUILDING IS A DOWNTOWN JUNEAU OFFICE BUILDING COMPRISED OF ELEVEN FLOORS, INCLUDING THREE FLOORS OF PARKING ON THE LOWER LEVELS. THE BUILDING IS MECHANICALLY VENTILATED AND IS HEATED WITH AN OIL-FIRED BOILER. PRIMARY ELECTRICAL DISTRIBUTION IS FROM LEVELS 6 AND 7. THE WORK OF THE CONTRACT IS PRIMARILY ON LEVEL 7 AND LEVEL 8, WITH SOME ACCESS TO THE CEILING CAVITIES ON LEVELS 6 AND 7 TO SERVE ELECTRICAL AND PLUMBING ON LEVELS 7 AND 8.

THE ELECTRICAL RENOVATION IS A POWER DISTRIBUTION UPGRADE AND IS DEFINED IN THE ELECTRICAL DRAWINGS. VENTILATION SHALL BE LIMITED TO MODIFYING EXISTING BUILDING VENTILATION SUPPLY AND RETURN LOCATIONS TO SERVE RECONFIGURATION OF SPACES. PLUMBING SHALL SERVE A NEW BREAK ROOM.

ALSO INCLUDED IN THE SCOPE OF WORK IS HAZARDOUS MATERIALS ABATEMENT OF MATERIALS AFFECTED BY THE PLUMBING, MECHANICAL AND ELECTRICAL UPGRADES, AND REMOVAL OF EQUIPMENT. COORDINATE REMOVAL AND PATCHING WITH HAZARDOUS MATERIALS ABATEMENT SPECIFICATION AND NOTES.

THE CONSTRUCTION SHALL BE COMPLETED IN A SINGLE CONSTRUCTION PHASE AND COORDINATED W/OWNERS ONGOING USE OF THE BUILDING.

HAZARDOUS MATERIALS NOTES The Alaska State Office Building basement has has asbestos containing materials in fireproofing above the suspended ceiling, at original gypsum wall board assemblies, and at some floor tile areas. Carefully coordinate the work with hazmat drawings and specification.

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GENERAL NOTES

- THE CONTRACTOR IS RESPONSIBLE FOR THE FABRICATION AND INSTALLATION OF ALL MATERIALS AND EQUIPMENT IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE (IBC 2009 EDITION, AS AMENDED BY THE CBJ) AND ALL ITS RELATED DOCUMENTS AND AMENDMENTS. ALL MATERIALS SHALL BE STORED, HANDLED, AND INSTALLED PER MANUFACTURERS' OR MATERIAL ASSOCIATIONS' INSTRUCTIONS AND RECOMMENDATIONS.
- THE CONTRACTOR SHALL COORDINATE AND VERIFY ALL CONDITIONS AFFECTING THE PROJECT SCOPE OF WORK, AND WILL NOTIFY THE OWNER OF ANY DISCREPANCIES, AND/OR VARYING CONDITIONS. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION RELATED ACTIVITIES WITH THE OWNER PRIOR TO EXECUTING ANY WORK OF THIS CONTRACT.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO THE FABRICATION AND INSTALLATION OF ANY MATERIALS. CONTRACTOR SHALL PROTECT ALL WORK AREAS FROM DAMAGE DUE TO CONSTRUCTION, RELATED WORK, AND WEATHER. DAMAGED AREAS WILL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL COORDINATE THE EXTENT OF REMOVAL AND REINSTALLATION OF ANY ELECTRICAL AND FIRE PROTECTION DEVICES, PIPING, WIRES AND CONDUITS AS REQUIRED TO COMPLETE THE WORK, AND IS RESPONSIBLE FOR THE SATISFACTORY REACTIVATION OF THOSE DEVICES WITH THE COMPLETION OF THE WORK. DEVICES IDENTIFIED ON THE ARCHITECTURAL PLANS AND REFLECTED CEILING PLANS ARE FOR REFERENCE AND DO NOT REFLECT ALL DEVICES, CONDUIT AND WIRING AND SPRINKLER PIPING.
- UTILITIES: OWNER WILL FURNISH ELECTRICAL POWER (120V) FOR EQUIPMENT AND LIGHTING. CONTRACTOR IS REQUIRED TO FURNISH ALL TEMPORARY SERVICES, CONSTRUCTION LIGHTING AND HEAT.
- INSPECTION: THE CONTRACTOR IS TO NOTIFY OWNER OF DAMAGED MATERIALS IN EXCESS OF THOSE IDENTIFIED IN THE CONSTRUCTION DOCUMENTS OBSERVED DURING CONSTRUCTION. REPLACE DAMAGED MATERIALS AS DIRECTED AND AUTHORIZED BY THE OWNER. WORK OUTSIDE THE SCOPE OF THIS CONTRACT SHALL, ON THE AUTHORIZATION OF THE OWNER, BE REPLACED AT ADDITIONAL NEGOTIATED COST TO THE CONTRACT.
- THE CONTRACTOR SHALL ENSURE COORDINATION AND CONTINUITY BETWEEN TRADES, AND SHALL CONFIRM ALL CONDITIONS NECESSARY TO PROCEED WITH ANY COMPONENT OF THE WORK, INCLUDING PREPARATION OF ANY NEW OR EXISTING MATERIAL SUBSTRATE OR SURFACE TO RECEIVE FINISHES AND/OR EQUIPMENT.
- DRAWING SCALE: THIS SET OF DRAWINGS HAS BEEN PRODUCED WITH SCALE INDICATORS AND BARS TO PRINT FULL SIZE 22"X34" SHEET SETS. FOR THE PURPOSE OF CLARITY, 22"X34" DRAWING SETS WILL BE IDENTIFIED AS "FULL-SIZE" SETS, AND 11"X17" DRAWING SETS WILL BE REFERRED TO AS "HALF-SIZE" SETS. FOR THE PURPOSE OF ACCURACY, VERIFY ALL MEASURED DIMENSIONS WITH SCALE BARS PROVIDED FOR AND THE SCALE VERIFICATION BAR IN THE ARCHITECTURAL TITLE BLOCK.

BID DOCUMENTS

August 9, 2017

ADDENDUM NUMBER

ATTACHMENT NUMBER

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1" ACTUAL

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DRAWN BY: SB

G0.1 TITLE SHEET / GENERAL INFO

PROJECT DESIGNATION NUMBER

2018-0222-3725

STATE	YEAR
ALASKA	2017

ARCHITECTURAL SHEET SPECIFICATION

LISTED MANUFACTURER'S ARE BASIS OF DESIGN. EQUAL SUBSTITUTIONS WILL BE EVALUATED BY ARCHITECT PROVIDED REQUEST DEMONSTRATES, THROUGH SUBMITTAL OF MANUFACTURER'S DOCUMENTATION, AN EQUAL OR BETTER PRODUCT MEETING THE EXPECTED DESIGN AND PERFORMANCE CRITERIA.

PRODUCT DATA AND SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL BY OWNER AND ARCHITECT FOR EACH SPECIFICATION SECTION. SUBMIT SINGLE DIGITAL (PDF, OPTIMIZED) DOCUMENT PER DIVISION NUMBER.

035415 HYDRAULIC CEMENT FLOORING UNDERLAYMENT:
HYDRAULIC CEMENT BASED, POLYMER MODIFIED, SELF LEVELING PRODUCT THAT CAN BE APPLIED IN A MINIMUM UNIFORM THICKNESS OF ¼" AND FEATHERED AT EDGES TO MATCH ADJACENT FLOOR ELEVATIONS. SYSTEM TO INCLUDE ANY REQUIRED PRIMERS AND FLOOR PREPARATION, AND SHALL HAVE VOC OF NO MORE THAN 200 G/L 28-DAY COMPRESSIVE STRENGTH OF NO LESS THAN 4000 PSI. ANTICIPATING FILLING ANY CRACKS AND VOIDS IN SURFACE.

064116PLASTIC LAMINATE COUNTERTOPS AND BACKSPLASH
- QUALITY: "ARCHITECTURAL WOODWORKING STANDARDS" GRADE PREMIUM, FLUSH OVERLAY.
- HIGH PRESSURE DECORATIVE LAMINATE (HDPL): NEMA LD3, GRADE HGS
- HORIZONTAL SURFACES: HGS
- VERTICAL SURFACES: VGS
- EDGES: HGS WHERE OTHER THAN WOOD.
-- COUNTERTOP: HDPL TOP, 1-1/2" THICK, EDGE TO BE HARDWOOD 4/4", WHITE OAK OR ROCK MAPLE.
- BACKSPLASH: HDPL TO MATCH TOP, 4" TALL, 3/4" THICK, SELF-EDGE. SEAL TO TOP.
- PARTICLE BOARD: ANSI A208.1, GRADE M-2, WITH BINDER CONTAINING NO UREA FORMALDEHYDE.
- GLUES: CLEAR CONTACT CEMENT FOR LAMINATE, HOT MELT ADHESIVE FOR EDGES. NO UREA FORMALDEHYDE.
- NO JOINTS IN COUNTERTOP TOP SUBSTRATE, HDPL OR EDGE WITHIN 30" OF SINK CUTOUT.
- COLORS: FORMICA EARTHEN WARP 5880-58 OR AS SELECTED BY OWNER FROM MANUFACTURER'S FULL RANGE.
- SUBMIT MEASURED SHOP DRAWING ILLUSTRATING COUNTERTOP EDGE AND BACKSPLASH DETAIL
- CABINET HARDWARE; FINISH = BRUSHED NICKLE WHERE EXPOSED:
- HINGES: 2-3/4 5 KNUCKLE BUTT HINGES
- WIRE PULLS: BACK MOUNTED SOLID METAL
- CATCHES: MAGENTIC BHMA A156.9 B03141
- SHELF RESTS: BHMA A156.9 B04013
- DRAWER SLIDES: BHMA A156.9; GRADE 1, SIDE MOUNTED TYPE EXTENDING UNDER DRAWER, FULL EXTENSION
- DOOR AND DRAWER LOCKS: BHMA A156.11 AT ALL, WITH REPLICABLE KEYING TO MATCH BUILDING KEYING SYSTEM.

079200 JOINT SEALANTS
- SILICON SEALANTS AT PLUMBING FIXTURES AND COUNTERTOPS
- ACRYLIC SEALANTS AT WALLBOARD CONTROL JOINTS

081113HOLLOW METAL DOOR AND BORROWED LIGHT FRAMES;
- 16GA HOLLOW METAL FRAME, PAINTED, FULLY WELDED DOUBLE RABBET FRAME TO RECEIVE FLUSH WOOD DOORS, AND RELIGHT GLAZING, PROFILE X DEPTH OF WALL ASSEMBLY. POST INSTALLATION PACKAGE AS REQUIRED AT EXISTING WALLS, NO EXPOSED FASTENERS AT NEW WALLS. PROVIDE THREE SILENCERS PER DOOR. PROVIDE ALL CONTINUOUS STOPS FOR GLAZING. COORDINATE HARDWARE TEMPLATING WITH WOOD DOORS.

081416 FLUSH WOOD DOORS
- SOLID CORE WOOD VENEER FACE, STRUCTURAL COMPOSITE LUMBER HEAVY DUTY PERFORMANCE GRADE, FACTORY FINISHED, FITTED, AND TEMPLATED WOOD DOORS.
- GRADE PREMIUM WITH AA FACES, SELECT WHITE MAPLE, ROTARY CUT, SLIP MATCH. FACTORY FINISH CLEAR, SEMIGLOSS.
- LIGHT OPENINGS: TRIM FLUSH WITH SAME SPECIES AS DOOR FACE. CONTINUOUS FOAM GASKET, SET AND FILL FASTENERS.

087100 DOOR HARDWARE
- FINISHES: BRUSHED NICKLE OR STAINLESS STEEL FOR ALL EXPOSED SURFACES.
- COMMERCIAL MORTICE LOCKSETS: CORBIN/RUSSWIN OR SCHALAGE, REMOVABLE KEY CYLINDER TO ACCEPT KABA PEAKS CORES, STAINLESS STEEL FINISH, ADA LEVERS. NO SUBSTITUTIONS. #15 LEVER, "R" ROSE. COORDINATE ELECTRONIC LATCH RETRACTION (ELR) AND POWER SUPPLY WITH BUILDING CARD READER ACCESS SYSTEM AS NOTED.
-HINGES: FIVE-KNUCKLE BALL BEARING: STANLY FBB199 4.5X4.5 STAINLESS STEEL. ELECTRIC TRANSFER HINGE OR POWER TRANSFER CABLE BEST 8WDTL WHERE REQUIRED. ALL LATCHES SHALL FAIL SECURE.
- CLOSERS: LCN OR PRECISION, PER OWNER.
-KICK/MOP PLATES: BOTH SIDES OF ALL DOORS: 8" TALL X DOOR WIDTH LESS 2".
-DOOR STOPS: PROVIDE DOME FLOOR OR WALL STOP FOR EVERY OPENING.
-ELECTRIC DOOR STRIKE: GRADE 1, LISTED UL10C, WITH LATCH MONITOR SWITCH.

HARDWARE GROUPS:
1) SUITE ENTRY WITH CARD READER:
a. (2) HINGES
b. (1) POWER TRANSFER HINGE
c. (1) ELR MORTICE LOCKSET AND CYLINDER "STOREROOM" FUNCTION, WITH ADA LEVER AND ROSE.
d. (1) CLOSER
e. (2) KICK PLATES
f. (3) DOOR SILENCERS
g. (1) CARD READER AND POWER SUPPLY
h. (1) DOOR STOP
2) EXISTING DOOR RETROFIT
a. (1) MORTICE LOCKSET AND CYLINDER "STOREROOM" FUNCTION, WITH ADA LEVER AND ROSE.
b. (1) ELECTRIC STRIKE
c. (1) CARD READER AND POWER SUPPLY
d. (1) DOOR STOP
3) PASSAGEWAY
a. (3) HINGES
b. (1) MORTICE LOCKSET AND CYLINDER "PASSAGEWAY" FUNCTION, WITH ADA LEVER AND ROSE.
c. (1) CLOSER
d. (2) KICK PLATES
e. (3) DOOR SILENCERS
f. (1) DOOR STOP
4) OFFICE
a. (3) HINGES
b. (1) MORTICE LOCKSET AND CYLINDER "OFFICE" FUNCTION, WITH ADA LEVER AND ROSE.
c. (2) KICK PLATES
d. (3) DOOR SILENCERS
e. (1) DOOR STOP
5) STORAGE
a. (3) HINGES
b. (1) MORTICE LOCKSET AND CYLINDER "STORE ROOM" FUNCTION, WITH ADA LEVER AND ROSE.
c. (2) KICK PLATES
d. (3) DOOR SILENCERS
e. (1) DOOR STOP

092900 GYPSUM WALL BOARD:
- TYPE C, ASTM C 1396/C1396M, TYPE X, 5/8", OR TO MATCH EXISTING THICKNESS.
- JOINT TREATMENT MATERIAL: ASTM C 475/C475M
- JOINT TAPE: GLASS MESH OR PAPER
- SOUND ATTENUATION BLANKETS/BATTS: ASTM C 665, TYPE 1

096513 RESILIENT BASE AND ACCESSORIES: (PROVIDED UNDER SEPARATE CONTRACT).

096543 LINOLEUM FLOORING TILE: (PROVIDED UNDER SEPARATE CONTRACT).

096813 TILE CARPETING: (PROVIDED UNDER SEPARATE CONTRACT).

099123 INTERIOR PAINTING
GYPSUM WALLBOARD SURFACES
- PRIMER/SEALER, LATEX: MPI#50
- INTERMEDIATE COAT= SAME AS TOP COAT
- TOP COAT: LATEX MPI #140, GLOSS LEVEL 4
- COLOR: ACCENT BEHIND COUNTERTOP) SHERWIN WILLIAMS "PAPAYA 6610", OR AS SELECTED.
- ALL OTHER: OWNERS STANDARD WHITE.

101100VISUAL DISPLAY UNITS
- PROVIDE A TOTAL OF FOUR (4) 4 FOOT TALL BY 8 FOOT LONG ALUMINUM FRAMED, CERAMIC COATED FACE, DRY ERASE VISUAL DISPLAY BOARDS WITH MARKER TRAYS.

113100RESIDENTIAL APPLIANCES: PROVIDED BY OWNER. ROUGH IN FOR THE FOLLOWING:
REFRIGERATOR: GE #334460, MODEL #PSHS9PGZSS. WITH ICEMAKER.
DISHWASHER: GE 24" #GLDT696DSS
MICROWAVE COFFEE MAKER: KEURIG #359689 (X2)

115213PROJECTION SCREENS
PROVIDE AND INSTALL THREE (3) PROJECTION SCREENS, ONE FOR EACH OF THREE CONFERENCE ROOMS: BRACKET MOUNTED SPRING RETRACTING WITH MULTIPURPOSE 58 INCH X79 INCH VIEWING SURFACE OF VINYL COATED GLASS FIBER FABRIC.

122413 ROLLER WINDOW SHADES
END -DRIVEN SHADE BAND ROLLER WITH MANUAL BEADED CHAIN. 95% LIGHT FILTERING.
BRACKET OR END CAP MOUNTING WITHIN WIDTH OF RELIGHTS INDICATED.

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A0.1
ARCHITECTURAL SPECIFICATION

PROJECT DESIGNATION NUMBER

2018-0222-3725

STATE	YEAR
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August 9, 2017

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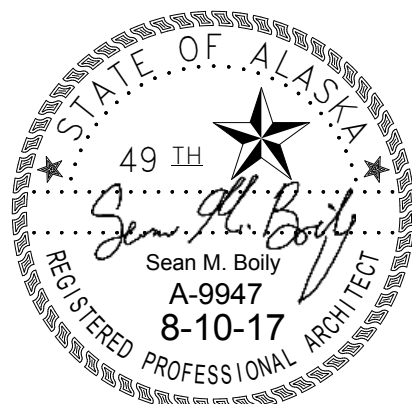
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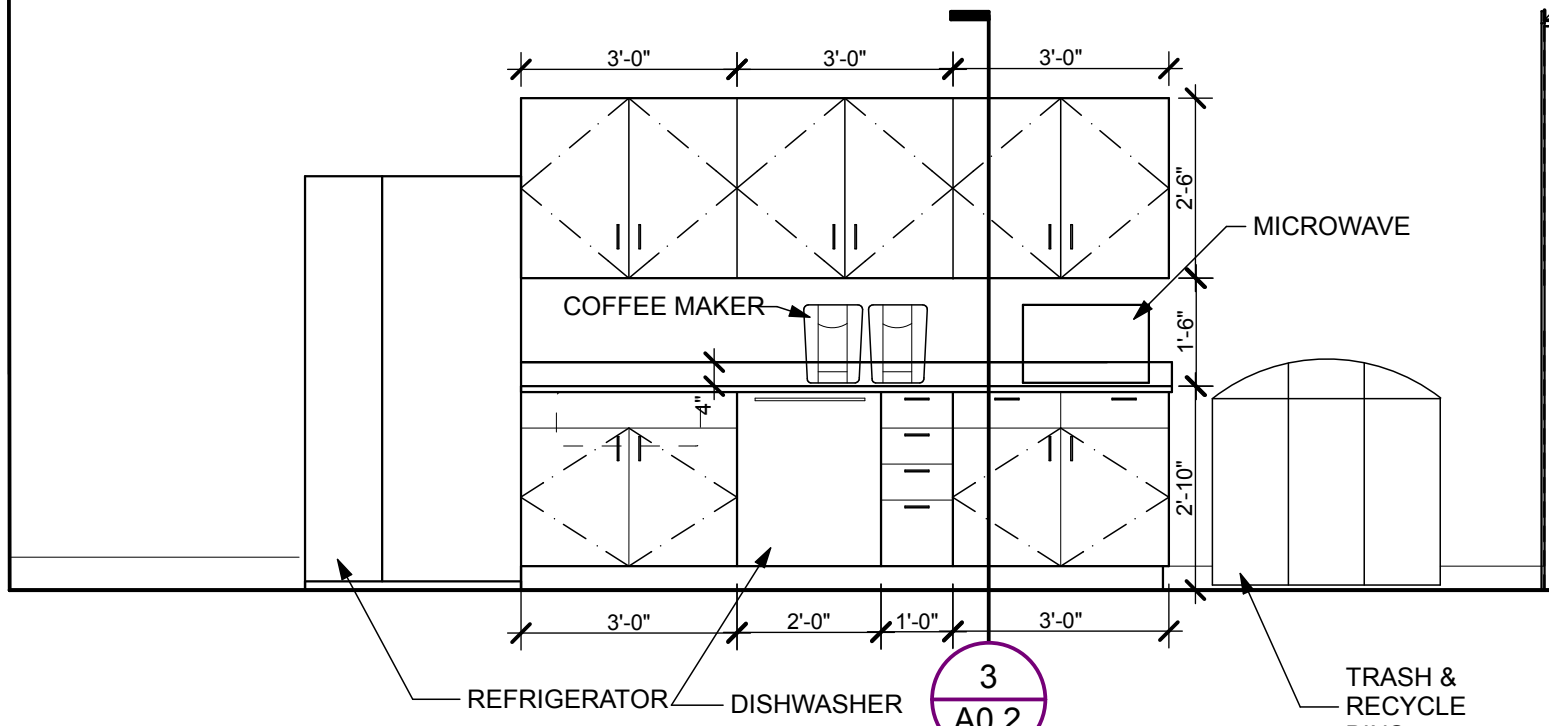
A0.2

ARCHITECTURAL
SCHEDULES &
ELEVATIONS

PROJECT IDENTIFICATION NUMBER

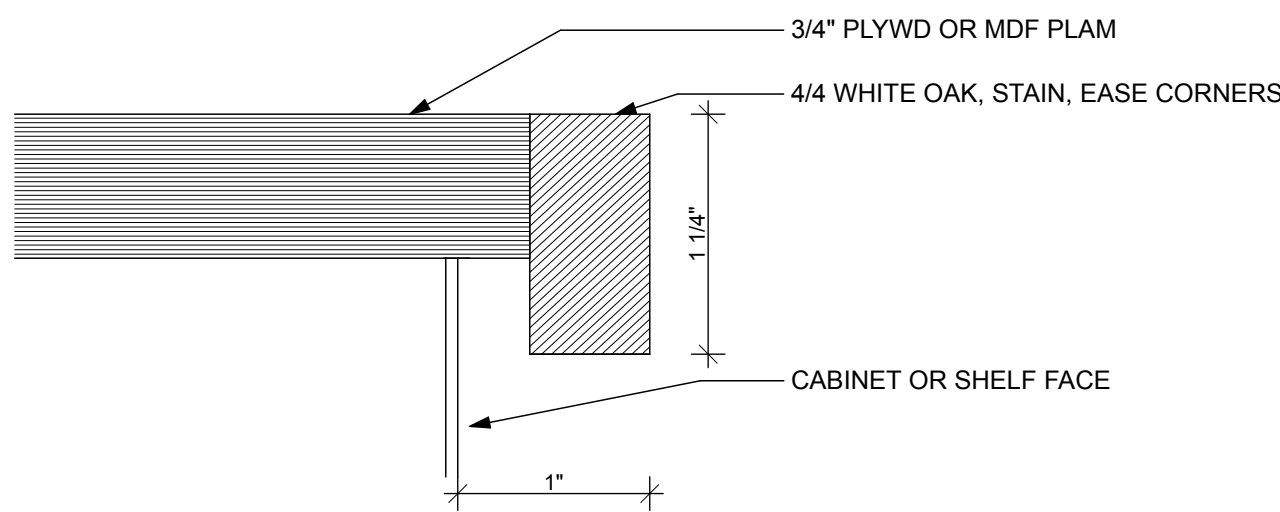
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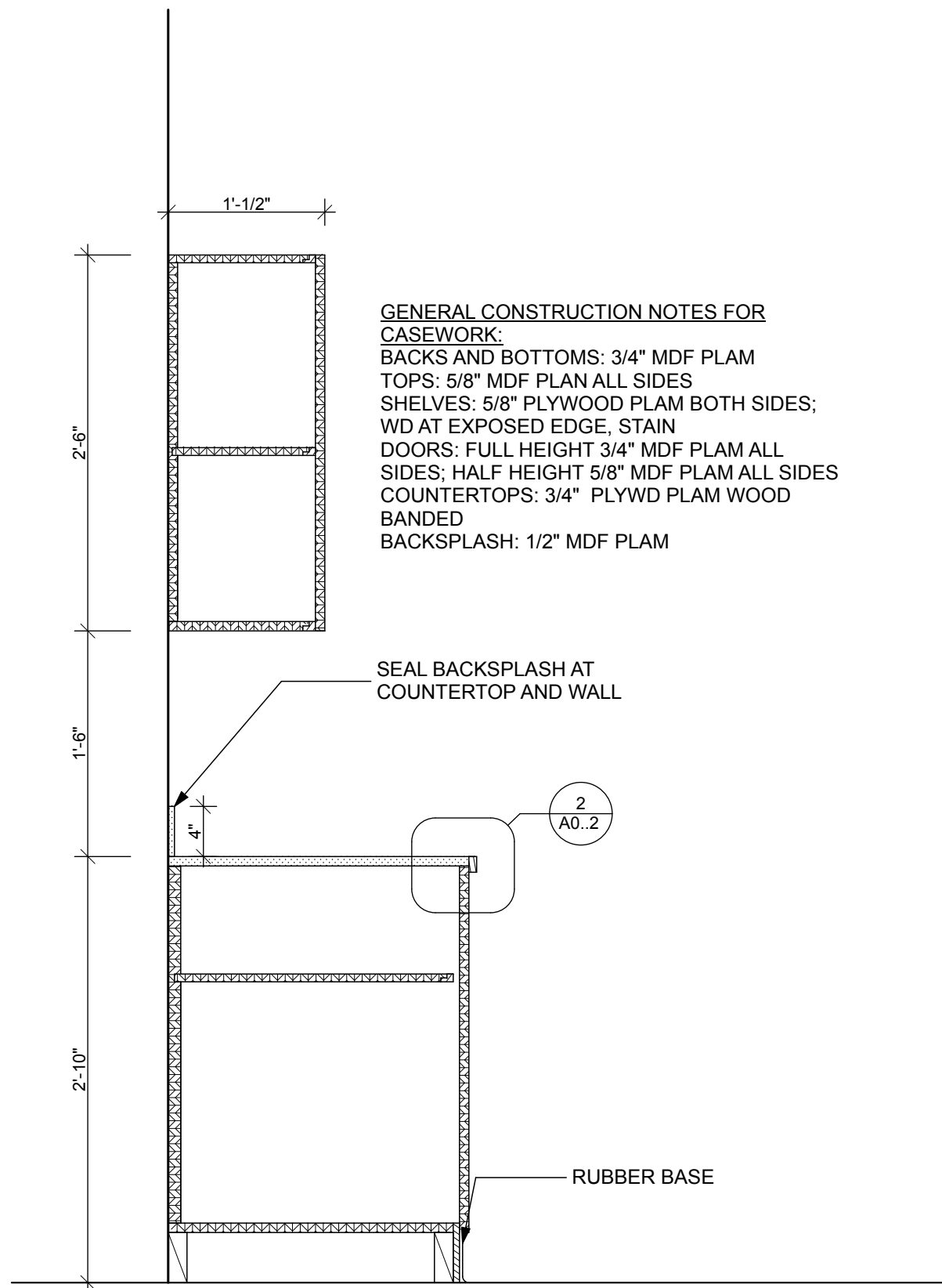
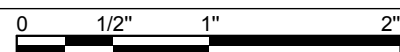
1 CAFE ELEVATION

SCALE: 3/8" = 1'-0"



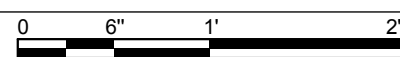
2 COUNTER EDGE DETAIL

SCALE: 1" = 1'-0"



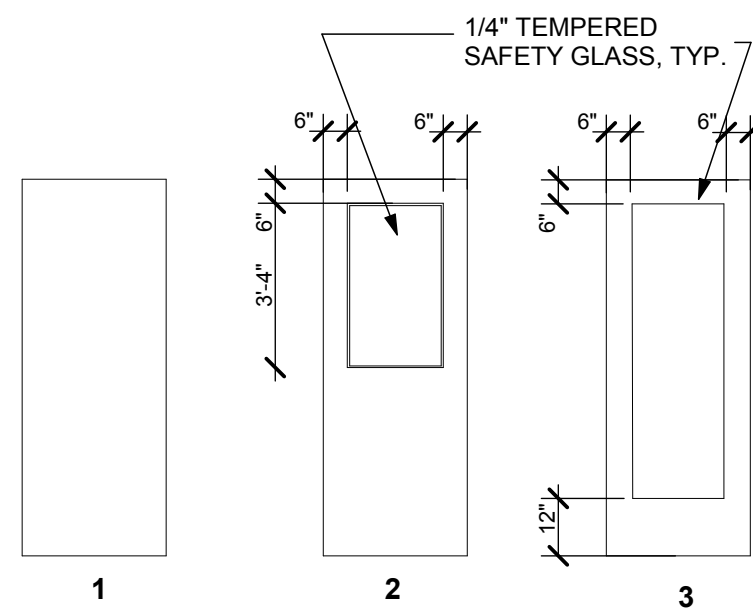
3 CABINET SECTION

SCALE: 1" = 1'-0"



DOOR AND FRAME SCHEDULE																		
Position	Mark	QTY	Renovation Status	Size		FIRE	DR MTRL	DR FIN	DR Type	FRM	FRM FIN	FRM Type	ACCESS CONTROL	Detail			Hardware Set	NOTES
				W	HT									Head	Jamb	Sill		
Interior																		
	701	1	New	4'-0"	7'-0"		WD	PREFIN	1	HM	PNT	1	YES	1/A0.3	1/A0.3		1	
	702	1	Salvaged	3'-0"	7'-0"		WD	PREFIN	1	HM	PNT	1	YES	1/A0.3	1/A0.3		2	INSTALL SALVAGED DOOR FRAME AND HARDWARE. VERIFY DIMENSIONS.
	703	1	New	3'-0"	7'-0"		WD	PREFIN	2	HM	PNT	1	YES	1/A0.3	1/A0.3		1	
	704	1	New	3'-0"	7'-0"		WD	PREFIN	3	HM	PNT	1	YES	1/A0.3	1/A0.3		1	3M FILM AT GLASS DOOR
	705	1	New	3'-0"	7'-0"		WD	PREFIN	3	HM	PNT	1	YES	1/A0.3	1/A0.3		3	3M FILM AT GLASS DOOR
	706	1	New	3'-0"	7'-0"		WD	PREFIN	2	HM	PNT	1	YES	1/A0.3	1/A0.3		4	
	707	1	Salvaged	3'-4"	7'-0"		HM	PNT	2	HM	PNT	1		1/A0.3	1/A0.3			INSTALL SALVAGED DOOR FRAME AND HARDWARE. VERIFY DIMENSIONS.
	708	1	Salvaged	3'-0"	7'-0"		HM	PNT	2	HM	PNT	1		1/A0.3	1/A0.3			INSTALL SALVAGED DOOR FRAME AND HARDWARE. VERIFY DIMENSIONS.
	709	1	New	3'-0"	7'-0"		WD	PREFIN	1	HM	PNT	1		1/A0.3	1/A0.3		1	
	710	1	New	3'-0"	7'-0"		WD	PREFIN	1	HM	PNT	1		1/A0.3	1/A0.3		5	
	801	1	New	3'-0"	7'-0"		WD	PREFIN	2	HM	PNT	1	YES	1/A0.3	1/A0.3		4	
	802	1	New	3'-0"	7'-0"		WD	PREFIN	3	HM	PNT	1	YES	1/A0.3	1/A0.3		3	3M FILM AT GLASS DOOR
	803	1	New		7'-0"			PREFIN	2	HM	PNT	1		1/A0.3	1/A0.3		4	
	804	1	New	3'-0"	7'-0"		WD	PREFIN	2	HM	PNT	1		1/A0.3	1/A0.3		4	
	805	1	New	3'-0"	7'-0"		WD	PREFIN	2	HM	PNT	1		1/A0.3	1/A0.3		3	
	806	1	New	3'-0"	7'-0"		WD	PREFIN	2	HM	PNT	1		1/A0.3	1/A0.3		3	
	807	1	New	3'-0"	7'-0"		WD	PREFIN	2	HM	PNT	1		1/A0.3	1/A0.3		4	
	808	1	New	3'-0"	7'-0"		WD	PREFIN	3	HM	PNT	1	YES	1/A0.3	1/A0.3		3	3M FILM AT GLASS DOOR

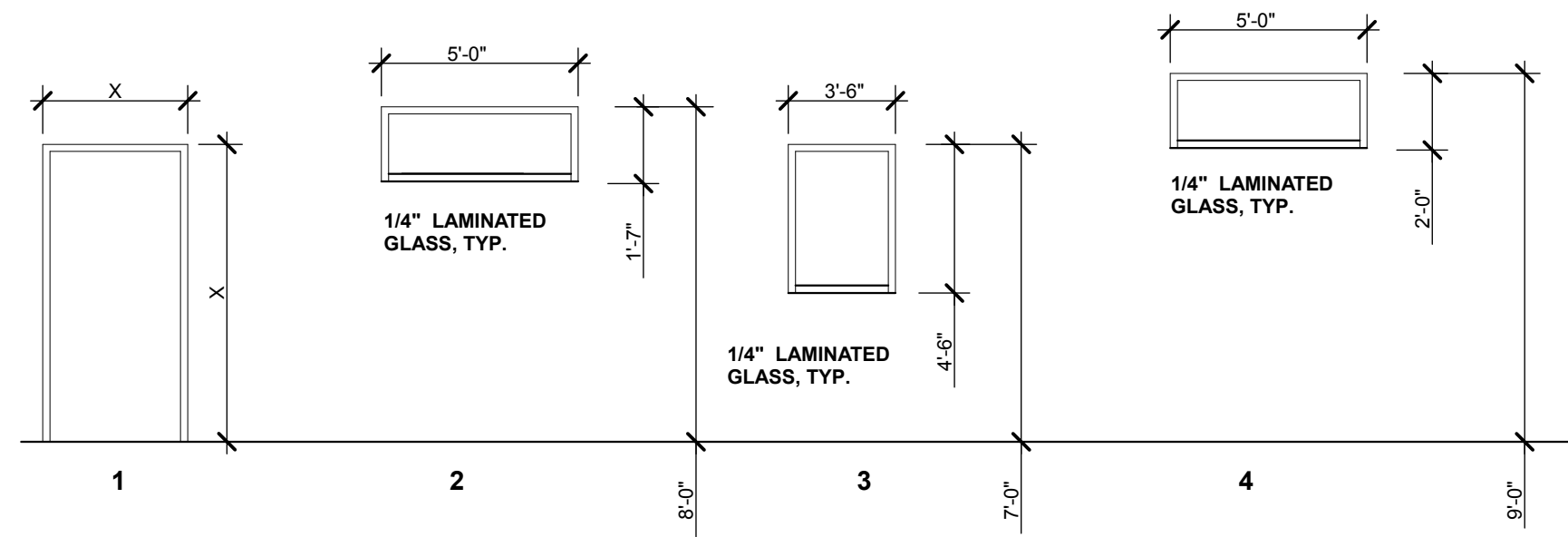
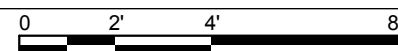
SCHEDULE LEGEND
WD WOOD
PREFIN PREFINISHED/FACTORY FINISHED
HM HOLLOW METAL
PNT PAINT (FINISH)
DR DOOR
FRM FRAME



SEE SCHEDULE FOR DOOR DIMENSIONS

4 DOOR PANEL TYPES

SCALE: 1/4" = 1'-0"

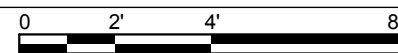


SEE SCHEDULE FOR DOOR DIMENSIONS

PROVIDE MANUAL ROLLER BLINDS AT EACH RELIGHT

5 OPENING FRAME TYPES

SCALE: 1/4" = 1'-0"



BID
DOCUMENTS

August 9, 2017

ADDENDUM NUMBER

ATTACHMENT NUMBER

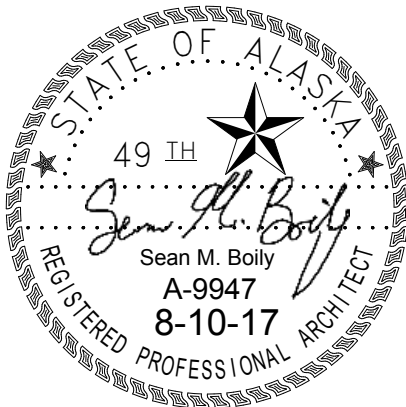
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No.	DATE	DESCRIPTION

STATE OF ALASKA
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Facilities Section
PO Box 11210
Juneau, AK 99811-0210

ALASKA STATE OFFICE BUILDING
7TH & 8TH FLOOR RENOVATIONS



NorthWind Architects, LLC
www.NorthWindArch.com
126 Seward Street
Juneau, AK, 99801

← 1" ACTUAL →

IF THE ABOVE DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING WILL HAVE BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES.

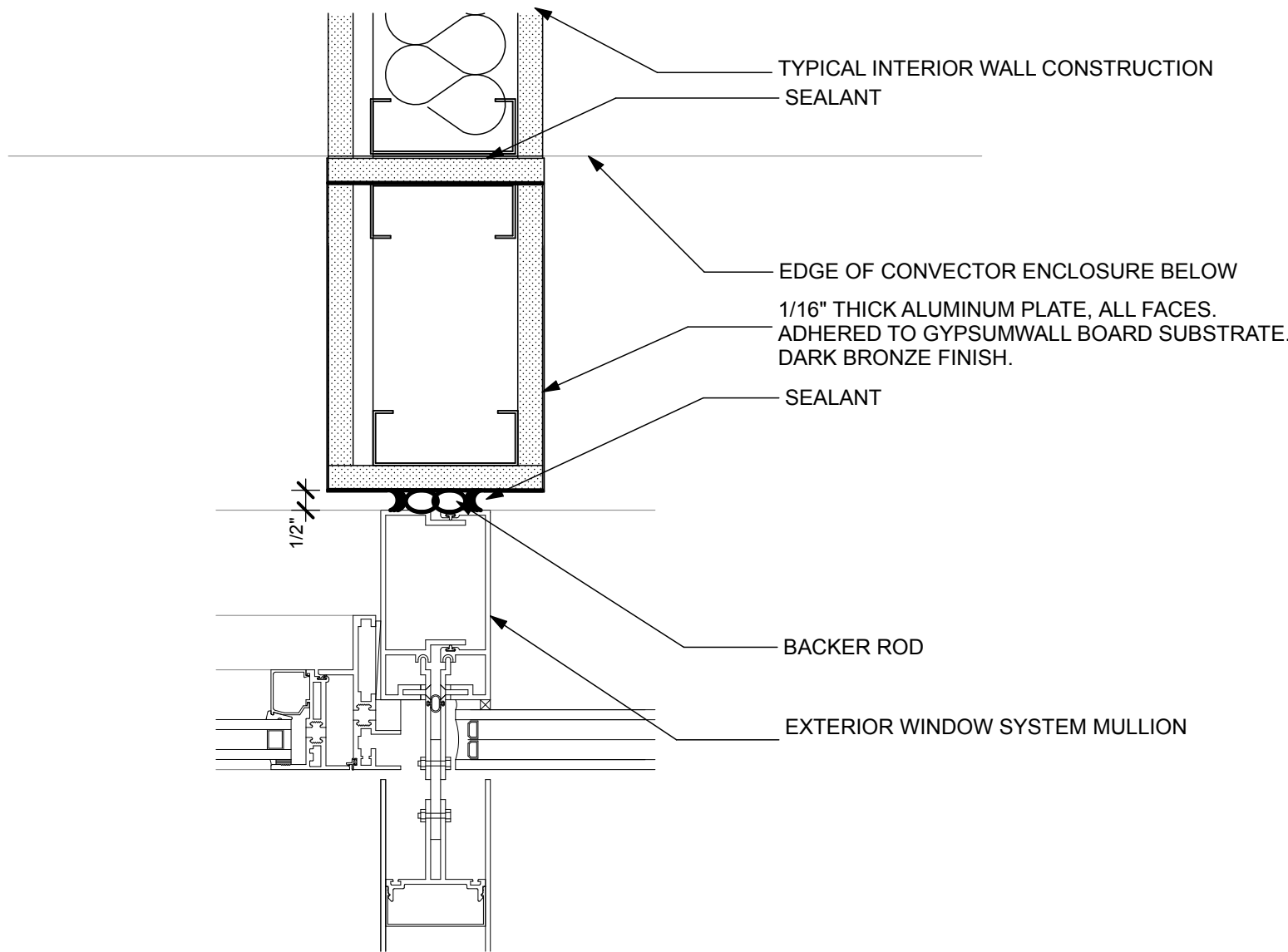
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A0.3
ARCHITECTURAL
DETAILS

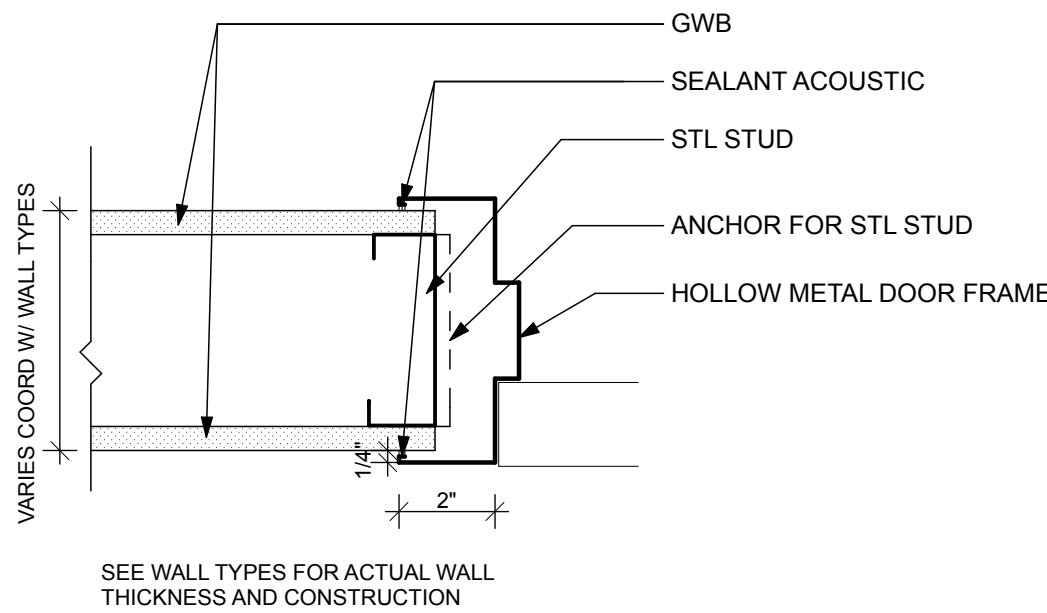
PROJECT DESIGNATION NUMBER

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STATE	YEAR
ALASKA	2017



2 TYPICAL MULLION TO INTERIOR PARTITION - PLAN
SCALE: 3" = 1'-0" 0 3" 6" 9"



1 TYPICAL DOOR JAMB/HEAD
SCALE: 3" = 1'-0" 0 3" 6" 9"

DEMOLITION PLAN KEY NOTES

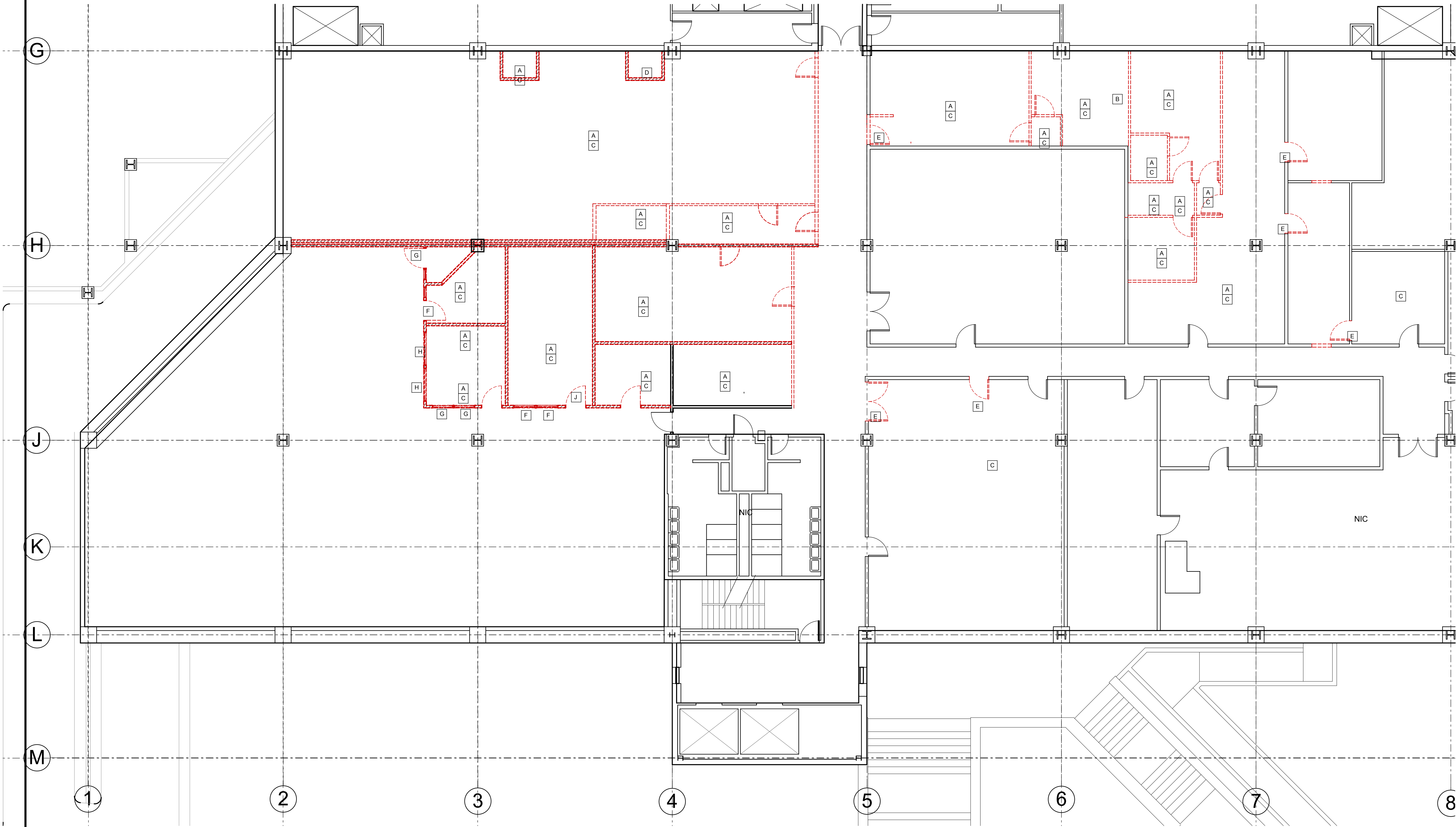
- [A] REMOVE ENTIRE WALL ASSEMBLY, INCLUDING FLOOR AND CEILING TRACK, DOORS AND WINDOWS. REMOVE ALL IN-WALL AND WALL MOUNTED PLUMBING AND ELECTRICAL. PRESERVE CEILING ASSEMBLY INTACT. AT WALLS TO REMIAN, REMOVE ALL UNUSED MISCELLANEOUS HARDWARE AND DEVICES.
- [B] REMOVE CASEWORK
- [C] REMOVE ALL FLOOR FINISHES AND ASSOCIATED GLUES
- [D] REMOVE DUMBWAITER ASSEMBLY, ASSOCIATED WALLS AND EQUIPMENT
- [E] REMOVE DOOR AND FRAME
- [F] SALVAGE DOOR & FRAME OR RELIGHT, INSTALL AT ROOM 708
- [G] SALVAGE DOOR & FRAME OR RELIGHT, INSTALL AT ROOM 707
- [H] SALVAGE HIGH TYPE 2 RELIGHT, INSTALL AT ROOM 704
- [J] SALVAGE DOOR AND FRAME, INSTALL AT ROOM 702

DEMOLITION PLAN GENERAL NOTES

- ALL EXISTING CONSTRUCTION TO BE FIELD VERIFIED PRIOR TO COMMENCEMENT OF THE WORK. VERIFY ALL EXISTING DIMENSIONS AND LAYOUT OF NEW WALLS. ADJUST NEW WALL LAYOUT SO AS TO MINIMALLY IMPACT CEILING GRID AND LIGHTING LAYOUT.
- SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR EXTENTS OF MECHANICAL AND ELECTRICAL DEMOLITION.
- COORDINATE ALL DEMOLITION AND REMOVAL WITH HAZARDOUS MATERIALS DOCUMENTATION.
- EXISTING WALLS TERMINATE AT UNDERSIDE OF CEILING GRID, TYPICAL. AN EXCEPTION IS AT THE DUMBWAITER PENETRATION THROUGH FLOOR 7 CEILING.

