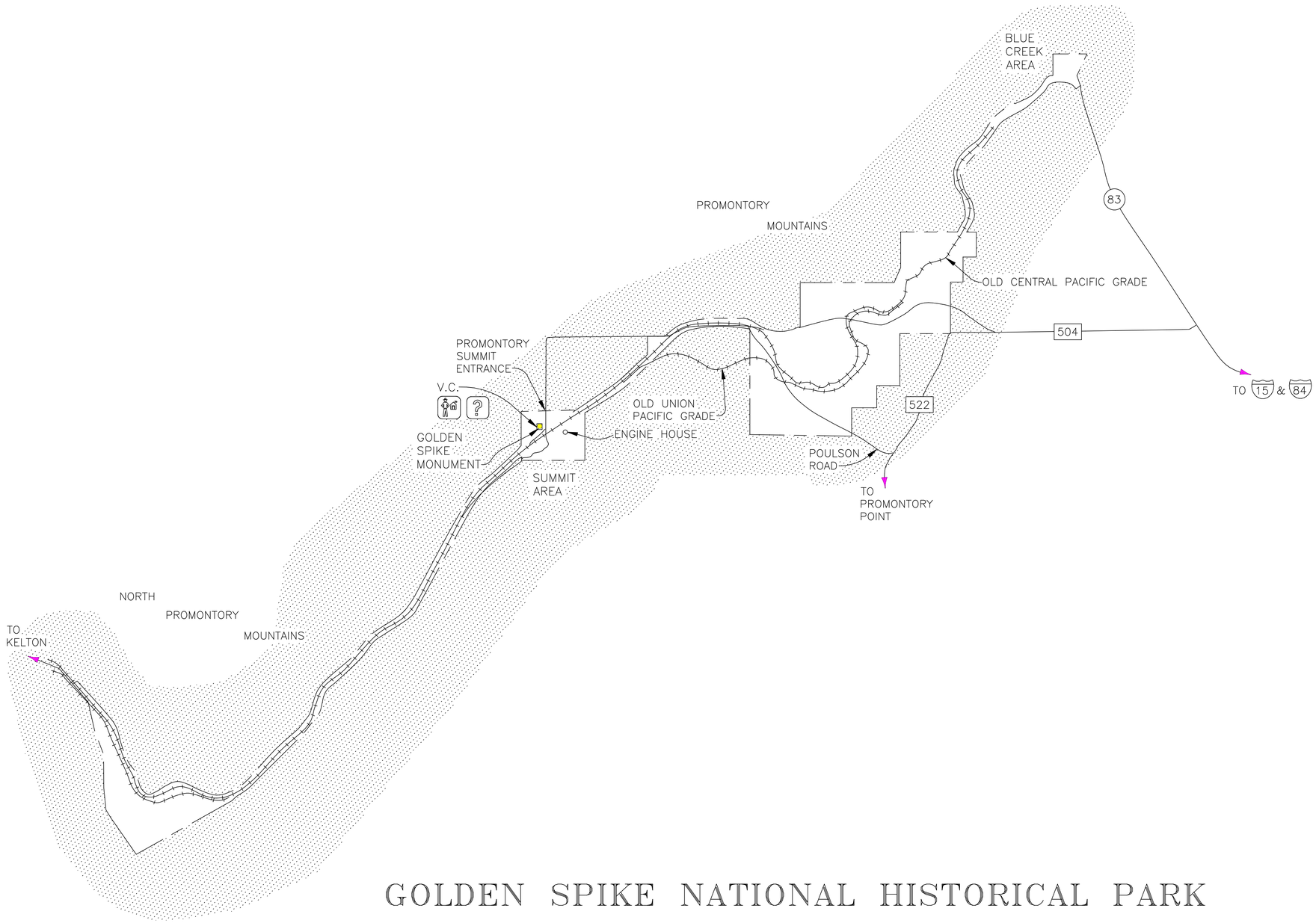

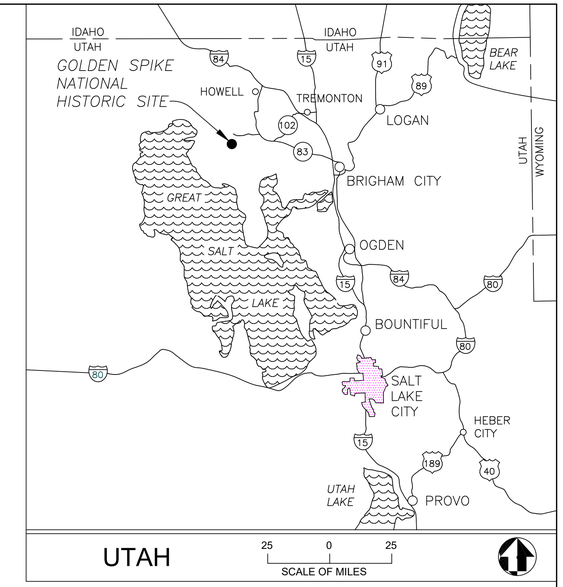

GOLDEN SPIKE NATIONAL HISTORICAL PARK

PMIS #308441

SCALE OF MILES
3 0 3 6
3 0 3 6 9
SCALE OF KILOMETERS

STATE OF UTAH
KENT R. RIGBY
No. 135096
LICENSED ARCHITECT
04/21/2023

A/E FIRM		Mark	Sheet	REVISION	Date	Initial
PRIME/ARCH:	MECHANICAL:					
AJC ARCHITECTS	SPECTRUM ENGINEERS					
SALT LAKE CITY, UTAH	SALT LAKE CITY, UTAH					
STRUCTURAL:	ELECTRICAL:					
REAVELEY ENGINEERS	SPECTRUM ENGINEERS					
SALT LAKE CITY, UTAH	SALT LAKE CITY, UTAH					

QUALITY DESIGN CERTIFICAITON

100% FINAL CD's

UNITED STATES
DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE
DENVER SERVICE CENTER

TITLE OF DRAWING
COVER SHEET
REMODEL VISITOR CENTER TO SUPPORT NEW EXHIBITS

NAME OF PARK
GOLDEN SPIKE NATIONAL HISTORICAL PARK

REGION	COUNTY	STATE
INTERMOUNTAIN	BOX ELDER	UTAH

DRAWING NO. 431 175345
PMIS/PKG NO. 308441
SHEET 1 OF 113

DRAWING INDEX

SHEET	SUB SHEET	TITLE OF SHEET
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3	G2	SYMBOLS, LEGENDS, ABBREVIATIONS
4	G3	GENERAL NOTES, LEGEND
5	G4	CODE PLAN
6	G5	CODE SUMMARY
7	G6	ACCESSIBILITY REQUIREMENTS
8	G7	ACCESSIBILITY REQUIREMENTS
9	G8	ACCESSIBILITY REQUIREMENTS
10	S1	GENERAL STRUCTURAL NOTES
11	S2	GENERAL STRUCTURAL NOTES
12	S3	LEGENDS & ABBREVIATIONS
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14	S5	TYPICAL FOOTING & FOUNDATION DETAILS
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34	A1.6	ANNOTATED FLOOR PLAN - AREA B - ADD ALTERNATE
35	A1.7	DIMENSION FLOOR PLAN - AREA B - ADD ALTERNATE
36	A1.8	FINISH FLOOR PLAN - AREA B - ADD ALTERNATE
37	A1.9	REFLECTED CEILING PLAN - AREA B - ADD ALTERNATE
38	A1.10	ANNOTATED FLOOR PLAN AND DIMENSION PLAN - AREA C
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42	A1.14	THE DESIGN MINDS EXHIBIT LAYOUT
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54	A5.1	DETAILS
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59	A5.6	DETAILS
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80	EE0.1	SHEET INDEX, ABBREVIATIONS, AND GENERAL NOTES
81	EE0.2	SYMBOL SCHEDULE
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83	DP1.1	POWER PLAN DEMO - AREA A
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86	DL1.1	LIGHTING PLAN DEMO - AREA A
87	DL1.2	LIGHTING PLAN DEMO - AREA B ADD ALTERNATE
88	DL1.3	LIGHTING PLAN DEMO - MEZZANINE
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91	ES1.1	SITE ELECTRICAL PLAN
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100	EL1.1	LIGHTING PLAN NEW - AREA A
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102	EL1.3	LIGHTING PLAN NEW - MEZZANINE
103	EL6.1	LIGHTING FIXTURE SCHEDULE
104	EL6.2	LIGHTING CONTROL SCHEDULE
105	ET1.1	TELECOM PLAN NEW - AREA A
106	ET1.2	TELECOM PLAN NEW - AREA B ADD ALTERNATE
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108	FA1.1	FIRE ALARM PLAN NEW - AREA A
109	FA1.2	FIRE ALARM PLAN NEW - AREA B ADD ALTERNATE
110	FD1.1	FIRE PROTECTION DEMO PLAN - AREA A
111	FD1.2	FIRE PROTECTION DEMO PLAN - AREA B ADD ALTERNATE
112	FP1.1	FIRE PROTECTION PLAN - AREA A
113	FP1.2	FIRE PROTECTION PLAN - AREA B ADD ALTERNATE

STATE OF UTAH
KENT R. RIGBY
No. 135096
LICENSED ARCHITECT
04/21/2023

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	A. LUSCHEN CADD A. LUSCHEN TECH. REVIEW: K. RIGBY DATE: 12/09/2022	G1	DRAWING INDEX GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 / 175345 PMIS/PKG NO. 308441 SHEET 2 OF 113

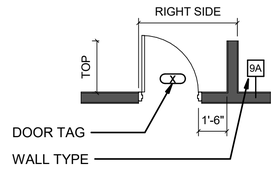
ABBREVIATIONS

ABBREV	ABBREVIATION (S)
ABB	ABBREVIATION (S)
A.F.F.	ABOVE FINISHED FLOOR
AD	ACCESS DOOR
ACOUS	ACOUSTICAL
A/C	AIR CONDITIONING
ALUM	ALUMINUM
AB	ANCHOR BOLT
APPR	APPROVED
AC	ASPHALT CONCRETE
BM	BEAM
BLK	BLOCK
BD	BOARD
BOT	BOTTOM
B.O.B.	BOTTOM OF BEAM
BLDG	BUILDING
CLG	CEILING
CH	CEILING HEIGHT
CEM	CEMENT
C/C	CENTER TO CENTER
CER	CERAMIC
CLR	CLEAR
CLOS	CLOSET
COL	COLUMN
COMPO	COMPOSITION
CONC	CONCRETE
CMU	CONCRETE MASONRY UNIT
CONN	CONNECTION
CONT	CONTINUOUS
CORD	COORDINATE
CORR	CORRIDOR
CSK	COUNTERSINK
DEL	DELETE
DEMO	DEMOLITION
DET	DETAIL
DIAG	DIAGONAL
DIA	DIAMETER
DIM	DIMENSION
DIR	DIRECTION
DR	DOOR
DO	DOOR OPENING
DBL	DOUBLE
DF	DOUGLAS FIR
DN	DOWN
DS	DOWNSPOUT
DWG	DRAWING
DF	DRINKING FOUNTAIN
EA	EACH
EWC	ELECTRIC WATER COOLER
ELEC	ELECTRICAL
ELEV OR EL	ELEVATION
ELEV	ELEVATOR
EQ	EQUAL
EQUIP	EQUIPMENT
EXIST	EXISTING
EJ	EXPANSION JOINT
EXT	EXTERIOR
FOC	FACE OF CONCRETE
FOS	FACE OF STUD
FOW	FACE OF WALL
FT	FEET
FRP	FIBER REINFORCED PLASTIC
FIN	FINISH
FF	FINISH FLOOR
FO	FINISHED OPENING
FHC	FIRE HOSE CABINET
FLR	FLOOR
FD	FLOOR DRAIN
FS	FLOOR SINK
FDN	FOUNDATION
FH	FULL HEIGHT
FS	FULL SIZE
FSD	FULL SIZE DETAIL
GALV OR GV	GALVANIZED
GA	GAUGE
GC	GENERAL CONTRACTOR
GL	GLASS
GFRC	GLASS FIBER REINFORCED CONCRETE
GR	GRADE
GYP. BD.	GYPSUM BOARD
HDWD	HARDWOOD
H	HIGH
HP	HIGH POINT
HM	HOLLOW METAL
HORIZ	HORIZONTAL
ID	INSIDE DIAMETER
INSUL	INSULATION
INT	INTERIOR
JAN	JANITOR
LAV	LAVATORY
LEV	LEVEL
LTWT	LIGHT WEIGHT
LTG	LIGHTING
MAINT	MAINTENANCE
MFG	MANUFACTURER
MO	MASONRY OPENING
MAT'L	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MB	MECHANICAL BOLT
MET	METAL
MEZZ	MEZZANINE
MIN	MINIMUM
MISC	MISCELLANEOUS
MULL	MULLION
(N)	NEW
NR	NON-RATED
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
NO.	NUMBER
OFF	OFFICE
OC	ON CENTER
OPN'G	OPENING
OCC	OPERATOR CONTROL CENTER
OPP	OPPOSITE
OH	OPPOSITE HAND
OD	OUTSIDE DIAMETER
OF	OVERFLOW
OFI	OWNER FURNISH ITEM
OFOI	OWNER FURNISHED OWNER INSTALLED
PR	PAIR
PLAS	PLASTIC
PL	PLATE
PLWD	PLYWOOD
PC	PORTLAND CEMENT
PREP	PREPARATION
PT	PRESSURE TREATED
PTDF	PRESSURE TREATED DOUGLAS FIR
PROJ	PROJECTION
QT	QUARRY TILE
REF	FREFERENCE
R OR RAD	RADIUS
REDW'D	REDWOOD
REFL	REFLECTED
RCP	REFLECTED CEILING PLAN
REINF	REINFORCE
REQ'D	REQUIRED
RES	RESILIENT
RR	RESTROOM(S)
R	RISER
RD	ROOF DRAIN
RTU	ROOF TOP UNIT
RM	ROOM
R.O.	ROUGH OPENING
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SPECS	SPECIFICATIONS
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STA	STATION
STL	STEEL
STG	STORAGE
STRUCT	STRUCTURAL
SIMUL	SUMULATED
SUSP	SUSPENDED
SYM	SYMMETRICAL
TEL	TELEPHONE
TEMP	TEMPERED
THK	THICK
T&G	TONGUE & GROOVE
TBC	TOP BACK OF CURB
T.O.C.	TOP OF CONCRETE OR CURB
T.O.F	TOP OF FOOTING
T.O.P.	TOP OF PARAPET
T.O.S.	TOP OF STEEL
T.O.W.	TOP OF WALL
TDC	TRAFFIC DECK COVERING
T	TREAD
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
V.I.F.	VERIFY IN FIELD
VER	VERTICAL
WC	WATER CLOSET
WL	WATER LEVEL
WP	WATERPROOFING
W	WIDE
W/	WITH
WD	WOOD
WP	WORKING POINT
WI	WROUGHT IRON

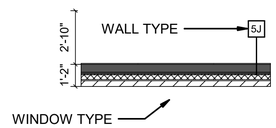
DIMENSIONING LEGEND

NEW CONSTRUCTION

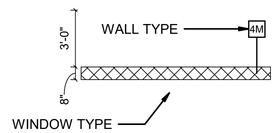
ALL NEW CONSTRUCTION IS SHOWN HATCHED & SHADED AS ILLUSTRATED BELOW.
ALL NEW CONSTRUCTION IS FULLY NOTED AS SHOWN BELOW.
ALL WORK IS NEW UNLESS LABELED "EXISTING"



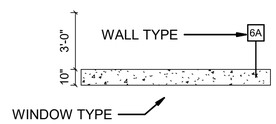
METAL OR WOOD STUD FRAMED WALL
- WALL TYPE DESIGNATES WIDTH OF WALL
- WIDTH OF WALL DIMENSIONED ONLY AT 1/4"=1' OR LARGER SCALE
- DOORS DIMENSIONED TO WIDTH OF NOMINAL OPENING
- WINDOWS DIMENSIONED TO NOMINAL FRAME SIZE - NOT ROUGH OPENING.



METAL OR WOOD STUD FRAMED WALL W/ MASONRY OR STONE VENEER
- WIDTH OF WALL DIMENSIONED FROM FACE OF MASONRY.
- WIDTH OF MASONRY WALL SIMENSIONED FROM FACE OF STUD.
- DOORS DIMENSIONED TO WIDTH OF NOMINAL OPENING.
- WINDOWS DIMENSIONED TO NOMINAL FRAME SIZE - NOT ROUGH OPENING.



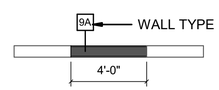
MASONRY WALL
- WIDTH OF WALL DIMENSIONED TO NOMINAL SIZE.
- DOORS DIMENSIONED TO CENTERLINE OF NOMINAL OPENING.
- WINDOWS DIMENSIONED TO NOMINAL FRAME SIZE - NOT MASONRY OPENING.



CONCRETE WALL
- ACTUAL WIDTH OF WALL DIMENSIONED
- DOORS DIMENSIONED TO CENTERLINE OF NOMINAL OPENING.
- WINDOWS DIMENSIONED TO NOMINAL FRAME SIZE - NOT ROUGH OPENING.

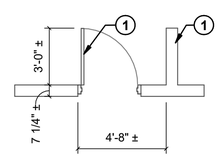
NEW CONSTRUCTION AT EXISTING

NEW CONSTRUCTION SHOWN HATCHED W/ THICKER LINE.
ALL EXISTING COMPONENTS SHOWN THIN LINE SOLID, NO HATCH.



EXISTING CONDITIONS

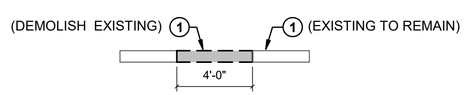
ALL EXISTING CONSTRUCTION IS SHOWN WITHOUT HATCH AS ILLUSTRATED BELOW.
ALL EXISTING CONSTRUCTION IS LABELED "EXISTING" BY KEYNOTE OR OTHERWISE.
ALL DIMENSIONS TO EXISTING ARE APPROXIMATE ONLY AND ARE TO BE FIELD VERIFIED BY THE CONTRACTOR.



EXISTING
METAL OR WOOD STUD FRAMED WALL.
- WIDTH OF WALL DIMENSIONED TO FINISHED FACE.
- DOORS DIMENSIONED TO NOMINAL DOOR SIZE EXCLUDING FRAME.
- WINDOWS DIMENSIONED TO NOMINAL FRAME SIZE.

DEMOLITION AT EXISTING

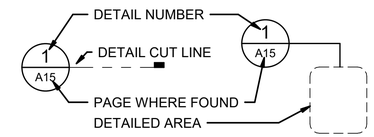
ALL EXISTING COMPONENTS SHOWN THIN LINE SOLID, NO HATCH.
ALL COMPONENTS TO BE DEMOLISHED ARE SHOWN DASHED, THICK LINE.



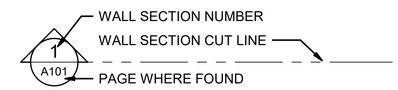
SYMBOLS

℄	CENTER LINE		WORK POINT OR ELEV. BENCH MARK
#	NUMBER	Ø	DIAMETER OR ROUND
°	DEGREE	A	GRID HEAD
&	AND		NORTH ARROW
@	AT		

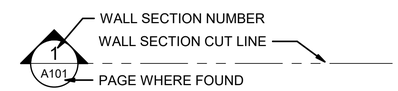
DETAIL TAGS



WALL SECTION TAG



BUILDING SECTION TAG



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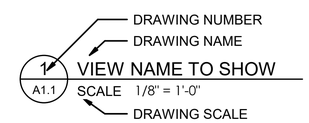
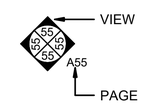
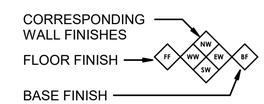


ELEVATION TAGS



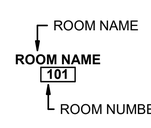
ROOM FINISH TAG



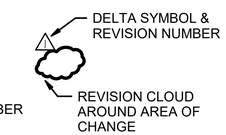
MISCELLANEOUS KEYED NOTE SYMBOLS

- AA — WINDOW/CURTAIN WALL DESIGNATION. SEE WINDOW SCHEDULE.
- ? — KEYNOTE.
- ? — GLAZING MODIFIER / GLAZING DESIGNATION.
- 101 — DOOR DESIGNATION. SEE DOOR SCHEDULE
- A1 — WALL, FLOOR, CEILING, ROOF TYPE DESIGNATION. SEE APPROPRIATE TYPE SHEETS.
- ? — WALL, FLOOR, BASE, CEILING FINISH TAG. THIS SYMBOL WHEN ATTACHED TO A WALL SHALL INDICATE THIS FINISH FOR ENTIRE LENGTH OF WALL FROM ONE INTERSECTION TO THE NEXT AND NOT BE TERMINATED BY WINDOWS OR DOORS UNO.

ROOM NAME TAG



REVISION CLOUD & TAG



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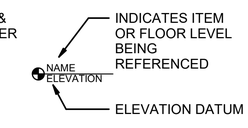


STATE OF UTAH
KENT R. RIGBY
No. 135096
LICENSED ARCHITECT
04/21/2023

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	A. LUSCHEN DRAWN A. LUSCHEN TECH. REVIEW: K. RIGBY DATE: 12/09/2022	G2	SYMBOLS, LEGENDS, ABBREVIATIONS GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 3 OF 113

GENERAL NOTES

1 THE GENERAL CONTRACTOR SHALL HEREAFTER BE REFERRED TO AS "GENERAL THE GENERAL CONTRACTOR SHALL HEREAFTER BE REFERRED TO AS "GENERAL CONTRACTOR" OR "GC". THE OWNER MAY HEREAFTER BE REFERRED TO AS "NATIONAL PARK SERVICE CONTRACTING OFFICER".CONTRACTOR" OR "GC". THE OWNER MAY HEREAFTER BE REFERRED TO AS "CONTRACTING OFFICER".

2 THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL WORK REGARDLESS OF THE LOCATION OF THE INFORMATION IN THE DOCUMENTS. THE GENERAL CONTRACTOR SHALL UTILIZE THE COMPLETE & ENTIRE CONSTRUCTION DRAWINGS AND WRITTEN SPECIFICATIONS FOR ALL REQUIRED INFORMATION TO PROVIDE COMPLETE CONSTRUCTION OF THIS PROJECT AND IS RESPONSIBLE TO COORDINATE ALL DRAWINGS AND SPECIFICATIONS WITH ALL SUBCONTRACTORS REGARDLESS OF LOCATION IN CONTRACT DOCUMENTS. ITEMS LISTED IN DRAWINGS MAY NOT BE INCLUDED IN SPECIFICATIONS. ITEMS LISTED IN SPECIFICATIONS MAY NOT BE INCLUDED IN DRAWINGS.

3 UNLESS OTHERWISE INDICATED IN THE CONSTRUCTION DOCUMENTS AS BEING NOT IN CONTRACT (N.I.C.) OR EXISTING, ALL ITEMS, MATERIALS AND INSTALLATION OF SAME ARE PART OF THE CONTRACT AS DEFINED BY THE ENTIRE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS. THE GC SHALL PROVIDE AND INSTALL ALL ACCESSORIES, COMPONENTS AND ASSEMBLIES REQUIRED FOR THE WORK DEPICTED OR SPECIFIED.

4 THE GENERAL CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO BEGINNING ANY WORK AND SHALL BE RESPONSIBLE FOR ALL WORK AND MATERIALS INCLUDING THOSE FURNISHED BY SUBCONTRACTORS. THE GC SHALL ACCEPT PREMISES AS FOUND. THE NATIONAL PARK SERVICE CONTRACTING OFFICER WILL MAINTAIN THE EXISTING CONDITION OF THE SITE AND EXISTING STRUCTURES AT THE TIME OF BIDDING.

5 DISCREPANCIES BETWEEN PORTIONS OF THE CONTRACT DOCUMENTS ARE NOT INTENDED. THE GENERAL CONTRACTOR IS TO CLARIFY WITH THE NATIONAL PARK SERVICE CONTRACTING OFFICER ANY SUCH DISCREPANCIES DURING BIDDING AND PRIOR TO COMMENCING WORK.

6 DIMENSIONS TAKE PRECEDENCE OVER DRAWINGS: DO NOT SCALE DRAWINGS TO DETERMINE ANY LOCATIONS. THE NATIONAL PARK SERVICE CONTRACTING OFFICER SHALL BE NOTIFIED OF ANY DISCREPANCY PRIOR TO CONTINUING WITH WORK. CHANGES IN THE WORK TO BE DOCUMENTED IN WRITING AND APPROVED IN WRITING PRIOR TO BEING STARTED - (IMPLEMENTED).

7 ALL PLAN DIMENSIONS ARE FROM GRIDLINE OR FACE OF STUD OR FACE OF BLOCK UNLESS OTHERWISE INDICATED. SEE DIMENSIONING LEGEND ON SHEET G2.

8 THE CONTRACTOR SHALL REPORT TO THE NATIONAL PARK SERVICE CONTRACTING OFFICER ALL CONDITIONS REQUIRING COORDINATION/ CHANGES WITH THE CONTRACT DOCUMENTS. COORDINATION / APPROVAL SHALL TAKE PLACE BEFORE THE WORK BEGINS. ALL CHANGES TO THE CONTRACT COST SHALL BE APPROVED THROUGH A CHANGE ORDER.

9 DETAILED DRAWINGS AND LARGER SCALE DRAWINGS TAKE PRECEDENCE OVER SMALL SCALE DRAWINGS.

10 THE NATIONAL PARK SERVICE CONTRACTING OFFICER WILL REVIEW SHOP DRAWINGS AND SAMPLES FOR CONFORMANCE WITH DESIGN CONCEPT OF THE PROJECT. THE NATIONAL PARK SERVICE CONTRACTING OFFICER'S REVIEW OF A SEPARATE ITEM SHALL NOT INDICATE APPROVAL OF AN ASSEMBLY IN WHICH THE ITEM FUNCTIONS. THE NATIONAL PARK SERVICE CONTRACTING OFFICER WILL NOT REVIEW SHOP DRAWINGS UNTIL THE GC HAS REVIEWED AND STAMPED THE SHOP DRAWING/SUBMITTAL. THE GC IS RESPONSIBLE FOR FIELD VERIFYING ALL DIMENSIONS SHOWN ON THE SHOP DRAWINGS. THE NATIONAL PARK SERVICE CONTRACTING OFFICER'S REVIEW OF THE SHOP DRAWINGS SHALL NOT OVERRIDE THE CONDITIONS DESCRIBED IN THE CONTRACT DOCUMENTS UNLESS SPECIFICALLY NOTED OTHERWISE BY THE NATIONAL PARK SERVICE CONTRACTING OFFICER. WORK SHALL NOT PROCEED WITHOUT RETURNED REVIEWED SUBMITTALS.

11 FOR CONSTRUCTION DETAILS NOT SHOWN, USE THE MANUFACTURER'S STANDARD DETAILS OR APPROVED SHOP DRAWINGS / DATA SHEETS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.

12 FOR GRADING, TRENCHING ETC., CONTACT THE NATIONAL PARK SERVICE CONTRACTING OFFICER FOR INSTRUCTIONS PRIOR TO THE CONTINUATION OF WORK SHOULD ANY UNUSUAL CONDITIONS BECOME APPARENT DURING GRADING OR FOUNDATION CONSTRUCTION. EXISTING ELEVATIONS AND LOCATIONS TO BE JOINED SHALL BE VERIFIED BY THE GENERAL CONTRACTOR BEFORE CONSTRUCTION.

13 ALL WORK, MATERIALS AND METHODS SHALL BE IN CONFORMANCE WITH THE CODES, ORDINANCES AND REGULATIONS OF ALL GOVERNMENTAL AGENCIES HAVING JURISDICTION AT THE PROJECT LOCATION. THE GENERAL CONTRACTOR MUST COMPLY WITH THE CONTRACTOR REGISTRATION REQUIREMENTS OF ALL GOVERNING AUTHORITIES.

14 ALL PROJECT CONSTRUCTION SHALL CONFORM WITH ABAAS ACCESSIBILITY STANDARDS.

15 THE GENERAL CONTRACTOR SHALL NOTIFY ALL APPLICABLE LOCAL GOVERNING AUTHORITIES AND UTILITIES PRIOR TO COVERING UP ANY WORK REQUIRING INSPECTION.

16 THE GENERAL CONTRACTOR SHALL MAINTAIN ALL REQUIRED EXITS AND FIRE LANES IN WORKING ORDER.

17 A GENERAL BUILDING PERMIT IS NOT REQUIRED, ALL PERMITS OR CONNECTION FEES PROVIDED BY NATIONAL PARK SERVICE.

18 THE GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL FIRE EXTINGUISHERS WHERE SHOWN ON PLAN.

19 MINIMUM FLAME SPREAD CLASSIFICATION OF INTERIOR FINISH SHALL CONFORM TO THE BUILDING CODE AND LOCAL GOVERNING BUILDING CODES/ORDINANCES. SEE CODE SUMMARY, SHEET G5.

20 THE GENERAL CONTRACTOR SHALL PROVIDE AND IS SOLELY RESPONSIBLE AND LIABLE FOR PUBLIC AND EMPLOYEE PROTECTION AS NECESSARY AND AS REQUIRED BY THE CODES, INCLUDING EXTERIOR AND INTERIOR PEDESTRIAN TRAFFIC BARRIERS. ALL WORK SHALL CONFORM TO THE ORDINANCES AND REGULATIONS OF GOVERNMENTAL AGENCIES HAVING JURISDICTION AT THE PROJECT.

21 THE GENERAL CONTRACTOR SHALL PROVIDE TEMPORARY BARRICADES FOR DUST AND NOISE CONTROL, AND ALL REQUIRED ENVIRONMENTAL PROTECTION WHERE WORK JOINS EXISTING CONDITIONS.

22 ALL DEBRIS SHALL BE REMOVED FROM PREMISES AND ALL AREAS SHALL BE LEFT IN A CLEAN (BROOM) CONDITION DAILY.

23 IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO COORDINATE AND OR CALL BLUE STAKES OF UTAH 811 TO LOCATE ALL EXISTING UTILITIES, WHETHER SHOWN HEREIN OR NOT, AND WHEN IDENTIFIED TO PROTECT THEM FROM DAMAGE. THE GENERAL CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT OF IDENTIFIED UTILITIES OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH THE EXECUTION OF THE WORK.

24 APPROVED PLANS SHALL BE KEPT IN A PLAN BOX AND SHALL NOT BE USED BY WORK CREW. ALL CONSTRUCTION SETS SHALL REFLECT THE SAME INFORMATION. THE GENERAL CONTRACTOR SHALL ALSO MAINTAIN, IN GOOD CONDITION, ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA AND CHANGE ORDERS, ON THE PREMISES AT ALL TIMES. THESE ARE TO BE KEPT UNDER THE CARE OF THE JOB SUPERINTENDENT.

25 THE GENERAL CONTRACTOR IS TO PROVIDE BLOCKING AS REQUIRED FOR MOUNTING OF WALL MOUNTED SHELVES, CABINETS, GRAB BARS AND PARTITION BRACES AND ALL OTHER ITEMS IDENTIFIED ON THE EQUIPMENT OR ACCESSORY SCHEDULE. BLOCKING SHALL BE FIRE TREATED WHERE REQUIRED BY THE BUILDING CODE.

26 THE GENERAL CONTRACTOR IS TO ASSURE THAT NO REBAR OR REINFORCEMENT IS PRESENT PRIOR TO CORE DRILLING OR PLACING BOLTS OR ANY OTHER ITEM WHICH COULD DISTURB THE STRUCTURAL SLAB OR FOUNDATION WALLS.

27 PROVIDE GALVANIC PROTECTION BETWEEN DISSIMILAR MATERIALS WHERE REQUIRED.

28 PROVIDE METAL TRIM OR CASING AT ALL EDGES OF PLASTER AND DRYWALL SURFACES WHERE IT TERMINATES OR MEETS ANY OTHER MATERIAL, UNLESS NOTED OTHERWISE.

29 PROVIDE METAL CORNER TRIM AT ALL OUTSIDE CORNERS OF PLASTER AND DRYWALL SURFACES.

30 ALL PENETRATIONS THROUGH ANY SURFACE SHALL BE THOROUGHLY SEALED WITH APPROPRIATE SEALANT MATERIAL.

31 UNLESS OTHERWISE NOTED, ALL EXTERIOR AND INTERIOR METAL, TRIM, TREILLAGE, RAILINGS, MOLDINGS, FRAMES, CASTING ETC., SHALL BE PAINTED.

32 FOR PLUMBING, FIRE SPRINKLER AND ELECTRICAL SYSTEMS, PROVIDE APPROVED ASSEMBLIES WITH SELF CLOSING DEVICES FOR ANY PENETRATIONS IN RATED CONSTRUCTION.

33 THE GC SHALL VERIFY LOCATIONS OF ALL CEILING & WALL ACCESS PANELS WITH MECHANICAL DRAWINGS, SPRINKLER AND PLUMBING PLANS. GC IS RESPONSIBLE FOR PROVIDING AS-BUILTS FOR THE FIRE ALARM DEVICE AND SPRINKLER LOCATIONS, INCLUDING DEVICES AND SPRINKLERS THAT WEREN'T ALTERED. ACCESS PANELS SHALL BE FURNISHED AND INSTALLED WITH A FIRE RATING EQUAL TO THE WALL OR CEILING ASSEMBLY INTO WHICH THEY ARE TO BE INSTALLED. FINISH AND LOCATION SHALL BE APPROVED BY THE NATIONAL PARK SERVICE CONTRACTING OFFICER.

34 THE GC SHALL VERIFY DIMENSIONS OF ALL EQUIPMENT PADS & BASES WITH EQUIPMENT MANUFACTURERS & SHALL VERIFY ALL SIZES AND LOCATIONS OF DUCT OPENINGS ON ROOF AND INTERIOR SHAFTS.

35 ANY UNEXPECTED DISRUPTION OF THE LANDSCAPE (DIGGING, DRIVING HEAVY EQUIPMENT THUS COMPACTING NATIVE SOIL, ETC.) MUST BE WITH COORDINATED THE NATIONAL PARK SERVICE CONTRACTING OFFICER. ALL PILES OF EXTRACTED SOIL MUST BE COVERED TO AVOID RUNOFF AND DISRUPTION OF LOCAL WILDLIFE IN THE CASE OF SEVERE WEATHER OR STORM.

36 GENERAL CONTRACT SHOULD BE FAMILIAR WITH THE EXHIBIT DESIGN AND DRAWINGS.

37 GENERAL CONTRACTOR TO INSULATE ATTICE AREAS THAT WERE NOT ACCESSIBLE DURING RECENT ROOF REPLACEMENT PROJECT WITH R30 INSULATION EQUIVALENT WITH MINERAL WOOL INSULATION.

SECTION MATERIALS LEGEND (NOT ALL SYMBOLS MAY BE USED)

- METAL
- EARTH
- CONCRETE
- CONCRETE MASONRY UNIT
- CONTINUOUS WOOD MEMBER
- WOOD BLOCKING
- PLASTER OR STUCCO
- FINISHED WOOD MEMBER
- PLYWOOD
- BATT INSULATION
- GYP. BOARD
- MINERAL WOOL INSULATION
- GRAVEL
- RIGID INSULATION

SCOPE OF WORK:

REMODEL OF GOLDEN SPIKE NATIONAL HISTORICAL PARK VISITOR CENTER

DEFERRED SUBMITTALS:

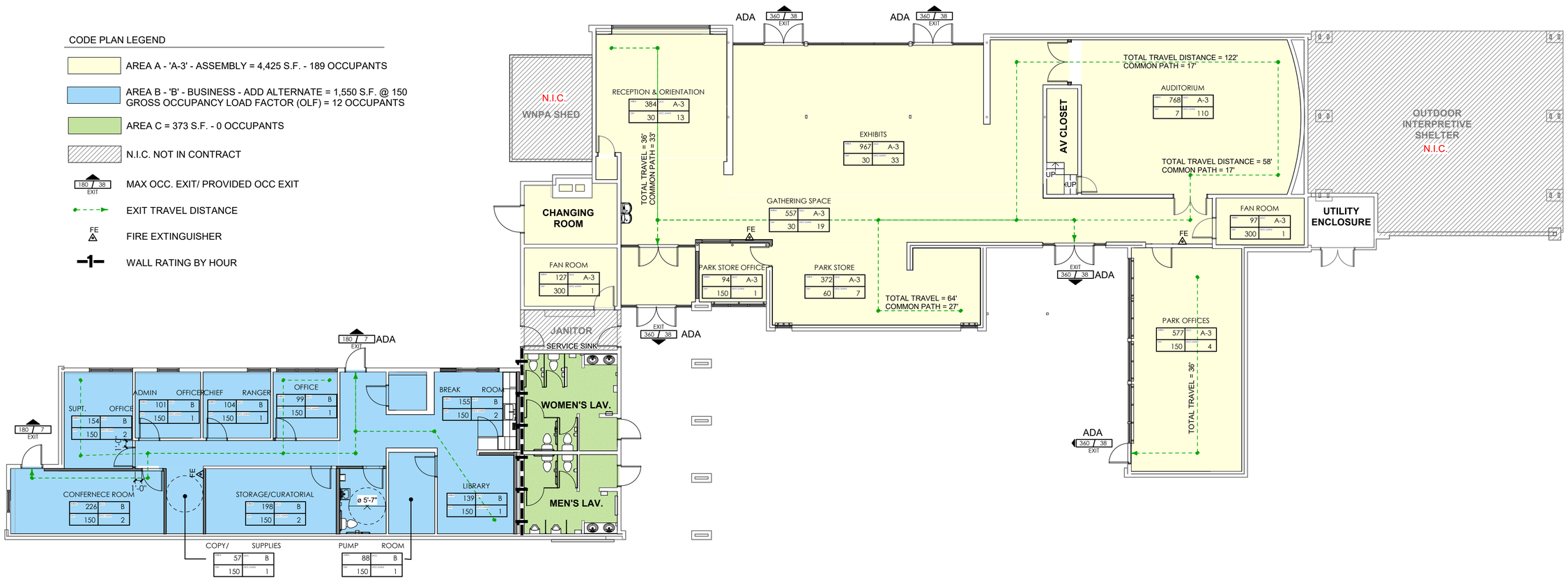
ALUMINUM STOREFRONT SYSTEM
FIRE ALARM SYSTEM
FIRE SPRINKLER SYSTEM
ASSA ABLOY CHANNEL PICTURE WINDOW FRAME & GLAZING

STATE OF UTAH
KENT R. RIGBY
No. 135096
LICENSED ARCHITECT
04/21/2023

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	A. LUSCHEN CADD A. LUSCHEN TECH. REVIEW: K. RIGBY DATE: 12/09/2022	G3	GENERAL NOTES, LEGEND GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 4 OF 113

CODE PLAN LEGEND

- AREA A - 'A-3' - ASSEMBLY = 4,425 S.F. - 189 OCCUPANTS
- AREA B - 'B' - BUSINESS - ADD ALTERNATE = 1,550 S.F. @ 150 GROSS OCCUPANCY LOAD FACTOR (OLF) = 12 OCCUPANTS
- AREA C = 373 S.F. - 0 OCCUPANTS
- N.I.C. NOT IN CONTRACT
- 180 / 38 EXIT — MAX OCC. EXIT/ PROVIDED OCC EXIT
- EXIT TRAVEL DISTANCE
- FE — FIRE EXTINGUISHER
- 1 — WALL RATING BY HOUR



1 / G4 CODE PLAN
SCALE 1/8" = 1'-0"

8 0 8 16
SCALE OF FEET

STATE OF UTAH — KENT R. RIGBY No. 135096 — LICENSED ARCHITECT
04/21/2023

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AJC ARCHITECTS SALT LAKE CITY, UT 84104	A. LUSCHEN CADD A. LUSCHEN TECH. REVIEW: K. RIGBY DATE: 12/09/2022	G4	CODE PLAN GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 5 OF 113

CODE ANALYSIS

BUILDING CODES

INTERNATIONAL BUILDING CODE (IBC)	2021
INTERNATIONAL FIRE CODE (IFC)	2021
INTERNATIONAL MECHANICAL CODE (IMC)	2021
INTERNATIONAL PLUMBING CODE (IPC)	2021
NATIONAL ELECTRICAL CODE (NEC)	2020
INTERNATIONAL FUEL GAS CODE	2021
INTERNATIONAL ENERGY CONSERVATION CODE	2021
INTERNATIONAL EXISTING BUILDING CODE	2021
ARCHITECTURAL BARRIERS ACT ACCESSIBILITY STANDARDS (ABAAS)	2015

OCCUPANCY CLASSIFICATION – IBC CHAPTER 3
- 'A' - ASSEMBLY GROUP A-3
- 'B' - BUSINESS

TYPE OF CONSTRUCTION – IBC CHAPTER 6
TYPE V-B SPRINKLED

AUTOMATIC SPRINKLER SYSTEM – IBC SECTION 903.3.1.1
NFPA 13

ALLOWABLE BUILDING HEIGHT – IBC CHAPTER 5, TABLE 504.3
EXISTING: NO CHANGE

TYPE V-B	A-3	
ALLOWED:	60	FEET
ACTUAL:	20 ±	FEET

TYPE V-B	B	
ALLOWED:	60	FEET
ACTUAL:	14	FEET

ALLOWABLE STORIES ABOVE GRADE PLANE – IBC CHAPTER 5, TABLE 504.4
EXISTING: NO CHANGE

TYPE V-B	A-3	
ALLOWED:	2	STORIES
ACTUAL:	1	STORIES
TYPE V-B	B	
ALLOWED:	3	STORIES
ACTUAL:	1	STORIES

ALLOWABLE BUILDING AREA – IBC CHAPTER 5, TABLE 506.2
EXISTING: NO CHANGE

TYPE V-B	A-3	
ALLOWED:	22,000	S.F.
ACTUAL:	4,425 ±	S.F.
TYPE V-B	B	
ALLOWED:	36,000	S.F.
ACTUAL:	1,550 ±	S.F.
SF NIC	1,589	
TOTAL BUILDING SF	7,700	

OCCUPANCY SEPARATIONS – IBC TABLE 508.4
'A-3' TO 'B' - 1 HOUR RATED BARRIER

FIRE RESISTIVE REQUIREMENTS – IBC CHAPTER 6, TABLE 601

	TYPE V - B	
STRUCTURAL FRAME	0.0	HOUR RATING
EXTERIOR	0.0	HOUR RATING
INTERIOR	0.0	HOUR RATING
EXTERIOR NONBEARING WALLS	0.0	HOUR RATING
INTERIOR NONBEARING WALLS	0.0	HOUR RATING
FLOOR (INC. SUPPORTING BEAM & JOISTS)	0.0	HOUR RATING
ROOF (INC. SUPPORTING BEAM & JOISTS)	0.0	HOUR RATING

CORRIDORS – IBC TABLE 1020.2;

	SPRINKLED
'A' – ASSEMBLY	0 HRS
'B' BUSINESS	0 HRS

TRAVEL DISTANCE – IBC TABLE 1017.2

	SPRINKLED
'A' – ASSEMBLY	250 FEET
'B' BUSINESS	300 FEET

EXIT SEPARATION – IBC SECTION 1007.1.1
SEPARATION OF EXITS SHALL BE 1/2 THE LENGTH OF THE MAXIMUM DIAGONAL DIMENSION.
EXCEPTION 2: SEPARATION OF EXITS SHALL BE 1/3 THE LENGTH OF THE MAXIMUM DIAGONAL DIMENSION.

COMMON PATH OF EGRESS TRAVEL (Space) – IBC Table 1006.2.1

	SPRINKLED
'A' – ASSEMBLY GROUP A-3	75 FEET
'B' BUSINESS	100 FEET

NUMBER OF REQUIRED EXITS – IBC TABLE 1006.2.1

	REQUIRED	PROVIDED
EXITS REQUIRED PER STORY	2	6 w/ (4) ACCESSIBLE

OCCUPANCY LOADS – IBC TABLE 1004.5

ASSEMBLY MUSEUM /EXHIBIT AREA	1/30 NET
OFFICES	1/150 GROSS
STORAGE, UTILITY SPACES, ETC.	1/300 GROSS

TOTAL OCCUPANTS	189	A-3
	14	B

EGRESS WIDTH per PERSON SERVED - IBC 1005.3
'A' - ASSEMBLY GROUP A-3

		REQUIRED	PROVIDED
OTHER	0.2 IN/OC	37.8 INCHES	360 INCHES

'B' - BUSINESS

		REQUIRED	PROVIDED
OTHER	0.2 IN/OC	2.4 INCHES	72 INCHES

MINIMUM CORRIDOR WIDTHS – IBC TABLE 1020.3

		REQUIRED	PROVIDED
STANDARD WIDTH	'A-3'	44 INCHES	80 INCHES
STANDARD WIDTH	'B'	44 INCHES	46 INCHES

DEAD END CORRIDORS – IBC SECTION 1020.5
50 FEET - SPRINKLED

PORTABLE FIRE EXTINGUISHERS: SECTION 906
MAXIMUM DISTANCE OF TRAVEL TO EXTINGUISHER 75 FEET

INTERIOR WALL AND CEILING FINISH – IBC TABLE 803.13

	A-3	B
CORRIDORS	CLASS 'B'	CLASS 'C'
ROOMS AND ENCLOSED SPACES	CLASS 'C'	CLASS 'C'

ACCESSIBLE – IBC CHAPTER 11
ACCESSIBLE ROUTE 1104.1: AT LEAST ONE ACCESSIBLE ROUTE WITHIN THE SITE PROVIDED FROM ACCESSIBLE PARKING, ACCESSIBLE PASSENGER LOADING ZONE OR SIDEWALK TO THE ACCESSIBLE BUILDING ENTRANCE.
ACCESSIBLE PARKING: TABLE 1106.1 (1 PER 25) PARKING STALLS; (2 PER 26 TO 50) PARKING STALLS.

VAN SPACES 1106.5: FOR EVERY 6 OR FRACTION OF 6 ACCESSIBLE PARKING SPACES, AT LEAST 1 SHALL BE A VAN-ACCESSIBLE SPACE. PARKING STALL WIDTH = 11 FT. WITH AISLE OF 5 FEET. THE ACCESSIBLE STALL AND AISLE CAN NOT SLOPE MORE THAN 2% (1:48).

ACCESSIBLE ENTRANCES 1105.1: AT LEAST 60 % OF ALL PUBLIC ENTRANCES SHALL BE ACCESSIBLE.
IBC SECTION 1109.2 – EACH TOILET ROOM AND BATHING ROOM SHALL BE ACCESSIBLE.
IBC SECTION 1109.2.2 – EACH RESTROOM WILL NEED TO HAVE 5% (AT LEAST ONE) ACCESSIBLE WATER CLOSET.
IBC SECTION 1109.3 – EACH RESTROOM WILL NEED TO HAVE 5% (AT LEAST ONE) ACCESSIBLE SINK.
IBC SECTION 1111.1 – REQUIRED ACCESSIBLE ELEMENTS SHALL BE IDENTIFIED USING THE INTERNATIONAL SYMBOLS OF ACCESSIBILITY.

ROOF - IBC CHAPTER 15
MINIMUM ROOF COVERING CLASSIFICATION - TABLE 1505.1

TYPE V - B	CLASS C	REQUIRED
	CLASS B	PROVIDED

BUILDING ENVELOPE REQUIREMENTS - IECC C402
CLIMATE ZONE 5

OPAQUE THERMAL ELEMENTS iecc TABLE C402.1.3

	INSULATION MIN. R-VALUE
ROOFS	R-49
WALLS	
ABOVE GRADE	R-13 + R-7.5 ci
BELOW GRADE	N/A
FLOORS	N/A
SLABS ON GRADE	R-10 for 24" BELOW

ENVELOPE FENESTRATIONS (IECC TABLE C402.4)

	MAX U-FACTOR	SHGC SEW/N
WINDOWS		
FIXED	0.38	0.38/0.51
OPERABLE	0.45	0.38/0.52
ENTRANCE DOORS	0.77	0.38/0.53

PLUMBING FIXTURE REQUIREMENTS – IBC CHAPTER 29

REQUIRED: A-3 & B

WATER CLOSET		LAVATORIES		TUBS / SHOWERS	D.F.	OTHER
MEN	WOMEN	MEN	WOMEN			SERVICE SINK
1	2	1	1	0	2	1

PROVIDED: A-3

WATER CLOSET		LAVATORIES		TUBS / SHOWERS	D.F.	OTHER
MEN	WOMEN	MEN	WOMEN			SERVICE SINK
4	4	2	2	0	2	1

PROVIDED: B
ONE UNI-SEX RESTROOM PROVIDED AS PER 2902.2 EXCEPTION 4.

ROOM SCHEDULE

Occupancy	Name	Level	Number	Area	Occupancy Load Factor	Occupant Load
A-3						
A-3	ACCESS SHAFT	LEVEL 1	101A	11 SF	0	
A-3	AUDITORIUM	LEVEL 1	107	768 SF	7	110
A-3	AV CLOSET	LEVEL 1	107A	78 SF	0	
A-3	CHANGING ROOM	LEVEL 1	115	135 SF	50	3
A-3	ENTRY	LEVEL 1	100	101 SF	0	
A-3	EXHIBITS	LEVEL 1	102	967 SF	30	33
A-3	FAN ROOM	LEVEL 1	110	127 SF	300	1
A-3	FAN ROOM	LEVEL 1	108	97 SF	300	1
A-3	GATHERING SPACE	LEVEL 1	103	557 SF	30	19
A-3	HALL	LEVEL 1	106	129 SF	0	
A-3	HALL	LEVEL 1	105	177 SF	0	
A-3	PARK OFFICES	LEVEL 1	109	577 SF	150	4
A-3	PARK STORE	LEVEL 1	104	372 SF	60	7
A-3	PARK STORE OFFICE	LEVEL 1	104A	94 SF	150	1
A-3	RECEPTION & ORIENTATION	LEVEL 1	101	384 SF	30	13
					TOTAL	192

ROOM SCHEDULE

Occupancy	Name	Level	Number	Area	Occupancy Load Factor	Occupant Load
B						
B	ADMIN OFFICER	LEVEL 1	124	101 SF	150	1
B	BREAK ROOM	LEVEL 1	113	155 SF	150	2
B	CHIEF RANGER	LEVEL 1	122	104 SF	150	1
B	CONFERNECE ROOM	LEVEL 1	125	226 SF	150	2
B	COPY/ SUPPLIES	LEVEL 1	123	57 SF	150	1
B	HALL	LEVEL 1	116	124 SF	150	1
B	IT	LEVEL 1	118	34 SF	150	1
B	LAV	LEVEL 1	119	71 SF	150	1
B	LIBRARY	LEVEL 1	114	139 SF	150	1
B	OFFICE	LEVEL 1	120	99 SF	150	1
B	PUMP ROOM	LEVEL 1	117	88 SF	150	1
B	STORAGE/CURATORIAL	LEVEL 1	121	198 SF	150	2
B	SUPT. OFFICE	LEVEL 1	126	154 SF	150	2
					TOTAL	17
NIC						
NIC	HALL	LEVEL 1	115	138 SF	0	
NIC	JANITOR	LEVEL 1	111	88 SF	0	
NIC	OUTDOOR INTERPRETIVE SHELTER	LEVEL 1	134	990 SF	0	
					TOTAL	0
U						
U	MEN'S LAV.	LEVEL 1	112	168 SF	0	
U	WOMEN'S LAV.	LEVEL 1	111	206 SF	0	
					TOTAL	0

STATE OF UTAH
KENT R. RIGBY
No. 135096
LICENSED ARCHITECT
04/21/2023

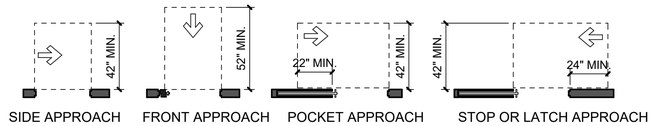
A/E FIRM
AJC ARCHITECTS
SALT LAKE CITY, UT 84104

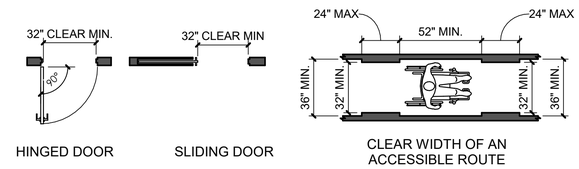
DESIGNED: A. LUSCHEN
CADD A. LUSCHEN
TECH. REVIEW: K. RIGBY
DATE: 12/09/2022

SUB SHEET NO. G5

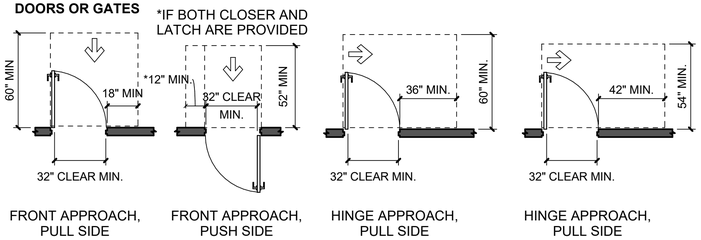
TITLE OF DRAWING
CODE SUMMARY
GOLDEN SPIKE NATIONAL HISTORICAL PARK

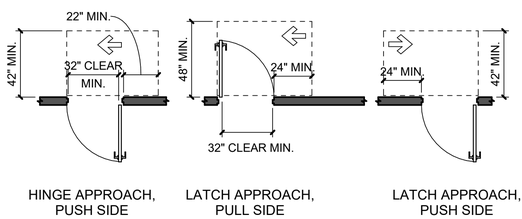
DRAWING NO. 431 175345
PMIS/PKG NO. 308441
SHEET 6 OF 113





MANUEVERING CLEARANCES AT SLIDING AND FOLDING DOORS AND FOR DOORWAYS WITHOUT DOORS OR GATES

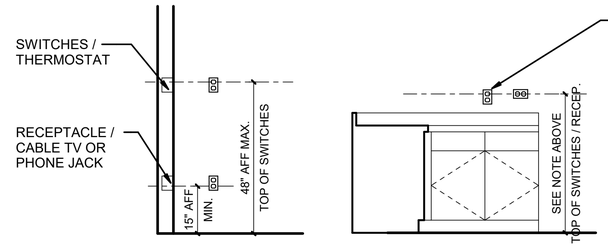




MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS

CODE REFERENCED:
01. ANSI 403 WALKING SURFACES
  A. ANSI 403.5.1 CLEAR WIDTH
02. ANSI 404 DOORS, DOORWAYS AND GATES
  A. ANSI 404.2 MANUAL DOORS, DOORWAYS AND MANUAL GATES
    i. ANSI 404.2.2 CLEAR WIDTH
    ii. ANSI 404.2.3 MANEUVERING CLEARANCES
    iii. ANSI 404.2.3.2 SWINGING DOORS AND GATES

1 G6 ACCESSIBLE DOOR CLEAR. REQUIREMENTS
SCALE 1/4" = 1'-0"

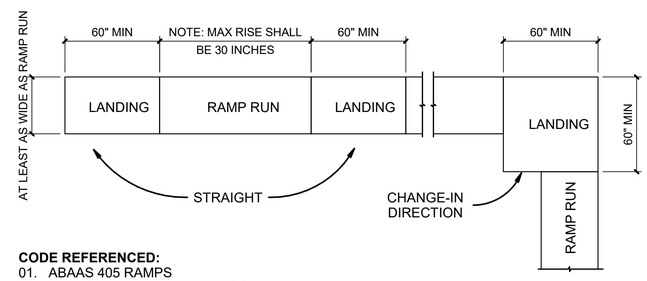


48" AFF MAX. WHEN COUNTER/OBSTACLE IS A DEPTH OF 20" MAX. (MEASUREMENTS GO TO T.O. SWITCH OR OUTLET PLUG)

44" AFF MAX. WHEN COUNTER/OBSTACLE IS A DEPTH OF 20"-25" MAX. (MEASUREMENTS GO TO T.O. SWITCH OR OUTLET PLUG)

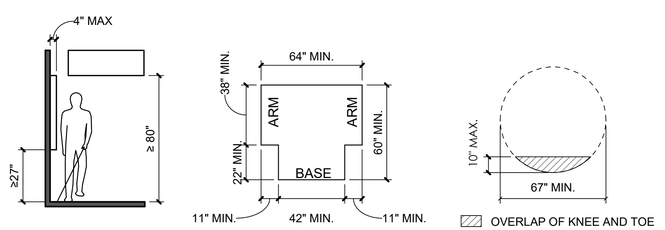
CODE REFERENCED:
01. ANSI 305 CLEAR FLOOR SPACE
02. ABAAS 308 REACH RANGES
  A. ABAAS 308.2 FORWARD REACH
    i. ABAAS 308.2.2 OBSTRUCTED HIGH REACH

3 G6 ACCESSIBLE CONTROL AND OUTLET HEIGHTS
SCALE 1/2" = 1'-0"



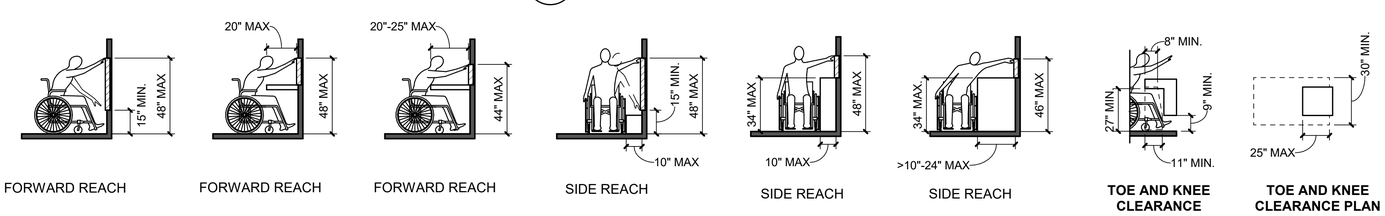
CODE REFERENCED:
01. ABAAS 405 RAMPS
02. ABAAS 405.7 RAMP LANDINGS

4 G6 ACCESSIBLE RAMP LANDINGS
SCALE 1/4" = 1'-0"



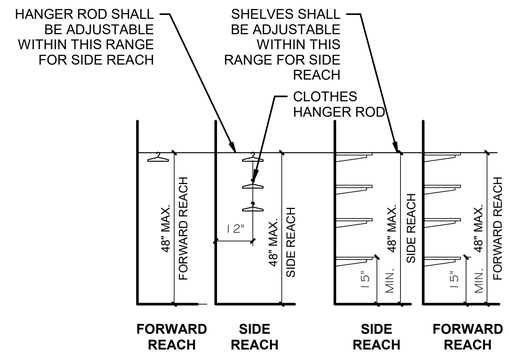
CODE REFERENCED:
01. ANSI CH 3 BUILDING BLOCKS

5 G6 ACCESSIBLE CLEAR SPACE
SCALE 1/4" = 1'-0"



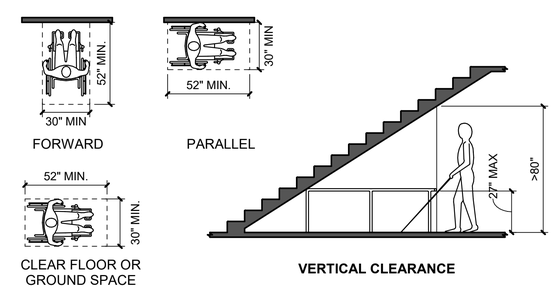
CODE REFERENCED:
01. ABAAS CH 3 BUILDING BLOCKS

2 G6 ACCESSIBLE REACH, TOE, AND KNEE CLEARANCES
SCALE 1/4" = 1'-0"



CODE REFERENCED:
01. ABAAS 308.2 FORWARD REACH
02. ABAAS 308.3 SIDE REACH

6 G6 ACCESSIBLE CLOSET MOUNTING HEIGHTS
SCALE 1/2" = 1'-0"



GENERAL NOTES:

REFER TO DOOR HARDWARE SPECIFICATIONS FOR DOOR HARDWARE ABAAS REQUIREMENTS AND STANDARDS.