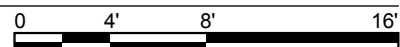
DEMOLITION PLAN LEGEND

- ===== WALL TO REMAIN
- ===== WALL TO BE REMOVED
- WALLS/ITEMS TO BE REMOVED



7TH FLOOR DEMOLITION PLAN

SCALE: 1/8" = 1'-0"



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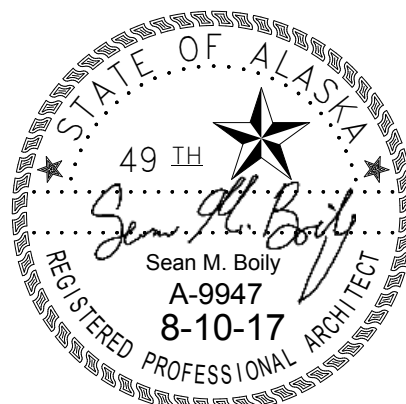
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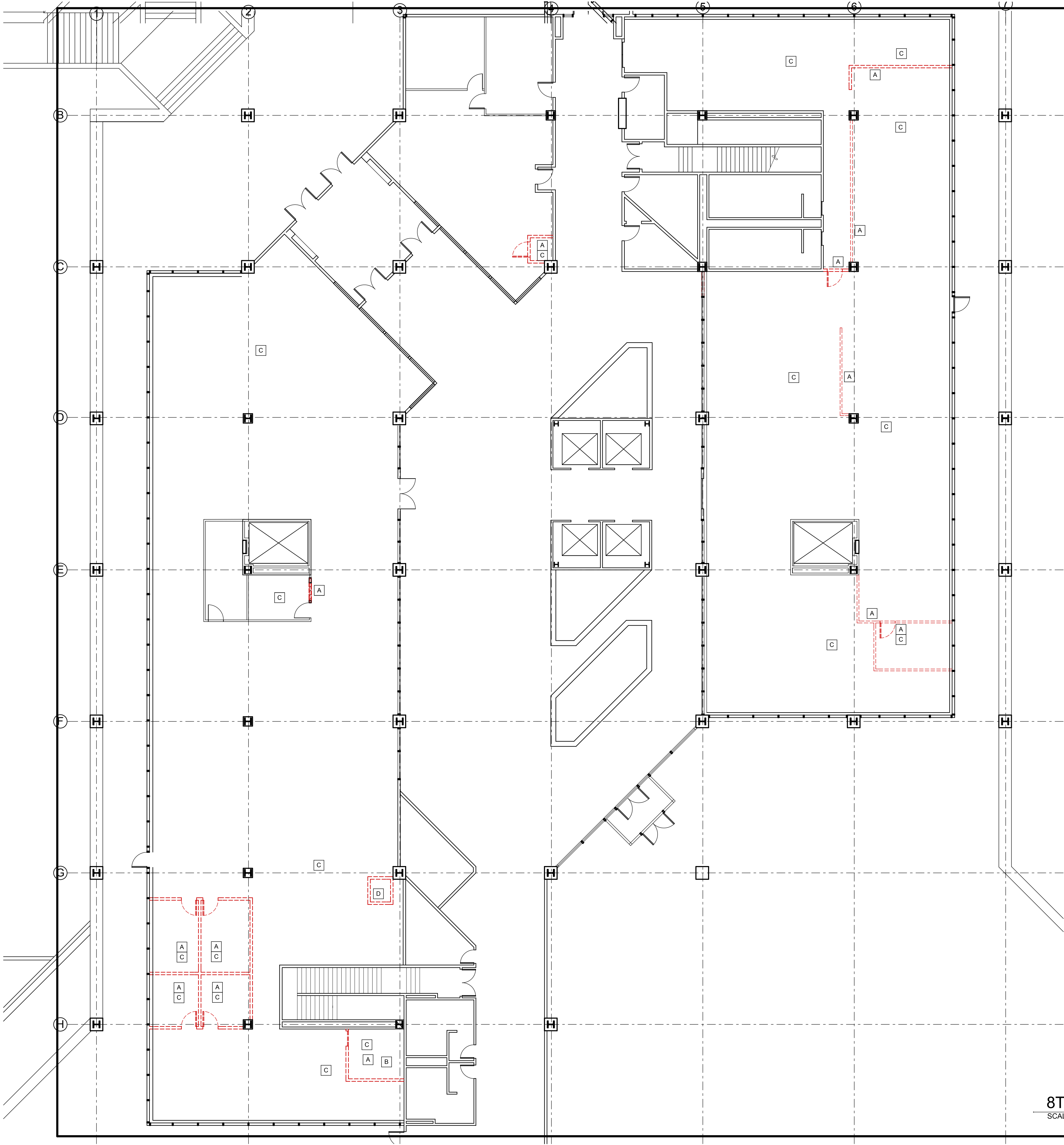
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A1.0-7
7TH FLOOR
DEMOLITION PLAN

PROJECT DESIGNATION NUMBER

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DEMOLITION PLAN GENERAL NOTES

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- SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR EXTENTS OF MECHANICAL AND ELECTRICAL DEMOLITION.
- COORDINATE ALL DEMOLITION AND REMOVAL WITH HAZARDOUS MATERIALS DOCUMENTATION.
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DEMOLITION PLAN LEGEND

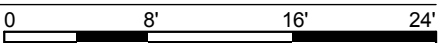
- WALL TO REMAIN
- WALL TO BE REMOVED
- WALLS/ITEMS TO BE REMOVED

DEMOLITION PLAN KEY NOTES

- REMOVE ENTIRE WALL ASSEMBLY TO UNDERSIDE OF CEILING GRID, INCLUDING FLOOR AND CEILING TRACK, DOORS AND WINDOWS. REMOVE ALL IN-WALL AND WALL MOUNTED PLUMBING AND ELECTRICAL. PRESERVE CEILING ASSEMBLY INTACT. AT WALLS TO REMAIN, REMOVE ALL UNUSED MISCELLANEOUS HARDWARE AND DEVICES.
- REMOVE CASEWORK
- REMOVE ALL FLOOR FINISHES AND ASSOCIATED GLUES
- REMOVE DUMBWAITER ASSEMBLY, ASSOCIATED WALLS AND EQUIPMENT
- REMOVE DOOR AND FRAME

8TH FLOOR DEMOLITION PLAN

SCALE: 3/32" = 1'-0"



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1" ACTUAL

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8TH FLOOR
DEMOLITION PLAN

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FLOOR PLAN KEY NOTES

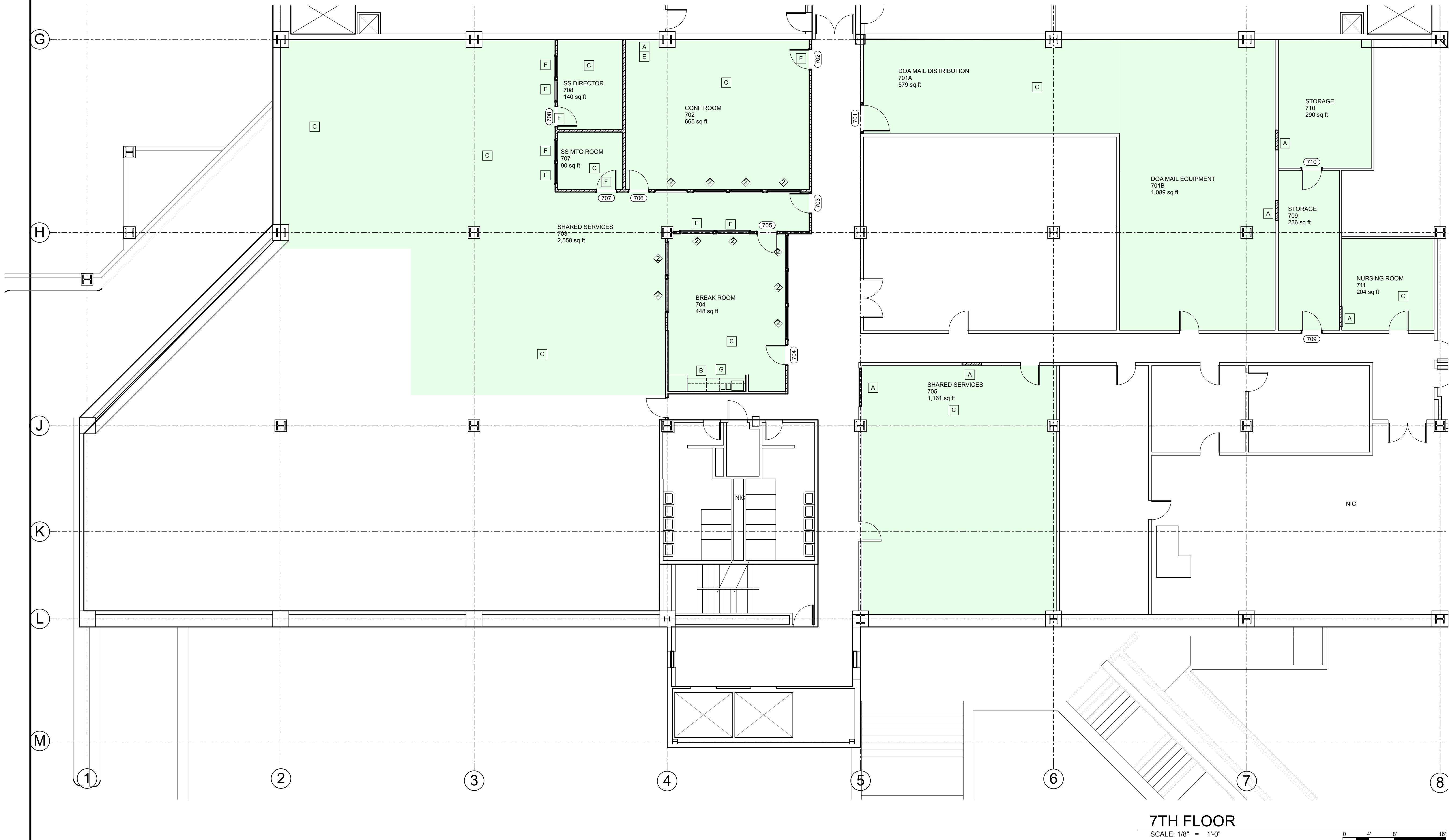
- [A] FRAME AND PATCH WALL TO MATCH SURROUNDING ASSEMBLIES
- [B] INSTALL NEW SINK, CASEWORK AND APPLIANCES; TYPICAL CAFE CONFIGURATION - COORDINATE WITH 1/A0.2.
- [C] PREPARE CONCRETE SLAB WITH CRACK-FILLING LEVELING COMPOUND COMPATIBLE WITH CARPET AND LINOLEUM FLOORING INSTALLATION UNDER SEPARATE CONTRACT.
- [D] INSTALL 1/4" THICK CONTINUOUS STEEL PLATE AT OPENING WHERE DUMBWAITER HAS BEEN REMOVED. FINISH WITH TOP 5/8" BELOW SURROUNDING CONCRETE. SUPPORT WITH 2X2 STEEL ANGLE PERIMETER, AND 2X2 STEEL ANGLE STIFFENERS AT NO MORE THAN 24" O.C. ALL WELDED CONSTRUCTION. LEVEL TO SURROUNDING FLOOR WITH CEMENTIOUS FLOOR LEVELING COMPOUND.
- [E] WHERE DUMBWAITER IS REMOVED, EXTEND EXISTING CEILING GRID AND ACOUSTIC CEILING TILE IN KIND TO FILL VOID IN CEILING SYSTEM LEFT BY REMOVAL.
- [F] INSTALL SLAVAGED RELIGHT OR DOOR - SEE DEMOLITION PLANS FOR SOURCE COORDINATION

FLOOR PLAN GENERAL NOTES

- ALL NEW WALLS TO BE FRAMED WITH 3-5/8" METAL STUDS, WITH 2" WIDE FACE FLANGES, MINERAL WOOL STUD CAVITY ACOUSTIC INSULATION FILL, RESILIENT CHANNEL ON ONE SIDE, AND 5/8" TYPE X GYPSUM WALLBOARD, BOTH SIDES, PAINTED. ACOUSTIC SEAL ALL PERIMETERS AND PENETRATIONS. COORDINATE WALL PLACEMENT TO AVOID LIGHT FIXTURES IN CEILING GRID.
- ALL EXISTING WALLS AND SOFFITS TO REMAIN TO BE PATCHED AND PAINTED AS A PART OF THE WORK.
- WHERE WALLS & DEVICES ARE REMOVED IN DEMO, EXTEND ADJACENT FINISHES ACROSS BREACH IN ASSEMBLY.
- CAREFULLY COORDINATE SCOPE OF FLOOR REPAIR AND PREPARATION WORK W/ FLOORING, BASE AND FINISHES IDENTIFIED IN THE SCOPE OF WORK PROVIDED BY OWNER UNDER SEPARATE CONTRACT. ANTICIPATE SLAB CLEANING AND APPLICATION OF FLOOR LEVELING AND REPAIR COMPOUND TO AN AVERAGE BUILD OF 1/8" IN ALL RENOVATION AREAS, FEATHERED OUT TO ADJACENT CONCRETE FINISHES.
- COORDINATE NEW CONSTRUCTION WITH ABATEMENT, MECHANICAL AND ELECTRICAL DOCUMENTS.
- ALL TAGGED DOORS ARE NEW DOORS: 3-0 X 7-0 SOLID CORE WOOD DOORS WITH DOUBLE RABBIT HOLLOW METAL FRAME, UNLESS OTHERWISE NOTED. BRUSHED NICKEL BUTTS, DOOR STOPS AND CYLINDRICAL LOCKSETS WITH ADA LEVERS, TYPICAL. COORDINATE WITH SCHEDULE ON A0.2, AND WITH SPECIFICATION NOTES.
- EXISTING WALLS TERMINATE AT UNDERSIDE OF CEILING GRID, TYPICAL. AN EXCEPTION IS AT THE DUMBWAITER PENETRATION THROUGH FLOOR 7 CEILING.

FLOOR PLAN LEGEND

- EXISTING WALL
- NEW WALL



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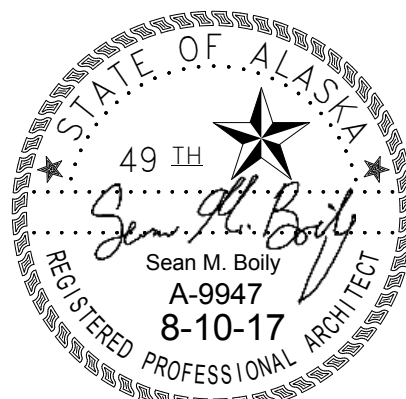
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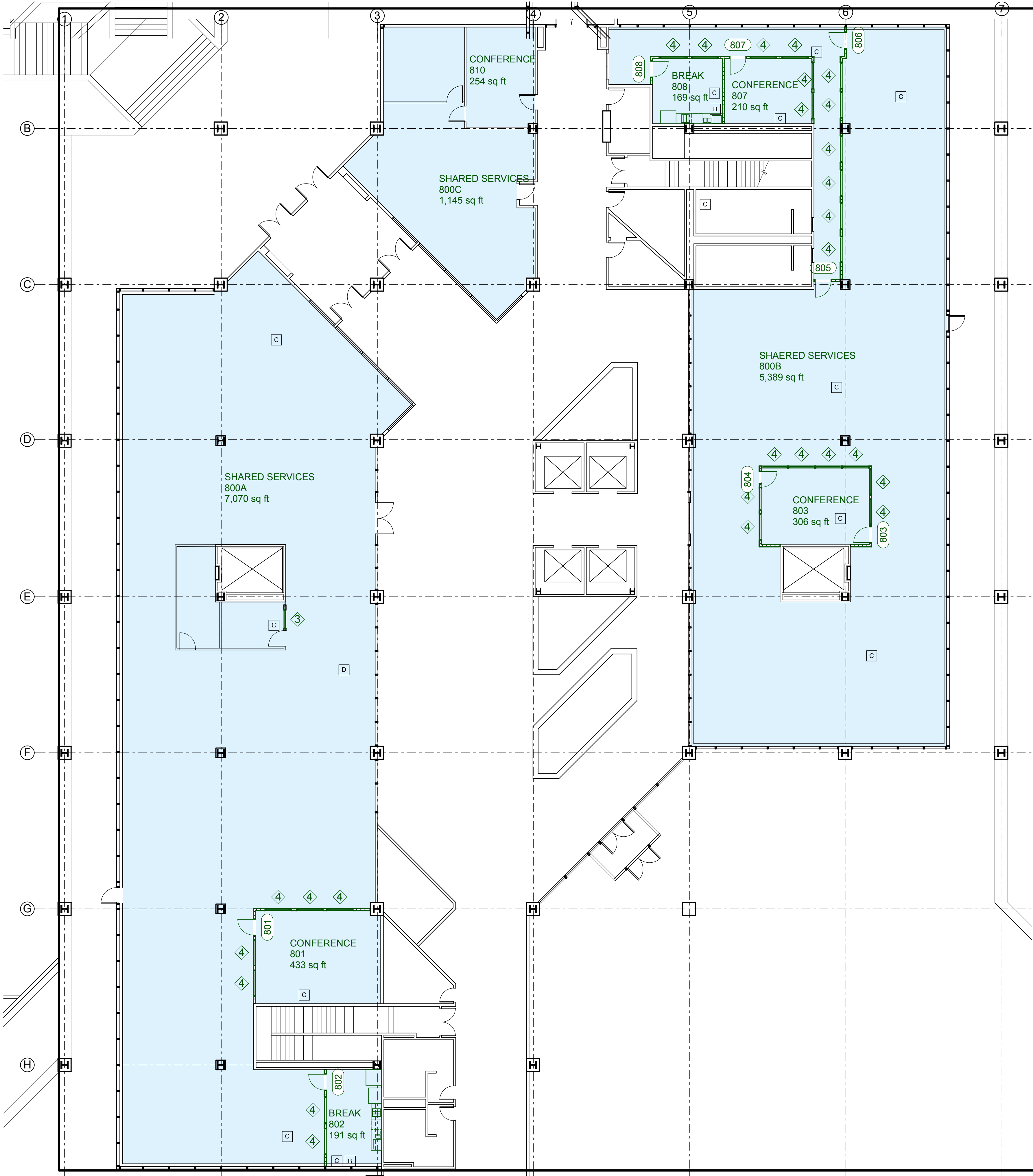
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A2.0-7
7TH FLOOR PLAN

PROJECT DESIGNATION NUMBER

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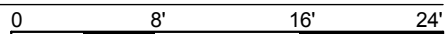
- FLOOR PLAN GENERAL NOTES**
- ALL NEW WALLS TO BE FRAMED WITH 3-5/8" METAL STUDS, WITH 2" WIDE FACE FLANGES, MINERAL WOOL STUD CAVITY ACOUSTIC INSULATION FILL, RESILIENT CHANNEL ON ONE SIDE, AND 5/8" TYPE X GYPSUM WALLBOARD, BOTH SIDES, PAINTED. ACOUSTIC SEAL ALL PERIMETERS AND PENETRATIONS. COORDINATE WALL PLACEMENT TO AVOID LIGHT FIXTURES IN CEILING GRID.
 - ALL EXISTING WALLS AND SOFFITS TO REMAIN TO BE PATCHED AND PAINTED AS A PART OF THE WORK.
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- FLOOR PLAN LEGEND**
- EXISTING WALL
 - NEW WALL

- FLOOR PLAN KEY NOTES**
- FRAME AND PATCH WALL TO MATCH SURROUNDING ASSEMBLIES
 - INSTALL NEW SINK, CASEWORK AND APPLIANCES; TYPICAL CAFE CONFIGURATION - COORDINATE WITH 1/A0.2.
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8TH FLOOR

SCALE: 3/32" = 1'-0"



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1" ACTUAL

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A2.1-8
8TH FLOOR PLAN

PROJECT DESIGNATION NUMBER

2018-0222- 3725

STATE
ALASKA

YEAR
2017



7TH FLOOR REFERENCE FURNATURE PLAN
SCALE: 1/8" = 1'-0"

FURNITURE PLAN NOTES

1. FURNITURE PLAN IS PROVIDED FOR REFERENCE AND COORDINATION OF ELECTRICAL AND DATA/COMMUNICATIONS CONNECTIONS WITH FURNISHINGS PROVIDED SEPARATELY BY OWNER AND OWNER'S FURNISHING CONTRACTOR.

BID DOCUMENTS		
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NorthWind Architects, LLC
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49 IH
Sean M. Bolly
A-9947
8-10-17
REGISTERED PROFESSIONAL ARCHITECT

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F1.0-7	
7TH FL FURNISHING PLAN	
PROJECT DESIGNATION NUMBER	
2018-0222-3725	
STATE	YEAR
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F1.1-8
8TH FLOOR

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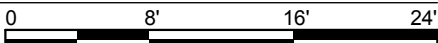
STATE	YEAR
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FURNATURE PLAN NOTES

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8TH FLOOR REFERENCE FURNATURE PLAN

SCALE: 3/32" = 1'-0"



CAUSERS\SIGR.D D:\ALBERG\DRIVE\NORTHWIND PROJECTS\7TH FLOOR REND 8/05/2017 4:02:08 PM AST
2017-08-05 17:00:00 7TH FLOOR REND 7-08-05

LEGEND

----- GWB WALL TO BE REMOVED

┌-----┐ 16x16" GWB PANEL TO BE CUT AROUND PIPE STUBS



DOOR FRAME TO BE REMOVED, GWB TO BE CUT BACK TO NEXT STUD

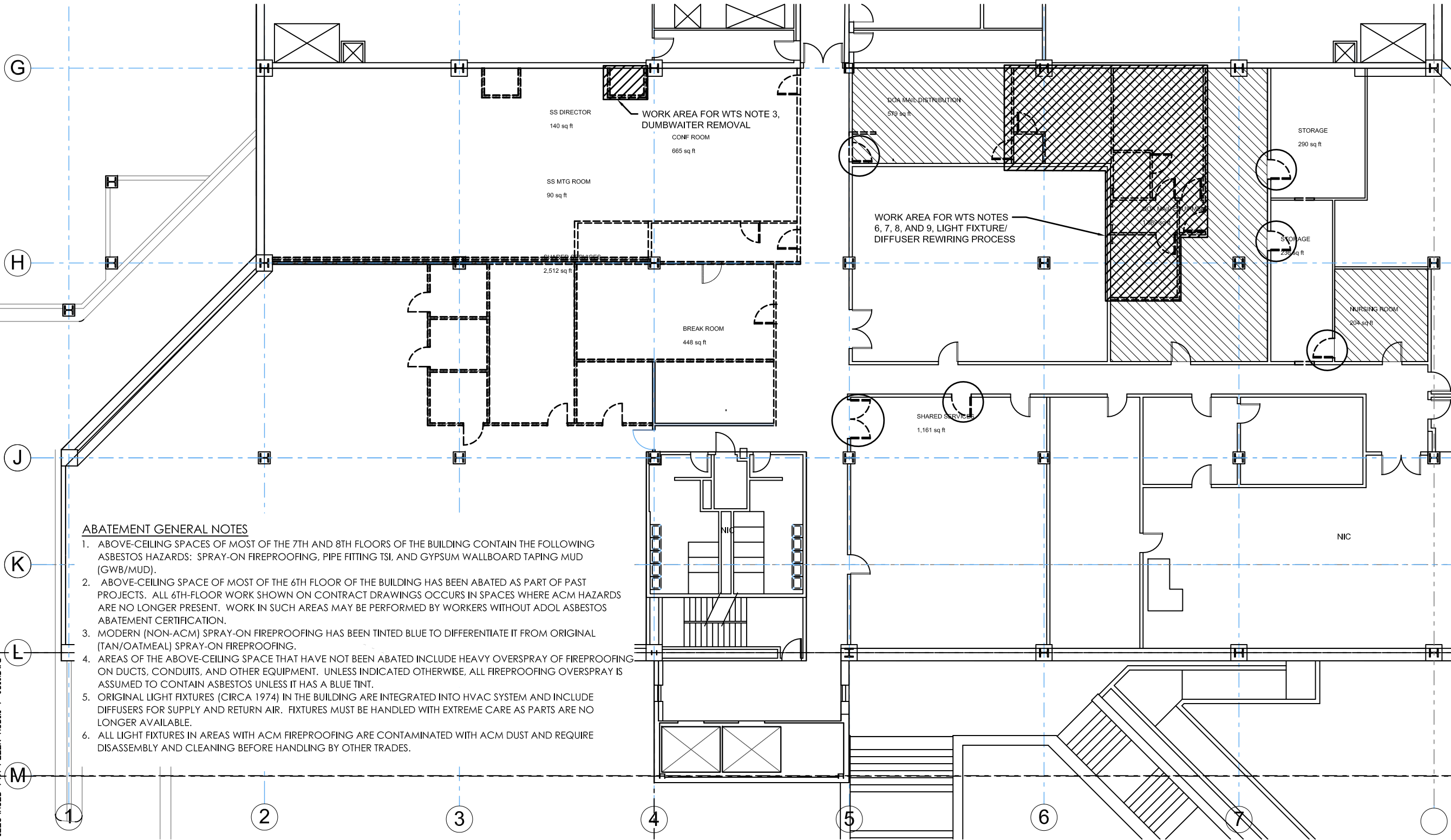


ACM VAT TO BE REMOVED

WORK THIS SHEET

1. REMOVE AND DISPOSE OF GYPSUM WALL BOARD WITH ACM TAPING MUD (GWB/MUD) AS SHOWN. WALLS SCHEDULED FOR DEMOLITION (WHERE GWB/MUD IS BEING REMOVED FROM BOTH SIDES) MAY BE HAVE FRAMING REMOVED AND DISPOSED OF ALONG WITH GWB/MUD (COORDINATE SUCH REMOVAL WITH GENERAL CONTRACTOR).
2. CREATE A 16"x16" OPENING IN GWB/MUD WALL FOR PLUMBING ACCESS AS SHOWN. COORDINATE EXACT LOCATION WITH MECHANICAL SUBCONTRACTOR. REMOVE AND DISPOSE OF GWB/MUD, LEAVING GWB FLUSH WITH FRAMING AT EDGE OF OPENING TO ALLOW ATTACHMENT OF A COVER PANEL WITHOUT FURTHER DISTURBANCE OF GWB/MUD.
3. REMOVE AND DISPOSE OF GWB/MUD AND DUMBWAITER EQUIPMENT AS SHOWN. CREATE A CLEAN SEMI-PERMANENT TENTED AREA FROM CEILING GRID TO FLOOR DECK TO ALLOW NON-CERTIFIED WORKERS TO RECONSTRUCT FLOOR IN THIS AREA.
4. REMOVE ORIGINAL PIPING WITH FIBERGLASS TSI AND FITTINGS WITH ACM TSI AS SHOWN. VERIFY THAT PIPING IS ABANDONED BEFORE CUTTING. COORDINATE WITH MECHANICAL SUBCONTRACTOR TO VERIFY STATUS OF PI PING.
5. REMOVE AND DISPOSE OF EXHAUST FAN, WALL-MOUNTED TIMER, AND DUCTWORK, LEAVING A CLEAN AREA AT THE FINAL DUCT JOINT TO ALLOW CAPPING BY MECHANICAL SUBCONTRACTOR. SEAL END OF REMAINING DUCT WORK WITH FIREPROOF POLY SHEETING

6. REMOVE AND DISPOSE OF ACM VAT/MASTIC IN AREA SHOWN, DOWN TO CLEAN CONCRETE. (only on 2nd version of 7th floor drawing)
7. REMOVE AND DISPOSE OF SURFACE-MOUNTED ELECTRICAL CONDUIT, SWITCHES, AND OUTLETS. COORDINATE WITH ELECTRICAL SUBCONTRACTOR TO VERIFY THAT CIRCUITS ARE DE-POWERED.
8. REMOVE AND VACUUM CEILING TILES IN AREA SHOWN. RESERVE FOR REINSTALLATION. CEILING GRID TO REMAIN IN PLACE. MARK ANY CUSTOM-SIZE CEILING TILES WITH ORIGINAL LOCATION TO FACILITATE FUTURE REPLACEMENT.
9. CREATE A SEMI-PERMANENT TENTED AREA ABOVE THE CEILING GRID IN AREA SHOWN. TENTED SPACE SHALL INCLUDE ACCESS TO ALL JUNCTION BOXES IN AREA SHOWN. ACCESS TO MECHANICAL EQUIPMENT OR CEILING PAN IS NOT NECESSARY.
10. CLEAN ALL REMAINING EQUIPMENT IN TENTED AREA TO ALLOW ACCESS BY ELECTRICIANS. COORDINATE WITH ELECTRICAL SUBCONTRACTOR TO REMOVE CONDUCTORS FROM LIGHT FIXTURE/DIFFUSER UNITS (PCM CLEARANCE REQUIRED FOR THIS ACTIVITY).
11. REMOVE, CLEAN, AND STOCKPILE LIGHT FIXTURE/DIFFUSER UNITS FOR REPLACEMENT AND REWIRING BY ELECTRICIANS. MARK EACH LIGHT FIXTURE/DIFFUSER UNIT WITH EXISTING LOCATION BEFORE REMOVAL.



ABATEMENT GENERAL NOTES

1. ABOVE-CEILING SPACES OF MOST OF THE 7TH AND 8TH FLOORS OF THE BUILDING CONTAIN THE FOLLOWING ASBESTOS HAZARDS: SPRAY-ON FIREPROOFING, PIPE FITTING TSI, AND GYPSUM WALLBOARD TAPING MUD (GWB/MUD).
2. ABOVE-CEILING SPACE OF MOST OF THE 6TH FLOOR OF THE BUILDING HAS BEEN ABATED AS PART OF PAST PROJECTS. ALL 6TH-FLOOR WORK SHOWN ON CONTRACT DRAWINGS OCCURS IN SPACES WHERE ACM HAZARDS ARE NO LONGER PRESENT. WORK IN SUCH AREAS MAY BE PERFORMED BY WORKERS WITHOUT ADOL ASBESTOS ABATEMENT CERTIFICATION.
3. MODERN (NON-ACM) SPRAY-ON FIREPROOFING HAS BEEN TINTED BLUE TO DIFFERENTIATE IT FROM ORIGINAL (TAN/OATMEAL) SPRAY-ON FIREPROOFING.
4. AREAS OF THE ABOVE-CEILING SPACE THAT HAVE NOT BEEN ABATED INCLUDE HEAVY OVERSPRAY OF FIREPROOFING ON DUCTS, CONDUITS, AND OTHER EQUIPMENT. UNLESS INDICATED OTHERWISE, ALL FIREPROOFING OVERSPRAY IS ASSUMED TO CONTAIN ASBESTOS UNLESS IT HAS A BLUE TINT.
5. ORIGINAL LIGHT FIXTURES (CIRCA 1974) IN THE BUILDING ARE INTEGRATED INTO HVAC SYSTEM AND INCLUDE DIFFUSERS FOR SUPPLY AND RETURN AIR. FIXTURES MUST BE HANDLED WITH EXTREME CARE AS PARTS ARE NO LONGER AVAILABLE.
6. ALL LIGHT FIXTURES IN AREAS WITH ACM FIREPROOFING ARE CONTAMINATED WITH ACM DUST AND REQUIRE DISASSEMBLY AND CLEANING BEFORE HANDLING BY OTHER TRADES.

7TH FLOOR ABATEMENT PLAN

SCALE: 1/8" = 1'-0"



BID DOCUMENTS

August 9, 2017

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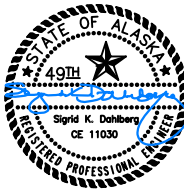
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Dahlberg Design, LLC.
www.dahlberg.design
222 Seward Street
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DRAWN BY: GDM [08-08-2017]

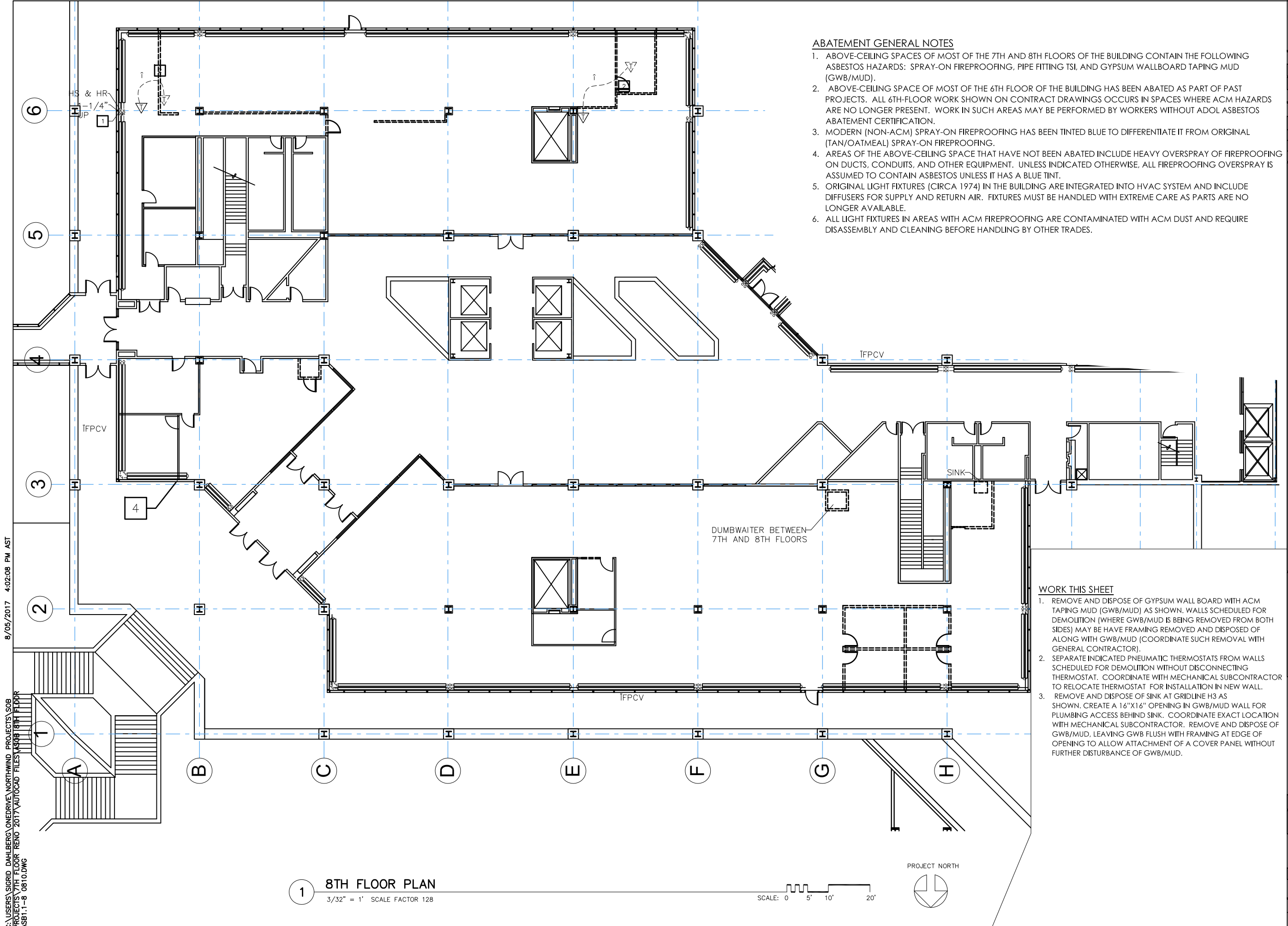
ASB2.1-7

7TH FLOOR
DEMOLITION PLAN

PROJECT DESIGNATION NUMBER

2018-0222-3725

STATE	YEAR
ALASKA	2017



ABATEMENT GENERAL NOTES

1. ABOVE-CEILING SPACES OF MOST OF THE 7TH AND 8TH FLOORS OF THE BUILDING CONTAIN THE FOLLOWING ASBESTOS HAZARDS: SPRAY-ON FIREPROOFING, PIPE FITTING TSI, AND GYPSUM WALLBOARD TAPING MUD (GWB/MUD).
2. ABOVE-CEILING SPACE OF MOST OF THE 6TH FLOOR OF THE BUILDING HAS BEEN ABATED AS PART OF PAST PROJECTS. ALL 6TH-FLOOR WORK SHOWN ON CONTRACT DRAWINGS OCCURS IN SPACES WHERE ACM HAZARDS ARE NO LONGER PRESENT. WORK IN SUCH AREAS MAY BE PERFORMED BY WORKERS WITHOUT ADOL ASBESTOS ABATEMENT CERTIFICATION.
3. MODERN (NON-ACM) SPRAY-ON FIREPROOFING HAS BEEN TINTED BLUE TO DIFFERENTIATE IT FROM ORIGINAL (TAN/OATMEAL) SPRAY-ON FIREPROOFING.
4. AREAS OF THE ABOVE-CEILING SPACE THAT HAVE NOT BEEN ABATED INCLUDE HEAVY OVERSPRAY OF FIREPROOFING ON DUCTS, CONDUITS, AND OTHER EQUIPMENT. UNLESS INDICATED OTHERWISE, ALL FIREPROOFING OVERSPRAY IS ASSUMED TO CONTAIN ASBESTOS UNLESS IT HAS A BLUE TINT.
5. ORIGINAL LIGHT FIXTURES (CIRCA 1974) IN THE BUILDING ARE INTEGRATED INTO HVAC SYSTEM AND INCLUDE DIFFUSERS FOR SUPPLY AND RETURN AIR. FIXTURES MUST BE HANDLED WITH EXTREME CARE AS PARTS ARE NO LONGER AVAILABLE.
6. ALL LIGHT FIXTURES IN AREAS WITH ACM FIREPROOFING ARE CONTAMINATED WITH ACM DUST AND REQUIRE DISASSEMBLY AND CLEANING BEFORE HANDLING BY OTHER TRADES.

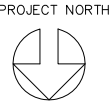
WORK THIS SHEET

1. REMOVE AND DISPOSE OF GYPSUM WALL BOARD WITH ACM TAPING MUD (GWB/MUD) AS SHOWN. WALLS SCHEDULED FOR DEMOLITION (WHERE GWB/MUD IS BEING REMOVED FROM BOTH SIDES) MAY BE HAVE FRAMING REMOVED AND DISPOSED OF ALONG WITH GWB/MUD (COORDINATE SUCH REMOVAL WITH GENERAL CONTRACTOR).
2. SEPARATE INDICATED PNEUMATIC THERMOSTATS FROM WALLS SCHEDULED FOR DEMOLITION WITHOUT DISCONNECTING THERMOSTAT. COORDINATE WITH MECHANICAL SUBCONTRACTOR TO RELOCATE THERMOSTAT FOR INSTALLATION IN NEW WALL.
3. REMOVE AND DISPOSE OF SINK AT GRIDLINE H3 AS SHOWN. CREATE A 16"X16" OPENING IN GWB/MUD WALL FOR PLUMBING ACCESS BEHIND SINK. COORDINATE EXACT LOCATION WITH MECHANICAL SUBCONTRACTOR. REMOVE AND DISPOSE OF GWB/MUD, LEAVING GWB FLUSH WITH FRAMING AT EDGE OF OPENING TO ALLOW ATTACHMENT OF A COVER PANEL WITHOUT FURTHER DISTURBANCE OF GWB/MUD.

C:\USERS\SGRID DAHLBERG\ONEDRIVE\NORTHWIND PROJECTS\SOB PROJECTS\7TH FLOOR RENO 2017\AUTOCAD FILES\ASB1.1-8 0810.DWG
8/05/2017 4:02:08 PM AST

1 8TH FLOOR PLAN
3/32" = 1' SCALE FACTOR 128

SCALE: 0 5' 10' 20'



BID
DOCUMENTS

August 9, 2017

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

STATE OF ALASKA
SHARED SERVICES OF ALASKA

Facilities Section
PO Box 11210
Juneau, AK 99811-0210

ALASKA STATE OFFICE BUILDING
7TH AND 8TH FLOOR RENOVATIONS



NorthWind Architects, LLC
www.NorthWindArch.com
126 Seward Street
Juneau, AK, 99801

Dahlberg Design, LLC
www.dahlber.design
222 Seward Street
Juneau, AK, 99801

DRAWN BY: GDM [08-08-2017]

ASB1.1-8
8TH FLOOR
DEMOLITION PLAN

PROJECT DESIGNATION NUMBER

STATE	YEAR
ALASKA	2017

.....ASBESTOS ABATEMENT SPECIFICATIONS – SECTION 028213

PART 1. GENERAL

1.1 SUMMARY

- A.

The asbestos abatement work is in support of the renovation of portions of the interior spaces on the 7th and 8th floors of the Alaska State Office Building (ASOB) in Juneau, Alaska. Base Bid includes work on the 8th floor, Alternate includes work on the 7th floor.
- B.

Bulk sampling has identified the following asbestos containing materials (ACM) in the ASOB that will impact this project:

1.

Spray-on fireproofing above the suspended ceiling of the 7th and 8th floors, including overspray on surrounding equipment and walls;

2.

Gypsum wall board and associated taping mud (GWB/mud) on all original partition walls and hard ceilings;

3.

Vinyl asbestos tile (VAT) and associated mastics on the 7th floor; and

4.

Original hard fitting thermal system insulation (TSI) on piping joints throughout the building.
- C.

The intent of the abatement portion of the Base Bid portion of the project is to support all renovation Work in the 8th floor including removal of walls and framing, modification of mechanical and electrical systems, and any other Work required to fulfill Contract obligations. At the finish of the Base Bid abatement project, all areas should be clean and ready for work by other trades.
- D.

The intent of the abatement portion of the Alternate portion of the project is support all renovation Work in the 7th floor areas, including removal of walls and framing, modification of mechanical and electrical systems, and any other Work required to fulfill Contract obligations. Some areas require erection of semi-permanent barriers to allow other trades access to the above-ceiling space. At the finish of the Alternate abatement project, all areas should be clean and ready for work by other trades.
- E.

The abatement project includes all material, labor, equipment and other related costs for:

1.

coordinating with prime contractor to determine the timing for abatement.

2.

mobilizing (including moving all plant and equipment onto the site; providing necessary project utilities or improving existing utilities as necessary, arranging for approved storage areas, issuing and posting all notices, and submitting all submittals),

3.

installing all necessary critical barriers to establish non-permanent and semi-permanent asbestos control areas to isolate the various abatement areas,

4.

completing all abatement elements as described in Paragraph C. above,

5.

cleaning all surfaces and spaces within the confines of the asbestos control areas,

6.

providing air monitoring, including appropriate elements summarized in Asbestos Air Monitoring in DEFINITIONS below, and in accordance with PART 3 EXECUTION of this section,

7.

providing on-site lab analysis for required air monitoring.

8.

disposing of ACM and related demolition debris in accordance with these contract documents,

9.

removing the non-permanent asbestos control areas,

10.

general cleanup and demobilization.
- F.

Hazardous Materials drawings, along with Architectural, Mechanical, and Electrical drawings, illustrate the locations where the above-described work is necessary and allow quantification for the bidding purposes. A site visit is strongly recommended.

1.2 COORDINATION AND TIMING OF ABATEMENT ACTIVITIES

- A.

The building will be occupied during the project and surrounding spaces will be in active use.
- B.

Abatement work shall take place between 6pm and 6am on Mondays through Thursdays, and between 6pm Friday and 6am on the following Monday. Daytime work may occur on State holidays with Engineer's permission.
- C.

The Owner will provide access to temporary power and to cold water for direct project use. Abatement Subcontractor will need to supply provisions for hot water on the site. The Abatement Subcontractor is responsible for all costs and effort required to develop those utilities for his use.
- D.

Security to the site shall be maintained for the duration of the abatement project. It will be the responsibility of the Abatement Subcontractor to coordinate with the Contractor and other trades to sequence the work.

1.3 REFERENCE SPECIFICATIONS, CODES, AND STANDARDS

- A.

The publications listed below form a part of the specification to the extent referenced. The publications are referred to in the text by the basic designation only.

1.

Code of Federal Regulations (CFR) Publications:

29 CFR 1910.1001

Asbestos (for general industry standards)

29 CFR 1910.134

Respiratory Protection

29 CFR 1910.145

Specifications for Accident Prevention Signs and Tags

29 CFR 1910.1200

Hazard Communications

29 CFR 1926.1101

Asbestos (for construction and demolition standards)

40 CFR 61 Sub-pt A

General Provisions

40 CFR 61 Sub-pt M

National Emission Standard for Asbestos

40 CFR 241

Guidelines for Land Disposal of Solid Wastes

2.

Alaska Statutes Title 23, Labor and Workers Compensation

8AAC 61.600-790

Asbestos Abatement Statues & Regulations

3.

Additional References:

US EPA Publication 560/5-85-024: A Revision to the US EPA's 1985 Guidance for Controlling Asbestos Containing Materials in Buildings, March 2015

ASTM1368-14 Standard Practice for Visual Inspection of Asbestos Abatement Projects

1.4 DEFINITIONS

- A.

ACM: See Asbestos Containing Material (ACM).
- B.

Abandonment: Leaving in place existing asbestos materials. An example is leaving pipes inside walls when new piping is to be routed differently. Complete documentation must be made of the exact location and condition of the asbestos before abandonment, including the type and method of use of any encapsulant.
- C.

Action Level: See Exposure Standards.
- D.

Aggressive Conditions: Required technique to prepare an area that has passed visual inspection for clearance sampling. Before starting the sampling pumps, the exhaust from forced air equipment (such as a 1 horsepower leaf blower) shall be directed against all walls, ceilings, floors, ledges and other surfaces in the room. This effort shall take at least 5 minutes per 1,000 square feet of floor. Next, a 20-inch fan shall be placed in the center of the space (one such fan shall be employed for every 10,000 cubic feet of room volume), directed towards the ceiling, and set to run on slow speed. Once the fans are set up and operational, the sampling pumps shall be started and run for the required time. Once sampling is complete all 20-inch fans shall be secured.
- E.

Amended Water: Water containing a wetting agent specifically designated by the manufacturer for the wetting of asbestos.
- F.

Approved Laboratory: An independent laboratory properly staffed and equipped for the collection and analysis of asbestos bulk and/or air samples, and who maintains demonstrable satisfactory performance from all technicians involved in the performance of these analyses. For air samples, participation and a documented record of satisfactory performance in either the NIOSH Proficiency Analytical Testing (PAT) program, equivalent American Industrial Hygiene Association (AIHA) program, or an equivalent inter-laboratory testing protocol in accordance with 29 CFR 1926.1101, Appendix A is required. The lab must be capable of performing both phase contract illumination microscopy, and transmission electron microscopy, and be capable of the required short turn-around times. For bulk analysis, participation in and maintenance of a satisfactory record with the bulk asbestos analysis program with the Research Triangle Park, NC 27709-2194, (919) 541- 6000, is required. If any participation in any equivalent program is proposed to meet this requirement, the details of the program, documentation of satisfactory performance, and name, address and telephone number of the operator of the program must be submitted as part of the asbestos work plan for approval.
- G.

Area Monitoring: See Asbestos Air Monitoring.
- H.

Asbestos: A class of six naturally occurring fibrous hydrous mineral silicates. Minerals included in this group are chrysotile, crocidolite, amosite and the fibrous forms of anthophyllite, tremolite and actinolite.
- I.

Asbestos Air Monitoring: An approved air monitoring plan is required if air monitoring is part of the abatement work. To be approved such a plan must include the following elements:

1.

Area Monitoring: Sampling for airborne concentrations of asbestos fibers within the existing or planned asbestos control area that is representative of the fiber levels that may reach the worker's breathing zone. Area pumps drawing 10 liters per minute through the filter cassette are used for area monitoring and should pull at least 1,200 liters of air for each sample.

2.

Environmental Monitoring: Sampling for airborne concentrations of asbestos fibers outside the asbestos control area to assure that no asbestos fibers are escaping the enclosure, and that personnel outside the control area are not being exposed. Where a sealed area is not used, such as during exterior siding removal, this will refer to sampling conducted at the perimeter of the control area to assure that a sufficient buffer zone around the work in progress has been established, and that personnel outside this zone are not being exposed. Area pumps drawing 10 liters per minute through the filter cassette are used for environmental monitoring and should pull at least 1,200 liters of air for each sample.
3.

Baseline (Background) Monitoring: Sampling conducted to determine the initial level of airborne asbestos fibers present prior to the start of asbestos work. Area pumps drawing ≥ 1 but < 10 liters per minute through the filter cassette are used for this monitoring and should pull at least 1,200 liters of air for each sample. This sampling can be subdivided into three parts:

a.

Natural Background Sampling: Sampling conducted outside the structure where the work will be accomplished to determine the naturally occurring fiber levels present in that locale. When results indicate that this level may reach or exceed 0.01 f/cc, a minimum of 5 consecutive days of sampling will be used to establish an arithmetic average. This average will be used as the background level.

b.

Environmental Background Sampling: Sampling conducted to determine the background fiber levels within a structure, but outside the planned asbestos work area. This sampling is accomplished to ascertain the normal background fiber level within these areas of the structure. Special care must be taken during this sampling to minimize sample contamination by non-asbestos fibers, such as from cloth, paper and carpet.

c.

Work Area Background Sampling: Sampling conducted in the area where asbestos work is planned, normally used to determine the level of personal and other protective measures required by personnel preparing the area for asbestos work and to establish the level of contamination present prior to the beginning of asbestos operations.
4.

Initial Exposure Assessment Monitoring: Sampling conducted by a "competent person" immediately before or at the initiation of the operation to ascertain the expected exposures during that operation. Initial Exposure Assessment Monitoring must be completed in time to allow compliance with requirements which are triggered by exposure data or the lack of a "negative exposure assessment", and to provide information necessary to assure that all control systems planned are appropriate for the operation and will work properly. Until Initial Exposure Assessment Monitoring confirms that employees on the job will not be exposed in excess of the PEL, or a "negative exposure assessment" for non-friable asbestos has been accepted, it shall be assumed that employees are exposed in excess of the TWA and excursion limit.
5.

Negative Exposure Assessment: For any one specific asbestos job involving non-friable material which will be performed by trained employees, it may be demonstrated that employee exposures will be below the PEL by data which conform to the following criteria:

a.

Objective data demonstrating that the product or material containing asbestos minerals or the activity involving such product or material cannot release airborne fibers in concentrations exceeding the TWA and excursion limit under those work conditions having the greatest potential for releasing asbestos.

b.

Where the employer has monitored prior asbestos jobs for the PEL and the excursion limit within 12 months of the current or projected job, the monitoring and analyses were performed in compliance with the asbestos standard in effect; and the data were obtained during work operations conducted workplace conditions "closely resembling" the processes, type of material, control methods, work practices, and environmental conditions in the current operations, the operations were conducted by employees whose training and experience are no more extensive than that of employees performing the current job, and these data show that under the conditions prevailing and which will prevail in the current workplace there is a high degree of certainty that employee exposures will not exceed the TWA and excursion limit.

c.

The results of initial exposure monitoring of the current job made from breathing zone air samples that are representative of the 8-hour TWA and 30-minute short-term exposures of each employee covering operations that are most likely during the performance of the entire asbestos job to result in exposures over the PEL.
6.

Clearance Monitoring: Sampling occurring at the completion of the asbestos work or at the completion of a specific phase of asbestos work, prior to removing the enclosure. It is accomplished to prove that the clean-up activities have been effective, and that remaining fiber levels both inside and outside the enclosure comply with airborne fiber concentrations defined in "Clearance Levels" below. Clearance sampling is normally accomplished in the same locations and by the

BID DOCUMENTS August 9, 2017		
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No.	DATE	DESCRIPTION
STATE OF ALASKA SHARED SERVICES OF ALASKA		Facilities Section PO Box 11210 Juneau, AK 99811-0210
ALASKA STATE OFFICE BUILDING 7TH & 8TH FLOOR RENOVATIONS		
		
NorthWind Architects, LLC www.NorthWindArch.com 126 Seward Street Juneau, AK, 99801		
Dahlberg Design, LLC. www.dahlberg.design 222 Seward Street Juneau, AK, 99801		
← ACTUAL → IF THE ABOVE DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING WILL HAVE BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES.		
DRAWN BY: GDM [08-08-2017]		
ASB5.0		
ABATEMENT SPECIFICATIONS		
PROJECT DESIGNATION NUMBER		
2018-0222-3725		
STATE	YEAR	
ALASKA	2017	

- same methods as the baseline monitoring, and is done in an aggressive manner (see EPA 560/5-85-024 for description of methods). For public buildings, clearance may be achieved using Phase Contrast Illumination Microscopy (PCM) at the Owner's option. See PART 3-EXECUTION, MONITORING for additional information.
7. Personal Monitoring: Sampling for asbestos fiber concentrations at the breathing zone of a worker, used to document individual exposures, and, in conjunction with the work area sampling, to determine the required degree of personal and respiratory protection. A minimum of two samples shall be collected per eight-hour shift at a flow rate of 0.5 to 2.5 liters per minute. At least 25% of the workers doing a particular job shall be sampled each eight-hour shift. See Exposure Standards for more information.
- J. Asbestos Containing Material (ACM): Material composed of asbestos of any type, and in any amount equal to or greater than 1 percent by weight, either alone or mixed with other fibrous or non-fibrous materials.
- K. Asbestos Control Area: An area where operations involving asbestos are performed which is isolated by physical barriers designed to prevent the spread of asbestos dust, fibers, and debris, and to prevent or deter the entry or unauthorized and unprotected personnel. For areas where isolation is not feasible, it will be an area that is physically demarcated, e.g., bounded by a physical barrier such as a rope, barricade, etc., separating the known "clean" zone from the asbestos work area and buffer zone.
- L. Asbestos Fibers: This expression refers to a particular form of asbestos, fibrous tremolite, anthophyllite, or actinolite having a length to diameter aspect ratio of 3:1 or greater, and an overall length of 5.0 micrometers or longer. Where specialized analytical techniques, such as electron microscopy, are utilized for analysis, this shall refer to the number of fibers considered to equate to a specific weight of asbestos.
- M. Asbestos Survey: A detailed survey accomplished by specially trained, experienced technicians of a specific area to determine the presence, absence, condition, and amount of asbestos and asbestos contamination present in that area.
- N. Asbestos Workers' Personal Hygiene Area: A dedicated area containing shower(s), change room and, if required, toilet facilities where personnel working with asbestos (where a control area is not established) can change into protective clothing, and can disrobe, shower, and change into clean clothing without danger of transferring contamination to themselves or others.
- O. Baseline Monitoring: See Asbestos Air Monitoring.
- P. Bulk Sampling and Analysis: Representative samples taken from materials suspected to contain asbestos, analyzed by an approved laboratory using polarized light microscopy (PLM). When specialized methodology, such as electron microscopy is required, collection and analysis shall be in accordance with the recommendations of the laboratory providing the analysis, and the result expressed as both mass per unit volume and percent by weight shall be given.
- Q. Clean: As used in these documents, "clean" means that the surface in question is free of visible asbestos, to the point where no physical sample can be collected for analysis.
- R. Clean Room: An uncontaminated room having facilities for storage of employees' street clothing, uncontaminated materials and equipment.
- S. Clearance Levels: The maximum fiber levels present after completion of the asbestos work, or a given phase of work, sampled during initial or final clearance monitoring. This level shall be the lower of the baseline work area monitoring value for the location, or less than **0.01 fibers/cc**, whichever is lower. In the special case where the naturally occurring outdoor background levels outside the structure are greater than or equal to 0.01 f/cc, averaged arithmetically over a minimum 5-day period, the clearance level shall be the interior work area background level prior to the start of CONTRACTOR work, or less than or equal to the average natural background level, wherever is lower.
- T. Clearance Monitoring: See Asbestos Air Monitoring.
- U. Competent Person: An individual experienced in the abatement and control of asbestos who has received specialized additional training in the supervision and management of asbestos abatement projects. This individual is the full-time on-site manager responsible for ensuring that all safety, health and environmental protection requirements are met, that approved operational methods are followed, and that all personnel on the site comply with these requirements. Specialized training must include an EPA recognized course in the management of asbestos abatement projects. The Competent Person shall report to the Industrial Hygienist.
- V. Containment: See Enclosure.
- W. Decontamination Area: An enclosed area adjacent and connected to a sealed asbestos control area and consisting of an equipment room, shower area, and clean room used for the decontamination of workers, materials and equipment. This also forms the only authorized entry and exit for the control area, except as required in Equipment Decontamination Area below.

- X. Encapsulant: A liquid material which can be applied to ACM which reduces the potential for release of asbestos fibers from a material, either by creating a membrane over the surface (bridging encapsulant) or by penetrating into the material and binding its components together (penetrating encapsulant).
- Y. Encapsulate: The process whereby an encapsulant is applied to ACM to seal in or bind together the individual asbestos fibers, thereby reducing the potential for the release of these fibers.
- Z. Enclosure: Construction of a sealed, permanent structure around asbestos. Complete documentation must be made of the exact location and condition of the asbestos before the enclosure is finished, including the type and method of use of any encapsulant.
- AA. Equipment Decontamination Area: When used, a separate area designed similarly to the personnel decontamination area, but on a large scale. Used to decontaminate large items, or for the purpose of a separate exit for asbestos waste removal where the normal means of egress is not effective (such as the removal of long pieces of pipe from the basement of a structure).
- BB. Equipment Room (Change Room): A room located within the decontamination area that is supplied with impermeable bags or receptacles for the disposal or storage of contaminated protective clothing and equipment, and lockers for the storage and contaminated tools and work shoes.
- CC. Exposure Standards
1. Workers:
- a. Excursion Limit (EL): An airborne concentration of asbestos of **1.0 fiber per cubic centimeter** of air (1 f/cc) as averaged over a sampling period of 30 minutes.
- b. Permissible Exposure Level (PEL): The abatement Subcontractor shall ensure that no employee is exposed to an airborne concentration of asbestos, actinolite, anthophyllite, or tremolite fibers, or a combination of these mineral fibers, exceeding **0.1 fibers per cubic centimeter** (0.1 f/cc) expressed as an 8-hour time weighted average (TWA) as defined by the NIOSH sampling and analytical method 7400. (Reference 29 CFR 1926.1101, Appendix A.)
2. Non-Workers:
- a. Personnel who are not asbestos workers as defined by OSHA and this specification shall not be exposed to levels of asbestos fibers exceeding the EPA clearance level criteria of **0.01 f/cc**.
- DD. Fibers: All fibers, regardless of composition, as determined by analysis in accordance with the method described in 29 CFR 1926.1101, Appendix A. When specialized methodology, such as electron microscopy is required, collection and analysis shall be in accordance with the recommendations of the laboratory providing the analysis, and the equivalent fiber level, expressed in both mass per unit volume and fibers per cubic centimeter shall be given.
- EE. Glovebag Technique: A method with limited applications for removing small amounts of friable asbestos-containing material from HVAC ducts, short piping runs, valves, joints, elbows, and other non-planar surfaces not isolated inside an enclosure. The glovebag assembly is a manufactured or fabricated device consisting of a glovebag (typically constructed of 6-mil transparent polyethylene or polyvinyl chloride plastic), two inward projecting long sleeve gloves, an internal tool pouch, and an attached, labeled receptacle for asbestos waste. The glovebag is constructed and installed in such a manner that it surrounds the object or material to be removed and contains all asbestos fibers released during the process. All workers who are permitted to use the glovebag technique must be highly trained, experienced and skilled in this method.
- FF. HEPA Filter Equipment: High Efficiency Particulate Air (HEPA) filtered vacuuming, local exhaust, or respiratory protective equipment equipped with specialized filters capable of collecting and retaining asbestos fibers. Filters must be of 99.97 percent or greater efficiency at collection of 0.3-micron diameter particles. Filters must be factory tested and certified as meeting this filtration requirement.
- GG. Industrial Hygienist: An individual certified by the American Board of Industrial Hygiene, and having significant prior experience in managing and evaluating the health and safety aspects on asbestos projects of similar nature and scope to ensure capability of performing asbestos work in a satisfactory manner. Prior project similarities shall be in areas related to material composition, project size, number of employees, and in the engineering, work practice, environmental, and personal protection control required. An equivalent individual, such as a Licensed Professional Safety Engineer, Certified Safety Professional, and other qualified person with a minimum of 5 years of experience in industrial hygiene, including extensive experience in the management and evaluation of health and safety aspects of asbestos abatement, may substitute for the Certified Industrial Hygienist, subject to approval by the Engineer. The Industrial Hygienist shall be responsible for all monitoring, training and asbestos work, for ensuring that all safety and health requirements prescribed by State and Federal regulations, as well as these specifications, are compiled with, and for ensuring that the competent person performs all assigned duties in accordance with this specification and applicable Federal and State regulations.
- HH. Initial Exposure Assessment Monitoring: See Asbestos Air Monitoring.

- II. Lockdown Sealant: A spray-on liquid-type sealant applied to surfaces from which ACM has been removed. It is applied after final cleaning and visual inspection has occurred, but prior to initial clearance sampling. Its purpose is to control and minimize the amount of airborne asbestos fiber generation that might result from any residual ACM debris on the substrate. All lockdown sealant shall be acrylic copolymer blend that forms a durable non-combustible barrier that when cured becomes an excellent primer for spray back insulation and water based architectural coatings.
- JJ. Lower Limit of Detection (LLD): The smallest quantifiable amount of a substance, or number of fibers, present in a given sample that can be determined accurately by the sampling and analysis methods in use. A LLD is normally specified to represent a 95% confidence level. All samples taken for baseline, background, environmental or clearance sampling shall have an LLD of 0.01 f/cc or less. Samples taken for bulk analysis shall have an LLD of less than 0.1 percent by weight of the sample of homogeneous samples.
- KK. Negative Exposure Assessment: See Asbestos Air Monitoring.
- LL. Negative Pressure: A minimum of **minus 0.02 inches of water pressure** (negative pressure) differential between the asbestos control area and all adjacent areas, at a minimum flow rate of **four air changes per hour** at all points within the asbestos control area. See PART 3-EXECUTION; SAFETY AND HEALTH COMPLIANCE; Vacuums and local exhaust systems for additional information.
- MM. Permissible Exposure Level (PEL): See Exposure Standards.
- NN. Personal Monitoring: See Asbestos Air Monitoring.
- OO. Phase Contrast Illumination Microscopy (PCM): An analytical method for counting fibers in air sampling filters.
- PP. Polarized Light Microscopy (PLM): An analytical method for determining asbestos content in bulk samples.
- QQ. Time Weighted Average (TWA): The TWA is an average of the airborne concentration of asbestos fibers, expressed as the number of fibers per cubic centimeter (f/cc) of air, measured and calculated for a minimum of 8 hours, and taken into account the relative proportions of time exposed when averaging different exposure levels.
- 1.5 PRE-WORK SUBMITTALS
- A. The Pre-Work Submittal shall be submitted digitally as a complete package and modified as necessary to obtain approval by the Engineer five working days prior to any work on the project. The abatement Subcontractor shall perform his work in compliance with the approved Pre-Work Submittal which shall include:
1. Asbestos Work Plan: A plain-language plan describing work procedures to be used during each and all operations involving asbestos. Annotated building plans or site plans no larger than 11 inches by 17 inches shall be included to detail locations for asbestos control areas, monitoring locations, access and disposal routes, and other activities where needed. The plan shall include as a minimum the following elements:
- a. Location and construction of each asbestos control area.
- b. Sequencing of asbestos work, to include separate sequences if the work is to be accomplished in separate sections or phases, including detail regarding how the abatement work fits into the overall schedule for demolition.
- c. A detailed air monitoring plan that complies with 8 AAC 61.1145, 29 CFR 1926.1101, current US EPA guidance, and applicable requirements of "Asbestos Air Monitoring", "Exposure Standards", and "Personal Monitoring" in DEFINITIONS above.
- d. Transport and disposal plans.
- e. A contingency plan for potential emergencies, accidents, or incidents covering, but not limited to:
- Medical emergencies/accidents inside the control area.
 - Violation of the control area.
 - Spills inside the control area.
 - Spills outside the control area.
 - Fire inside and outside the control area.
 - Loss of power.
 - Loss of negative pressure in the controlled area.
 - Discovery that fiber levels inside or outside the control area have exceeded prescribed limits.
 - Site instability encountered during the project.
 - Spills during transport or disposal.
- f. A notification listing of personnel and organizations to be contacted by the abatement Subcontractor in the event of an incident, emergency or contingency.
- g. The 24-hour contact point for the abatement Subcontractor and the designated "competent person" to contact in case of an on-site problem. Response time to the site shall not exceed 1 hour from the time of the notification.
2. Notifications: Copies of EPA and OSHA notifications submitted prior to work.
- 3.

BID
DOCUMENTS
August 9, 2017

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

STATE OF ALASKA
SHARED SERVICES OF ALASKA

Facilities Section
PO Box 11210
Juneau, AK 99811-0210

ALASKA STATE OFFICE BUILDING
7TH & 8TH FLOOR RENOVATIONS



NorthWind Architects, LLC
www.NorthWindArch.com
126 Seward Street
Juneau, AK, 99801

Dahlberg Design, L.L.C.
www.dahlberg.design
222 Seward Street
Juneau, AK, 99801

← 1" ACTUAL →
IF THE ABOVE DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING WILL HAVE BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES.

DRAWN BY: GDM [08-08-2017]

ASB5.1

ABATEMENT SPECIFICATIONS

PROJECT DESIGNATION NUMBER

2018-0222-3725

STATE	YEAR
ALASKA	2017

NWA-1148.57 DOA MAIL

4.

Competent Person: Submit the name(s) proposed, address (es), telephone number(s) and complete documentation the individual's qualifications proving the person's qualifications meet the requirements described in DEFINITIONS above.
5.

Industrial Hygienist: Submit the name, address and telephone number of the Industrial Hygienist selected to prepare the asbestos work plan, and direct monitoring and training. Include documentation proving the person's qualification meet the requirements described in DEFINITIONS above.
6.

Training: Submit certificates signed by each employee and the Industrial Hygienist that each employee has received the training required by 29 CFR 1910.1001, 29 CFR 1926.1101, and appropriate State of Alaska Regulations and this specification. Include proof that each employee is certified as an asbestos worker in the State of Alaska in accordance with current state regulations.
7.

Testing Laboratory: If Asbestos Air Monitoring is included in the Contract, submit the name, address, telephone number and qualifications of the independent testing laboratory selected to perform the monitoring, testing and reporting of airborne asbestos fibers. Include documentation certifying that all technicians performing the analysis have been judged proficient by successful participation within the last year in the NIOSH PAT program or the equivalent AIHA program, or an equivalent inter-laboratory testing program.
8.

Protective Equipment and Protective Method Plans: Details of planned personnel protective equipment requirements and protective methods, including respirators as will be required for each specific type of operation or condition. Include supporting justification when alternate (e.g., less than the maximum specified) protection is proposed.
- B.

Any changes to procedures, methods, conditions, etc., identified in the approved Pre-Work Submittal must be submitted in writing for review and approval by the Engineer prior to the inception of the change. The changes must be reviewed and approved by the Certified Industrial Hygienist prior to being submitted to the Engineer for review. Where changes must be implemented immediately for the protection of workers, personnel outside the work area, the structure or the environment, and the change established an environment more stringent than that previously existing, the changes may be implemented by the competent person or other individuals with appropriate authority, and the Engineer notified immediately. These changes will then be submitted in writing within 24 hours for final review and approval.
- C.

Any analytical data collected as part of the pursuit of the WORK shall be considered the property of the Owner and shall be submitted to the Owner within 24 hours of receipt of such data.

1.6 POST-WORK SUBMITTALS

- A.

The Post-Work Submittal shall be submitted digitally and approved by the Engineer as complete before final payment is approved. The Post-Work Submittal shall include:

1.

Work Log: A detailed log of all operations involving the asbestos portion of the work, to include but not be limited to:

a.

The names, entry and exit dates and times, duties performed, and protective equipment worn by each individual during their time within the asbestos control area, covering all personnel, (including inspectors, monitoring personnel and visitors) entering each asbestos control area. This information is normally provided in the form of fully legible copies of the entry/exit control log for the control area. Each day's listing should also include a summary of the work performed (quantity, type, location, etc.).

b.

A listing of all personnel performing asbestos related work outside the control area, showing duties performed, date, time, duration, and location of the work and protective equipment worn while performing these duties. Each day's listing should also include a summary of the work performed (quantity, type, location, etc.).

c.

Copies of the complete and reviewed sampling results as an attachment.

d.

A summary of each problem, incident, contingency, and emergency that occurred, and the actions taken to resolve the situation.

e.

A copy of all shipping manifests that document disposal of all ACM at an approved solid waste facility.

PART 3. EXECUTION

3.1 PROTECTION OF ADJACENT AREAS

- A.

Perform all asbestos work in such a way as to not contaminate 1) adjacent areas, or 2) interior spaces of components within the abatement area. At the finish of the abatement project, all Work areas should be ready for non-hazardous construction trades. Should any areas become contaminated during the implementation of the abatement plan, such areas shall be cleaned and/or restored to their original condition as directed by the Engineer at the abatement Subcontractor's expense.

3.2 NOTIFICATIONS AND PERMITS

- A.

The abatement Subcontractor shall notify the regional office of the United States Environmental Protection Agency (US EPA) in accordance with 40 CFR 61 Subpart M.
- B.

The abatement Subcontractor shall also notify the Alaska Department of Labor, Occupational Safety and Health Division (AK OSHD) in accordance with current State of Alaska asbestos regulations.
- C.

The abatement Subcontractor shall notify the Engineer 48 hours prior to commencement of any abatement work, and immediately upon completion or termination of the work.
- D.

The abatement Subcontractor shall carry out removal, transportation, and disposal in accordance with current state and federal requirements, and shall secure necessary permits in conjunction with asbestos removal and transport, and provide timely notification of such actions as may be required by current federal, state, regional and local authorities.

3.3 COMPETENT PERSON

- A.

All asbestos work, including setup and teardown of the asbestos enclosure(s) and control area(s), and all asbestos disposal operations shall be under the direct and continuous on-site supervision of the Competent Person (who is identified in the Pre-Work Submittal and whose qualifications and duties are defined in DEFINITIONS above). The Industrial Hygienist shall oversee all activities of the competent person.

3.4 INDUSTRIAL HYGIENIST

- A.

The abatement Subcontractor shall conduct all monitoring, training and asbestos work under the direction of the Industrial Hygienist (who is identified in the Pre-Work Submittal and whose qualifications and duties are defined in DEFINITIONS above).
- B.

While performing asbestos work, the abatement Subcontractor may be subject to on-site inspection by the Owner, the Engineer (or his designated representative), fire, safety, and health personnel, and Federal and State inspectors. If the work is in violation of specification requirements, or applicable Federal or State regulations, the Engineer may issue a stop-work order to be in effect immediately, and which will remain in place until the violation(s) are resolved and, if required by the Engineer, a new or amended asbestos work plan is submitted. Restart will not be accomplished without approval of the Engineer. Standby time and expenses required to resolve the violation(s) and provide new or amended submittals shall be at the abatement Subcontractor's expense.

3.5 SAFETY AND HEALTH COMPLIANCE

- A.

The abatement Subcontractor shall comply with all laws, ordinances, rules and regulations of Federal, State, regional and local authorities regarding demolition, handling, storing, transporting and disposing of asbestos and asbestos containing materials. He shall also comply with the applicable requirements of the current issues of 29 CFR 1910.1001, 29 CFR 1926.1101, and 40 CFR 61 Subparts A and M. Asbestos removal is also required to comply with the provisions of the State of Alaska, Solid Waste Management Codes, title 18 of the Alaska Administrative Code, and the State of Alaska OSHA Standards.

3.6 ASBESTOS WORK PROCEDURES

- A.

The work specified in these contract documents shall be carried out in accordance with all applicable local, state, and federal regulations, and the following special requirements:

1.

OSHA Class I asbestos WORK: Class I WORK shall comply with the appropriate sections of OSHA 1926.1101(g)(4) "Class I Requirements" and OSHA 1926.1101(g)(5). Certified asbestos abatement workers are a requirement for Class I asbestos WORK.

2.

OSHA Class II asbestos WORK: Class II WORK shall comply with the appropriate sections of OSHA 1926.1101(g)(7) "Work Practices and Engineering Controls for Class II WORK" and OSHA 1926.1101(g)(8). Certified asbestos abatement workers are a requirement for Class II asbestos WORK.
3.

Asbestos Handling Procedures: The CONTRACTOR shall sufficiently wet ACM with a fine spray of amended water during removal, cutting or other handling to reduce the emission of airborne fibers. All removed and waste materials shall be placed in plastic disposal bags or other approved containers. Under no circumstances shall asbestos waste or debris be allowed to accumulate in the WORK area.
4.

Disposal of Asbestos: Procedures for hauling and disposal shall comply with 40 CFR 61, Subpart M, 40 CFR 241 and 257, and state, regional, and local standards. Abated material and associated debris shall be packaged in accordance with applicable regulations and disposed of at an approved facility. All ACM shall be transported in an enclosed vehicle.

3.7 MONITORING

- A.

The Owner shall provide third-party on-site air monitoring for the duration of the Project, including "Area Monitoring", "Environmental Monitoring", "Baseline (Background) Monitoring", "Initial Exposure Assessment Monitoring" and "Clearance Monitoring" all as specified in Paragraph 1.5 "DEFINITIONS", above.
- B.

The CONTRACTING OFFICER reserves the right to perform confirmation air monitoring including all elements summarized in Asbestos Air Monitoring in DEFINITIONS, above.
- C.

Clearance Procedures

1.

After abatement activities are complete but prior to the application of any lockdown sealant, the abatement Subcontractor and the Engineer or his representative shall perform a detailed visual inspection of the work area for any visible asbestos residual. If any is found, a complete re-cleaning of the area shall be performed, and the area re-inspected. Once the visual inspection is satisfactorily completed the lockdown shall be applied.

2.

After the area has passed the visual inspection and has received spray application of lockdown sealant but prior to the removal of the enclosure, clearance monitoring of the WORK area shall be accomplished to confirm the effectiveness of the clean-up operations. Such sampling shall not be performed until all areas and materials within the WORK area are fully dry.

3.

Clearance sampling will be done under aggressive conditions using PCM analysis. Once clearance criteria have been achieved, clearance shall be considered final and removal of any protective enclosure shall be accomplished.

4.

The abatement Subcontractor shall be responsible for all costs relating to all visual inspections after the second failed visual inspection.

END OF ASBESTOS ABATEMENT – SECTION 028213

BID
DOCUMENTS
August 9, 2017

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

STATE OF ALASKA
SHARED SERVICES OF ALASKA

Facilities Section
PO Box 11210
Juneau, AK 99811-0210

ALASKA STATE OFFICE BUILDING
7TH & 8TH FLOOR RENOVATIONS



NorthWind Architects, LLC
www.NorthWindArch.com
126 Seward Street
Juneau, AK, 99801

Dahlberg Design, LLC
www.dahlberg.design
222 Seward Street
Juneau, AK, 99801

← ACTUAL →

IF THE ABOVE DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING WILL HAVE BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES.

DRAWN BY: GDM [08-08-2017]

ASB5.2

ABATEMENT SPECIFICATIONS

PROJECT DESIGNATION NUMBER

2018-0222-9725

STATE	YEAR
ALASKA	2017

SYMBOLS

	DEMOLITION NOTE
	CONSTRUCTION NOTE
	ACCESS DOOR
	ABANDON
	EXISTING
	RELOCATE
	REMOVE
	THERMOSTAT – ROOM
FPCV	FINNED PIPE CONVECTOR
	REMOVAL/CONNECTION POINT
HS	HEATING SUPPLY
HR	HEATING RETURN
CUH	CABINET UNIT HEATER
	DETAIL CALLOUT
CW	COLD WATER
HW	HOT WATER
W	WASTE
V	VENT
SA	SUPPLY AIR
RA	RETURN AIR

PLUMBING EQUIPMENT SCHEDULE

EQUIPMENT	DESIGN MANUFACTURER	OPTIONS/TRIM
SINK, S-1	JUST ELKAY	SINGLE COMPARTMENT, SELF RIMMING, LEDGEBACK, FULLY UNDERCOATED, PRE-PUNCHED 22"x17" 18 GAGE SS (16"x14"x7-1/2" BOWL). DECK MOUNT SINGLE HOLE GOOSENECK FAUCET WITH 6-1/2" SWIVEL SPOUT. DECK TO TOP OF SPOUT 12-INCHES. ADA COMPATIBLE.

CODE NOTES:

1. ALL WORK TO BE DONE IN ACCORDANCE WITH 2012 INTERNATIONAL BUILDING CODES.

100%

AUGUST 2017

ADDENDUM NUMBER

ATTACHMENT NUMBER

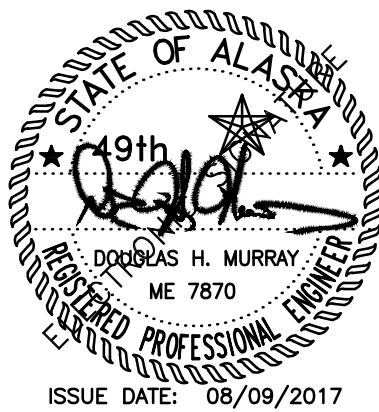
RECORD OF REVISIONS

No.	DATE	DESCRIPTION

STATE OF ALASKA
DEPARTMENT OF ADMINISTRATION

Division of General Services
Facilities Section
PO Box 11210
Juneau, AK 99811-0210

ALASKA STATE OFFICE BUILDING
7TH & 8TH FLOOR RENOVATIONS



NorthWind Architects, LLC
www.NorthWindArch.com
126 Seward Street
Juneau, AK, 99801

← 1" ACTUAL →

IF THE ABOVE DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING WILL HAVE BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES.

DRAWN BY:

M1.0

SYMBOLS & SCHEDULES

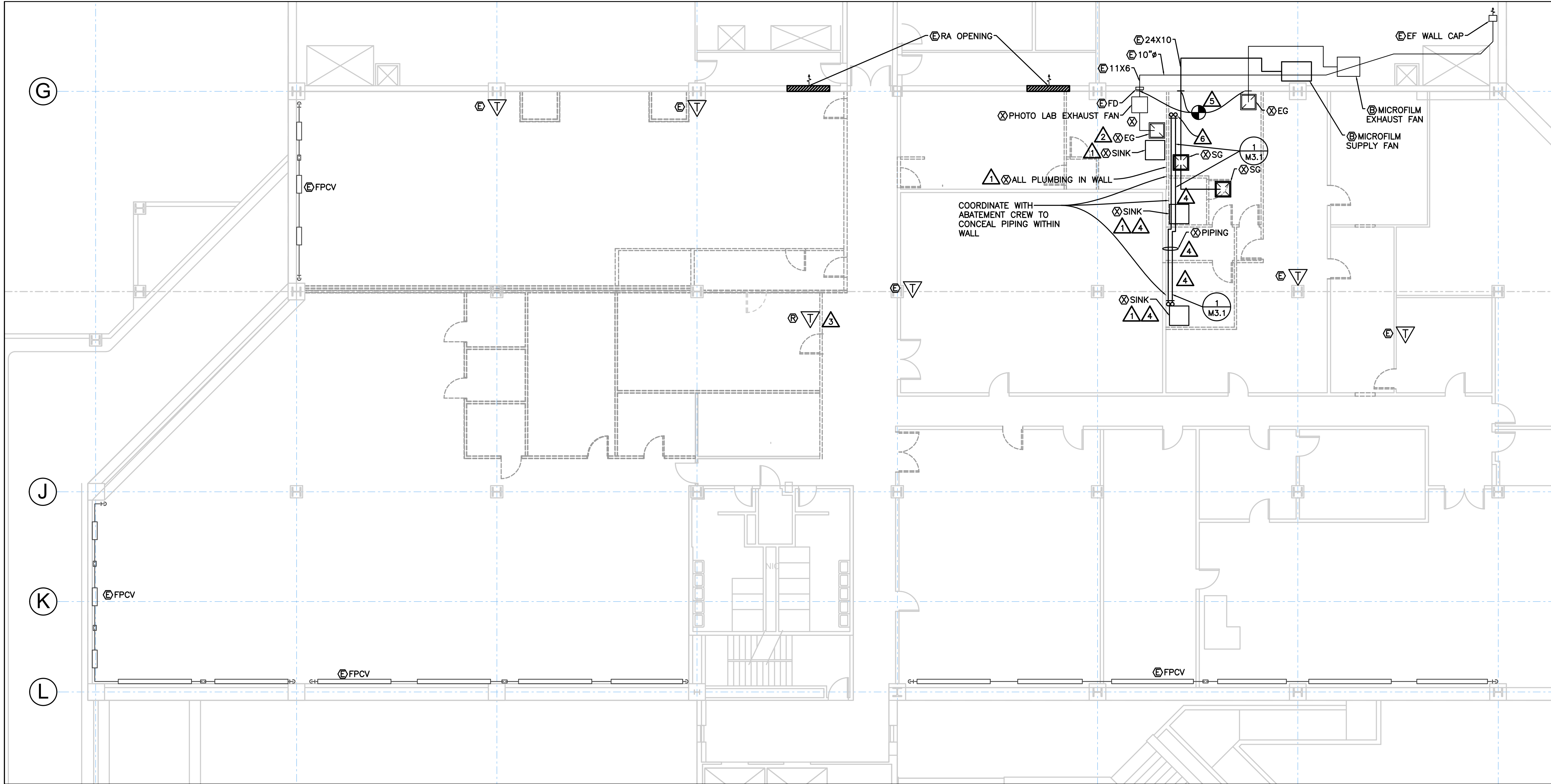
PROJECT DESIGNATION NUMBER

2018-0222-3725

STATE	YEAR
ALASKA	2017



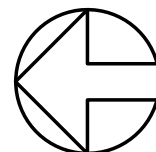
NWA-1148.57 DOA MAIL



1 7TH FLOOR DEMO PLAN
1/8" = 1' SCALE FACTOR 96

SCALE: 0 4' 8' 16'

PROJECT NORTH



DEMOLITION NOTES:

- REMOVE PLUMBING FIXTURE, TRIM, AND SUPPORT. CAP COLD WATER, HOT WATER, WASTE, AND VENTING AT LAST LIVE LOCATION.
- REMOVE EXHAUST FAN AND DUCTWORK. REMOVE WALL MOUNTED TIMER. MECHANICAL CONTRACTOR TO COORDINATE REMOVAL WITH ABATEMENT CONTRACTOR. REMOVAL TO BE ACCOMPLISHED BY ABATEMENT CONTRACTOR.
- RELOCATE DDC THERMOSTAT TO NEW WALL WHERE SHOWN. MECHANICAL CONTRACTOR TO COORDINATE RELOCATION WITH ABATEMENT CONTRACTOR. RELOCATION TO BE ACCOMPLISHED BY ABATEMENT CONTRACTOR.
- REMOVE THERMOSTATIC MIXING VALVE, BACKFLOW PREVENTER, AND WATER FILTER AT FIXTURE. REMOVE ALL PIPING VALVES, SUPPORTS, AND TRIM.
- CAP AND SEAL DUCT AIR-TIGHT.
- REMOVE PIPING TO ABOVE CEILING. SEE DIAGRAM ON M3.1.
- REMOVE GRILLE AND ASSOCIATED DUCTWORK ABOVE CEILING.

CODE NOTES:

- ALL WORK TO BE DONE IN ACCORDANCE WITH 2012 INTERNATIONAL BUILDING CODES.
- COORDINATE ALL WORK WITH ABATEMENT CONTRACTOR.

100%

AUGUST 2017

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

STATE OF ALASKA

DEPARTMENT OF ADMINISTRATION

Division of General Services
Facilities Section
PO Box 11210
Juneau, AK 99811-0210

ALASKA STATE OFFICE BUILDING
7TH & 8TH FLOOR RENOVATIONS

19th
DOUGLAS H. MURRAY
ME 7870
REGISTERED PROFESSIONAL ENGINEER
ISSUE DATE: 08/09/2017

NorthWind Architects, LLC
www.NorthWindArch.com
126 Seward Street
Juneau, AK, 99801

← 1" ACTUAL →

IF THE ABOVE DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING WILL HAVE BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES.