ACCESSIBLE DOOR OPENERS TO BE HARDWIRED TO AVOID INTERMITTENT BATTERY REPLACEMENT.

REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL DEVICES ABAAS MOUNTING HEIGHT REQUIREMENTS.

REFER TO SITE PLAN FOR ACCESSIBLE ROUTE REQUIREMENTS AND DETAIL REFERENCES. (NOT APPLICABLE TO ALL PROJECTS.)

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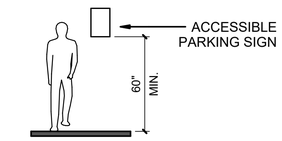
MOUNTING HEIGHTS OF RESTROOM FIXTURES AND ACCESSORIES. PROVIDE BACKING AT ALL WALL MOUNTED FIXTURES AND EQUIPMENT.

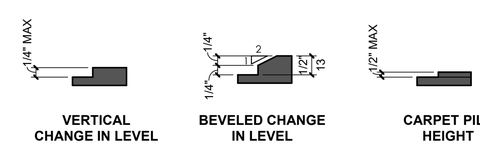


ACCESSIBLE PARKING SIGN MOUNTING HEIGHT

CODE REFERENCED:

1. ANSI 502.7, ADA ADVISORY VERTICAL CLEARANCE
02. ANSI 703, SIGNS
03. ABAAS 502.3.1 WIDTH
04. ABAAS 502.3.2 LENGTH
05. ABAAS 502.3.3 MARKING: ADVISORY 502.3.3 MARKING. THE METHOD AND COLOR OF MARKING ARE NOT SPECIFIED BY THESE REQUIREMENTS BUT MAY BE **ADDRESSED BY STATE OR LOCAL LAWS OR REGULATIONS**. BECAUSE THESE REQUIREMENTS PERMIT THE VAN ACCESS AISLE TO BE AS WIDE AS A PARKING SPACE, IT IS IMPORTANT THAT THE AISLE BE CLEARLY MARKED.

7 G6 ACCESSIBLE PARKING SIGNAGE
SCALE 1/4" = 1'-0"



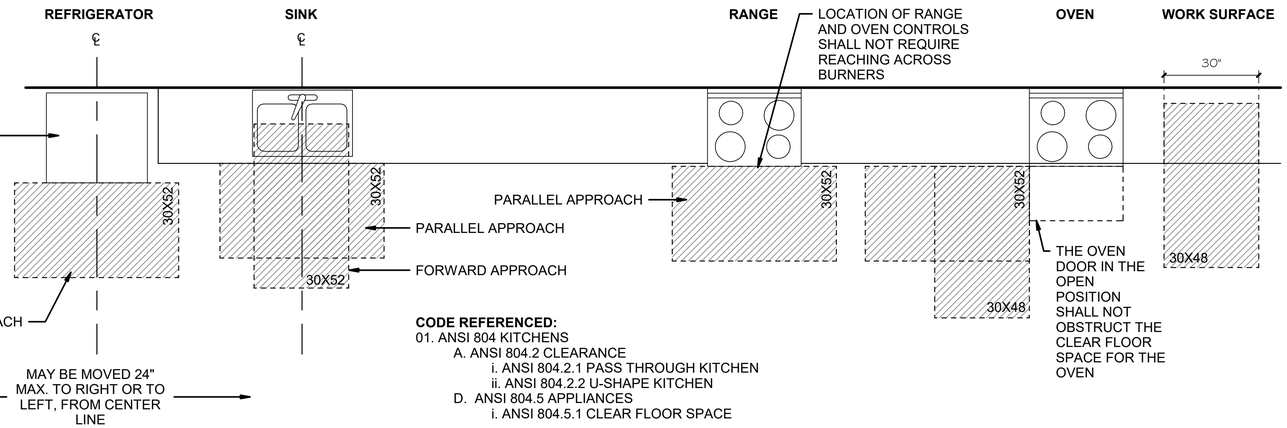
CODE REFERENCED:
01. ABAAS 303 CHANGES IN LEVEL

8 G6 ACCESSIBLE LEVEL CHANGE
SCALE 6" = 1'-0"

STATE OF UTAH
KENT R. RIGBY
No. 135096
LICENSED ARCHITECT
04/21/2023

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	A. LUSCHEN CADD A. LUSCHEN TECH. REVIEW: K. RIGBY DATE: 12/09/2022	G6	ACCESSIBILITY REQUIREMENTS GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 7 OF 113

COMBINATION REFRIGERATORS AND FREEZERS SHALL HAVE AT LEAST 50 PERCENT OF THE FREEZER SPACE 54 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. THE CLEAR FLOOR OR GROUND SPACE SHALL BE POSITIONED FOR A PARALLEL APPROACH TO THE SPACE DEDICATED TO A REFRIGERATOR/FREEZER WITH THE CENTERLINE OF THE CLEAR FLOOR OR GROUND SPACE OFFSET 24 INCHES (610 MM) MAXIMUM FROM THE CENTERLINE OF THE DEDICATED SPACE.



CODE REFERENCED:
01. ANSI 804 KITCHENS
  A. ANSI 804.2 CLEARANCE
    i. ANSI 804.2.1 PASS THROUGH KITCHEN
    ii. ANSI 804.2.2 U-SHAPE KITCHEN
  D. ANSI 804.5 APPLIANCES
    i. ANSI 804.5.1 CLEAR FLOOR SPACE

NOTES FOR SINK AND WORK SURFACES

1. A CLEAR FLOOR SPACE POSITION FOR FORWARD APPROACH TO THE WORK SURFACE SHALL BE PROVIDED, KNEE AND TOE CLEARANCE SHALL BE PROVIDED.

2. CABINETRY SHALL BE PERMITTED TO BE ADDED UNDER THE SINK AND WORK SURFACE, PROVIDED SUCH CABINETRY CAN BE REMOVED WITHOUT REMOVAL OR REPLACEMENT OF THE WORK SURFACE, THE FLOOR FINISH EXTENDS UNDER SUCH CABINETRY, AND THE WALLS BEHIND AND SURROUNDING CABINETRY ARE FINISHED.

3. THE SINK AND WORK SURFACE SHALL BE 34" MAX. ABOVE THE FLOOR.

4. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER THE SINK AND WORK SURFACE COUNTERS.

GENERAL NOTES:

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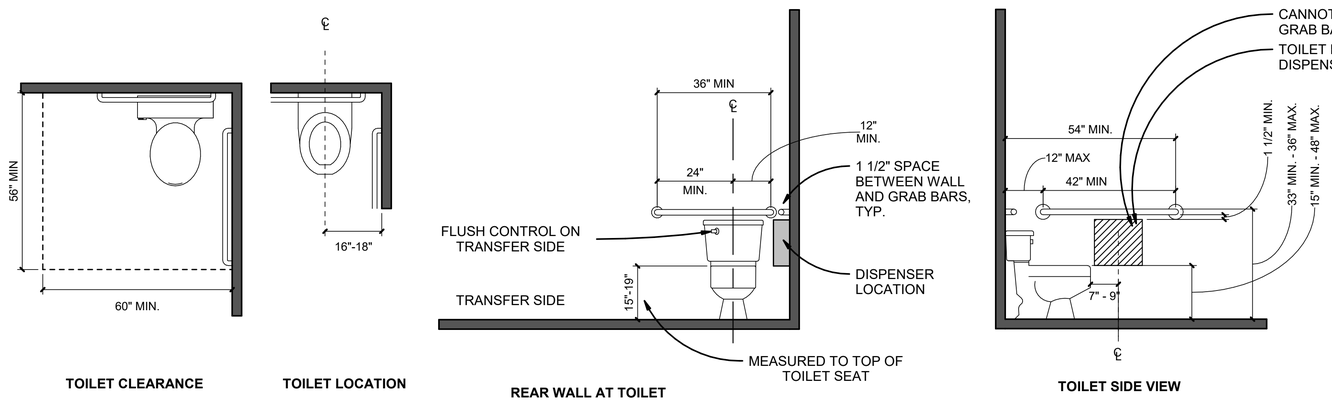
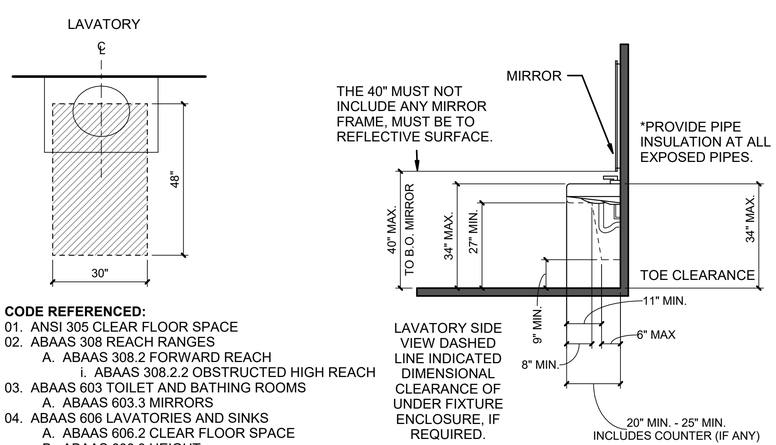
MOUNTING HEIGHTS OF RESTROOM FIXTURES AND ACCESSORIES. PROVIDE BACKING AT ALL WALL MOUNTED FIXTURES AND EQUIPMENT.

1 / G7 ACCESSIBLE KITCHEN CLEARANCES
SCALE 1/2" = 1'-0"



CODE REFERENCED:
01. ABAAS 603 TOILET & BATHING ROOMS
02. ABAAS 604 WATER CLOSETS & TOILET COMPT.'S
  A. ABASS 604.2 LOCATION
  B. ABAAS 604.3 CLEARANCE
    i. ABAAS 604.3.2 OVERLAP
  C. ABAAS 604.4 SEATS, EXCEPTION #2
  D. ABBAAS 604.5 GRAB BARS
    i. ABAAS 604.5.1 SIDE WALL
    ii. ABAAS 604.5.2 REAR WALL
  E. ABAAS 604.6 FLUSH CONTROLS
  F. ABAAS 604.7 DISPENSERS
03. ABAAS 609 GRAB BARS

2 / G7 ACCESSIBLE TOILET CLEAR.'S & GRAB BARS
SCALE 1/2" = 1'-0"



CODE REFERENCED:
01. ANSI 305 CLEAR FLOOR SPACE
02. ABAAS 308 REACH RANGES
  A. ABAAS 308.2 FORWARD REACH
    i. ABAAS 308.2.2 OBSTRUCTED HIGH REACH
03. ABAAS 603 TOILET AND BATHING ROOMS
  A. ABAAS 603.3 MIRRORS
04. ABAAS 606 LAVATORIES AND SINKS
  A. ABAAS 606.2 CLEAR FLOOR SPACE
  B. ABAAS 606.3 HEIGHT

3 / G7 ACCESSIBLE LAVATORY CLEARANCE
SCALE 1/2" = 1'-0"

STATE OF UTAH
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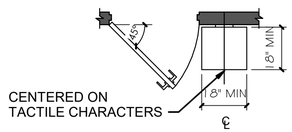
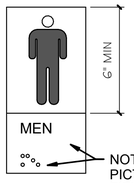
INTERNATIONAL SYMBOL FOR ACCESS FOR HEARING IMPAIRED

INTERNATIONAL SYMBOL OF ACCESSIBILITY

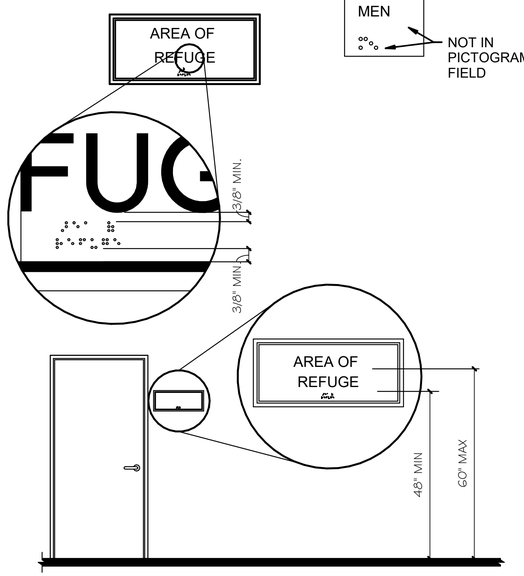
VOLUME CONTROL

INTERNATIONAL TDD SYMBOL





NOT IN PICTOGRAM FIELD



DOOR SIGNAGE

LETTERS AND NUMBERS:

1. LETTERS AND NUMBERS ON SIGNS SHALL BE RAISED 1/32" MINIMUM AND SHALL BE SANS-SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2 BRAILLE. (ABAAS 703.2.1 DEPTH)
2. MIN. CHARACTER HEIGHT: 5/8". MAX. CHARACTER HEIGHT: 2".
3. PICTORIAL SYMBOL SIGNS (PICTOGRAMS) SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. PICTOGRAMS SHALL HAVE A FIELD HEIGHT OF 6 INCHES MINIMUM. CHARACTERS AND BRAILLE SHALL NOT BE LOCATED IN THE PICTOGRAM FIELD. (ABAAS 703.6)
4. CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 55 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I". (ABAAS 703.5.4 CHARACTER PROPORTIONS)
5. PICTOGRAMS AND THEIR FIELD SHALL HAVE A NON-GLARE FINISH. PICTOGRAMS SHALL CONTRAST WITH THEIR FIELD WITH EITHER A LIGHT PICTOGRAM ON A DARK FIELD OR A DARK PICTOGRAM ON A LIGHT FIELD. (ABAAS 703.6.2 FINISH AND CONTRAST)
6. CHARACTERS AND NUMBERS ON SIGNS SHALL BE SIZED ACCORDING TO THE VIEWING DISTANCE FROM WHICH THEY ARE TO BE READ. THE MINIMUM HEIGHT IS MEASURED USING AN UPPER CASE "I". LOWER CASE CHARACTERS ARE PERMITTED. REFER TO ABAAS TABLE 703.5.5 VISUAL CHARACTER HEIGHT FOR MINIMUM CHARACTER HEIGHTS.
7. CONTRACTED GRADE 2 BRAILLE SHALL BE USED WHEREVER BRAILLE SYMBOLS ARE SPECIFICALLY REQUIRED IN OTHER PORTIONS OF THESE REGULATIONS. REFER TO ABAAS TABLE 703.3.1 BRAILLE DIMENSIONS FOR ACCEPTABLE LAYOUT AND SPACING OF BRAILLE CHARACTERS.

SIGN LOCATIONS:

1. ALL BUILDING ENTRANCES THAT ARE ACCESSIBLE TO AND USABLE BY PERSONS WITH DISABILITIES AND AT EVERY MAJOR JUNCTION ALONG OR LEADING TO AN ACCESSIBLE ROUTE OF TRAVEL SHALL BE IDENTIFIED WITH A SIGN DISPLAYING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AND WITH ADDITIONAL DIRECTIONAL SIGNS, AS REQUIRED, TO BE VISIBLE TO PERSONS ALONG APPROACHING PEDESTRIAN WAYS.
2. WHEN PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES, RAISED LETTERS SHALL BE PROVIDED AND SHALL BE ACCOMPANIED BY BRAILLE IN CONFORMANCE WITH SECTION ABAAS 703.3 BRAILLE. WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18 INCHES MINIMUM BY 18 INCHES MINIMUM, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION. EXCEPTION: SIGNS WITH TACTILE CHARACTERS SHALL BE PERMITTED ON THE PUSH SIDE OF DOORS WITH CLOSERS AND WITHOUT HOLD-OPEN DEVICES.
3. ADDITIONAL DIRECTIONAL SIGNS ALONG ACCESSIBLE PATH OF TRAVEL ARE REQUIRED.
4. BUILDINGS REMODELED TO PROVIDE ACCESSIBLE SANITARY FACILITIES FOR PUBLIC USE SHALL HAVE INFORMATION POSTED IN THE LOBBY AS PART OF THE BUILDING DIRECTORY.

INTERNATIONAL SYMBOL OF ACCESSIBILITY:

1. STANDARD USED TO IDENTIFY ACCESSIBLE FACILITIES.
2. WHITE FIGURE ON BLUE BACKGROUND, COLOR # 15090 ON FEDERAL STANDARD # 595A.
3. WHEN ENFORCING AGENCY DETERMINES, IF APPROPRIATE, SPECIAL DESIGNS AND COLORS MAY BE APPROVED.

1 / G8 ACCESSIBLE SIGNAGE
SCALE 1 1/2" = 1'-0"

GENERAL NOTES:

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STATE OF UTAH
KENT R. RIGBY
No. 135096
LICENSED ARCHITECT
04/21/2023

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AJC ARCHITECTS SALT LAKE CITY, UT 84104	A. LUSCHEN DADD A. LUSCHEN TECH. REVIEW: K. RIGBY DATE: 12/09/2022	G8	ACCESSIBILITY REQUIREMENTS GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 9 OF 113

1. Design Criteria

1.1. Governing Building Code ..... 2018 International Building Code (IBC)
  A. Risk Category II

1.2. Roof Live Loading
  A. Roof Live Load ..... 20 psf
  B. Roof Snow Load ..... 25.2 psf + Drift per IBC
    1. Ground Snow Load, P_g ..... 41 psf
    2. Snow Exposure Factor, C_e 1.0
    3. Importance Factor, I_s 1.0
    4. Thermal Factor, C_t 1.0
    5. Slope Factor, C_s 1.0

1.3. Earthquake
  A. Seismic Design Category ..... D
  B. Spectral Response Accelerations
    S_S = 1.244 g S_{DS} = 0.995 g
    S_1 = 0.425 g S_{D1} = 0.533 g
  C. Soil Site Class ..... D (default)
    F_a = 1.2 F_v = 1.88

1.4. Wind
  A. Basic Design Wind Speed, V ..... 103 mph
  B. Velocity pressure exponent coefficient, K_z 0.85
  C. Ground elevation factor, K_e 0.84
  D. Exposure category C
  E. Internal Pressure Coefficient, GC_{pi} 0.18
  F. Topographic Factor, K_{zt} 1.0
  G. Components and Cladding Design Pressure

Design Wind Pressure - LRFD (psf)					
Location		Tributary Area (ft²)			
		< 10	50	200	> 500
Walls	Within 8.4 of building corner	30.3	25.6	21.5	18.8
	All other areas	24.6	22.2	20.2	18.8
Location		Tributary Area (ft²)			
		< 10	25	50	> 100
Roof	Within 8.4 of building corner	64.9	51.3	31.9	22.7
	Within 8.4 of building edge	38.0	30.4	24.6	18.8
	All other areas	38.0	30.4	24.6	18.8

1.5. Foundation
  A. Soil Bearing Pressure: ..... 1500 psf (assumed).
  B. Coefficient of Friction: ..... 0.35 (assumed)

2. Earthwork

2.1. Clearing: The affected building area shall be scraped to remove the top 4 inches of soil, including all vegetation and debris.

2.2. Proof rolling: The natural undisturbed soil below all footings shall be proof rolled prior to placing concrete. Remove all soft spots and replace with compacted structural fill.

2.3. Compacted structural fill: Remove undocumented fill below new slab on grade to suitable natural soils and replace with compacted structural fill. All fill material shall be a well-graded granular material with a maximum size less than 4 inches and with not more than 10 percent passing a No. 200 sieve. It shall be compacted to 95 percent of the maximum laboratory density as determined by ASTM D1557. All fill shall be tested (See Specifications and the Quality Assurance section of the GSN).

2.4. It shall be the responsibility of the Contractor to brace and shore excavations as required.

3. Concrete

3.1. Materials shall comply with the Standards specified in American Concrete Institute (ACI) 318-14, "Building Code Requirements for Structural Concrete."
  A. Concrete mix design requirements shall be as follows:

Location	f'c at 28 days (psi)	Max W/C Ratio	Air Content (%)	Max Aggregate Size	Exposure Classes*		
					F	S	C
Footings	3000	0.50	-	1"	F0	S0	C0
Interior Slabs on Grade	3000	0.45	-	1"	F0	S0	C0
Exterior Walls	4500	0.45	6	¾"	F1	S0	C1
All other site cast concrete	4500	0.45	6	1"	F1	S0	C1

  * Exposure Classes are per ACI 318, Section 19.3.1.1, where F, S and C are exposure categories for freezing and thawing, sulfate, and corrosion protection of reinforcement, respectively.
  B. Cementitious Materials:
    1. Portland Cement (ASTM C150):
      a. Type I or II for exposure class S0.
    2. Fly Ash (ASTM C618, Class C or F): maximum fly ash content as a percentage of total weight of cementitious materials shall be 25 percent.
  C. Concrete Density (Maximum Air Dry Weight):
    1. Normal weight concrete shall be approximately 145 to 155 pounds per cubic foot. Aggregate shall be ASTM C33.
  D. Steel Reinforcement:
    1. ASTM A615 Grade 60, fy = 60,000 psi min. unless noted otherwise.
  E. Wire Reinforcement:
    1. Welded wire fabric (WWF): ASTM A1064.
  F. Fiber Reinforcement:
    1. Synthetic Micro-Fiber: fibrillated polypropylene micro-fibers engineered and designed for use in concrete, complying with ASTM C 1116, 1/2 to 1-1/2 inches long. Add to concrete at a dosage rate of 1.5 lb/cu yd where indicated.
  G. Admixtures:
    1. Air-entraining admixtures, comply with ASTM C 260 (when used).
      a. Tolerance on air content as delivered shall be +/- 1.5%.
      b. When air content of a trowel finished floor slab exceeds 3%, there is an increased risk for delaminations and blistering to occur. When this situation is present, the Contractor shall pay special attention to the finishing procedures to help minimize such risks. Refer to ACI 302.1R-15 "Guide for Concrete Floor and Slab Construction" for proper finishing guidelines.
    2. The use of super plasticizers and water reducers is allowed, but not required.
    3. Calcium chloride or admixtures containing calcium chloride shall not be added to the concrete mix.
  H. Chloride Ion: Maximum water soluble chloride ion concentrations in hardened concrete at age between 28 and 42 days contributed from the ingredients including water, aggregates, cementitious materials, and admixtures shall not exceed a maximum, by weight of cement, of 1.00% for concrete with exposure class C0, 0.30% for concrete with exposure class C1, 0.15% for concrete with exposure class C2, and 0.06% for all prestressed concrete.
  I. Slump Limit: 4 inches, maximum for all concrete prior to the addition of plasticizers and water reducing admixtures. The concrete supplier shall indicate the final slump of each concrete mix in the submitted mix design.
  J. Shrinkage Limit: Interior slabs on grade shall have a drying shrinkage limit of 0.040 percent tested in accordance with ASTM C157. Drying shrinkage test results shall be submitted with mix designs.
  K. Only one grade or type of concrete shall be poured on the site at any given time.

3.2. Formwork shall comply with ACI Standards Publication 347 and the project specifications. The Contractor shall be responsible for the design, detailing, care, placement and removal of the formwork and shores.

3.3. Concrete cover requirements for deformed bar reinforcing steel shall comply with ACI 318, "Building Code Requirements for Structural Concrete".
  A. Cast-in-place Concrete: Specified Cover
    1. Cast against and permanently exposed to earth: ..... 3"
    2. Formed concrete exposed to earth or weather:
      #6 thru #18 bars ..... 2"
      #5 and smaller bars ..... 1.1/2"
    3. Concrete not exposed to weather or in contact with ground:
      Slabs, Walls, Joists; #11 bars and smaller ..... 3/4"
      Beams, Columns: primary reinforcement, ties, stirrups, spirals ..... 1.1/2"

3.4. Construction Joints and Control Joints:
  A. Provide a surface intentionally roughened to ¼" amplitude in all wall footings.
  B. All horizontal and vertical construction joints shall have a surface intentionally roughened to ¼" amplitude. A continuous 2 X 4 keyway may be used on elements other than shear walls.
  C. Provide reinforcement dowels to match the member reinforcement across the joint, unless noted otherwise. For dowels across construction joints and wall to footing connections of concrete shear walls, refer to specific project plans, schedules, and details.
  D. Slabs on grade shall have construction or control joints spaced not to exceed 30 times the slab thickness in any direction.
  E. Control joints shall be installed in slabs on grade so the length to width ratio of the slab is no more than 1.25:1. Control joints shall be completed within 12 hours of concrete placement. See typical details for joint configuration.
  F. Control joints in visually exposed walls, unless noted otherwise: (Joints shall line up with masonry and architectural joints, see drawings.)
    1. Vertical control joints at 10'-0" on center.
    2. Reinforcing shall be continuous through control and construction joints, unless noted otherwise.
    3. Control joints in concrete foundation walls shall line up with masonry control joints.

3.5. Detailing: All reinforcing, including welded wire fabric, shall be detailed, bolstered & supported to comply with ACI 315, "Details and Detailing of Concrete Reinforcement" and the Concrete Reinforcing Steel Institute (CRSI) recommendations. Reinforcing bars shall not be welded unless specifically shown on drawings.
  A. All reinforcing shall be developed in compliance with the CONCRETE REINFORCING BAR DEVELOPMENT AND LAP SPLICE SCHEDULE. As indicated in the drawings or upon approval of the contracting officier, standard tension hooks or headed bars described by the TENSION HOOK DEVELOPMENT SCHEDULE or the TENSION HEADED BAR DEVELOPMENT SCHEDULE may be used in lieu of straight bars.
  B. All mechanical splices shall have the capacity to develop at least 1.25fy of the bar in tension or compression. Type 2 couplers have the capacity to develop the full tension capacity of the bar. Type 1 couplers shall not be used in moment frames and shear wall jamb columns. Mechanical splices shall have a current ICC or IAPMO code evaluation report; "Lenton" (IAPMO No. 0129), "Taper-Lock" (IAPMO No. 0319) or "SAS Stressteel" (ICC ESR-1163), "Bar-Lock" (ICC ESR-2495) or approved equivalent may be used. Mechanical couplers on adjacent bars shall be staggered a minimum of 24" apart along the longitudinal axis of the reinforcing bars.
  C. All embedded elements and dowels shall be securely tied to formwork or to adjacent reinforcing prior to the placement of concrete.
  D. Use chairs or other support devices recommended by CRSI to support and tie reinforcement bars and welded wire fabric prior to placing concrete. Welded wire fabric shall be continuously supported at 36" o.c. maximum.
  E. See typical details for reinforcing at wall intersections and ends, reinforcing around wall openings and suspended slab openings, vertical wall dowels, concrete column ties and splices in vertical column reinforcing.
  F. Where required, reinforcement is to be terminated in a standard hook or headed bar anchor. Refer to the TENSION HOOK DEVELOPMENT SCHEDULE, the TENSION HEADED BAR DEVELOPMENT SCHEDULE and the REINFORCEMENT END HOOK SCHEDULE as appropriate. Unless otherwise noted, a standard hook or headed bar are equivalent and may be substituted at the Contractor's option.
  G. Contractor shall coordinate placement of all openings, curbs, dowels, sleeves, conduits, bolts, inserts and other embedded items prior to concrete placement.
  H. All reinforcement shall be bent cold, and shall be bent only once at the same location. All reinforcement shall be shop bent, unless otherwise permitted by the Contracting Officier.

3.6. Minimum Reinforcing: Wall reinforcing shall be as follows, unless noted otherwise:

Wall Thickness	Horizontal Reinforcing	Vertical Reinforcing
6"	#4 @ 13" o.c.	#4 @ 18" o.c.
8"	#5 @ 15" o.c.	#4 @ 16" o.c.
10"	#5 @ 12" o.c.	#4 @ 13" o.c.
12"	#4 @ 13" o.c. Each Face	#4 @ 18" o.c. Each Face
Others	0.25% of Wall Area	0.15% of Wall Area

Spacing shall exceed neither three times the wall thickness nor 18". In addition to the above reinforcing, 2 - #5 x continuous horizontal bars shall be placed at the bottom of the wall (near the footing) and at each floor level, at the roof level and at the top of wall.

3.7. No aluminum conduit or product containing aluminum or any other material injurious to concrete shall be embedded in concrete.

3.8. Unless otherwise noted, all slabs on grade shall be 4" thick.

4. Wood

4.1. Fabrication and construction shall comply with the following Codes and Standards:
  A. American Wood Council National Design Specification for Wood Construction 2018 Edition and Supplement (NDS and NDS Supplement)
  B. American Wood Council Special Design Provisions for Wind and Seismic 2015 Edition (SDPWS)
  C. Truss Plate Institute National Design Standard for Metal-plate-connected Wood Truss Construction 2014 Edition (TPI 1)

4.2. Materials:
  A. Sawn Lumber: Members shall be identified by the grade mark and shall conform to the requirements of DOC PS 20. Sawn Lumber shall have a moisture content of less than 19% prior to be enclosed or covered.
    1. Dimension Lumber: Members shall be Number 2 Douglas Fir-Larch or better, unless noted otherwise.
  C. Wood Sheathing Panels: All sheathing panels shall be rated by the American Plywood Association (APA). Panels shall bear the stamp of an approved testing and grading agency. Panels shall be grade DOC PS 1 or PS 2 with exterior glue with the following panel span rating or better, unless noted otherwise.

Area to be sheathed	Span Rating	Minimum Thickness (in)
Roofs	40/20	19/32
Floors	24 o.c. or 48/24	23/32
Walls	24/0	3/8

  D. Nails as referenced in these documents shall meet the tolerances in ASTM F1667 and have the following properties or better, unless noted otherwise:

Nail Size	Length	Minimum Penetration	Common		Galvanized Box	
			Shank Diameter	Dowel Bending Yield Strength (psi)	Shank Diameter	Dowel Bending Yield Strength (psi)
6d	2"	1.1/8"	0.113"	100,000	0.099"	100,000
8d	2.1/2"	1.3/8"	0.131"	100,000	0.113"	100,000
10d	3"	1.1/2"	0.148"	90,000	0.128"	100,000
16d	3.1/2"	1.5/8"	0.162"	90,000	0.135"	100,000
20d	4"	2"	0.192"	80,000	0.148"	90,000

  When used to attach sheathing panels, nails shall be common or galvanized box type nails. All other nails shall be common type nails.
  E. Bolts for connections: ASTM A307 with ASTM A563 heavy hex nuts and standard washers unless noted otherwise.
  F. Lag screws for connections: SAE J429 Grade 1 or ASTM A307 Grade A with dimensions per ANSI/ASME B18.2.1. Minimum dowel bending yield strength to be 45,000 psi

4.3. General Framing and Carpentry
  A. Minimum Nailing Requirements (See drawings for areas with greater requirements):
    1. Walls: All sheathing panel edges shall be nailed with 8d common nails at 6" o.c. to common framing members or sheathing panel edge blocking, unless noted otherwise. Sheathing panels shall be nailed at 12" o.c. at all intermediate supports (3/8" or 7/16" panels on studs spaced at 24" o.c. requires 6" spacing at all intermediate supports). All abutting sheathing panel edges shall be blocked with panel edge blocking. Where nominal 3 in members are required at sheathing panel edges, sheathing panel edge blocking shall also be 3 in nominal thickness if placed perpendicular to sheathing.
    2. All nailing through sheathing panels shall be 3/8 in minimum from panel edges.
  B. Connect all items as per the "Minimum Nailing Schedule" contained within the contract drawings and IBC Table 2304.10.1, "Fastening Schedule", unless noted otherwise.
  C. All blocking shall be nominally 2 in thick minimum, unless noted otherwise, and fit tight against adjacent framing members.
    1. Full-depth blocking shall match the depth of adjacent framing member depths. Full-depth blocking shall be shaped to match diaphragm slope. Full-depth blocking cut from I-joist material of the same depth as the I-joists used in floor/roof construction may be used for flat floors or roofs.
    2. Sheathing panel edge blocking and solid blocking may be turned flat against sheathing or other framing, unless noted otherwise.
    3. Where required, squash blocking shall match wall stud nominal thickness, spacing, and shall align with wall studs.

4.4. Framing Connections
  A. Simpson Strong Tie Connectors are used as the basis of design. Alternate connectors are permitted with approval of the Engineer. The Contractor shall submit the proposed product data and code evaluation report demonstrating the connector is equivalent or exceeds the capacity of the specified connector.
  B. Framing connections not indicated shall be connected in a manner similar to typical details in the drawings and the Engineer shall be notified prior to the procurement of connector materials.
  C. Where framing connection type is specified without reference to a specific model no. the highest capacity model hanger of that type which is compatible with the member to be supported shall be used unless noted otherwise in the drawings.
  D. All framing connectors supporting roof members where additional uplift capacity is available shall be fastened to achieve such.
  E. Fill holes in the framing anchors per manufacturer's requirements, unless noted otherwise.

5. Miscellaneous

5.1. Post-Installed Anchors in Concrete
  A. Anchorage to hardened concrete shall include all mechanical and adhesive anchors and epoxy doweled reinforcing bars of size, quantity, spacing, and embedment as shown on the drawings. Additional anchors shall not be used without approval from the Contracting Officier prior to installation.
  B. Special inspection is required during the installation of all post-installed anchors. Refer to applicable code evaluation reports and the Quality Assurance and Statement of Special Inspections sections of the General Structural Notes.
  C. Anchorage to Concrete:
    1. All post-installed anchors into hardened concrete shall be selected from the following pre-approved products, unless noted otherwise:

Steel Screw Anchor	Evaluation Report
Hilti Kwik HUS-EZ	ICC ESR-3027
DeWalt Screw-Bolt+	ICC ESR-3889
Simpson Titen HD	ICC ESR-2713

Steel Expansion/Wedge Anchor	Evaluation Report
Hilti Kwik Bolt TZ2	ICC ESR-4266
DeWalt Power-Stud+ SD2	ICC ESR-2502
Simpson Strong-Bolt 2	ICC ESR-3037

Adhesive Anchor System	Evaluation Report
Hilti HIT-HY 200	ICC ESR-3187
Hilti HIT-RE 500 V3	ICC ESR-3814
DeWalt AC200+	ICC ESR-4027
DeWalt Pure 110+	ICC ESR-3298
Simpson SET-3G	ICC ESR-4057

    2. Adhesive anchors shall be installed into concrete having a minimum age of 21 days. For installations sooner than 21 days, consult the adhesive manufacturer.
  D. Alternate anchors or adhesives are permitted with approval of the Contracting Officier. The Contractor shall submit the proposed anchor product data and code evaluation report demonstrating the anchor is equivalent to or exceeds the capacity of the specified anchor.
  E. Installation of adhesive anchors horizontally or upwardly inclined to support sustained tension loads shall be performed by personnel certified by an applicable certification program. Certification shall include written and performance tests in accordance with the ACI/CRSI Adhesive Anchor Installer Certification program, or equivalent. Proof of current certification shall be submitted to the Contracting Officier for approval prior to commencement of installation.
  F. Anchors shall be installed according to the Manufacturer's Printed Installation Instructions and applicable code evaluation reports including:
    1. Hole diameter, depth, and cleaning procedure
    2. Adhesive mixing, preparation, and placement
    3. Installation torque

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12/09/2022

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
REAVELEY Engineers 675 East 500 South, Suite 400 Salt Lake City, UT 84102 P 801 486 3883 F 801 485 0911 www.reaveley.com	GTO/RE+A DATE JTA/RE+A TECH. REVIEW: JTA/RE+A DATE: 12/09/2022	S1	GENERAL STRUCTURAL NOTES GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 10 OF 113

G. Locate all existing reinforcement and embedded items prior to drilling into concrete or masonry elements. Do not damage rebar or embeds while drilling or installing anchors.
H. Grout all defective or abandoned holes with non-shrink grout or an injectable epoxy adhesive matching the surrounding concrete compressive strength. Consult the Contracting Officier for additional requirements at architecturally exposed concrete.
I. Carbon steel anchors are limited to use in dry, interior locations.
J. Holes for post-installed anchors may not be core drilled unless specifically allowed by the manufacturer's installation instructions and the code evaluation report.

6. Special Instructions

6.1. The project specifications are not superseded by the General Structural Notes but are intended to be complementary to them. Consult the specifications for additional requirements in each section. Notes and specific details on the drawings shall take precedence over General Structural Notes and typical details.

6.2. The architectural drawings are the prime contract drawings. Consultant drawings by other disciplines are supplementary to the architectural drawings. All omissions or conflicts, including dimensions, between the various elements of the consultants' drawings and/or specifications shall be brought to the attention of the Contracting Officer before proceeding with any work involved. In case of conflict, follow the most stringent requirement as directed by the Contracting Officier without additional cost to the Owner. Any work done by the Contractor after discovery of such discrepancy shall be done at the Contractor's risk.

6.3. The structural drawings shall be used in conjunction with the architectural drawings. Primary structural elements and overall structural layout are indicated within the structural plans and details. Some secondary elements, architectural layouts, alcoves, elevations, slopes, depressions, curbs, mechanical equipment and electrical equipment, are not indicated within the structural drawings. Detailing and shop drawing production for structural elements will require information (including dimensions) contained in the architectural, structural and/or other consultants' drawings.

6.4. Shoring and Bracing Requirements:
A. Floor and Roof Structures -- The General Contractor is responsible for the method and sequence of all structural erection. The Contractor shall provide temporary shoring and bracing as the method of erection requires to provide adequate vertical and lateral support. Shoring and bracing shall remain in place as the chosen method requires until all permanent members are in place and all final connections are completed, including all roof and floor attachments. The building shall not be considered stable until all connections are complete.
B. Foundation walls must be braced until the complete floor or roof systems is completed. Do not backfill until floor or roof systems are in place.
C. Walls above grade shall be braced until the structural system is complete. Walls shall not be considered to be self-supporting.

6.5. Submittals: A copy of all shop drawings that have been submitted for review must be kept at the construction site for reference. These drawings must bear the appropriate review stamps. The shop drawing review shall not relieve the Contractor of the responsibility of completing the project according to the contract documents. The General Contractor shall review and mark all shop drawings prior to submitting them to the Contracting Officier for review. Shop Drawings made from reproductions of (these) contract drawings will be rejected.

6.6. Project Coordination: It shall be the responsibility of the General Contractor to coordinate with all trades any and all items that are to be integrated into the structural system. Openings or penetrations through, or attachments to the structural system that are not indicated on these drawings shall be the responsibility of the General Contractor and shall be coordinated with the Contracting Officier. The order of construction is the responsibility of the General Contractor. It is the Contractor's obligation to provide all items necessary for the chosen procedure.

6.7. Contractor shall field verify all dimensions, and conditions. If the contract drawings do not represent actual conditions, Contractor shall notify Contracting Officier prior to fabrication or construction within that area.

6.8. Notice of Copyright: The structural drawings, plans, schedules, notes and details are hereby copyrighted by Reaveley Engineers. Submission or distribution of documents to meet official regulatory requirements or for similar purposes in connection with the project is not to be construed as publication in derogation of Reaveley Engineers' reserved rights. The documents defining the structure are instruments of service prepared by Reaveley Engineers for one use only. Furthermore, these documents shall not be reproduced, or copied, in whole or in part by the Contractor or subcontractors for preparation of shop drawings or other submittals.

7. Quality Assurance

7.1. Quality Assurance Agency Requirements:
A. The Owner shall engage a qualified Quality Assurance Agency (QAA) to provide all special inspection and quality assurance testing for the project. The QAA shall provide all information necessary for the building official to determine that the agency meets the applicable requirements.
1. The QAA shall be objective, competent and independent from the Contractor responsible for the work being inspected. The agency shall disclose to the building official and the registered design professional in responsible charge possible conflicts of interest so that objectivity can be confirmed.
2. The QAA shall have adequate equipment to perform required tests. The equipment shall be periodically calibrated.
3. The QAA shall employ experienced personnel educated in conducting, supervising and evaluating tests and special inspections. Experience or training shall be considered relevant where the documented experience or training is related in complexity to the same type of special inspection or testing activities for projects of similar complexity and material qualities.
4. The QAA shall send copies of all inspection and testing reports to the building official, Owner, Contracting Officier, and Contractor. Reports shall indicate that the work inspected was or was not completed in conformance to the approved construction documents. Discrepancies shall be brought to the immediate attention of the Contractor for correction. If they are not corrected, the discrepancies shall be brought to the attention of the Contracting Officier.
5. The QAA shall submit a final report documenting required special inspections and tests, and correction of any discrepancies noted in the inspections or tests. The final report shall be distributed to the building official, Owner and Contracting Officier in a timely manner prior to the completion of the project.

7.2. Contractor Responsibilities:
A. The Contractor shall submit a written statement of responsibility to the building official and the Owner or the owner's authorized agent prior to the commencement of work on the systems or components listed in the statement of special inspections. The Contractor's statement of responsibility shall contain acknowledgement or awareness of the special requirements contained in the statement of special inspections.
B. Notification of QAA: The Contractor shall notify the QAA in a timely manner so that inspection and testing may be performed as outlined in the statement of special inspections.

8. Statement of Special Inspections

8.1. The following materials, systems and components require special inspection or testing per Chapter 17 of the International Building Code (IBC).

8.2. For items requiring continuous inspection, a special inspector must be present onsite during the performance of that task. In most cases, periodic inspections/tests shall be performed prior to commencing the task, intermittently during the task, and at the completion of the task. Frequency marked with (E) designates periodic inspections that must be performed prior to or upon completion of every task.

Concrete Construction per IBC Sections 1705.3 & 1705.12

Item	Frequency	Detailed Instructions
Reinforcing steel	Periodic	Verify prior to placing concrete that reinforcing is of specified type, grade and size; that it is free of oil, dirt and rust; that it is located and spaced properly; that hooks, bends, ties, stirrups and supplemental reinforcement are placed correctly; that lap lengths, stagger and offsets are provided; and that all mechanical connections are installed per the manufacturer's instructions and/or evaluation report.
Welding of reinforcing steel	Periodic	Visually inspect all welds and also verify weldability of reinforcing steel based upon carbon equivalent and in accordance with AWS D1.4.
Cast-in bolts & embeds	Periodic	Inspection of anchors or embeds cast in concrete is required when allowable loads have been increased or where strength design is used.
Post-installed adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads	Continuous	All post-installed anchors/dowels shall be specially inspected as required by the approved ICC-ES report. Horizontally or upwardly inclined anchors that resist sustained tension loads require continuous inspection and approved installers.
Post-installed mechanical anchors and adhesive anchors not defined above	Periodic	
Use of required mix design	Periodic	Verify that all mixes used comply with the approved construction documents; ACI 318: Ch. 19, 26.4.3-26.4.4; and IBC 1904.1, 1908.2, 1908.3.
Concrete sampling for strength tests, slump, air content, and temperature	Continuous	Samples for strength tests shall be taken in accordance with ASTM C172, cured per ASTM C31 and tested in accordance with ASTM C39 by a testing agency complying with ASTM C1077. Acceptance criteria for strength tests shall be per ACI 318 Section 26.12.3. For each mix placed, samples shall be taken not less than once a day, nor less than once for each 150 yd^3 of concrete, nor less than once for each 5000 ft^2 of surface area for slabs or walls. At the time fresh concrete is sampled to fabricate specimens for strength tests, perform slump and air content tests and determine the temperature of the concrete.
Concrete	Continuous	
Curing temperature and techniques	Periodic	Verify that the ambient temperature for concrete is kept at > 50°F for at least 7 days after placement. High-early-strength concrete shall be kept at > 50°F for at least 3 days. Accelerated curing methods may be used (see ACI 318: 26.4.7-26.4.9). The ambient temperature for shotcrete shall be > 40°F for the same period of time as noted for concrete. Shotcrete shall be kept continuously moist for at least 24 hours after shotcreting. All concrete materials, reinforcement, forms, fillers, and ground shall be free from frost. In hot weather conditions ensure that appropriate measures are taken to avoid plastic shrinkage cracking and that the specified water/cement ratio is not exceeded.
In-situ strength verification	Periodic	Verify that adequate strength has been achieved prior to the removal of shores and forms.
Formwork	Periodic	Verify that the forms are placed plumb and conform to the shapes, lines, and dimensions of the members as required by the approved construction documents.
Welding of Reinforcing Steel (IBC Table 1705.3):		
Verification of weldability	Periodic	Verify weldability of reinforcing steel other than A706 based upon carbon equivalent and in accordance with AWS D1.4. Continuous inspection is required for welding of reinforcing steel used in intermediate or special concrete moment frames, boundary elements of special structural walls or shear reinforcement.
Other reinforcing steel	Periodic	Visually inspect all welds in accordance with AWS D1.4.
Single-pass fillet welds, 5/16" max	Periodic	
All other welds	Continuous	

Soils per IBC Section 1705.6

Item	Frequency	Detailed Instructions
Verify subgrade is adequate to achieve design bearing capacity	Periodic	Prior to placement of concrete.
Verify excavations extend to proper depth and material	Periodic	Prior to placement of compacted fill or concrete.
Verify that subgrade has been appropriately prepared prior to placing compacted fill	Periodic	Prior to placement of compacted fill.
Perform classification and testing of compacted fill materials	Periodic	All materials shall be checked at each lift for proper classifications and gradations not less than once for each 10,000ft^2 of surface area.
Verify proper materials, densities and lift thicknesses during placement and compaction.	Continuous	

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PLAN LEGEND

- S — FOOTING STEP
- FOOTING - CONTINUOUS
- FOOTING - THICKENED SLAB
- FOOTING - SQUARE FOOTING - RECTANGULAR FOOTING - MAT FOOTING
- 0" — CHANGE IN ELEVATION
- CJ / CJ — SLAB CONTROL/CONSTRUCTION JOINT
- RECESSED/DEPRESSED SLAB
- CONCRETE WALL
- CONCRETE WALL - RECESSED (FDTN PLAN)
  CONCRETE LINTEL (FRAMING PLAN)
- CONCRETE WALL - RECESSED AT DOOR
- CONCRETE PIER IN CONCRETE WALL. TOP OF PIER RECESSED BELOW SLAB.
- CONCRETE COLUMN
- EXISTING FOOTING - CONTINUOUS
- EXISTING FOOTING - THICKENED SLAB
- EXISTING FOOTING - SQUARE, RECTANGULAR, OR MAT
- EXISTING CONCRETE SHEAR WALL, FOUNDATION WALL OR RETAINING WALL
- EXISTING OPENING THROUGH CONCRETE WALL
- EXISTING CONCRETE PIER IN CONCRETE WALL. PIER RECESSED BELOW SLAB.
- EXISTING CONCRETE COLUMN
- NEW OPENING THROUGH EXISTING CONCRETE WALL
- EXISTING STEEL COLUMN - TUBE
- EXISTING STEEL COLUMN - PIPE

PLAN MARKS

BF-#	BRACED FRAME
CB-#	CONCRETE BEAM
CC-#	CONCRETE COLUMN
CCSS-#	CANTILEVERED CONCRETE SUSPENDED SLAB
CDP-#	CONCRETE DRILLED PIER
CFW-#	CONCRETE FOUNDATION WALL
CGB-#	CONCRETE GRADE BEAM
CJ-#	CONCRETE JOIST
CJC-#	CONCRETE JAMB COLUMN
CL-#	CONCRETE LINTEL
CP-#	CONCRETE PIER
CRW-#	CONCRETE RETAINING WALL
CSG-#	CONCRETE SLAB ON GRADE
CSH-#	CONCRETE SHEAR HEAD
CSS-#	CONCRETE SUSPENDED SLAB
CSW-#	CONCRETE SHEAR WALL
CW-#	CONCRETE WALL
FC#	CONTINUOUS FOOTING
FM#	MAT FOOTING
FR#	RECTANGULAR FOOTING
FS#	SQUARE FOOTING
FTS#	THICKENED SLAB FOOTING
HD-#	HOLD DOWN ANCHOR
MC-#	MASONRY COLUMN
MF-#	MOMENT FRAME
ML-#	MASONRY LINTEL
MP-#	MASONRY PIER
MW-#	MASONRY WALL
PTB-#	POST-TENSIONED CONCRETE BEAM
SBP-#	STEEL BASE PLATE
SC-#	STEEL COLUMN
SCP-#	STEEL CAP PLATE
SD-#	STEEL DECK
SDA-#	STEEL DECK ATTACHMENT
SG-#	STEEL GIRDER
SJ-#	STEEL JOIST
SND-#	SNOW DRIFT
WB-#	WOOD BEAM
WBW-#	WOOD BEARING WALL
WC-#	WOOD COLUMN
WD-#	WOOD DIAPHRAGM
WJ-#	WOOD JOIST
WSW-#	WOOD SHEAR WALL

STRUCTURAL DRAWING LIST

SHT NO.	SHT NAME
S1	GENERAL STRUCTURAL NOTES
S2	GENERAL STRUCTURAL NOTES
S3	LEGENDS & ABBREVIATIONS
S4	FOOTING & FOUNDATION PLAN
S5	TYPICAL FOOTING & FOUNDATION DETAILS
S6	CONCRETE SCHEDULES
S7	REINFORCING SCHEDULES

ABBREVIATIONS

@	AT
AB	ANCHOR BOLT (S)
ABV	ABOVE
ALT	ALTERNATE
APPROX	APPROXIMATE
ARCH	ARCHITECT(URAL)
BLDG	BUILDING
BLW	BELOW
BM	BEAM
BOT	BOTTOM
BRG	BEARING
BTWN	BETWEEN
CJ	CONSTRUCTION JOINT OR CONTROL JOINT
CJP	COMPLETE JOINT PENETRATION
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CTR	CENTER
D.B.	DECK BEARING
db	DIAMETER OF REINFORCING BAR
DBA	DEFORMED BAR ANCHORS
DBL	DOUBLE
DET	DETAIL
DIA (OR Ø)	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DK	DECK
DN	DOWN
DWG	DRAWING
DWL	DOWEL
E.F.	EACH FACE
E.J.	EXPANSION JOINT (SEISMIC SEPARATION JOINT)
E.W.	EACH WAY
EA	EACH
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
ENG	ENGINEER
EQ	EQUAL
EQUIP	EQUIPMENT
EXIST (E)	EXISTING
EXP	EXPANSION / EXPOSED
EXT	EXTERIOR
F.D.	FLOOR DRAIN
F.F.	FINISH FLOOR
F.V.	FIELD VERIFY
FDTN	FOUNDATION
FIN	FINISH
FL	FLOOR
FT	FOOT
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
GLB	GLU-LAMINATED BEAM
GR	GRADE
GSN	GENERAL STRUCTURAL NOTES
HB	HORIZONTAL BRIDGING
HORIZ	HORIZONTAL
HSA	HEADED STUD ANCHORS
HSS	HOLLOW STRUCTURAL STEEL
HT	HEIGHT
I.F.	INSIDE FACE
IBC	INTERNATIONAL BUILDING CODE
ICC	INTERNATIONAL CODE COUNCIL
IN	INCH
INSUL	INSULATION
INT	INTERIOR
JST	JOIST
JT	JOINT

ABBREVIATIONS

K	KIPS - 1,000 POUNDS
KLF	KIPS PER LINEAL FOOT
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
LBS	POUNDS
Ld, Lt, Lsb, Lsbt, Ldc, Lsc	SEE CONCRETE REINFORCING BAR DEVELOPMENT AND LAP LENGTH SCHEDULE
LF	LINEAL FOOT
LFRS	LATERAL FORCE RESISTING SYSTEM (SFRS & WFRS)
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LSH	LONG SIDE HORIZONTAL
LSV	LONG SIDE VERTICAL
MAS	MASONRY
MAX	MAXIMUM
MCJ	MASONRY CONTROL JOINT
MECH	MECHANICAL
MFGR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
NIC	NOT IN CONTRACT
NORM	NORMAL
NTS	NOT TO SCALE
O.C.	ON CENTER
O.F.	OUTSIDE FACE
OPNG	OPENING
OPP	OPPOSITE
OWSJ	OPEN WEB STEEL JOIST
P.T.	POST-TENSIONED
PAF	POWDER ACTUATED FASTENER
PCF	POUNDS/CUBIC FOOT
PJP	PARTIAL JOINT PENETRATION
PL	PLATE
PLF	POUNDS/LINEAL FOOT
PNL	PANEL
PSF	POUNDS/SQ FOOT
PSI	POUNDS/SQ INCH
R.D.	ROOF DRAIN
REINF	REINFORCING
REQD	REQUIRED
SDS	SELF-DRILLING SCREW
SFRS	SEISMIC FORCE RESISTING SYSTEM
SHT	SHEET
SI	SPECIAL INSPECTION (SP. INSP.)
SIM	SIMILAR
SOG	SLAB ON GRADE
SQ	SQUARE
STAG	STAGGERED
STD	STANDARD
STIFF	STIFFENER
STL	STEEL
STRUCT	STRUCTURAL
T & B	TOP AND BOTTOM
T.O.	TOP OF
TEMP	TEMPERATURE
THDS	THREADS
TOC	TOP OF CONCRETE
TOCP	TOP OF CONCRETE PIER
TOF	TOP OF FOOTING
TOS	TOP OF SLAB
TOST	TOP OF STEEL
TOW	TOP OF WALL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W.P.	WORK POINT
W/	WITH
WF	WIDE FLANGE
WFRS	WIND FORCE RESISTING SYSTEM
WT	WEIGHT
WWF	WELDED WIRE FABRIC
YD	YARD

LICENSED CERTIFIED STRUCTURAL ENGINEER
NO. 1170418
JEFFREY THOMAS MILLER
UTAH
12/09/2022

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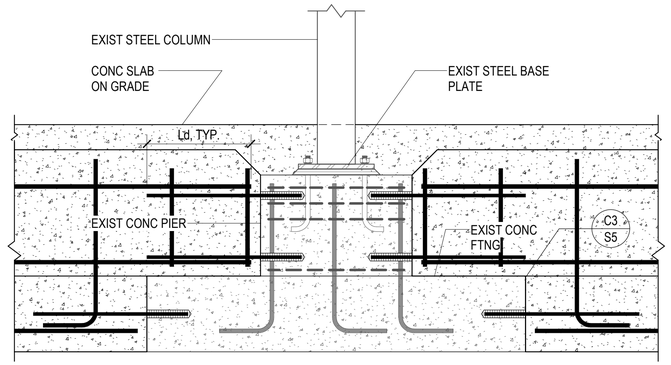
DESIGNED: GTO/RE+A
DADD: JTA/RE+A
TECH. REVIEW: JTA/RE+A
DATE: 12/09/2022

SUB SHEET NO. S3

TITLE OF DRAWING
LEGENDS & ABBREVIATIONS
GOLDEN SPIKE NATIONAL HISTORICAL PARK

DRAWING NO. 431 175345
PMIS/PKG NO. 308441
SHEET 12 OF 113



C1 / S4 WALL CONNECTION TO CONCRETE PIER

NO SCALE

EXISTING BUILDING NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO DETAILING, FABRICATING, ERECTING OR INSTALLING ANY STRUCTURAL ELEMENT. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN TEAM IN A TIMELY MANNER SUCH THAT WORK WILL NOT BE DELAYED.

2. THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING OF EXISTING STRUCTURE DURING CONSTRUCTION.

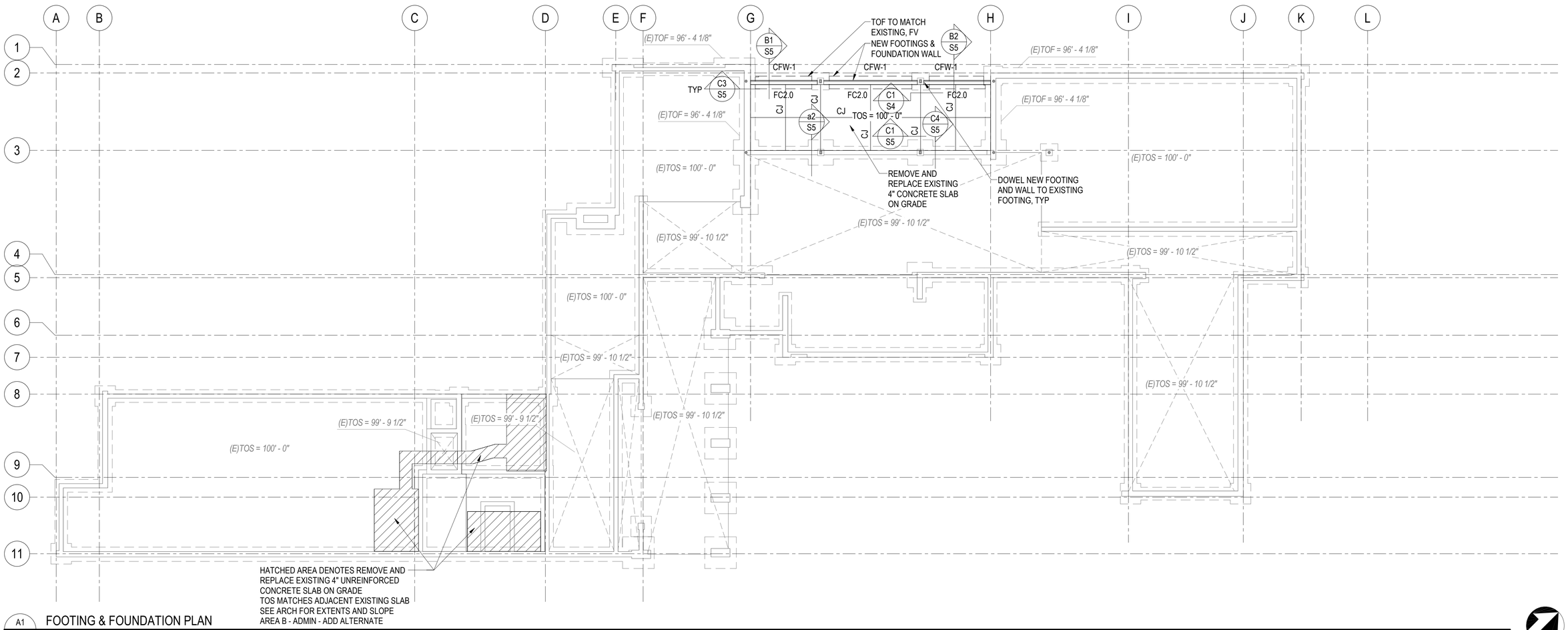
3. PROTECT AND MAINTAIN EXISTING DUCTS UNDER CONCRETE SLAB ON GRADE.

FOOTING & FOUNDATION PLAN NOTES

1. SEE ARCHITECTURAL, CIVIL AND LANDSCAPE DRAWINGS FOR EXTERIOR CONCRETE RETAINING AND / OR SITE WALLS NOT SHOWN ON THE STRUCTURAL DRAWINGS.

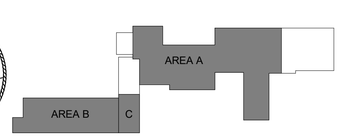
2. PROVIDE REINFORCEMENT AT WALL ENDS, INTERSECTIONS PER TYPICAL DETAIL C1/S6.

4. DOWEL ALL CONCRETE WALLS TO FOOTING PER TYPICAL DETAIL C3/S5.



A1 / S4 FOOTING & FOUNDATION PLAN

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



KEYPLAN

LICENSED CERTIFIED STRUCTURAL ENGINEER
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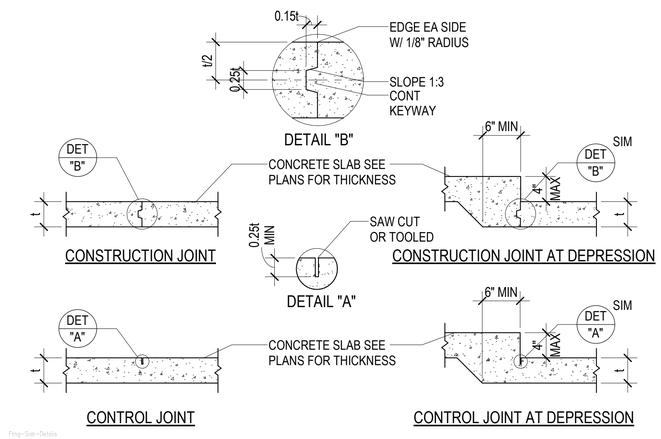
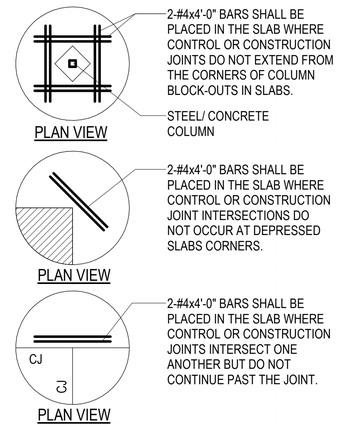
12/09/2022

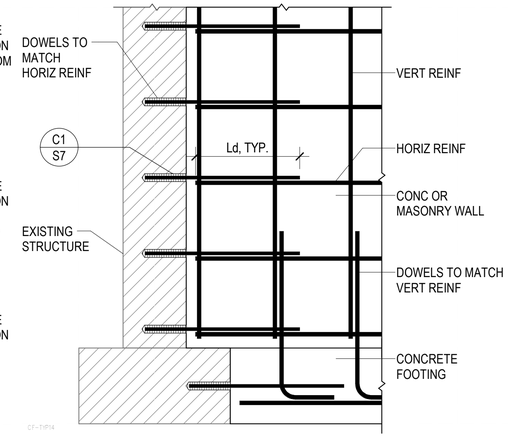
A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
REAVELEY Engineers 675 East 500 South, Suite 400 Salt Lake City, UT 84102 P 801 486 1811 F 801 485 0911 www.reaveley.com	GTO/RE+A PADP JTA/RE+A TECH. REVIEW: JTA/RE+A DATE: 12/09/2022	S4	FOOTING & FOUNDATION PLAN GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 13 OF 113



C1 / S5 TYPICAL CONCRETE SLAB ON GRADE DETAILS

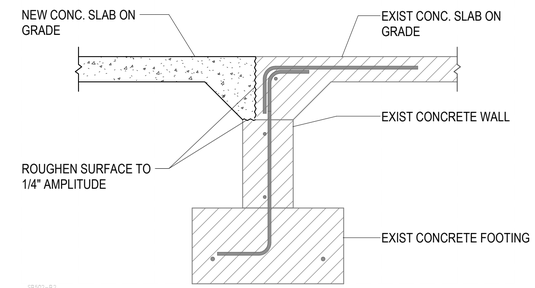
NO SCALE





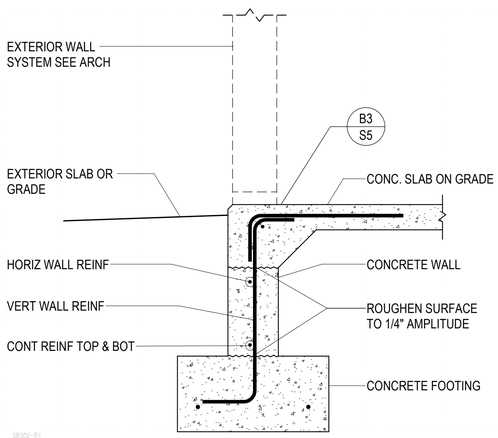
C3 / S5 NEW WALL & FOOTING TO EXISTING STRUCTURE

NO SCALE



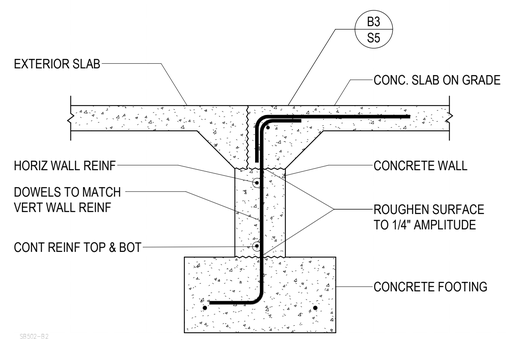
C4 / S5 TYPICAL CONCRETE SLAB TO FOUNDATION WALL AT DOOR OPENING

NO SCALE



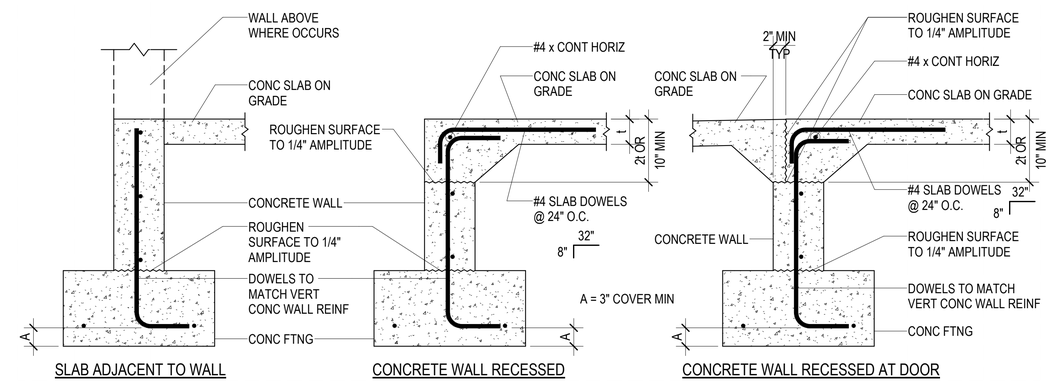
B1 / S5 TYPICAL CONCRETE SLAB TO FOUNDATION WALL AT CURTAIN WALL

NO SCALE



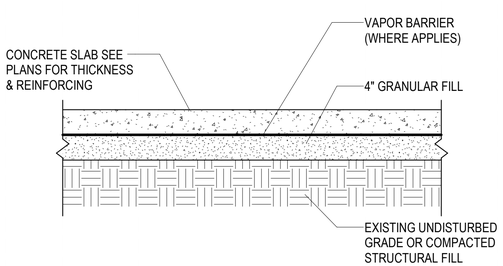
B2 / S5 TYPICAL CONCRETE SLAB TO FOUNDATION WALL AT DOOR OPENING

NO SCALE



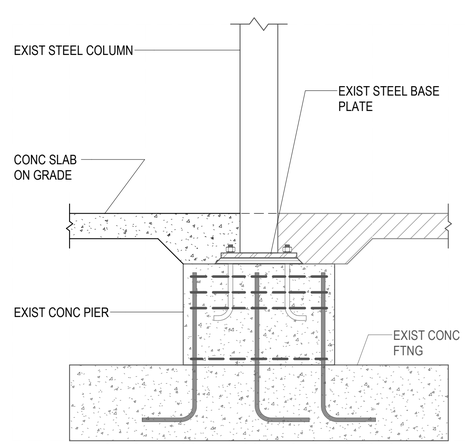
B3 / S5 TYPICAL CONCRETE FOUNDATION WALL WITH CONCRETE SLAB ON GRADE

NO SCALE



A1 / S5 TYPICAL CONCRETE SLAB ON GRADE PROFILE

NO SCALE



a2 / S5 TYPICAL STEEL COLUMN CONNECTION TO CONCRETE FOOTING/CONCRETE PIER

NO SCALE

LICENSED CERTIFIED STRUCTURAL ENGINEER
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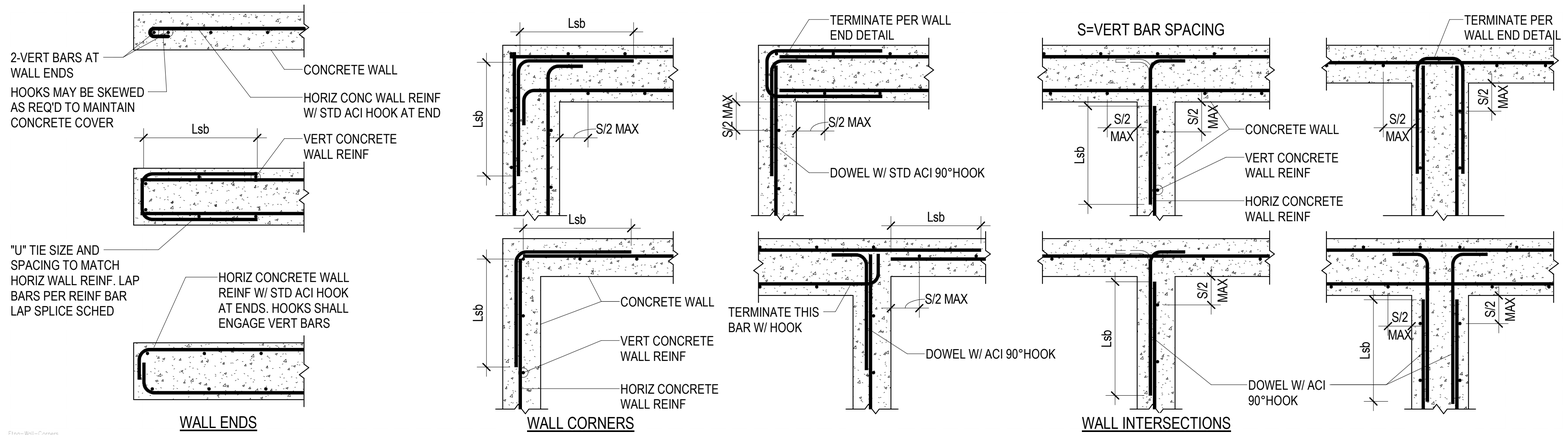
12/09/2022

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
REAVELEY Engineers 675 East 500 South, Suite 400 Salt Lake City, UT 84102 P 801.485.8888 F 801.485.0911 www.reaveley.com	GTO/RE+A DADP JTA/RE+A TECH. REVIEW: JTA/RE+A DATE: 12/09/2022	S5	TYPICAL FOOTING & FOUNDATION DETAILS GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 14 OF 113



C1 / S6 TYPICAL CONCRETE WALL REINFORCING AT ENDS, CORNERS AND INTERSECTIONS (PLAN VIEWS)

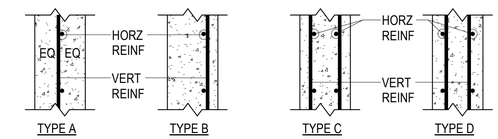
NO SCALE

CONCRETE FOUNDATION WALL SCHEDULE

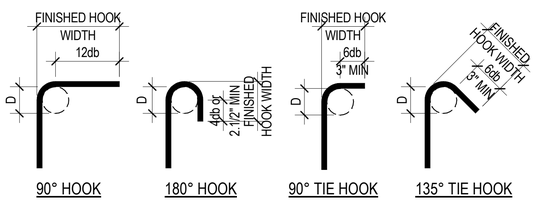
MARK	THICK	HORIZONTAL REINFORCING	VERTICAL REINFORCING	T & B HORIZ. BARS	PLACEMENT
CFW-1	8"	#5 @ 15" O.C.	#4 @ 16" O.C.		

NOTES:
1. HORIZONTAL WALL REINFORCING SHALL BE CONTINUOUS THRU CONSTRUCTION & CONTROL JOINTS.
2. SPLICES IN HORIZONTAL WALL REINFORCING SHALL BE TYPE Lsb, STAGGERED SUCH THAT SPLICES DO NOT OVERLAP. SPLICES IN TWO CURTAINS SHALL NOT OCCUR IN THE SAME LOCATION.

PLACEMENT TYPE



E.F. = EACH FACE
O.F. = OUTSIDE FACE (AGAINST SOIL)
I.F. = INSIDE FACE
3L = THREE LAYERS

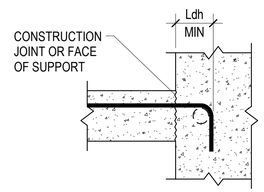


END HOOK SCHEDULE

BAR SIZE	STANDARD FINISHED HOOK WIDTH			SEISMIC FINISHED HOOK WIDTH		
	D	90° HOOK	180° HOOK	D	90° TIE HOOK	135° TIE HOOK
#3	2.1/4"	6"	3"	1.1/2"	4"	4.1/4"
#4	3"	8"	4"	2"	4.1/2"	4.1/2"
#5	3.1/4"	10"	5"	2.1/2"	6"	5.1/2"
#6	4.1/2"	12"	6"	4.1/2"	--	8"
#7	5.1/4"	14"	7"	5.1/4"	--	9"
#8	6"	16"	8"	6"	--	10.1/2"
#9	9.1/2"	19"	11.3/4"	--	--	--
#10	10.3/4"	22"	13.1/4"	--	--	--
#11	12"	24"	14.3/4"	--	--	--
#14	18.1/4"	31"	21.3/4"	--	--	--
#18	24"	41"	28.1/2"	--	--	--

A1 / S6 REINFORCEMENT END HOOK SCHEDULE

NO SCALE



TENSION HOOK DEVELOPMENT LENGTH (Ldh)

BAR SIZE	NORMAL WEIGHT CONCRETE, f'c = PSI				
	3,000	4,000	4,500	5,000	6,000
#3	6"	6"	6"	6"	6"
#4	8"	7"	7"	7"	7"
#5	10"	9"	8"	8"	7"
#6	12"	10"	10"	9"	8"
#7	14"	12"	11"	11"	10"
#8	16"	14"	13"	12"	11"
#9	18"	15"	14"	14"	13"
#10	20"	17"	16"	15"	14"
#11	22"	19"	18"	17"	16"
#14	37"	32"	31"	29"	27"
#18	50"	43"	41"	39"	35"

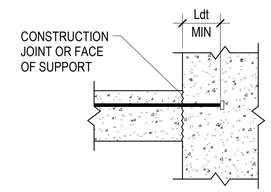
NOTES:
1. VALUES HERE VALID FOR ALL CASES IF:
   SIDE COVER ≥ 2.1/2"
   END COVER ≥ 2"

2. MULTIPLY VALUES IN SCHEDULE BY 1.33 FOR LIGHTWEIGHT CONCRETE

3. MULTIPLY VALUES IN SCHEDULE BY 1.2 FOR USE WITH EPOXY COATED REBAR

A2 / S6 TENSION HOOK DEVELOPMENT SCHEDULE

NO SCALE



TENSION HEADED BAR DEVELOPMENT LENGTH (Ldt)

BAR SIZE	NORMAL WEIGHT CONCRETE, f'c = PSI				
	3,000	4,000	4,500	5,000	6,000
#3	7"	6"	6"	6"	6"
#4	9"	8"	8"	7"	7"
#5	11"	10"	9"	9"	8"
#6	14"	12"	11"	11"	10"
#7	16"	14"	13"	12"	11"
#8	18"	16"	15"	14"	13"
#9	20"	18"	17"	16"	14"
#10	23"	20"	19"	18"	16"
#11	25"	22"	21"	20"	18"

NOTES:
1. VALUES HERE VALID FOR ALL CASES IF:
   A. CLEAR COVER OF BAR ≥ 2"db. WHERE db IS BAR DIAMETER IN INCHES
   B. CLEAR SPACING BETWEEN BARS ≥ 4*db
   C. NET BEARING AREA OF HEAD Abrg ≥ 4*Ab, WHERE Ab IS AREA OF BAR

2. MULTIPLY VALUES IN SCHEDULE BY 1.2 FOR USE WITH EPOXY COATED REBAR.

3. FOR GRADE 60 REINFORCING ONLY.

A3 / S6 TENSION HEADED BAR DEVELOPMENT SCHEDULE

NO SCALE

CONCRETE REINFORCING BAR DEVELOPMENT AND LAP SPLICE LENGTH SCHEDULE

BAR SIZE	f'c = 3000 PSI				f'c = 4000 PSI				f'c = 4500 PSI				f'c = 5000 PSI				f'c = 6000 PSI				f'c = ALL	
	Ld	Lt	Lsb	Lsbt	Ld	Lt	Lsb	Lsbt	Ld	Lt	Lsb	Lsbt	Ld	Lt	Lsb	Lsbt	Ld	Lt	Lsb	Lsbt	Ldc	Lsc
#3	17"	22"	22"	28"	15"	19"	19"	25"	14"	18"	18"	23"	13"	17"	17"	22"	12"	16"	16"	20"	8"	12"
#4	22"	29"	29"	38"	19"	25"	25"	33"	18"	24"	24"	31"	17"	23"	23"	29"	16"	21"	21"	27"	10"	15"
#5	28"	36"	36"	47"	24"	31"	31"	41"	23"	30"	30"	38"	22"	28"	28"	36"	20"	26"	26"	33"	12"	19"
#6	33"	43"	43"	56"	29"	37"	37"	49"	27"	35"	35"	46"	26"	34"	34"	44"	24"	31"	31"	40"	15"	23"
#7	48"	63"	63"	81"	42"	54"	54"	71"	40"	51"	51"	67"	38"	49"	49"	63"	34"	45"	45"	58"	17"	27"
#8	55"	72"	72"	93"	48"	62"	62"	81"	45"	59"	59"	76"	43"	56"	56"	72"	39"	51"	51"	66"	19"	30"
#9	62"	81"	81"	105"	54"	70"	70"	91"	51"	66"	66"	86"	48"	63"	63"	81"	44"	57"	57"	74"	22"	34"
#10	70"	91"	91"	118"	61"	79"	79"	102"	57"	74"	74"	96"	54"	71"	71"	92"	50"	64"	64"	84"	24"	39"
#11	78"	101"	101"	131"	67"	87"	87"	114"	64"	82"	82"	107"	60"	78"	78"	102"	55"	71"	71"	93"	27"	43"
#14	93"	121"	NA	NA	81"	105"	NA	NA	76"	99"	NA	NA	72"	94"	NA	NA	66"	86"	NA	NA	33"	NA
#18	124"	161"	NA	NA	108"	140"	NA	NA	101"	132"	NA	NA	96"	125"	NA	NA	88"	114"	NA	NA	43"	NA

NOTES:
1. DEFINITIONS:
   Ld: TENSION DEVELOPMENT LENGTH FOR REINFORCEMENT SATISFYING THE FOLLOWING CONDITIONS:
      SLABS AND WALLS: CLEAR SPACING > 2db AND CONCRETE CLEAR COVER > db
      BEAMS AND COLUMNS: CLEAR COVER SPACING > db AND CONCRETE CLEAR COVER > db
   Lt: DEVELOPMENT LENGTH FOR TOP BARS IN TENSION
   Lsb: TENSION LAP SPLICE LENGTH FOR OTHER THAN TOP BARS (CLASS B)
   Lsbt: TENSION LAP SPLICE LENGTH OF TOP BARS.
   Ldc: DEVELOPMENT LENGTH FOR BARS IN COMPRESSION
   Lsc: TIED COLUMN LAP SPLICE IN COMPRESSION
   db: NOMINAL BAR DIAMETER (INCHES)
   TOP BARS: HORIZONTAL BEAM REINFORCEMENT WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW

2. MULTIPLY VALUES IN SCHEDULE BY 1.5 IF CLEAR SPACING OR CONCRETE COVER DO NOT MEET REQUIREMENTS FOR Ld IN NOTE 1.

3. MULTIPLY VALUES IN SCHEDULE BY 1.3 FOR USE IN LIGHTWEIGHT AGGREGATE CONCRETE.

4. FOR EPOXY COATED BAR: MULTIPLY VALUES IN SCHEDULE BY 1.5 FOR BARS WITH CLEAR COVER < 3db OR CLEAR SPACING < 6db. OTHERWISE MULTIPLY VALUES BY 1.2.

5. a. FOR BUNDLED BARS OF THREE OR LESS MULTIPLY LENGTHS BY 1.2.
   b. FOR BUNDLED BARS OF FOUR OR MORE MULTIPLY LENGTHS BY 1.33.
   c. INDIVIDUAL BAR SPLICES WITHIN A BUNDLE SHALL NOT OVERLAP. ENTIRE BUNDLES SHALL NOT BE LAP SPLICED.

6. SCHEDULE LENGTHS ARE FOR fy=60ksi REINFORCING, MULTIPLY LENGTHS BY 1.25 FOR fy=75ksi REINFORCING.

7. LAP SPLICES ARE NOT PERMITTED FOR #14 & #18 BARS. USE BAR COUPLERS PER G.S.N.

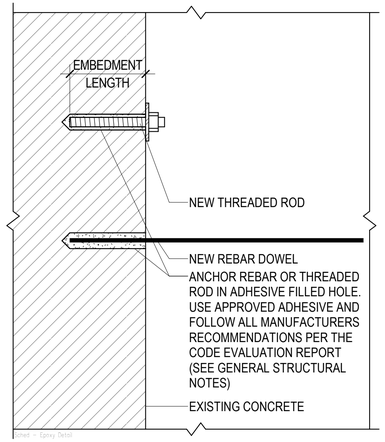
CONCRETE FOOTING SCHEDULE

MARK	WIDTH	LENGTH	THICK	CROSSWISE REINFORCING				LENGTHWISE REINFORCING				REMARKS
				NO.	SIZE	LENGTH	SPACE	NO.	SIZE	LENGTH	SPACE	
FC2.0	2' - 0"	CONT.	1' - 0"	--	NONE	REQ'D	--	3	#4	CONT.	9"	

1. PLACE ALL FOOTING REINFORCING IN BOTTOM OF FOOTING WITH 3" CLEAR CONCRETE COVER UNLESS NOTED OTHERWISE.
2. TOP REINFORCING, WHERE SPECIFIED, SHALL BE PLACED IN THE TOP OF THE FOOTING WITH 2" CLEAR CONCRETE COVER.
3. SPOT FOOTINGS SHALL BE CENTERED UNDER COLUMNS AND CONTINUOUS FOOTINGS SHALL BE CENTERED UNDER WALLS, UNLESS NOTED OTHERWISE.
4. ALL FOOTINGS SHALL BE FORMED. FOOTINGS SHALL NOT BE EARTH FORMED OR OVERSIZED WITHOUT WRITTEN PERMISSION FROM THE STRUCTURAL ENGINEER.

LICENSED CERTIFIED STRUCTURAL ENGINEER
NO. 170418
JEFFREY THOMAS MILLER
UTAH
12/09/2022

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
REAVELEY Engineers 675 East 500 South, Suite 400 Salt Lake City, UT 84102 P: 801 486 2602 F: 801 485 0911 www.reaveley.com	GTO/RE+A CADD JTA/RE+A TECH. REVIEW: JTA/RE+A DATE: 12/09/2022	S6	CONCRETE SCHEDULES GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 15 OF 113



ADHESIVE ANCHORS IN CONCRETE SCHEDULE

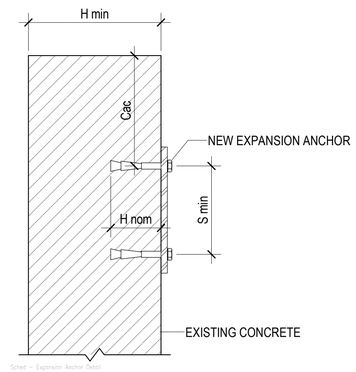
REINFORCING BAR		THREADED ROD	
DOWEL SIZE	EMBEDMENT LENGTH (SEE NOTE #2)	SIZE	EMBEDMENT LENGTH (SEE NOTE #2)
#3	4"	3/8"Ø	4 1/2"
#4	6"	1/2"Ø	6"
#5	9"	5/8"Ø	7 1/2"
#6	10"	3/4"Ø	9"
#7	12 1/2"	7/8"Ø	10 1/2"
#8	13"	1"Ø	12"
#9	14"	1 1/4"Ø	15"
#10	18"		
#11	19"		

NOTES:

1. THIS SCHEDULE SHALL BE USED ONLY WHERE SPECIFICALLY REFERENCED ON THE DRAWINGS AND AT OTHER LOCATIONS WITH APPROVAL OF THE STRUCTURAL ENGINEER.
2. EMBEDMENT LENGTHS SPECIFIED ON PLANS OR DETAILS TAKE PRECEDENCE OVER EMBEDMENT LENGTHS IN THIS SCHEDULE.
3. WHERE THE THICKNESS OF THE EXISTING CONCRETE MEMBER IS NOT SUFFICIENT TO ACHIEVE SCHEDULED EMBEDMENT AND SPECIFIED CLEAR COVER FOR THE ANCHOR, CONTACT THE STRUCTURAL ENGINEER.
4. SEE GENERAL STRUCTURAL NOTES FOR LIST OF APPROVED ADHESIVES AND OTHER REQUIREMENTS FOR ADHESIVE ANCHORING.

C1 / S7 ADHESIVE ANCHORS IN CONCRETE SCHEDULE

NO SCALE



EXPANSION ANCHORS IN CONCRETE SCHEDULE

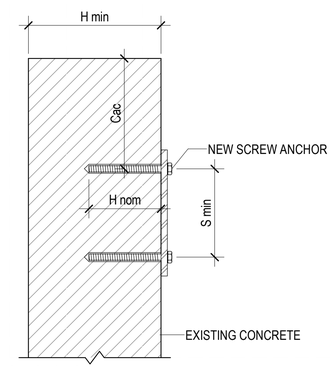
ANCHOR SIZE	MINIMUM EDGE DISTANCE (Cac)	EMBEDMENT LENGTH (H nom)	MINIMUM CONCRETE THICKNESS (H min)	MINIMUM ANCHOR SPACING (S min)
3/8"Ø	6.1/2"	2.7/8"	4.1/2"	3.3/4"
1/2"Ø	10"	3.7/8"	6"	5"
5/8"Ø	10"	5.1/8"	8"	6"
3/4"Ø	16"	5.3/4"	10"	7"

NOTES:

1. THIS SCHEDULE SHALL BE USED ONLY WHERE SPECIFICALLY REFERENCED ON THE DRAWINGS. ANCHORS AT OTHER LOCATIONS MUST BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
2. EDGE DISTANCE, Cac, AND EMBEDMENT LENGTHS, H nom, AND ANCHOR SPACING SPECIFIED ON PLANS OR DETAILS TAKE PRECEDENCE OVER VALUES IN THIS SCHEDULE.
3. ANCHORS LOCATED WHERE THE THICKNESS OF THE EXISTING CONCRETE MEMBER DOES NOT MEET THE REQUIRED MINIMUM CONCRETE THICKNESS MUST BE APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION.
4. SEE GENERAL STRUCTURAL NOTES FOR LIST OF APPROVED ANCHORS AND OTHER REQUIREMENTS FOR USING EXPANSION ANCHORS.

C3 / S7 EXPANSION ANCHORS IN CONCRETE SCHEDULE

NO SCALE



SCREW ANCHORS IN CONCRETE SCHEDULE

ANCHOR SIZE	MINIMUM EDGE DISTANCE (Cac)	EMBEDMENT LENGTH (H nom)	MINIMUM CONCRETE THICKNESS (H min)	MINIMUM ANCHOR SPACING (S min)
3/8"Ø	3.3/4"	3.1/4"	5"	3"
1/2"Ø	4.1/2"	4"	6.1/4"	3.1/2"
5/8"Ø	6.3/8"	5.1/2	8.1/2"	3.3/4"
3/4"Ø	7.5/16"	6.1/4"	10"	4.1/2"

NOTES:

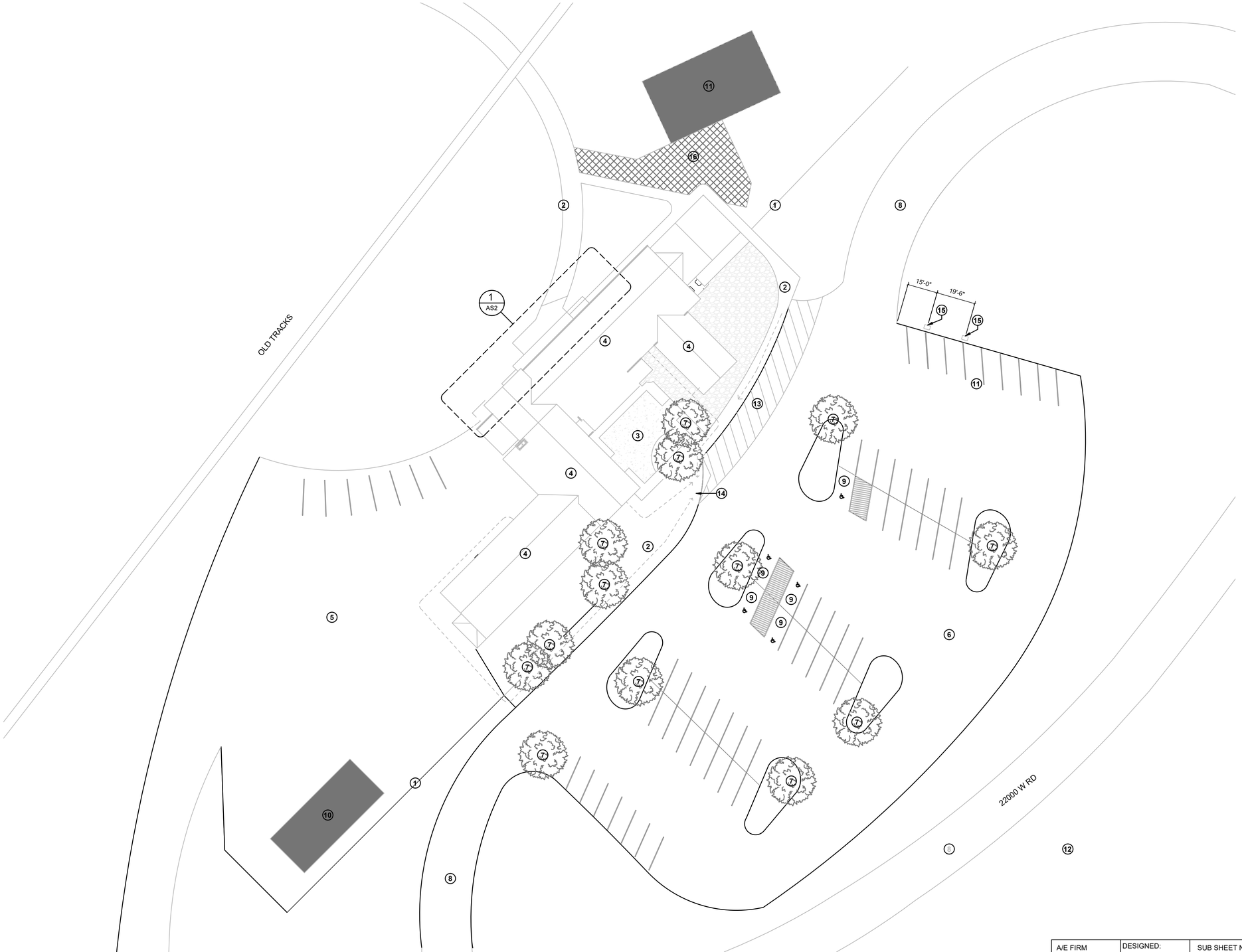
1. THIS SCHEDULE SHALL BE USED ONLY WHERE SPECIFICALLY REFERENCED ON THE DRAWINGS AND AT OTHER LOCATIONS WITH APPROVAL OF THE STRUCTURAL ENGINEER.
2. EDGE DISTANCE, Cac, AND EMBEDMENT LENGTHS, H nom, AND ANCHOR SPACING SPECIFIED ON PLANS OR DETAILS TAKE PRECEDENCE OVER VALUES IN THIS SCHEDULE.
3. ANCHORS LOCATED WHERE THE THICKNESS OF THE EXISTING CONCRETE MEMBER DOES NOT MEET THE REQUIRED MINIMUM CONCRETE THICKNESS MUST BE APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION..
4. SPECIAL INSPECTION IS REQUIRED DURING INSTALLATION OF ALL SCREW ANCHORS PER THE CODE EVALUATION REPORT FOR THE ANCHOR AND THE QUALITY ASSURANCE SECTION OF THE GENERAL STRUCTURAL NOTES.
5. SEE GENERAL STRUCTURAL NOTES FOR LIST OF APPROVED ANCHORS AND OTHER REQUIREMENTS FOR USING SCREW ANCHORS.
6. SCREW ANCHORS SHALL ONLY BE USED IN INTERIOR DRY LOCATIONS

B3 / S7 SCREW ANCHORS IN CONCRETE SCHEDULE

NO SCALE

12/09/2022

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
REAVELEY Engineers 675 East 500 South, Suite 400 Salt Lake City, UT 84102 P 801 486 1883 F 801 485 0511 www.reaveley.com	GTO/RE+A DATE JTA/RE+A TECH. REVIEW: JTA/RE+A DATE: 12/09/2022	S7	REINFORCING SCHEDULES GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 16 OF 113



GENERAL NOTES:

SEE SHEET G1 FOR DRAWING INDEX.

SEE SHEET G2 FOR SYMBOLS LEGEND AND ABBREVIATIONS.

SEE SHEET G3 FOR GENERAL NOTES AND LEGEND.

DO NOT SCALE DRAWINGS.

CONTRACTOR / SUBCONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK, AND SHALL REPORT TO THE CONTRACTING OFFICER ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.

KEYED NOTES:

1 EXISTING FENCE TO REMAIN.
2 EXISTING SIDEWALK TO REMAIN.
3 EXISTING PATIO TO REMAIN.
4 EXISTING BUILDING TO REMAIN.
5 EXISTING EMPLOYEE PARKING LOT TO REMAIN.
6 EXISTING VISITOR PARKING LOT TO REMAIN.
7 EXISTING TREES TO REMAIN.
8 EXISTING PAVED ROADWAY.
9 EXISTING ACCESSIBLE PARKING SPACE.
10 POTENTIAL GC TRAILER LOCATION
11 POTENTIAL LOCATION OF TEMPORARY PARK EXHIBIT TRAILER (Temp VC) WITH ADA ACCESSIBLE RAMP, PORTA JOHNS (4 TOTAL, 2 OF WHICH ARE ACCESSIBLE). GC TO COORDINATE ACCESSIBLE ROUTE AND LOCATION WITH PARK. SEE SPECIFICATION SECTION 01 50 00
12 POTENTIAL STAGING AREA
13 NO PARKING, EXISTING STRIPING
14 EXISTING ACCESSIBLE RAMP
15 ROUGH-IN ONLY FOR FUTURE ELECTRIC VEHICLE CHARGING LOCATIONS
16 TEMPORARY ACCESSIBILE SURFACE

ACCESSIBLE ROUTE

1 / AS1 SITE PLAN
SCALE 1" = 25'-0"

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	A. LUSCHEN CADD A. LUSCHEN TECH. REVIEW: K. RIGBY DATE: 12/09/2022 NPS REV - 4/1/2025	AS1	SITE PLAN GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 17 OF 113

GENERAL NOTES:

SEE SHEET G1 FOR DRAWING INDEX.

SEE SHEET G2 FOR SYMBOLS LEGEND AND ABBREVIATIONS.

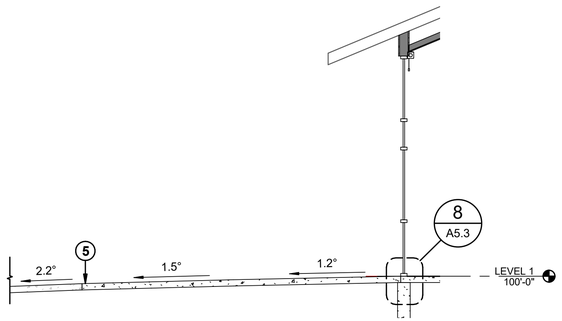
SEE SHEET G3 FOR GENERAL NOTES AND LEGEND.

DO NOT SCALE DRAWINGS.

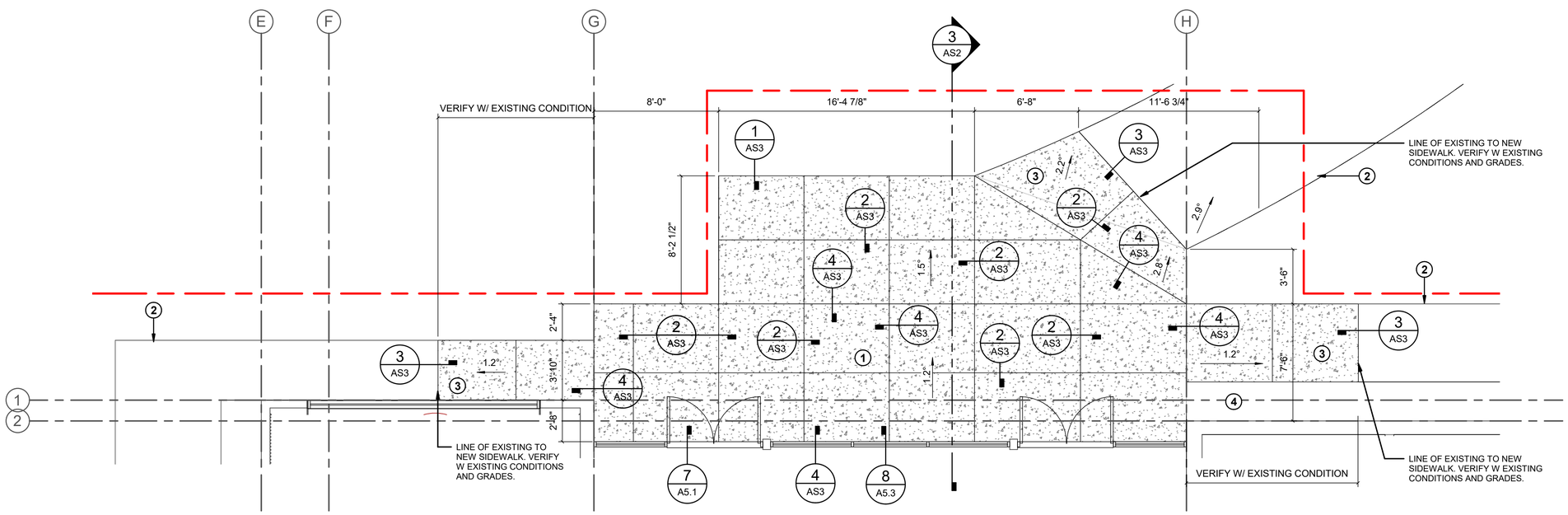
CONTRACTOR / SUBCONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK, AND SHALL REPORT TO THE CONTRACTING OFFICER ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.

KEYED NOTES:

1 NEW CONCRETE PATIO.
2 EXISTING SIDEWALK TO REMAIN.
3 NEW CONCRETE SIDEWALK.
4 EXISTING LANDSCAPING
5 MATCH EXISTING GRADE

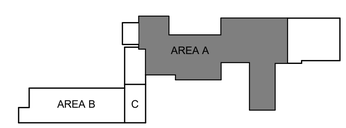


3 / AS2 SPIKE SITE PATIO SECTION
SCALE 1/4" = 1'-0"



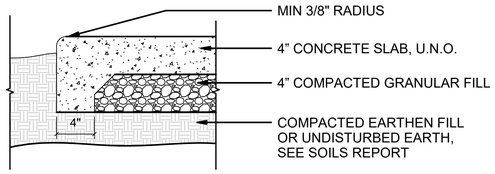
1 / AS2 ENLARGED SITE PLAN
SCALE 1/4" = 1'-0"

STATE OF UTAH
KENT R. RIGBY
No. 135096
LICENSED ARCHITECT
04/21/2023

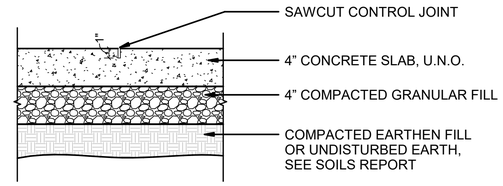


KEYPLAN

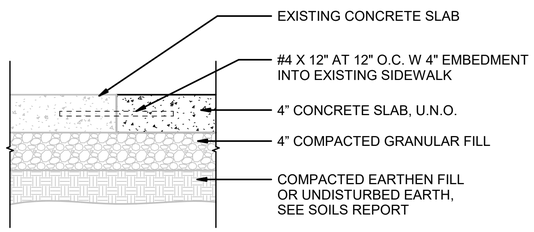
A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	Designer DADD Designer TECH. REVIEW: K. RIGBY DATE: 12/09/2022	AS2	SITE PLAN - ENLARGED GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 18 OF 113



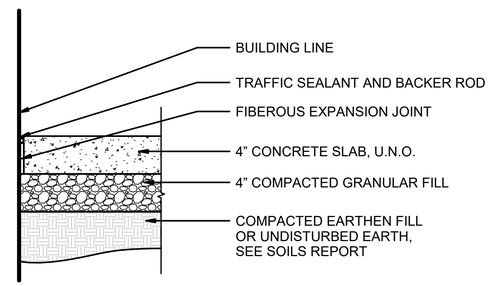
1 / AS3 SITE - CONCRETE EDGE
SCALE 1 1/2" = 1'-0"



2 / AS3 SITE - CONTROL JOINT
SCALE 1 1/2" = 1'-0"



3 / AS3 SITE - EXISTING TO NEW CONCRETE
SCALE 1 1/2" = 1'-0"



4 / AS3 SITE - EXPANSION JOINT
SCALE 1 1/2" = 1'-0"

GENERAL NOTES:

SEE SHEET G1 FOR DRAWING INDEX.

SEE SHEET G2 FOR SYMBOLS LEGEND AND ABBREVIATIONS.

SEE SHEET G3 FOR GENERAL NOTES AND LEGEND.

DO NOT SCALE DRAWINGS.

CONTRACTOR / SUBCONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK, AND SHALL REPORT TO THE CONTRACTING OFFICER ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.

STATE OF UTAH
KENT R. RIGBY
No. 135096
LICENSED ARCHITECT
04/21/2023

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	Designer CADD Designer TECH. REVIEW: Author DATE: 12/09/2022	AS3	SITE DETAILS GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 19 OF 113

GENERAL NOTES:

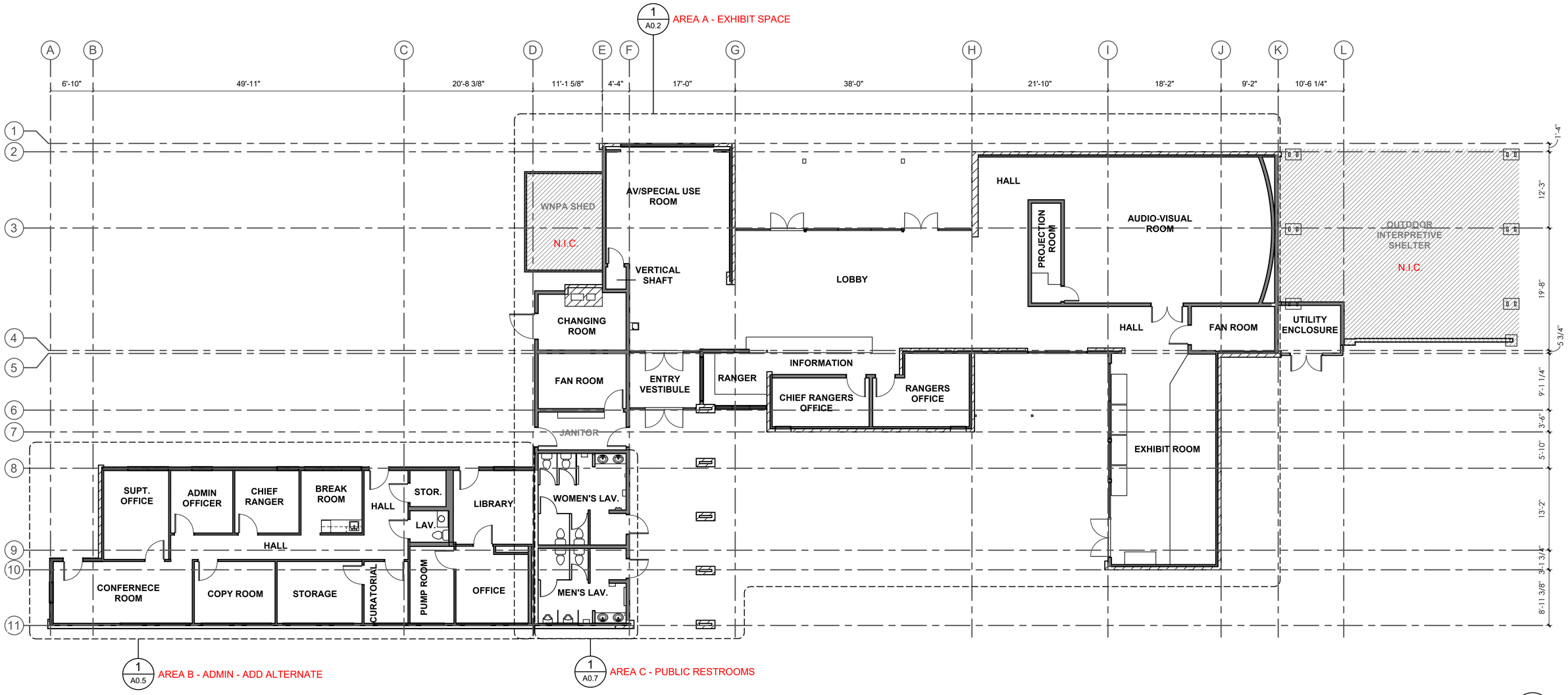
SEE SHEET G1 FOR DRAWING INDEX.

SEE SHEET G2 FOR SYMBOLS LEGEND AND ABBREVIATIONS.

SEE SHEET G3 FOR GENERAL NOTES AND LEGEND.

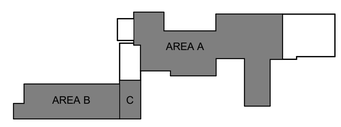
DO NOT SCALE DRAWINGS.

CONTRACTOR / SUBCONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK, AND SHALL REPORT TO THE CONTRACTING OFFICER ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.



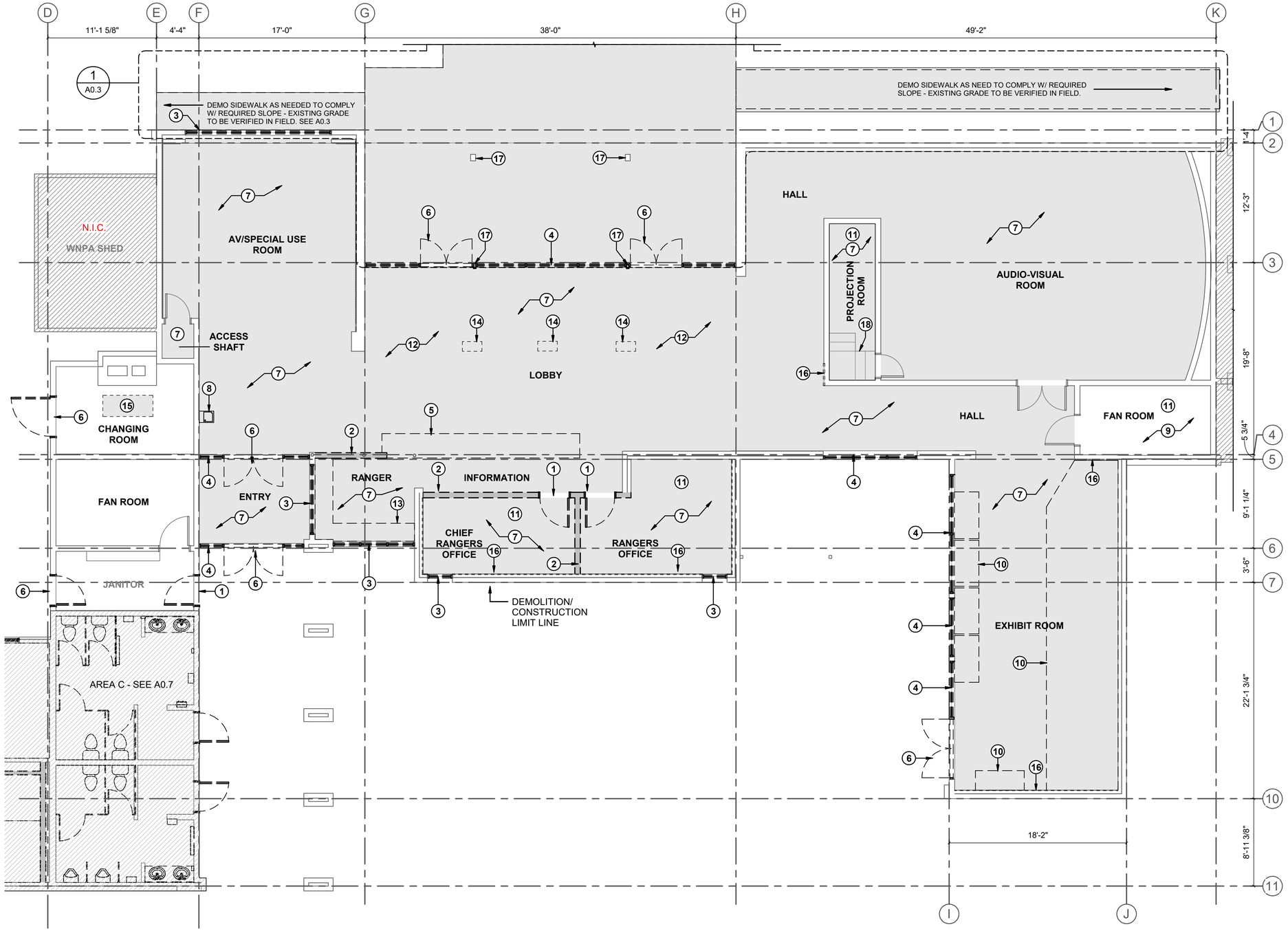
1 A0.1 OVERALL FLOOR PLAN - EXISTING
SCALE 1/8" = 1'-0"

STATE OF UTAH
KENT R. RIGBY
No. 135099
LICENSED ARCHITECT
04/21/2023



KEYPLAN

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	A. LUSCHEN DADP A. LUSCHEN TECH. REVIEW: K. RIGBY DATE: 12/09/2022	A0.1	OVERALL FLOOR PLAN - EXISTING GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 20 OF 113



GENERAL NOTES:

SEE SHEET G1 FOR DRAWING INDEX.

SEE SHEET G2 FOR SYMBOLS LEGEND AND ABBREVIATIONS.

SEE SHEET G3 FOR GENERAL NOTES AND LEGEND.

DO NOT SCALE DRAWINGS.

CONTRACTOR / SUBCONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK, AND SHALL REPORT TO THE CONTRACTING OFFICER ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.