DRAWN BY:

M1.1-7

7TH FLOOR DEMO PLAN

PROJECT DESIGNATION NUMBER

2018-0222-3725

STATE	YEAR
ALASKA	2017

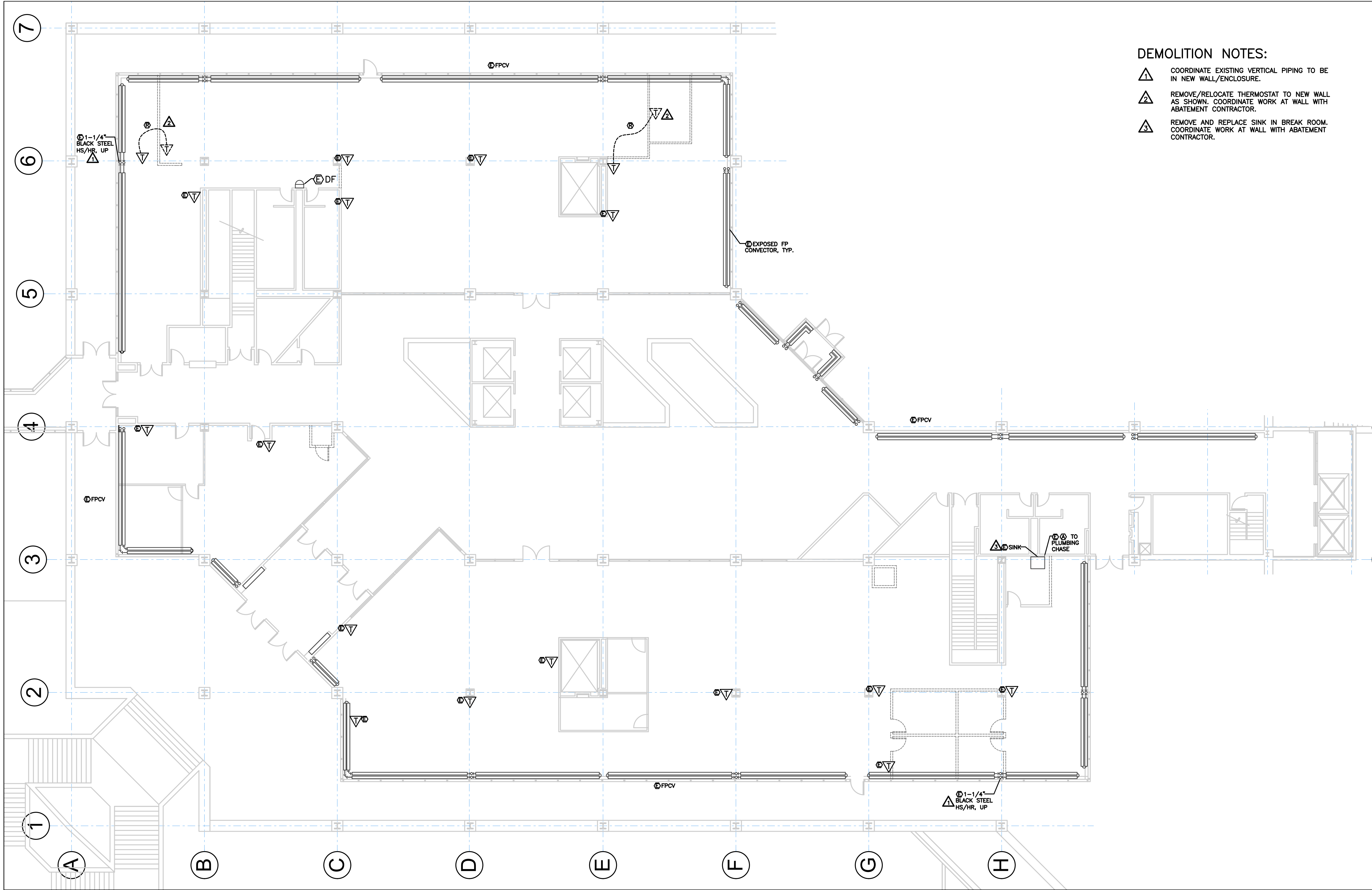
PDC

ENGINEERS

PLAN • DESIGN • CONSTRUCT

907 Capitol Ave., Juneau, Alaska 99801
907.780.6151 | AECC605

NWA-1148.57 DOA MAIL



DEMOLITION NOTES:

- △ COORDINATE EXISTING VERTICAL PIPING TO BE IN NEW WALL/ENCLOSURE.
- △ REMOVE/RELOCATE THERMOSTAT TO NEW WALL AS SHOWN. COORDINATE WORK AT WALL WITH ABATEMENT CONTRACTOR.
- △ REMOVE AND REPLACE SINK IN BREAK ROOM. COORDINATE WORK AT WALL WITH ABATEMENT CONTRACTOR.

100%

AUGUST 2017

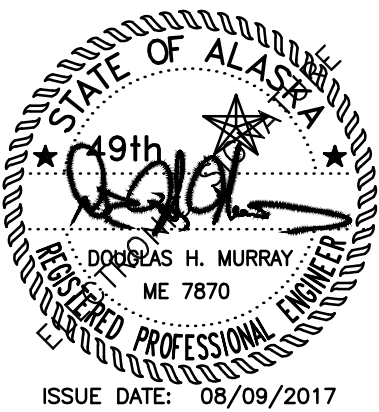
ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

STATE OF ALASKA
DEPARTMENT OF ADMINISTRATION
Division of General Services
Facilities Section
PO Box 11210
Juneau, AK 99811-0210
ALASKA STATE OFFICE BUILDING
7TH & 8TH FLOOR RENOVATIONS



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126 Seward Street
Juneau, AK, 99801

IF THE ABOVE DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING WILL HAVE BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES.

DRAWN BY:

M1.1-8

8TH FLOOR DEMO PLAN

PROJECT DESIGNATION NUMBER

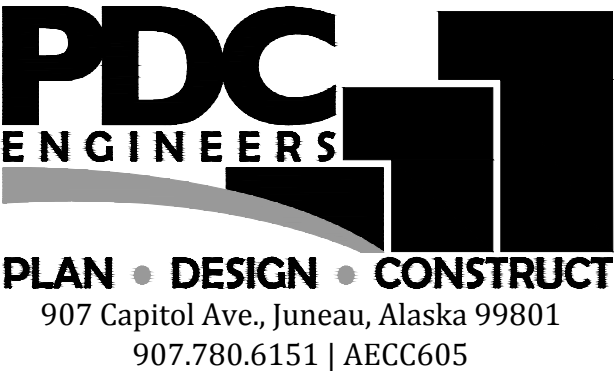
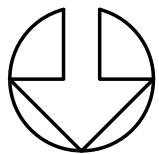
2018-0222-3725

STATE	YEAR
ALASKA	2017

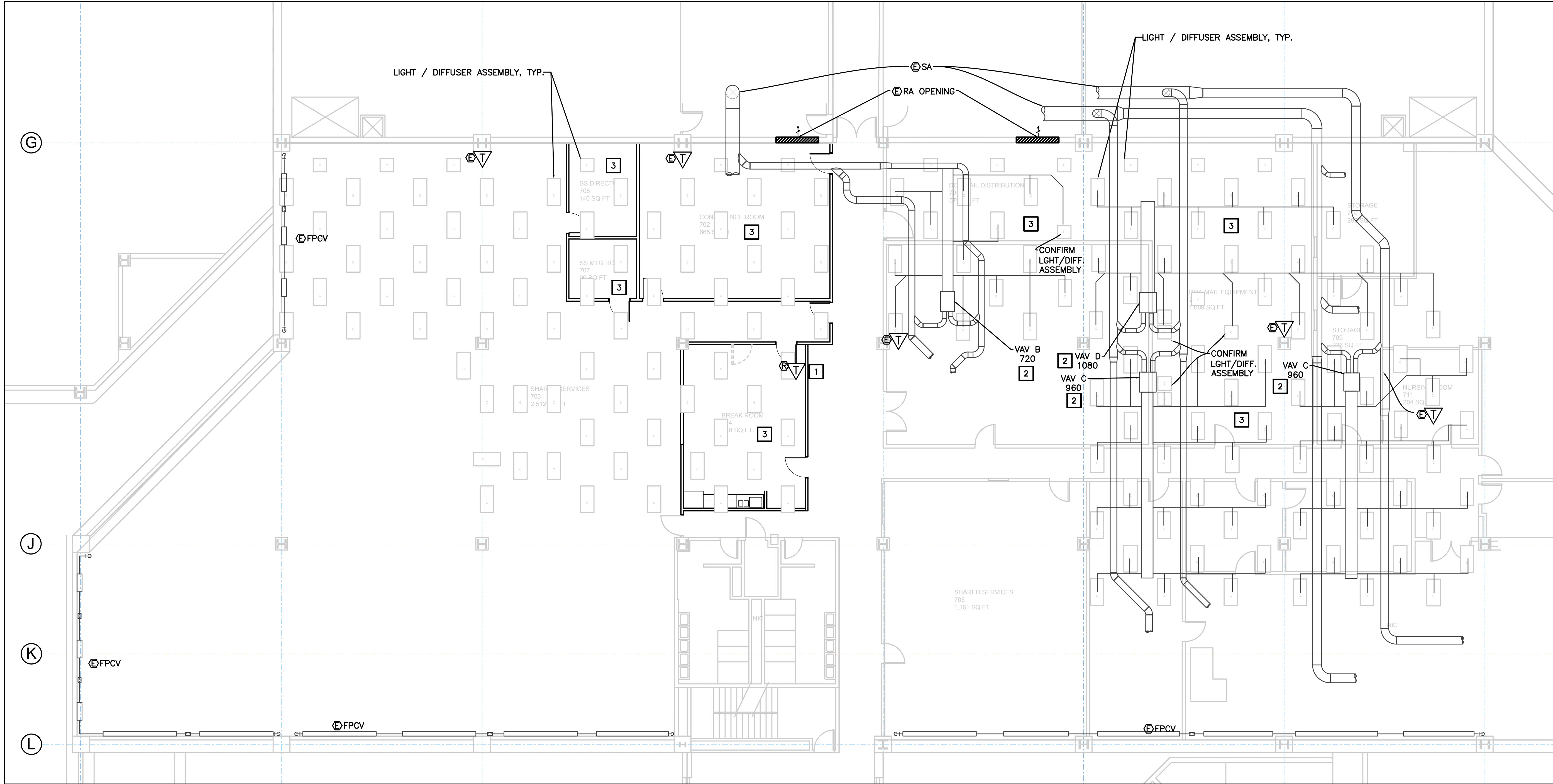
1 8TH FLOOR DEMO PLAN
3/32" = 1' SCALE FACTOR 128

SCALE: 0 5' 10' 20'

PROJECT NORTH



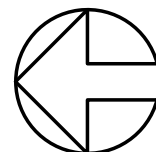
NWA-1148.57 DOA MAIL



1 7TH FLOOR PLAN
1/8" = 1' SCALE FACTOR 96

SCALE: 0 4' 8' 16'

PROJECT NORTH



CONSTRUCTION NOTES:

- 1 RELOCATE DDC THERMOSTAT TO NEW WALL WHERE SHOWN.
- 2 TEST AND MEASURE EXISTING VAV AND DIFFUSER SA/RA AIR VOLUMES.
- 3 TEST AND MEASURE DIFFUSER SA/RA AIR VOLUMES IN ROOM.

CODE NOTES:

1. ALL WORK TO BE DONE IN ACCORDANCE WITH 2012 INTERNATIONAL BUILDING CODES.
2. THE EXISTING VENTILATION IN THE PROJECT AREA IS SHOWN FOR REFERENCE AND WAS TAKEN FROM ORIGINAL CONSTRUCTION DRAWINGS.
3. COORDINATE ALL WORK WITH ABATEMENT CONTRACTOR.

100%

AUGUST 2017

ADDENDUM NUMBER

ATTACHMENT NUMBER

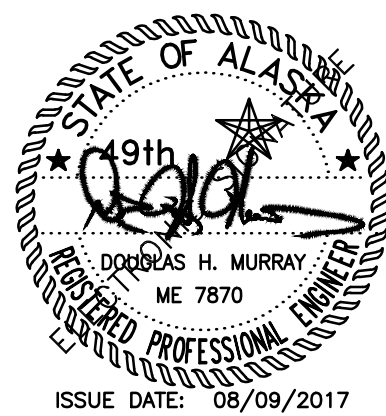
RECORD OF REVISIONS

No.	DATE	DESCRIPTION

STATE OF ALASKA
DEPARTMENT OF ADMINISTRATION

Division of General Services
Facilities Section
PO Box 11210
Juneau, AK 99811-0210

ALASKA STATE OFFICE BUILDING
7TH & 8TH FLOOR RENOVATIONS



NorthWind Architects, LLC
www.NorthWindArch.com
126 Seward Street
Juneau, AK, 99801

1" ACTUAL

IF THE ABOVE DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING WILL HAVE BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES.

DRAWN BY:

M2.1-7

7TH FLOOR PLAN

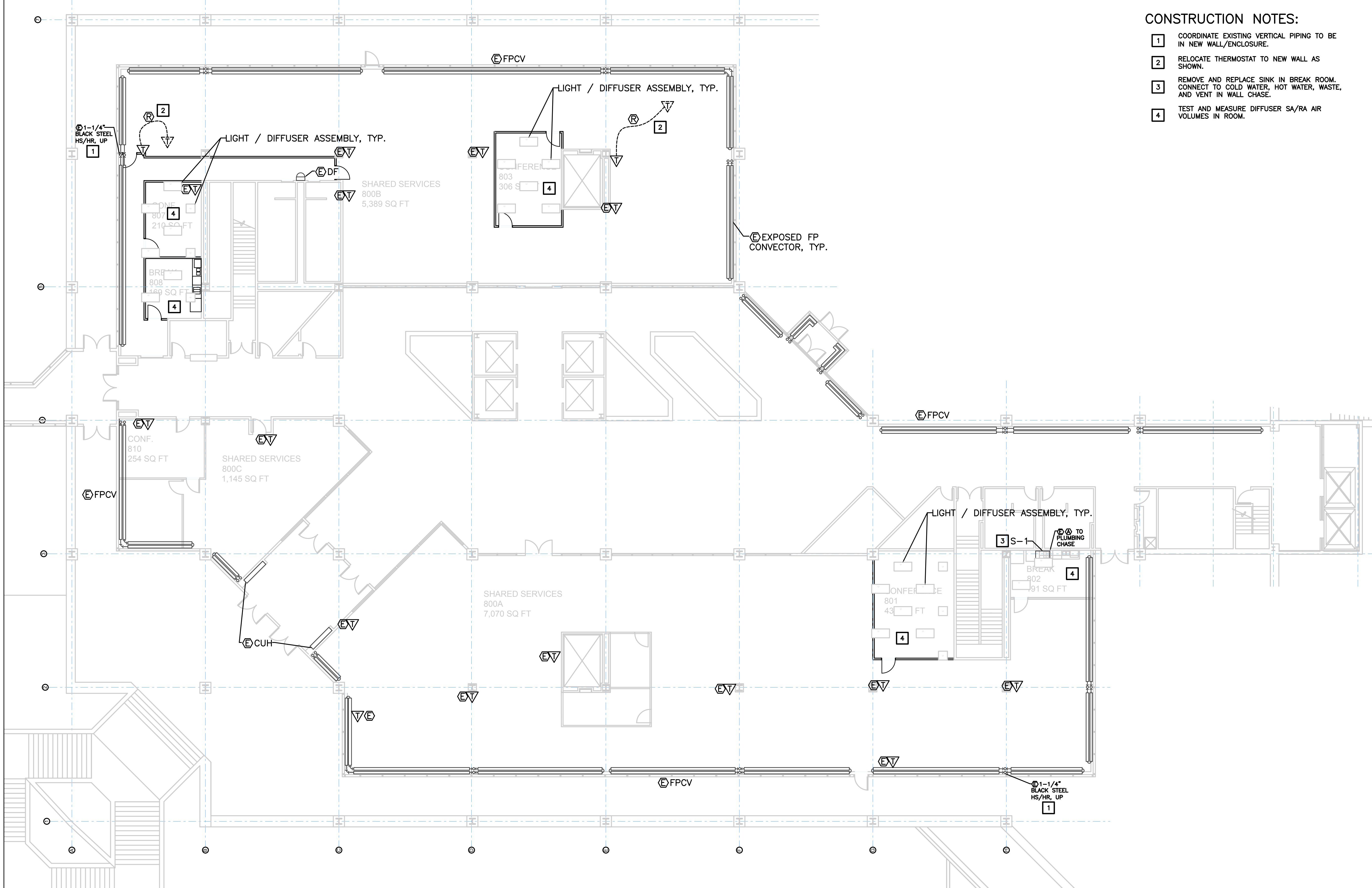
PROJECT DESIGNATION NUMBER

2018-0222-3725

STATE	YEAR
ALASKA	2017

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907.780.6151 | AECC605

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- CONSTRUCTION NOTES:
- 1 COORDINATE EXISTING VERTICAL PIPING TO BE IN NEW WALL/ENCLOSURE.
 - 2 RELOCATE THERMOSTAT TO NEW WALL AS SHOWN.
 - 3 REMOVE AND REPLACE SINK IN BREAK ROOM. CONNECT TO COLD WATER, HOT WATER, WASTE, AND VENT IN WALL CHASE.
 - 4 TEST AND MEASURE DIFFUSER SA/RA AIR VOLUMES IN ROOM.

100%

AUGUST 2017

ADDENDUM NUMBER

ATTACHMENT NUMBER

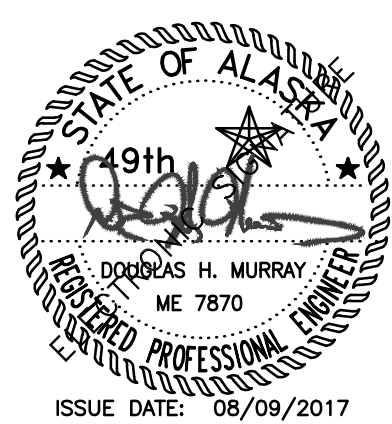
RECORD OF REVISIONS

No.	DATE	DESCRIPTION

STATE OF ALASKA
DEPARTMENT OF ADMINISTRATION

Division of General Services
Facilities Section
PO Box 11210
Juneau, AK 99811-0210

ALASKA STATE OFFICE BUILDING
7TH & 8TH FLOOR RENOVATIONS



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DRAWN BY:

M2.1-8

8TH FLOOR PLAN

PROJECT DESIGNATION NUMBER

2018-0222-3725

STATE

ALASKA

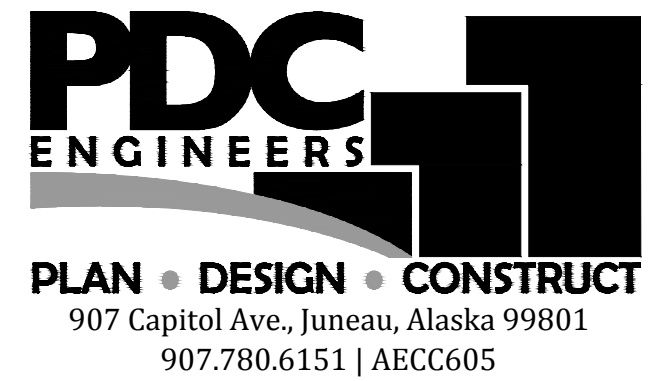
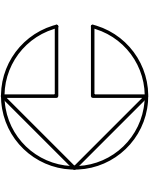
YEAR

2017

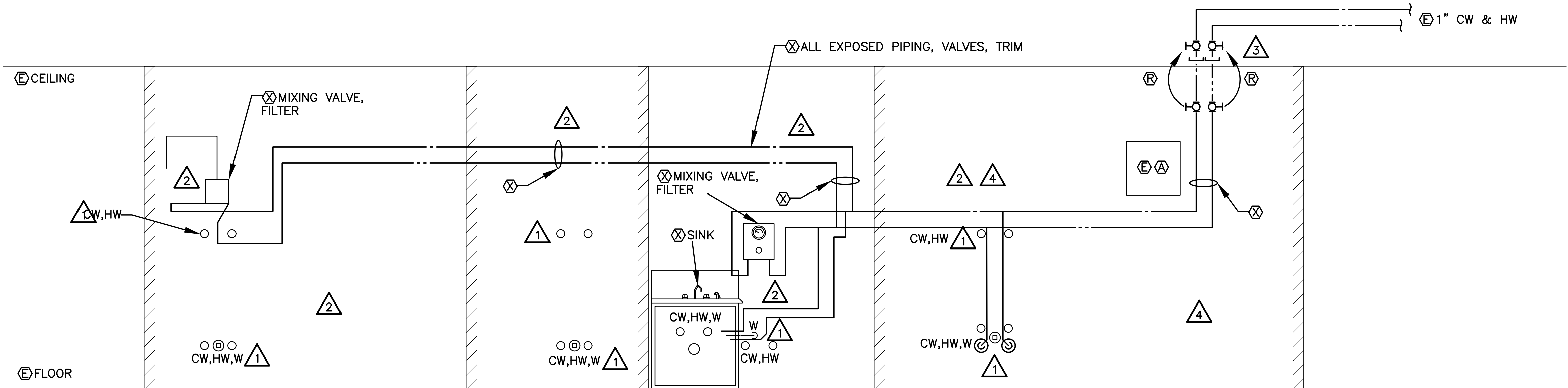
1 8TH FLOOR PLAN
3/32" = 1' SCALE FACTOR 128

SCALE: 0 5' 10' 20'

PROJECT NORTH



NWA-1148.57 DOA MAIL



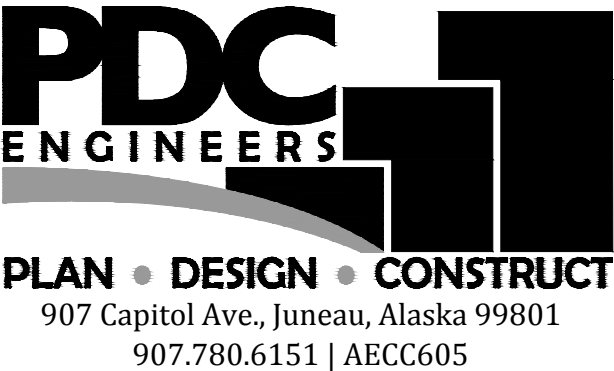
1 7TH FLOOR PIPING DIAGRAM – LAB AREA
NO SCALE

DEMOLITION NOTES

- 1 REMOVE AND CAP ALL EXPOSED PIPING WITHIN WALL.
- 2 REMOVE ALL PIPING AND ASSOCIATED FIXTURES, VALVES, AND TRIM.
- 3 RELOCATE VALVES AND CAP PIPING ABOVE CEILING.
- 4 REMOVE ALL PIPING, SUPPORTS, AND TRIM IN WALL TO BE DEMOLISHED.

CODE NOTES:

- ALL WORK TO BE DONE IN ACCORDANCE WITH 2012 INTERNATIONAL BUILDING CODES.
- PIPING SYSTEM SHOWN DOES NOT INCLUDE ALL VALVES, TRIM, OR SUPPORTS. REMOVE ALL EXPOSED PLUMBING SYSTEM COMPONENTS.



100%

AUGUST 2017

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

STATE OF ALASKA
DEPARTMENT OF ADMINISTRATION
Division of General Services
Facilities Section
PO Box 11210
Juneau, AK 99811-0210

ALASKA STATE OFFICE BUILDING
7TH & 8TH FLOOR RENOVATIONS

NorthWind Architects, LLC
www.NorthWindArch.com
126 Seward Street
Juneau, AK, 99801

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IF THE ABOVE DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING WILL HAVE BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES.

DRAWN BY:

M3.1

PLUMBING DETAILS

PROJECT DESIGNATION NUMBER

2018-0222-3725

STATE	YEAR
ALASKA	2017

NWA-1148.57 DOA MAIL

MECHANICAL SPECIFICATIONS

SECTION 15010 - GENERAL MECHANICAL

1. WORK INCLUDED: The work consists of furnishing labor, equipment, and materials in accordance with the specifications or drawings, or both, together with any incidental items not shown or specified which can be reasonably inferred or taken as belonging to the work and necessary in good practice to provide a complete system described or shown as intended. Equipment installed shall be identical and of equal quality as specified.

2. CODES AND REGULATIONS: All work hereunder shall be strictly in conformance with 2012 International Building Codes and 2012 Uniform Plumbing Code, State of Alaska and City & Borough of Juneau Requirements, latest National Electric Code and applicable codes, and regulations. All electrical equipment shall bear the U.L. label.

3. APPROVALS: Trade names and catalog numbers of manufactured products included herein are intended to indicate the type, size, and grade of quality of equipment and materials required and such equipment and materials are approved for installation, subject to full compliance with the specifications. Requests for approval of other manufacturers than those specified must be accompanied by complete descriptions including overall dimensions, performance data, and, if catalog material, identification of specific products or items proposed.

4. DATA REQUIRED: Furnish approval data for items where data is required. Other or additional data, as the Owner may deem necessary, shall also be provided when requested. Approval of the data shall not eliminate responsibility for compliance with the drawings or specifications unless specific attention has been called in writing to proposed deviations at the time of transmittal of the data and such deviations have been approved, nor shall it eliminate the responsibility for freedom of errors of any sort in the data.

5. AS-BUILT DRAWINGS: All changes shall be noted on a set of blueline prints as data for later preparation of as-built drawings. The prints marked for as-built conditions shall be delivered to the Owner prior to the Contractor's application for final payment.

6. ACCESSIBILITY: Valves, gages, fittings, or other equipment or specialties requiring frequent reading, cleaning, adjustment, inspection, repair, or removal shall be conveniently and accessibly located so that all equipment or parts thereof requiring removal can be easily removed.

7. ELECTRICAL WORK: Includes control wiring for electrical equipment specified herein. Wiring from equipment power inlet, or from outlets provided in the ELECTRICAL division. Such wiring provided as required whether shown on the drawings or not. Work in accordance with the ELECTRICAL specifications and applicable codes and the National Electrical Code. Conductors to be copper only. Low voltage control wiring in accessible areas in conduit or otherwise protected. All conduit and wiring in finished spaces shall be concealed unless approved otherwise by the Owner. Low voltage wiring to be 18 AWG minimum.

8. OPERATING AND MAINTENANCE DATA: Provide manufacturers' instructions for operation and maintenance of all mechanical equipment and specialties, including replacement parts lists, capacity curves or charts, equipment data sheets, manufacturers' literature on the equipment, and as-built wiring diagrams and control drawings, all suitable for side binding to 8-1/2 x 11 inch size. All data not applicable to the job is to be crossed out or deleted.

SECTION 15050 - BASIC MATERIALS AND METHODS

1. DOMESTIC WATER PIPE AND FITTINGS: Above ground mains and branches to be hard-drawn copper tubing, FS WW-T-799d, Type L, Class 1, with copper solder fittings. Install piping per manufacturers requirements. All components to be lead free as required by UPC.

2. FLOOR, WALL AND CEILING PLATES: Nickel-plated or stainless steel, of sufficient size to completely cover pipe sleeve or hole, and fit tightly to surface. Wall and ceiling plates secured to pipe.

3. WASTE AND VENT: Above ground to be no-hub coated cast-iron pipe and fittings, CISPI Standard 301-72, or Schedule 40 galvanized or Schedule 40 ABS. All vertical waste piping shall be cast-iron for sound deadening purposes.

4. UNIONS: Installed in piping connections to all equipment and where shown or required, arranged to facilitate removal or replacement of equipment.

5. PIPE SUPPORTS: Per Uniform Plumbing Code Table 313.1 for specific piping system utilized.

6. WALLS, FLOORS, AND CEILING PENETRATIONS: In rated walls, floors, and ceilings, all ducts, piping, conduit, and penetrations by equipment furnished under this division through all one-hour or greater rated walls, floors, ceilings, and partitions sealed airtight with fire, equivalent to Dow Corning Fire Stop foam or Fyre Putty sealant. Other products may be used upon approval. In non-rated walls, floors, and ceilings, all ducts, piping, conduit, and penetrations by equipment furnished under this division through non-rated walls, floors, ceilings, and partitions installed with a neat-appearing penetration. Insulated pipes with insulation butted to wall, floor, or ceiling. Uninsulated pipes, ducts, or conduit sealed with silicone or cement.

7. SYSTEM VALVES: 125 psi working pressure. Full Port Ball valve, unless shown or specified otherwise. Valves at equipment connections are to be same size as connecting piping. Valve stems positioned horizontal or above horizontal. NSF approved.

SECTION 15250 - INSULATION

1. PIPE AND EQUIPMENT INSULATION: All piping insulation must have a flame spread/smoke developed rating of 25/50 or less per ASTM E-84. Mineral fiber, 1 inch thick up to 3 inch IPS domestic cold and hot water, with ½-inch thick to individual fixtures. FS HH-I-558b, Form D, Type III, Class 12, with all-purpose flame retardant jacket. By skilled appliers directly in the employ of a firm specializing in this type of work. Placed after the entire system has been tested and approved, unless otherwise approved by the Owner for each section of piping. Exposed pipe insulation fully covered with vynil jacketing. Insulate all domestic water and heating piping.

2. Safety covers below ADA exposed plumbing fixtures: Manufactured safety cover insulation kits are acceptable. Similar and equal to Plumberex Handy Shield, Specialty Products, or Truebro Inc. Lav-Guard kits. Installed on ADA compliant lavatories and sink.

SECTION 15400 - PLUMBING SYSTEMS

1. WATER PIPING: Arranged to permit drainage to equipment, mechanical room, or fixtures, pitched at 1/4 inch per 10 feet. Drain valves installed at all low points on mains. Exposed pipes run straight and parallel to building walls. Risers plumb and true. No caulking of joints in steel or copper pipe or of any equipment permitted. Interior of all piping clean before installation. After piping installation and before final connections to branches, risers, or fixtures, piping, including branches and risers, washed out with water. All piping to plumbing fixtures anchored solid at the wall to prevent movement in any direction.

2. DRAINAGE PIPING: Soil, waste, and floor drainage piping run as shown, with grades not less than 1/4 inch per foot. Vent piping pitched 1/4 inch per 10 feet. All material and fittings shall conform to the requirements of the Uniform Plumbing Code. All fixtures individually vented. No horizontal vent less than 6 inches above the overflow line of the fixture served except as shown for floor drain vents below grade. All fixtures vented within 3 feet of the fixture.

3. PIPING TESTS: Enclosed piping tested before concealing. Equipment, gages, controls, and thermometer wells suitably protected during tests. Tests made in the presence of the Owner or their representative. All domestic water piping tested hydrostatically at 125 psi for minimum of one hour. Drainage, waste, and vent piping tested hydrostatically by filling piping with water to highest point for a minimum of one hour. In the above tests, the system under test to remain tight without leaks, displacement, or straining. Leaks developing during tests corrected and tests renewed until a perfectly tight job is obtained. Leakage in threaded piping repaired without caulking and system retested.

SECTION 15450 - PLUMBING FIXTURES AND TRIM

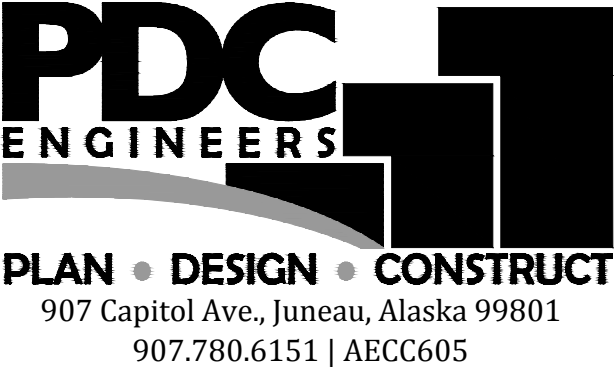
1. All fixtures to be of one manufacture unless specified otherwise. All exposed metal parts of fixtures, trim, and supplies to be polished chromium-plated unless specified otherwise. Escutcheons at wall on all exposed piping. With hot water at left, and cold water at right, and indexed handles if applicable. All sink supply spouts with aerators. Bracing or blocking provided as required to provide solid support. All supply piping to fixture anchored at wall. Accurately plumb, horizontal, and in line. All components to be lead free as required by UPC.

SECTION 15800 - AIR DISTRIBUTION

1. SHEET METAL: All sheet metal fabricated of galvanized steel with construction and installation per latest edition of SMACNA. All joints sealed with water based mastic duct sealant. Ducts anchored to structural parts of the building at intervals not greater than 10 feet. Ducts suspended with 1-inch wide 18-gage galvanized steel straps on ducts 30 inch and smaller, and 1/8-inch thick on ducts over 30 inch. Ducts through floors and walls caulked or sealed around duct, with sheet metal collar attached to duct to neatly cover opening and provide airtight seal.

SECTION 15900 - MECHANICAL CONTROLS

1. CONTROLS: Existing system is SIEMENS Direct Digital Controls. Relocation of thermostats and wiring to be done by Siemens technician. Coordinate with Abatement Contractor and Owner on requirements.



100%		
AUGUST 2017		
ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION
STATE OF ALASKA DEPARTMENT OF ADMINISTRATION Division of General Services Facilities Section PO Box 11210 Juneau, AK 99811-0210		ALASKA STATE OFFICE BUILDING 7TH & 8TH FLOOR RENOVATIONS
NorthWind Architects, LLC www.NorthWindArch.com 126 Seward Street Juneau, AK, 99801		
←1" ACTUAL→ IF THE ABOVE DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING WILL HAVE BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES.		
DRAWN BY:		
M5.0		
SPECIFICATIONS		
PROJECT DESIGNATION NUMBER		
2018-0222-3725		
STATE	YEAR	
ALASKA	2017	

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LEGEND

ABBREVIATIONS:

ACH	ABOVE CABINET HEIGHT
AFF	ABOVE FINISHED FLOOR
GFI	GROUND FAULT INTERRUPTED
RMC	RIGID METAL CONDUIT
U.F.	UNDER FLOOR
UON	UNLESS OTHERWISE NOTED
XFMR	TRANSFORMER

SHEET NOTE SYMBOLS:

(E)	EXISTING TO REMAIN
(N)	NEW
(R)	RELOCATE EXISTING
(X)	REMOVE EXISTING

SERVICE EQUIPMENT:

	PANELBOARD
	VERTICAL RACEWAY

POWER:

	SINGLE RECEPTACLE
	DUPLEX RECEPTACLE
	DOUBLE DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE, ABOVE COUNTER
	MULTI-OUTLET RACEWAY
	FLOOR RECEPTACLE
	EQUIPMENT CONNECTION
	SERVICE POLE
	JUNCTION BOX
	DISCONNECT

LIGHTING CONTROLS:

S	SINGLE POLE SWITCH
---	--------------------

FIRE ALARM:

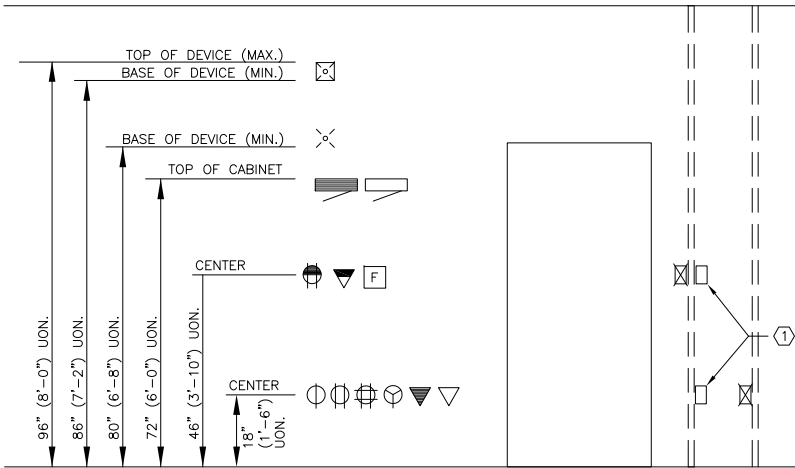
	CABINET
	SMOKE DETECTOR
	THERMAL DETECTOR
	FIRE ALARM HORN/STROBE
	FIRE ALARM STROBE ONLY

NETWORK DEVICES:

	DATA
	DATA, ABOVE COUNTER OR TABLE MOUNTED
	DATA IN FLOOR BOX
	TELEPHONE
	CEILING SPEAKER
	GROMMUTED OPENINGS TO MODULAR FURNITURE

LIGHTING:

	CEILING MOUNTED EXIT LUMINAIRE
	WALL MOUNTED EXIT LUMINAIRE
	LUMINAIRE ON EMERGENCY LIGHTING CIRCUIT
	RECESSED DOWNLIGHT LUMINAIRE



TYPICAL DEVICE MOUNTING HEIGHTS

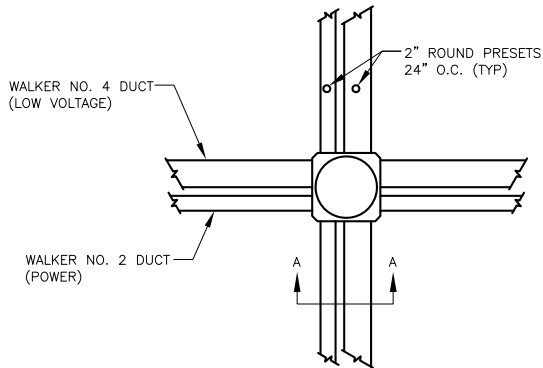
NO SCALE

NOTES:

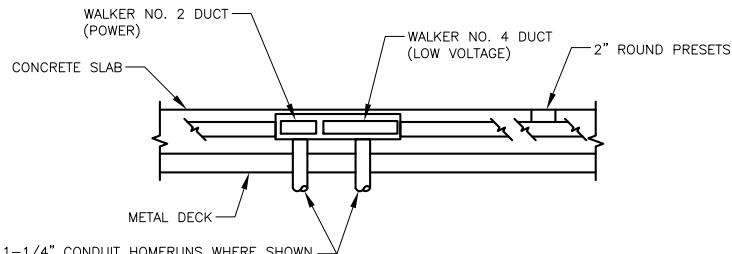
- ALL DEVICES INDICATED TO BE INSTALLED AT DIFFERENT MOUNTING HEIGHTS AND LOCATED WITHIN ONE STUD SPACE FROM EACH OTHER SHALL ALIGN VERTICALLY ON THE SAME SIDE OF THE STUD. WHERE WALL MOUNTED TELEPHONES OCCUR OVER LIGHT SWITCHES, VOLUME CONTROLS, ETC. OFFSET ONE STUD SPACE.
- HEIGHTS SHOWN ARE TYPICAL TO CENTERLINE OF BOX UNLESS OTHERWISE NOTED.
- WHERE EVER DEVICES ARE INDICATED TO BE ABOVE DOORS, DEVICE SHALL BE CENTERED BETWEEN TOP OF DOOR TRIM AND CEILING LINE.
- MOUNTING HEIGHTS SHOWN ON ARCHITECTURAL ELEVATIONS SHALL GOVERN OVER THOSE SHOWN ABOVE.

PROJECTS NOTES:

- 6TH AND 7TH FLOOR WORK IS AN ALTERNATE BID ITEM.
- COORDINATE REMOVAL OF EXISTING ELECTRICAL MATERIALS WITH ABATEMENT TEAM.
- SHEET E1.0 IS A COVER SHEET FOR 6TH, 7TH AND 8TH FLOOR WORK.
- 8TH FLOOR WORK IS A BASE BID ITEM.



PLAN - TYPICAL UNDERFLOOR DUCT JUNCTION BOX



1-1/4" CONDUIT HOMERUNS WHERE SHOWN ON PLAN. WHERE U.F. DUCT RUNS ARE IN THE SLAB ON GRADE, CONDUIT HOMERUNS TERMINATE AT J-BOX CORNERS AND RUN BELOW DUCTS.

SECTION A-A

WALKER DUCT WIRE FILL CAPACITY	
CAT5e CABLES IN NO. 4 DUCT	91
NO. 12 CONDUCTORS IN NO. 2 DUCT	40 & GROUND

NOTE: LOCATE EXISTING UNDER FLOOR DUCT JUNCTION BOXES AND PRESETS. NOTIFY ENGINEER IF PRESETS ARE NOT AVAILABLE TO MOUNT DEVICE BOXES PER DESIGN.

1 DETAIL - EXISTING FLOOR DUCT SYSTEM (IPS WALKER DUCT)

NO SCALE

AUGUST 2017

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STATE OF ALASKA
DEPARTMENT OF ADMINISTRATION

Division of General Services

Facilities Section

PO Box 11210

Juneau, AK 99811-0210

ALASKA STATE OFFICE BUILDING
7TH & 8TH FLOOR RENOVATIONS



NorthWind Architects, LLC
www.NorthWindArch.com
126 Seward Street
Juneau, AK, 99801

Haight & Associates, Inc.
526 Main Street
Juneau, AK, 99801

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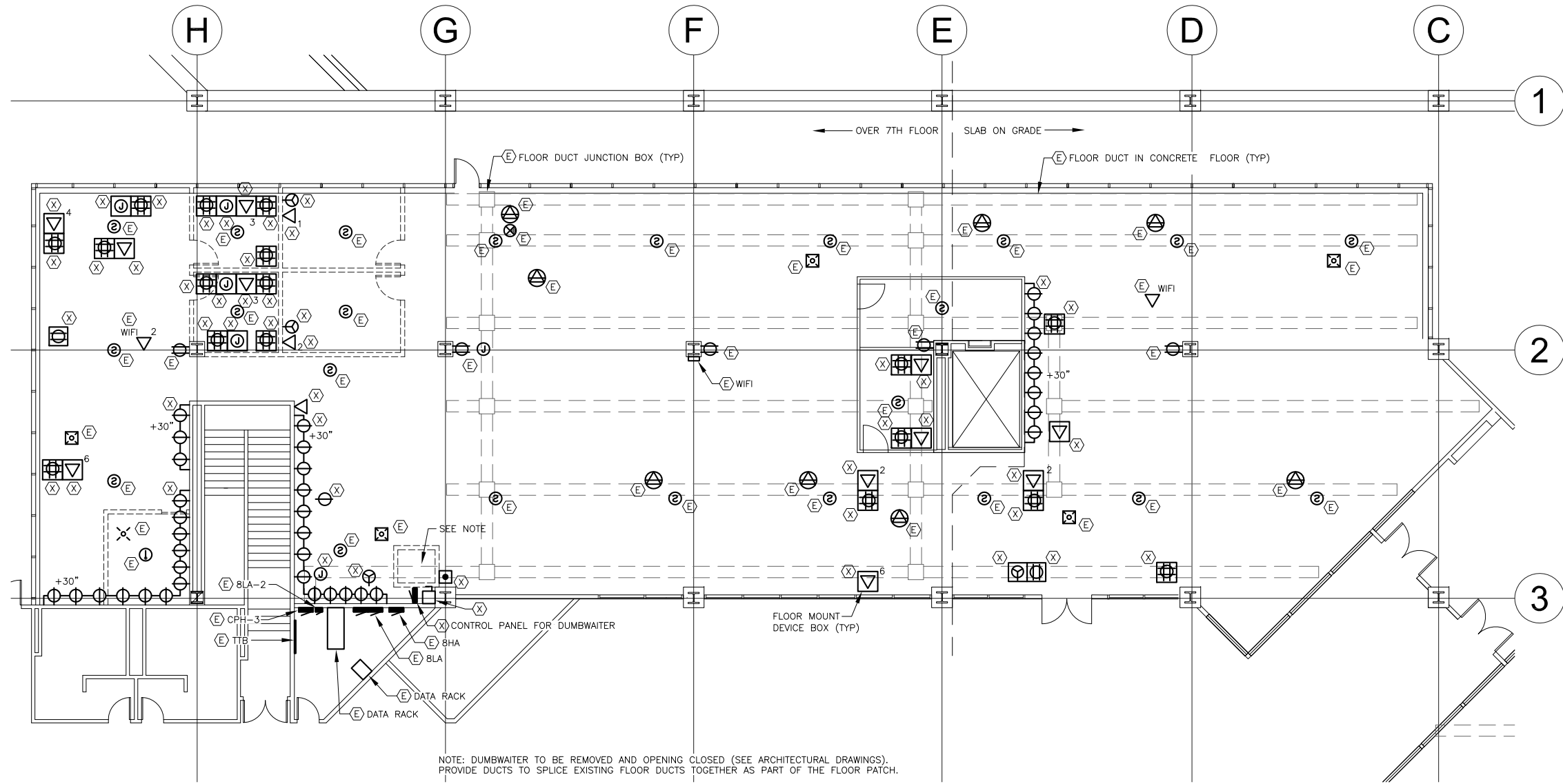
E1.0
LEGEND & DETAIL

PROJECT DESIGNATION NUMBER

2018-0222-3725

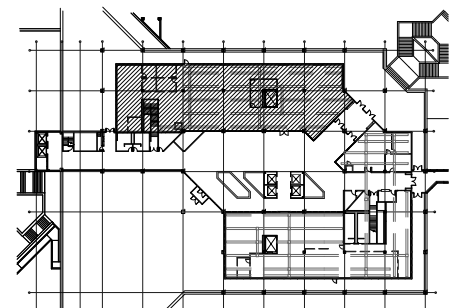
STATE	YEAR
ALASKA	2017

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1 PARTIAL 8TH FLOOR DEMOLITION PLAN

SCALE: 0 4' 8' 16'



KEY PLAN

AUGUST 2017

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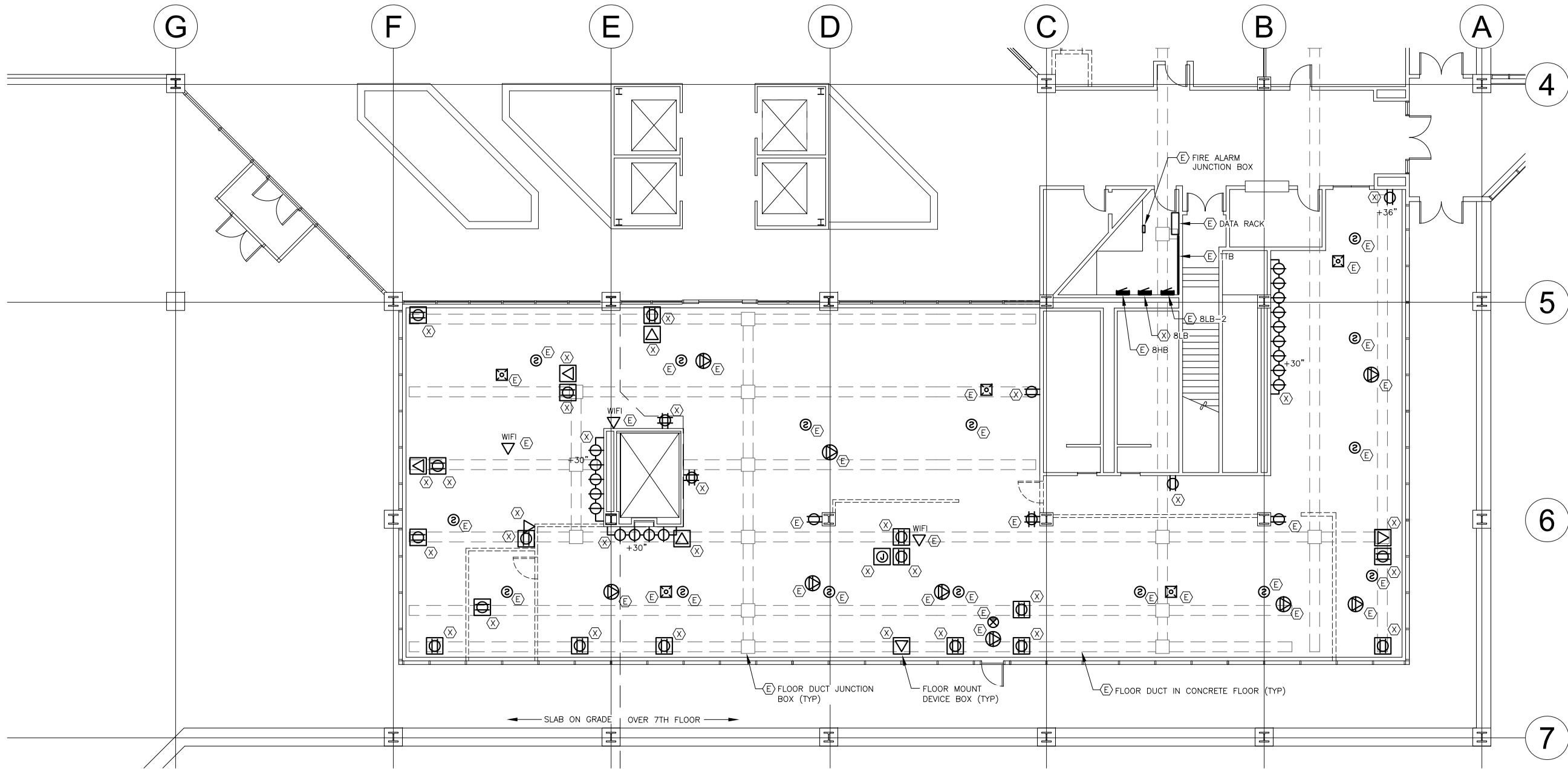
E1.1-8
PARTIAL 8TH FLOOR
DEMOLITION PLAN

PROJECT DESIGNATION NUMBER

2018-0222-3725

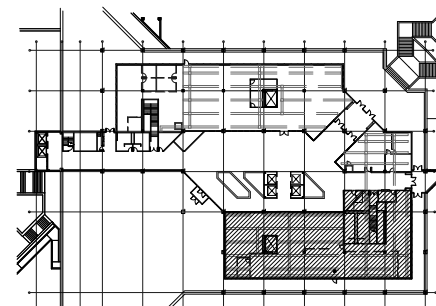
STATE	YEAR
ALASKA	2017

Plotted 8/9/2017 9:32 AM by Peggy Leslie F:\PROJECTS\250 NORTHWIND ARCHITECTS\72 ASOB 8TH FLOOR\DRAWINGS\WORKING\E1.2-8.DWG



1 PARTIAL 8TH FLOOR DEMOLITION PLAN

SCALE: 0 4' 8' 16'



KEY PLAN

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DRAWN BY: REJ		
E1.2-8		
PARTIAL 8TH FLOOR DEMOLITION PLAN		
PROJECT DESIGNATION NUMBER		
2018-0222-3725		
STATE	YEAR	
ALASKA	2017	

Plotted 8/9/2017 9:32 AM by Peggy Leslie F:\PROJECTS\250 NORTHWIND ARCHITECTS\72 ASOB 8TH FLOOR\DRAWINGS\WORKING\E1.3-8.DWG

PANEL 8LB			SIZE	VOLTS/PHASE				MAIN		LOCATION		MOUNT
			225 AMPS	208Y/120V, 3 PH				LUGS ONLY		ELECTRICAL ROOM		SURFACE
C K T NO	DESCRIPTION	BREAKER AMP/ POLE	KVA					BREAKER AMP/ POLE	DESCRIPTION	C K T NO		
			CKT	AØ	BØ	CØ	CKT					
1	OUTER PERIMETER *	LTG	20/1	0.0	0.0			0.0	20/1	SKYBRIDGE ENTRYWAY *	LTG	2
3	OUTER PERIMETER *		20/1	0.0		0.0		0.0	20/1	SKYBRIDGE ENTRYWAY *		4
5	OUTER PERIMETER *		20/1	0.0				0.0	20/1	MAIN ENTRY, OUTSIDE *		6
7	MAIN ENTRY WALKWAY *		20/1	0.0	0.0			0.0	20/1	MAIN ENTRY, OUTSIDE *		8
9	MAIN ENTRY WALKWAY, INSIDE *		20/1	0.0		0.0		0.0	20/1	MAIN ENTRY, OUTSIDE *	▼	10
11	ELEVATOR LOBBY *		20/1	0.0			0.0	0.0	20/1	PANEL ROOM *	⊙	12
13	ELEVATOR LOBBY *	▼	20/1	0.0	0.0			0.0	20/1	DRINKING FOUNTAIN *		14
15	MAIN ENTRY *	⊙	30/1	0.0		0.0		0.0	20/1	PHOTOGRAPHS AREA	⊙	16
17	RECEPTACLES *		20/1	0.0			0.0	0.0	20/1	RECEPTACLES		18
19	CUBICLE *		20/3	0.0	0.0			0.0	20/1	RECEPTACLES *		20
21	----		--	0.0		0.0		0.0	20/1	PLUGMOLD, SOUND ROOM *		22
23	----		--	0.0			0.0	0.0	20/1	PLUGMOLD, SOUND ROOM *		24
25	PLUGMOLD		30/1	0.0	0.0			0.0	20/1	RECEPTACLES		26
27	PLUGMOLD		20/1	0.0		0.0		0.0	20/1	RECEPTACLES		28
29	LIBRARY ADMIN. & LIBRARY PLUGMOLD		20/1	0.0			0.0	0.0	20/1	MOBILE BOOKSHELVES		30
31	TOILET *	▼	20/1	0.0	0.0			0.0	20/1	ELEVATOR LOBBY *	▼	32
33	HEATER MOTORS, SKYBRIDGE *		20/1	0.0		0.0		0.0	30/1	MOBILE BOOKSHELVES		34
35	LIBRARY ADMIN. RECEPTION		20/1	0.0			0.0	0.0	30/1	MOBILE BOOKSHELVES		36
37	VENDING MACHINE *		30/1	0.0	0.0			0.0	20/1	LIBRARY RECEPTACLES, COLUMNS	⊙	38
39	VENDING MACHINE *		30/1	0.0		0.0		0.0	30/2	XEROX, SOUTH END *		40
41	VENDING MACHINE *		30/1	0.0			0.0	0.0	--	----		42
BALANCED CONNECTED LOAD: 0.0 KVA / 0.0 AMPS					0.0	0.0	0.0					
MAXIMUM PHASE LOAD: 0.0 KVA / 0.0 AMPS												

* RELOCATE TO NEW PANEL 8LB.

PANEL 8LA		SIZE	VOLTS/PHASE				MAIN		LOCATION		MOUNT
		225 AMPS	208Y/120V, 3 PH				LUGS ONLY		ELECTRICAL ROOM		SURFACE
C K T NO	DESCRIPTION	BREAKER AMP/ POLE	KVA				BREAKER AMP/ POLE		DESCRIPTION		C K T NO
			CKT	AØ	BØ	CØ					
1	OUTSIDE PERIMETER	LTG	20/1	0.0	0.0		0.0	20/1	PATIO ENTRYWAY	LTG	2
3	OUTSIDE PERIMETER		20/1	0.0		0.0	0.0	20/1	PATIO ENTRYWAY		4
5	OUTSIDE PERIMETER		20/1	0.0		0.0	0.0	20/1	PATIO ENTRYWAY		6
7	WEST WALKWAY		20/1	0.0	0.0		0.0	20/1	OFFICE		8
9	WEST WALKWAY & SNACK BAR WALKWAY		20/1	0.0		0.0	0.0	20/1	(2 EA) SMOKE EATERS: 7TH FLOOR		10
11	WEST WALKWAY & ELEVATOR LOBBY		20/1	0.0		0.0	0.0	20/1	OFFICE		12
13	WEST ELEVATOR LOBBY		20/1	0.0	0.0		0.0	20/1	7TH FLOOR DGS COPIER		14
15	PANEL ROOM OUTSIDE WALL		20/1	0.0		0.0	0.0	20/1	OFFICE		16
17	PANEL ROOM		20/1	0.0		0.0	0.0	20/1	PLUGMOLD, LIBRARY		18
19	COLUMN CENTER LIBRARY		20/1	0.0	0.0		0.0	20/1	PLUGMOLD		20
21	OFFICE & MAIN LIBRARY ENTRANCE		20/1	0.0		0.0	0.0	20/1	OFFICE		22
23	OFFICE		20/1	0.0		0.0	0.0	20/1	NEW COPIER, LIBRARY		24
25	PLUGMOLD, AIR SHAFT		20/1	0.0	0.0		0.0	20/1	LIBRARY		26
27	PLUGMOLD, AIR SHAFT		20/1	0.0		0.0	0.0	20/1	PLUGMOLD, LIBRARY		28
29	PLUGMOLD, AIR SHAFT		20/1	0.0		0.0	0.0	20/1	COMPUTER RECEPTACLES IN PARTITIONS		30
31	XEROX		30/2	0.0	0.0		0.0	30/2	XEROX		32
33	----		--	0.0		0.0	0.0	--	----		34
35	208V DUPLEX ABOVE PANEL		30/2	0.0		0.0	0.0	20/1	ESPRESSO MACHINE		36
37	----		--	0.0	0.0		0.0	20/1	ESPRESSO MACHINE		38
39	208V DUPLEX ABOVE PANEL		50/2	0.0		0.0	0.0	20/1	FLOOR IN LIBRARY		40
41	----		--	0.0		0.0	0.0	20/1	IN SOME BOX AT CAT NO. 40		42
TOTAL CONNECTED LOAD (SECTION 1): 0.0 KVA / 0.0 AMPS				0.0	0.0	0.0					

PANEL 8LA			SIZE		VOLTS/PHASE			MAIN		LOCATION		MOUNT	
			225 AMPS		208Y/120V, 3 PH			LUGS ONLY		ELECTRICAL ROOM		SURFACE	
C K T NO	DESCRIPTION	BREAKER AMP/ POLE	KVA						BREAKER AMP/ POLE	DESCRIPTION	C K T NO		
			CKT	AØ	BØ	CØ	CKT						
43	GFCI & 1/2 208V CORD	30/2	0.0	0.0				0.0	30/2	GFCI & 1/2 208V CORD	44		
45	----	--	0.0		0.0			0.0	--	----	46		
47	AUTO TELLER MACHINE (ATM)	20/1	0.0				0.0	0.0	20/1	WEST DRINKING FOUNTAIN & ENTRANCE HEATER	48		
49	PLUGMOLD, BOOK REPAIR AREA	20/1	0.0	0.0				0.0	30/1	JANITORS ROOM	50		
51	PLUGMOLD, BOOK REPAIR AREA	20/1	0.0		0.0			0.0	20/1	MENS & WOMENS	52		
53	PLUGMOLD, BOOK REPAIR AREA	20/1	0.0				0.0	0.0	20/1	ON ORGAN CHAMBER	54		
55	PLUGMOLD, BOOK REPAIR AREA	20/1	0.0	0.0				0.0	20/1	ORGAN CHAMBER	56		
57	PLUGMOLD, BOOK REPAIR AREA	20/1	0.0		0.0			0.0	20/1	ORGAN CHAMBER	58		
59	PLUGMOLD, BOOK REPAIR AREA	20/1	0.0				0.0	0.0	60/2	PANEL 8LA-2	60		
61	XEROX, LIBRARY	30/1	0.0	0.0				0.0	--	----	62		
63	XEROX, LIBRARY	30/2	0.0		0.0			0.0	30/1	XEROX, HALL	64		
65	----	--	0.0				0.0	0.0	30/1	XEROX, HALL	66		
67	LIBRARY OFFICE	30/1	0.0	0.0				0.0	20/1	WINDOW WASHING	68		
69	OFFICE	20/1	0.0		0.0			0.0	20/1	UNKNOWN	70		
71	OFFICE	20/1	0.0				0.0	0.0	20/1	UNKNOWN	72		
73	OFFICE, SPARE	20/1	0.0	0.0				0.0	20/3	ORGAN BLOWER	74		
75	OFFICE, LIBRARY	20/1	0.0		0.0			0.0	--	----	76		
77	OFFICE, LIBRARY, SPARE	20/1	0.0				0.0	0.0	--	----	78		
79	COMPUTER FURNITURE, LIBRARY	20/1	0.0	0.0				0.0	100/3	PANEL K1	80		
81	COMPUTER FURNITURE, SPARE	20/1	0.0		0.0			0.0	--	----	82		
83	SPACE		0.0				0.0	0.0	--	----	84		
BALANCED CONNECTED LOAD (SECTION 2): 0.0 KVA / 0.0 AMPS				0.0	0.0	0.0							
BALANCED CONNECTED LOAD: 0.0 KVA / 0.0 AMPS													
MAXIMUM PHASE LOAD: 0.0 KVA / 0.0 AMPS													

* HANDLE TIES.

SHEET NOTE: CONFIRM REMOVED CIRCUITS ONLY FEED LOADS IN PROJECT AREA.

AUGUST 2017

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E1.3-8

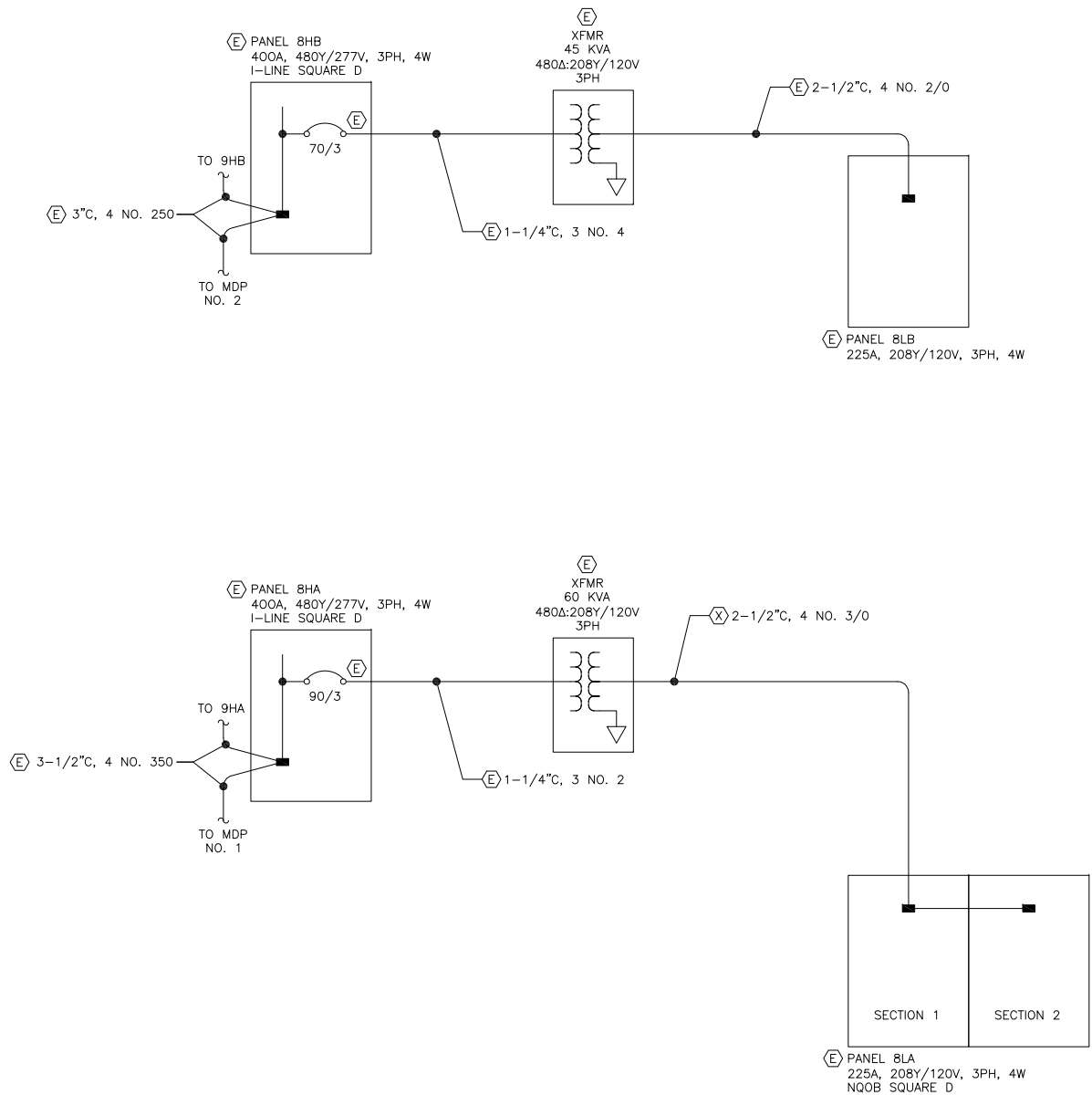
PANEL SCHEDULES

PROJECT DESIGNATION NUMBER

2018-0222-3725

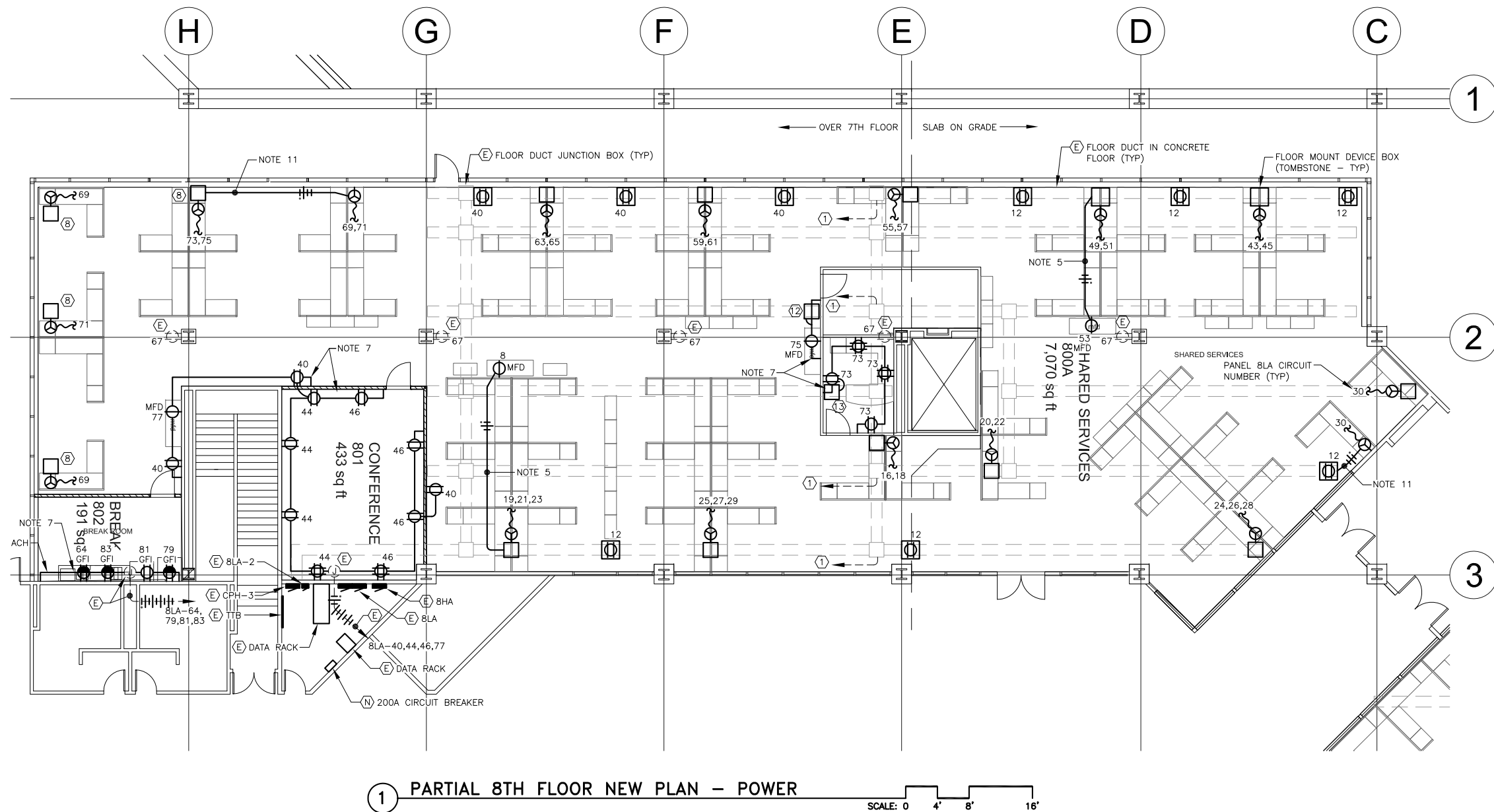
STATE	YEAR
ALASKA	2017

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AUGUST 2017		
ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION
STATE OF ALASKA DEPARTMENT OF ADMINISTRATION		ALASKA STATE OFFICE BUILDING 7TH & 8TH FLOOR RENOVATIONS
Division of General Services Facilities Section PO Box 11210 Juneau, AK 99811-0210		
NorthWind Architects, LLC www.NorthWindArch.com 126 Seward Street Juneau, AK, 99801 Haight & Associates, Inc. 526 Main Street Juneau, AK, 99801		
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E1.4-8		
SINGLE LINE DIAGRAMS		
PROJECT DESIGNATION NUMBER		
2018-0222-3725		
STATE	YEAR	
ALASKA	2017	

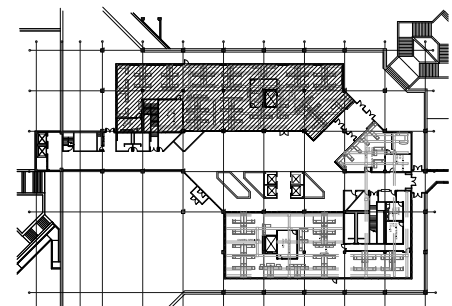
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1 PARTIAL 8TH FLOOR NEW PLAN - POWER

NOTES:

- EXISTING 1-1/4" HOME RUN TO PANEL 8LA. UTILIZE IF POSSIBLE, (33 EA) NO. 12 CONDUCTORS ALLOWED IN 1-1/4" RMC.
- UTILIZE EXISTING 2" PRESETS IN UNDERFLOOR DUCTS TO MOUNT NEW DEVICE BOXES.
- ROUTE NEW CIRCUITS THROUGH EXISTING UNDER FLOOR DUCTS AND CONDUITS TO PANEL 8LA.
- UTILIZE NEW FLOOR MOUNT DEVICE BOXES ABOVE DUCTS.
- ROUTE MFD CIRCUITS THROUGH FURNITURE RACEWAYS.
- PROVIDE HEAVY-DUTY COVER PLATES FOR UNUSED FLOOR DUCT PENETRATIONS.
- SURFACE RACEWAY: BASIS OF DESIGN - WIREMOLD G4000.
- UTILIZE EXISTING UNDER FLOOR CONDUITS TO CIRCUIT NEW FURNITURE.
- PROVIDE COMMON NEUTRALS FOR MULTI-PHASE CIRCUITS WITH HANDLE-TIES.
- CLEAN EXISTING DUCTS AND CONDUITS PRIOR TO INSTALLING NEW CONDUCTORS.
- 1/2" OR AL SURFACE RACEWAY ON FLOOR TIGHT TO THE WINDOW MULLION.
- PROVIDE SURFACE RACEWAYS FROM 2" PRESETS ABOVE UNDER FLOOR DUCTS TO WALL MOUNT SURFACE RACEWAYS.
- COORDINATE WITH ARCHITECT PRIOR TO PENETRATING EXISTING WALLS.



KEY PLAN

AUGUST 2017		
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STATE OF ALASKA
DEPARTMENT OF ADMINISTRATION
Division of General Services
Facilities Section
PO Box 11210
Juneau, AK 99811-0210
ALASKA STATE OFFICE BUILDING
7TH & 8TH FLOOR RENOVATIONS



NorthWind Architects, LLC
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1" ACTUAL
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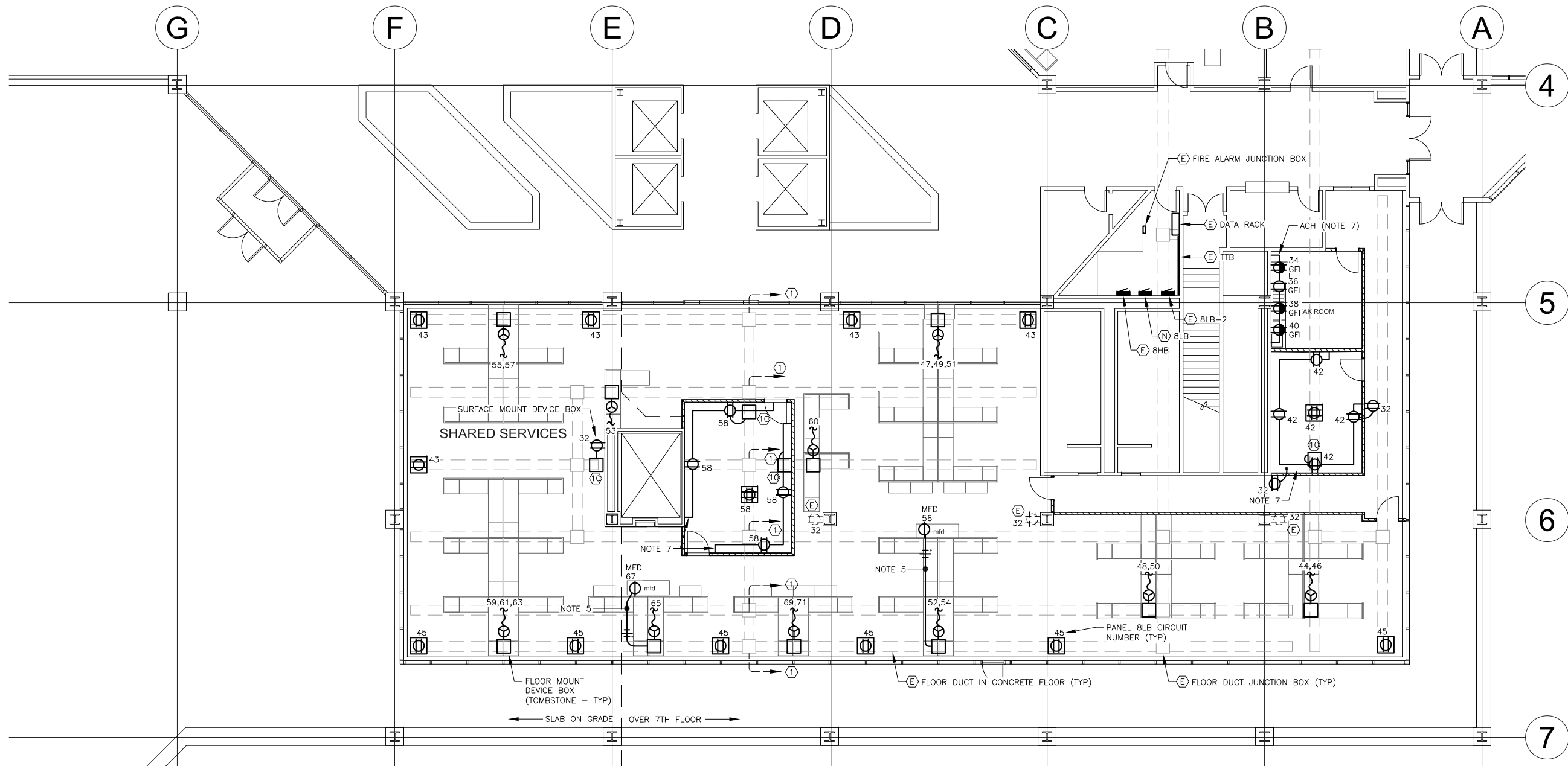
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PARTIAL 8TH FLOOR
POWER PLAN

PROJECT DESIGNATION NUMBER

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STATE	YEAR
ALASKA	2017

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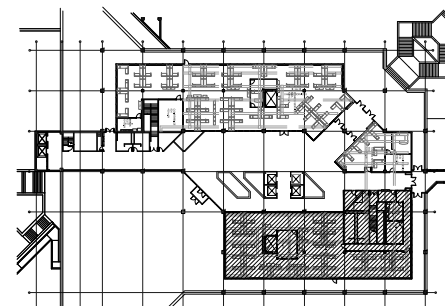


1 PARTIAL 8TH FLOOR NEW PLAN - POWER

SCALE: 0 4' 8' 16'

1. NOTES:

- EXISTING 1-1/4" HOME RUN TO PANEL 8LA. UTILIZE IF POSSIBLE, (33 EA) NO. 12 CONDUCTORS ALLOWED IN 1-1/4" RMC.
- UTILIZE EXISTING 2" PRESETS IN UNDERFLOOR DUCTS TO MOUNT NEW DEVICE BOXES.
- ROUTE NEW CIRCUITS THROUGH EXISTING UNDER FLOOR DUCTS AND CONDUITS TO PANEL 8LB.
- UTILIZE NEW FLOOR MOUNT DEVICE BOXES ABOVE DUCTS.
- ROUTE MFD CIRCUITS THROUGH FURNITURE RACEWAYS.
- PROVIDE HEAVY-DUTY COVER PLATES FOR UNUSED FLOOR DUCT PENETRATIONS.
- SURFACE RACEWAY: BASIS OF DESIGN - WIREMOLD G4000.
- PROVIDE COMMON NEUTRALS FOR MULTI-PHASE CIRCUITS WITH HANDLE-TIES.
- CLEAN EXISTING DUCTS AND CONDUITS PRIOR TO INSTALLING NEW CONDUCTORS.
- PROVIDE SURFACE RACEWAYS FROM 2" PRESETS ABOVE UNDER FLOOR DUCTS TO WALL MOUNT SURFACE RACEWAYS.



KEY PLAN

AUGUST 2017

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PARTIAL 8TH FLOOR
POWER PLAN

PROJECT DESIGNATION NUMBER

2018-0222-3725

STATE	YEAR
ALASKA	2017

PANEL 8LB			SIZE		VOLTS/PHASE			MAIN		LOCATION		MOUNT	
C K T NO	DESCRIPTION	BREAKER AMP/ POLE	KVA					BREAKER AMP/ POLE	DESCRIPTION	C K T NO			
			225 AMPS	208Y/120V, 3 PH							150 AMPS	ELECTRICAL ROOM	SURFACE
			CKT	AØ	BØ	CØ	CKT						
1	OUTER PERIMETER	LTG	20/1	0.3	0.8			0.5	20/1	SKYBRIDGE ENTRYWAY	LTG	2	
3	OUTER PERIMETER		20/1	0.3		0.8		0.5	20/1	SKYBRIDGE ENTRYWAY		4	
5	OUTER PERIMETER		20/1	0.2			0.5	0.3	20/1	MAIN ENTRY, OUTSIDE		6	
7	MAIN ENTRY WALKWAY		20/1	0.4	0.7			0.3	20/1	MAIN ENTRY, OUTSIDE		8	
9	MAIN ENTRY WALKWAY, INSIDE		20/1	0.4		0.7		0.3	20/1	MAIN ENTRY, OUTSIDE		10	
11	ELEVATOR LOBBY		20/1	0.8			1.0	0.2	20/1	PANEL ROOM		12	
13	ELEVATOR LOBBY		20/1	0.7	1.8			1.1	20/1	DRINKING FOUNTAIN		14	
15	MAIN ENTRY		30/1	0.7		1.6		0.9	20/1	OUTLETS		16	
17	OUTLETS		20/1	0.4			0.6	0.2	20/1	PLUGMOLD, SOUND ROOM		18	
19	CUBICLE		20/3	0.5	0.7			0.2	20/1	PLUGMOLD, SOUND ROOM		20	
21	----		--	0.5		0.9		0.4	20/1	ELEVATOR LOBBY		22	
23	----		--	0.5			1.6	1.1	30/2	XEROX, SOUTH END		24	
25	TOILET		20/1	0.2	1.3			1.1	--	----		26	
27	HEATER MOTORS, SKYBRIDGE		20/1	0.9		0.9		0.0		SPACE		28	
29	VENDING MACHINE		30/1	0.8			0.8	0.0		SPACE		30	
31	VENDING MACHINE		30/1	0.8	1.9			1.1	20/1	SHARED SERVICES COLUMN AND HALLWAY		32	
33	VENDING MACHINE		30/1	0.8		2.0		1.2	20/1	SHARED SERVICES BREAK ROOM REFRIGERATOR		34	
35	SPACE			0.0			1.5	1.5	20/1	SHARED SERVICES BREAK ROOM DISHWASHER		36	
37				0.0	0.2			0.2	20/1	SHARED SERVICES BREAK ROOM		38	
39				0.0		1.2		1.2	20/1	SHARED SERVICES BREAK ROOM MICROWAVE		40	
41				0.0			1.1	1.1	20/1	SHARED SERVICES SMALL CONFERENCE		42	
43	SHARED SERVICES 12 FLOOR		20/1	0.9	1.7			0.8	20/1	SHARED SERVICES FURNITURE		44	
45	SHARED SERVICES 12 FLOOR		20/1	1.1		1.9		0.8	20/1	SHARED SERVICES FURNITURE		46	
47	SHARED SERVICES FURNITURE		20/1	0.8			1.6	0.8	20/1	SHARED SERVICES FURNITURE		48	
49	SHARED SERVICES FURNITURE		20/1	0.8	1.6			0.8	20/1	SHARED SERVICES FURNITURE		50	
51	SHARED SERVICES FURNITURE		20/1	0.8		1.6		0.8	20/1	SHARED SERVICES FURNITURE		52	
53	SHARED SERVICES FURNITURE		20/1	0.4			1.2	0.8	20/1	SHARED SERVICES FURNITURE		54	
55	SHARED SERVICES FURNITURE		20/1	0.8	2.0			1.2	20/1	SHARED SERVICES MFD		56	
57	SHARED SERVICES FURNITURE		20/1	0.8		1.9		1.1	20/1	SHARED SERVICES LARGE CONFERENCE		58	
59	SHARED SERVICES FURNITURE		20/1	0.8			1.6	0.8	20/1	SHARED SERVICES FURNITURE		60	
61	SHARED SERVICES FURNITURE		20/1	0.8	0.8			0.0		SPACE		62	
63	SHARED SERVICES FURNITURE		20/1	0.8		0.8		0.0				64	
65	SHARED SERVICES FURNITURE		20/1	0.8			0.8	0.0				66	
67	SHARED SERVICES MFD		20/1	1.2	1.2			0.0				68	
69	SHARED SERVICES FURNITURE		20/1	0.8		0.8		0.0				70	
71	SHARED SERVICES FURNITURE		20/1	0.8			0.8	0.0				72	
73	SPACE			0.0	0.0			0.0				74	
75				0.0		0.0		0.0				76	
77				0.0			0.0	0.0				78	
79				0.0	0.0			0.0				80	
81				0.0		0.0		0.0				82	
83				0.0			0.0	0.0				84	
BALANCED CONNECTED LOAD: 42.9 KVA / 119.2 AMPS					14.7	15.1	13.1	CALCULATED BALANCED DEMAND LOAD: 36.8 KVA / 102.0 AMPS					
MAXIMUM PHASE LOAD: 15.1 KVA / 125.8 AMPS													
* HANDLE TIES													

PANEL 8LA (E) (SECTION 2)			SIZE		VOLTS/PHASE			MAIN		LOCATION		MOUNT	
			225 AMPS		208Y/120V, 3 PH			LUGS ONLY		ELECTRICAL ROOM		SURFACE	
C K T NO	DESCRIPTION		BREAKER AMP/ POLE	KVA				BREAKER AMP/ POLE	DESCRIPTION		C K T NO		
				CKT	AØ	BØ	CØ					CKT	
1	OUTSIDE PERIMETER	LTG	20/1	0.3	0.6			0.3	20/1	PATIO ENTRYWAY	LTG	2	
3	OUTSIDE PERIMETER		20/1	0.3		0.6		0.3	20/1	PATIO ENTRYWAY		4	
5	OUTSIDE PERIMETER		20/1	0.2			0.6	0.4	20/1	PATIO ENTRYWAY		6	
7	WEST WALKWAY		20/1	0.5	1.7			1.2	20/1	SHARED SERVICES MFD		8	
9	WEST WALKWAY & SNACK BAR WALKWAY		20/1	0.5		1.7		1.2	20/1	COPIER POWER POLE		10	
11	WEST WALKWAY & ELEVATOR LOBBY		20/1	0.7			1.8	1.1	20/1	SHARED SERVICES FLOOR		12	
13	WEST ELEVATOR LOBBY		20/1	0.7	1.3			0.6	20/1	7TH FLOOR DGS COPIER POWER POLE		14	
15	PANEL ROOM OUTSIDE WALL		20/1	0.2		1.0		0.8	20/1	SHARED SERVICES FURNITURE		16	
17	PANEL ROOM		20/1	0.4			1.2	0.8	20/1	SHARED SERVICES FURNITURE		18	
19	SHARED SERVICES FURNITURE		20/1	0.8	1.6			0.8	20/1	SHARED SERVICES FURNITURE		20	
21	OFFICE & MAIN LIBRARY ENTRANCE		20/1	0.8		1.6		0.8	20/1	SHARED SERVICES FURNITURE		22	
23	SHARED SERVICES FURNITURE		20/1	0.8			1.6	0.8	20/1	SHARED SERVICES FURNITURE		24	
25	SHARED SERVICES FURNITURE		20/1	0.8	1.6			0.8	20/1	SHARED SERVICES FURNITURE		26	
27	SHARED SERVICES FURNITURE		20/1	0.8		1.6		0.8	20/1	SHARED SERVICES FURNITURE		28	
29	SHARED SERVICES FURNITURE		20/1	0.8			1.6	0.8	20/1	SHARED SERVICES FURNITURE		30	
31	SPACE			0.0	0.0			0.0		SPACE		32	
33	SPACE			0.0		0.0		0.0		SPACE		34	
35	208V DUPLEX ABOVE PANEL		30/2	0.2			0.2	0.0	20/1	SPARE		36	
37	----		--	0.2	0.2			0.0	20/1	SPARE		38	
39	208V DUPLEX ABOVE PANEL		50/2	0.2		1.3		1.1	20/1	SHARED SERVICES FLOOR		40	
41	----		--	0.2			0.2	0.0	20/1	IN SOME BOX AT CAT NO. 40		42	
TOTAL CONNECTED LOAD (SECTION 2): 22.0 KVA / 58.3 AMPS					7.0	7.8	7.2						

* HANDLE TIES.

PANEL 8LA  (SECTION 1)			SIZE		VOLTS/PHASE			MAIN		LOCATION		MOUNT	
C K T NO	DESCRIPTION	BREAKER AMP/ POLE	KVA					BREAKER AMP/ POLE	DESCRIPTION	C K T NO			
			225 AMPS	208Y/120V, 3 PH									
			CKT	AØ	BØ	CØ	CKT						
43	SHARED SERVICES FURNITURE		20/1	0.8	1.7			0.9	20/1	SHARED SERVICES CONFERENCE		44	
45	SHARED SERVICES FURNITURE		20/1	0.8		1.7		0.9	20/1	SHARED SERVICES CONFERENCE		46	
47	AUTO TELLER MACHINE (ATM)		20/1	0.3			1.2	0.9	20/1	WEST DRINKING FOUNTAIN & ENTRANCE HEATER		48	
49	SHARED SERVICES FURNITURE		20/1	0.8	1.0			0.2	30/1	JANITORS ROOM		50	
51	SHARED SERVICES FURNITURE		20/1	0.8		1.2		0.4	20/1	MENS & WOMENS		52	
53	SHARED SERVICES MFD		20/1	1.2			1.4	0.2	20/1	ON ORGAN CHAMBER		54	
55	SHARED SERVICES FURNITURE		20/1	0.8	1.2			0.4	20/1	ORGAN CHAMBER	LTG	56	
57	SHARED SERVICES FURNITURE		20/1	0.8		1.0		0.2	20/1	ORGAN CHAMBER		58	
59	SHARED SERVICES FURNITURE		20/1	0.8			1.9	1.1	60/2	PANEL 8LA-2		60	
61	SHARED SERVICES FURNITURE		20/1	0.8	1.9			1.1	--	----		62	
63	SHARED SERVICES FURNITURE		20/1	0.8		2.0		1.2	20/1	SHARED SERVICES BREAK ROOM MICROWAVE		64	
65	SHARED SERVICES FURNITURE		20/1	0.8			0.8	0.0		SPACE		66	
67	SHARED SERVICES COLUMN		20/1	0.7	1.1			0.4	20/1	WINDOW WASHING		68	
69	SHARED SERVICES FURNITURE		20/1	0.8		1.0		0.2	20/1	UNKNOWN		70	
71	SHARED SERVICES FURNITURE		20/1	0.8			1.0	0.2	20/1	UNKNOWN		72	
73	SHARED SERVICES OFFICE, STORAGE		20/1	1.1	2.4			1.3	20/3	ORGAN BLOWER		74	
75	SHARED SERVICES MFD		20/1	1.2		2.5		1.3	--	----		76	
77	SHARED SERVICES MFD		20/1	1.2			2.5	1.3	--	----		78	
79	SHARED SERVICES BREAK ROOM REFRIGERATOR		20/1	1.2	13.2			12.0	100/3	PANEL K1		80	
81	SHARED SERVICES BREAK ROOM DISHWASHER		20/1	1.5		13.5		12.0	--	----		82	
83	SHARED SERVICES BREAK ROOM		20/1	0.4			12.4	12.0	--	----		84	
BALANCED CONNECTED LOAD (SECTION 1): 66.6 KVA / 187.5 AMPS				22.5	22.9	21.2							
BALANCED CONNECTED LOAD: 88.6 KVA / 245.9 AMPS				29.5	30.7	28.4							
MAXIMUM PHASE LOAD: 30.7 KVA / 255.8 AMPS								CALCULATED BALANCED DEMAND LOAD: 57.0 KVA / 158.2 AMPS					

* HANDLE TIES.