KEYED NOTES:

1. REMOVE EXISTING WOOD DOOR AND FRAME
2. REMOVE EXISTING WOOD STUD WALL
3. REMOVE EXISTING WINDOW AND FRAME
4. REMOVE EXISTING GLASS STORE FRONT SYSTEM
5. REMOVE EXISTING SERVICE DESK AND TRIM
6. REMOVE EXISTING ALUMINUM DOOR, FRAME, AND THRESHOLD
7. REMOVE EXISTING FLOOR FINISH & WALL BASE, PATCH REPAIR, AND PAINT DAMAGED DRYWALL
8. REMOVE AND REPLACE EXISTING WATER FOUNTAIN
9. EXISTING FLOOR FINISH TO REMAIN
10. REMOVE EXISTING EXHIBITS AND RETURN TO NPS
11. ASBESTOS CONTAINING MATERIALS, SEE ASBESTOS AND LEAD SURVEY TO VERIFY
12. EXISTING UNDERSLAB DUCTS TO REMAIN AND BE MAINTAINED, SEE MECHANICAL DRAWINGS.
13. CASEWORK TO BE REMOVED
14. EXISTING FLOOR OUTLETS TO REMAIN
15. SAWCUT PORTION OF CONCRETE SLAB FOR NEW CLEAN OUT DRAIN, COORDINATE SIZE AND LOCATION WITH EXISTING DRAIN
16. REMOVE EXISTING WALL FINISH
17. REMOVE EXISTING COLUMN WRAP
18. REMOVE EXISTING STAIR FINISH

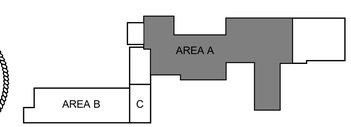
ASBESTOS MATERIAL LOCATIONS:

ASBESTOS - CONTRAINING MATERIAL	MATERIAL LOCATION
DUCT MUD	VC FURNACE ROOM - NORTH WALL, AND FAN ROOM NEAR RESTROOM
VINYL FLOOR TILE	RANGER'S OFFICE AND SUPERVISOR'S OFFICE
WINDOW PUTTY	RANGER'S WINDOW, CASHIER WINDOWS - NORTH AND SOUTH, CURATORIAL STORAGE ROOM
WINDOW CAULKING MATERIAL	RANGER'S WINDOW, CURATORIAL STORAGE ROOM
VINYL FLOOR TILE	ON WOOD FLOOR IN PROJECTION ROOM OF AUDITORIUM
JOINT COMPOUND	VC FURNACE ROOM, PROJECTION ROOM OF AUDITORIUM, JANITOR ROOM , LIBRARY
PIPE FITTING INSULATION	SAMPLED IN FAN ROOM IN ATTIC, LIKELY THROUGHOUT PIPE CHASES AND PLENUMS
DUCT WRAP SEALANT	SAMPLED IN FAN ROOM IN ATTIC, THOUGH LIKELY THROUGHOUT BUILDING
VINYL FLOOR TILE	PROJECTION ROOM OF BLACK BOX

4 0 4 8 12
SCALE OF FEET

1 / A0.2 DEMOLITION FLOOR PLAN - AREA A
SCALE 3/16" = 1'-0"

STATE OF UTAH
KENT R. RIGBY
No. 135096
LICENSED ARCHITECT
04/21/2023



KEYPLAN

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	A. LUSCHEN DADP A. LUSCHEN TECH. REVIEW: K. RIGBY DATE: 12/09/2022	A0.2	DEMOLITION FLOOR PLAN - AREA A GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 / 175345 PMIS/PKG NO. 308441 SHEET 21 OF 113

GENERAL NOTES:

SEE SHEET G1 FOR DRAWING INDEX.

SEE SHEET G2 FOR SYMBOLS LEGEND AND ABBREVIATIONS.

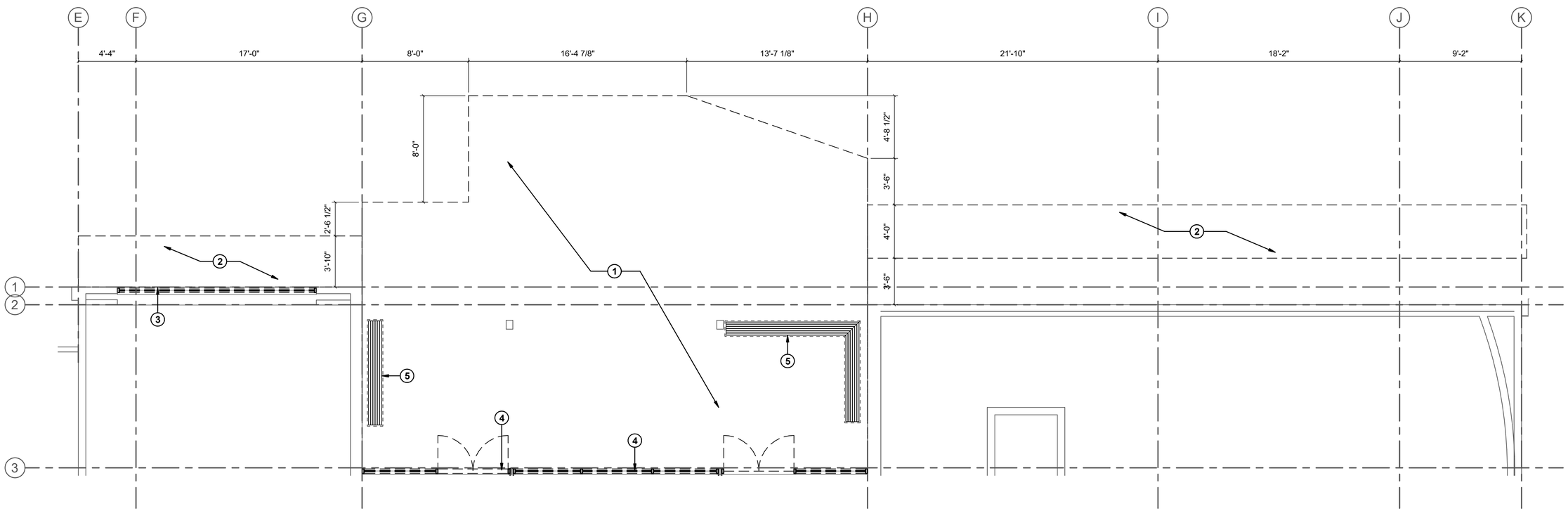
SEE SHEET G3 FOR GENERAL NOTES AND LEGEND.

DO NOT SCALE DRAWINGS.

CONTRACTOR / SUBCONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK, AND SHALL REPORT TO THE CONTRACTING OFFICER ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.

KEYED NOTES:

1. REMOVED EXISTING CONCRETE PATIO, SHOWN DASHED
2. REMOVE EXISTING CONCRETE SIDEWALK TO ACCOMMODATE SLOPE OF NEW SIDEWALKS
3. REMOVE EXISTING WINDOW AND FRAME
4. REMOVE EXISTING GLASS STORE FRONT SYSTEM
5. REMOVED EXISTING BENCH

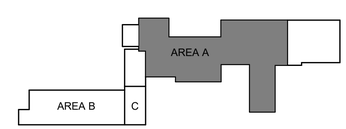


1 A0.3 ENLARGED DEMOLITION PATIO PLAN

SCALE 1/4" = 1'-0"

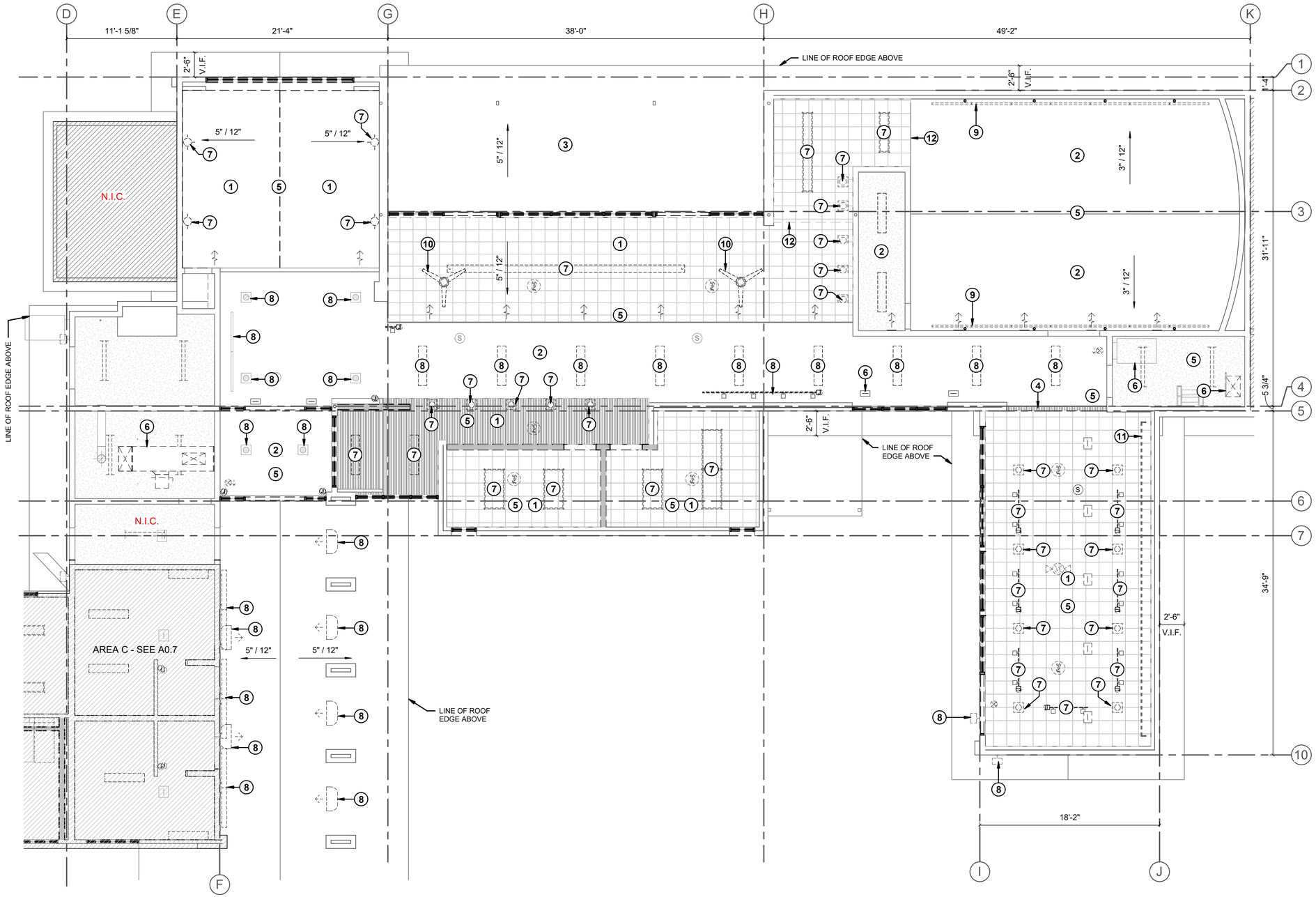
STATE OF UTAH
KENT R. RIGBY
No. 135096
LICENSED ARCHITECT

04/21/2023



KEYPLAN

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	A. LUSCHEN CADD A. LUSCHEN TECH. REVIEW: K. RIGBY DATE: 12/09/2022	A0.3	ENLARGED DEMOLITION PATIO PLAN GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 22 OF 113



1 A0.4 DEMOLITION REFLECTED CEILING PLAN - AREA A

SCALE 3/16" = 1'-0"

GENERAL NOTES:

SEE SHEET G1 FOR DRAWING INDEX.

SEE SHEET G2 FOR SYMBOLS LEGEND AND ABBREVIATIONS.

SEE SHEET G3 FOR GENERAL NOTES AND LEGEND.

DO NOT SCALE DRAWINGS.

CONTRACTOR / SUBCONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK, AND SHALL REPORT TO THE CONTRACTING OFFICER ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.

KEYED NOTES:

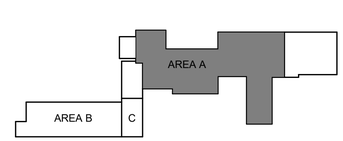
1 REMOVE EXISTING CEILING SYSTEM
2 EXISTING CEILING TO REMAIN
3 EXISTING STRUCTURE TO REMAIN
4 REMOVE PORTION OF EXISTING CEILING TO ACCOMMODATE NEW DOOR AND WALL
5 ASBESTOS CONTAINING MATERIALS, SEE ASBESTOS AND LEAD SURVEY TO VERIFY
6 MECHANICAL EQUIPMENT, SEE MECHANICAL DRAWINGS
7 LIGHTING FIXTURE TO BE REMOVED
8 REMOVE AND REPLACE EXISTING LIGHTING FIXTURE, SEE ELECTRICAL
9 EXISTING LIGHTING FIXTURE TO REMAIN
10 REMOVE EXISTING CEILING FAN
11 REMOVE EXISTING WOOD LIGHT COVE AND LIGHTING FIXTURES
12 REMOVE EXISTING ACOUSTIC TILE FINISH

ASBESTOS MATERIAL LOCATIONS:

ASBESTOS - CONTRAINING MATERIAL	MATERIAL LOCATION
DUCT MUD	VC FURNACE ROOM - NORTH WALL, AND FAN ROOM NEAR RESTROOM
VINYL FLOOR TILE	RANGER'S OFFICE AND SUPERVISOR'S OFFICE
WINDOW PUTTY	RANGER'S WINDOW, CASHIER WINDOWS - NORTH AND SOUTH, CURATORIAL STORAGE ROOM
WINDOW CAULKING MATERIAL	RANGER'S WINDOW, CURATORIAL STORAGE ROOM
VINYL FLOOR TILE	ON WOOD FLOOR IN PROJECTION ROOM OF AUDITORIUM
JOINT COMPOUND	VC FURNACE ROOM, PROJECTION ROOM OF AUDITORIUM, JANITOR ROOM , LIBRARY
PIPE FITTING INSULATION	SAMPLED IN FAN ROOM IN ATTIC, LIKELY THROUGHOUT PIPE CHASES AND PLENUMS
DUCT WRAP SEALANT	SAMPLED IN FAN ROOM IN ATTIC, THOUGH LIKELY THROUGHOUT BUILDING
VINYL FLOOR TILE	PROJECTION ROOM OF BLACK BOX

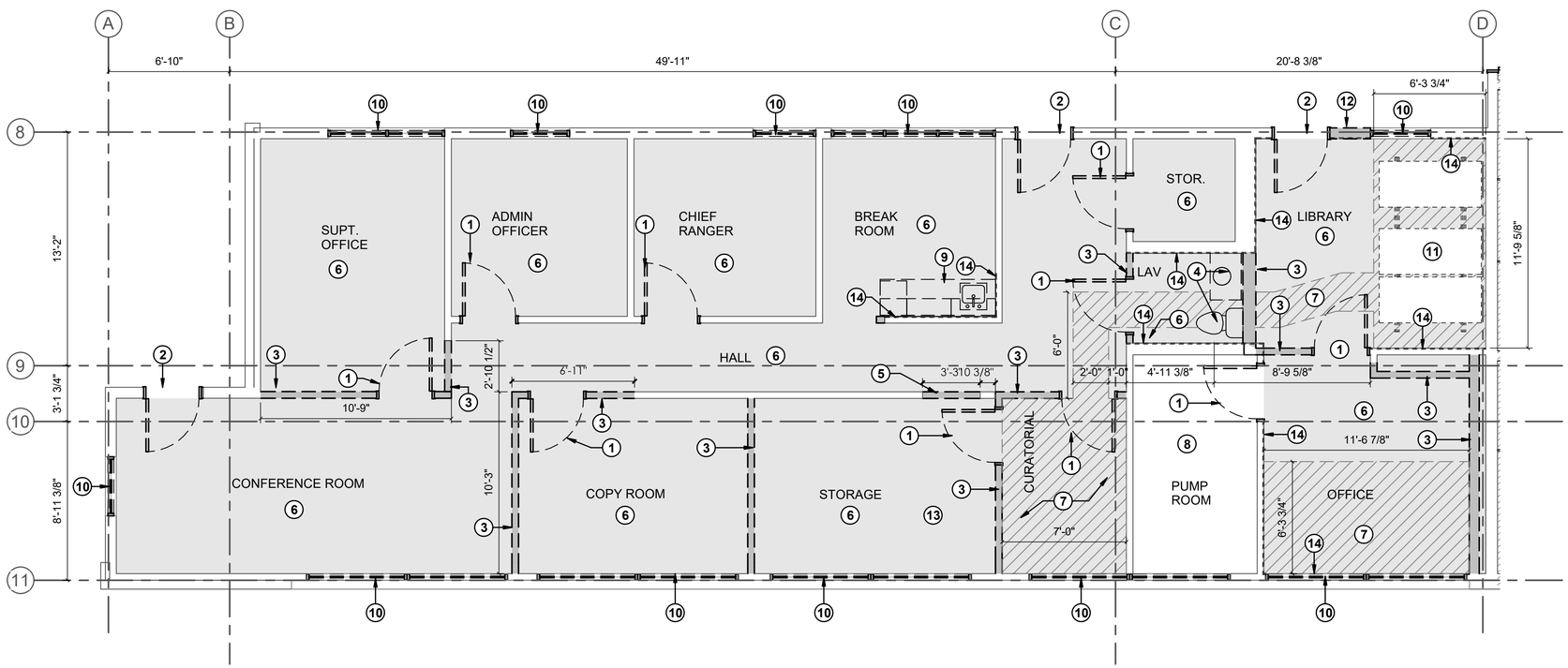
4 0 4 8 12
SCALE OF FEET

STATE OF UTAH
KENT B. RIGBY
No. 135996
LICENSED ARCHITECT
04/21/2023



KEYPLAN

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	A. LUSCHEN CADD A. LUSCHEN TECH. REVIEW: K. RIGBY DATE: 12/09/2022	A0.4	DEMOLITION REFLECTED CEILING PLAN - AREA A GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 23 OF 113



1 A0.5 DEMOLITION FLOOR PLAN - AREA B - ADD ALTERNATE

SCALE 1/4" = 1'-0"

GENERAL NOTES:

SEE SHEET G1 FOR DRAWING INDEX.

SEE SHEET G2 FOR SYMBOLS LEGEND AND ABBREVIATIONS.

SEE SHEET G3 FOR GENERAL NOTES AND LEGEND.

DO NOT SCALE DRAWINGS.

CONTRACTOR / SUBCONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK, AND SHALL REPORT TO THE CONTRACTING OFFICER ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.

KEYED NOTES:

1. REMOVE EXISTING WOOD DOOR AND FRAME
2. REMOVE EXISTING HOLLOW METAL DOOR AND FRAME
3. REMOVE EXISTING WOOD STUD WALL
4. REMOVE EXISTING PLUMBING FIXTURES
5. REMOVE EXISTING PORTION OF WOOD STUD WALL, ROUGH OPENING TO MATCH THE REQUIRED OPENING OF NEW DOOR
6. REMOVE EXISTING FLOOR FINISH & WALL BASE, PATCH REPAIR, AND PAINT DAMAGED DRYWALL
7. SAW CUT AND REMOVE PORTION OF SLAB
8. EXISTING FLOOR FINISH TO REMAIN
9. REMOVE EXISTING MILLWORK AND SINK
10. REMOVE EXISTING WINDOW AND FRAME
11. REMOVE AND SALVAGE SPACE SAVER SHELVING AND TRACKS FOR REUSE
12. REMOVE EXISTING PORTION OF WOOD STUD WALL, ROUGH OPENING TO MATCH THE REQUIRED OPENING OF NEW WINDOW
13. ASBESTOS CONTAINING MATERIALS, SEE ASBESTOS AND LEAD SURVEY TO VERIFY
14. REMOVE EXISTING WALL FINISH

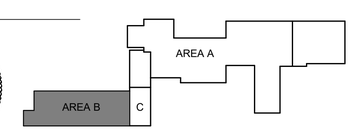
ASBESTOS MATERIAL LOCATIONS:

ASBESTOS - CONTRAINING MATERIAL	MATERIAL LOCATION
DUCT MUD	VC FURNACE ROOM - NORTH WALL, AND FAN ROOM NEAR RESTROOM
VINYL FLOOR TILE	RANGER'S OFFICE AND SUPERVISOR'S OFFICE
WINDOW PUTTY	RANGER'S WINDOW, CASHIER WINDOWS - NORTH AND SOUTH, CURATORIAL STORAGE ROOM
WINDOW CAULKING MATERIAL	RANGER'S WINDOW, CURATORIAL STORAGE ROOM
VINYL FLOOR TILE	ON WOOD FLOOR IN PROJECTION ROOM OF AUDITORIUM
JOINT COMPOUND	VC FURNACE ROOM, PROJECTION ROOM OF AUDITORIUM, JANITOR ROOM , LIBRARY
PIPE FITTING INSULATION	SAMPLED IN FAN ROOM IN ATTIC, LIKELY THROUGHOUT PIPE CHASES AND PLENUMS
DUCT WRAP SEALANT	SAMPLED IN FAN ROOM IN ATTIC, THOUGH LIKELY THROUGHOUT BUILDING
VINYL FLOOR TILE	PROJECTION ROOM OF BLACK BOX

4 0 4 8

SCALE OF FEET

STATE OF UTAH
KENT R. RIGBY
No. 135096
LICENSED ARCHITECT
04/21/2023



KEYPLAN

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	A. LUSCHEN CADD A. LUSCHEN TECH. REVIEW: K. RIGBY DATE: 12/09/2022	A0.5	DEMOLITION FLOOR PLAN - AREA B - ADD ALTERNATE GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 / 175345 PMIS/PKG NO. 308441 SHEET 24 OF 113

GENERAL NOTES:

SEE SHEET G1 FOR DRAWING INDEX.

SEE SHEET G2 FOR SYMBOLS LEGEND AND ABBREVIATIONS.

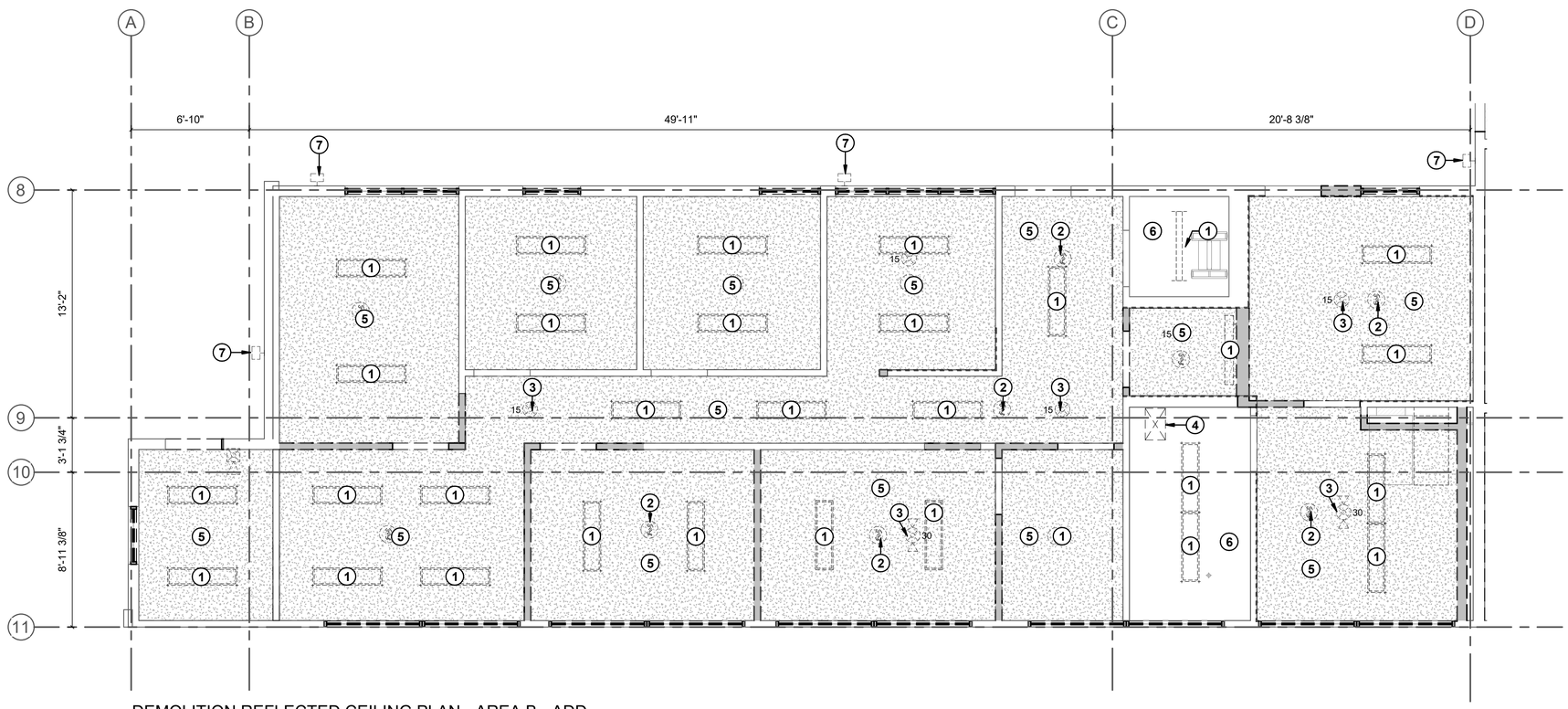
SEE SHEET G3 FOR GENERAL NOTES AND LEGEND.

DO NOT SCALE DRAWINGS.

CONTRACTOR / SUBCONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK, AND SHALL REPORT TO THE CONTRACTING OFFICER ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.

KEYED NOTES:

1. LIGHTING FIXTURE TO BE REMOVED
2. SMOKE DETECTOR TO BE REMOVED
3. EMERGENCY STROBE TO BE REMOVED
4. REMOVE EXISTING MECHANICAL EQUIPMENT, SEE MECHANICAL DRAWINGS
5. REMOVE EXISTING CEILING SYSTEM
6. EXISTING CEILING TO REMAIN
7. REMOVE AND REPLACE EXISTING LIGHTING FIXTURE, SEE ELECTRICAL



1 A0.6 DEMOLITION REFLECTED CEILING PLAN - AREA B - ADD ALTERNATE

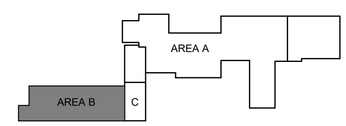
SCALE 1/4" = 1'-0"

4 0 4 8

SCALE OF FEET

STATE OF UTAH
KENT R. RIGBY
No. 135096
LICENSED ARCHITECT

04/21/2023



KEYPLAN

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	A. LUSCHEN CADD A. LUSCHEN	A0.6	DEMOLITION REFLECTED CEILING PLAN - AREA B - ADD ALTERNATE	431 / 175345
	TECH. REVIEW: K. RIGBY		GOLDEN SPIKE NATIONAL HISTORICAL PARK	PMIS/PKG NO. 308441
	DATE: 12/09/2022			SHEET 25 OF 113

GENERAL NOTES:

SEE SHEET G1 FOR DRAWING INDEX.

SEE SHEET G2 FOR SYMBOLS LEGEND AND ABBREVIATIONS.

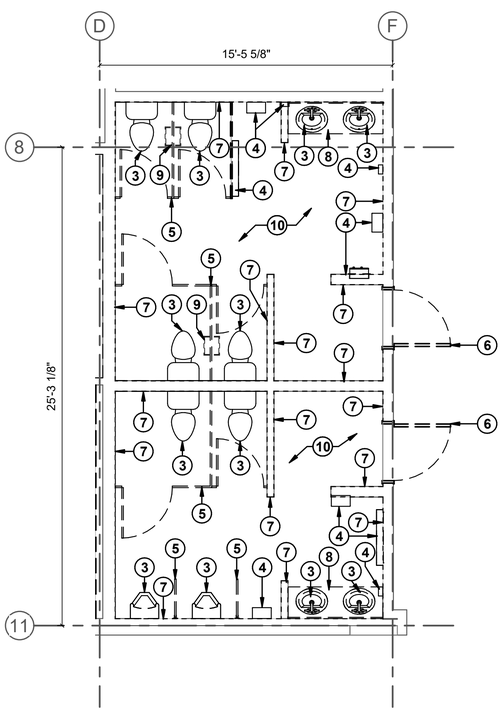
SEE SHEET G3 FOR GENERAL NOTES AND LEGEND.

DO NOT SCALE DRAWINGS.

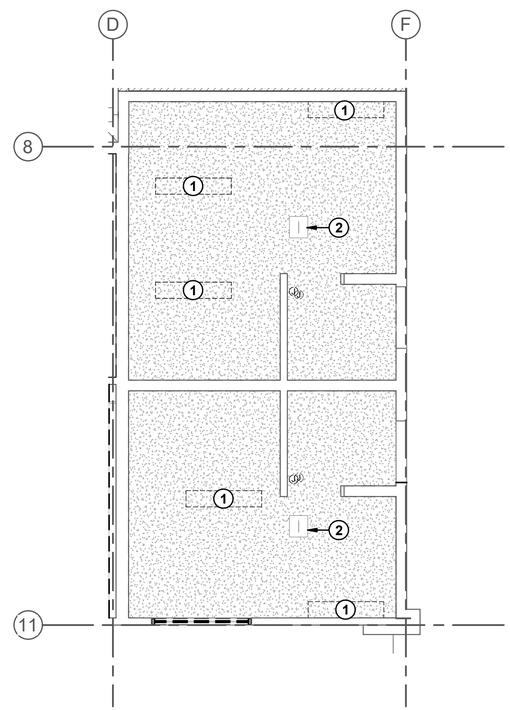
CONTRACTOR / SUBCONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK, AND SHALL REPORT TO THE CONTRACTING OFFICER ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.

KEYED NOTES:

1. REMOVE AND REPLACE EXISTING LIGHTING FIXTURE, SEE ELECTRICAL
2. MECHANICAL EQUIPMENT, SEE MECHANICAL DRAWINGS
3. REMOVE AND REPLACE EXISTING PLUMBING FIXTURES
4. REMOVE AND REPLACE EXISTING WALL ACCESSORIES
5. REMOVE AND REPLACE EXISTING PARTITIONS
6. REMOVE EXISTING WOOD DOOR AND FRAME
7. REMOVE EXISTING TILE FINISH
8. REMOVE AND REPLACE EXISTING COUNTERTOP
9. REMOVE EXISTING SANITARY NAPKIN DISPOSAL
10. REMOVE/SAND EXISTING EPOXY FLOOR PAINT FINISH



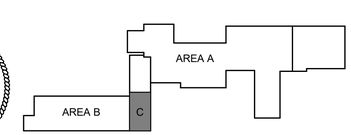
1 A0.7 DEMO FLOOR PLAN - AREA C
SCALE 1/4" = 1'-0"



2 A0.7 DEMO CEILING PLAN - AREA C
SCALE 1/4" = 1'-0"

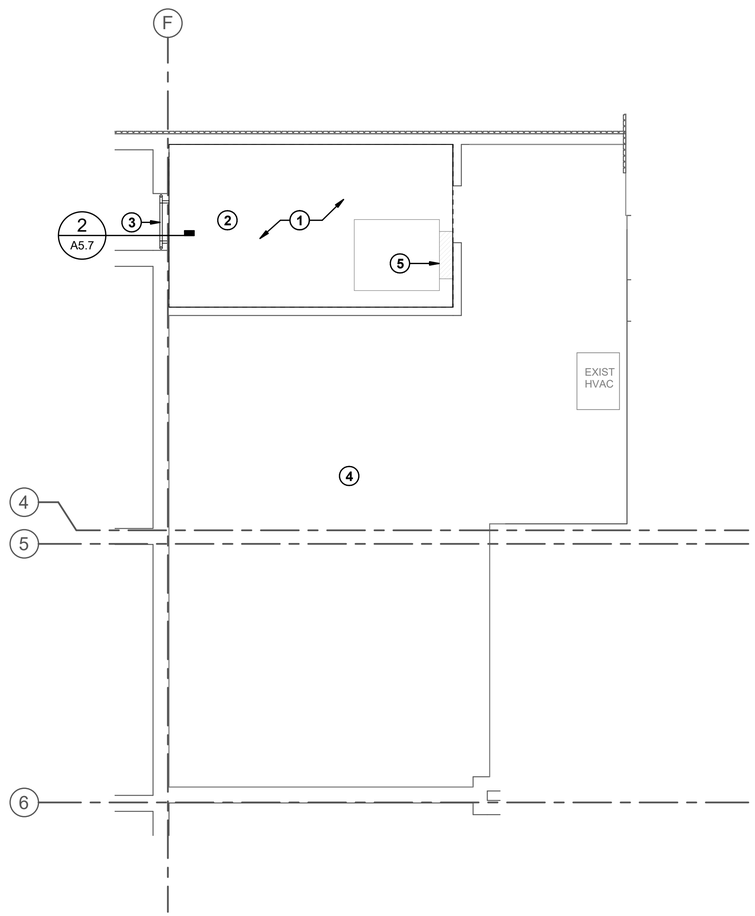
4 0 4 8
SCALE OF FEET

STATE OF UTAH
KENT R. RIGBY
No. 135996
LICENSED ARCHITECT
04/21/2023



KEYPLAN

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	A. LUSCHEN CADD A. LUSCHEN TECH. REVIEW: K. RIGBY DATE: 12/09/2022	A0.7	DEMOLITION FLOOR PLAN AND RCP - AREA C GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 26 OF 113



1 A0.8 DEMO MEZZANINE FLOOR PLAN
SCALE 3/8" = 1'-0"

GENERAL NOTES:

SEE SHEET G1 FOR DRAWING INDEX.

SEE SHEET G2 FOR SYMBOLS LEGEND AND ABBREVIATIONS.

SEE SHEET G3 FOR GENERAL NOTES AND LEGEND.

DO NOT SCALE DRAWINGS.

CONTRACTOR / SUBCONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK, AND SHALL REPORT TO THE CONTRACTING OFFICER ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.

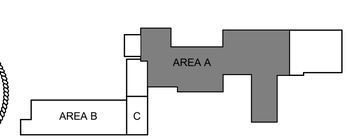
KEYED NOTES:

1. ASBESTOS CONTAINING MATERIALS, SEE ASBESTOS AND LEAD SURVEY TO VERIFY
2. REMOVE EXISTING FLOOR FINISH & WALL BASE, PATCH REPAIR, AND PAINT DAMAGED DRYWALL
3. EXISTING LADDER TO REMAIN, REPAINT
4. EXISTING FLOOR FINISH TO REMAIN
5. EXISTING ELECTRICAL PANEL TO REMAIN

ASBESTOS MATERIAL LOCATIONS:

ASBESTOS - CONTRAINING MATERIAL	MATERIAL LOCATION
DUCT MUD	VC FURNACE ROOM - NORTH WALL, AND FAN ROOM NEAR RESTROOM
VINYL FLOOR TILE	RANGER'S OFFICE AND SUPERVISOR'S OFFICE
WINDOW PUTTY	RANGER'S WINDOW, CASHIER WINDOWS - NORTH AND SOUTH, CURATORIAL STORAGE ROOM
WINDOW CAULKING MATERIAL	RANGER'S WINDOW, CURATORIAL STORAGE ROOM
VINYL FLOOR TILE	ON WOOD FLOOR IN PROJECTION ROOM OF AUDITORIUM
JOINT COMPOUND	VC FURNACE ROOM, PROJECTION ROOM OF AUDITORIUM, JANITOR ROOM , LIBRARY
PIPE FITTING INSULATION	SAMPLED IN FAN ROOM IN ATTIC, LIKELY THROUGHOUT PIPE CHASES AND PLENUMS
DUCT WRAP SEALANT	SAMPLED IN FAN ROOM IN ATTIC, THOUGH LIKELY THROUGHOUT BUILDING
VINYL FLOOR TILE	PROJECTION ROOM OF BLACK BOX

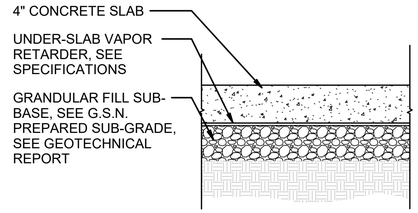
STATE OF UTAH
KENT R. RIGBY
No. 135096
LICENSED ARCHITECT
04/21/2023



KEYPLAN

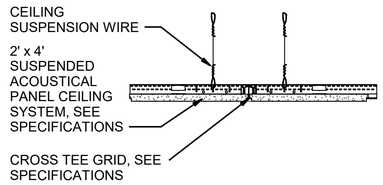
A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	Designer CADD Designer TECH. REVIEW: Author DATE: 12/09/2022	A0.8	DEMOLITION FLOOR PLAN - MEZZANINE GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 27 OF 113

FLOOR ASSEMBLIES

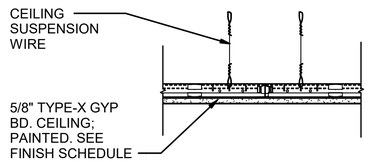


4" CONCRETE SLAB **F1**

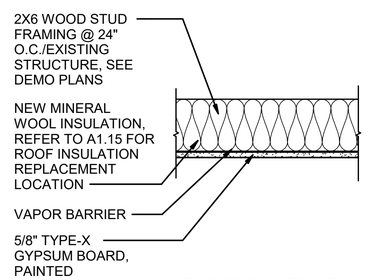
CEILING ASSEMBLIES



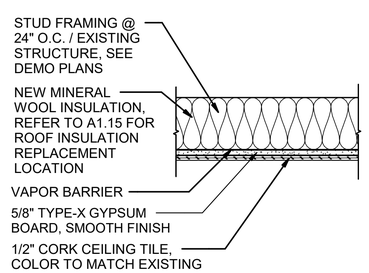
INT - 2' x 4' ACOUSTICAL CEILING **C1**



INT - GYP. BD. - SUSPENDED **C2**

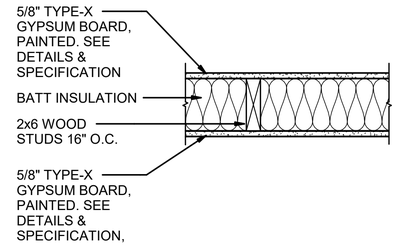


INT - GYP. BD. - FRAMED **C3**

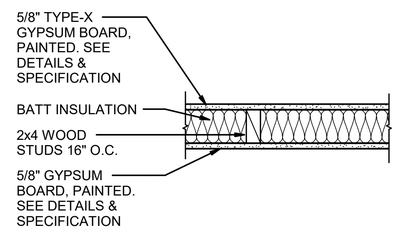


INT - CORK CEILING - FRAMED **C4**

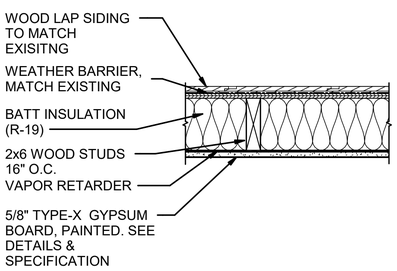
WALL ASSEMBLIES



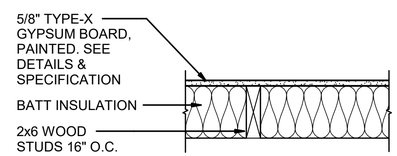
2X6 WOOD STUD WALL WITH 5/8" GYP BD. **9A**



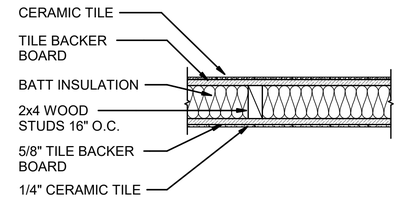
2X4 WOOD STUD WALL WITH 5/8" GYP BD.
4.2066 (h·ft²·°F)/BTU **9B**



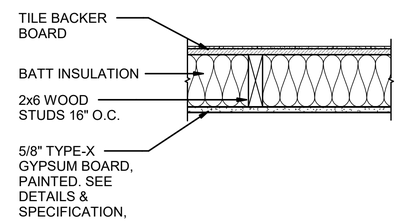
EXT. 2X6 WOOD STUD WALL
20.5216 (h·ft²·°F)/BTU **9C**



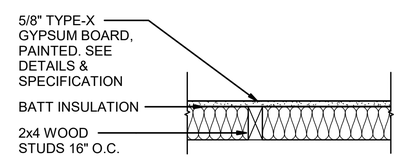
2X6 WOOD STUD WALL WITH 5/8" GYP BD. ON ONE SIDE **9D**



2X4 WOOD STUD WALL WITH 1/4" TILE AND BACKER BOARD **9E**
4.2066 (h·ft²·°F)/BTU



2X6 WOOD STUD WALL WITH 5/8" GYP BD. WITH TILE ONE SIDE **9F**



2X4 WOOD STUD WALL WITH 5/8" GYP BD. ON ONE SIDE **9G**

GENERAL NOTES:

SEE SHEET G1 FOR DRAWING INDEX.

SEE SHEET G2 FOR SYMBOLS LEGEND AND ABBREVIATIONS.

SEE SHEET G3 FOR GENERAL NOTES AND LEGEND.

DO NOT SCALE DRAWINGS.

CONTRACTOR / SUBCONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK, AND SHALL REPORT TO THE CONTRACTING OFFICER ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.

NOTE: ALL WALLS TO BE FRAMED TO BOTTOM OF DECK UNLESS NOTED OTHERWISE.

STATE OF UTAH
KENT R. RIGBY
No. 135096
LICENSED ARCHITECT
04/21/2023

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	A. LUSCHEN DRAWN: A. LUSCHEN TECH. REVIEW: K. RIGBY DATE: 12/09/2022	A1.0	ASSEMBLIES GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 / 175345 PMIS/PKG NO. 308441 SHEET 28 OF 113

GENERAL NOTES:

SEE SHEET G1 FOR DRAWING INDEX.

SEE SHEET G2 FOR SYMBOLS LEGEND AND ABBREVIATIONS.

SEE SHEET G3 FOR GENERAL NOTES AND LEGEND.

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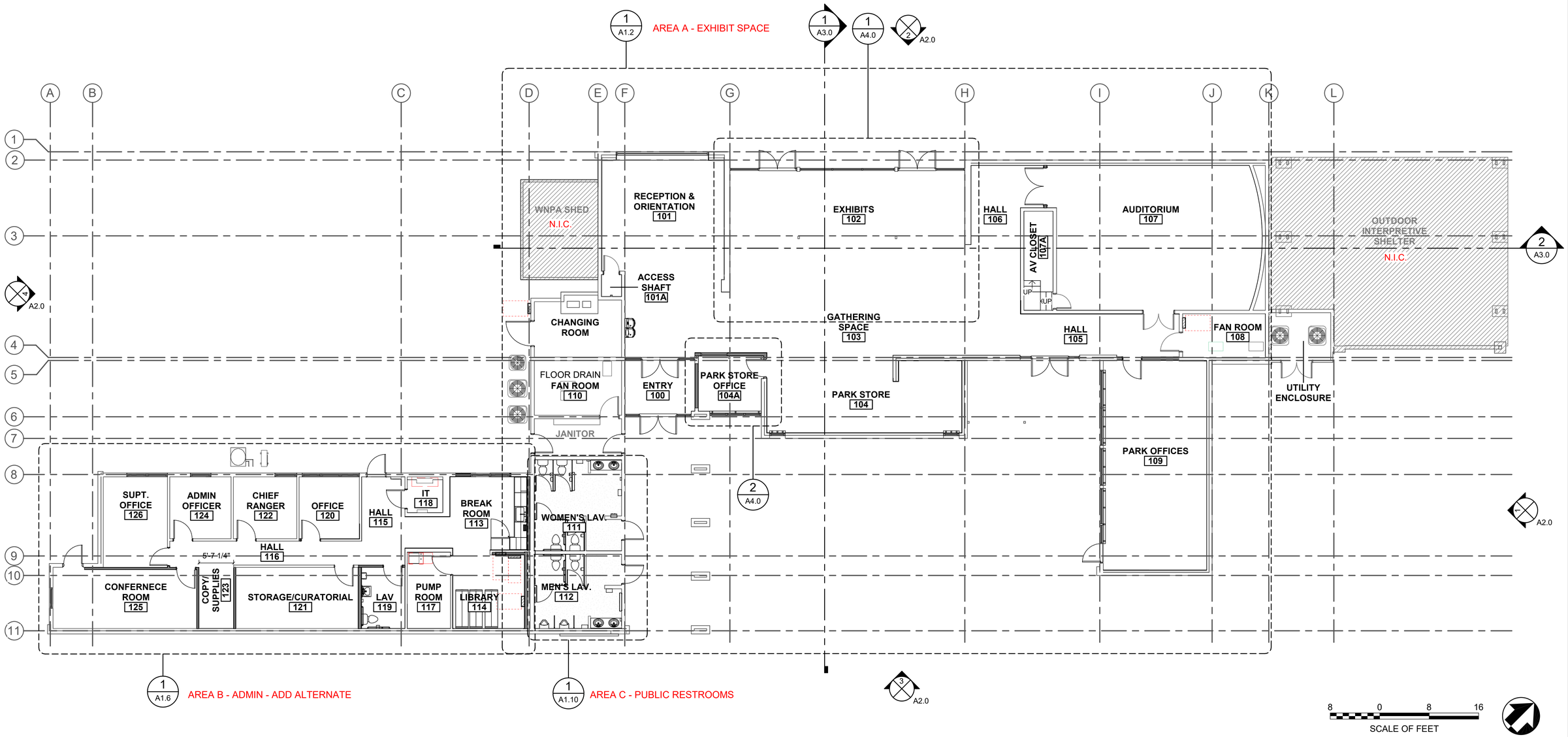
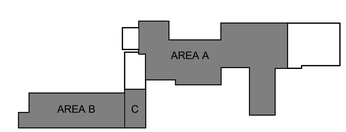


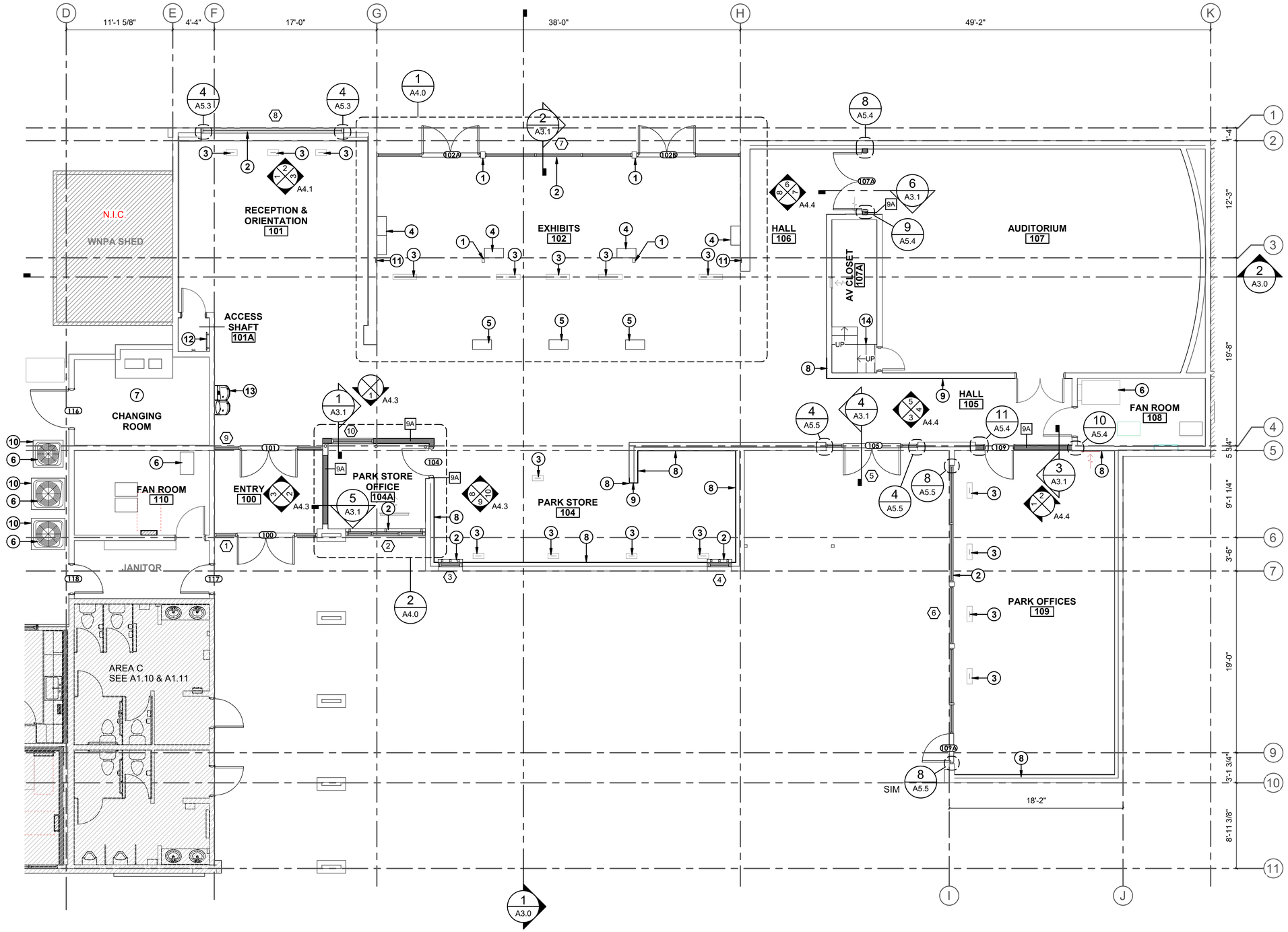
2 A1.1 OVERALL FLOOR PLAN - NEW CONSTRUCTION
SCALE 1/8" = 1'-0"

STATE OF UTAH
KENT R. RIGBY
No. 135998
LICENSED ARCHITECT
04/21/2023



KEYPLAN

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	A. LUSCHEN CADD A. LUSCHEN TECH. REVIEW: K. RIGBY DATE: 12/09/2022	A1.1	OVERALL FLOOR PLAN - NEW CONSTRUCTION GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 29 OF 113



1 A1.2 ANNOTATED FLOOR PLAN - AREA A

SCALE 3/16" = 1'-0"

GENERAL NOTES:

SEE SHEET G1 FOR DRAWING INDEX.

SEE SHEET G2 FOR SYMBOLS LEGEND AND ABBREVIATIONS.

SEE SHEET G3 FOR GENERAL NOTES AND LEGEND.

DO NOT SCALE DRAWINGS.

CONTRACTOR / SUBCONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK, AND SHALL REPORT TO THE CONTRACTING OFFICER ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.

KEYED NOTES:

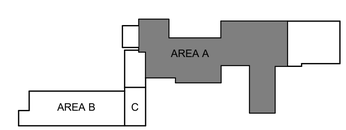
1. EXISTING COLUMN TO REMAIN, TYP, REPAINT
2. MOTORIZED WINDOW SHADE
3. EXISTING AIR DIFFUSER IN FLOOR, NEW GRILLES
4. NEW ELECTRICAL EQUIPMENT, SEE ELECTRICAL
5. EXISTING FLOOR OUTLETS TO REMAIN
6. MECHANICAL EQUIPMENT, SEE MECHANICAL DRAWINGS
7. NEW CLEAN-OUT, SEE PLUMBING PLAN
8. NEW GYPSUM BOARD FINISH
9. FACE EXISTING WOOD PANELED WALL WITH GYPSUM BOARD
10. GALVANIZED STEEL PAD FOR MECHANICAL EQUIPMENT, SEE MECHANICAL
11. PATCH EXISTING STONE WALL, FINISH WITH WOOD TRIM
12. EXISTING LADDER TO REMAIN, REPAINT
13. NEW ACCESSIBLE HIGH & LOW DRINKING FOUNTAIN WITH BOTTLE FILLER
14. EXISTING STAIR TO REMAIN

4 0 4 8 12

SCALE OF FEET

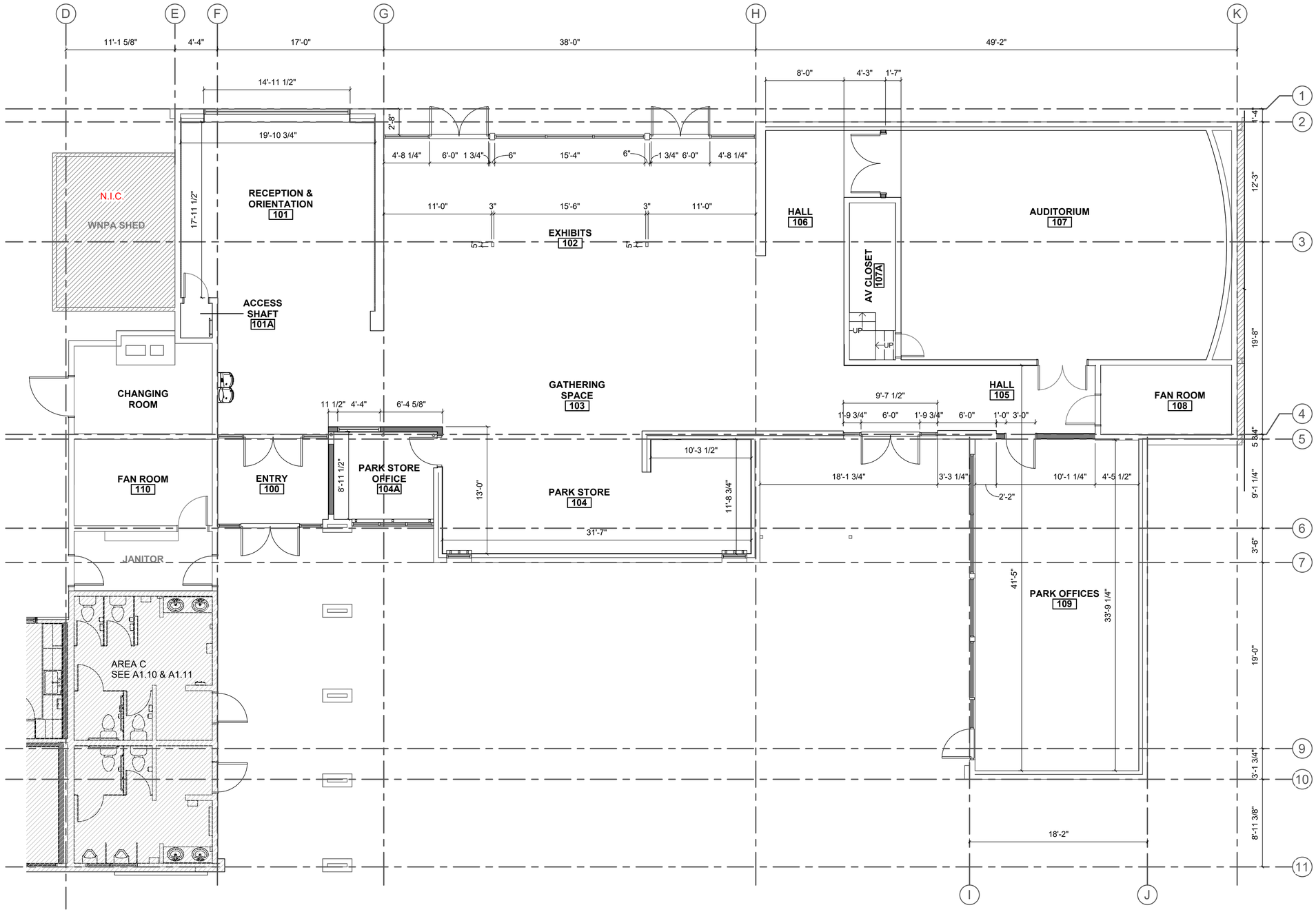
STATE OF UTAH
KENT R. RIGBY
No. 135096
LICENSED ARCHITECT

04/21/2023



KEYPLAN

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	A. LUSCHEN CADD A. LUSCHEN TECH. REVIEW: K. RIGBY DATE: 12/09/2022	A1.2	ANNOTATED FLOOR PLAN - AREA A GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 / 175345 PMIS/PKG NO. 308441 SHEET 30 OF 113



1 A1.3 DIMENSIONED FLOOR PLAN - AREA A

SCALE 3/16" = 1'-0"

GENERAL NOTES:

SEE SHEET G1 FOR DRAWING INDEX.

SEE SHEET G2 FOR SYMBOLS LEGEND AND ABBREVIATIONS.

SEE SHEET G3 FOR GENERAL NOTES AND LEGEND.

DO NOT SCALE DRAWINGS.

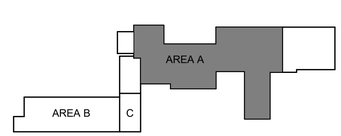
CONTRACTOR / SUBCONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK, AND SHALL REPORT TO THE CONTRACTING OFFICER ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.

4 0 4 8 12

SCALE OF FEET

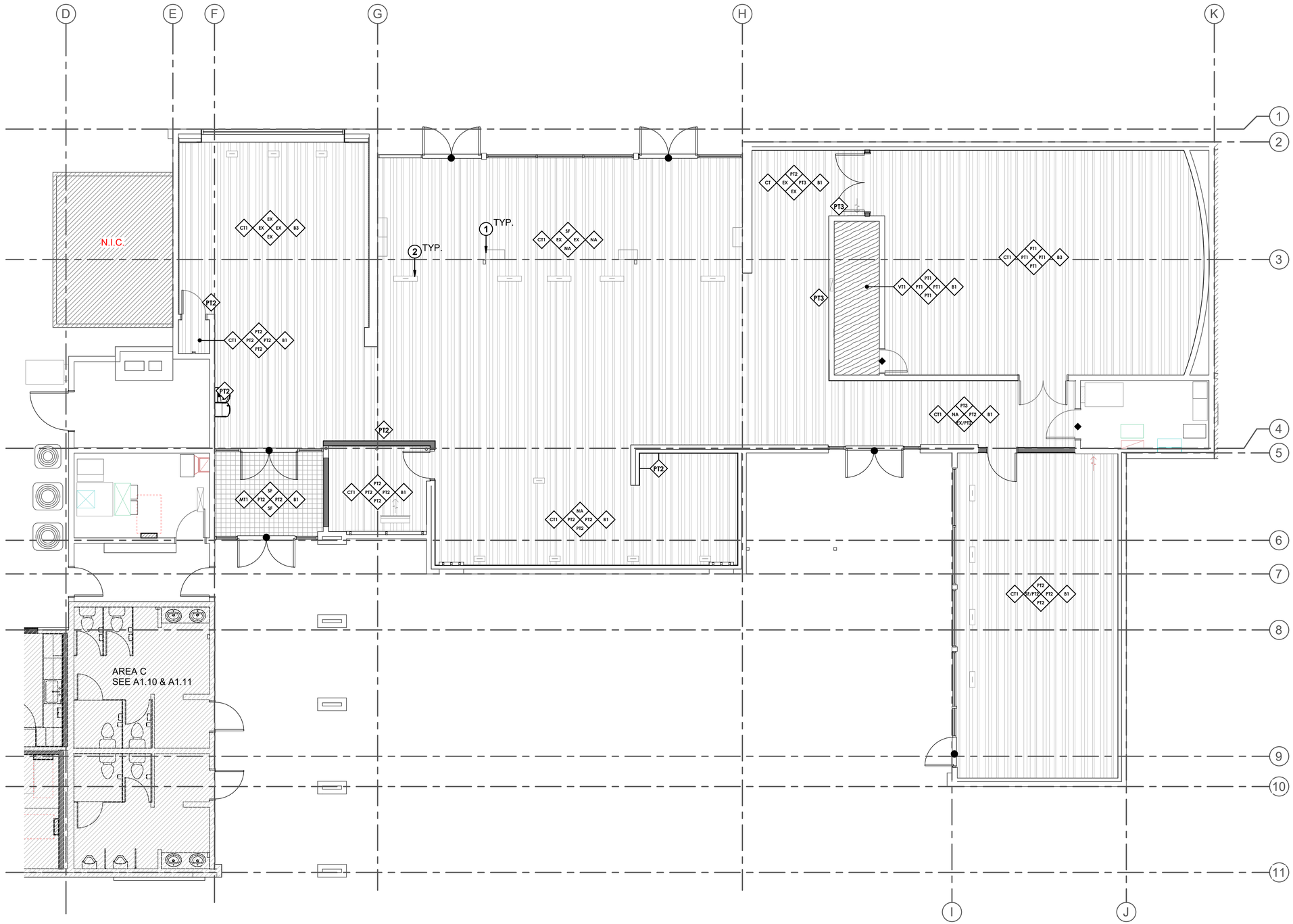
STATE OF UTAH
KENT R. RIGBY
No. 135096
LICENSED ARCHITECT

04/21/2023



KEYPLAN

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	A. LUSCHEN CADD A. LUSCHEN TECH. REVIEW: K. RIGBY DATE: 12/09/2022	A1.3	DIMENSION FLOOR PLAN - AREA A GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 31 OF 113



1 A1.4 FINISH FLOOR PLAN - AREA A

SCALE 3/16" = 1'-0"

GENERAL NOTES:

SEE SHEET G1 FOR DRAWING INDEX.

SEE SHEET G2 FOR SYMBOLS LEGEND AND ABBREVIATIONS.

SEE SHEET G3 FOR GENERAL NOTES.

DO NOT SCALE DRAWINGS.

CONTRACTOR / SUBCONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK, AND SHALL REPORT TO THE ARCHITECT ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.

PROVIDE A SMOOTH ADA COMPLIANT TRANSITION AT ALL CHANGES IN FLOOR MATERIAL.

PROVIDE SOLID BLOCKING/BACKING FOR ALL WALL MOUNTED ACCESSORIES.

FOR ALL FINISH MATERIALS SEE FINISH SCHEDULE.

FOR ACCESSORIES, SEE SCHEDULE. COORDINATE ALL FIXTURES WITH MECHANICAL, PLUMBING, AND ELECTRICAL AS REQUIRED.

FLOOR FINISH SYMBOLS

EXISTING TO REMAIN	EX
CARPET TILE	CT1
WALK-OFF MAT	MT1
VCT TILE (VINYL COMPOSITE TILE)	VT1

CORRESPONDING WALL FINISHES — FLOOR FINISH — FF — NW WW SW EW — BF — BASE FINISH

FLOOR ELECTRICAL OUTLETS	
AIR TERMINALS	
FLOOR TRANSITION STRIPS — MARBLE	◆ 5 / A5.1
ALUMINUM	● 7 / A5.1
RUBBER	◆ 6 / A5.1

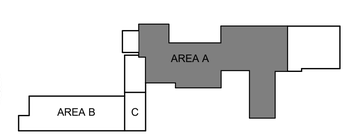
* NOTE: EXISTING SLAB FLOORING IS TO BE PREPPED PER NEW FLOORING REQUIREMENTS.

KEYED NOTES:

1 NEW ELECTRICAL EQUIPMENT, SEE ELECTRICAL
2 EXISTING AIR DIFFUSER IN FLOOR, NEW GRILLES

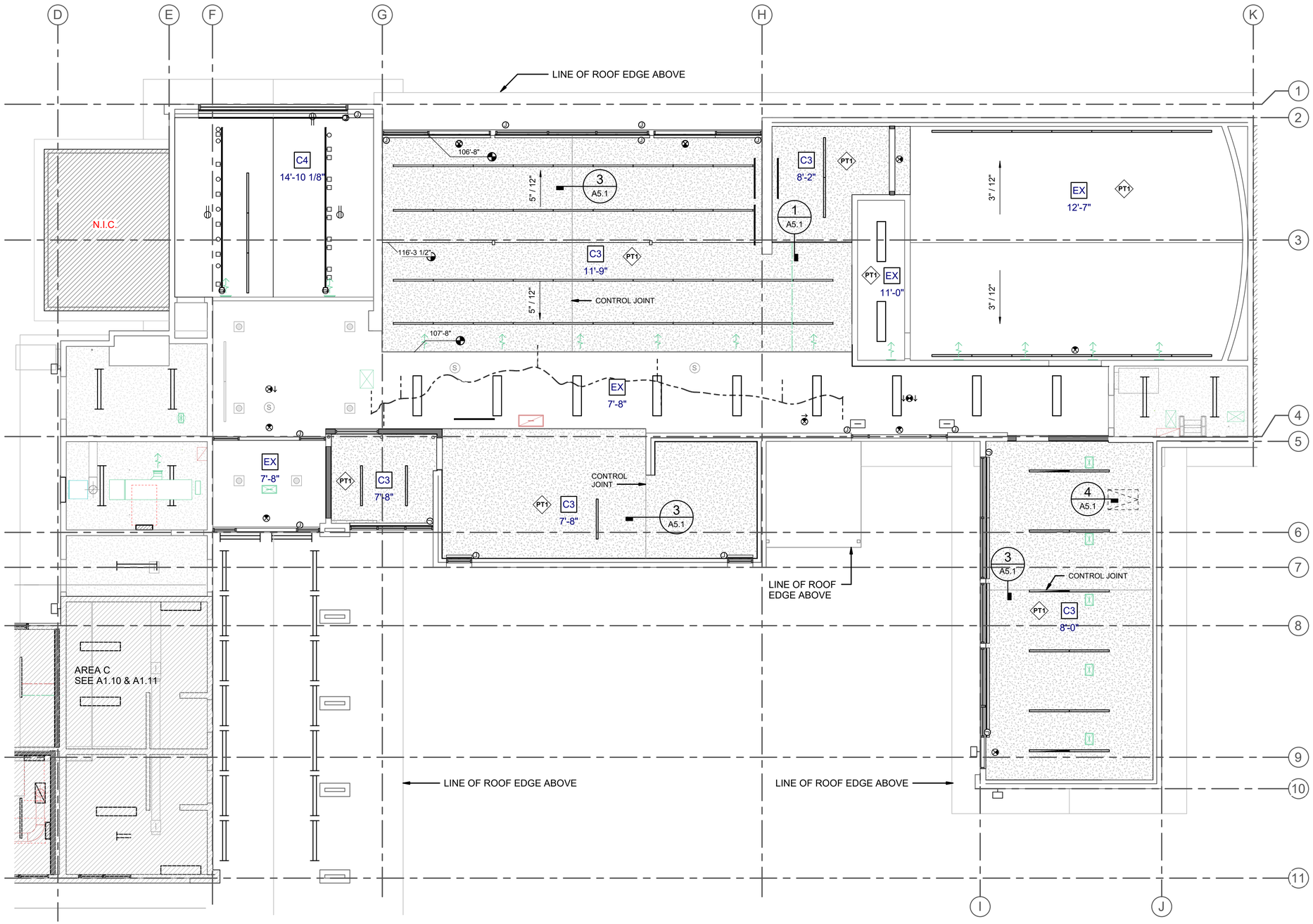
4 0 4 8 12
SCALE OF FEET

STATE OF UTAH — KENT R. RIGBY No. 135096 — LICENSED ARCHITECT
04/21/2023



KEYPLAN

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	A. LUSCHEN CADD A. LUSCHEN TECH. REVIEW: K. RIGBY DATE: 12/09/2022	A1.4	FINISH FLOOR PLAN - AREA A GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 32 OF 113



CEILING NOTES AND LEGEND

SEE SHEET 1 FOR DRAWING INDEX.

SEE SHEET G2 FOR SYMBOLS LEGEND AND ABBREVIATIONS.

SEE SHEET G3 FOR GENERAL NOTES.

DO NOT SCALE DRAWINGS.

CONTRACTOR / SUBCONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK, AND SHALL REPORT TO THE CONTRACTING OFFICER ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.

THIS IS A REFLECTED CEILING PLAN AND IS NOT TO BE INTENDED TO BE A LIGHTING PLAN. NO WALL MOUNTED LIGHTING FIXTURES OR OTHER WALL MOUNTED APPURTENANCES ARE SHOWN. SEE THE LIGHTING PLAN FOR ALL LIGHTING AND EGRESS SIGNS, SIZE AND TYPES OF ELECTRICAL FIXTURES ETC. SEE MECHANICAL PLANS FOR ALL CEILING MOUNTED DIFFUSERS/GRILLES ETC.

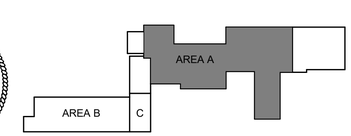
REFLECTED CEILING PLAN LEGEND

EX - EXISTING CEILING	
C3 - FRAMED GYP BOARD CEILING	
C4 - FRAMED GYP BOARD SUBSTRATE WITH CORK CEILING TILE. SEE FINISH SCHEDULE	
4" STRIP LIGHTING FIXTURE. SEE ELECTRICAL PLAN FOR SIZE AND TYPE.	
LINEAR CASE LIGHTING FIXTURE. SEE ELECTRICAL PLAN FOR SIZE AND TYPE.	
LINEAR COVE LIGHTING FIXTURE. SEE ELECTRICAL PLAN FOR SIZE AND TYPE.	
TRACK LIGHT FIXTURES. SEE ELECTRICAL PLAN FOR SIZE AND TYPE.	
EXIT SIGNAGE	
EXISTING LIGHTING FIXTURE TO BE REPLACED. SEE ELECTRICAL PLAN FOR SIZE AND TYPE.	
SUPPLY, RETURN & EXHAUST DIFFUSERS/GRILLES. SEE MECHANICAL.	
ATTIC ACCESS	
EXISTING SPEAKER	S
JBOX	J
ALUMINUM SIGN PER THE DESIGN MINDS. PROVIDE BLOCKING WHERE REQUIRED TO ANCHOR THE SIGN. GC TO COORDINATE.	

4 0 4 8 12
SCALE OF FEET

1 / A1.5 CEILING PLAN - AREA A
SCALE 3/16" = 1'-0"

STATE OF UTAH
KENT R. RIGBY
No. 135096
LICENSED ARCHITECT
04/21/2023



KEYPLAN

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	A. LUSCHEN A. LUSCHEN TECH. REVIEW: K. RIGBY DATE: 12/09/2022	A1.5	REFLECTED CEILING PLAN - AREA A GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 / 175345 PMIS/PKG NO. 308441 SHEET 33 OF 113

GENERAL NOTES:

SEE SHEET G1 FOR DRAWING INDEX.

SEE SHEET G2 FOR SYMBOLS LEGEND AND ABBREVIATIONS.

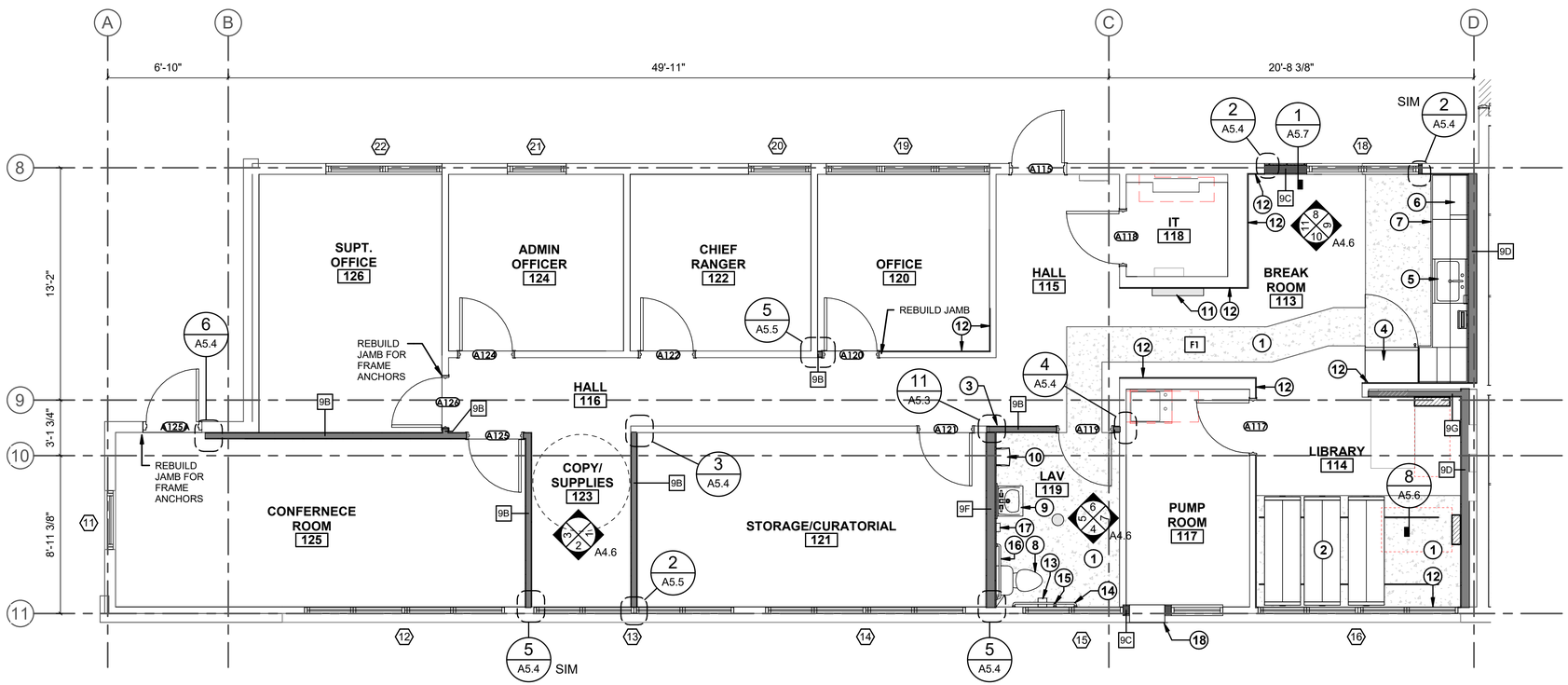
SEE SHEET G3 FOR GENERAL NOTES AND LEGEND.

DO NOT SCALE DRAWINGS.

CONTRACTOR / SUBCONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK, AND SHALL REPORT TO THE CONTRACTING OFFICER ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.

KEYED NOTES:

1. NEW CONCRETE SLAB POUR BACK, FINISH FLUSH
2. SPACE SAVER SHELVING AND FLOOR TRACKS
3. FINISH WALLS FLUSH.
4. REFRIGERATOR
5. SINK
6. CASEWORK, UPPERS
7. CASEWORK, LOWERS
8. TOILET
9. SINK AND FAUCET, SEE PLUMBING DRAWINGS.
10. PAPER TOWEL DISPENSER, SEE ACCESSORY SCHEDULE.
11. RELOCATED FIRST AID KIT
12. NEW GYPSUM BOARD FINISH
13. TOILET TISSUE DISPENSER, SEE ACCESSORY SCHEDULE.
14. 42" S.S. GRAB BAR, SEE ACCESSORY SCHEDULE
15. 18" VERTICAL S.S. GRAB BAR, SEE ACCESSORY SCHEDULE
16. 36" S.S. GRAB BAR, SEE ACCESSORY SCHEDULE
17. SOAP DISPENSER, SEE ACCESSORY SCHEDULE.
18. MECHANICAL LOUVER, SEE MECHANICAL DRAWINGS.



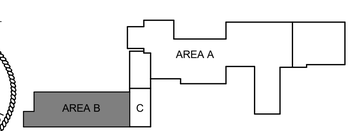
1 / A1.6 ANNOTATED FLOOR PLAN - AREA B - ADD ALTERNATE

SCALE 1/4" = 1'-0"

4 0 4 8 12

SCALE OF FEET

STATE OF UTAH
KENT B. RIGBY
No. 135090
LICENSED ARCHITECT
04/21/2023



KEYPLAN

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	A. LUSCHEN CADD A. LUSCHEN TECH. REVIEW: K. RIGBY DATE: 12/09/2022	A1.6	ANNOTATED FLOOR PLAN - AREA B - ADD ALTERNATE GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 / 175345 PMIS/PKG NO. 308441 SHEET 34 OF 113

GENERAL NOTES:

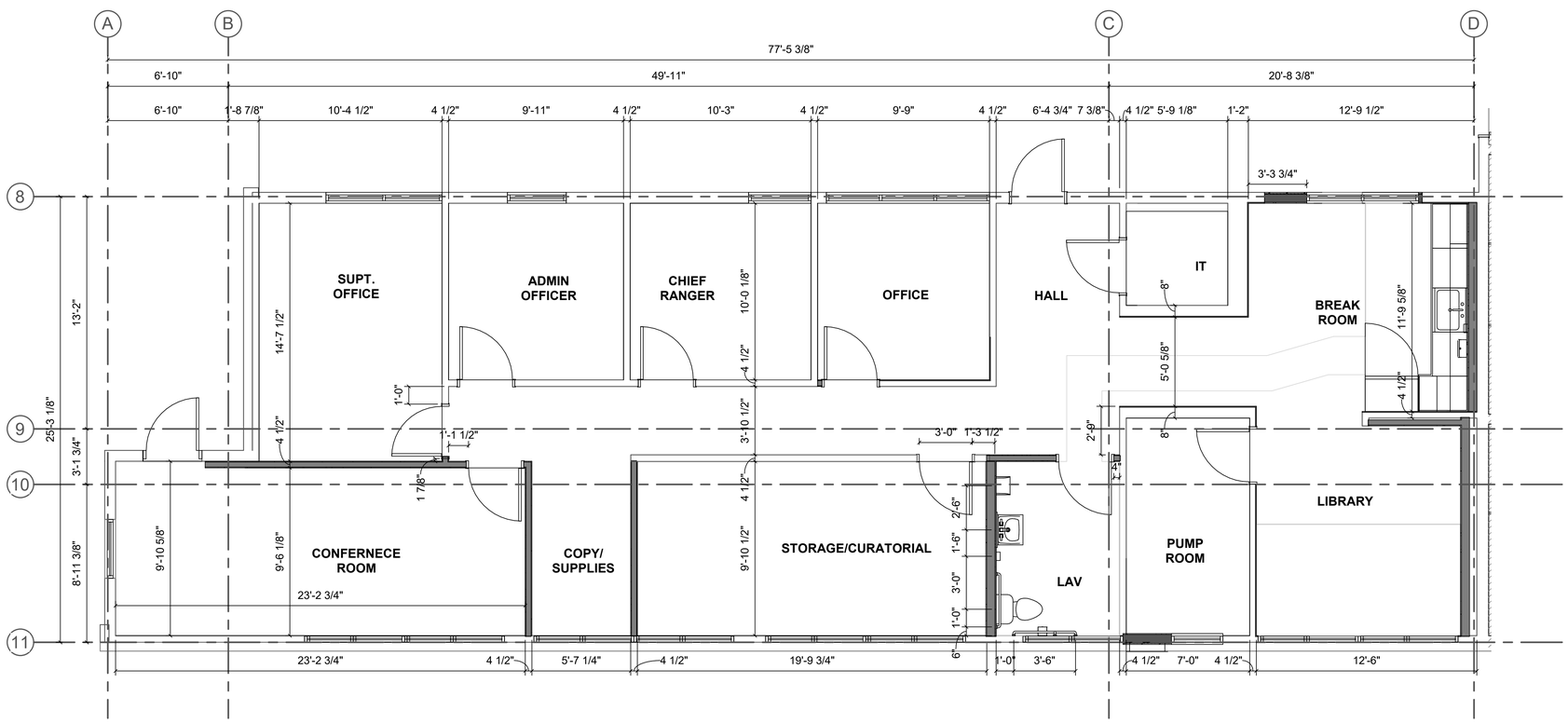
SEE SHEET G1 FOR DRAWING INDEX.

SEE SHEET G2 FOR SYMBOLS LEGEND AND ABBREVIATIONS.

SEE SHEET G3 FOR GENERAL NOTES AND LEGEND.

DO NOT SCALE DRAWINGS.

CONTRACTOR / SUBCONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK, AND SHALL REPORT TO THE CONTRACTING OFFICER ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.



1 / A1.7 DIMENSIONED FLOOR PLAN - AREA B - ADD ALTERNATE

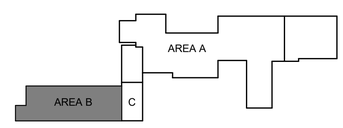
SCALE 1/4" = 1'-0"

4 0 4 8

SCALE OF FEET

STATE OF UTAH
KENT R. RIGBY
No. 1350966
LICENSED ARCHITECT

04/21/2023



KEYPLAN

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	A. LUSCHEN CADD A. LUSCHEN TECH. REVIEW: K. RIGBY DATE: 12/09/2022	A1.7	DIMENSION FLOOR PLAN - AREA B - ADD ALTERNATE GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 / 175345 PMIS/PKG NO. 308441 SHEET 35 OF 113

GENERAL NOTES:

SEE SHEET G1 FOR DRAWING INDEX.

SEE SHEET G2 FOR SYMBOLS LEGEND AND ABBREVIATIONS.

SEE SHEET G3 FOR GENERAL NOTES.

DO NOT SCALE DRAWINGS.

CONTRACTOR / SUBCONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK, AND SHALL REPORT TO THE ARCHITECT ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.

PROVIDE A SMOOTH ADA COMPLIANT TRANSITION AT ALL CHANGES IN FLOOR MATERIAL.

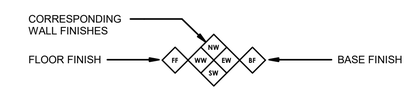
PROVIDE SOLID BLOCKING/BACKING FOR ALL WALL MOUNTED ACCESSORIES.

FOR ALL FINISH MATERIALS SEE FINISH SCHEDULE.

FOR ACCESSORIES, SEE SCHEDULE. COORDINATE ALL FIXTURES WITH MECHANICAL, PLUMBING, AND ELECTRICAL AS REQUIRED.

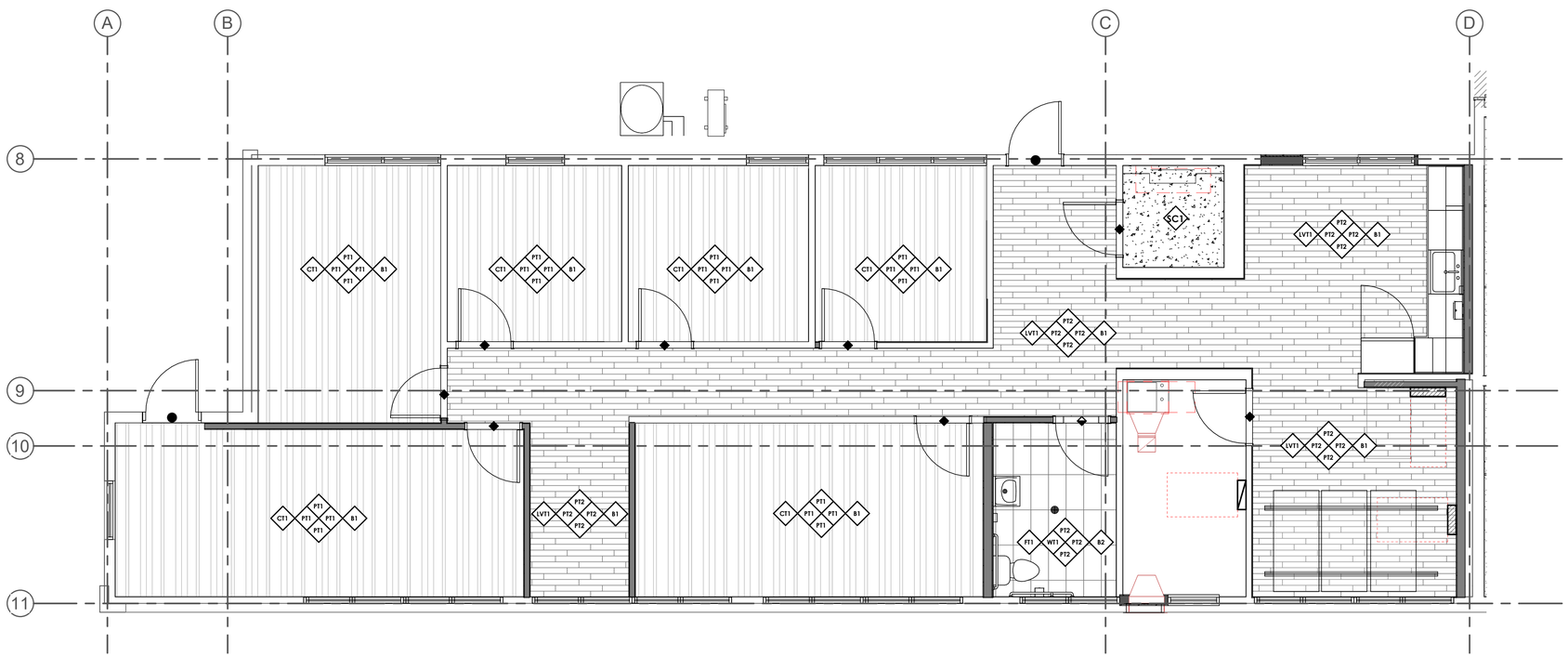
FLOOR FINISH SYMBOLS

EXISTING FLOORING TO REMAIN	
CARPET TILE	CT1
LUXURY VINYL TILE	VT1
SEALED CONCRETE	SC1
FLOOR TILE	FT1



FLOOR TRANSITION STRIPS	MARBLE	5 / A5.1
	ALUMINUM	7 / A5.1
	RUBBER	6 / A5.1

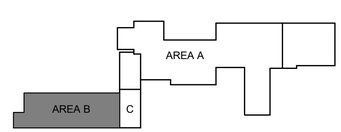
* NOTE: EXISTING SLAB FLOORING IS TO BE PREPPED PER NEW FLOORING REQUIREMENTS.



4 0 4 8
SCALE OF FEET

1 / A1.8 FINISH FLOOR PLAN - AREA B - ADD ALTERNATE
SCALE 1/4" = 1'-0"

STATE OF UTAH
KENT R. RIGBY
No. 135096
LICENSED ARCHITECT
04/21/2023



KEYPLAN

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	A. LUSCHEN CADD A. LUSCHEN TECH. REVIEW: K. RIGBY DATE: 12/09/2022	A1.8	FINISH FLOOR PLAN - AREA B - ADD ALTERNATE GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 / 175345 PMIS/PKG NO. 308441 SHEET 36 OF 113

CEILING NOTES AND LEGEND

SEE SHEET 1 FOR DRAWING INDEX.

SEE SHEET G2 FOR SYMBOLS LEGEND AND ABBREVIATIONS.

SEE SHEET G3 FOR GENERAL NOTES.

DO NOT SCALE DRAWINGS.

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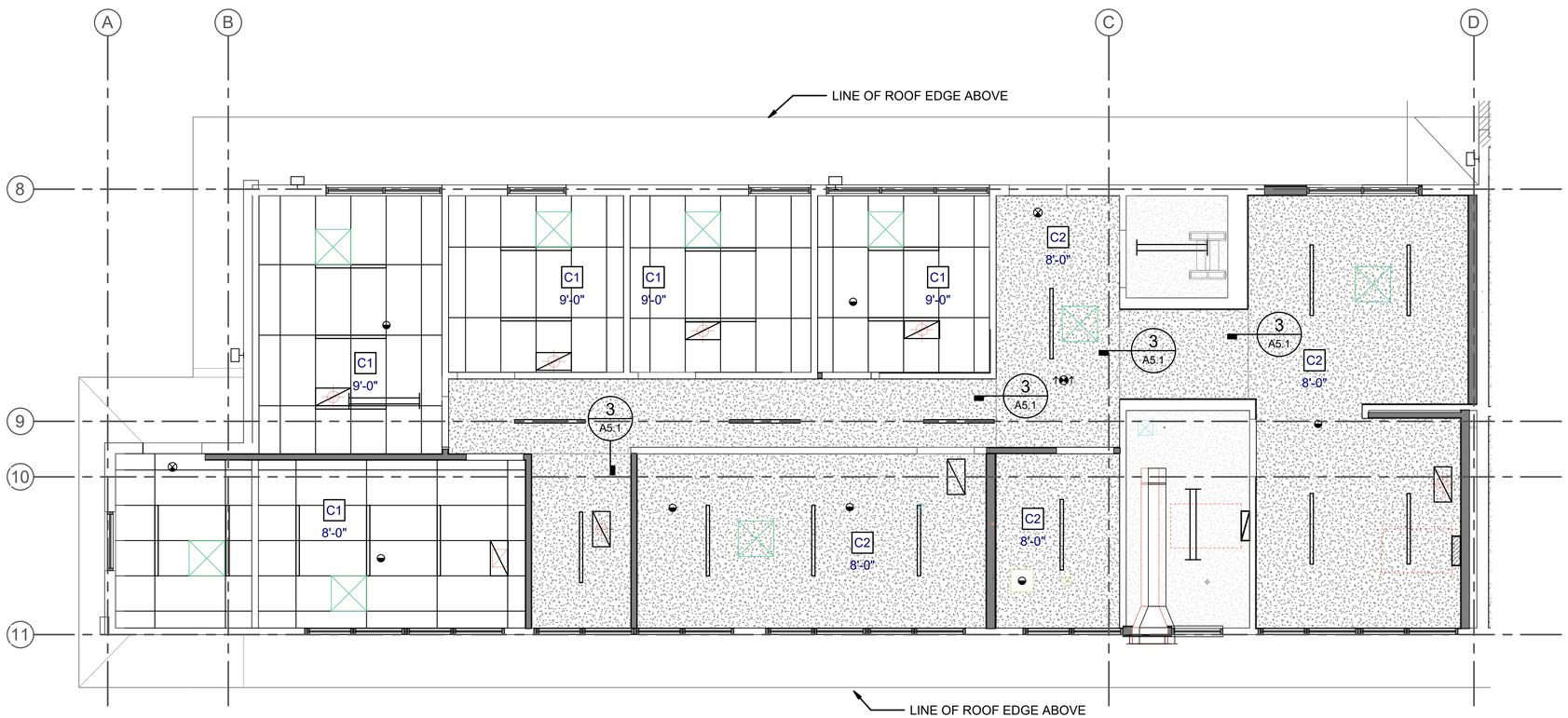
REFLECTED CEILING PLAN LEGEND

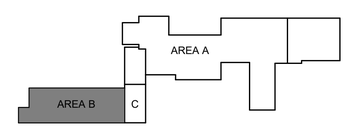
EX - EXISTING CEILING, REPAINT	
C1 - ACOUSTICAL CEILING	
C2 - SUSPENDED GYP BOARD CEILING - PAINTED	
4" STRIP LIGHTING FIXTURE. SEE ELECTRICAL PLAN FOR SIZE AND TYPE.	
LINEAR LIGHTING FIXTURE. SEE ELECTRICAL PLAN FOR SIZE AND TYPE.	
SUPPLY, RETURN & EXHAUST DIFFUSERS/GRILLES. SEE MECHANICAL.	
EXIT SIGNAGE	



4 0 4 8
SCALE OF FEET

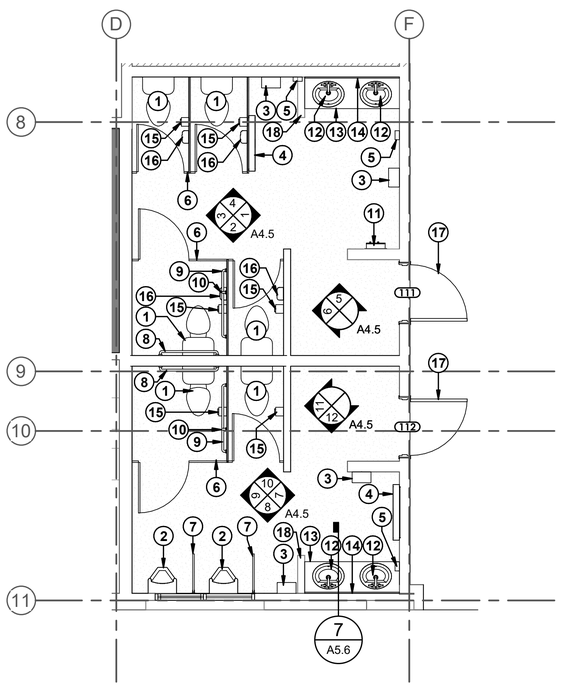
1 / A1.9 REFLECTED CEILING PLAN - AREA B - ADD ALTERNATE
SCALE 1/4" = 1'-0"

STATE OF UTAH
KENT R. RIGBY
No. 135096
LICENSED ARCHITECT
04/21/2023

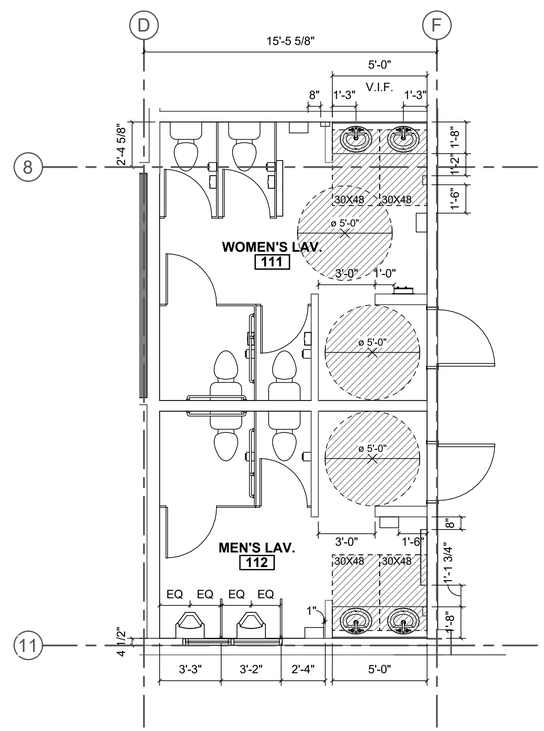


KEYPLAN

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	A. LUSCHEN DADP A. LUSCHEN TECH. REVIEW: K. RIGBY DATE: 12/09/2022	A1.9	REFLECTED CEILING PLAN - AREA B - ADD ALTERNATE GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 37 OF 113



1 A1.10 ANNOTATED FLOOR PLAN - AREA C
SCALE 1/4" = 1'-0"



2 A1.10 DIMENSION FLOOR PLAN - AREA C
SCALE 1/4" = 1'-0"

GENERAL NOTES:

SEE SHEET G1 FOR DRAWING INDEX.

SEE SHEET G2 FOR SYMBOLS LEGEND AND ABBREVIATIONS.

SEE SHEET G3 FOR GENERAL NOTES AND LEGEND.

DO NOT SCALE DRAWINGS.

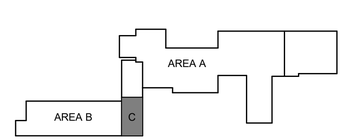
CONTRACTOR / SUBCONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK, AND SHALL REPORT TO THE CONTRACTING OFFICER ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.

NOTE: ALL NEW BATHROOM FIXTURES TO REPLACE EXISTING FIXTURES, VERIFY DIMENSIONS IN FIELD.

KEYED NOTES:

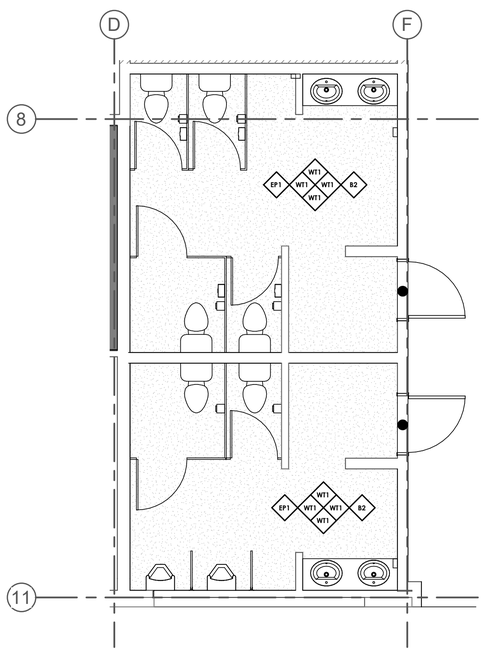
1. TOILET
2. URINAL
3. HAND DRYER, SEE ELECTRICAL DRAWINGS.
4. BABY CHANGING STATION, SEE ACCESSORY SCHEDULE
5. SOAP DISPENSER, SEE ACCESSORY SCHEDULE.
6. SOLID PLASTIC TOILET COMPARTMENTS
7. SOLID PLASTIC URINAL PARTITION
8. 36" S.S. GRAB BAR, SEE ACCESSORY SCHEDULE
9. 42" S.S. GRAB BAR, SEE ACCESSORY SCHEDULE
10. 18" VERTICAL S.S. GRAB BAR, SEE ACCESSORY SCHEDULE
11. SANITARY NAPKIN DISPENSER, SEE ACCESSORY SCHEDULE.
12. SINK AND FAUCET, SEE PLUMBING DRAWINGS.
13. SOLID SURFACE COUNTERTOP
14. MIRROR, BOTTOM OF REFLECTIVE SURFACE @ 40" A.F.F. MAX. SEE ACCESSORY SCHEDULE.
15. TOILET TISSUE DISPENSER, SEE ACCESSORY SCHEDULE.
16. SANITARY NAPKIN DISPOSAL UNIT, SEE ACCESSORY SCHEDULE.
17. NEW DOOR AND FRAME, SEE DOOR SCHEDULE
18. PONY WALL

STATE OF UTAH
KENT B. RIGBY
No. 135096
LICENSED ARCHITECT
04/21/2023

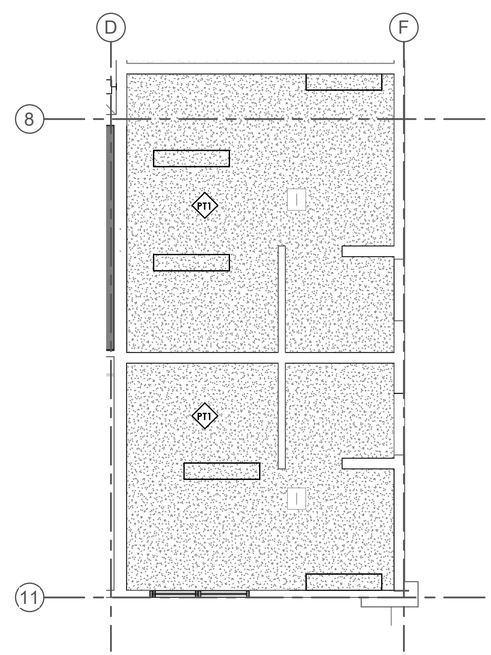


KEYPLAN

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	A. LUSCHEN DADP A. LUSCHEN TECH. REVIEW: K. RIGBY DATE: 12/09/2022	A1.10	ANNOTATED FLOOR PLAN AND DIMENSION PLAN - AREA C GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 38 OF 113



1 A1.11 FINISH FLOOR PLAN - AREA C
SCALE 1/4" = 1'-0"



2 A1.11 REFLECTED CEILING PLAN - AREA C
SCALE 1/4" = 1'-0"

GENERAL NOTES:

SEE SHEET G1 FOR DRAWING INDEX.

SEE SHEET G2 FOR SYMBOLS LEGEND AND ABBREVIATIONS.

SEE SHEET G3 FOR GENERAL NOTES.

DO NOT SCALE DRAWINGS.

CONTRACTOR / SUBCONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK, AND SHALL REPORT TO THE ARCHITECT ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.

PROVIDE A SMOOTH ADA COMPLIANT TRANSITION AT ALL CHANGES IN FLOOR MATERIAL.

PROVIDE SOLID BLOCKING/BACKING FOR ALL WALL MOUNTED ACCESSORIES.

FOR ALL FINISH MATERIALS SEE FINISH SCHEDULE.

FOR ACCESSORIES, SEE SCHEDULE. COORDINATE ALL FIXTURES WITH MECHANICAL, PLUMBING, AND ELECTRICAL AS REQUIRED.

REFLECTED CEILING PLAN LEGEND

EXISTING CEILING, REPAINT

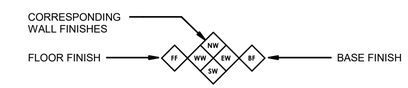
4" STRIP LIGHTING FIXTURE. SEE ELECTRICAL PLAN FOR SIZE AND TYPE.

EXISTING LIGHTING FIXTURE TO BE REPLACED. SEE ELECTRICAL PLAN FOR SIZE AND TYPE.

SUPPLY, RETURN & EXHAUST DIFFUSERS/GRILLES. SEE MECHANICAL.

FLOOR FINISH LEGEND:

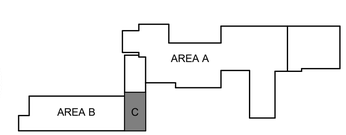
EPOXY PAINT — EP1



FLOOR TRANSITION STRIPS — ALUMINUM ● 7 / A5.1

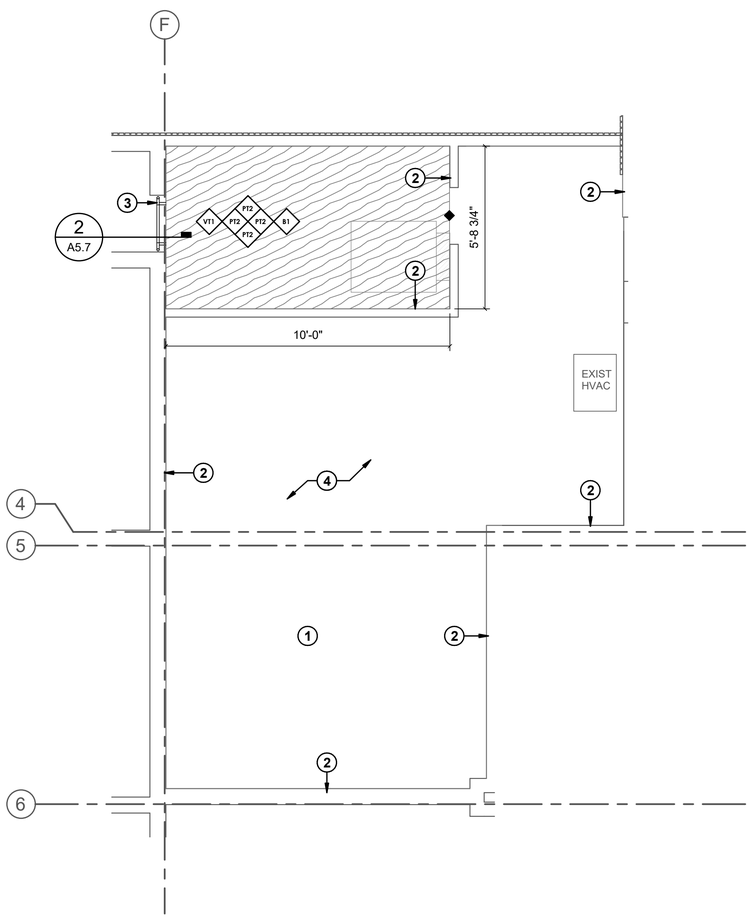
* NOTE: EXISTING SLAB FLOORING IS TO BE PREPPED PER NEW FLOORING REQUIREMENTS.

STATE OF UTAH
KENT R. RIGBY
No. 135996
LICENSED ARCHITECT
04/21/2023



KEYPLAN

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	A. LUSCHEN CADD A. LUSCHEN TECH. REVIEW: K. RIGBY DATE: 12/09/2022	A1.11	FINISH FLOOR PLAN AND RCP - AREA C GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 39 OF 113



2 / A1.12 ANNOTATED, DIMENSION, AND FINISH MEZZANINE FLOOR PLAN

SCALE 3/8" = 1'-0"

GENERAL NOTES:

SEE SHEET G1 FOR DRAWING INDEX.

SEE SHEET G2 FOR SYMBOLS LEGEND AND ABBREVIATIONS.

SEE SHEET G3 FOR GENERAL NOTES AND LEGEND.

DO NOT SCALE DRAWINGS.

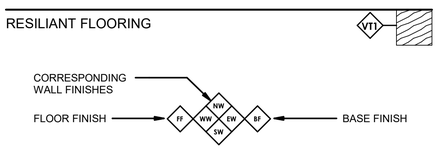
CONTRACTOR / SUBCONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK, AND SHALL REPORT TO THE CONTRACTING OFFICER ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.

KEYED NOTES:

1. EXISTING FLOOR TO REMAIN
2. EXISTING WALL TO REMAIN
3. EXISTING LADDER TO REMAIN, REPAINT
4. ASBESTOS CONTAINING MATERIALS, SEE ASBESTOS AND LEAD SURVEY TO VERIFY

FLOOR FINISH LEGEND:

RESILIANT FLOORING



FLOOR TRANSITION STRIPS RUBBER ◆ 6 / A5.1

STATE OF UTAH
KENT R. RIGBY
No. 135096
LICENSED ARCHITECT
04/21/2023

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	A. LUSCHEN CADD A. LUSCHEN TECH. REVIEW: K. RIGBY DATE: 12/09/2022	A1.12	ANNOTATED FLOOR PLAN - MEZZANINE GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 40 OF 113

GENERAL NOTES:

SEE SHEET G1 FOR DRAWING INDEX.

SEE SHEET G2 FOR SYMBOLS LEGEND AND ABBREVIATIONS.

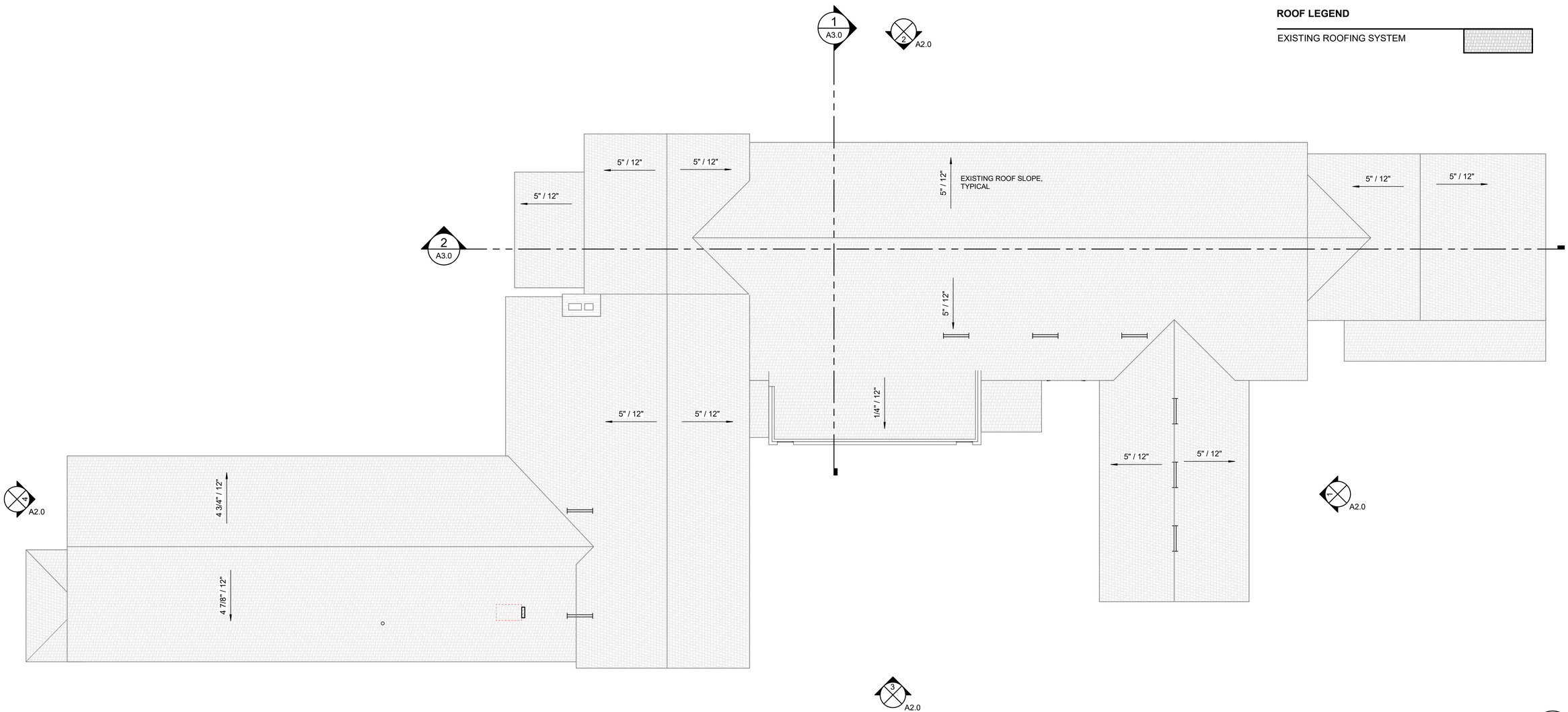
SEE SHEET G3 FOR GENERAL NOTES AND LEGEND.

DO NOT SCALE DRAWINGS.

CONTRACTOR / SUBCONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK, AND SHALL REPORT TO THE CONTRACTING OFFICER ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.

ROOF LEGEND

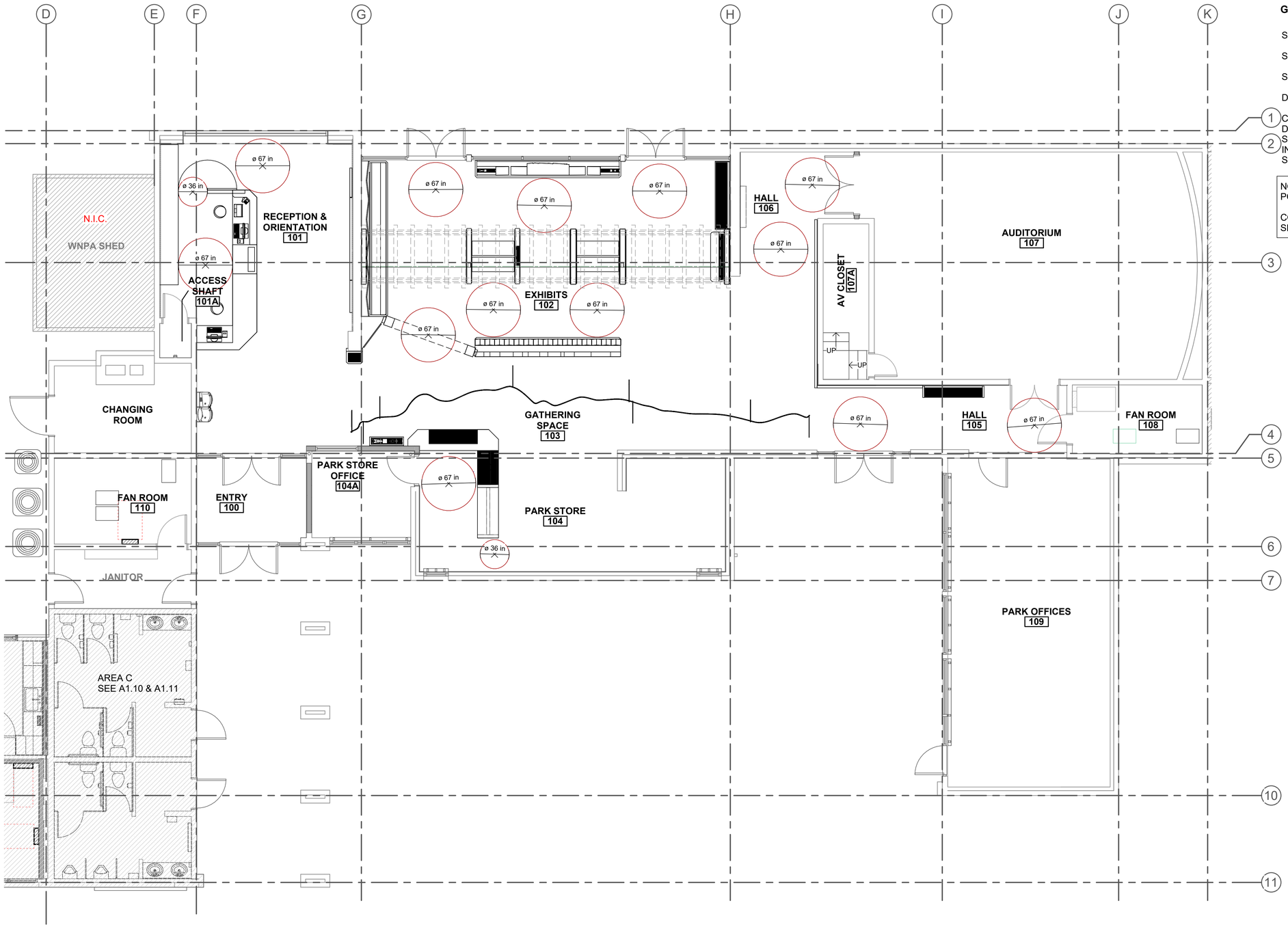
EXISTING ROOFING SYSTEM



1 A1.13 ROOF PLAN
SCALE 1/8" = 1'-0"

STATE OF UTAH
KENT R. RIGBY
No. 135098
LICENSED ARCHITECT
04/21/2023

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	A. LUSCHEN CADD A. LUSCHEN TECH. REVIEW: K. RIGBY DATE: 12/09/2022	A1.13	ROOF PLAN	431 / 175345
				PMIS/PKG NO. 308441
			GOLDEN SPIKE NATIONAL HISTORICAL PARK	SHEET 41 OF 113



GENERAL NOTES:

SEE SHEET G1 FOR DRAWING INDEX.

SEE SHEET G2 FOR SYMBOLS LEGEND AND ABBREVIATIONS.

SEE SHEET G3 FOR GENERAL NOTES AND LEGEND.

DO NOT SCALE DRAWINGS.

1 2 CONTRACTOR / SUBCONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK, AND SHALL REPORT TO THE CONTRACTING OFFICER ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.