AUGUST 2017

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Facilities Section
PO Box 11210
Juneau, AK 99811-0210

ALASKA STATE OFFICE BUILDING
7TH & 8TH FLOOR RENOVATIONS



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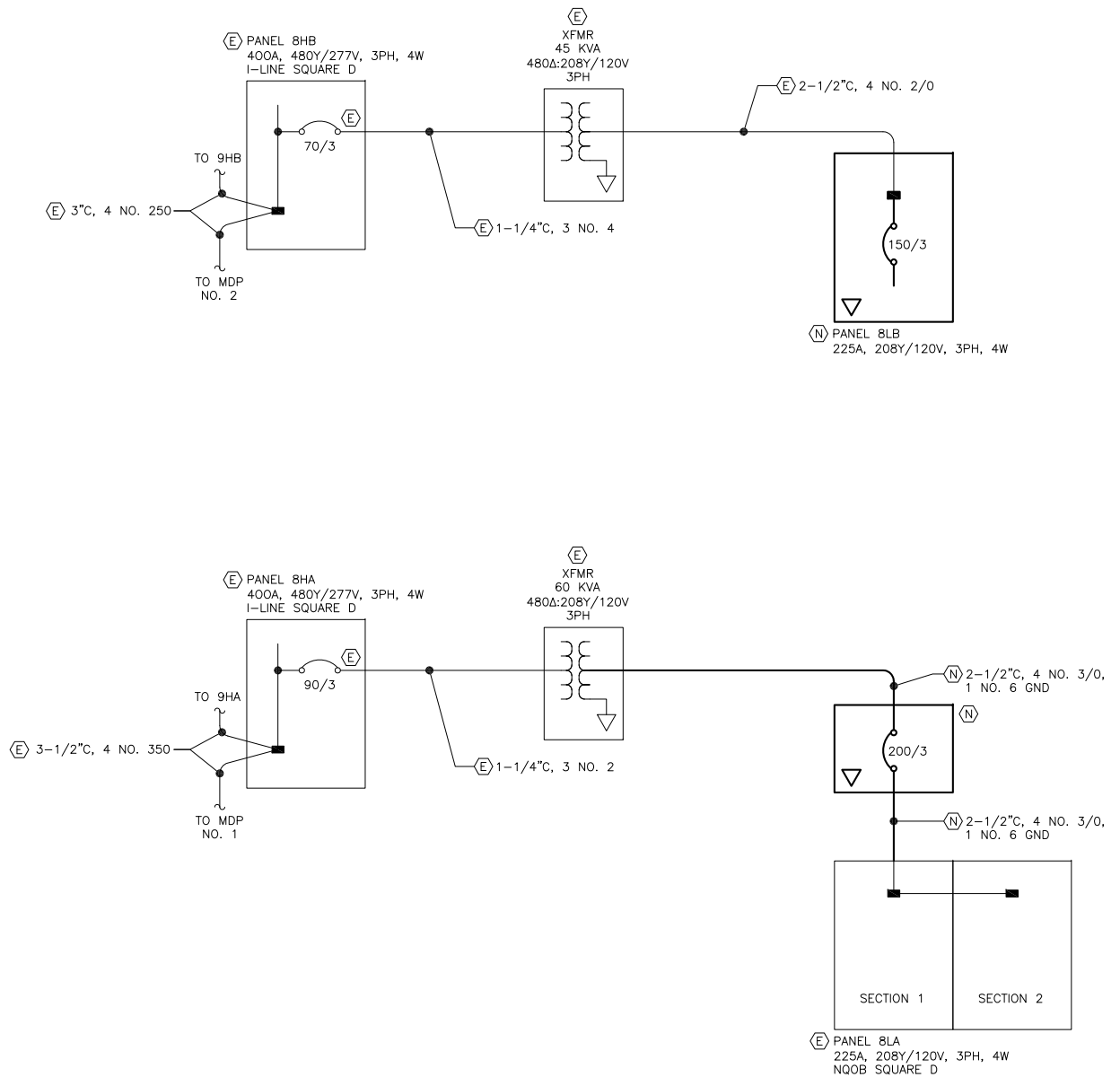
E2.3-8
PANEL SCHEDULES

PROJECT DESIGNATION NUMBER
2018-0222-3725

STATE
ALASKA

YEAR
2017

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1 SINGLE LINE DIAGRAM – NEW PARTIAL POWER DISTRIBUTION SYSTEM NO SCALE

AUGUST 2017

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← 1" ACTUAL →

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E2.4-8

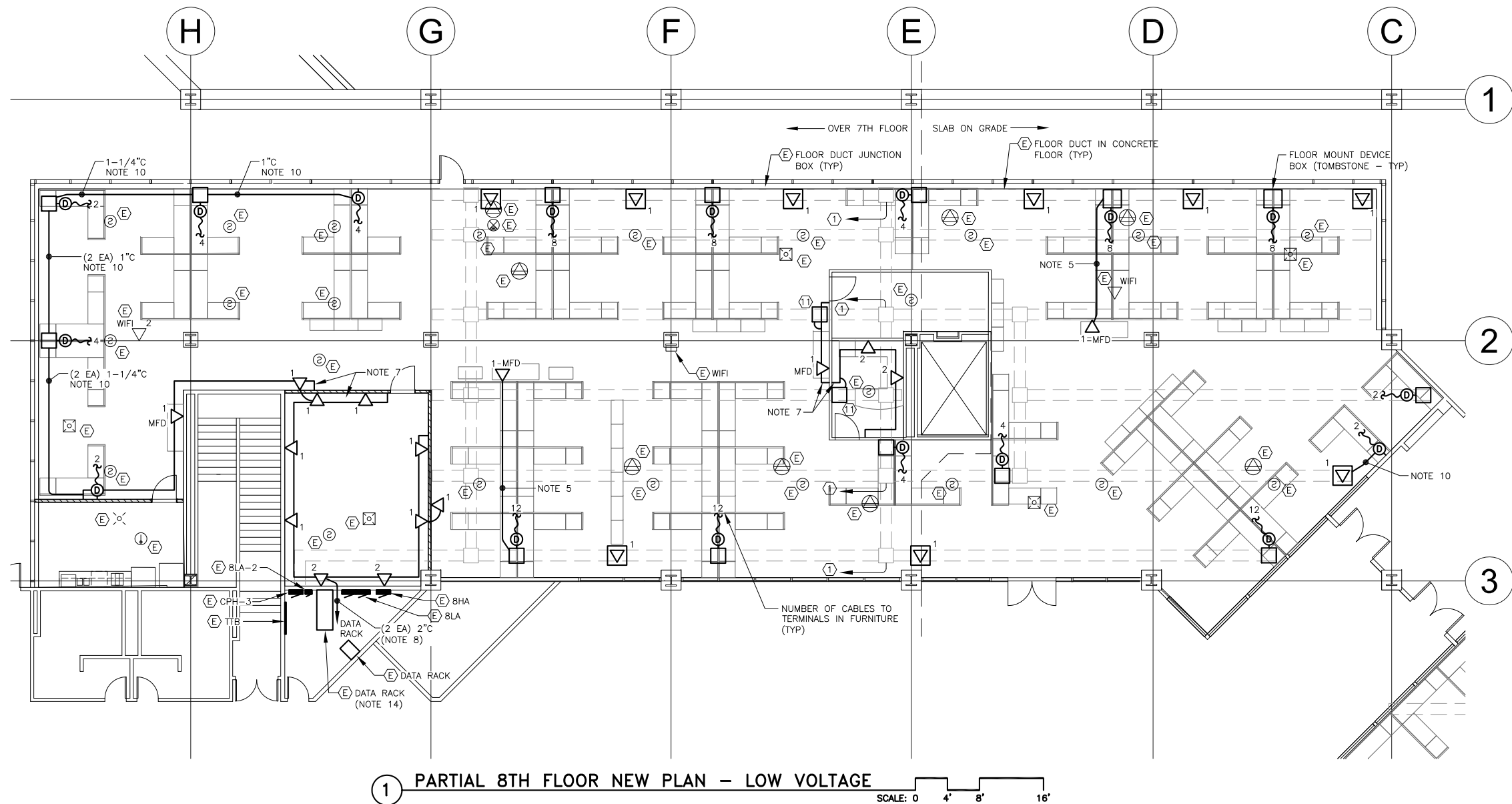
SINGLE LINE
DIAGRAMS

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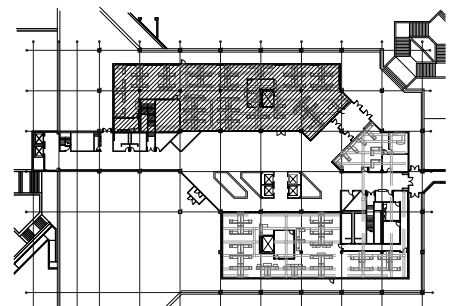
STATE	YEAR
ALASKA	2017

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NOTES:

- EXISTING 1-1/4" HOME RUN TO TTb. UTILIZE IF POSSIBLE. (14 EA) DATA CABLES ALLOWED IN 1-1/4" RMC.
- UTILIZE EXISTING 2" PRESETS IN UNDERFLOOR DUCTS TO MOUNT NEW DEVICE BOXES.
- ROUTE NEW CABLES THROUGH EXISTING UNDER FLOOR DUCTS AND CONDUITS TO PATCH PANELS IN DATA RACK.
- UTILIZE NEW FLOOR MOUNT DEVICE BOXES ABOVE DUCTS.
- ROUTE MFD CABLES THROUGH FURNITURE RACEWAYS.
- PROVIDE HEAVY-DUTY COVER PLATES FOR UNUSED FLOOR DUCT PENETRATIONS.
- SURFACE RACEWAY: BASIS OF DESIGN - WIREMOLD G4000.
- COORDINATE WITH ABATEMENT TEAM PRIOR TO PENETRATING EXISTING WALLS.
- CLEAN EXISTING DUCTS AND CONDUITS PRIOR TO INSTALLING NEW CABLES.
- 1" C, UON OR AL SURFACE RACEWAY ON FLOOR TIGHT TO THE WINDOW MULLION.
- PROVIDE SURFACE RACEWAYS FROM 2" PRESETS ABOVE UNDER FLOOR DUCTS TO WALL MOUNT SURFACE RACEWAYS.
- PROVIDE (1 EA) 48-PORT PATCH PANEL IN EXISTING 19" DATA RACK.



KEY PLAN

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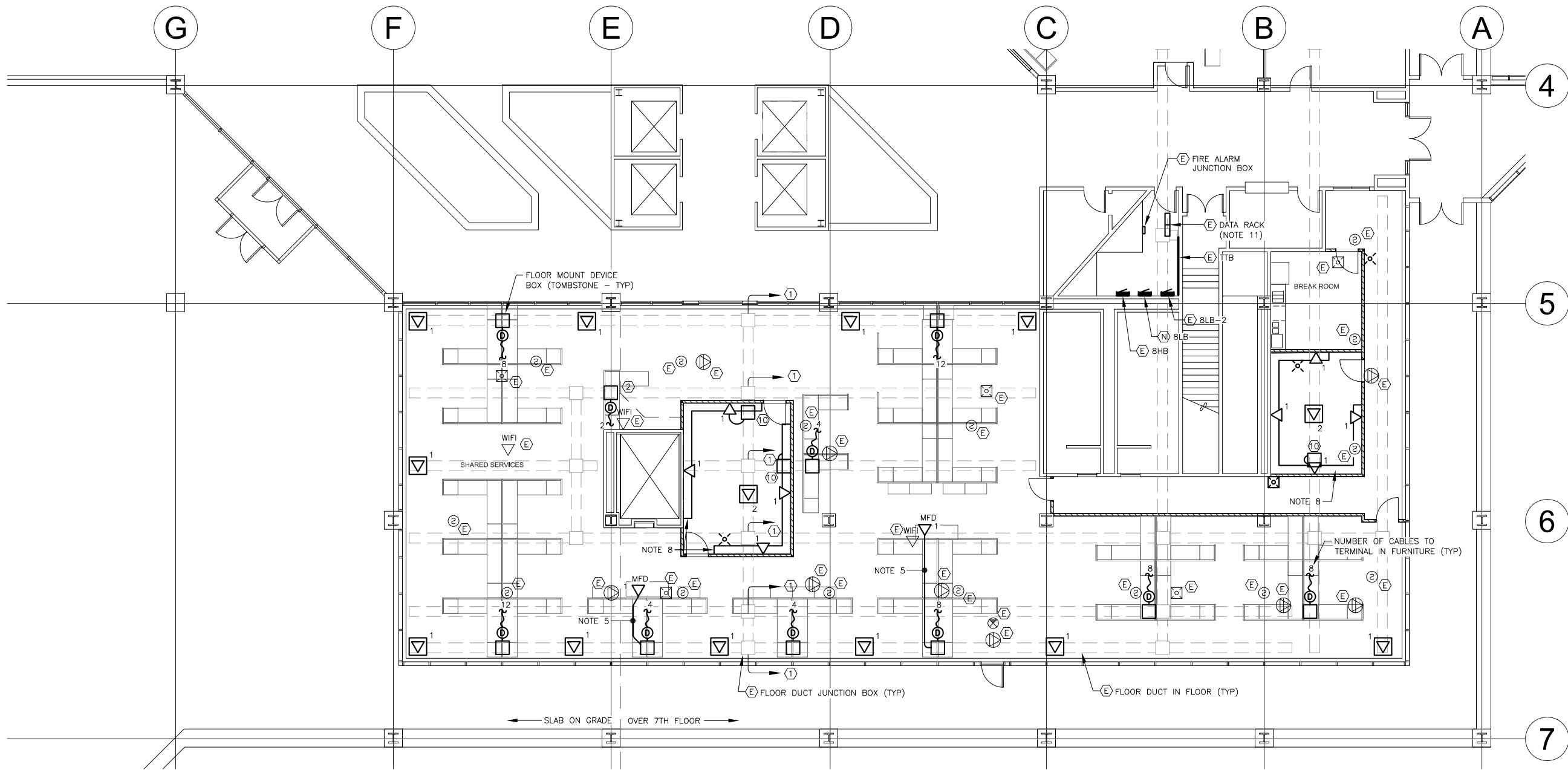
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E3.1-8
PARTIAL 8TH FLOOR
LOW VOLTAGE PLAN

PROJECT DESIGNATION NUMBER
2018-0222-3725

STATE	YEAR
ALASKA	2017

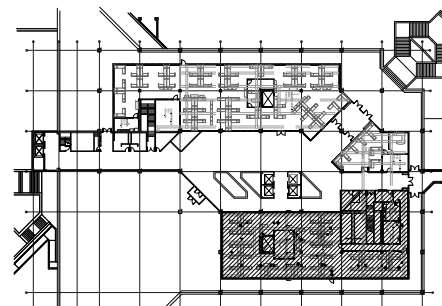
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1 PARTIAL 8TH FLOOR NEW PLAN - LOW VOLTAGE SCALE: 0 4' 8' 16'

NOTES:

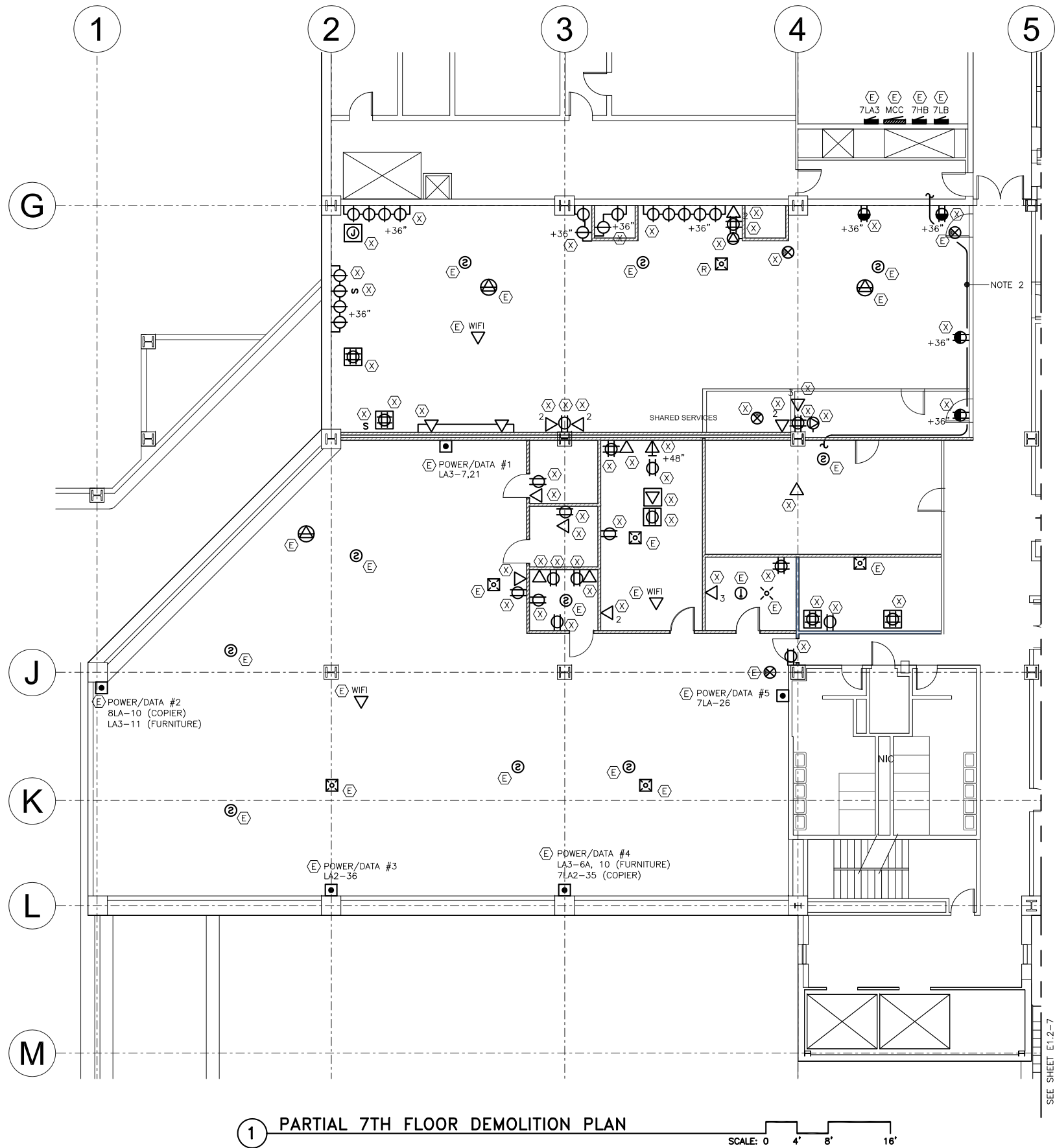
- EXISTING 1-1/4" C HOME RUN TO DATA RACK. UTILIZE IF POSSIBLE. (14 EA) DATA CABLES ALLOWED IN 1-1/4" RMC.
- CUT NEW HANDHOLE INTO EXISTING UNDER FLOOR DUCT.
- ROUTE NEW CABLES THROUGH EXISTING UNDER FLOOR DUCTS AND CONDUITS TO EXISTING PATCH PANELS IN DATA RACK.
- UTILIZE NEW FLOOR MOUNT DEVICE BOXES ABOVE DUCTS.
- ROUTE MFD CABLES THROUGH FURNITURE RACEWAYS.
- PROVIDE HEAVY-DUTY COVER PLATES FOR UNUSED FLOOR DUCT PENETRATIONS.
- ROUTE CABLES FOR NEW FIRE ALARM DEVICES THROUGH EXISTING UNDER FLOOR DUCT. CONNECT NEW DEVICES TO EXISTING FIRE ALARM SYSTEM. TEST AND CONFIRM FUNCTIONALITY OF NEW FIRE ALARM DEVICES WITH EXISTING FIRE ALARM SYSTEM.
- SURFACE RACEWAY: BASIS OF DESIGN - WIREMOLD G4000.
- CLEAN EXISTING DUCTS AND CONDUITS PRIOR TO INSTALLING NEW CABLES.
- PROVIDE SURFACE RACEWAYS FROM 2" PRESETS ABOVE UNDERFLOOR DUCTS TO WALL MOUNT SURFACE RACEWAYS.
- PROVIDE DATA HOOKS SPACED 30" APART (MAX) TO SUPPORT NEW DATA CABLES IN ELECTRICAL ROOM.



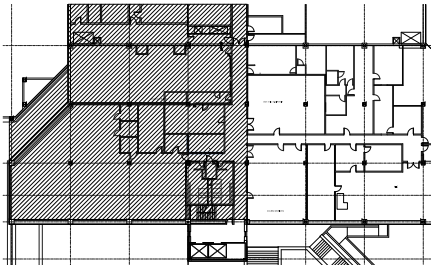
KEY PLAN

AUGUST 2017		
ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION
STATE OF ALASKA DEPARTMENT OF ADMINISTRATION Division of General Services Facilities Section PO Box 11210 Juneau, AK 99811-0210		
ALASKA STATE OFFICE BUILDING 7TH & 8TH FLOOR RENOVATIONS		
NorthWind Architects, LLC www.NorthWindArch.com 126 Seward Street Juneau, AK, 99801 Haight & Associates, Inc. 526 Main Street Juneau, AK, 99801		
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E3.2-8		
PARTIAL 8TH FLOOR LOW VOLTAGE PLAN		
PROJECT DESIGNATION NUMBER 2018-0222-3725		
STATE	YEAR	
ALASKA	2017	

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- NOTES:
- COORDINATE REMOVAL OF EXISTING EXIT SIGNS WITH ABATEMENT TEAM.
 - REMOVE AND REPLACE EXISTING WALL MOUNT CONDUIT. EXISTING CONDUCTORS SHALL BE SPLICED IN NEW JUNCTION BOXES PROVIDED AT BOTH ENDS OF REPLACED CONDUIT. NEW CONDUIT SHALL BE CONCEALED IN NEW WALLS.



KEY PLAN

STATE OF ALASKA
DEPARTMENT OF ADMINISTRATION
Division of General Services
Facilities Section
PO Box 11210
Juneau, AK 99811-0210
ALASKA STATE OFFICE BUILDING
7TH & 8TH FLOOR RENOVATIONS



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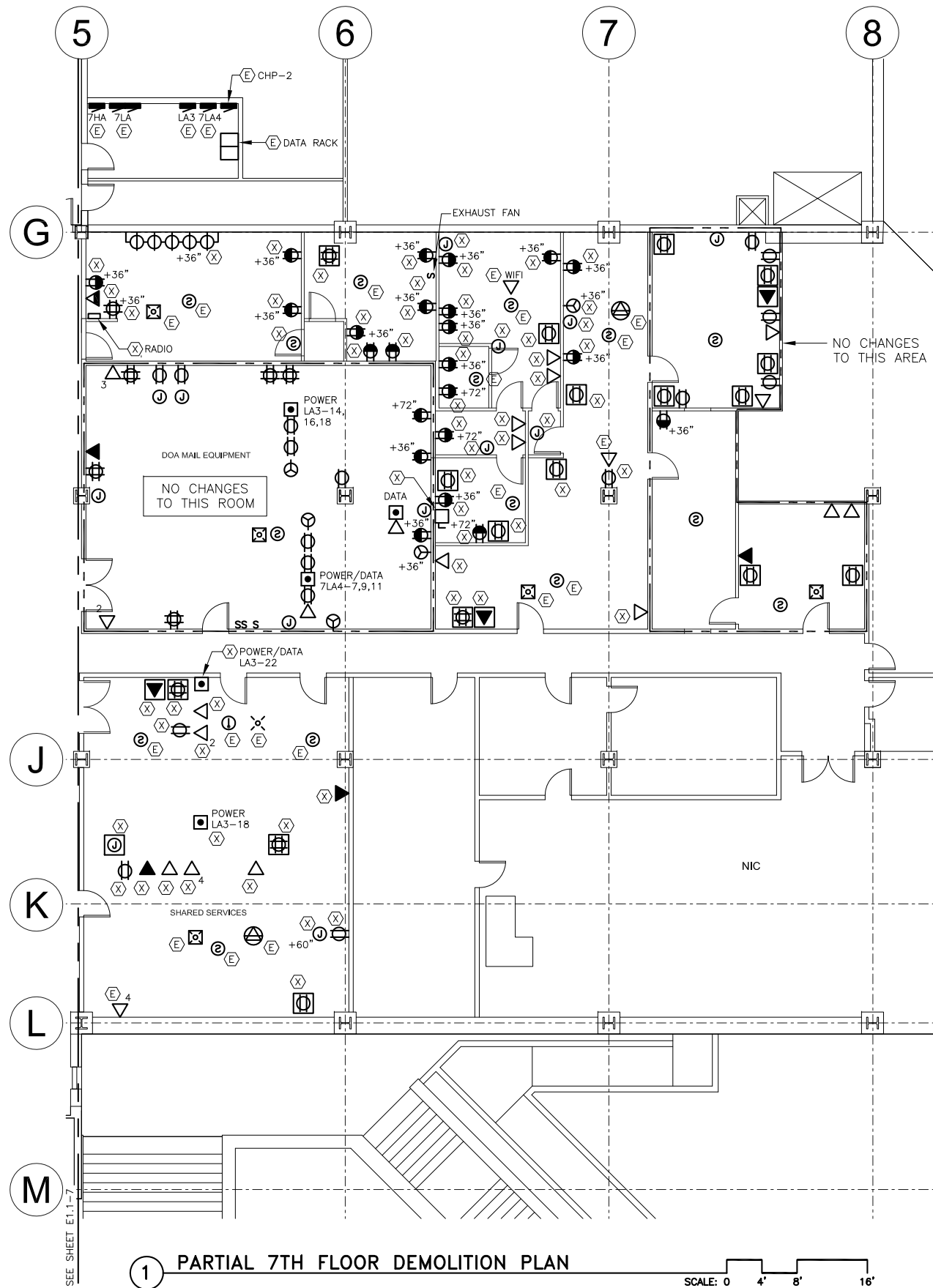
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E1.1-7
PARTIAL 7TH FLOOR
DEMOLITION PLAN

PROJECT DESIGNATION NUMBER
2018-0222-3725

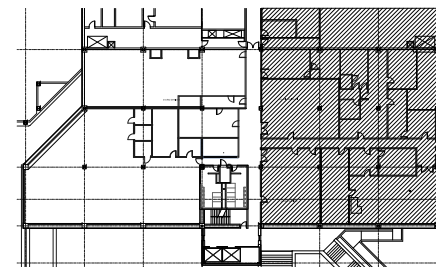
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1 PARTIAL 7TH FLOOR DEMOLITION PLAN

SCALE: 0 4' 8' 16'



KEY PLAN

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E1.2-7		
PARTIAL 7TH FLOOR DEMOLITION PLAN		
PROJECT DESIGNATION NUMBER		
2018-0222-3725		
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ALASKA	2017	

F:\PROJECTS\250 NORTHWIND ARCHITECTS\71 ASOB 7TH FLOOR\DRAWINGS\WORKING\E1.3-7.DWG Plotted 8/9/2017 11:46 AM by Peggy Leslie

PANEL 7LA3 E			SIZE	VOLTS/PHASE				MAIN		LOCATION		MOUNT
			225 AMPS	208Y/120V, 3 PH				LUGS ONLY		SWITCHBOARD ROOM		SURFACE
C K T NO	DESCRIPTION	BREAKER AMP/ POLE	KVA						BREAKER AMP/ POLE	DESCRIPTION	C K T NO	
			CKT	AØ	BØ	CØ	CKT					
1	GRANTS & CONTRACTS	20/1	0.0	0.0				0.0	20/1	GRANTS & CONTRACTS	2	
3	GRANTS & CONTRACTS	20/1	0.0		0.0			0.0	20/1	GRANTS & CONTRACTS	4	
5	GRANTS & CONTRACTS	30/1	0.0				0.0	0.0	30/1	GRANTS & CONTRACTS	6	
7	GRANTS & CONTRACTS	20/1	0.0	0.0				0.0	30/1	GRANTS & CONTRACTS	8	
9	GRANTS & CONTRACTS	30/1	0.0		0.0			0.0	30/1	GRANTS & CONTRACTS	10	
11	UNKNOWN	30/1	0.0				0.0	0.0	30/1	UNKNOWN	12	
13	MULTILITH 2850 OFFSET PRINT SHOP	20/1	0.0	0.0				0.0	30/1	UNKNOWN	14	
15	UNKNOWN	20/1	0.0		0.0			0.0	30/1	UNKNOWN	16	
17	GRANTS & CONTRACTS CONFERENCE ROOM	30/2	0.0			0.0		0.0	30/2	CAMERA STRIPPING ROOM (PRINT SHOP)	18	
19	----	--	0.0	0.0				0.0	--	----	20	
21	DEDICATED CIRCUIT MORIES COMPUTER	20/1	0.0		0.0			0.0	30/2	PROCESSOR ROOM 743 (PHOTO LAB)	22	
23	DRYMOUNT ROOM 748 (PHOTO LAB)	30/2	0.0				0.0	0.0	--	----	24	
25	----	--	0.0	0.0				0.0	20/1	MACHINE OUTLETS PRINT SHOP XEROX	26	
27	DRYER ROOM 748 (PHOTO LAB)	30/2	0.0		0.0			0.0	20/1	NORTH SERVICE	28	
29	----	--	0.0				0.0	0.0	30/2	COPIER, PITNEY BOWES MACHINE	30	
31	FLOOR BOX PRINT SHOP	30/2	0.0	0.0				0.0	--	----	32	
33	----	--	0.0		0.0			0.0	30/2	UNKNOWN	34	
35	UNKNOWN	30/2	0.0				0.0	0.0	--	----	36	
37	----	--	0.0	0.0				0.0	20/1	UNKNOWN	38	
39	UNKNOWN	30/1	0.0		0.0			0.0	20/1	UNKNOWN	40	
41	UNKNOWN	30/1	0.0				0.0	0.0	20/1	UNKNOWN	42	
BALANCED CONNECTED LOAD: 0.0 KVA / 0.0 AMPS				0.0	0.0	0.0						
MAXIMUM PHASE LOAD: 0.0 KVA / 0.0 AMPS												

PANEL LA3			SIZE		VOLTS/PHASE			MAIN		LOCATION		MOUNT			
C K T NO	DESCRIPTION	BREAKER AMP/ POLE	208Y/120V, 3 PH						LUGS ONLY		ELECTRICAL ROOM		SURFACE		
			KVA						BREAKER AMP/ POLE	DESCRIPTION					
			CKT	AØ	BØ	CØ	CKT								
1	SPARE	15/3	0.0	0.0				0.0	20/1(2)	PRINT SHOP 14, ROOM 712					2
3	----	--	0.0		0.0			0.0	20/1(2)	PRINT SHOP 16, ROOM 712					4
5	----	--	0.0				0.0	0.0	20/1(2)	DGS SERVICE POLE NO. 4(R), RM 712 POWER POLE (X)					6
7	DGS SERVICE POLE NO. 1	20/1	0.0	0.0				0.0	30/1	UPS					8
9	SERVICE POLE	20/1	0.0		0.0			0.0	20/1	DGS SERVICE POLE NO. 4					10
11	DGS SERVICE POLE NO. 2	20/1	0.0				0.0	0.0	20/1	POWER POLE -- PRINT					12
13	PLUG STRIP PIONEER BENEFIT KITCHEN	20/1	0.0	0.0				0.0	50/3	POWER POLE -- MAIL ROOM					14
15	PLUG STRIP PIONEER BENEFIT KITCHEN	20/1	0.0		0.0			0.0	--	----					16
17	DOUBLE DUPLEX PIONEER BENEFIT KITCHEN	20/1	0.0				0.0	0.0	--	----					18
19	DIVISION OF GENERAL SERVICES	20/1	0.0	0.0				0.0	20/1	POWER POLE -- PRINT SHOP					20
21	DGS SERVICE POLE NO. 1	20/1	0.0		0.0			0.0	20/1	POWER POLE -- STORAGE					22
23	CONFERENCE ROOM	20/1	0.0				0.0	0.0	20/1	SPARE					24
25	MAIN CIRCUIT BREAKER	100/3	0.0	0.0				0.0	20/1	AK LONGEVITY OFFICE EAST SIDE					26
27	----	--	0.0		0.0			0.0	20/1	AK LONGEVITY OFFICE EAST SIDE					28
29	----	--	0.0				0.0	0.0	20/1(2)	AK LONGEVITY OFFICE EAST SIDE					30
BALANCED CONNECTED LOAD: 0.0 KVA / 0.0 AMPS				0.0	0.0	0.0									
MAXIMUM PHASE LOAD: 0.0 KVA / 0.0 AMPS															

PANEL 7LA  (SECTION 1)			SIZE	VOLTS/PHASE				MAIN		LOCATION		MOUNT
C K T NO	DESCRIPTION	LTG	225 AMPS	208Y/120V, 3 PH				LUGS ONLY		ELECTRICAL ROOM		SURFACE
			BREAKER AMP/ POLE	KVA				BREAKER AMP/ POLE	DESCRIPTION		C K T NO	
				CKT	AØ	BØ	CØ					CKT
1	ELEVATOR LOBBY WEST	LTG	20/1	0.0	0.0			0.0	20/1	ELEVATOR LOBBY EAST	LTG	2
3	OUTLETS OFFICE AREA		20/1	0.0		0.0		0.0	20/1	OUTLETS OFFICE AREA		4
5	OUTLETS OFFICE AREA		20/1	0.0			0.0	0.0	20/1	OUTLETS OFFICE AREA		6
7	HSS WINDOW SIDE CORNER OFFICE		20/1	0.0	0.0			0.0	20/1	OUTLETS OFFICE AREA		8
9	OUTLETS OFFICE AREA		20/1	0.0		0.0		0.0	20/1	PIONEER HOME EAST SIDE		10
11	OUTLETS OFFICE AREA		20/1	0.0			0.0	0.0	20/1	SOUTH OFFICES PIONEER'S HOME		12
13	SOUTH OFFICES		20/1	0.0	0.0			0.0	20/1	OUTLETS OFFICE AREA		14
15	OUTLETS OFFICE AREA		20/1	0.0		0.0		0.0	20/1	MICROFISH ROOM		16
17	OUTLETS OFFICE AREA		20/1	0.0			0.0	0.0	20/1	OUTLETS OFFICE AREA		18
19	OUTLETS OFFICE AREA		20/1	0.0	0.0			0.0	20/1	HSS NEW COPIER		20
21	OUTLETS OFFICE AREA		20/1	0.0		0.0		0.0	20/1	OUTLETS OFFICE AREA		22
23	OUTLETS OFFICE AREA		20/1	0.0			0.0	0.0	20/1	OUTLETS OFFICE AREA		24
25	OUTLETS OFFICE AREA		20/1	0.0	0.0			0.0	20/1	DGS SERVICE POLE #5		26
27	7TH FLOOR DS & S DEDICATED OUTLET		20/1	0.0		0.0		0.0	20/1	DEDICATED OUTLET PIONEER BENEFIT		28
29	220V OUTLET TO KODAK		30/2	0.0			0.0	0.0	20/1	WATER HEATER PIONEER BENEFIT		30
31	----		--	0.0	0.0			0.0	30/1	220V OUTLET SOUTH STAIRWAY		32
33	PLUG STRIP MICROFILM LAB		20/1	0.0		0.0		0.0	20/1	DEDICATED OUTLET GEN. SERVICE SUPPLY		34
35	BRUNING 2000		20/2	0.0			0.0	0.0	20/1	DEDICATED OUTLET GEN. SERVICE SUPPLY		36
37	----		--	0.0	0.0			0.0	20/1	DEDICATED OUTLET GEN. SERVICE SUPPLY		38
39	XEROX ROOM EAST		20/1	0.0		0.0		0.0	20/1	DEDICATED OUTLET GEN. SERVICE SUPPLY		40
41	XEROX ROOM EAST		20/1	0.0			0.0	0.0	20/1	DEDICATED OUTLET GEN. SERVICE SUPPLY		42
TOTAL CONNECTED LOAD (SECTION 1): 0.0 KVA / 0.0 AMPS					0.0	0.0	0.0					

PANEL 7LA E (SECTION 2)			SIZE	VOLTS/PHASE			MAIN		LOCATION		MOUNT					
C K T NO	DESCRIPTION	BREAKER AMP/ POLE	225 AMPS						208Y/120V, 3 PH		LUGS ONLY		ELECTRICAL ROOM		SURFACE	
			KVA						BREAKER AMP/ POLE		DESCRIPTION					
			CKT	AØ	BØ	CØ	CKT									C K T NO
	43 OFFICE OUTLETS	Ⓢ	20/1	0.0	0.0			0.0	20/1		OFFICE OUTLETS	Ⓢ				44
X	45 ROOM 712 MIDDLE DOGHOUSE		20/1	0.0		0.0		0.0	20/1		OFFICE OUTLETS					46
	47 OFFICE OUTLETS	Ⓢ	20/1	0.0			0.0	0.0	20/1		DGS OFFICE POWER POLE NO. 3					48
	49 OVERHEAD FAN ROOM 708 EXHAUST FAN		20/1	0.0	0.0			0.0	20/1		OFFICE OUTLETS GENERAL SERVICES					50
	51 OFFICE OUTLETS	Ⓢ	20/1	0.0		0.0		0.0	20/1		OFFICE OUTLETS GENERAL SERVICES					52
	53 OFFICE OUTLETS		20/1	0.0			0.0	0.0	20/1		7TH FLOOR GENERAL SERVICES					54
	55 OUTLETS PANEL ROOM	Ⓢ	20/1	0.0	0.0			0.0	20/1		DRINKING FOUNTAIN					56
	57 EXTERIOR LIGHTING CONTACTOR		20/1	0.0		0.0		0.0	20/1		OUTLET MEN'S & WOMEN'S TOILETS					58
X	59 OUTLETS PHOTO LAB	Ⓢ	20/1	0.0			0.0	0.0	20/1		OUTLETS PHOTO LAB					60
X	61 MICROFISH		20/1	0.0	0.0			0.0	20/1		OUTLETS PHOTO LAB					62
X	63 OUTLETS PHOTO LAB		20/1	0.0		0.0		0.0	20/1		OUTLETS PHOTO LAB					64
X	65 OUTLETS PHOTO LAB		20/1	0.0			0.0	0.0	20/1		OUTLETS PHOTO LAB					66
	67 OUTLETS WALL MAILROOM	Ⓢ	20/1	0.0	0.0			0.0	20/1		CENTRAL MICROFILM – DEAD CIRCUIT					68
	69 LIGHTING CONTROL PANEL(S)		20/2	0.0		0.0		0.0	20/1		OUTLETS SOUND BOOTH MAIL ROOM					70
	71 ----		--	0.0			0.0	0.0	20/1		OUTLETS SOUND BOOTH MAIL ROOM					72
	73 OUTLETS WALL	Ⓢ	30/2	0.0	0.0			0.0	20/1		ROOM 749 OZALID					74
	75 ----		--	0.0		0.0		0.0	20/1		MICROFILM MACHINE	Ⓢ				76
	77 UNKNOWN		20/1	0.0			0.0	0.0	20/1		UNKNOWN					78
	79 PANEL 7LA4 MAIN CIRCUIT BREAKER		100/3	0.0	0.0			0.0	20/1		UNKNOWN					80
	81 ----		--	0.0		0.0		0.0	20/1		UNKNOWN					82
	83 ----		--	0.0			0.0	0.0	20/1		UNKNOWN					84
BALANCED CONNECTED LOAD (SECTION 2): 0.0 KVA / 0.0 AMPS					0.0	BØ	0.0									
BALANCED CONNECTED LOAD: 0.0 KVA / 0.0 AMPS																
MAXIMUM PHASE LOAD: 0.0 KVA / 0.0 AMPS																

SHEET NOTE: CONFIRM REMOVED CIRCUITS ONLY FEED LOADS IN THE PROJECT AREA.