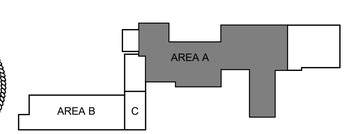
NOTE: EXHIBITS BY OTHER (THE DESIGN MINDS). COORDINATE POWER AND DATA REQUIRED FOR EXHIBITS.

CONTRACTOR TO REFER TO THE DESIGN MINDS DRAWINGS SET PROVIDED BY THE NATIONAL PARK SERVICE.

4 0 4 8 12
SCALE OF FEET

1 / A1.14 THE DESIGN MINDS EXHIBIT LAYOUT - REFERENCE ONLY
SCALE 3/16" = 1'-0"

STATE OF UTAH
KENT R. RIGBY
No. 135098
LICENSED ARCHITECT
04/21/2023



KEYPLAN

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	A. LUSCHEN CADD A. LUSCHEN TECH. REVIEW: K. RIGBY DATE: 12/09/2022	A1.14	THE DESIGN MINDS EXHIBIT LAYOUT GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 / 175345 PMIS/PKG NO. 308441 SHEET 42 OF 113

GENERAL NOTES:

SEE SHEET G1 FOR DRAWING INDEX.

SEE SHEET G2 FOR SYMBOLS LEGEND AND ABBREVIATIONS.

SEE SHEET G3 FOR GENERAL NOTES AND LEGEND.

DO NOT SCALE DRAWINGS.

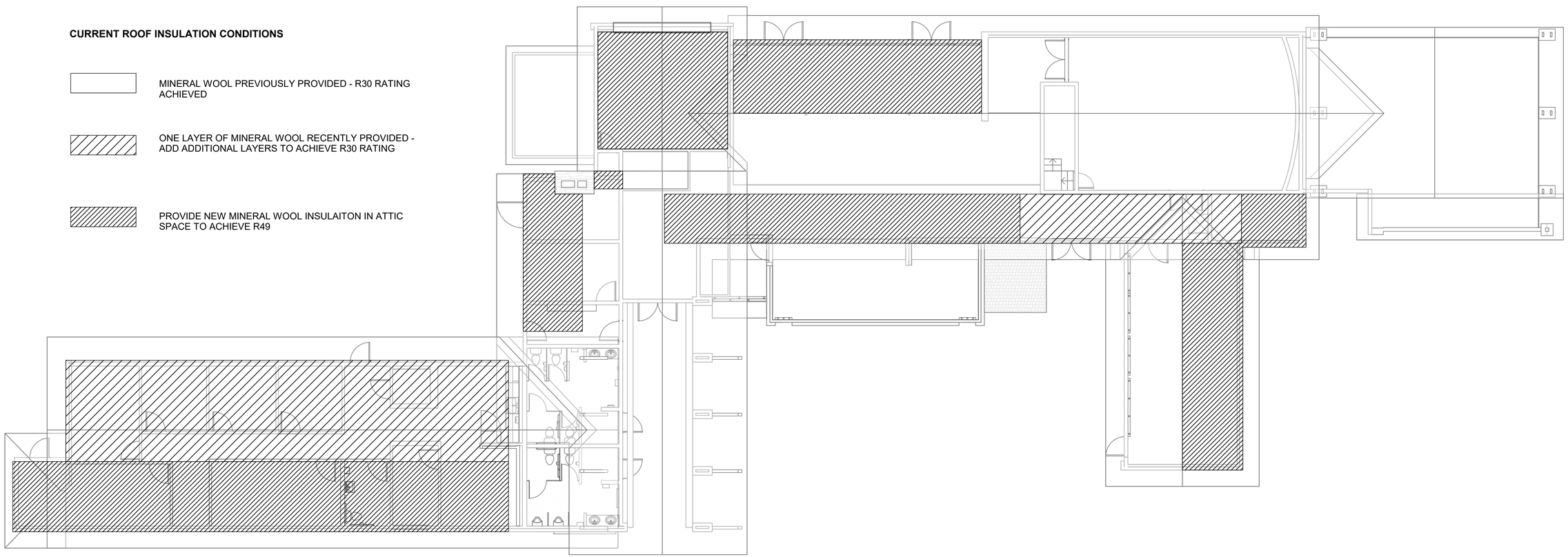
CONTRACTOR / SUBCONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK, AND SHALL REPORT TO THE CONTRACTING OFFICER ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.

CURRENT ROOF INSULATION CONDITIONS

MINERAL WOOL PREVIOUSLY PROVIDED - R30 RATING ACHIEVED

ONE LAYER OF MINERAL WOOL RECENTLY PROVIDED - ADD ADDITIONAL LAYERS TO ACHIEVE R30 RATING

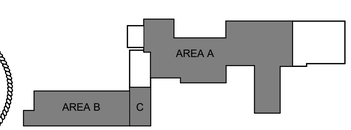
PROVIDE NEW MINERAL WOOL INSULAITON IN ATTIC SPACE TO ACHIEVE R49



1 A1.15 ROOF INSULATION PLAN

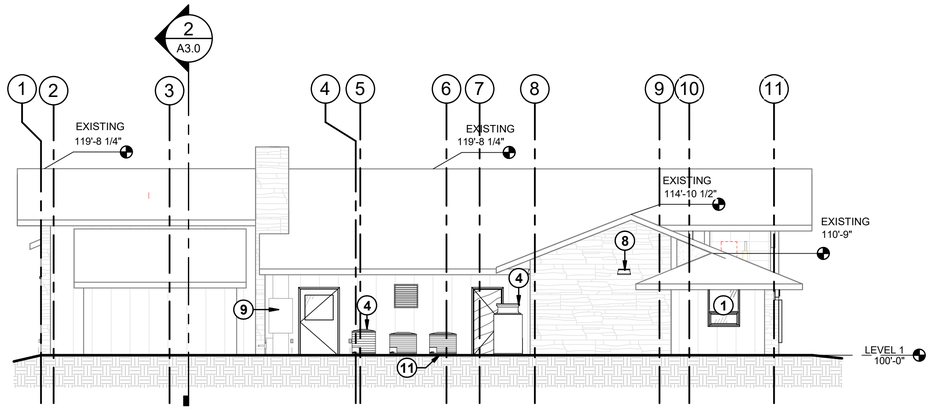
SCALE 1/8" = 1'-0"

STATE OF UTAH
KENT B. RIGBY
No. 135096
LICENSED ARCHITECT
04/21/2023

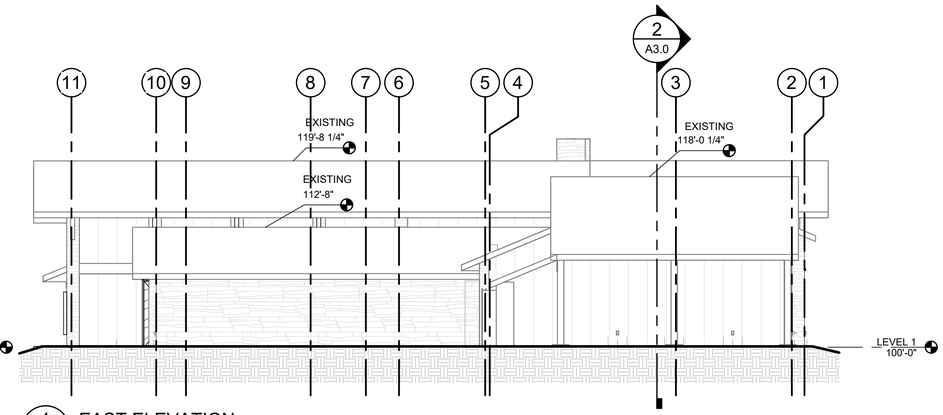


KEYPLAN

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	A.LUSCHEN CADD A.LUSCHEN TECH. REVIEW: K. RIGBY DATE: 12/09/2022	A1.15	ROOF INSULATION PLAN GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 43 OF 113



4 A2.0 WEST ELEVATION
SCALE 1/8" = 1'-0"



1 A2.0 EAST ELEVATION
SCALE 1/8" = 1'-0"

GENERAL NOTES:

SEE SHEET G1 FOR DRAWING INDEX.

SEE SHEET G2 FOR SYMBOLS LEGEND AND ABBREVIATIONS.

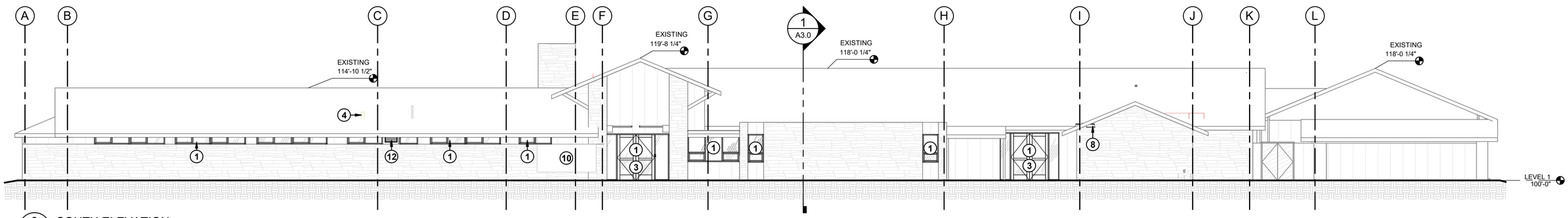
SEE SHEET G3 FOR GENERAL NOTES AND LEGEND.

DO NOT SCALE DRAWINGS.

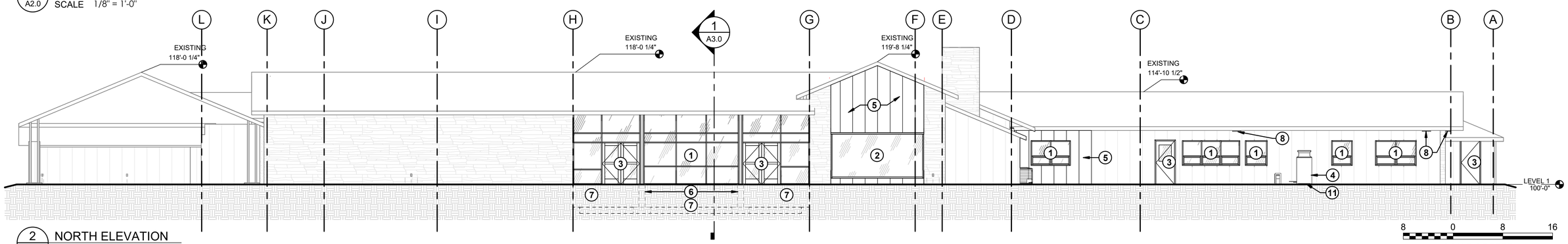
CONTRACTOR / SUBCONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK, AND SHALL REPORT TO THE CONTRACTING OFFICER ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.

KEYED NOTES:

1. NEW THERMALLY BROKEN STOREFRONT SYSTEM. SEE WINDOW TYPES
2. NEW PICTURE WINDOW, SEE WINDOW TYPES
3. NEW DOOR AND FRAME, SEE DOOR SCHEDULE
4. MECHANICAL EQUIPMENT, SEE MECHANICAL DRAWINGS
5. NEW EXTERIOR CEDAR SIDING, BOARD AND GAP, MATCH EXISTING. FOR WALL ASSEMBLY TYP, REFER TO ANNOTATED FLOOR PLANS
6. EXISTING CONCRETE PIERS AND FOOTINGS
7. NEW FOUNDATION WALL AND FOOTINGS
8. NEW ELECTRICAL FIXTURE, SEE ELECTRICAL
9. NEW ELECTRICAL EQUIPMENT, SEE ELECTRICAL
10. EXISTING NATIONAL PARK SERVICE SIGNAGE
11. GALVANIZED STEEL PAD FOR MECHANICAL EQUIPMENT, SEE MECHANICAL
12. MECHANICAL LOUVER, SEE MECHANICAL DRAWINGS.



3 A2.0 SOUTH ELEVATION
SCALE 1/8" = 1'-0"

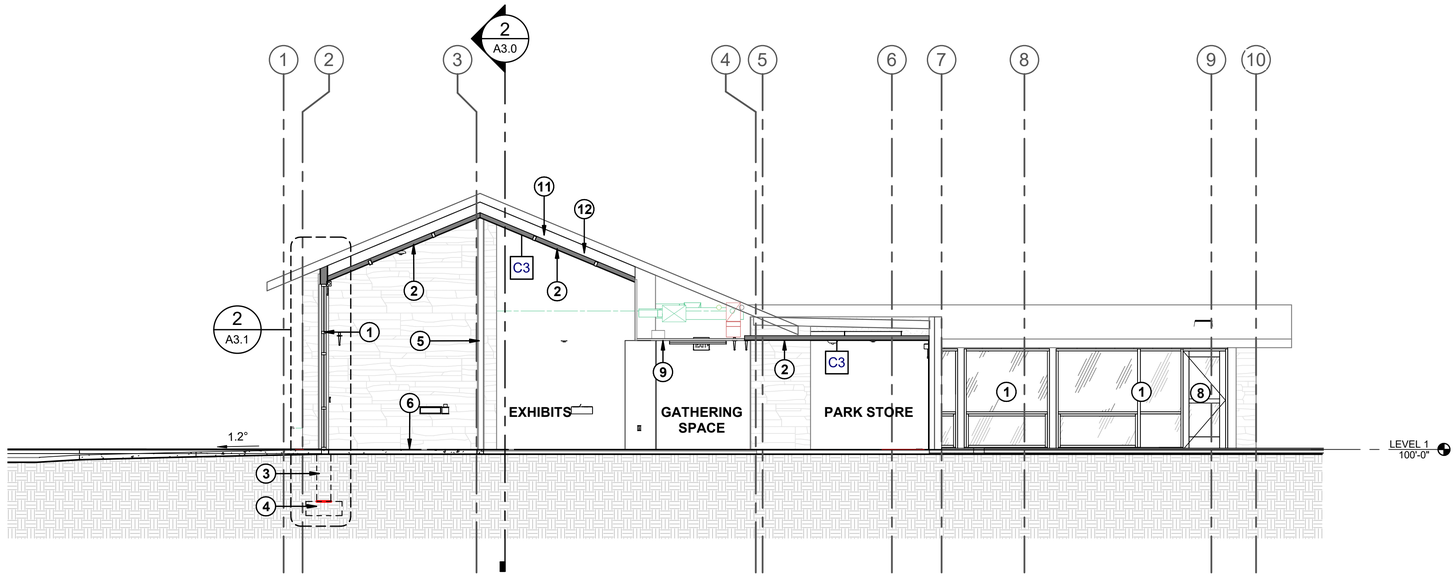


2 A2.0 NORTH ELEVATION
SCALE 1/8" = 1'-0"

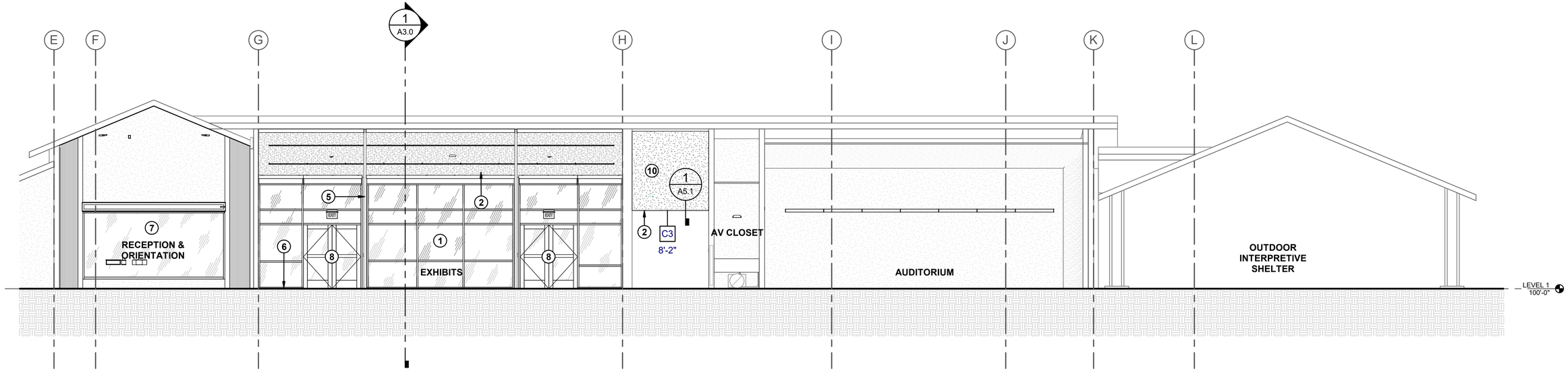
8 0 8 16
SCALE OF FEET

STATE OF UTAH
KENT R. RIGBY
No. 135096
LICENSED ARCHITECT
04/21/2023

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	A. LUSCHEN CADD A. LUSCHEN TECH. REVIEW: K. RIGBY DATE: 12/09/2022	A2.0	BUILDING ELEVATIONS GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 44 OF 113



1 A3.0 SECTION 1
SCALE 3/16" = 1'-0"



2 A3.0 SECTION 2
SCALE 3/16" = 1'-0"

GENERAL NOTES:

SEE SHEET G1 FOR DRAWING INDEX.

SEE SHEET G2 FOR SYMBOLS LEGEND AND ABBREVIATIONS.

SEE SHEET G3 FOR GENERAL NOTES AND LEGEND.

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CONTRACTOR / SUBCONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK, AND SHALL REPORT TO THE CONTRACTING OFFICER ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.

KEYED NOTES:

1 NEW THERMALLY BROKEN STOREFRONT SYSTEM. SEE WINDOW TYPES
2 NEW CEILING SYSTEM
3 NEW CONCRETE FOUNDATION WALL
4 NEW CONCRETE FOOTING
5 EXISTING COLUMN TO REMAIN, TYP, REPAINT
6 NEW CONCRETE SLAB ON GRADE
7 NEW PICTURE WINDOW, SEE WINDOW TYPES
8 NEW DOOR AND FRAME, SEE DOOR SCHEDULE
9 EXISTING CEILING TO REMAIN
10 NEW GYPSUM BOARD SOFFIT
11 VAULTED VENT CHANNELS
12 MINERAL WOOL INSULATION

STATE OF UTAH
KENT R. RIGBY
No. 135996
LICENSED ARCHITECT
04/21/2023

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	A. LUSCHEN CADD A. LUSCHEN TECH. REVIEW: K. RIGBY DATE: 12/09/2022	A3.0	BUILDING SECTIONS GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 45 OF 113

GENERAL NOTES:

SEE SHEET G1 FOR DRAWING INDEX.

SEE SHEET G2 FOR SYMBOLS LEGEND AND ABBREVIATIONS.

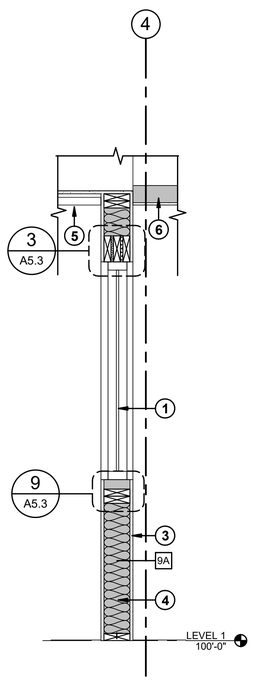
SEE SHEET G3 FOR GENERAL NOTES AND LEGEND.

DO NOT SCALE DRAWINGS.

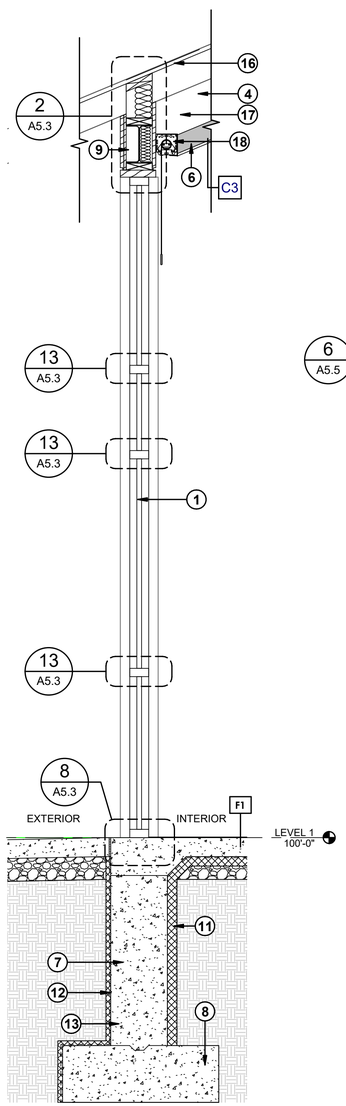
CONTRACTOR / SUBCONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK, AND SHALL REPORT TO THE CONTRACTING OFFICER ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.

KEYED NOTES:

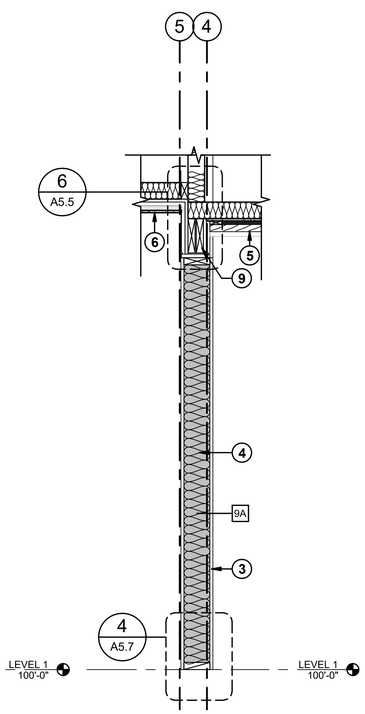
1. NEW THERMALLY BROKEN STOREFRONT SYSTEM. SEE WINDOW TYPES
2. NEW DOOR AND FRAME, SEE DOOR SCHEDULE
3. 5/8" GYPSUM BOARD, SEE DETAILS & SPECIFICATION
4. MINERAL WOOL INSULATION
5. EXISTING WOOD SLAT CEILING
6. SUSPENDED GYPSUM CEILING SYSTEM
7. NEW CONCRETE FOUNDATION WALL
8. NEW CONCRETE FOOTING
9. EXISTING BEAM
10. EXISTING WALL, REPAINT
11. RIGID INSULATION.
12. DAMPPROOFING
13. PROTECTION BOARD.
14. VALENCE WALL
15. EXISTING SOFFIT FRAMING
16. VAULTED VENT CHANNELS
17. COORDINATE CAVITY W/ FIRE SPRINKLER LINE
18. ROLLER SHADES, MOTORIZED



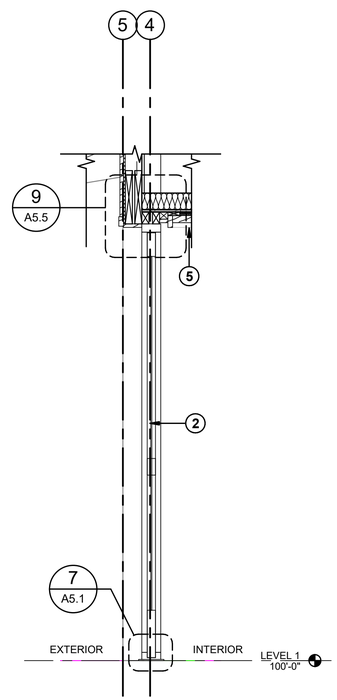
1 A3.1 PARK STORE WALL
SCALE 3/4" = 1'-0"



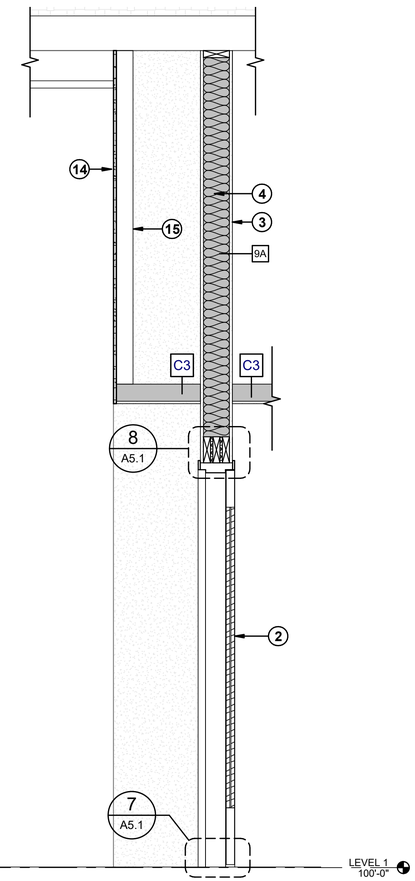
2 A3.1 NEW STOREFRONT
SCALE 3/4" = 1'-0"



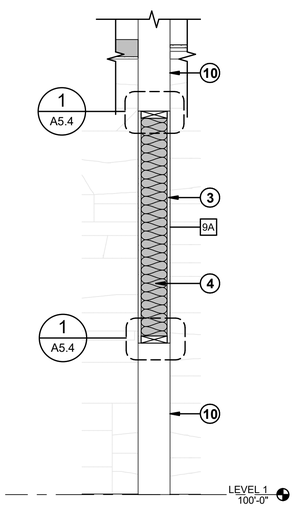
3 A3.1 NEW OFFICE WALL
SCALE 3/4" = 1'-0"



4 A3.1 NEW EXIT DOOR
SCALE 3/4" = 1'-0"



6 A3.1 NEW AUDITORIUM DOOR
SCALE 3/4" = 1'-0"



5 A3.1 NEW VESTIBULE WALL
SCALE 3/4" = 1'-0"

1 0 1 2 3
SCALE OF FEET

STATE OF UTAH
KENT R. RIGBY
No. 135996
LICENSED ARCHITECT
04/21/2023

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	A. LUSCHEN CADD A. LUSCHEN TECH. REVIEW: K. RIGBY DATE: 12/09/2022	A3.1	WALL SECTIONS GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 46 OF 113

GENERAL NOTES:

SEE SHEET G1 FOR DRAWING INDEX.

SEE SHEET G2 FOR SYMBOLS LEGEND AND ABBREVIATIONS.

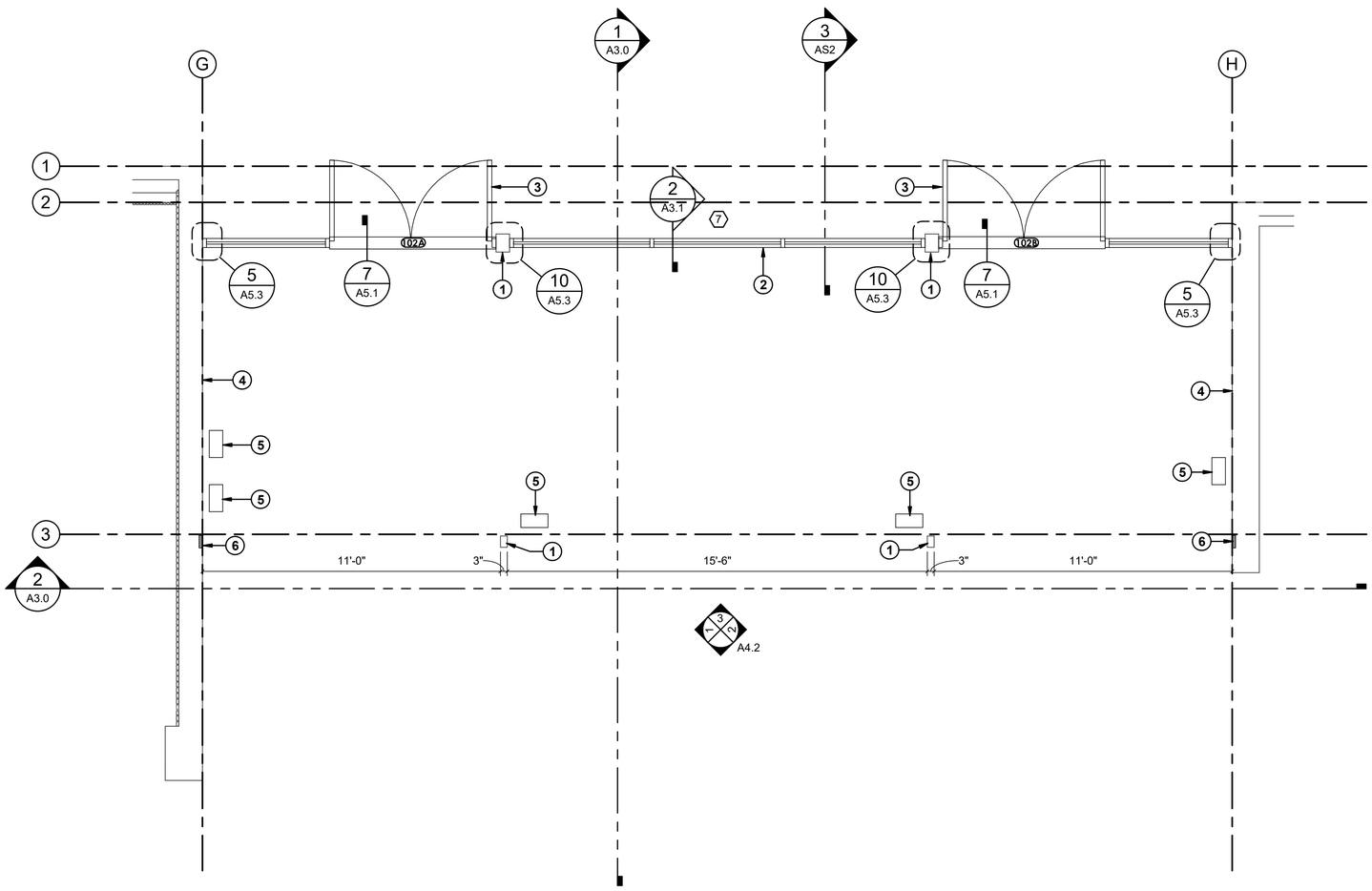
SEE SHEET G3 FOR GENERAL NOTES AND LEGEND.

DO NOT SCALE DRAWINGS.

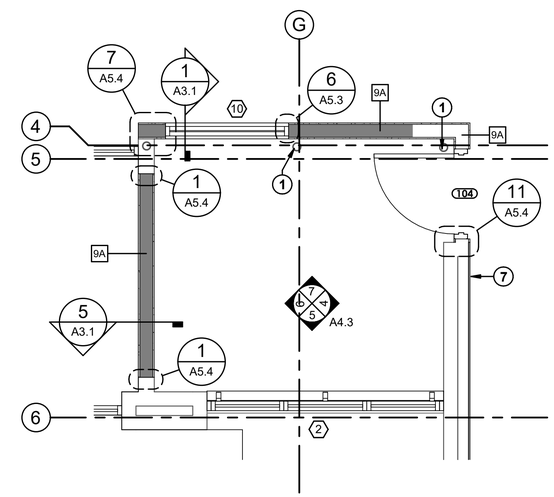
CONTRACTOR / SUBCONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK, AND SHALL REPORT TO THE CONTRACTING OFFICER ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.

KEYED NOTES:

1. EXISTING COLUMN TO REMAIN, TYP, REPAINT
2. NEW THERMALLY BROKEN STOREFRONT SYSTEM. SEE WINDOW TYPES
3. NEW STOREFRONT DOOR, SEE DOOR SCHEDULE
4. EXISTING STONE WALL TO REMAIN.
5. NEW ELECTRICAL FIXTURE, SEE ELECTRICAL
6. PATCH EXISTING STONE WALL, FINISH WITH WOOD TRIM
7. NEW GYPSUM BOARD FINISH



1 A4.0 ENLARGED EXHIBIT AREA FLOOR PLAN
SCALE 3/8" = 1'-0"

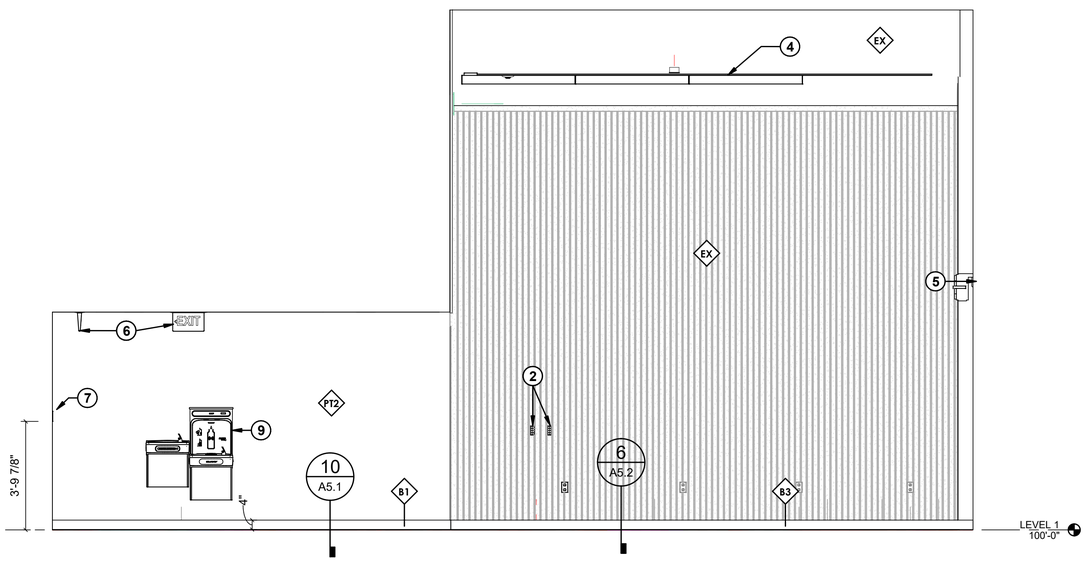


2 A4.0 ENLARGED PARK STORE OFFICE FLOOR PLAN
SCALE 3/8" = 1'-0"

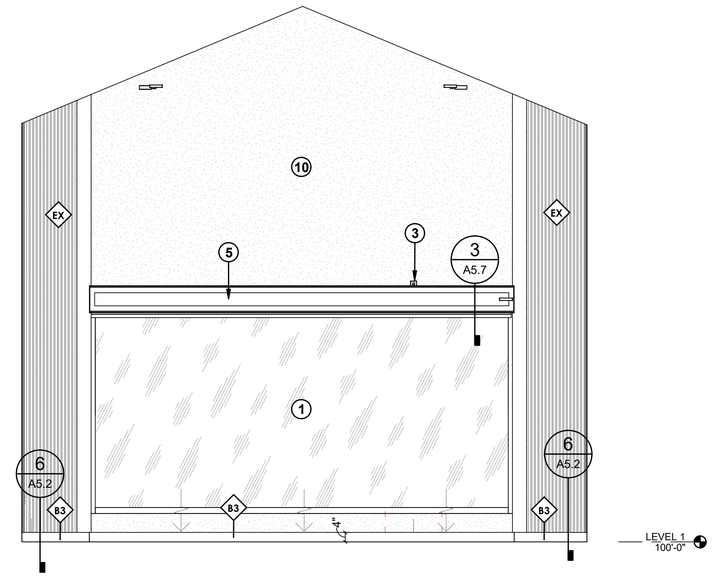
2 0 2 4 6
SCALE OF FEET

STATE OF UTAH
KENT R. RIGBY
No. 135096
LICENSED ARCHITECT
04/21/2023

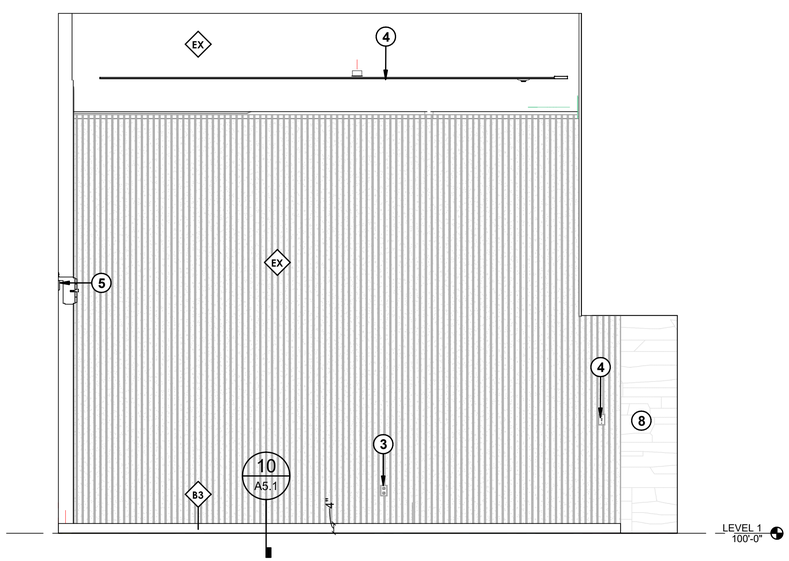
A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	A. LUSCHEN CADD A. LUSCHEN TECH. REVIEW: K. RIGBY DATE: 12/09/2022	A4.0	ENLARGED PLANS GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 47 OF 113



1 A4.1 RECEPTION ELEVATION 1
SCALE 3/8" = 1'-0"



2 A4.1 RECEPTION ELEVATION 2
SCALE 3/8" = 1'-0"



3 A4.1 RECEPTION ELEVATION 3
SCALE 3/8" = 1'-0"

GENERAL NOTES:

SEE SHEET G1 FOR DRAWING INDEX.

SEE SHEET G2 FOR SYMBOLS LEGEND AND ABBREVIATIONS.

SEE SHEET G3 FOR GENERAL NOTES AND LEGEND.

DO NOT SCALE DRAWINGS.

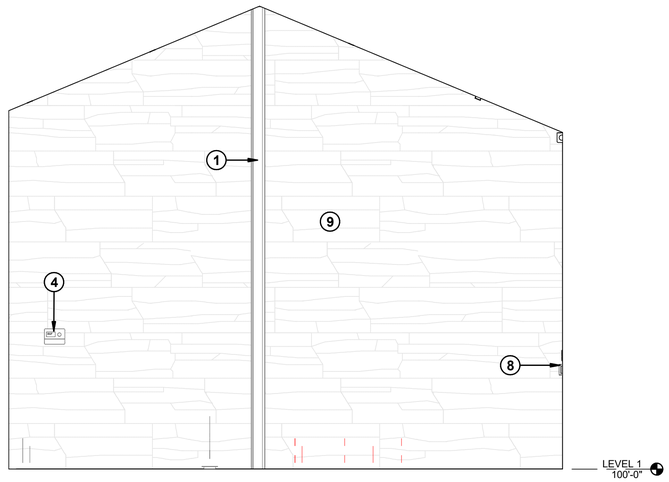
CONTRACTOR / SUBCONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK, AND SHALL REPORT TO THE CONTRACTING OFFICER ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.

KEYED NOTES:

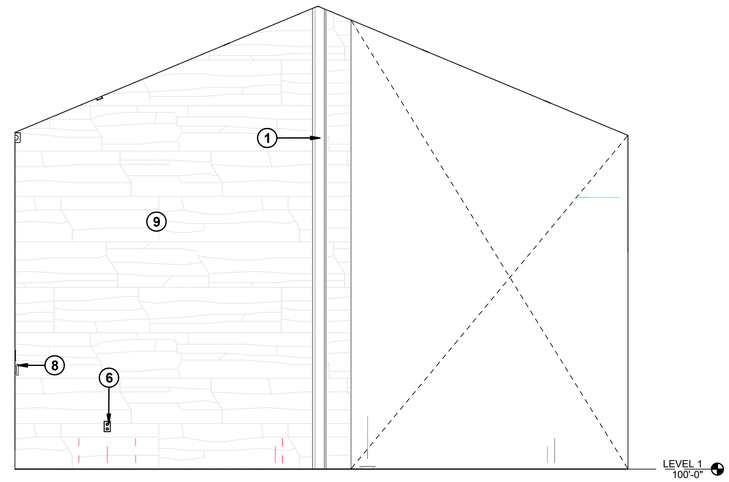
1. NEW THERMALLY BROKEN STOREFRONT SYSTEM. SEE WINDOW TYPES
2. NEW ELECTRICAL FIXTURE, SEE ELECTRICAL
3. ELECTRICAL OUTLET, SEE ELECTRICAL
4. NEW ELECTRICAL EQUIPMENT, SEE ELECTRICAL
5. ROLLER SHADES, MOTORIZED
6. EXIT SIGN
7. ADA AUTOMATIC DOOR OPENER.
8. EXISTING STONE WALL
9. NEW ACCESSIBLE HIGH & LOW DRINKING FOUNTAIN WITH BOTTLE FILLER
10. COORDINATE WALL FINISH AND MURAL WITH THE DESIGN MINDS

STATE OF UTAH
KENT R. RIGBY
No. 135096
LICENSED ARCHITECT
04/21/2023

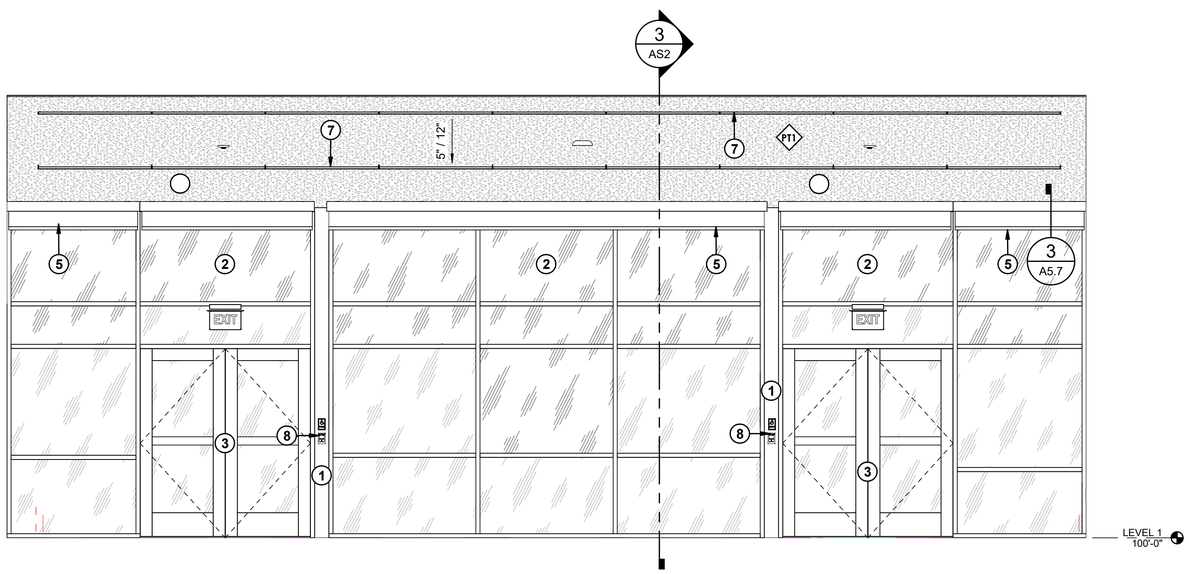
A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	Designer CADD Designer TECH. REVIEW: Author DATE: 12/09/2022	A4.1	INTERIOR ELEVATIONS GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 48 OF 113



1 A4.2 EXHIBIT ELEVATION 1
SCALE 3/8" = 1'-0"



2 A4.2 EXHIBIT ELEVATION 2
SCALE 3/8" = 1'-0"



3 A4.2 EXHIBIT ELEVATION 3
SCALE 3/8" = 1'-0"

GENERAL NOTES:

SEE SHEET G1 FOR DRAWING INDEX.

SEE SHEET G2 FOR SYMBOLS LEGEND AND ABBREVIATIONS.

SEE SHEET G3 FOR GENERAL NOTES AND LEGEND.

DO NOT SCALE DRAWINGS.

CONTRACTOR / SUBCONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK, AND SHALL REPORT TO THE CONTRACTING OFFICER ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.

KEYED NOTES:

1 EXISTING COLUMN TO REMAIN, TYP, REPAINT
2 NEW THERMALLY BROKEN STOREFRONT SYSTEM. SEE WINDOW TYPES
3 NEW DOOR AND FRAME, SEE DOOR SCHEDULE
4 MECHANICAL EQUIPMENT, SEE MECHANICAL DRAWINGS
5 ROLLER SHADES, MOTORIZED
6 ELECTRICAL OUTLET, SEE ELECTRICAL
7 NEW ELECTRICAL EQUIPMENT, SEE ELECTRICAL
8 FIRE ALARM PULL
9 EXISTING STONE WALL

STATE OF UTAH
KENT B. RIGBY
No. 135060
LICENSED ARCHITECT
04/21/2023

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	A. LUSCHEN CADD A. LUSCHEN TECH. REVIEW: K. RIGBY DATE: 12/09/2022	A4.2	INTERIOR ELEVATIONS GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 49 OF 113

GENERAL NOTES:

SEE SHEET G1 FOR DRAWING INDEX.

SEE SHEET G2 FOR SYMBOLS LEGEND AND ABBREVIATIONS.

SEE SHEET G3 FOR GENERAL NOTES AND LEGEND.

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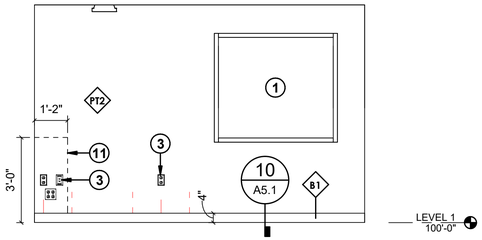
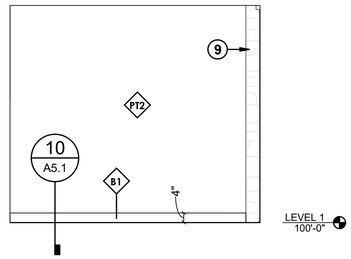
KEYED NOTES:

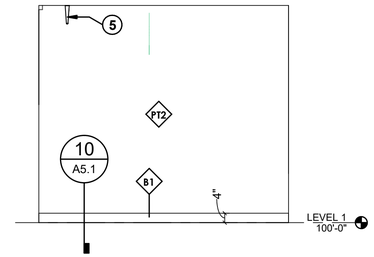
1. NEW THERMALLY BROKEN STOREFRONT SYSTEM. SEE WINDOW TYPES
2. NEW DOOR AND FRAME, SEE DOOR SCHEDULE
3. NEW ELECTRICAL FIXTURE, SEE ELECTRICAL
4. EXISTING STRUCTURAL PIPE COLUMN, SEE STRUCTURAL
5. EXIT SIGN
6. NEW MECHANICAL FIXTURE, SEE MECHANICAL
7. MECHANICAL EQUIPMENT, SEE MECHANICAL DRAWINGS
8. NEW ELECTRICAL EQUIPMENT, SEE ELECTRICAL
9. EXISTING STONE WALL
10. ROLLER SHADES, MOTORIZED
11. CASEWORK PER THE DESIGN MINDS DRAWINGS, VERIFY ELECTRICAL OUTLET LOCATIONS IN THE FIELD.



1 / A4.3 NEW WINDOW IN PARK OFFICE
SCALE 3/8" = 1'-0"



2 / A4.3 VESTIBULE ELEVATION 1
SCALE 3/8" = 1'-0"



3 / A4.3 VESTIBULE ELEVATION 2
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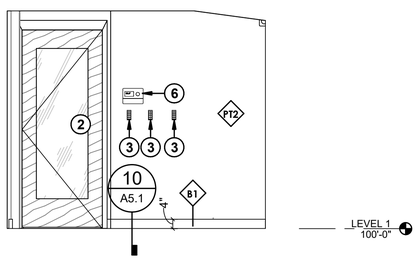
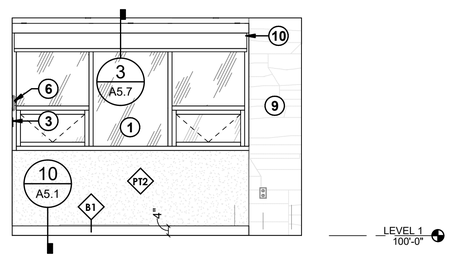


4 / A4.3 PARK STORE OFFICE ELEVATION 1
SCALE 3/8" = 1'-0"



5 / A4.3 PARK STORE OFFICE ELEVATION 2
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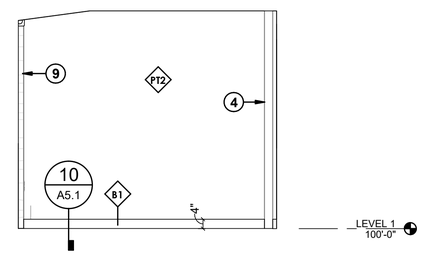
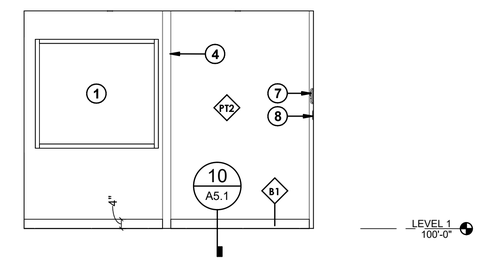
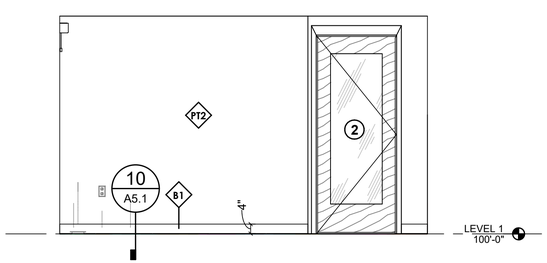


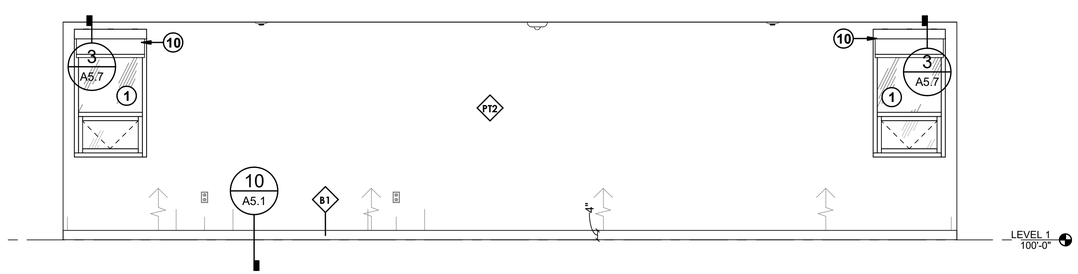
6 / A4.3 PARK STORE OFFICE ELEVATION 3
SCALE 3/8" = 1'-0"



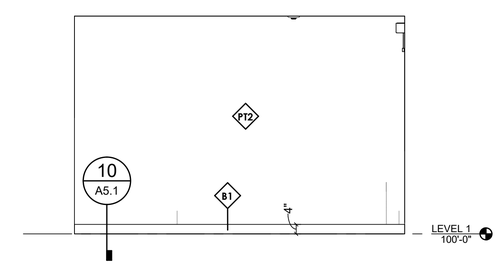
7 / A4.3 PARK STORE OFFICE ELEVATION 4
SCALE 3/8" = 1'-0"



8 / A4.3 PARK STORE ELEVATION 1
SCALE 3/8" = 1'-0"



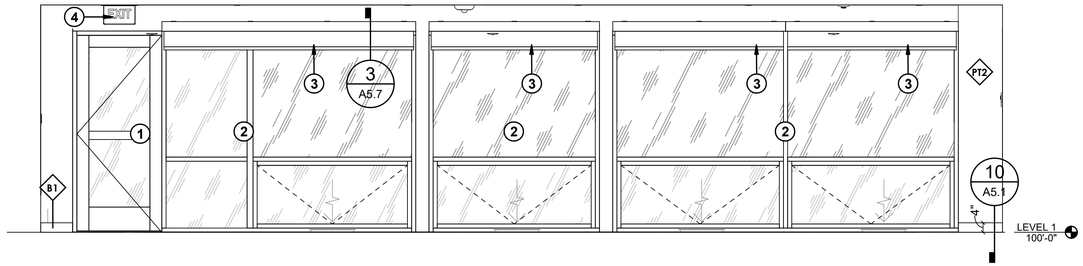
9 / A4.3 PARK STORE ELEVATION 2
SCALE 3/8" = 1'-0"



10 / A4.3 PARK STORE ELEVATION 3
SCALE 3/8" = 1'-0"

STATE OF UTAH
KENT R. RIGBY
No. 135099
LICENSED ARCHITECT
04/21/2023

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	A. LUSCHEN DATE A. LUSCHEN TECH. REVIEW: K. RIGBY DATE: 12/09/2022	A4.3	INTERIOR ELEVATIONS GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 50 OF 113



1 A4.4 PARK OFFICE STOREFROT ELEVATION
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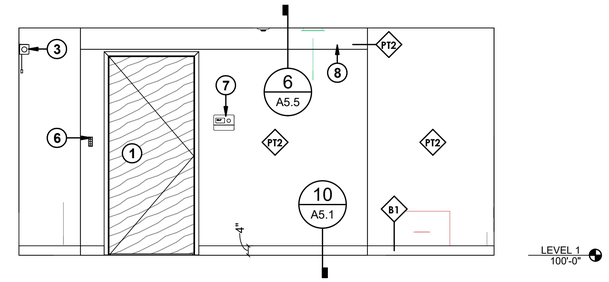
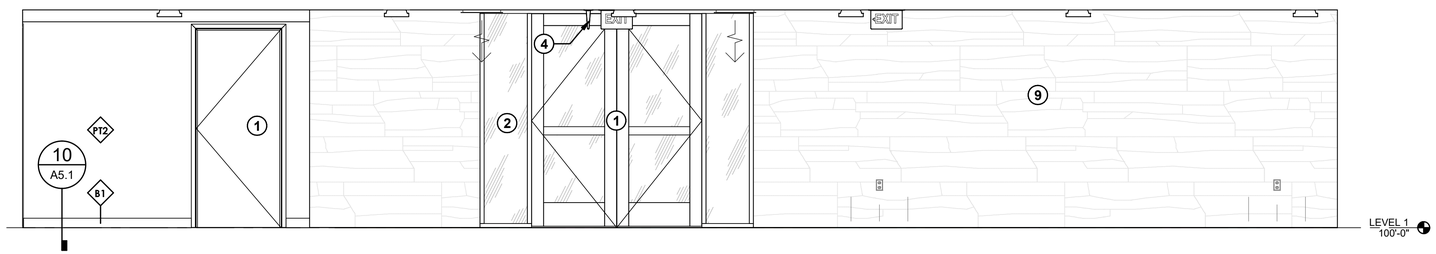


2 A4.4 NEW DOOR AND WALL FOR PARK OFFICES
SCALE 3/8" = 1'-0"



3 A4.4 HALL 105 ELEVATION 1
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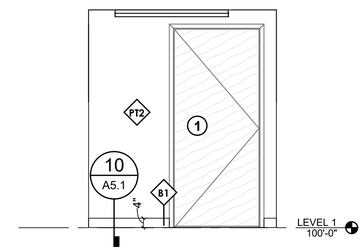

4 A4.4 HALL 105 ELEVATION 2
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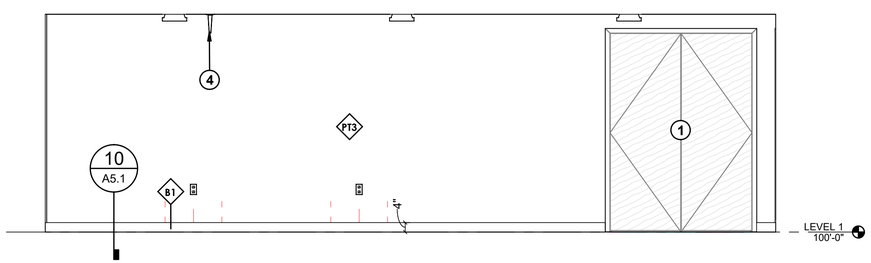
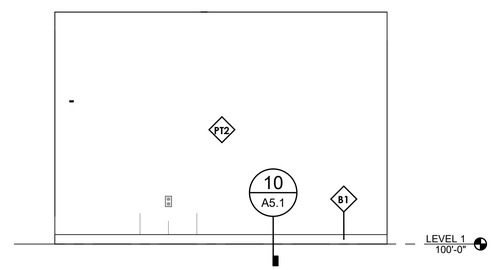


5 A4.4 HALL 105 ELEVATION 3
SCALE 3/8" = 1'-0"



6 A4.4 HALL 106 ELEVATION 1
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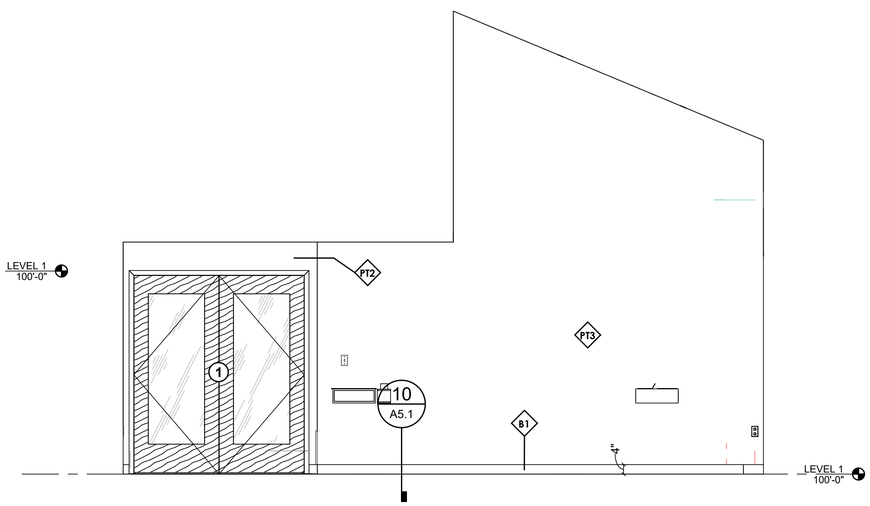
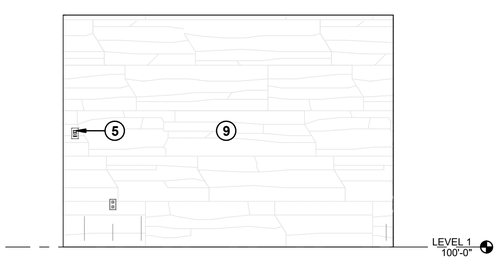


7 A4.4 HALL 106 ELEVATION 2
SCALE 3/8" = 1'-0"



8 A4.4 HALL 106 ELEVATION 3
SCALE 3/8" = 1'-0"

GENERAL NOTES:

SEE SHEET G1 FOR DRAWING INDEX.

SEE SHEET G2 FOR SYMBOLS LEGEND AND ABBREVIATIONS.

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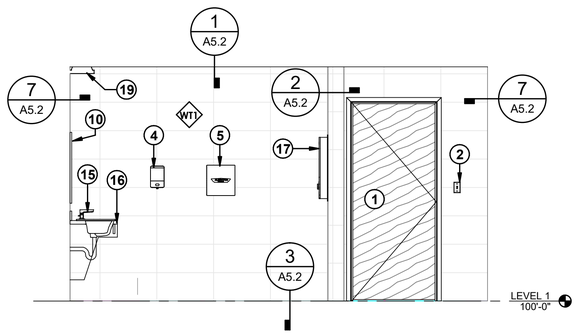
KEYED NOTES:

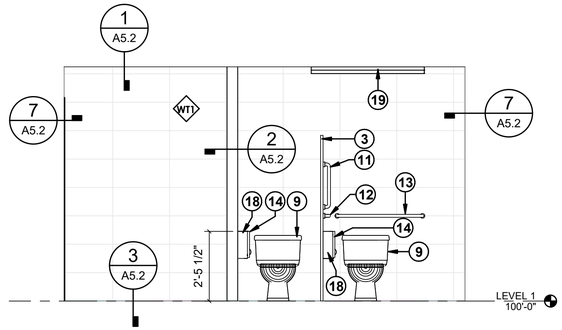
1 NEW DOOR AND FRAME, SEE DOOR SCHEDULE
2 NEW THERMALLY BROKEN STOREFRONT SYSTEM. SEE WINDOW TYPES
3 ROLLER SHADES, MOTORIZED
4 EXIT SIGN
5 NEW ELECTRICAL FIXTURE, SEE ELECTRICAL
6 NEW ELECTRICAL EQUIPMENT, SEE ELECTRICAL
7 MECHANICAL EQUIPMENT, SEE MECHANICAL DRAWINGS
8 EXISTING BEAM
9 EXISTING STONE WALL

STATE OF UTAH
KENT R. RIGBY
No. 135099
LICENSED ARCHITECT
04/21/2023

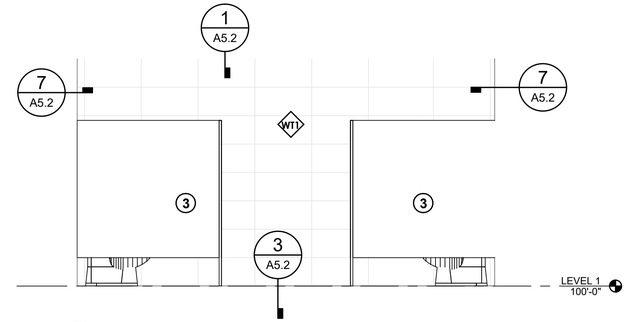
A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	A. LUSCHEN CADD A. LUSCHEN TECH. REVIEW: K. RIGBY DATE: 12/09/2022	A4.4	INTERIOR ELEVATIONS GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 51 OF 113



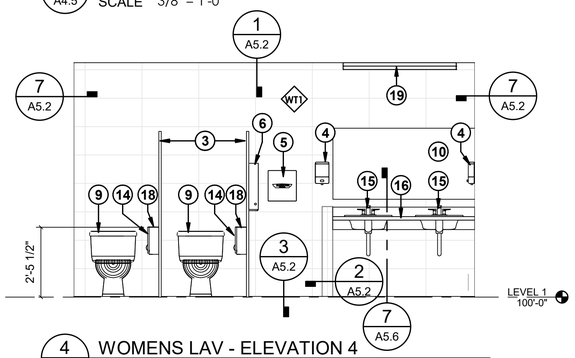
1 A4.5 WOMENS LAV - ELEVATION 1
SCALE 3/8" = 1'-0"



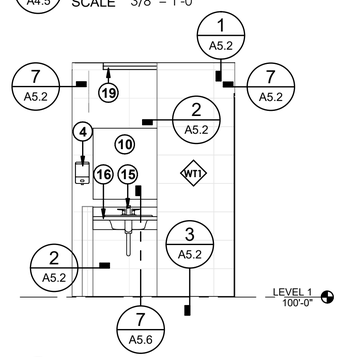
2 A4.5 WOMENS LAV - ELEVATION 2
SCALE 3/8" = 1'-0"



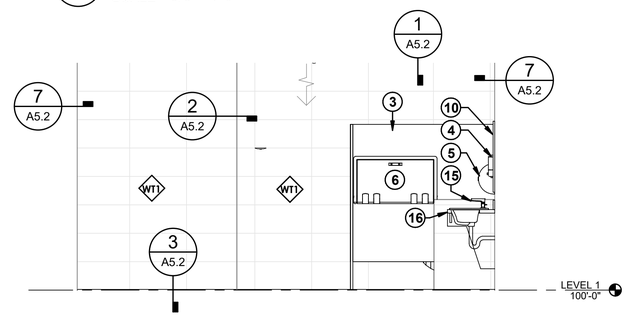
3 A4.5 WOMENS LAV - ELEVATION 3
SCALE 3/8" = 1'-0"



4 A4.5 WOMENS LAV - ELEVATION 4
SCALE 3/8" = 1'-0"



5 A4.5 WOMENS LAV - ELEVATION 5
SCALE 3/8" = 1'-0"



6 A4.5 WOMENS LAV - ELEVATION 6
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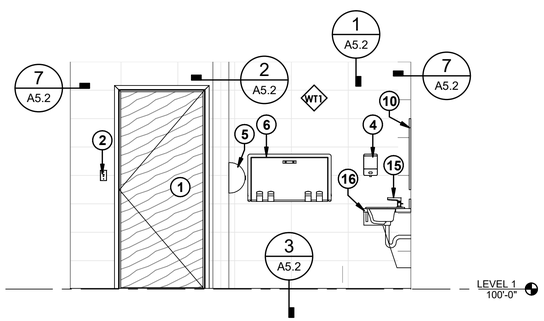
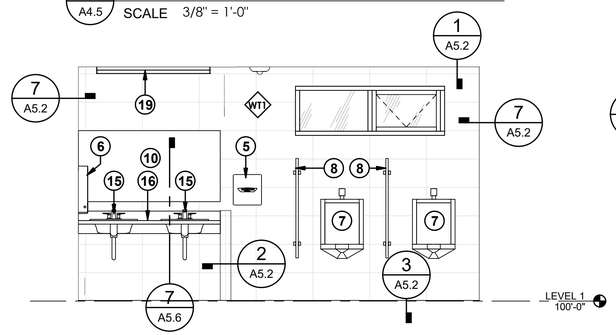
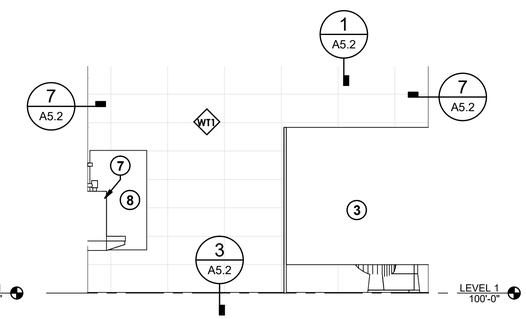


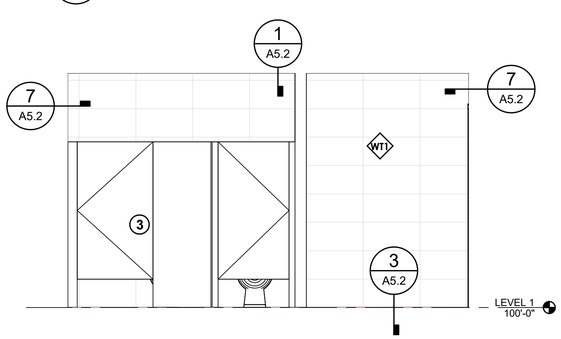
7 A4.5 MENS LAV - ELEVATION 1
SCALE 3/8" = 1'-0"



8 A4.5 MENS LAV - ELEVATION 2
SCALE 3/8" = 1'-0"



9 A4.5 MENS LAV - ELEVATION 3
SCALE 3/8" = 1'-0"



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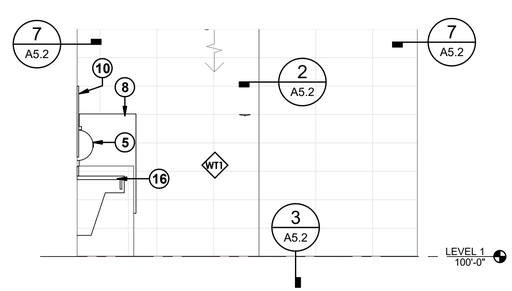
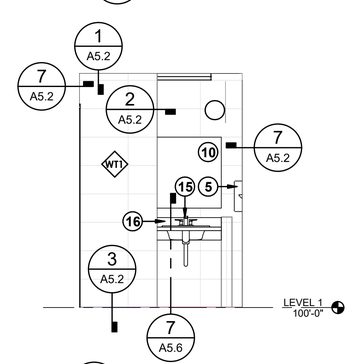


11 A4.5 MENS LAV - ELEVATION 5
SCALE 3/8" = 1'-0"



12 A4.5 MENS LAV - ELEVATION 6
SCALE 3/8" = 1'-0"

GENERAL NOTES:

SEE SHEET G1 FOR DRAWING INDEX.

SEE SHEET G2 FOR SYMBOLS LEGEND AND ABBREVIATIONS.

SEE SHEET G3 FOR GENERAL NOTES AND LEGEND.

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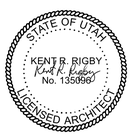
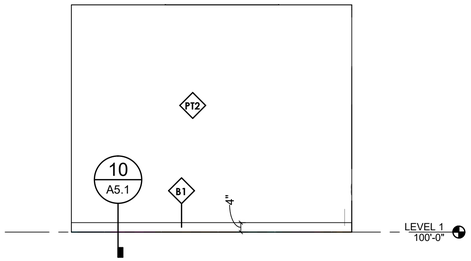
KEYED NOTES:

1 NEW DOOR AND FRAME, SEE DOOR SCHEDULE
2 NEW ELECTRICAL EQUIPMENT, SEE ELECTRICAL
3 SOLID PLASTIC TOILET COMPARTMENTS
4 SOAP DISPENSER, SEE ACCESSORY SCHEDULE.
5 HAND DRYER, SEE ELECTRICAL DRAWINGS.
6 BABY CHANGING STATION, SEE ACCESSORY SCHEDULE
7 URINAL
8 SOLID PLASTIC URINAL PARTITION
9 TOILET
10 MIRROR, BOTTOM OF REFLECTIVE SURFACE @ 40" A.F.F. MAX. SEE ACCESSORY SCHEDULE.
11 18" VERTICAL S.S. GRAB BAR, SEE ACCESSORY SCHEDULE
12 42" S.S. GRAB BAR, SEE ACCESSORY SCHEDULE
13 36" S.S. GRAB BAR, SEE ACCESSORY SCHEDULE
14 TOILET TISSUE DISPENSER, SEE ACCESSORY SCHEDULE.
15 SINK AND FAUCET, SEE PLUMBING DRAWINGS.
16 SOLID SURFACE COUNTERTOP
17 SANITARY NAPKIN DISPENSER, SEE ACCESSORY SCHEDULE.
18 SANITARY NAPKIN DISPOSAL UNIT, SEE ACCESSORY SCHEDULE.
19 NEW ELECTRICAL FIXTURE, SEE ELECTRICAL

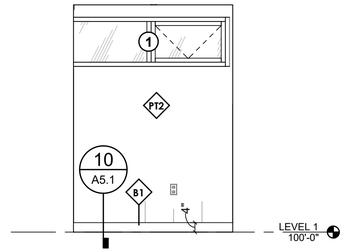


04/21/2023

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	A. LUSCHEN CADD A. LUSCHEN TECH. REVIEW: K. RIGBY DATE: 12/09/2022	A4.5	INTERIOR ELEVATIONS GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 52 OF 113



1 A4.6 COPY AREA ELEVATION 1
SCALE 3/8" = 1'-0"



2 A4.6 COPY AREA ELEVATION 2
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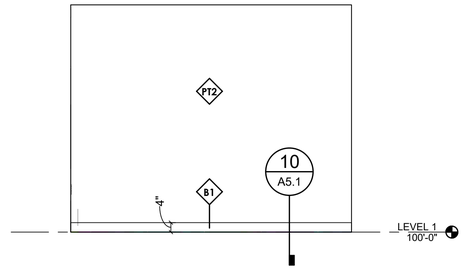
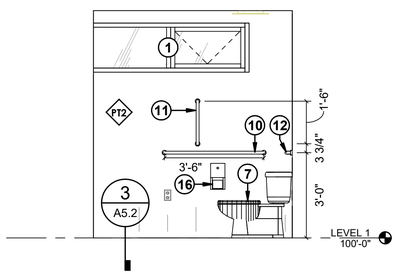
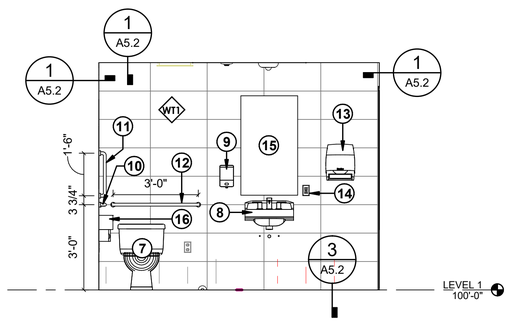


3 A4.6 COPY AREA ELEVATION 3
SCALE 3/8" = 1'-0"



4 A4.6 AREA B LAV ELEVATION 1
SCALE 3/8" = 1'-0"



5 A4.6 AREA B LAV ELEVATION 2
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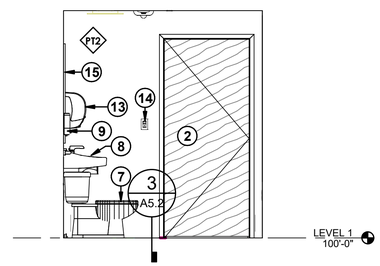
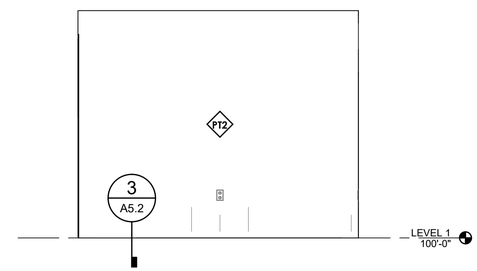
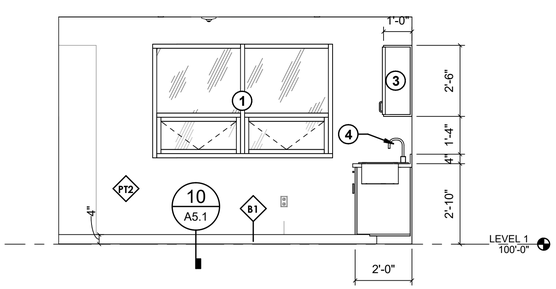


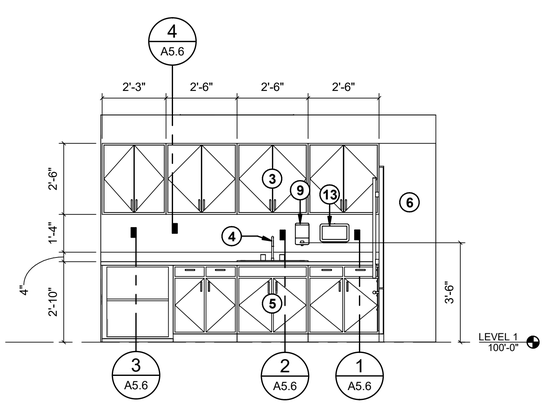
6 A4.6 AREA B LAV ELEVATION 3
SCALE 3/8" = 1'-0"



7 A4.6 AREA B LAV ELEVATION 4
SCALE 3/8" = 1'-0"



8 A4.6 BREAK ROOM ELEVATION 1
SCALE 3/8" = 1'-0"



9 A4.6 BREAK ROOM ELEVATION 2
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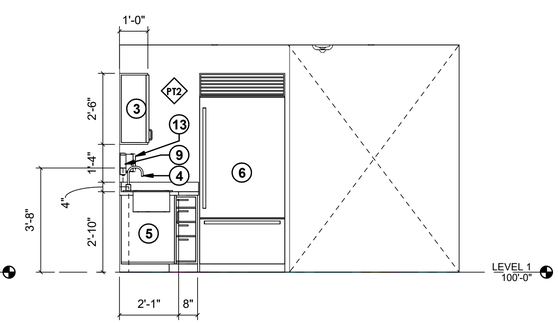
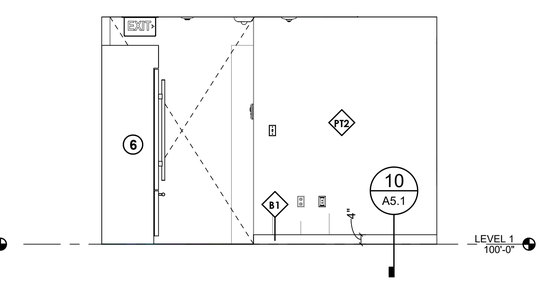


10 A4.6 BREAK ROOM ELEVATION 3
SCALE 3/8" = 1'-0"



11 A4.6 BREAK ROOM ELEVATION 4
SCALE 3/8" = 1'-0"

GENERAL NOTES:

SEE SHEET G1 FOR DRAWING INDEX.

SEE SHEET G2 FOR SYMBOLS LEGEND AND ABBREVIATIONS.

SEE SHEET G3 FOR GENERAL NOTES AND LEGEND.

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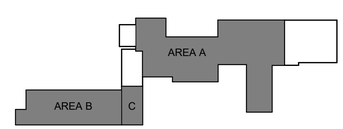
KEYED NOTES:

1. NEW THERMALLY BROKEN STOREFRONT SYSTEM. SEE WINDOW TYPES
2. NEW DOOR AND FRAME, SEE DOOR SCHEDULE
3. CASEWORK, UPPERS
4. SINK
5. CASEWORK, LOWERS
6. REFRIGERATOR
7. TOILET
8. VANITY
9. SOAP DISPENSER, SEE ACCESSORY SCHEDULE.
10. 42" S.S. GRAB BAR, SEE ACCESSORY SCHEDULE
11. 18" VERTICAL S.S. GRAB BAR, SEE ACCESSORY SCHEDULE
12. 36" S.S. GRAB BAR, SEE ACCESSORY SCHEDULE
13. PAPER TOWEL DISPENSER, SEE ACCESSORY SCHEDULE.
14. NEW ELECTRICAL EQUIPMENT, SEE ELECTRICAL
15. MIRROR, BOTTOM OF REFLECTIVE SURFACE @ 40" A.F.F. MAX. SEE ACCESSORY SCHEDULE.
16. TOILET TISSUE DISPENSER, SEE ACCESSORY SCHEDULE.

STATE OF UTAH
KENT R. RIGBY
No. 135099
LICENSED ARCHITECT
04/21/2023



KEYPLAN

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	A. LUSCHEN CADD A. LUSCHEN TECH. REVIEW: K. RIGBY DATE: 12/09/2022	A4.6	INTERIOR ELEVATIONS GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 53 OF 113

GENERAL NOTES:

SEE SHEET G1 FOR DRAWING INDEX.

SEE SHEET G2 FOR SYMBOLS LEGEND AND ABBREVIATIONS.

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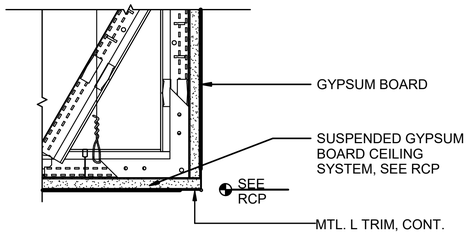
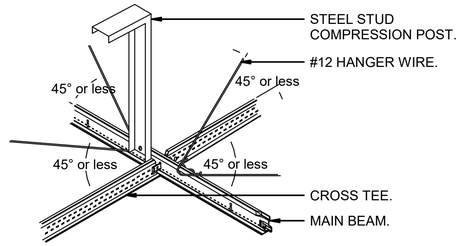
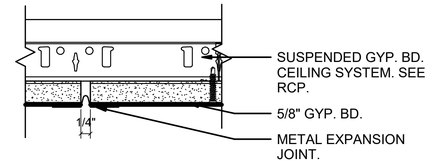


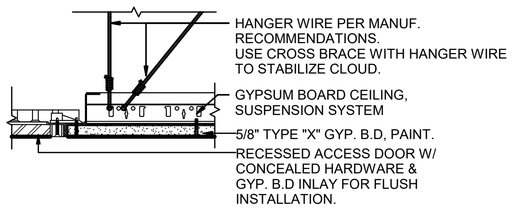
1 A5.1 CEILING - GYP. SOFFIT TO GYP.
SCALE 3" = 1'-0"



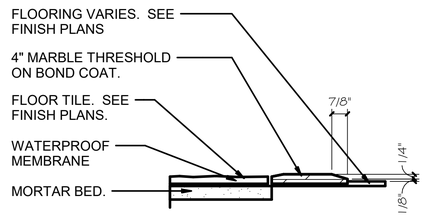
2 A5.1 CEILING - TYP. SEISMIC CEILING BRACING
SCALE 3" = 1'-0"



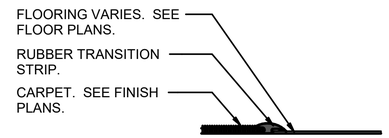
3 A5.1 TYP. GYP. BD. CEILING CONTROL JOINT
SCALE 6" = 1'-0"



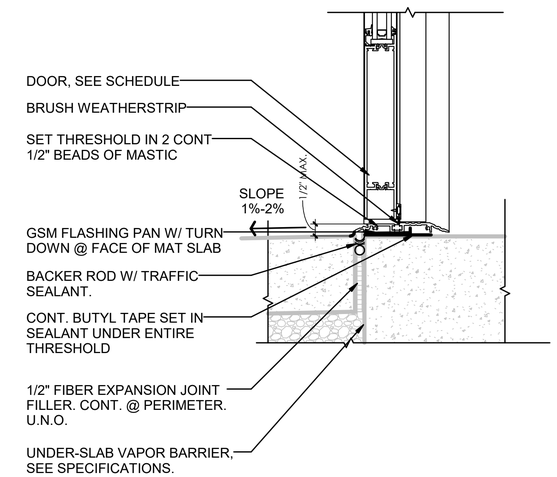
4 A5.1 TYP. ACCESS PANEL DETAIL
SCALE 3" = 1'-0"



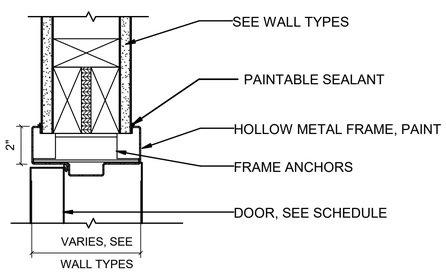
5 A5.1 MARBLE THRESHOLD
SCALE 3" = 1'-0"



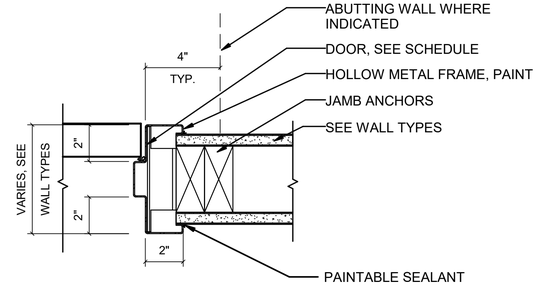
6 A5.1 RUBBER TRANSITION STRIP
SCALE 3" = 1'-0"



7 A5.1 ALUMINUM THRESHOLD DETAIL
SCALE 3" = 1'-0"



8 A5.1 DOOR - HM HEAD @ GYP BD
SCALE 3" = 1'-0"



9 A5.1 DOOR - HM JAMB @ GYP BD
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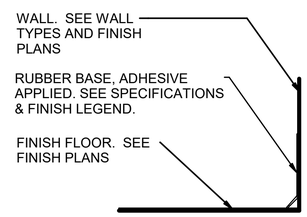
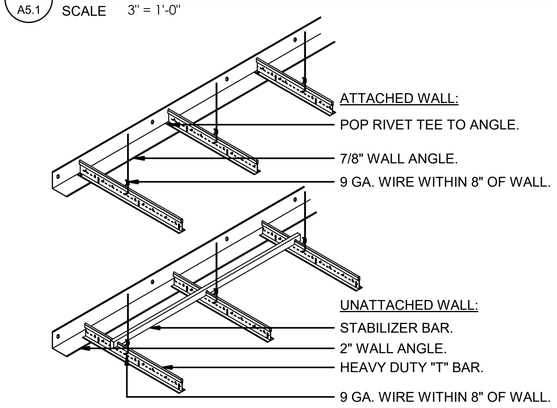
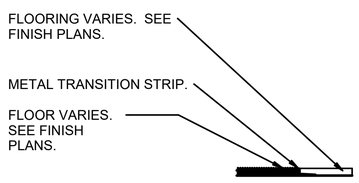
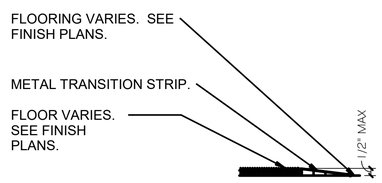


10 A5.1 BASE - RUBBER
SCALE 3" = 1'-0"



11 A5.1 TYP. SEISMIC SUSPENDED CEILING DETAIL
SCALE 3" = 1'-0"





12 A5.1 METAL TRANSITION STRIP
SCALE 3" = 1'-0"

STATE OF UTAH
KENT R. RIGBY
No. 135096
LICENSED ARCHITECT
04/21/2023

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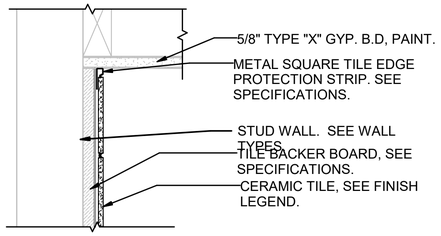
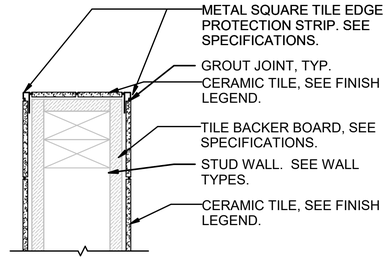
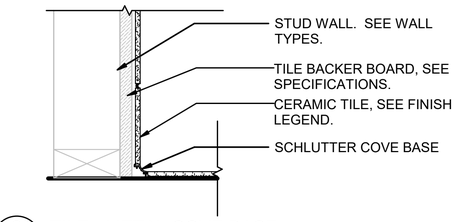
AJC ARCHITECTS SALT LAKE CITY, UT 84104	A. LUSCHEN DADP A. LUSCHEN TECH. REVIEW: K. RIGBY DATE: 12/09/2022	A5.1	DETAILS GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 54 OF 113



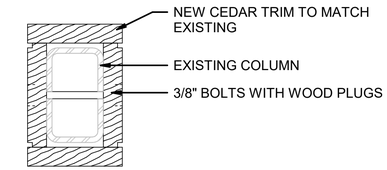
1 A5.2 TILE TRANSITION INSIDE CORNER / CEILING
SCALE 3" = 1'-0"



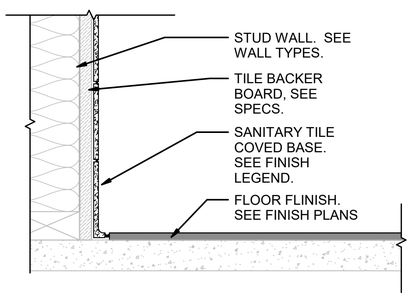
2 A5.2 TILE TRANSITION OUTSIDE CORNER
SCALE 3" = 1'-0"



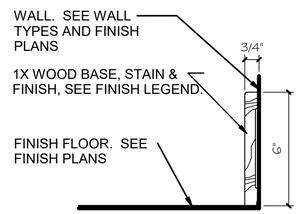
3 A5.2 TILE - METAL COVE BASE
SCALE 3" = 1'-0"



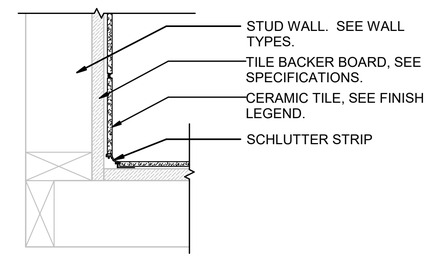
4 A5.2 WOOD AROUND COLUMN
SCALE 3" = 1'-0"



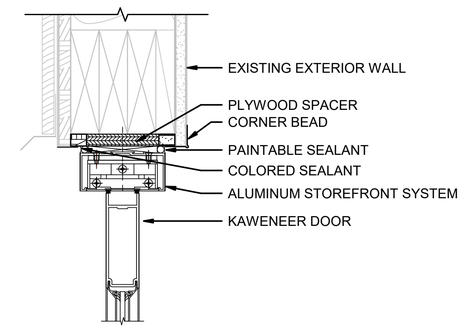
5 A5.2 BASE - TILE
SCALE 3" = 1'-0"



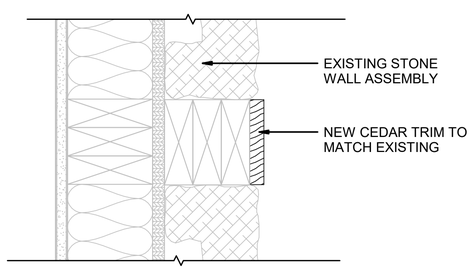
6 A5.2 BASE - WOOD
SCALE 3" = 1'-0"



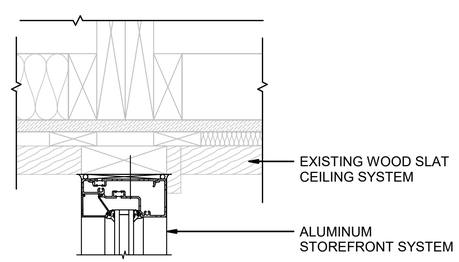
7 A5.2 TILE -TRANSITION INSIDE CORNER / WALL
SCALE 3" = 1'-0"



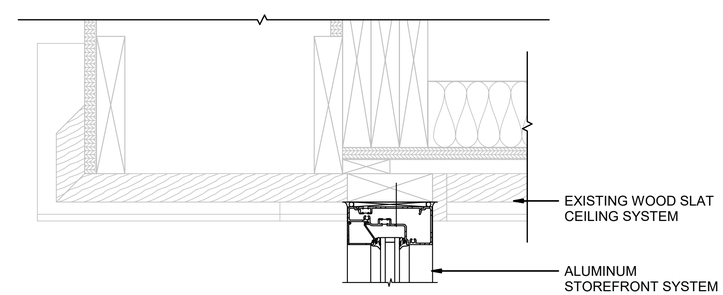
8 A5.2 - NEW STOREFRONT DOOR HEADER AT EXISTING EXT WALL
SCALE 3" = 1'-0"



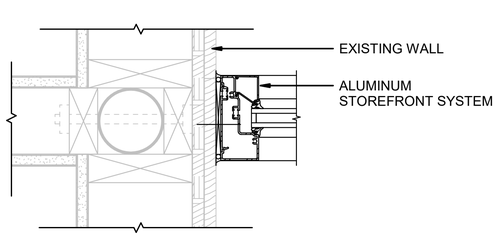
9 A5.2 STONE WALL STOREFRONT PATCH
SCALE 3" = 1'-0"



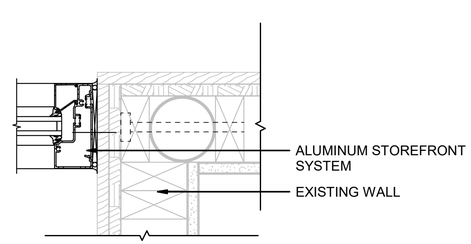
10 A5.2 VESTIBULE HEADER DETAIL 1
SCALE 3" = 1'-0"



11 A5.2 VESTIBULE HEADER DETAIL 2
SCALE 3" = 1'-0"



12 A5.2 VESTIBULE JAMB DETAIL 1
SCALE 3" = 1'-0"



13 A5.2 VESTIBULE JAMB DETAIL 2
SCALE 3" = 1'-0"

STATE OF UTAH
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No. 135096
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04/21/2023

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	Designer CADD Designer TECH. REVIEW: Author DATE: 12/09/2022	A5.2	DETAILS GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 55 OF 113

GENERAL NOTES:

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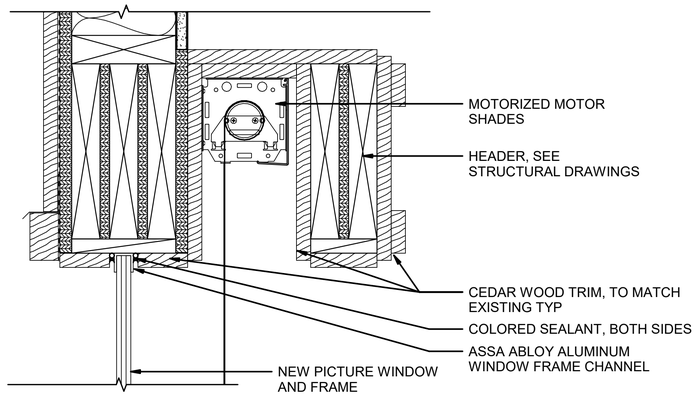
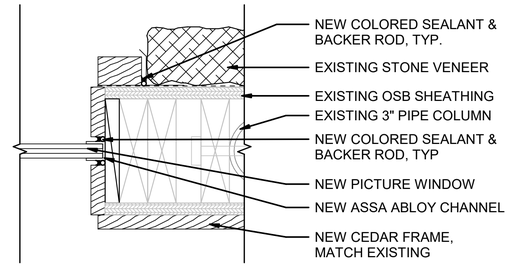
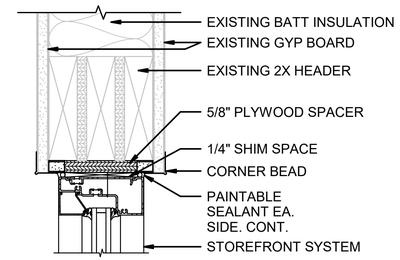


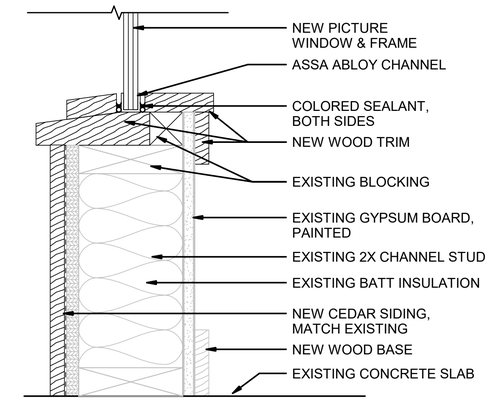
1 A5.3 HEADER AND FRAME AT NEW PICTURE WINDOW
SCALE 3" = 1'-0"



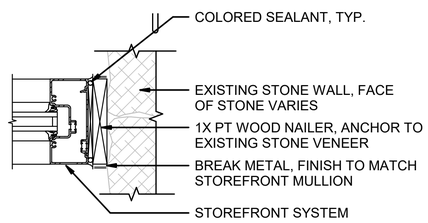
4 A5.3 JAMB AT NEW PICTURE WINDOW
SCALE 3" = 1'-0"



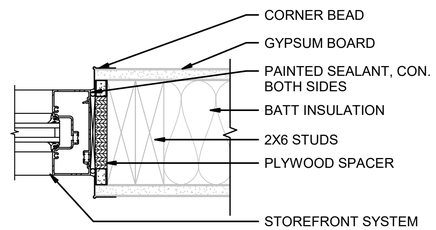
3 A5.3 NEW STOREFRONT HEADER AT INTERIOR WALL
SCALE 3" = 1'-0"



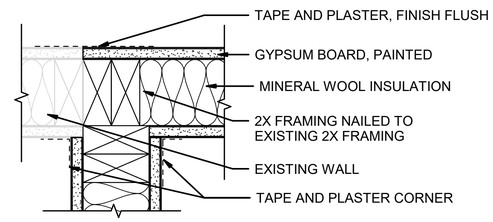
7 A5.3 SILL AND FRAME AT NEW PICTURE WINDOW
SCALE 3" = 1'-0"



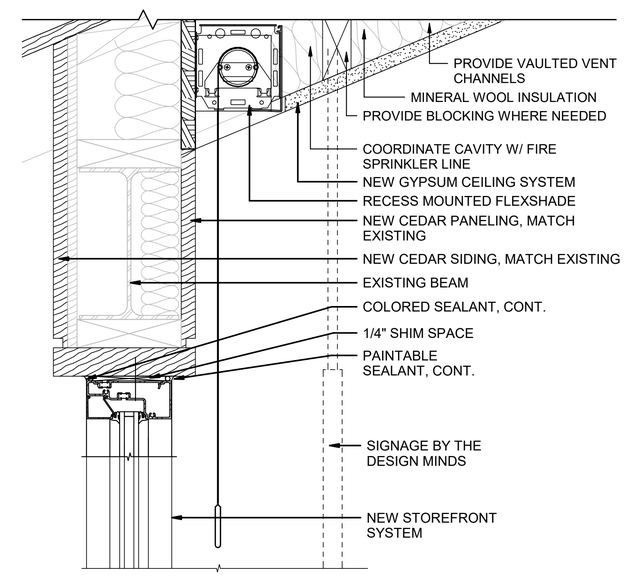
5 A5.3 NEW STOREFRONT SYSTEM AT EXISTING STONE WALL
SCALE 3" = 1'-0"



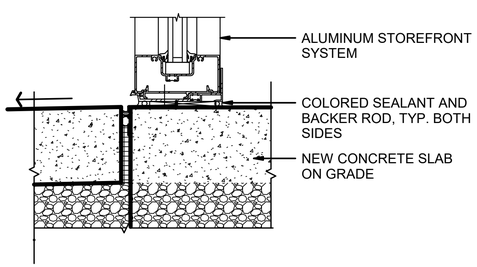
6 A5.3 NEW STOREFRONT JAME AT INTERIOR WALL
SCALE 3" = 1'-0"



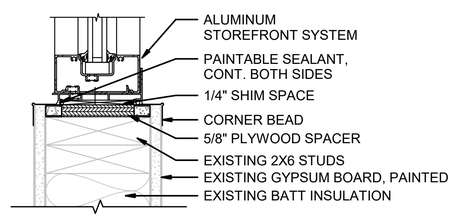
11 A5.3 NEW WALL FOR ADMIN BATHROOM
SCALE 3" = 1'-0"



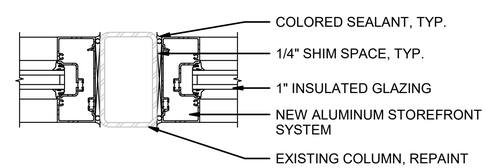
2 A5.3 NEW STOREFRONT HEADER AT EXISTING BEAM
SCALE 3" = 1'-0"



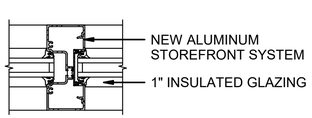
8 A5.3 NEW STOREFRONT SILL AT EXIST EXT WALL
SCALE 3" = 1'-0"



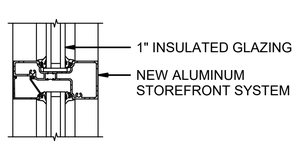
9 A5.3 NEW STOREFRONT SILL AT INTERIOR WALL
SCALE 3" = 1'-0"



10 A5.3 MULLIONS AT EXISTING COLUMN
SCALE 3" = 1'-0"



12 A5.3 VETICAL MULLION
SCALE 3" = 1'-0"



13 A5.3 HORIZONTAL MULLION
SCALE 3" = 1'-0"

STATE OF UTAH
KENT R. RIGBY
No. 135096
LICENSED ARCHITECT
04/21/2023

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	A. LUSCHEN CADD A. LUSCHEN TECH. REVIEW: K. RIGBY DATE: 12/09/2022	A5.3	DETAILS GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 56 OF 113

GENERAL NOTES:

SEE SHEET G1 FOR DRAWING INDEX.

SEE SHEET G2 FOR SYMBOLS LEGEND AND ABBREVIATIONS.

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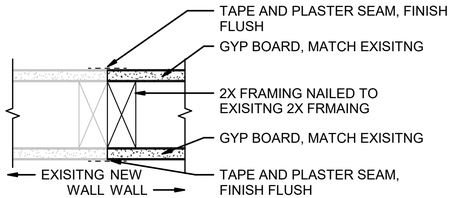
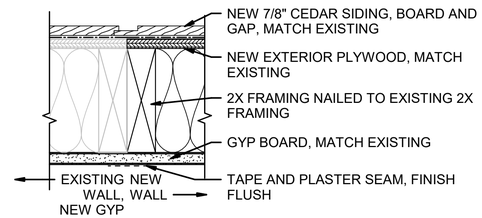
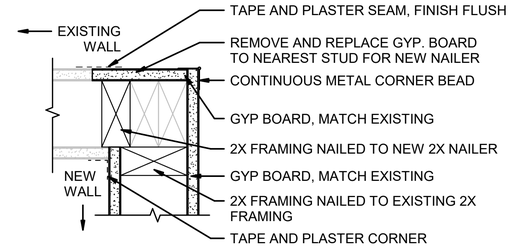


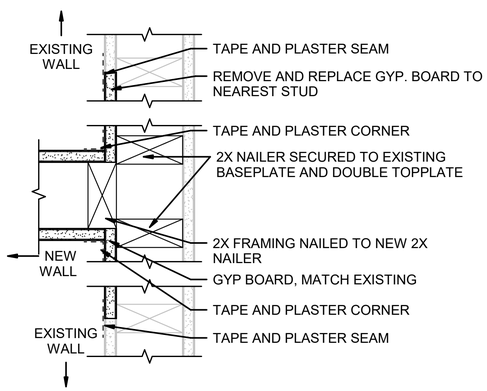
1 A5.4 NEW STUD WALL TO EXISTING STUD WALL (PARALLEL)
SCALE 3" = 1'-0"



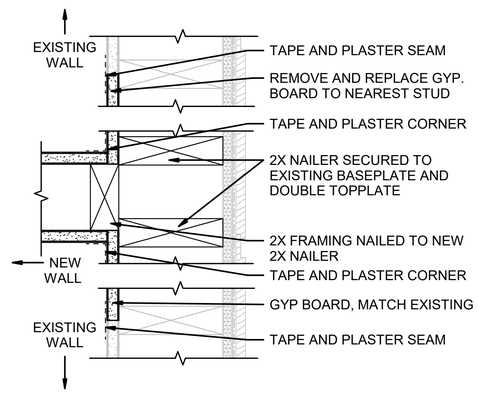
2 A5.4 NEW STUD WALL TO EXISTING EXTERIOR WALL (PARALLEL)
SCALE 3" = 1'-0"



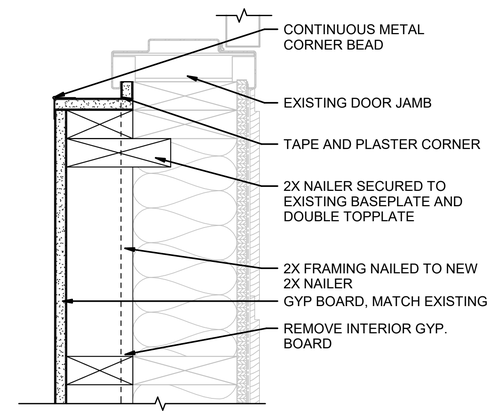
3 A5.4 NEW STUD WALL TO EXISTING STUD WALL (CORNER)
SCALE 3" = 1'-0"



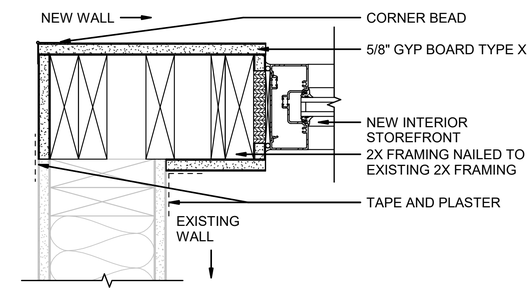
4 A5.4 NEW STUD WALL TO EXISTING STUD WALL (INTERSECTION)
SCALE 3" = 1'-0"



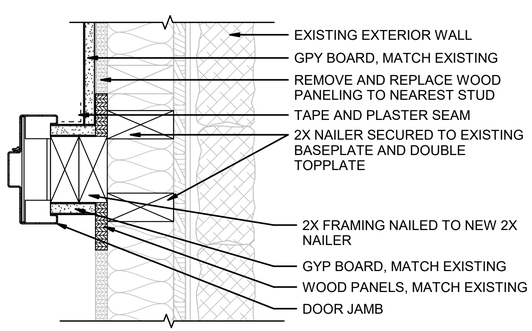
5 A5.4 NEW STUD WALL TO EXISTING EXTERIOR WALL (INTERSECTION)
SCALE 3" = 1'-0"



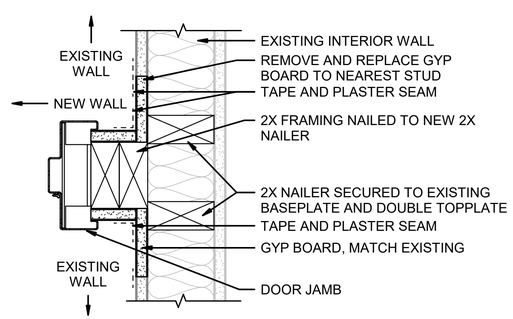
6 A5.4 NEW STUD WALL TO EXISTING EXTERIOR WALL (DOUBLE FRAME)
SCALE 3" = 1'-0"



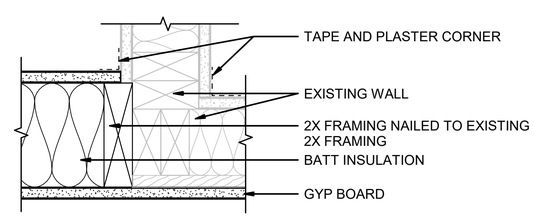
7 A5.4 NEW WALL AT EXISTING WALL - PARK STORE
SCALE 3" = 1'-0"



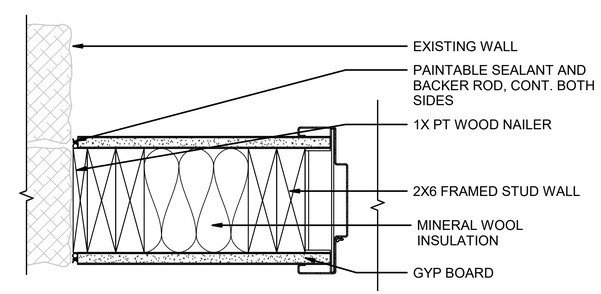
8 A5.4 NEW WALL AND DOOR AT EXIST EXT WALL
SCALE 3" = 1'-0"



9 A5.4 NEW WALL AND DOOR AT EXIST INT WALL
SCALE 3" = 1'-0"



10 A5.4 NEW WALL NEAR NEW OFFICES
SCALE 3" = 1'-0"



11 A5.4 NEW WALL AND DOOR AT EXISTING STONE WALL
SCALE 3" = 1'-0"

STATE OF UTAH
KENT R. RIGBY
No. 135996
LICENSED ARCHITECT
04/21/2023

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	A. LUSCHEN CADD A. LUSCHEN TECH. REVIEW: K. RIGBY DATE: 12/09/2022	A5.4	DETAILS GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 57 OF 113

GENERAL NOTES:

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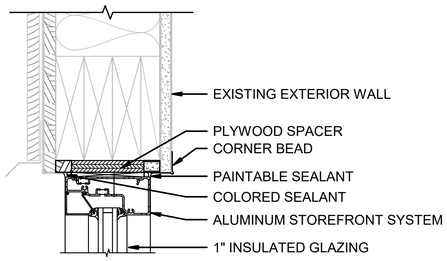
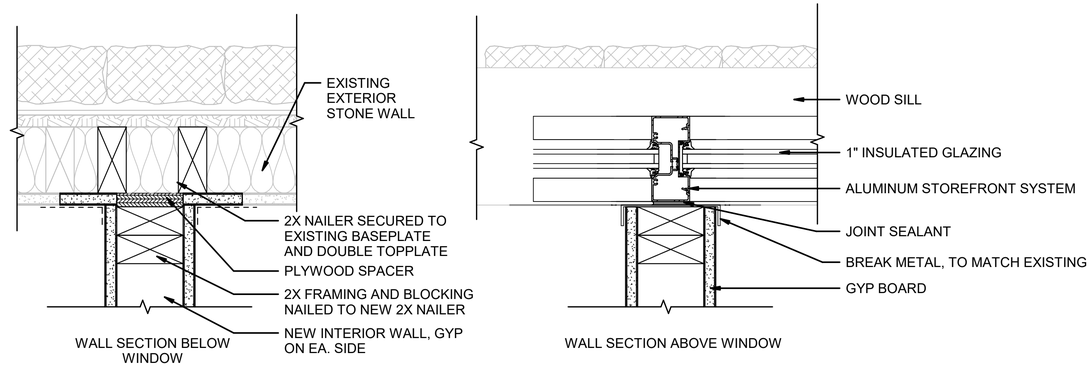
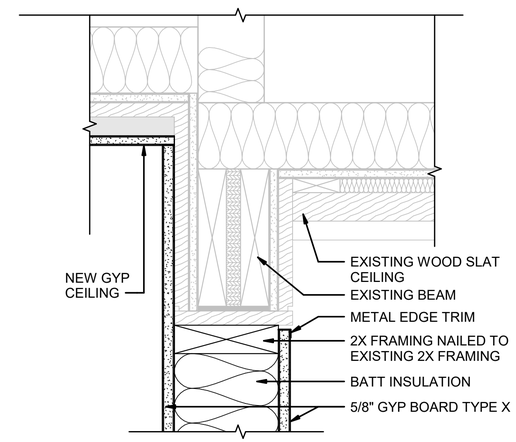


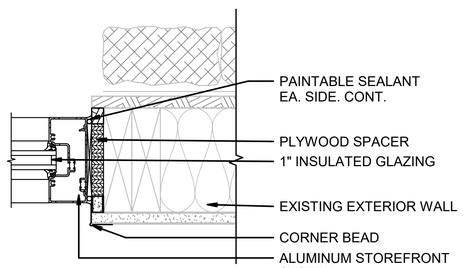
1 A5.5 - NEW STOREFRONT HEADER AT EXISTING EXT WALL
SCALE 3" = 1'-0"



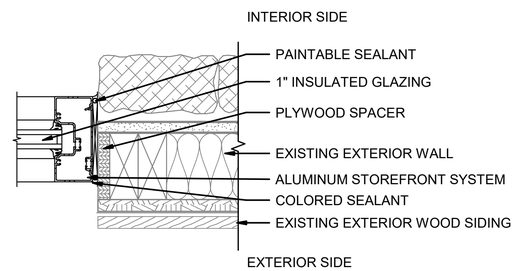
2 A5.5 WALL AT WINDOW MULLION
SCALE 3" = 1'-0"



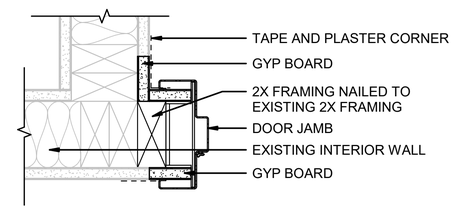
6 A5.5 NEW INTERIOR WALL AT EXISTING BEAM
SCALE 3" = 1'-0"



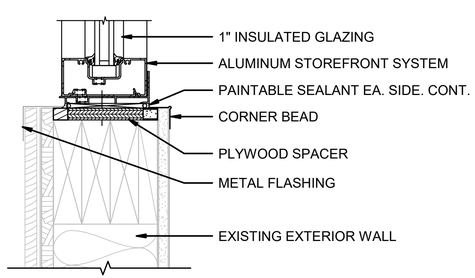
3 A5.5 - NEW STOREFRONT JAMB AT EXISTING EXT STONE WALL
SCALE 3" = 1'-0"



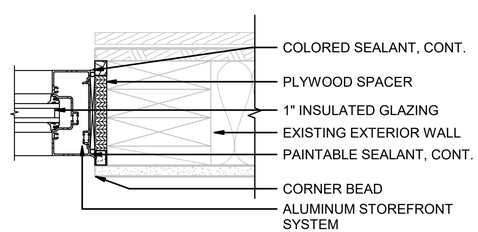
4 A5.5 - NEW STOREFRONT JAMB AT EXISTING EXT WALL - NEW EXIT DOOR
SCALE 3" = 1'-0"



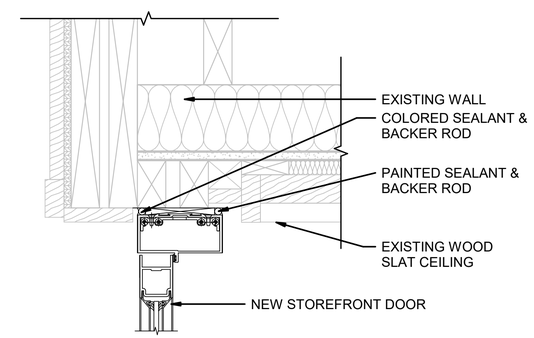
5 A5.5 NEW INTERIOR WALL AND DOOR AT EXISITNG WALL (CORNER)
SCALE 3" = 1'-0"



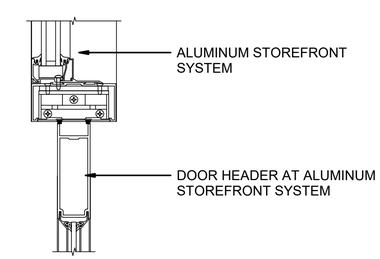
7 A5.5 NEW STOREFRONT SILL AT EXISTING EXT WALL
SCALE 3" = 1'-0"



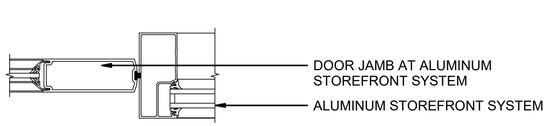
8 A5.5 NEW STOREFRONT JAMB AT EXIST EXT WALL - WOOD SIDING
SCALE 3" = 1'-0"



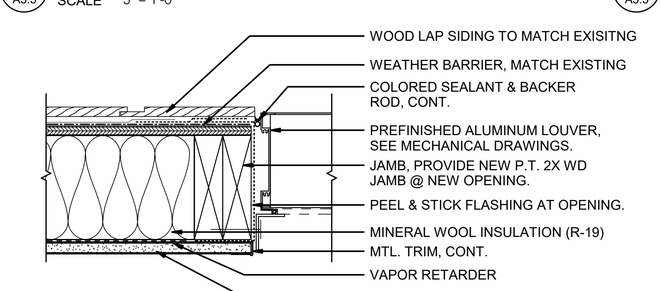
9 A5.5 JAMB AND HEADER AT NEW EXIT
SCALE 3" = 1'-0"