AUGUST 2017

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Facilities Section
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ALASKA STATE OFFICE BUILDING
7TH & 8TH FLOOR RENOVATIONS

NorthWind Architects, LLC
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← 1" ACTUAL →

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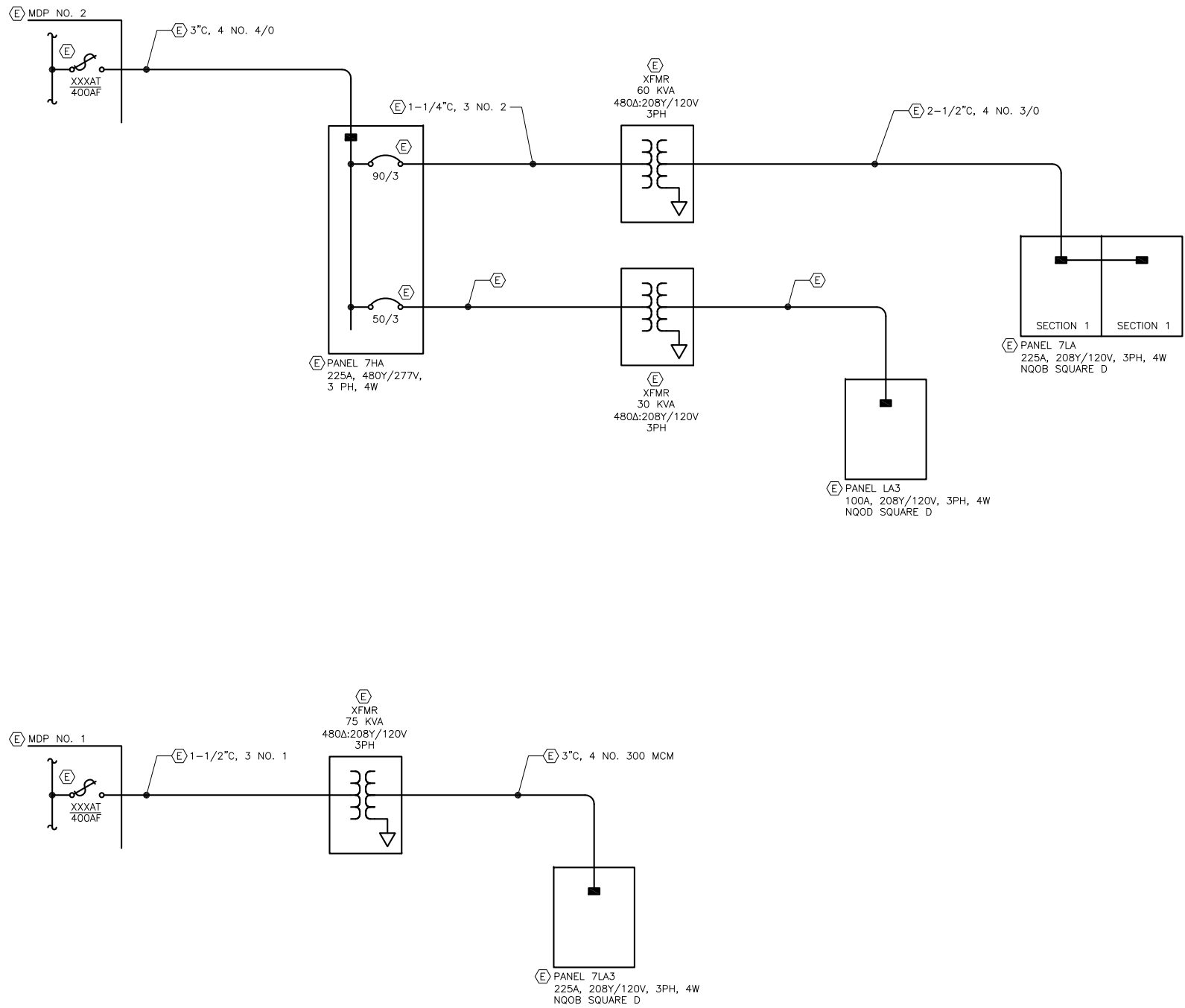
PANEL SCHEDULES

PROJECT DESIGNATION NUMBER

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1 SINGLE LINE DIAGRAM – EXISTING PARTIAL POWER DISTRIBUTION
NO SCALE

AUGUST 2017

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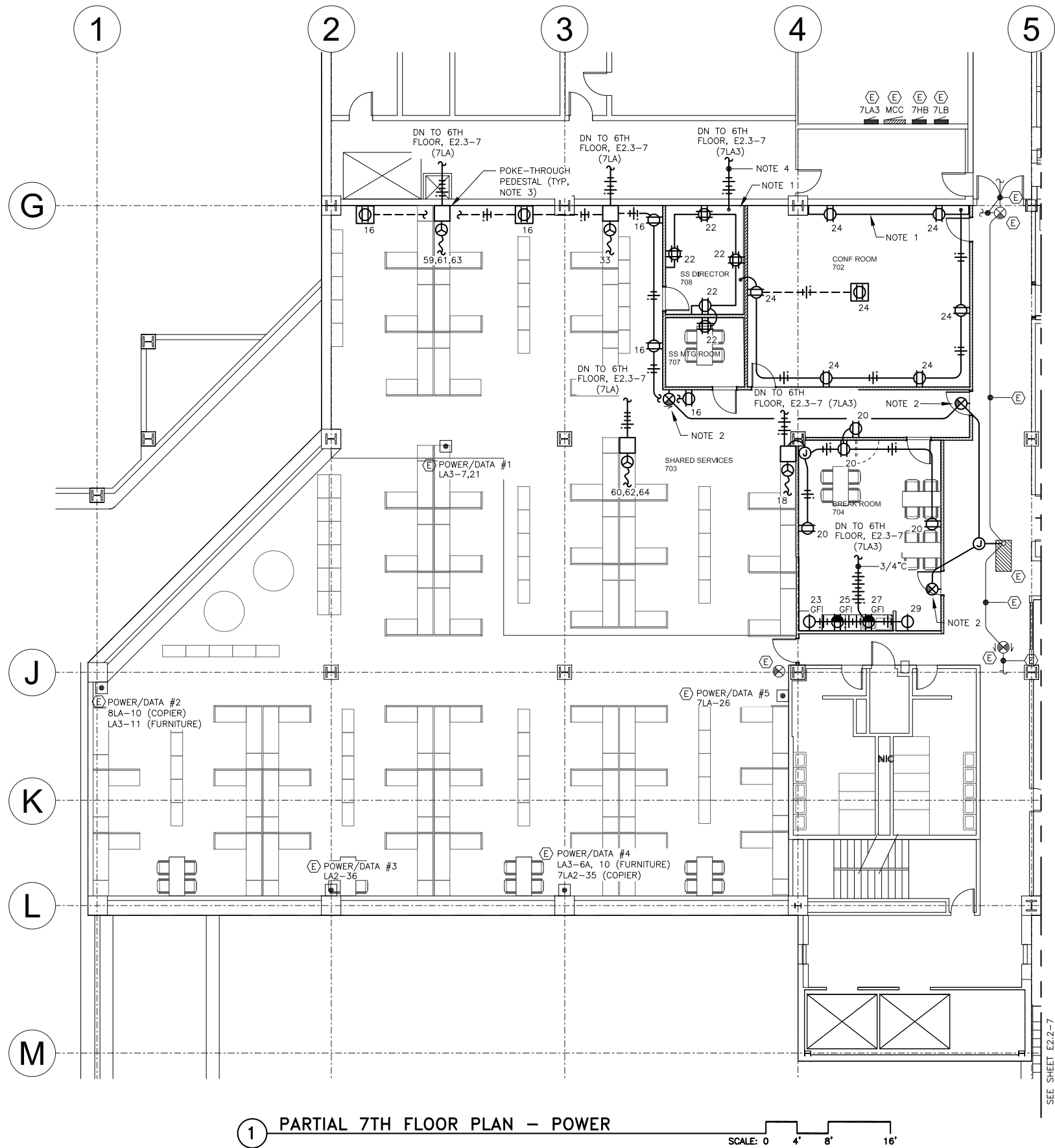
SINGLE LINE DIAGRAM

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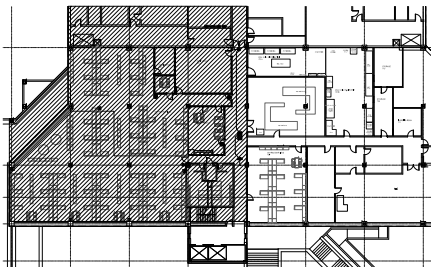
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- NOTES:
1. SURFACE RACEWAY BASIS OF DESIGN - WIREMOLD G4000.
 2. CIRCUIT NEW EXIT SIGNS FROM NEAREST NON-SWITCHED, EMERGENCY LIGHTING CIRCUIT IN MAIN CORRIDOR. COORDINATE WITH ABATEMENT TEAM.
 3. PROVIDE SURFACE MOUNT POKE-THROUGH (TOMBSTONE) PEDESTALS WITH CONDUIT PENETRATIONS THROUGH FLOOR TO JUNCTION BOXES IN CEILING SPACE BELOW.
 4. PROVIDE VERTICAL SURFACE RACEWAYS FROM HORIZONTAL SURFACE RACEWAYS TO CONDUIT PENETRATIONS THROUGH FLOOR.



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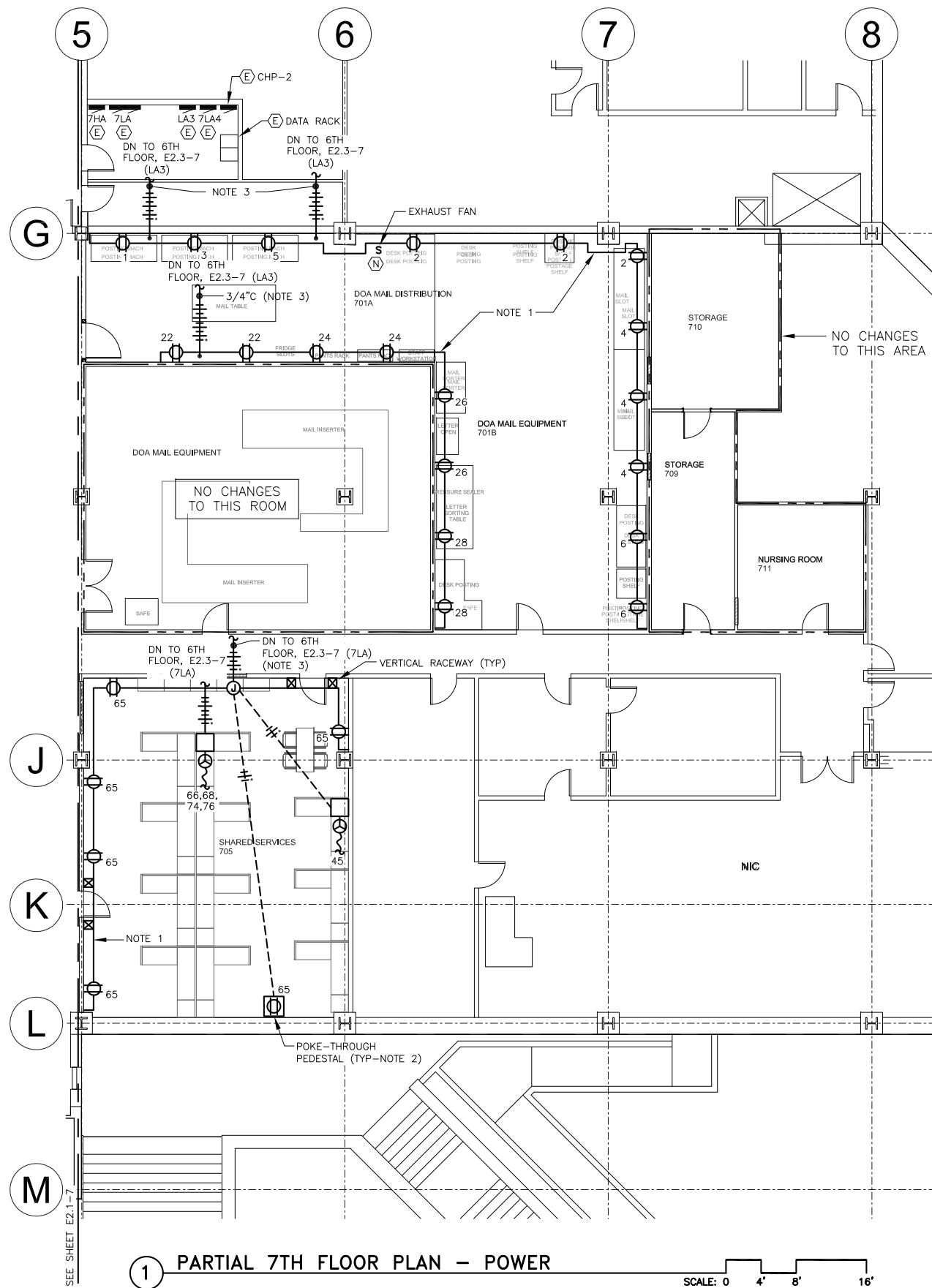
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E2.1-7
PARTIAL 7TH FLOOR
POWER PLAN

PROJECT DESIGNATION NUMBER
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STATE YEAR
ALASKA 2017

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NOTES:

1. SURFACE RACEWAY BASIS OF DESIGN - WIREMOLD G4000.
2. PROVIDE SURFACE MOUNT POKE-THROUGH (TOMBSTONE) PEDESTALS WITH CONDUIT PENETRATIONS THROUGH FLOOR TO JUNCTION BOXES IN CEILING SPACE BELOW.
3. PROVIDE VERTICAL SURFACE RACEWAYS FROM HORIZONTAL SURFACE RACEWAYS TO CONDUIT PENETRATIONS THROUGH FLOOR.



KEY PLAN

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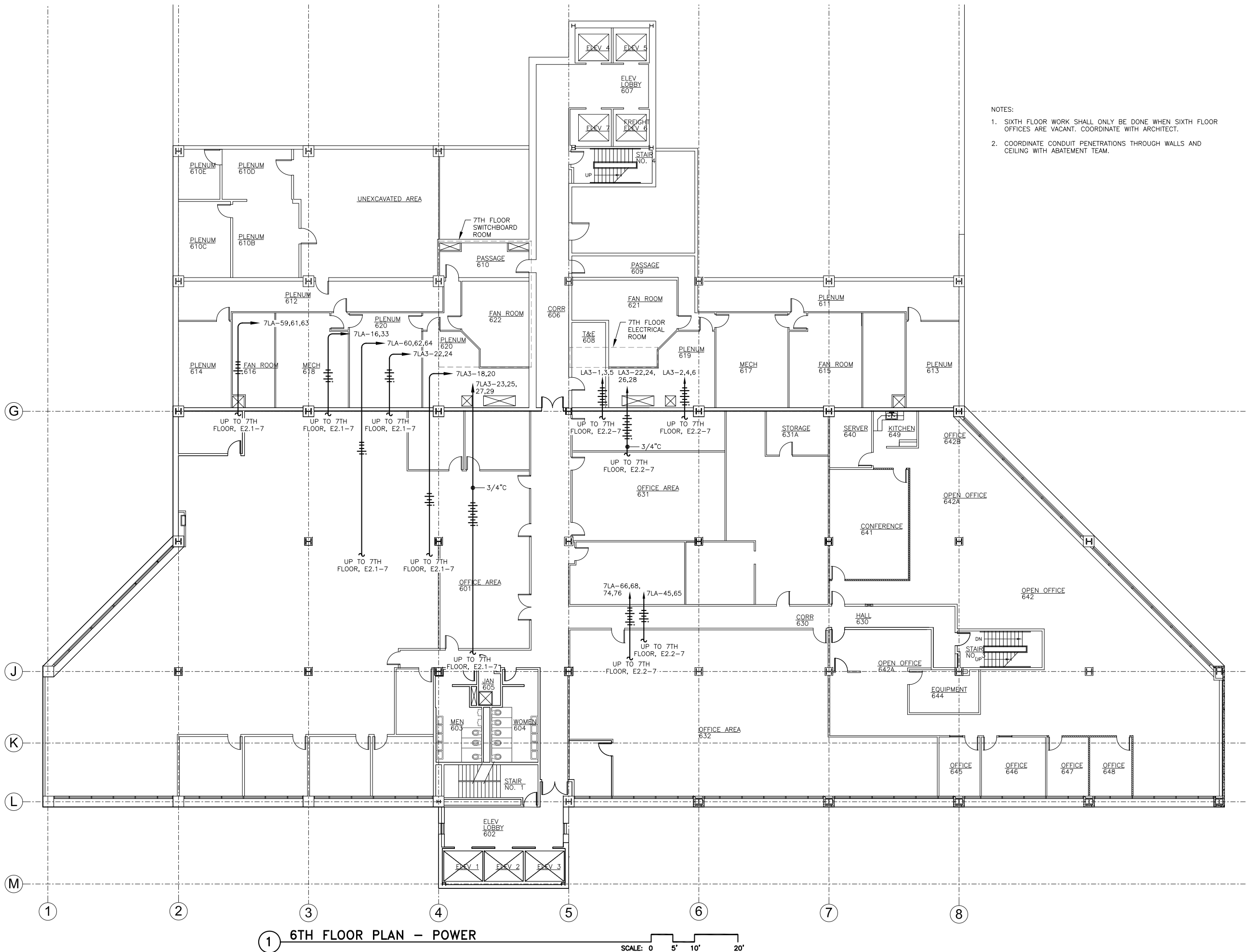
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- NOTES:
- SIXTH FLOOR WORK SHALL ONLY BE DONE WHEN SIXTH FLOOR OFFICES ARE VACANT. COORDINATE WITH ARCHITECT.
 - COORDINATE CONDUIT PENETRATIONS THROUGH WALLS AND CEILING WITH ABATEMENT TEAM.

STATE OF ALASKA
DEPARTMENT OF ADMINISTRATION
Division of General Services
Facilities Section
PO Box 11210
Juneau, AK 99811-0210
ALASKA STATE OFFICE BUILDING
7TH & 8TH FLOOR RENOVATIONS

AUGUST 2017		
ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

NorthWind Architects, LLC
www.NorthWindArch.com
126 Seward Street
Juneau, AK, 99801
Haight & Associates, Inc.
526 Main Street
Juneau, AK, 99801

250-71/2
E. Haight
P.O. MAIL
E2 4800
7 AUG 2017

DRAWN BY: REJ	
E2.3-7	
6TH FLOOR POWER PLAN	
PROJECT DESIGNATION NUMBER	
2018-0222-3725	
STATE	YEAR
ALASKA	2017

PANEL 7LA3			SIZE	VOLTS/PHASE			MAIN		LOCATION		MOUNT
			225 AMPS	208Y/120V, 3 PH			LUGS ONLY		SWITCHBOARD ROOM		SURFACE
C K T NO	DESCRIPTION	BREAKER AMP/ POLE	KVA						BREAKER AMP/ POLE	DESCRIPTION	C K T NO
			CKT	AØ	BØ	CØ	CKT				
1	GRANTS & CONTRACTS	20/1	0.0	0.0			0.0	20/1	GRANTS & CONTRACTS		2
3	GRANTS & CONTRACTS	20/1	0.0		0.0		0.0	20/1	GRANTS & CONTRACTS		4
5	GRANTS & CONTRACTS	30/1	0.0				0.0	30/1	GRANTS & CONTRACTS		6
7	GRANTS & CONTRACTS	20/1	0.0	0.0			0.0	30/1	GRANTS & CONTRACTS		8
9	GRANTS & CONTRACTS	30/1	0.0		0.0		0.0	30/1	GRANTS & CONTRACTS		10
11	UNKNOWN	30/1	0.0				0.0	30/1	UNKNOWN		12
13	MULTILITH 2850 OFFSET PRINT SHOP	20/1	0.0	0.0			0.0	30/1	UNKNOWN		14
15	UNKNOWN	20/1	0.0		0.0		0.0	30/1	UNKNOWN		16
17	GRANTS & CONTRACTS CONFERENCE ROOM	30/2	0.0			0.0	0.0	20/1	SHARED SERVICES FUNTITURE		18
19	----	--	0.0	0.0			0.0	20/1	BREAK ROOM AND CORIDOR		20
21	DEDICATED CIRCUIT MORIES COMPUTER	20/1	0.0		0.0		0.0	20/1	DIRECTOR OFFICE AND MEETING ROOM		22
23	BREAK ROOM DISHWASHER	20/1	0.0			0.0	0.0	20/1	CONFERENCE ROOM		24
25	BREAK ROOM COUNTER	20/1	0.0	0.0			0.0	20/1	MACHINE OUTLETS PRINT SHOP XEROX		26
27	BREAK ROOM COUNTER	20/1	0.0		0.0		0.0	20/1	NORTH SERVICE		28
29	BREAK ROOM REFRIGERATOR	20/1	0.0			0.0	0.0	30/2	COPIER, PITNEY BOWES MACHINE		30
31	FLOOR BOX PRINT SHOP	30/2	0.0	0.0			0.0	--	----		32
33	----	--	0.0		0.0		0.0	30/2	UNKNOWN		34
35	UNKNOWN	30/2	0.0			0.0	0.0	--	----		36
37	----	--	0.0	0.0			0.0	20/1	UNKNOWN		38
39	UNKNOWN	30/1	0.0		0.0		0.0	20/1	UNKNOWN		40
41	UNKNOWN	30/1	0.0			0.0	0.0	20/1	UNKNOWN		42
BALANCED CONNECTED LOAD: 0.0 KVA / 0.0 AMPS				0.0	0.0	0.0					
MAXIMUM PHASE LOAD: 0.0 KVA / 0.0 AMPS											

PANEL LA3			E	SIZE	VOLTS/PHASE				MAIN	LOCATION		MOUNT
				100 AMPS	208Y/120V, 3 PH				LUGS ONLY	ELECTRICAL ROOM		SURFACE
C K T NO	DESCRIPTION	BREAKER AMP/ POLE	KVA						BREAKER AMP/ POLE	DESCRIPTION	C K T NO	
			CKT	AØ	BØ	CØ	CKT					
1	DOA MAIL – POSTING MACHINE	20/1	0.0	0.0				0.0	20/1	DOA MAIL DISTRIBUTION	2	
3	DOA MAIL – POSTING MACHINE	20/1	0.0		0.0			0.0	20/1	DOA MAIL DISTRIBUTION	4	
5	DOA MAIL – POSTING MACHINE	20/1	0.0				0.0	0.0	20/1	DOA MAIL DISTRIBUTION	6	
7	DGS SERVICE POLE NO. 1	20/1	0.0	0.0				0.0	20/1	SPARE	8	
9	SERVICE POLE	20/1	0.0		0.0			0.0	20/1	DGS SERVICE POLE NO. 4	10	
11	DGS SERVICE POLE NO. 2	20/1	0.0			0.0		0.0	20/1	POWER POLE – PRINT	12	
13	PLUG STRIP PIONEER BENEFIT KITCHEN	20/1	0.0	0.0				0.0	50/3	POWER POLE – MAIL ROOM	14	
15	PLUG STRIP PIONEER BENEFIT KITCHEN	20/1	0.0		0.0			0.0	--	----	16	
17	DOUBLE DUPLEX PIONEER BENEFIT KITCHEN	20/1	0.0				0.0	0.0	--	----	18	
19	DIVISION OF GENERAL SERVICES	20/1	0.0	0.0				0.0	20/1	POWER POLE – PRINT SHOP	20	
21	DGS SERVICE POLE NO. 1	20/1	0.0		0.0			0.0	20/1	DOA MAIL – FRIDGE SLOTS	22	
23	SPARE	20/1	0.0				0.0	0.0	20/1	DOA MAIL – FRIDGE SLOTS	24	
25	MAIN CIRCUIT BREAKER	100/3	0.0	0.0				0.0	20/1	DOA MAIL – DISTRIBUTION	26	
27	----	--	0.0		0.0			0.0	20/1	DOA MAIL – DISTRIBUTION	28	
29	----	--	0.0				0.0	0.0	20/1	SPARE	30	
BALANCED CONNECTED LOAD: 0.0 KVA / 0.0 AMPS				0.0	0.0	0.0						
MAXIMUM PHASE LOAD: 0.0 KVA / 0.0 AMPS												

PANEL 7LA  (SECTION 1)			SIZE		VOLTS/PHASE			MAIN		LOCATION		MOUNT	
			225 AMPS		208Y/120V, 3 PH			LUGS ONLY		ELECTRICAL ROOM		SURFACE	
C K T NO	DESCRIPTION		BREAKER AMP/ POLE	KVA				BREAKER AMP/ POLE	DESCRIPTION		C K T NO		
				CKT	AØ	BØ	CØ					CKT	
1	ELEVATOR LOBBY WEST	LTG	20/1	0.0	0.0			0.0	20/1	ELEVATOR LOBBY EAST	LTG	2	
3	OUTLETS OFFICE AREA		20/1	0.0		0.0		0.0	20/1	OUTLETS OFFICE AREA		4	
5	OUTLETS OFFICE AREA		20/1	0.0			0.0	0.0	20/1	OUTLETS OFFICE AREA		6	
7	HSS WINDOW SIDE CORNER OFFICE		20/1	0.0	0.0			0.0	20/1	OUTLETS OFFICE AREA		8	
9	OUTLETS OFFICE AREA		20/1	0.0		0.0		0.0	20/1	PIONEER HOME EAST SIDE		10	
11	OUTLETS OFFICE AREA		20/1	0.0			0.0	0.0	20/1	SOUTH OFFICES PIONEER'S HOME		12	
13	SOUTH OFFICES		20/1	0.0	0.0			0.0	20/1	OUTLETS OFFICE AREA		14	
15	OUTLETS OFFICE AREA		20/1	0.0		0.0		0.0	20/1	SHARED SERVICES		16	
17	OUTLETS OFFICE AREA		20/1	0.0			0.0	0.0	20/1	OUTLETS OFFICE AREA		18	
19	OUTLETS OFFICE AREA		20/1	0.0	0.0			0.0	20/1	HSS NEW COPIER		20	
21	OUTLETS OFFICE AREA		20/1	0.0		0.0		0.0	20/1	OUTLETS OFFICE AREA		22	
23	OUTLETS OFFICE AREA		20/1	0.0			0.0	0.0	20/1	OUTLETS OFFICE AREA		24	
25	OUTLETS OFFICE AREA		20/1	0.0	0.0			0.0	20/1	DGS SERVICE POLE #5		26	
27	7TH FLOOR DS & S DEDICATED OUTLET		20/1	0.0		0.0		0.0	20/1	DEDICATED OUTLET PIONEER BENEFIT		28	
29	220V OUTLET TO KODAK		30/2	0.0			0.0	0.0	20/1	WATER HEATER PIONEER BENEFIT		30	
31	----	--	--	0.0	0.0			0.0	30/1	220V OUTLET SOUTH STAIRWAY		32	
33	SHARED SERVICES FURNITURE		20/1	0.0		0.0		0.0	20/1	DEDICATED OUTLET GEN. SERVICE SUPPLY		34	
35	BRUNING 2000		20/2	0.0			0.0	0.0	20/1	DEDICATED OUTLET GEN. SERVICE SUPPLY		36	
37	----	--	--	0.0	0.0			0.0	20/1	DEDICATED OUTLET GEN. SERVICE SUPPLY		38	
39	XEROX ROOM EAST		20/1	0.0		0.0		0.0	20/1	DEDICATED OUTLET GEN. SERVICE SUPPLY		40	
41	XEROX ROOM EAST		20/1	0.0			0.0	0.0	20/1	DEDICATED OUTLET GEN. SERVICE SUPPLY		42	
TOTAL CONNECTED LOAD (SECTION 1): 0.0 KVA / 0.0 AMPS					0.0	0.0	0.0						

PANEL 7LA			SIZE		VOLTS/PHASE			MAIN		LOCATION		MOUNT	
(SECTION 2)			225 AMPS		208Y/120V, 3 PH			LUGS ONLY		ELECTRICAL ROOM		SURFACE	
C K T NO	DESCRIPTION	BREAKER AMP/ POLE	KVA						BREAKER AMP/ POLE	DESCRIPTION	C K T NO		
			CKT	AØ	BØ	CØ	CKT						
43	OFFICE OUTLETS	Ⓛ	20/1	0.0	0.0			0.0	20/1	OFFICE OUTLETS	Ⓛ	44	
45	SHARED SERVICES FURNITURE		20/1	0.0		0.0		0.0	20/1	OFFICE OUTLETS		46	
47	OFFICE OUTLETS	Ⓡ	20/1	0.0			0.0	0.0	20/1	DGS OFFICE POWER POLE NO. 3		48	
49	OVERHEAD FAN ROOM 708 EXHAUST FAN		20/1	0.0	0.0			0.0	20/1	OFFICE OUTLETS GENERAL SERVICES		50	
51	OFFICE OUTLETS	Ⓛ	20/1	0.0		0.0		0.0	20/1	OFFICE OUTLETS GENERAL SERVICES		52	
53	OFFICE OUTLETS		20/1	0.0			0.0	0.0	20/1	7TH FLOOR GENERAL SERVICES		54	
55	OUTLETS PANEL ROOM	Ⓡ	20/1	0.0	0.0			0.0	20/1	DRINKING FOUNTAIN		56	
57	EXTERIOR LIGHTING CONTACTOR		20/1	0.0		0.0		0.0	20/1	OUTLET MEN'S & WOMEN'S TOILETS		58	
59	SHARED SERVICES FURNITURE	Ⓛ	20/1	0.0			0.0	0.0	20/1	SHARED SERVICES FURNITURE		60	
61	SHARED SERVICES FURNITURE		20/1	0.0	0.0			0.0	20/1	SHARED SERVICES FURNITURE		62	
63	SHARED SERVICES FURNITURE		20/1	0.0		0.0		0.0	20/1	SHARED SERVICES FURNITURE		64	
65	SHARED SERVICES	Ⓡ	20/1	0.0			0.0	0.0	20/1	SHARED SERVICES FURNITURE		66	
67	OUTLETS WALL MAILROOM	Ⓡ	20/1	0.0	0.0			0.0	20/1	SHARED SERVICES FURNITURE		68	
69	LIGHTING CONTROL PANEL(S)		20/2	0.0		0.0		0.0	20/1	OUTLETS SOUND BOOTH MAIL ROOM		70	
71	----	---	0.0				0.0	0.0	20/1	OUTLETS SOUND BOOTH MAIL ROOM		72	
73	OUTLETS WALL	Ⓛ	30/2	0.0	0.0			0.0	20/1	SHARED SERVICES FURNITURE		74	
75	----	---	0.0		0.0			0.0	20/1	SHARED SERVICES FURNITURE	Ⓡ	76	
77	UNKNOWN		20/1	0.0			0.0	0.0	20/1	UNKNOWN		78	
79	PANEL 7LA4 MAIN CIRCUIT BREAKER		100/3	0.0	0.0			0.0	20/1	UNKNOWN		80	
81	----	---	0.0		0.0			0.0	20/1	UNKNOWN		82	
83	----	---	0.0				0.0	0.0	20/1	UNKNOWN		84	
BALANCED CONNECTED LOAD (SECTION 2): 0.0 KVA / 0.0 AMPS					0.0	0.0	0.0						
BALANCED CONNECTED LOAD: 0.0 KVA / 0.0 AMPS													
MAXIMUM PHASE LOAD: 0.0 KVA / 0.0 AMPS													

* HANDLE TIES

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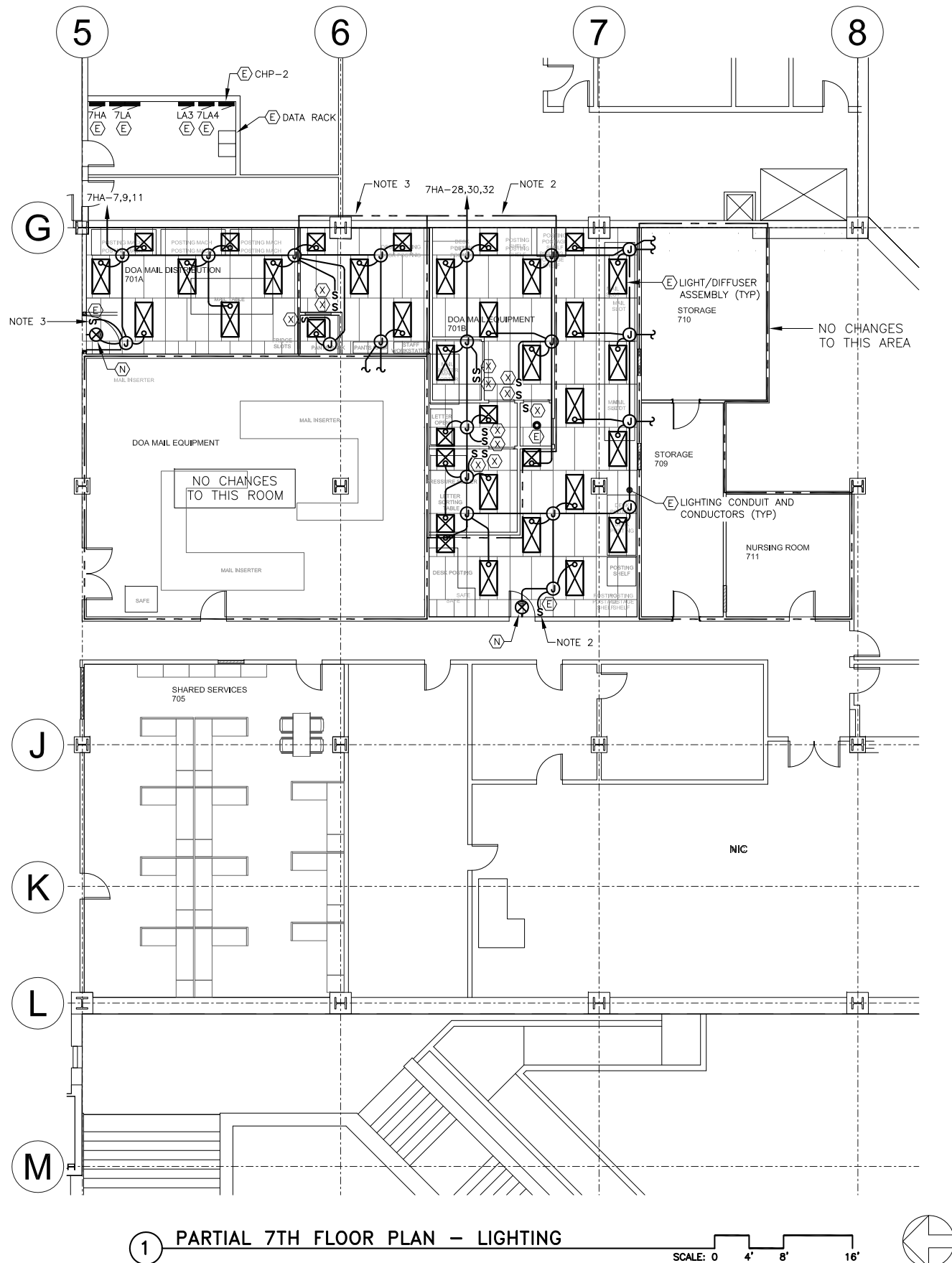
E2.4-7
PANEL SCHEDULES

PROJECT DESIGNATION NUMBER

2018-0222-3725

STATE
ALASKA
YEAR
2017

Plotted 8/9/2017 11:46 AM by Peggy Leslie F:\PROJECTS\250 NORTHWIND ARCHITECTS\71 ASOB 7TH FLOOR\DRAWINGS\WORKING\E3.1-7.DWG



- NOTES:
1. EXISTING LIGHT/DIFFUSERS ARE CIRCUITED FROM PANEL 7HA (277V).
 2. RECIRCUIT EXISTING LIGHT/DIFFUSER ASSEMBLIES AND LUMINAIRES IN INDICATED AREA TO PROVIDE SWITCHING FROM SINGLE POLE SWITCH ON WEST SIDE OF DOA MAIL EQUIPMENT ROOM. COORDINATE WITH ABATEMENT TEAM.
 3. RECIRCUIT EXISTING LIGHT/DIFFUSER ASSEMBLIES AND LUMINAIRES IN INDICATED AREA TO PROVIDE SWITCHING FROM SINGLE POLE SWITCH ON NORTH SIDE OF DOA MAIL EQUIPMENT ROOM. COORDINATE WITH ABATEMENT TEAM.



KEY PLAN

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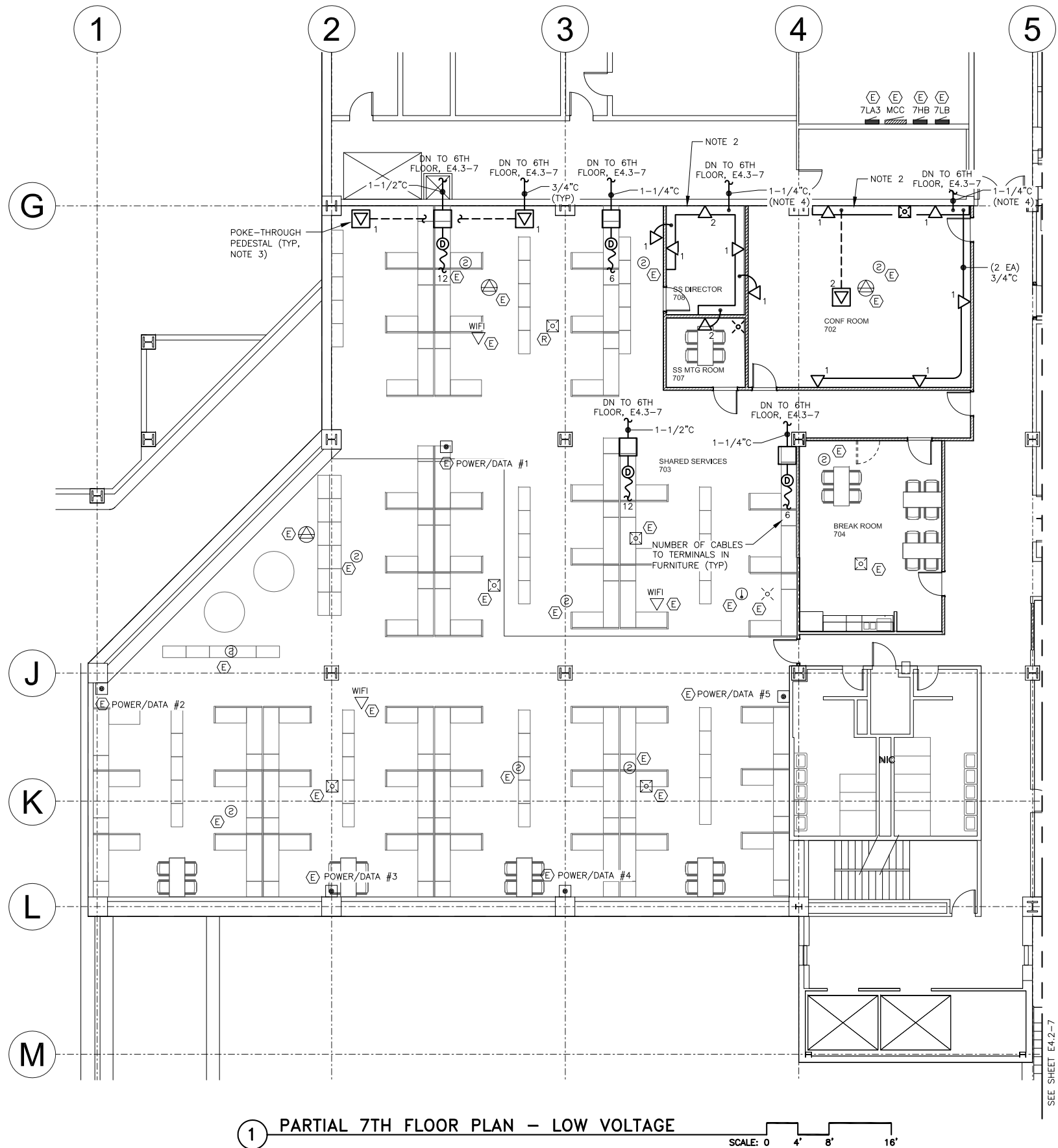
PARTIAL 7TH FLOOR
LIGHTING PLAN

PROJECT DESIGNATION NUMBER

2018-0222-3725

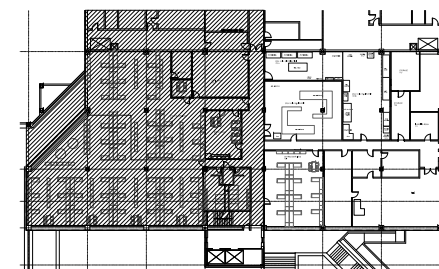
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ALASKA	2017

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NOTES:

1. CONNECT NEW FIRE ALARM DEVICES TO EXISTING FIRE ALARM SYSTEM. UTILIZE NEW CONDUITS TO ROUTE NEW FIRE ALARM CABLES. TEST AND CONFIRM FUNCTIONALITY OF NEW FIRE ALARM DEVICES WITH EXISTING FIRE ALARM SYSTEM.
2. SURFACE RACEWAY: BASIS OF DESIGN - WIREMOLD G4000.
3. PROVIDE SURFACE MOUNT POKE-THROUGH (TOMBSTONE) PEDESTALS WITH CONDUIT PENETRATIONS THROUGH FLOOR TO JUNCTION BOXES IN CEILING SPACE BELOW.
4. PROVIDE VERTICAL SURFACE RACEWAYS FROM HORIZONTAL SURFACE RACEWAYS TO CONDUIT PENETRATIONS THROUGH FLOOR.



KEY PLAN

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E4.1-7

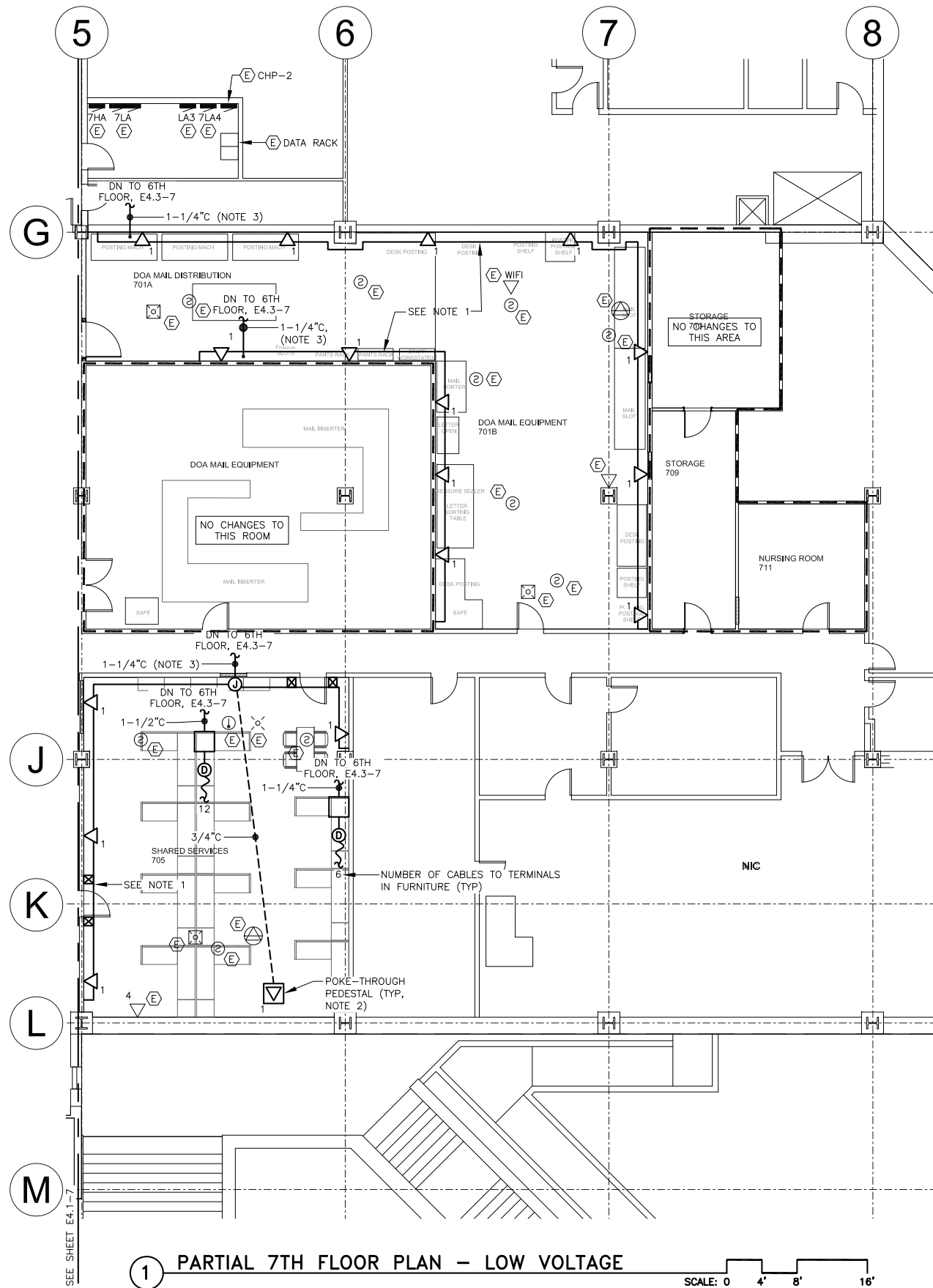
PARTIAL 7TH FLOOR
LOW VOLTAGE PLAN

PROJECT DESIGNATION NUMBER

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- NOTES:
1. SURFACE RACEWAY: BASIS OF DESIGN - WIREMOLD G4000.
 2. PROVIDE SURFACE MOUNT POKE-THROUGH (TOMBSTONE) PEDESTALS WITH CONDUIT PENETRATIONS THROUGH FLOOR TO JUNCTION BOXES IN CEILING SPACE BELOW.
 3. PROVIDE VERTICAL SURFACE RACEWAYS FROM HORIZONTAL SURFACE RACEWAYS TO CONDUIT PENETRATIONS THROUGH FLOOR.



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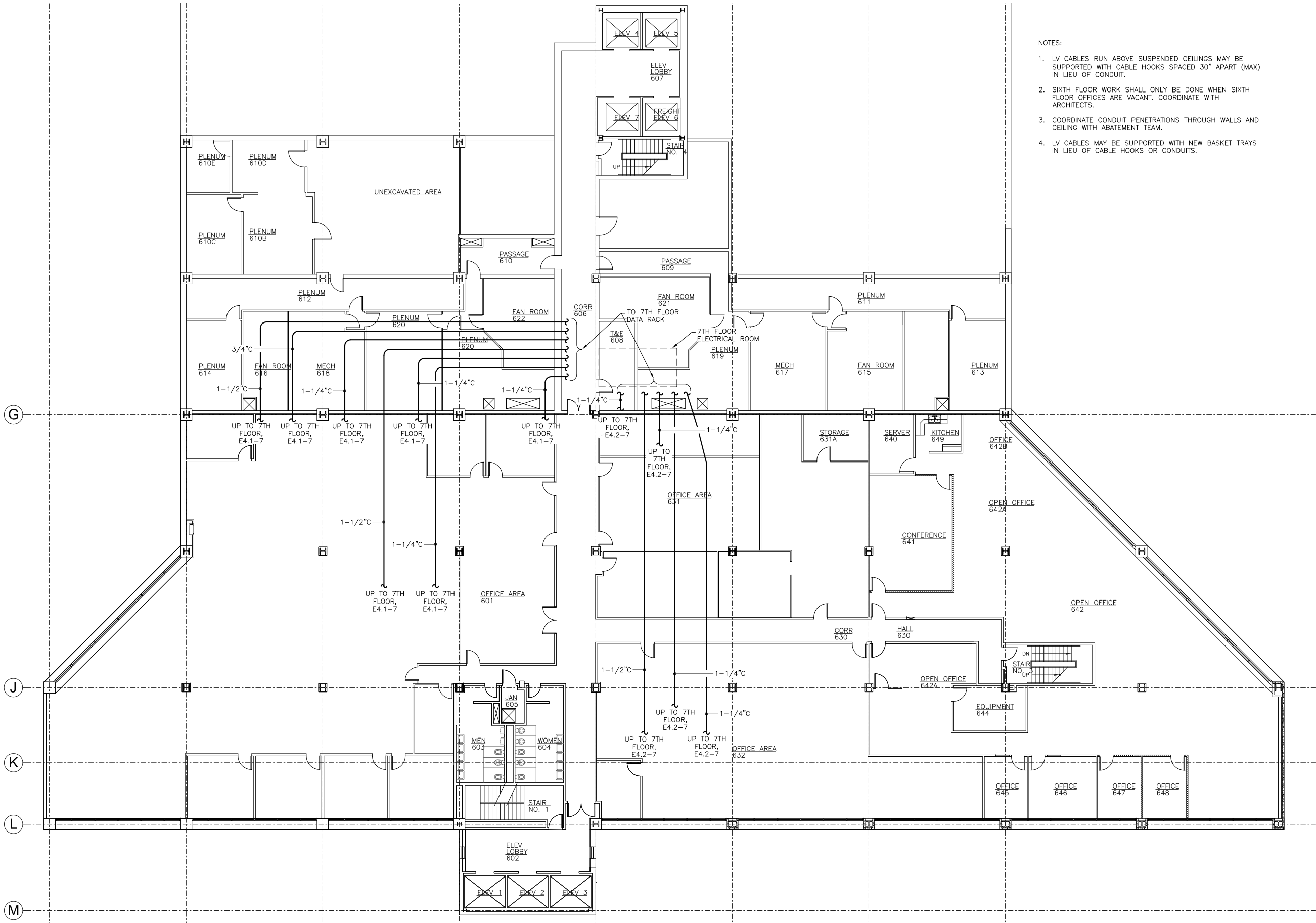
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E4.2-7
PARTIAL 7TH FLOOR
LOW VOLTAGE PLAN

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- NOTES:
1. LV CABLES RUN ABOVE SUSPENDED CEILINGS MAY BE SUPPORTED WITH CABLE HOOKS SPACED 30" APART (MAX) IN LIEU OF CONDUIT.
 2. SIXTH FLOOR WORK SHALL ONLY BE DONE WHEN SIXTH FLOOR OFFICES ARE VACANT. COORDINATE WITH ARCHITECTS.
 3. COORDINATE CONDUIT PENETRATIONS THROUGH WALLS AND CEILING WITH ABATEMENT TEAM.
 4. LV CABLES MAY BE SUPPORTED WITH NEW BASKET TRAYS IN LIEU OF CABLE HOOKS OR CONDUITS.

1 6TH FLOOR PLAN - LOW VOLTAGE

SCALE: 0 5' 10' 20'

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E4.3-7		
6TH FLOOR LOW VOLTAGE PLAN		
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ALASKA	2017	

F:\PROJECTS\250 NORTHWIND ARCHITECTS\72 ASOB 8TH FLOOR\DRAWINGS\WORKING\ES.1.DWG
Plotted 8/9/2017 9:32 AM by Peggy Leslie

SPECIFICATION

GENERAL

1.1 DEFINITIONS

- A. EMT: ELECTRICAL METALLIC TUBING.
- B. FMC: FLEXIBLE METAL CONDUIT.
- C. GFCI: GROUND–FAULT CIRCUIT INTERRUPTER.
- D. RSC: RIGID STEEL CONDUIT.
- E. UTP: UNSHIELDED TWISTED PAIR.

1.2 SUBMITTALS

- A. PRODUCT DATA:
 - 1. CONDUCTORS AND CABLES.
 - 2. CONDUITS, RACEWAYS, AND BOXES.
 - 3. WIRING DEVICES.
 - 4. PANELBOARDS AND OVERCURRENT PROTECTIVE DEVICES.
 - 5. DATA PATCH PANELS.
 - 6. FIRE ALARM DEVICES.
 - 7. HOOKS
 - 8. CABLE TRAYS
- B. SHOP DRAWINGS:
 - 1. PANELBOARDS AND OVERCURRENT PROTECTIVE DEVICES.
- C. FIELD TEST REPORTS: SUBMIT WRITTEN TEST REPORTS TO INCLUDE THE FOLLOWING:
 - 1. TEST PROCEDURES USED.
 - 2. TEST RESULTS THAT COMPLY WITH REQUIREMENTS.
 - 3. RESULTS OF FAILED TESTS AND CORRECTIVE ACTION TAKEN TO ACHIEVE TEST RESULTS THAT COMPLY WITH REQUIREMENTS.

1.3 QUALITY ASSURANCE

- A. ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, ARTICLE 100, BY A TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED USE.
- B. COMPLY WITH NFPA 70.

1.4 COORDINATION

- A. COORDINATE CHASES, SLOTS, INSERTS, SLEEVES, AND OPENINGS WITH GENERAL CONSTRUCTION WORK AND ARRANGE IN BUILDING STRUCTURE DURING PROGRESS OF CONSTRUCTION TO FACILITATE THE ELECTRICAL INSTALLATIONS THAT FOLLOW.
- B. SEQUENCE, COORDINATE, AND INTEGRATE INSTALLING ELECTRICAL MATERIALS AND EQUIPMENT FOR EFFICIENT FLOW OF THE WORK. COORDINATE INSTALLING LARGE EQUIPMENT REQUIRING POSITIONING BEFORE CLOSING IN THE BUILDING.
- C. WHERE ELECTRICAL IDENTIFICATION DEVICES ARE APPLIED TO FIELD–FINISHED SURFACES, COORDINATE INSTALLATION OF IDENTIFICATION DEVICES WITH COMPLETION OF FINISHED SURFACE.
- D. WHERE ELECTRICAL IDENTIFICATION MARKINGS AND DEVICES WILL BE CONCEALED BY ACOUSTICAL CEILINGS AND SIMILAR FINISHES, COORDINATE INSTALLATION OF THESE ITEMS BEFORE CEILING INSTALLATION.
- E. COORDINATE LAYOUT AND INSTALLATION OF RACEWAYS, BOXES, ENCLOSURES, CABINETS, AND SUSPENSION SYSTEM WITH OTHER CONSTRUCTION THAT PENETRATES CEILINGS OR IS SUPPORTED BY THEM, INCLUDING LIGHT FIXTURES, HVAC EQUIPMENT, FIRE–SUPPRESSION SYSTEM, AND PARTITION ASSEMBLIES.

1.5 FIELD QUALITY CONTROL

- A. INSPECT INSTALLED COMPONENTS FOR DAMAGE AND FAULTY WORK, INCLUDING THE FOLLOWING:
 - 1. SUPPORTING DEVICES FOR ELECTRICAL COMPONENTS.
 - 2. ELECTRICAL IDENTIFICATION.
 - 3. ELECTRICAL DEMOLITION.
 - 4. CUTTING AND PATCHING FOR ELECTRICAL CONSTRUCTION.
 - 5. TOUCHUP PAINTING.
- B. WIRING DEVICES:
 - 1. AFTER INSTALLING WIRING DEVICES AND AFTER ELECTRICAL CIRCUITRY HAS BEEN ENERGIZED, TEST FOR PROPER POLARITY, GROUND CONTINUITY, AND COMPLIANCE WITH REQUIREMENTS.
 - 2. TEST GFCI OPERATION WITH BOTH LOCAL AND REMOTE FAULT SIMULATIONS ACCORDING TO MANUFACTURER’S WRITTEN INSTRUCTIONS.
- C. LIGHTING:
 - 1. TEST FOR EMERGENCY LIGHTING: INTERRUPT POWER SUPPLY TO DEMONSTRATE PROPER OPERATION. VERIFY NORMAL TRANSFER TO BATTERY POWER SOURCE AND RETRANSFER TO NORMAL.

1.6 REFINISHING AND TOUCHUP PAINTING

- A. REFINISH AND TOUCHUP PAINT.
 - 1. CLEAN DAMAGED AND DISTURBED AREAS AND APPLY PRIMER, INTERMEDIATE, AND FINISH COATS TO SUIT THE DEGREE OF DAMAGE AT EACH LOCATION.
 - 2. FOLLOW PAINT MANUFACTURER’S WRITTEN INSTRUCTIONS FOR SURFACE PREPARATION AND FOR TIMING AND APPLICATION OF SUCCESSIVE COATS.
 - 3. REPAIR DAMAGE TO GALVANIZED FINISHES WITH ZINC–RICH PAINT RECOMMENDED BY MANUFACTURER.
 - 4. REPAIR DAMAGE TO PAINT FINISHES WITH MATCHING TOUCHUP COATING RECOMMENDED BY MANUFACTURER.

1.7 CLEANING AND PROTECTION

- A. ON COMPLETION OF INSTALLATION, INCLUDING OUTLETS, FITTINGS, AND DEVICES, INSPECT EXPOSED FINISH. REMOVE BURRS, DIRT, PAINT SPOTS, AND CONSTRUCTION DEBRIS.
- B. PROTECT EQUIPMENT AND INSTALLATIONS AND MAINTAIN CONDITIONS TO ENSURE THAT COATINGS, FINISHES, AND CABINETS ARE WITHOUT DAMAGE OR DETERIORATION AT TIME OF SUBSTANTIAL COMPLETION.

BASIC MATERIALS AND METHODS

1.1 SUPPORTING DEVICES

- A. MATERIAL: COLD–FORMED STEEL, WITH CORROSION–RESISTANT COATING ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
- B. SLOTTED–STEEL CHANNEL SUPPORTS: FLANGE EDGES TURNED TOWARD WEB, AND 9/16–INCH–DIAMETER SLOTTED HOLES AT A MAXIMUM OF 2 INCHES O.C., IN WEBS.
 - 1. CHANNEL THICKNESS: SELECTED TO SUIT STRUCTURAL LOADING.
 - 2. FITTINGS AND ACCESSORIES: PRODUCTS OF THE SAME MANUFACTURER AS CHANNEL SUPPORTS.
- C. RACEWAY AND CABLE SUPPORTS: MANUFACTURED CLEVIS HANGERS, RISER CLAMPS, STRAPS, THREADED C–CLAMPS WITH RETAINERS, CEILING TRAPEZE HANGERS, WALL BRACKETS, AND SPRING–STEEL OR CLICK–TYPE HANGERS.
- D. EXPANSION ANCHORS: CARBON–STEEL WEDGE OR SLEEVE TYPE.
- E. TOGGLE BOLTS: ALL–STEEL SPRINGHEAD TYPE.
- F. POWDER–DRIVEN THREADED STUDS: HEAT–TREATED STEEL.
- G. ELECTRICAL EQUIPMENT INSTALLATION:
 - 1. HEADROOM MAINTENANCE: IF MOUNTING HEIGHTS OR OTHER LOCATION CRITERIA ARE NOT INDICATED, ARRANGE AND INSTALL COMPONENTS AND EQUIPMENT TO PROVIDE THE MAXIMUM POSSIBLE HEADROOM.
 - 2. MATERIALS AND COMPONENTS: INSTALL LEVEL, PLUMB, AND PARALLEL AND PERPENDICULAR TO OTHER BUILDING SYSTEMS AND COMPONENTS, UNLESS OTHERWISE INDICATED.
 - 3. EQUIPMENT: INSTALL TO FACILITATE SERVICE, MAINTENANCE, AND REPAIR OR REPLACEMENT OF COMPONENTS. CONNECT FOR EASE OF DISCONNECTING, WITH MINIMUM INTERFERENCE WITH OTHER INSTALLATIONS.
 - 4. RIGHT OF WAY: GIVE TO RACEWAYS AND PIPING SYSTEMS INSTALLED AT A REQUIRED SLOPE.

H. ELECTRICAL SUPPORTING DEVICE APPLICATION:

- 1. DRY LOCATIONS: STEEL MATERIALS.
- 2. SELECTION OF SUPPORTS: COMPLY WITH MANUFACTURER’S WRITTEN INSTRUCTIONS.
- 3. STRENGTH OF SUPPORTS: ADEQUATE TO CARRY PRESENT AND FUTURE LOADS, TIME A SAFETY FACTOR OF AT LEAST FOUR; MINIMUM OF 200–LB DESIGN LOAD.

I. SUPPORT INSTALLATION:

- 1. INSTALL SUPPORT DEVICES TO SECURELY AND PERMANENTLY FASTEN AND SUPPORT ELECTRICAL COMPONENTS.
- 2. INSTALL INDIVIDUAL AND MULTIPLE RACEWAY HANGERS AND RISER CLAMPS TO SUPPORT RACEWAYS. PROVIDE U–BOLTS, CLAMPS, ATTACHMENTS, AND OTHER HARDWARE NECESSARY FOR HANGER ASSEMBLIES AND FOR SECURING HANGER RODS AND CONDUITS.
- 3. SUPPORT PARALLEL RUNS OF HORIZONTAL RACEWAYS TOGETHER ON TRAPEZE– OR BRACKET–TYPE HANGERS.
- 4. SIZE SUPPORTS FOR MULTIPLE RACEWAY INSTALLATIONS SO CAPACITY CAN BE INCREASED BY A 25 PERCENT MINIMUM IN THE FUTURE.
- 5. SUPPORT INDIVIDUAL HORIZONTAL RACEWAYS SEPARATE, MALLEABLE–IRON PIPE HANGERS OR CLAMPS.
- 6. INSTALL ¼–INCH DIAMETER OR LARGER THREADED STEEL HANGER RODS, UNLESS OTHERWISE INDICATED.
- 7. SPRING–STEEL FASTENERS SPECIFICALLY DESIGNED FOR SUPPORTING SINGLE CONDUITS OR TUBING MAY BE USED INSTEAD OF MALLEABLE–IRON HANGERS FOR 1–INCH AND SMALLER RACEWAYS SERVING LIGHTING AND RECEPTACLE BRANCH CIRCUITS ABOVE SUSPENDED CEILINGS FOR FASTENING TO SLOTTED CHANNEL AND ANGLE SUPPORTS.
- 8. ARRANGE SUPPORTS IN VERTICAL RUNS SO THE WEIGHT OF RACEWAYS AND ENCLOSED CONDUCTORS IS CARRIED ENTIRELY BY RACEWAY SUPPORTS, WITH NO WEIGHT LOAD ON RACEWAY TERMINALS.
- 9. SIMULTANEOUSLY INSTALL VERTICAL CONDUCTOR SUPPORTS WITH CONDUCTORS.
- 10. SEPARATELY SUPPORT CAST BOXES THAT ARE THREADED TO RACEWAYS AND USED FOR FIXTURE SUPPORT. SUPPORT SHEET–METAL BOXES DIRECTLY FROM THE BUILDING STRUCTURE OR BY BAR HANGERS. IF BAR HANGERS ARE USED, ATTACH BAR TO RACEWAYS ON OPPOSITE SIDES OF THE BOX AND SUPPORT THE RACEWAY WITH AN APPROVED FASTENER NOT MORE THAN 24 INCHES FROM THE BOX.
- 11. INSTALL METAL CHANNEL RACKS FOR MOUNTING CABINETS, PANELBOARDS, DISCONNECT SWITCHES, CONTROL ENCLOSURES, PULL AND JUNCTION BOXES, TRANSFORMERS, AND OTHER DEVICES, UNLESS COMPONENTS ARE MOUNTED DIRECTLY TO STRUCTURAL ELEMENTS OF ADEQUATE STRENGTH.
- 12. SECURELY FASTEN ELECTRICAL ITEMS AND THEIR SUPPORTS TO THE BUILDING STRUCTURE, UNLESS OTHERWISE INDICATED. PERFORM FASTENING ACCORDING TO THE FOLLOWING UNLESS OTHER FASTENING METHODS ARE INDICATED:
 - a. WOOD: FASTEN WITH WOOD SCREWS OR SCREW–TYPE NAILS.
 - b. EXISTING CONCRETE: EXPANSION BOLTS.
 - c. INSTEAD OF EXPANSION BOLTS, THREADED STUDS DRIVEN BY A POWDER CHARGE AND PROVIDED WITH LOCK WASHERS MAY BE USED IN EXISTING CONCRETE.

1.2 IDENTIFICATION

- A. IDENTIFICATION DEVICES: A SINGLE TYPE OF IDENTIFICATION PRODUCT FOR EACH APPLICATION CATEGORY. USE COLORS PRESCRIBED BY ANSI A13.1, NFPA 70, AND THESE SPECIFICATIONS.
- B. TAPE MARKERS FOR WIRE: VINYL OR VINYL–CLOTH, SELF–ADHESIVE, WRAPAROUND TYPE WITH PREPRINTED NUMBERS AND LETTERS.
- C. FLOOR MARKING TAPE: 2–INCH WIDE, 5 MIL PRESSURE SENSITIVE VINYL TAPE WITH YELLOW AND BLACK STRIPES AND CLEAR VINYL OVERLAY.
- D. INSTALLATION:
 - 1. INSTALL AT LOCATIONS FOR MOST CONVENIENT VIEWING WITHOUT INTERFERENCE WITH OPERATION AND MAINTENANCE OF EQUIPMENT.
 - 2. COORDINATE NAMES, ABBREVIATIONS, COLORS, AND OTHER DESIGNATIONS USED FOR ELECTRICAL IDENTIFICATION WITH CORRESPONDING DESIGNATIONS INDICATED IN THE CONTRACT DOCUMENTS OR REQUIRED BY CODES AND STANDARDS. USE CONSISTENT DESIGNATIONS THROUGHOUT PROJECT.
 - 3. SELF–ADHESIVE IDENTIFICATION PRODUCTS: CLEAN SURFACES BEFORE APPLYING.
 - 4. TAG AND LABEL CIRCUITS DESIGNATED TO BE EXTENDED IN THE FUTURE. IDENTIFY SOURCE AND CIRCUIT NUMBERS IN EACH CABINET, PULL AND JUNCTION BOX, AND OUTLET BOX. COLOR–CODING MAY BE USED FOR VOLTAGE AND PHASE IDENTIFICATION.
 - 5. COLOR–CODE 208/120–V SYSTEM SECONDARY SERVICE, FEEDER, AND BRANCH–CIRCUIT CONDUCTORS THROUGHOUT THE SECONDARY ELECTRICAL SYSTEM AS FOLLOWS:
 - a. PHASE A: BLACK
 - b. PHASE B: RED
 - c. PHASE C: BLUE
 - 6. WORKSPACE INDICATION: INSTALL FLOOR MARKING TAPE TO SHOW WORKING CLEARANCES IN THE DIRECTION OF ACCESS TO LIVE PARTS. WORKSPACE SHALL BE AS REQUIRED BY NFPA 70 AND 29 CFR 1926.403 UNLESS OTHERWISE INDICATED. DO NOT INSTALL AT FLUSH–MOUNTED PANELBOARDS AND SIMILAR EQUIPMENT IN FINISHED SPACES.

1.3 FIRESTOPPING

- A. APPLY FIRESTOPPING TO CABLE AND RACEWAY PENETRATIONS OF FIRE–RATED FLOOR AND WALL ASSEMBLIES TO ACHIEVE FIRE–RESISTANCE RATING OF THE ASSEMBLY.

1.4 DEMOLITION

- A. PROTECT EXISTING ELECTRICAL EQUIPMENT AND INSTALLATIONS INDICATED TO REMAIN. IF DAMAGED OR DISTURBED IN THE COURSE OF THE WORK, REMOVE DAMAGED PORTIONS AND INSTALL NEW PRODUCTS OF EQUAL CAPACITY, QUALITY, AND FUNCTIONALITY.
- B. ACCESSIBLE WORK: REMOVE EXPOSED ELECTRICAL EQUIPMENT AND INSTALLATIONS, INDICATED TO BE DEMOLISHED, IN THEIR ENTIRETY.
- C. ABANDONED WORK: CAP RACEWAYS AND PATCH SURFACE TO MATCH EXITING FINISH.
- D. REMOVE DEMOLISHED MATERIAL FROM PROJECT SITE.
- E. REMOVE, STORE, CLEAN, REINSTALL, RECONNECT, AND MAKE OPERATIONAL COMPONENTS INDICTED FOR RELOCATION.

1.5 CUTTING AND PATCHING

- A. CUT, CHANNEL, CHASE, AND DRILL FLOORS, WALLS, PARTITIONS, CEILINGS, AND OTHER SURFACES REQUIRED TO PERMIT ELECTRICAL INSTALLATIONS. PERFORM CUTTING BY SKILLED MECHANICS OF TRADES INVOLVED.
- B. REPAIR AND REFINISH DISTURBED FINISH MATERIALS AND OTHER SURFACES TO MATCH ADJACENT UNDISTURBED SURFACES. INSTALL NEW FIREPROOFING WHERE EXISTING FIRESTOPPING HAS BEEN DISTURBED. REPAIR AND REFINISH MATERIALS AND OTHER SURFACES BY SKILLED MECHANICS OF TRADES INVOLVED.

1.6 TOUCHUP PAINT

- A. FOR EQUIPMENT: EQUIPMENT MANUFACTURER’S PAINT SELECTED TO MATCH INSTALLED EQUIPMENT FINISH.
- B. GALVANIZED SURFACES: ZINC–RICH PAINT RECOMMENDED BY ITEM MANUFACTURER.

GROUNDING

1.1 GROUNDING CONDUCTORS

- A. MATERIAL: COPPER, ONLY.
- B. EQUIPMENT GROUNDING CONDUCTORS: INSULATED WITH GREEN–COLORED INSULATION.

1.2 CONNECTOR PRODUCTS

- A. COMPLY WITH IEEE 837 AND UL 467; LISTED FOR USE FOR SPECIFIC TYPES, SIZES, AND COMBINATIONS OF CONDUCTORS AND CONNECTED ITEMS.
- B. BOLTED CONNECTORS: BOLTED–PRESSURE–TYPE CONNECTORS, OR COMPRESSION TYPE.
- C. CRIMPED CONNECTORS: HIGH COMPRESSION TYPE, IN KIT FORM, AND SELECTED PER MANUFACTURER’S WRITTEN INSTRUCTIONS.

1.3 INSTALLATION

- A. IN RACEWAYS, USE INSULATED EQUIPMENT GROUNDING CONDUCTORS.
- B. EQUIPMENT GROUNDING CONDUCTOR TERMINATIONS: USE BOLTED PRESSURE CLAMPS.

AUGUST 2017

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

STATE OF ALASKA
DEPARTMENT OF ADMINISTRATION

Division of General Services
Facilities Section
PO Box 11210
Juneau, AK 99811-0210

ALASKA STATE OFFICE BUILDING
7TH & 8TH FLOOR RENOVATIONS



NorthWind Archtects, LLC
www.NorthWindArch.com
126 Seward Street
Juneau, AK, 99801

Haight & Associates, Inc.
526 Main Street
Juneau, AK, 99801

←1" ACTUAL→

IF THE ABOVE DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING WILL HAVE BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES.

DRAWN BY: REJ

E5.1
SPECIFICATIONS

PROJECT DESIGNATION NUMBER

2018-0222-3725

STATE	YEAR
ALASKA	2017

F:\PROJECTS\250 NORTHWIND ARCHITECTS\72 ASOB 8TH FLOOR\DRAWINGS\WORKING\E5.2.DWG
Plotted 8/9/2017 9:32 AM by Peggy Leslie

CONDUCTORS AND CABLES

- 1.1 CONDUCTOR AND CABLE MATERIAL
- A. COPPER COMPLYING WITH NEMA WC 5 OR 7; STRANDED.
- B. INSULATION TYPES: TYPE THHN–THWN WITH NEMA WC 5 OR 7.
- C. CABLE: METAL–CLAD CABLE, TYPE MC WITH GROUND WIRE.
1. MC METAL–CLAD CABLE: PROVIDE INTERLOCKED STEEL OR ALUMINUM METAL CLAD CABLE WITH THHN, COLOR CODED, COPPER CONDUCTORS. THE METAL SHEATH MAY SERVE AS A SAFETY GROUND. PROVIDE THE CABLE WITH A GROUND CONDUCTOR FOR ISOLATED OR SEPARATE SAFETY GROUND. PROVIDE AN OVERALL WRAP OF MOISTURE RESISTANT COVERING MADE WITH THE INTERLOCKING METAL SHEATH. PROVIDE CONNECTORS AND SUPPORT CLAMPS SPECIFICALLY MADE FOR THIS CABLE.
- 1.2 CONDUCTOR AND INSULATION APPLICATIONS
- A. EXPOSED FEEDERS: THHN–THWN SINGLE CONDUCTORS IN RACEWAY.
- B. EXPOSED BRANCH CIRCUITS: TYPE THHN–THWN SINGLE CONDUCTORS IN RACEWAY.
- C. BRANCH CIRCUITS CONCEALED IN CEILINGS, WALLS, AND PARTITIONS: TYPE THHN–THWN CONDUCTORS IN RACEWAYS AND METAL–CLAD CABLE, TYPE MC.
- D. COORDINATE CONDUCTOR INSULATION TEMPERATURE RATING AND AMPACITY RATING WITH THE TEMPERATURE AND AMPACITY RATING OF THEIR CIRCUIT PROTECTION DEVICES.
- E. TIGHTEN ELECTRICAL CONNECTORS AND TERMINALS ACCORDING TO MANUFACTURER’S PUBLISHED TORQUE–TIGHTENING VALUES. IF MANUFACTURER’S TORQUE VALUES ARE NOT INDICATED, USE THOSE SPECIFIED IN UL 486A AND UL 486B.
- F. MAKE SPLICES AND TAPS THAT ARE COMPATIBLE WITH CONDUCTOR MATERIAL.
- G. WIRING AT OUTLETS: INSTALL CONDUCTOR AT EACH OUTLET, WITH AT LEAST 6 INCHES OF SLACK.

RACEWAYS

- 1.1 CONDUIT AND TUBING
- A. EMT AND FITTINGS: ANSI C80.3
1. FITTINGS: SET–SCREW OR COMPRESSION TYPE.
- B. FITTINGS: NEMA FB 1; COMPATIBLE WITH CONDUIT AND TUBING MATERIALS.
- 1.2 WIREWAYS:
- A. SHEET METAL SIZED AND SHAPED AS INDICATED, NEMA 1; SCREW–COVER TYPE. INCLUDE COUPLINGS, OFFSETS, ELBOWS, EXPANSION JOINTS, ADAPTERS, HOLD–DOWN STRAPS, END CAPS, AND OTHER FITTINGS TO MATCH AND MATE WITH WIREWAYS AS REQUIRED FOR COMPLETE SYSTEM.
- 1.3 INSTALLATION
- A. INDOORS:
1. EXPOSED: EMT.
2. CONCEALED: EMT.
3. BOXES AND ENCLOSURES: NEMA 250, TYPE 1.
- B. MINIMUM RACEWAY SIZE: ½–INCH TRADE SIZE.
- C. RACEWAY FITTINGS: COMPATIBLE WITH RACEWAYS AND SUITABLE FOR USE AND LOCATION.
- D. CONCEAL CONDUIT AND EMT WITHIN FINISHED AND INACCESSIBLE WALLS, CEILINGS, AND FLOORS, UNLESS OTHERWISE INDICATED.
1. INSTALL CONCEALED RACEWAYS WITH A MINIMUM OF BENDS IN THE SHORTEST PRACTICAL DISTANCE, CONSIDERING TYPE OF BUILDING CONSTRUCTION AND OBSTRUCTIONS, UNLESS OTHERWISE INDICATED.
- E. INSTALL EXPOSED RACEWAYS, AND RACEWAYS WITHIN ACCESSIBLE SPACES, PARALLEL OR AT RIGHT ANGLES TO NEARBY SURFACES OR STRUCTURAL MEMBERS AND FOLLOW SURFACE CONTOURS AS MUCH AS POSSIBLE.
1. RUN PARALLEL OR BANKED RACEWAYS TOGETHER ON COMMON SUPPORTS.
2. MAKE PARALLEL BENDS IN PARALLEL OR BANKED RUNS. USE FACTORY ELBOWS ONLY WHERE ELBOWS CAN BE INSTALLED PARALLEL; OTHERWISE, PROVIDE FIELD BENDS FOR PARALLEL RACEWAYS.
- F. JOIN RACEWAYS WITH FITTINGS DESIGNED AND APPROVED FOR THAT PURPOSE AND MAKE JOINTS TIGHT.
1. USE INSULATING BUSHINGS TO PROTECT CONDUCTORS.
- G. TIGHTEN SET SCREWS OF THREADLESS FITTINGS WITH SUITABLE TOOLS.
- H. TERMINATIONS:
1. WHERE RACEWAYS ARE TERMINATED WITH LOCKNUTS AND BUSHINGS, ALIGN RACEWAYS TO ENTER SQUARELY AND INSTALL LOCKNUTS WITH DISHED PART AGAINST BOX. USE TWO LOCKNUTS, ONE INSIDE AND ONE OUTSIDE BOX.
2. WHERE RACEWAYS ARE TERMINATED WITH THREADED HUBS, SCREW RACEWAYS OR FITTINGS TIGHTLY INTO HUB SO END BEARS AGAINST WIRE PROTECTION SHOULDER. WHERE CHASE NIPPLES ARE USED, ALIGN RACEWAYS SO COUPLING IS SQUARE TO BOX; TIGHTEN CHASE NIPPLE SO NO THREADS ARE EXPOSED.
- I. INSTALL PULL WIRES IN EMPTY RACEWAYS. USE POLYPROPYLENE OR MONOFILAMENT PLASTIC LINE WITH NOT LESS THAN 200–LB TENSILE STRENGTH. LEAVE AT LEAST 12 INCHES OF SLACK AT EACH END OF PULL WIRE.
- J. LOW VOLTAGE SYSTEM RACEWAYS, 2–INCH TRADE SIZE AND SMALLER: IN ADDITION TO ABOVE REQUIREMENTS, INSTALL RACEWAYS IN MAXIMUM LENGTHS OF 150 FEET AND WITH A MAXIMUM OF TWO 90–DEGREE BENDS OR EQUIVALENT. SEPARATE LENGTHS WITH PULL OR JUNCTION BOXES WHERE NECESSARY TO COMPLY WITH THESE REQUIREMENTS.
- K. STUB–UP CONNECTIONS: EXTEND CONDUITS THROUGH CONCRETE FLOOR FOR CONNECTION TO FREESTANDING EQUIPMENT. INSTALL WITH AN ADJUSTABLE TOP OR COUPLING THREADED INSIDE FOR PLUGS SET FLUSH WITH FINISHED FLOOR. EXTEND CONDUCTORS TO EQUIPMENT WITH RIGID STEEL CONDUIT; FMC MAY BE USED 6 INCHES ABOVE THE FLOOR. INSTALL SCREWDRIVER–OPERATED THREADED PLUGS FLUSH WITH FLOOR FOR FUTURE EQUIPMENT CONNECTIONS.
- L. SURFACE RACEWAYS: INSTALL A SEPARATE, GREEN, GROUND CONDUCTOR IN RACEWAYS FROM JUNCTION BOX SUPPLYING RACEWAYS TO RECEPTACLE OR FIXTURE GROUND TERMINALS.

COMMUNICATION HOOKS AND CABLE TRAYS

- 1.1 HOOKS
- A. DESCRIPTION: PREFABRICATED SHEET METAL CABLE SUPPORTS FOR TELECOMMUNICATIONS CABLE.
- B. LISTED AND LABELED AS DEFINED IN NFPA 70, BY AN NRTL, AND MARKED FOR INTENDED LOCATION AND APPLICATION.
- C. COMPLY WITH TIA–569–D.
- D. GALVANIZED STEEL.
- E. J SHAPE
- 1.2 WIRE–MESH CABLE TRAY
- A. DESCRIPTION:
1. CONFIGURATION: GALVANIZED–STEEL WIRE MESH, COMPLYING WITH NEMA VE 1.
2. WIDTH: 12 INCHES (300 MM), UNLESS OTHERWISE INDICATED ON DRAWINGS.
3. MINIMUM USABLE LOAD DEPTH: 2 INCHES (50 MM).
4. STRAIGHT SECTION LENGTHS: 10 FEET (3.0 M), EXCEPT WHERE SHORTER LENGTHS ARE REQUIRED TO FACILITATE TRAY ASSEMBLY.
5. STRUCTURAL PERFORMANCE: CAPABLE OF SUPPORTING A MAXIMUM CABLE LOAD, WITH A SAFETY FACTOR OF 1.5, PLUS A 200–LB (90–KG) CONCENTRATED LOAD, WHEN TESTED ACCORDING TO NEMA VE 1.
6. SPLICING ASSEMBLIES: BOLTED TYPE USING SERRATED FLANGE LOCKNUTS.
7. SPLICE–PLATE CAPACITY: SPLICES LOCATED WITHIN SUPPORT SPAN SHALL NOT DIMINISH RATED LOADING CAPACITY OF CABLE TRAY.
- B. MATERIALS AND FINISHES:
1. STEEL: ELECTROGALVANIZED AFTER FABRICATION, COMPLYING WITH ASTM B 633.
2. HARDWARE: GALVANIZED, ASTM B 633.

- 1.3 HOOK INSTALLATION
- A. SIZE TO ALLOW A MINIMUM OF 25 PERCENT FUTURE CAPACITY WITHOUT EXCEEDING DESIGN CAPACITY LIMITS.
- B. SHALL BE SUPPORTED BY DEDICATED SUPPORT WIRES. DO NOT USE CEILING GRID SUPPORT WIRE OR SUPPORT RODS.
- C. HOOK SPACING SHALL ALLOW NO MORE THAN 6 INCHES (150 MM) OF SLACK. THE LOWEST POINT OF THE CABLES SHALL BE NO LESS THAN 6 INCHES (150 MM) ADJACENT TO CEILINGS, MECHANICAL DUCTWORK AND FITTINGS, LUMINAIRES, POWER CONDUITS, POWER AND TELECOMMUNICATIONS OUTLETS, AND OTHER ELECTRICAL AND COMMUNICATIONS EQUIPMENT.
- D. SPACE HOOKS NO MORE THAN 3.3 FEET (1.0 M) O.C.
- E. PROVIDE A HOOK AT EACH CHANGE IN DIRECTION.
- 1.4 CABLE TRAY INSTALLATION
- A. INSTALL CABLE TRAYS ACCORDING TO NEMA VE 2.
- B. INSTALL CABLE TRAYS AS A COMPLETE SYSTEM, INCLUDING FASTENERS, HOLD–DOWN CLIPS, SUPPORT SYSTEMS, ADJUSTABLE HORIZONTAL AND VERTICAL SPLICE PLATES, ELBOWS, REDUCERS, TEES, CROSSES, CABLE DROPOUTS, ADAPTERS, AND BONDING.
- C. INSTALL CABLE TRAYS SO THAT THE TRAY IS ACCESSIBLE FOR CABLE INSTALLATION AND ALL SPLICES ARE ACCESSIBLE FOR INSPECTION AND ADJUSTMENT.
- D. REMOVE BURRS AND SHARP EDGES FROM CABLE TRAYS.
- E. FASTEN CABLE TRAY SUPPORTS TO BUILDING STRUCTURE.
- F. CONSTRUCT SUPPORTS FROM CHANNEL MEMBERS, THREADED RODS, AND OTHER APPURTENANCES FURNISHED BY CABLE TRAY MANUFACTURER. ARRANGE SUPPORTS IN TRAPEZE OR WALL–BRACKET FORM AS REQUIRED BY APPLICATION.
- G. INSTALL CABLE TRAYS WITH ENOUGH WORKSPACE TO PERMIT ACCESS FOR INSTALLING CABLES.
- H. GROUND CABLE TRAYS ACCORDING TO NFPA 70 UNLESS ADDITIONAL GROUNDING IS SPECIFIED.
- I. CABLE TRAYS SHALL BE BONDED TOGETHER WITH SPLICE PLATES LISTED FOR GROUNDING PURPOSES OR WITH LISTED BONDING JUMPERS.
- J. INSTALL CABLES ONLY WHEN EACH CABLE TRAY RUN HAS BEEN COMPLETED AND INSPECTED.
- K. FASTEN CABLES ON HORIZONTAL RUNS WITH CABLE CLAMPS OR CABLE TIES ACCORDING TO NEMA VE 2. TIGHTEN CLAMPS ONLY ENOUGH TO SECURE THE CABLE, WITHOUT INDENTING THE CABLE JACKET. INSTALL CABLE TIES WITH A TOOL THAT INCLUDES AN AUTOMATIC PRESSURE–LIMITING DEVICE.

BOXES, ENCLOSURES, AND CABINETS

- 1.1 SHEET METAL OUTLET AND DEVICE BOXES: NEMA OS 1.
- 1.2 SMALL SHEET METAL PULL AND JUNCTION BOXES: NEMA OS 1.

WIRING DEVICES

- 1.1 RECEPTACLES
- A. STRAIGHT–BLADE–TYPE RECEPTACLES: COMPLY WITH NEMA WD1, NEMA WD 6, DSCC W–C–596G, AND UL 498, 20 AMPERE MINIMUM.
- B. GFCI RECEPTACLES: STRAIGHT BLADE, FEED–THROUGH TYPE, HEAVY–DUTY GRADE, WITH INTEGRAL NEMA WD 6, CONFIGURATION 5–20R DUPLEX RECEPTACLE; COMPLYING WITH UL 498 AND UL 943. DESIGN UNITS FOR INSTALLATION IN A 2–3/4–INCH–DEEP OUTLET BOX WITHOUT AN ADAPTER.
- C. COLOR: WHITE.
- 1.2 WALL PLATES
- A. SINGLE AND COMBINATION TYPES TO MATCH CORRESPONDING WIRING DEVICES.
1. PLATE–SECURING SCREWS: METAL WITH HEAD COLOR TO MATCH PLATE FINISH.
2. MATERIAL FOR FINISHED SPACES: SMOOTH, HIGH–IMPACT, NYLON.
- 1.3 INSTALLATION
- A. INSTALL DEVICES AND ASSEMBLIES LEVEL, PLUMB, AND SQUARE WITH BUILDING LINES.
- B. ARRANGEMENT OF DEVICES: UNLESS OTHERWISE INDICATED, MOUNT FLUSH, WITH LONG DIMENSION VERTICAL, AND WITH GROUNDING TERMINAL OF RECEPTACLES ON BOTTOM. GROUP ADJACENT SWITCHES UNDER SINGLE, MULTIGANG WALL PLATES.

LIGHTING

- 1.1 EXIT SIGNS: COMPLY WITH UL 924; FOR SIGN COLORS AND LETTERING SIZE, COMPLY WITH AUTHORITIES HAVING JURISDICTION. LIGHT–EMITTING DIODES, 70,000 HOURS MINIMUM OF RATED LAMP LIFE. INTEGRAL AUTOMATIC CHARGER IN A SELF–CONTAINED POWER PACK.
- 1.2 INSTALLATION
- A. FIXTURES: SET LEVEL, PLUMB, AND SQUARE WITH CEILINGS AND WALLS.
- B. SUPPORT FOR FIXTURES IN OR ON GRID–TYPE SUSPENDED CEILINGS: USE GRID FOR SUPPORT.
1. INSTALL A MINIMUM OF FOUR CEILING SUPPORT SYSTEM RODS OR WIRES FOR EACH FIXTURE. LOCATE NOT MORE THAN 6 INCHES FROM FIXTURE CORNERS.
2. SUPPORT CLIPS: FASTEN TO FIXTURES AND TO CEILING GRID MEMBERS AT OR NEAR EACH FIXTURE CORNER WITH CLIPS THAT ARE UL LISTED FOR THE APPLICATION.
3. FIXTURES OF SIZES LESS THAN CEILING GRID: INSTALL AS INDICATED ON REFLECTED CEILING PLANS OR CENTER IN ACOUSTICAL PANEL, AND SUPPORT FIXTURES INDEPENDENTLY WITH AT LEAST TWO ¾–INCH METAL CHANNELS SPANNING AND SECURED TO CEILING TEES.
- C. SUSPENDED FIXTURE SUPPORTS: AS FOLLOWS:
1. PENDANTS AND RODS: WHERE LONGER THAN 48 INCHES, BRACE TO LIMIT SWINGING.
2. STEM–MOUNTED, SINGLE–UNIT FIXTURES: SUSPEND WITH TWIN–STEM HANGERS.
3. CONTINUOUS ROWS: SUSPEND FROM CABLE.

PANELBOARDS

- A. PANELBOARDS SHALL BE SIZED AND RATED IN ACCORDANCE TO THE PANEL SCHEDULES IN THE DRAWINGS. THE BUS BARS MAY BE COPPER OR ALUMINUM. PROVIDE WITH MULTIPLE LUGS AS REQUIRED. PROVIDE A NEUTRAL TERMINAL BAR. PROVIDE A GROUND TERMINAL BAR IF GROUND CONDUCTORS ARE TERMINATED IN THE PANELBOARD. BRACE FOR 10,000 SYMMETRICAL RMS AMPERES, UNLESS OTHERWISE NOTED.
- B. HINGED FRONT COVER: ENTIRE FRONT TRIM HINGED TO BOX AND WITH STANDARD DOOR WITHIN HINGED TRIM COVER. TRIMS SHALL COVER ALL LIVE PARTS AND SHALL HAVE NO EXPOSED HARDWARE.
- C. SIZE THE ENCLOSURE TO ALLOW FOR ADEQUATE WIRE GUTTER SPACE. THE FRONT SHALL BE A SINGLE ELEMENT WITH A LOCKABLE DOOR. THE FRONT SHALL BE REMOVABLE ONLY WITH THE DOOR OPEN. A TYPED CIRCUIT DIRECTORY SHALL BE LOCATED INSIDE THE DOOR. PROVIDE KEYS. THE INTERIOR ASSEMBLY SHALL BE DEADFRONT WITH THE FRONT COVER REMOVED.
- D. MOUNT WITH THE TOP OF THE ENCLOSURE AT 80 INCHES ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED. INSTALL THE PANELBOARD INTERIORS AFTER THE ENCLOSURE HAS BEEN INSTALLED.
- E. INSTALL CIRCUIT BREAKERS IN THE ORDER SPECIFIED IN THE DRAWING PANELBOARD SCHEDULES, UNLESS APPROVAL OTHERWISE IS GRANTED. TYPE THE CIRCUIT DIRECTORY WITH CIRCUIT DESCRIPTIONS AS THEY ARE SHOWN IN THE DRAWING PANELBOARD SCHEDULES. THE DIRECTORY SHALL BE CONFIGURED IDENTICALLY WITH THE CIRCUIT BREAKER CONFIGURATION.
- F. INFRARED SCANNING: AFTER SUBSTANTIAL COMPLETION, BUT NOT MORE THAN 60 DAYS AFTER FINAL ACCEPTANCE, PERFORM AN INFRARED SCAN OF EACH SWITCH. REMOVE ALL ACCESS PANELS SO JOINTS AND CONNECTIONS ARE ACCESSIBLE TO PORTABLE SCANNER:
1. INSTRUMENT: USE AN INFRARED SCANNING DEVICE DESIGNED TO MEASURE TEMPERATURE OR TO DETECT SIGNIFICANT DEVIATIONS FROM NORMAL VALUES. PROVIDE CALIBRATION RECORD FOR DEVICE.
2. RECORD OF INFRARED SCANNING: PREPARE A REPORT THAT IDENTIFIES SWITCHES CHECKED AND THAT DESCRIBES SCANNING RESULTS. INCLUDE NOTATION OF DEFICIENCIES DETECTED, REMEDIAL ACTION TAKEN, AND OBSERVATIONS AFTER REMEDIAL ACTION.

AUGUST 2017

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

STATE OF ALASKA

DEPARTMENT OF ADMINISTRATION

Division of General Services

Facilities Section

PO Box 11210

Juneau, AK 99811-0210

ALASKA STATE OFFICE BUILDING

7TH & 8TH FLOOR RENOVATIONS

NorthWind Archtects, LLC
www.NorthWindArch.com
126 Seward Street
Juneau, AK, 99801

Haight & Associates, Inc.
526 Main Street
Juneau, AK, 99801

←1" ACTUAL→

IF THE ABOVE DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING WILL HAVE BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES.

DRAWN BY: REJ

E5.2

SPECIFICATIONS

PROJECT DESIGNATION NUMBER

2018-0222-3725

STATE	YEAR
ALASKA	2017