10 A5.5 DOOR HEADER AT STOREFRONT WALL
SCALE 3" = 1'-0"



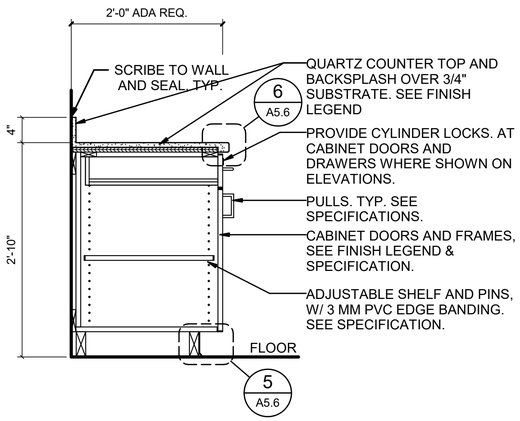
11 A5.5 DOOR JAMB AT STOREFRONT WALL
SCALE 3" = 1'-0"



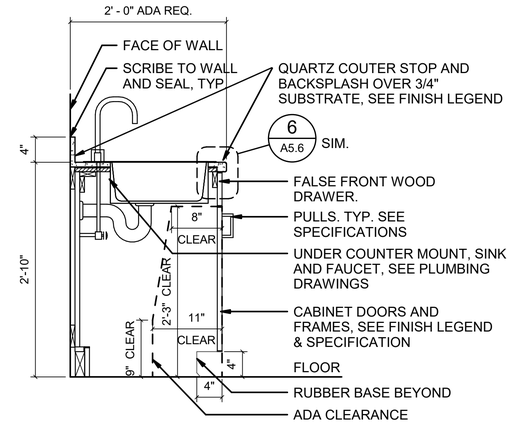
12 A5.5 LOUVER DETAIL
SCALE 3" = 1'-0"

STATE OF UTAH
KENT R. RIGBY
No. 135966
LICENSED ARCHITECT
04/21/2023

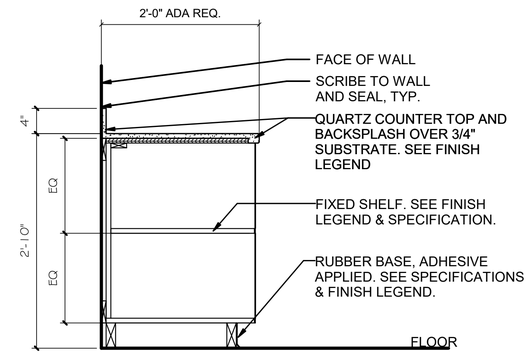
A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	A. LUSCHEN A. LUSCHEN TECH. REVIEW: K. RIGBY DATE: 12/09/2022	A5.5	DETAILS GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 58 OF 113



1 A5.6 CABINET - BASE
SCALE 1" = 1'-0"



2 A5.6 CABINET - BASE W/ SINK - ADA
SCALE 1" = 1'-0"



3 A5.6 CABINET - CUBBY 2FT 10IN
SCALE 1" = 1'-0"

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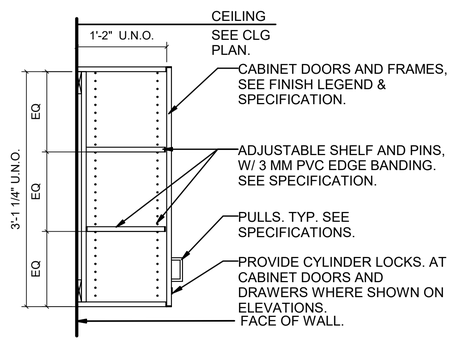
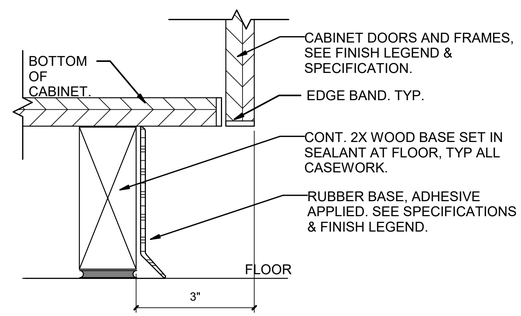
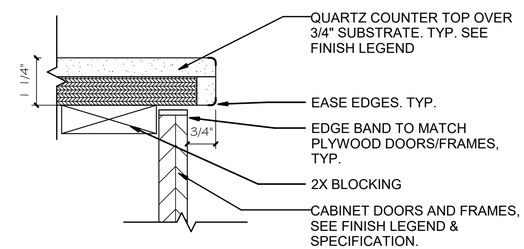


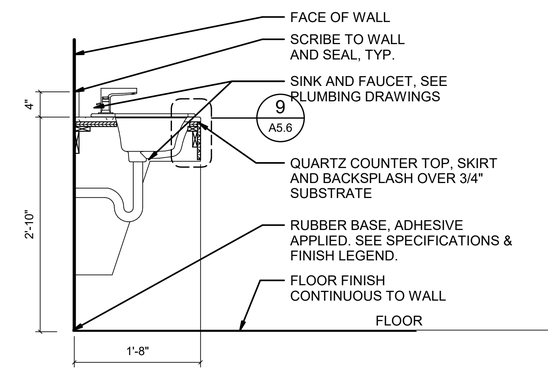
4 A5.6 CABINET - UPPER
SCALE 1" = 1'-0"



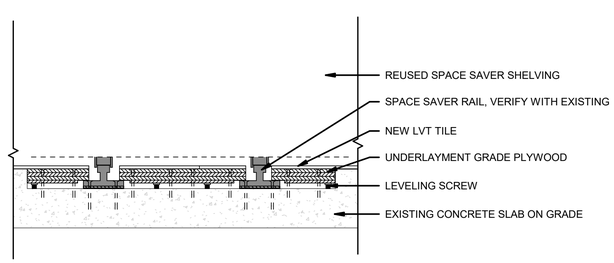
5 A5.6 CABINET - RUBBER BASE TK
SCALE 6" = 1'-0"



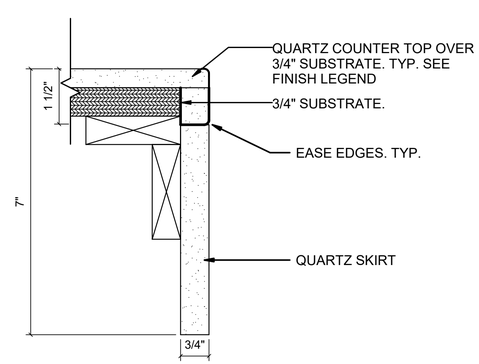
6 A5.6 CABINET - SOLID SURFACE NOSING
SCALE 6" = 1'-0"



7 A5.6 COUTERTOP W/ SINK AND SKIRT
SCALE 1" = 1'-0"



8 A5.6 SPACE SAVER SHELVING RAIL
SCALE 3" = 1'-0"



9 A5.6 CABINET - CANTILEVERED NOSING W/ SKIRT
SCALE 6" = 1'-0"

STATE OF UTAH
KENT R. RIGBY
No. 135096
LICENSED ARCHITECT
04/21/2023

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	Designer DADP Designer TECH. REVIEW: Author DATE: 12/09/2022	A5.6	DETAILS	431 175345
			GOLDEN SPIKE NATIONAL HISTORICAL PARK	PMIS/PKG NO. 308441
				SHEET 59 OF 113

GENERAL NOTES:

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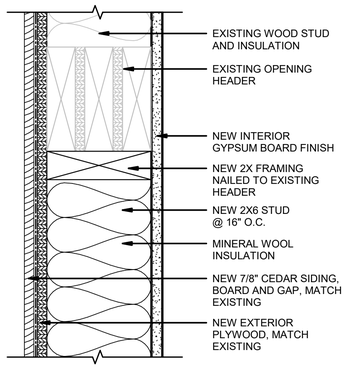
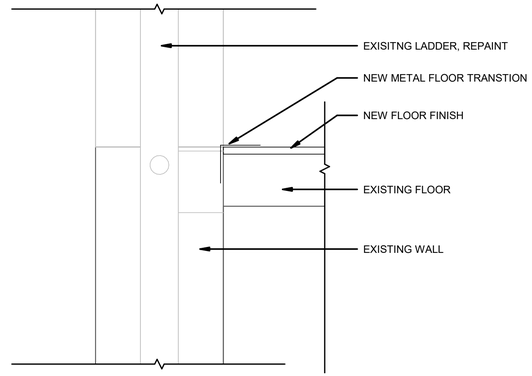


1 A5.7 NEW STUD WALL INFILL AT EXISTING EXTERIOR WALL - NEW FINISHES
SCALE 3" = 1'-0"



2 A5.7 EDGE OF FLOOR TRANSITION
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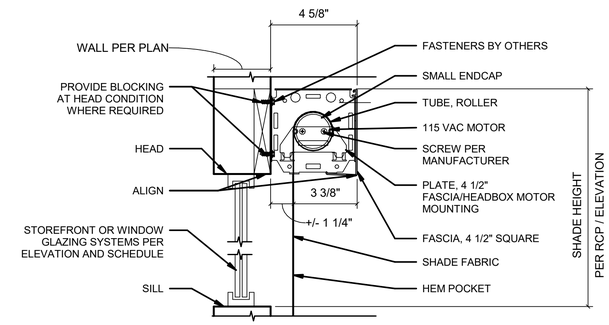
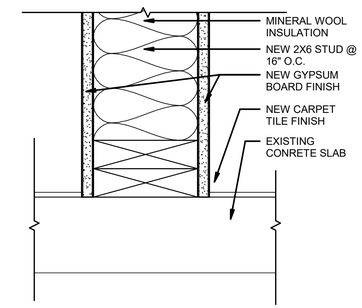
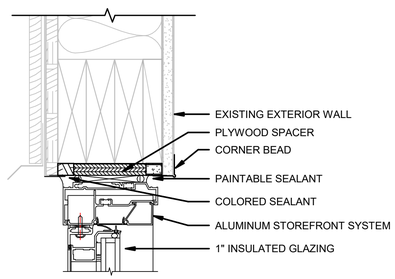


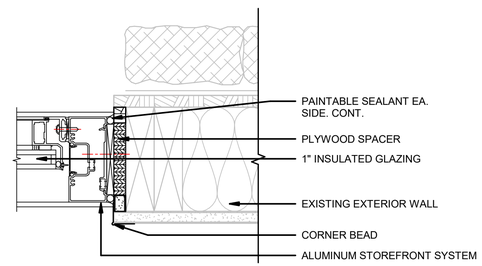
3 A5.7 MOTORIZED ROLLER SHADE
SCALE 3" = 1'-0"



4 A5.7 NEW WALL AT EXISTING FLOOR
SCALE 3" = 1'-0"



5 A5.7 EXT WALL - OPERABLE WINDOW HEADER AT WOOD SIDING
SCALE 3" = 1'-0"



6 A5.7 EXT WALL - OPERABLE WINDOW JAMB AT STONE SIDING
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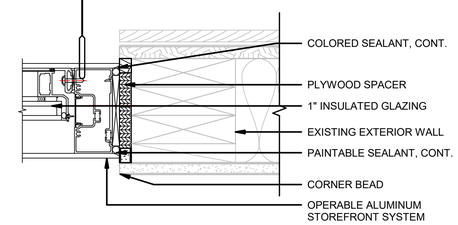
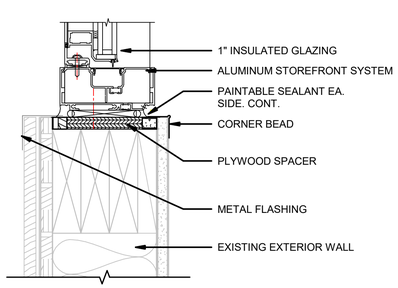
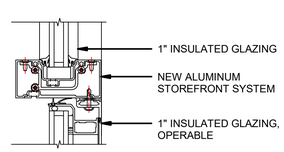


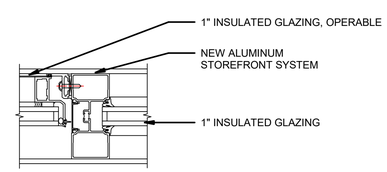
7 A5.7 EXT WALL - OPERABLE WINDOW JAMB AT WOOD SIDING
SCALE 3" = 1'-0"



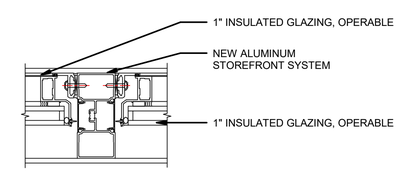
8 A5.7 EXT WALL - OPERABLE WINDOW SILL AT WOOD SIDING
SCALE 3" = 1'-0"



9 A5.7 0 OPERABLE WINDOW BELOW FIXED WINDOW
SCALE 3" = 1'-0"



10 A5.7 0 OPERABLE WINDOW NEXT TO FIXED WINDOW
SCALE 3" = 1'-0"



11 A5.7 0 OPERABLE WINDOW NEXT TO OPERABLE WINDOW
SCALE 3" = 1'-0"

STATE OF UTAH
KENT R. RIGBY
No. 135096
LICENSED ARCHITECT
04/21/2023

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	Designer DADD Designer TECH. REVIEW: Author DATE: 12/09/2022	A5.7	DETAILS GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 60 OF 113

GENERAL NOTES:

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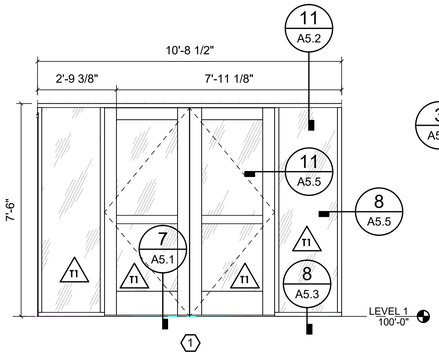
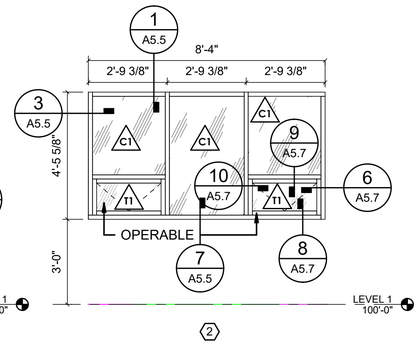
GLAZING TYPE SCHEDULE	
SYM.	DESCRIPTION
C1	CLEAR GLAZING 1" - INSULATED LOW E
C2	CLEAR GLAZING 1/4"
T1	TEMPERED CLEAR GLAZING 1" - INSULATED LOW E
T2	TEMPERED CLEAR GLAZING 1/4" - INTERIOR
T3	TEMPERED CLEAR GLAZING 1/2" - LOW E



1

KAWNEER TRIFAB VERSAGLAZE 451T
STOREFRONT SYSTEM
DARK BRONZE



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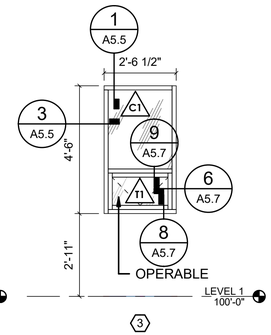
KAWNEER TRIFAB VERSAGLAZE 451T
STOREFRONT SYSTEM
DARK BRONZE



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KAWNEER TRIFAB VERSAGLAZE 451T
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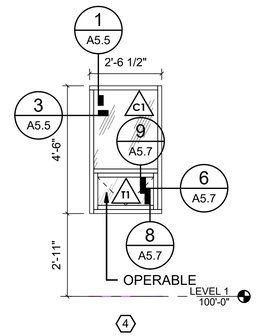

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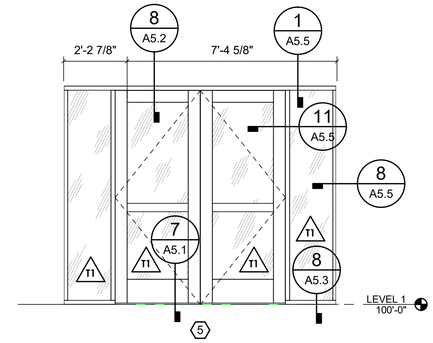
KAWNEER TRIFAB VERSAGLAZE 451T
STOREFRONT SYSTEM
DARK BRONZE



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STOREFRONT SYSTEM
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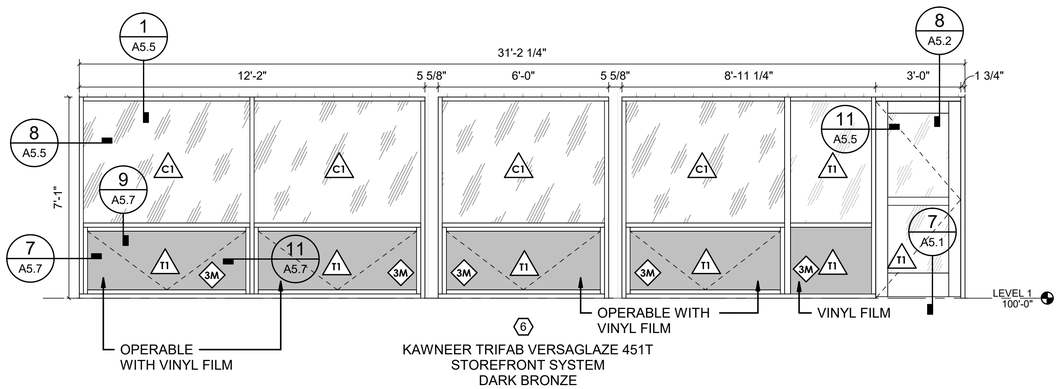

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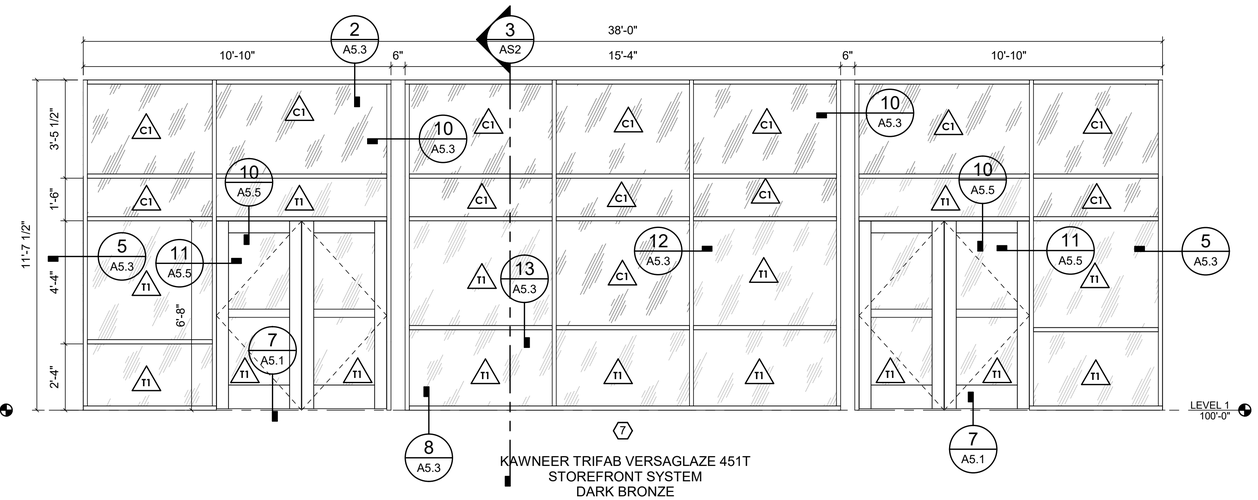

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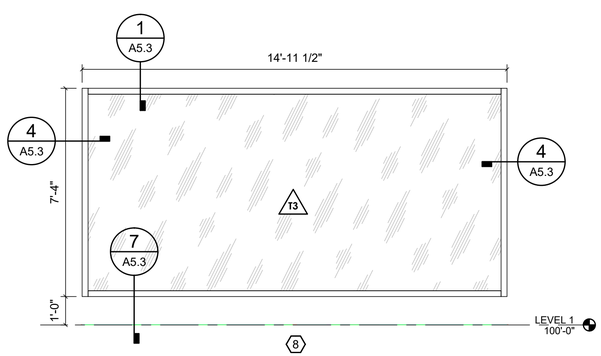
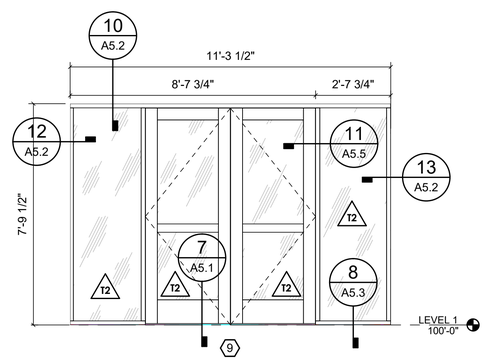


8

ASSA ABLOY ALUMINUM PICTURE WINDOW
CHANNEL FRAME
DARK BRONZE



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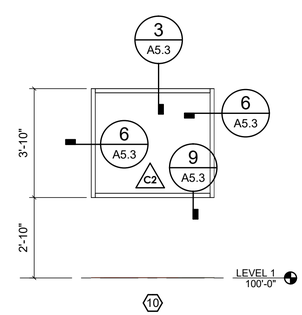

10

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STOREFRONT SYSTEM
DARK BRONZE

STATE OF UTAH
KENT R. RIGBY
No. 135096
LICENSED ARCHITECT
04/21/2023

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	A. LUSCHEN CADD A. LUSCHEN TECH. REVIEW: K. RIGBY DATE: 12/09/2022	A6.0	WINDOW TYPES - AREA A GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 61 OF 113

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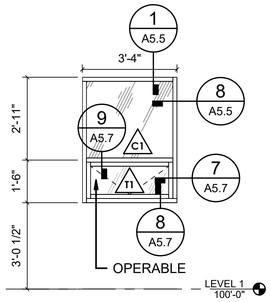

11

KAWNEER TRIFAB VERSAGLAZE 451T
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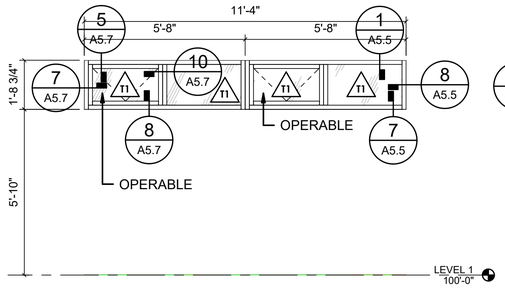
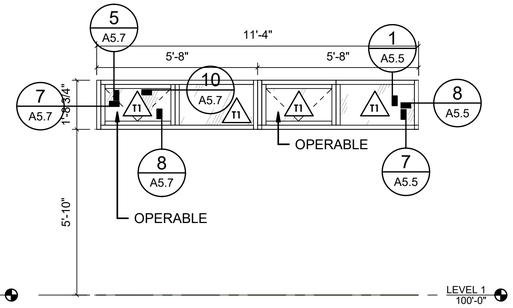


12

KAWNEER TRIFAB VERSAGLAZE 451T
STOREFRONT SYSTEM
DARK BRONZE



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KAWNEER TRIFAB VERSAGLAZE 451T
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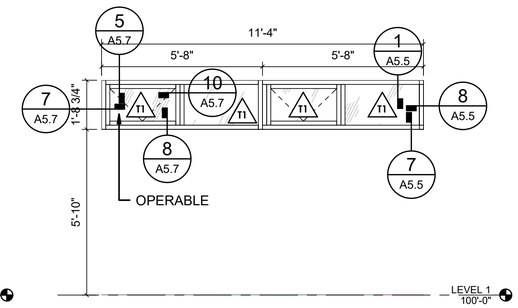
DARK BRONZE



14

KAWNEER TRIFAB VERSAGLAZE 451T
STOREFRONT SYSTEM
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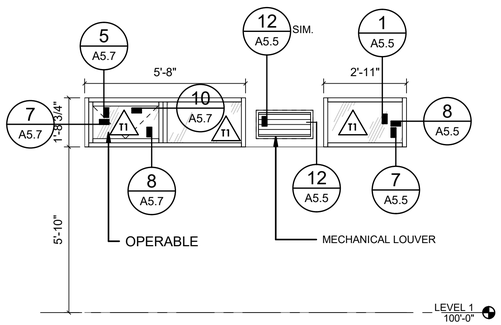

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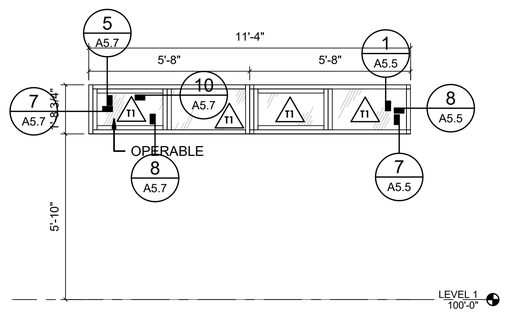
KAWNEER TRIFAB VERSAGLAZE 451T
STOREFRONT SYSTEM
DARK BRONZE



16

KAWNEER TRIFAB VERSAGLAZE 451T
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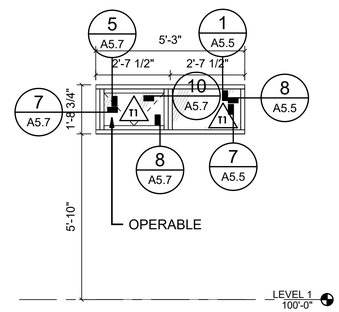
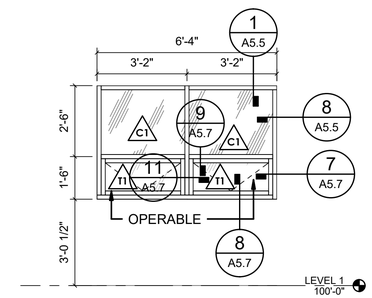
DARK BRONZE



17

KAWNEER TRIFAB VERSAGLAZE 451T
STOREFRONT SYSTEM
DARK BRONZE



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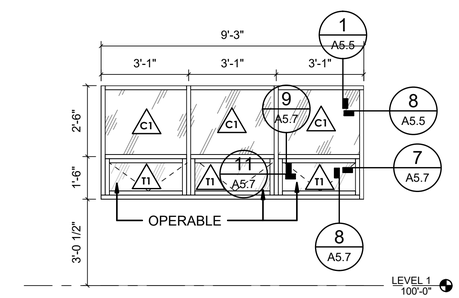
KAWNEER TRIFAB VERSAGLAZE 451T
STOREFRONT SYSTEM
DARK BRONZE



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KAWNEER TRIFAB VERSAGLAZE 451T
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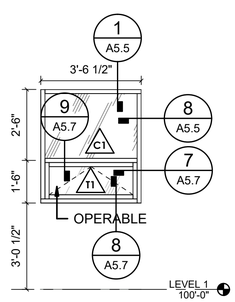

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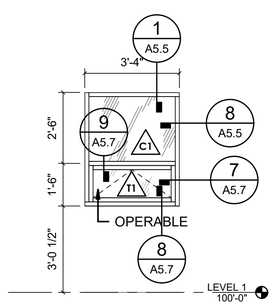
KAWNEER TRIFAB VERSAGLAZE 451T
STOREFRONT SYSTEM
DARK BRONZE



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KAWNEER TRIFAB VERSAGLAZE 451T
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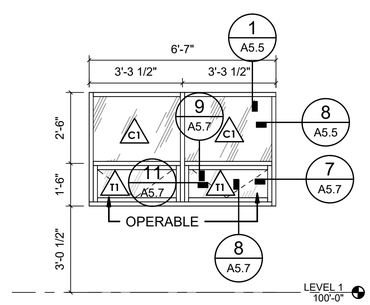
DARK BRONZE



22

KAWNEER TRIFAB VERSAGLAZE 451T
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DARK BRONZE

STATE OF UTAH
KENT R. RIGBY
No. 135096
LICENSED ARCHITECT
04/21/2023

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	A. LUSCHEN CADD A. LUSCHEN TECH. REVIEW: K. RIGBY DATE: 12/09/2022	A6.1	WINDOW TYPES - AREA B - ADD ALTERNATE GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 62 OF 113

BASIS OF DESIGN INDICATED BELOW. SEE SPECIFICATIONS FOR FURTHER INFORMATION ON ALL FINISH ITEMS. SUBSTITUTIONS MUST BE APPROVED BY ARCHITECT.

FINISH SCHEDULE

MATERIAL NAME	MATERIAL USE	MATERICAL TAG	DESCRIPTION	MANUFACTURER	STYLE/COLOR	LOCATION IN PROJECT
CASEWORK						
CASEWORK	COUNTERTOP	CT1	QUARTZ WORKSURFACE	DALTILE	ONE QUARTZ SURFACES MARBLE LOOK, FREEDOME CALACATTA	BREAK ROOM
CASEWORK	MILLWORK	ML1	PREMIUM LAMINATE - SOFT GRAIN FINISH	WILSONART	LANDMARK WOOD 7981 - STRAIGHT GRAINED WOOD LAMINATE WITHA MIX OF TEAK AND FAMIRE	BREAK ROOM, PARK STORE OFFICE, COPY AREA
CEILING FINISH AND PRODUCT						
CEILING FINISH AND PRODUCT	CEILING	USG	DRYWALL CEILING - SUSPENDED SYSTEM	USG ENSEMBLE	WHITE	PARK STORE, NEW OFFICES, BREAK ROOM
CEILING FINISH AND PRODUCT	CEILING	ACT	ACOUSTIC CEILING TILE	ARMSTRONG CEILING	OPTIMA PB CONCEALED - WHITE	ALL ADMIN PARK OFFICES AND CONFERENCE ROOM
CEILING FINISH AND PRODUCT	CEILING	GYP	GYP BOARD			
CEILING FINISH AND PRODUCT	CEILING	CRK	CORK CEILING TILES ADHEARED TO SMOOTH DRYWALL SURFACE	GRANORTE OR JELINEK OR SIMILAR	MATCH EXISTING	RECEPTION & ORIENTATION
FLOOR FINISH						
FLOOR FINISH	FLOOR PAINT	EPT	EPOXY PAINT	CITADEL FLOOR FINISHING SYSTEMS	LIGHT GRAY	
FLOOR FINISH	FLOORING	LVT1	TEXTURED WOODGRAIN LVT	INTERFACE	RUSTIC HICKORY	ADMIN BREAK ROOM, LIBRARY, AND HALLWAYS
FLOOR FINISH	FLOORING	CT1	CARPET TILE	MOHAWK GROUP	DIFFUSE - 751 AGGREGATE	ALL DESIGN MIND AREAS, AUDITORIUM, NEW OFFICES, NEW ADMIN OFFICES AND CONFERENCE ROOM
FLOOR FINISH	FLOORING	FT1	CERAMIC FLOOR TILE	DALTILE	COLUMN GREY AR09	ALL BATHROOMS
FLOOR FINISH	FLOORING	MT1	WALK OFF MAT	SHAW CONTRACT	ENTRYWAY - WELCOME II TILE - EBONY 31500	VESTIBULE
FLOOR FINISH	FLOORING	VT1	VINYL COMPOSITE TILE	MARMOLEUM	E3573 TRACE OF NATURE - FLOW PATTERN	PROJECTION ROOM, MEZZANINE
MISC.						
MISC.	PRIVACY FILM	3M	TRANSLUCENT PRIVACY FILM OVER GLASS	3M OR SIMILAR	VERIFY OPACITY W/ CONTRACTING OFFICER	SEE WINDOW TYPES
PAINT (INTERIOR)						
PAINT	CEILING FINISH	PT1	CEILING PAINT	SHERWIN WILLIAMS	SW7006 EXTRA WHITE, FLAT	SEE CEILING PLANS
PAINT	COLUMN PAINT	PT6	COLUMN PAINT	SHERWIN WILLIAMS	NATIONAL PARK SERVICE BROWN - MATCH STOREFRONT?	
PAINT	DOOR FINISH	PT4	HOLLOW METAL DOOR PAINT	SHERWIN WILLIAMS	SW 7504 KEYSTONE GRAY, SEMI GLOSS	ADMIN WING, EXTERIOR DOORS
PAINT	LADDER PAINT	PT5	LADDER PAINT	SHERWIN WILLIAMS	SW 6868 REAL RED, SEMI GLOSS	LADDER IN MEZANNINE ACCESS
PAINT	WALL FINISH	PT2	WALL PAINT	SHERWIN WILLIAMS	SW7569 STUCCO, EGGSHELL	SEE ELEVATIONS
PAINT	WALL FINISH	PT3	WALL PAINT	SHERWIN WILLIAMS	SW 6221 MOODY BLUE, EGGSHELL	LEGACY HALLWAY ACCENT WALLS
PAINT	WALL FINISH	PT5	WALL PAINT	SHERWIN WILLIAMS	SW 6991 BLACK MAGIC, EGGSHELL	RECEPTION WINDOW BOX
STAIN						
STAIN	DOOR, TRIM, BASE FINISH		STAIN	ASSA ABLOY	#400 PLAIN SLICED RED OAK - SS1 STAIN GROUP	
TRANSITION STRIP						
TRANSITION STRIP	FLOOR TRANSITION STRIP		METAL TRANSITION STRIP - LVT TO CARPET	SCHLUTER SYSTEMS		INTERIOR TO EXTERIOR TRANSITION
TRANSITION STRIP	FLOOR TRANSITION STRIP		MARBLE TRANSITION STRIP - TILE TO LVT	SCHLUTER SYSTEMS		TILE TO LVT TRANSITION
TRANSITION STRIP	FLOOR TRANSITION STRIP		RUBBER TRANSITION STRIP CARPET TO OTHER	SCHLUTER SYSTEMS		CARPET TO OTHER FLOORING TRANSITION
WALL BASE						
WALL BASE	BASE	B1	4" PROFILE RUBBER BASE	ROPPE	193 BLACK BROWN	SEE ELEVATIONS
WALL BASE	BASE	B2	DILEX-AHK COVE BASE PROFILE	SCHLUTER	BRONZE	ALL RESTROOMS
WALL BASE	BASE	B3	4" PROFILE WOOD BASE		STAIN	RECEPTION, AUDITORIUM
WALL FINISH						
WALL FINISH	RESTROOM PARTITIONS		SOLID PLASTIC PARTITION	ASI GLOBAL PARTITIONS	SOLID PLASTIC HDPE, METALIC SILVER 9511	PUBLIC RESTROOMS
WALL FINISH	ROLLER SHADE		MOTORIZED ROLLER SHADE	DRAPER SHADES	MOTORIZED FLEXSHADE COLOSSAL, E SCREEN 3% WHITE/LINEN	
WALL FINISH	TILE	WT1	CERAMIC WALL TILE	DALTILE	EDITORIAL WHITE AR 06	ALL RESTROOMS

ACCESSORY SCHEDULE

ACCESSORY MANUFACTURER	ACCESSORY	ACCESSORY DESCRIPTION/FINISH	COUNT	LOCATION OF ACCESSORY
AMERICAN SPECIALTIES	SANITARY NAPKIN/TAMPON VENDOR	0464 SANITARY NAPKIN/TAMPON DISPENSER, SEMI-RECESSED, STAINLESS STEEL	1	AREA C - WOMENS LAV
AMERICAN SPECIALTIES	BABY CHANGING STATIONS	9012 HORIZONTAL BABY CHANGING STATION	2	AREA C - MENS AND WOMENS LAV
BOBRICK	AUTOMATIC PAPER TOWEL (ROLL) DISPENSER	B-2974 SURFACE MOUNTED AUTOMATIC, UNIVERSAL ROLL PAPER TOWEL DISPENSER	1	AREA B - PRIVATE LAV
BOBRICK	GRAB BAR 18"	STAINLESS STEEL GRAB BAR, SERIES B-6806	3	PUBLIC, MENS AND WOMENS LAVS
BOBRICK	GRAB BAR 36"	STAINLESS STEEL GRAB BAR, SERIES B-6806	3	PUBLIC, MENS AND WOMENS LAVS
BOBRICK	GRAB BAR 42"	STAINLESS STEEL GRAB BAR, SERIES B-6806	3	AREA B - PRIVATE LAV
BOBRICK	PAPER TOWEL DISPENSER	B-263, SURFACE MOUNTED, STAINLESS STEEL	1	BREAK ROOM
BRADLEY	SOAP DISPENSER	6A01-11 SURFACE MOUNTED FOAM TANK TYPE, STAINLESS STEEL	5	ALL BATHROOMS AND BREAK ROOM
BRADLEY	STAINLESS STEEL MIRROR UNIT	SA01,CHASE MOUNTED, STAINLESS STEEL, 20 GA 12" X 16"	1	AREA B - PRIVATE LAV
BRADLEY	TOILET TISSUE HOLDER	5A10-11, SURFACE MOUNTED, STAINLESS STEEL, 14GA	7	ALL RESTROOMS
BRADLEY	SANITARY NAPKIN DISPOSAL	4A10 SANITARY NAPKIN DISPOSAL, SURFACE MOUNTED, STAINLESS STEEL	4	AREA C - WOMENS LAV
BRADLEY	STAINLESS STEEL MIRROR UNIT	U711 CHANNEL FRAME MIRROR, 60" X 36"	2	AREA C - MENS AND WOMENS LAV
EXCEL	HAND DRYER	THIN AIR HAND DRYER TA-SB	4	AREA C - MENS AND WOMENS LAV

PAINT (EXTERIOR)	MATERIAL USE	PAINT NAME	MANUFACTURER	BAC COLORANT	OZ	32	64	128
PAINT	EXTERIOR WALLS	BRIARPATCH - EXTERIOR A100 GLOSS ARCHITECTURAL LATEX IFC 8012 ULTRA DEEP	SHERWIN WILLIAMS	W1-WHITE	14	39	1	-
				B1-BLACK	20	26	-	1
				N1-RAW UMBER	8	14	-	-
				R2-MAROON	2	51	-	-
				Y3-DEEP GOLD	10	2	1	-
PAINT	EXTERIOR TRIM	DESERT BROWN-EXTERIOR A100 GLOSS ARCHITECTURAL LATEX IFC 8012 ULTRA DEEP	SHERWIN WILLIAMS	B1-BLACK	8	49	-	-
				N1-RAW UMBER	40	8	1	1
				R2-MAROON	2	49	1	1
				W1-WHITE	-	53	1	1
PAINT	EXTERIOR EAVE / ENTRYWAY CEILING	SW7006 EXTRA WHITE, FLAT	SHERWIN WILLIAMS					

GENERAL NOTES:

SEE SHEET G1 FOR DRAWING INDEX.

SEE SHEET G2 FOR SYMBOLS LEGEND AND ABBREVIATIONS.

SEE SHEET G3 FOR GENERAL NOTES AND LEGEND.

DO NOT SCALE DRAWINGS.

CONTRACTOR / SUBCONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK, AND SHALL REPORT TO THE CONTRACTING OFFICER ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.

GLAZING TYPE SCHEDULE

SYM.	DESCRIPTION
C1	CLEAR GLAZING 1" - INSULATED LOW E
C2	CLEAR GLAZING 1/4"
T1	TEMPERED CLEAR GLAZING 1" - INSULATED LOW E
T2	TEMPERED CLEAR GLAZING 1/4" - INTERIOR
T3	TEMPERED CLEAR GLAZING 1/2" - LOW E

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	A. LUSCHEN CADD A. LUSCHEN TECH. REVIEW: K. RIGBY DATE: 12/09/2022 NPS REV: 4/1/2025	A6.2	FINISH AND ACCESSORY SCHEDULE GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 63 OF 113

GENERAL NOTES:

SEE SHEET G1 FOR DRAWING INDEX.

SEE SHEET G2 FOR SYMBOLS LEGEND AND ABBREVIATIONS.

SEE SHEET G3 FOR GENERAL NOTES AND LEGEND.

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DOOR & FRAME SCHEDULE

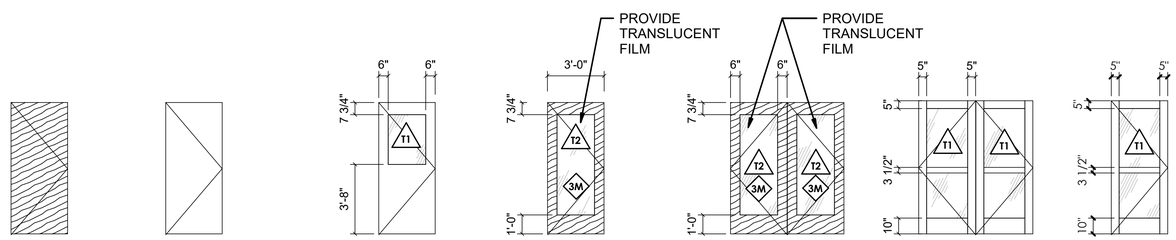
DOOR NO.	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	FIRE RATING	DOOR TYPE	FRAME TYPE	COMMENTS
100	6'-0"	7'-4 1/4"		PALFL	3	
101	6'-0"	7'-7 3/4"		PALFL	3	
102A	6'-0"	6'-8"		PALFL	3	
102B	6'-0"	6'-8"		PALFL	3	
104	2'-10"	7'-0"		WDFL	1	
105	6'-0"	7'-6 1/2"		PALFL	3	
107A	6'-0"	7'-0"		PWDFL	2	
109	3'-0"	7'-0"		WD	1	
109A	3'-0"	6'-11 1/4"		ALFL	3	
111	3'-0"	7'-0"		WD	1	
112	3'-0"	7'-0"		WD	1	
116	4'-0"	7'-0"		WDHL	1	REKEYED
117	3'-0"	7'-0"		WD	1	REKEYED
118	3'-0"	7'-0"		WD	1	REKEYED
A115	3'-0"	7'-0"		HML	1	
A117	3'-0"	7'-0"		WD	1	
A118	3'-0"	7'-0"		HM	1	
A119	3'-0"	7'-0"		WD	1	
A120	3'-0"	7'-0"		WD	1	
A121	3'-0"	7'-0"		WD	1	
A122	3'-0"	7'-0"		WD	1	
A124	3'-0"	7'-0"		WD	1	
A125	3'-0"	7'-0"		WD	1	
A125A	3'-0"	7'-0"		HML	1	
A126	2'-10"	7'-0"		WD	1	

GLAZING TYPE SCHEDULE

SYM.	DESCRIPTION
C1	CLEAR GLAZING 1" - INSULATED LOW E
C2	CLEAR GLAZING 1/4"
T1	TEMPERED CLEAR GLAZING 1" - INSULATED LOW E
T2	TEMPERED CLEAR GLAZING 1/4" - INTERIOR
T3	TEMPERED CLEAR GLAZING 1/2" - LOW E

*PROVIDE TRANSLUCENT FILM WHERE INDICATED ON DOOR TYPE.

NOTE: ALL DOOR HARDWARE FINISH COLOR TO BE DULL / DARK BRONZE, VERIFY WITH CONTRACTING OFFICER.



WD
WOOD DOOR, STAINED

HM
HOLLOW METAL DOOR, PAINTED, INSULATED AT EXTERIOR

HML
HOLLOW METAL DOOR WITH HALF LIGHT, PAINTED, INSULATE AT EXTERIOR

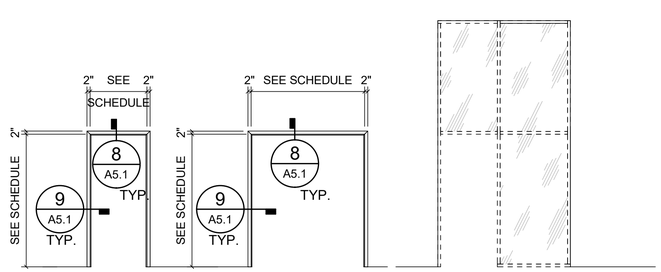
WDFL
WOOD DOOR WITH FULL LIGHT, STAINED.

PWDFL
PAIRED WOOD DOOR WITH FULL LIGHT, STAINED.

PALFL
PAIRED ALUMINUM MEDIUM STILE WITH FULL LIGHT, DARK BRONZE

ALFL
ALUMINUM MEDIUM STILE WITH FULL LIGHT, DARK BRONZE

2 / A7.0 LEGEND - DOOR TYPES
SCALE 1/4" = 1'-0"



1
HOLLOW METAL DOOR, PAINTED, INSULATE AT EXTERIOR

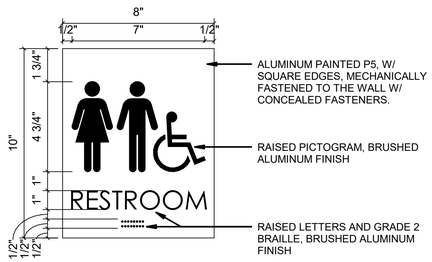
2
HOLLOW METAL FRAME, PAINTED

3
SEE WINDOW TYPES

3 / A7.0 LEGEND - FRAME TYPES
SCALE 1/4" = 1'-0"

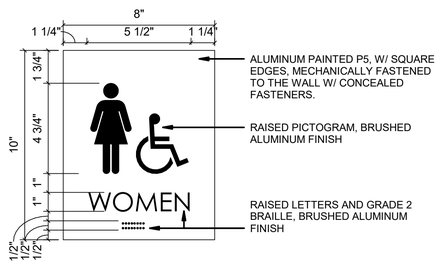
STATE OF UTAH
KENT R. RIGBY
No. 135990
LICENSED ARCHITECT
04/21/2023

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	A. LUSCHEN CADD A. LUSCHEN TECH. REVIEW: K. RIGBY DATE: 12/09/2022	A7.0	DOOR & FRAME TYPES & SCHEDULE GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 64 OF 113



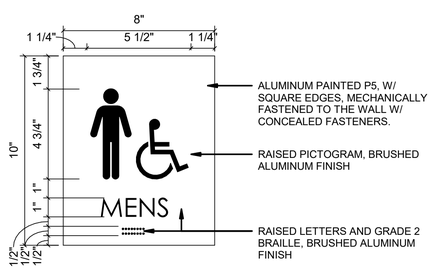
1 / A8.0 ACCESSIBLE RESTROOM SIGNAGE

SCALE 3" = 1'-0"



2 / A8.0 WOMENS RESTROOM SIGNAGE

SCALE 3" = 1'-0"



3 / A8.0 MENS RESTROOM SIGNAGE

SCALE 3" = 1'-0"

GENERAL NOTES:

SEE SHEET G1 FOR DRAWING INDEX.

SEE SHEET G2 FOR SYMBOLS LEGEND AND ABBREVIATIONS.

SEE SHEET G3 FOR GENERAL NOTES AND LEGEND.

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STATE OF UTAH
KENT R. RIGBY
No. 135096
LICENSED ARCHITECT
04/21/2023

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	A. LUSCHEN CADD A. LUSCHEN TECH. REVIEW: K. RIGBY DATE: 12/09/2022	A8.0	SIGNAGE GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 65 OF 113

SYMBOL LEGEND - PIPING

NOTE: ALL ABBREVIATIONS MAY NOT BE USED.

SYMBOL	DESCRIPTION
	SHUT OFF VALVE
	GATE VALVE
	CHECK VALVE
	AUTOMATIC 2-WAY VALVE
	AUTOMATIC 3-WAY VALVE
	GLOBE VALVE
	BALL VALVE
	RELIEF VALVE
	PRESSURE REDUCING VALVE
	BUTTERFLY VALVE
S	SOLENOID VALVE
	ANGLE VALVE
	BALANCING OR PLUG COCK
	FLOW SETTER
	EXPANSION VALVE
	GAS COCK
	STRAINER
	GAUGE COCK
	FLEXIBLE CONNECTION
	PRESSURE GAUGE
	THERMOMETER
	PIPE REDUCER
	REFRIGERANT SITE GLASS
	REFRIGERANT FILTER DRIER
	90 DEGREE ELBOW UP
	90 DEGREE ELBOW DOWN
	90 DEGREE TEE UP
	90 DEGREE TEE DOWN
	PIPE UNION
	PIPE CAP
	FLOAT AND THERMOSTATIC TRAP

SYMBOL LEGEND - MISC

REFERENCE LINES AND SYMBOLS

SYMBOL	DESCRIPTION
- / ---	VIEW OR DETAIL INDICATOR: # INDICATES DETAIL NUMBER, SHEET INDICATES DRAWING SHEET WHERE VIEW OR DETAIL IS SHOWN.
- / ---	ELEVATION OR SECTION INDICATOR: # INDICATES VIEW NUMBER, SHEET INDICATES DRAWING SHEET WHERE VIEW IS SHOWN.
NAME AREA	ROOM / SPACE INDICATOR
#	KEYNOTE INDICATOR
#	REVISION INDICATOR
XX-##	PLUMBING FIXTURE INDICATOR
XX-##	EQUIPMENT INDICATOR
TAG CFM	REGISTER, GRILLE, OR DIFFUSER INDICATOR
OR	BREAKLINE
MATCH LINE SEE XX/XXX	MATCHLINE INDICATOR
	CONTRACT LIMIT LINE: DASHDOT, WIDE LINE
	NEW CONNECTION TO EXISTING
	POINT OF DEMOLITION

SYMBOL LEGEND - DUCTWORK

NOTE: ALL ABBREVIATIONS MAY NOT BE USED.

SYMBOL	DESCRIPTION
	RECTANGULAR SUPPLY DUCT UP
	RECTANGULAR SUPPLY DUCT DOWN
	RECTANGULAR RETURN DUCT UP
	RECTANGULAR RETURN DUCT DOWN
	RECTANGULAR EXHAUST DUCT UP
	RECTANGULAR EXHAUST DUCT DOWN
	ROUND SUPPLY DUCT UP
	ROUND SUPPLY DUCT DOWN
	ROUND RETURN DUCT UP
	ROUND RETURN DUCT DOWN
	ROUND EXHAUST DUCT UP
	ROUND EXHAUST DUCT DOWN
	SPIRAL OVAL DUCT
	SPIRAL ROUND DUCT
	DUCT INSULATION
	DUCT LINING
	90° RECTANGULAR ELBOW WITH TURNING VANES
	90° ROUND RADIUS ELBOW
	GORED OVAL RADIUS ELBOW
	DUCT SIZE OR SHAPE TRANSITION
	DUCT TO BE DEMOLISHED

PIPING LEGEND

NOTE: ALL ABBREVIATIONS MAY NOT BE USED.

ABBREVIATION	DESCRIPTION
CA	COMPRESSED AIR
CD	CONDENSATE DRAIN
C02	CARBON DIOXIDE
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
FP	FIRE PROTECTION
GR	GLYCOL RETURN
GS	GLYCOL SUPPLY
HPC	HIGH PRESSURE CONDENSATE
MPC	MEDIUM PRESSURE CONDENSATE
LPC	LOW PRESSURE CONDENSATE
HPS	HIGH PRESSURE STEAM
MPS	MEDIUM PRESSURE STEAM
LPS	LOW PRESSURE STEAM
HHWR	HEATING HOT WATER RETURN
HHWS	HEATING HOT WATER SUPPLY
LPG	LIQUID PROPANE GAS
LPS	LOW PRESSURE STEAM
NG	NATURAL GAS
PC	PUMPED CONDENSATE
RG	REFRIGERANT GAS
RL	REFRIGERANT LIQUID

SYMBOL LEGEND - MECH

NOTE: ALL ABBREVIATIONS MAY NOT BE USED.

SYMBOL	DESCRIPTION
	SQUARE OR RECTANGULAR SUPPLY DIFFUSER
	SQUARE OR RECTANGULAR RETURN DIFFUSER
	SQUARE OR RECTANGULAR EXHAUST DIFFUSER
	FLEXIBLE DUCT
	DUCT HIGH EFFICIENCY TAKE OFF WITH BALANCING DAMPER
	BALANCING DAMPER
P	FIRE / SMOKE COMBINATION DAMPER
T S H	THERMOSTAT - SENSOR - HUMIDISTAT

MECHANICAL SHEET INDEX

ME1.1	MECHANICAL COVER SHEET
ME1.2	MECHANICAL DETAILS
ME1.3	MECHANICAL DETAILS
ME1.4	MECHANICAL DETAILS
ME1.5	MECHANICAL SCHEDULES
MD1.1	MECHANICAL DEMO PLAN - AREA A
MD1.2	MECHANICAL DEMO PLAN - AREA B
MH1.1	MECHANICAL PLAN - AREA A
MH1.2	MECHANICAL PLAN - AREA B

ABBREVIATIONS

NOTE: ALL ABBREVIATIONS MAY NOT BE USED.

(E)	EXISTING
(F)	FUTURE
AC	AIR CONDITION(-ING,-ED)
APD	AIR PRESSURE DROP
BD	BALANCING DAMPER
BHP	BRAKE HORSE POWER
BTU	BRITISH THERMAL UNIT
BTUH	BTU/HOUR
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CV	CONTROL VALVE
DB	DRY BULB TEMPERATURE
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RECIRC
EA	EXHAUST AIR
EER	ENERGY EFFICIENCY RATIO
EFF	EFFICIENCY
ELEC	ELECTRIC
ELEV	ELEVATION
ENT	ENTERING
EVAP	EVAPORAT(-E, -ING, -ED, -OR)
EWT	ENTERING WATER TEMPERATURE
EXT	EXTERNAL
FD	FIRE DAMPER
FLA	FULL LOAD AMPS
FPI	FINS PER INCH
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FSD	FIRE SMOKE DAMPER
GE	GREASE EXHAUST
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HD	HEAD
HG	MERCURY
HP	HORSEPOWER
HR	HOUR
HTG	HEATING
HZ	HERTZ (FREQUENCY)
IN	INCH
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LH	LATENT HEAT
LRA	LOCKED ROTOR AMPS
LVG	LEAVING
LWT	LEAVING WATER TEMPERATURE
MBH	THOUSAND BTU PER HOUR
MCA	MINIMUM CIRCUIT AMPS
MFR	MANUFACTUR(-ER, -ED)
NC	NORMALLY CLOSED OR NOISE CRITERIA
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NPSH	NET POSITIVE SUCTION HEAD
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OD	OUTSIDE DIAMETER
OZ	OUNCE
PD	PRESSURE DROP OR DIFFERENCE
PH	PHASE
PPM	PARTS PER MILLION
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIA	PSI ABSOLUTE
PSIG	PSI GAUGE
RA	RETURN AIR
RECIRC	RECIRCULATE (-ER, -ED, -ING)
REFR	REFRIGERATION
REQD	REQUIRED
RLA	RATED LOAD AMPS
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SCFM	STANDARD CUBIC FEET PER MINUTE
SCW	SOFT COLD WATER
SH	SENSIBLE HEAT
SP	STATIC PRESSURE
SPEC(S)	SPECIFICATION(S)
SQ	SQUARE
STD	STANDARD
SW	SOIL, WASTE
TA(R)	TRANSFER AIR (RETURN)
TA(S)	TRANSFER AIR (SUPPLY)
TEMP	TEMPERATURE
TOT	TOTAL
TSTAT	THERMOSTAT
V	VOLT, VOLTAGE OR VENT
VAC	VACUUM
VAV	VARIABLE AIR VOLUME
VEL	VELOCITY
VENT	VENT, VENTILATION
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VOL	VOLUME
VTR	VENT THROUGH ROOF
WB	WET BULB TEMP
WC	WATER COLUMN
WG	WATER GAUGE
WPD	WATER PRESSURE DROP

MECHANICAL GENERAL NOTES

1. THE MECHANICAL DRAWINGS SHOW THE GENERAL DESIGN, ARRANGEMENT, & EXTENT OF THE MECHANICAL SYSTEM. BECAUSE OF THE SMALL SCALE OF THE DRAWINGS, THESE DRAWINGS DO NOT SHOW ALL OFFSETS, BENDS, OR ELBOWS NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. CONTRACTOR SHALL MAKE ALTERATIONS AS MAY BE NECESSARY TO MAKE THE SYSTEM COMPLETE & OPERATIONAL IN ACCORDANCE WITH THE DESIGN INTENT.
2. MAJOR DEVIATIONS SUCH AS CHANGES IN SIZES, WEIGHTS, QUANTITIES, OR MATERIAL REQUIRE PRIOR APPROVAL BY THE DESIGN ENGINEER.
3. THE DRAWINGS & SPECIFICATIONS HAVE BEEN PREPARED TO SUPPLEMENT EACH OTHER & SHALL BE INTERPRETED AS AN INTEGRAL UNIT WITH THE ITEMS SHOWN ON ONE & NOT THE OTHER BEING FURNISHED & INSTALLED AS THOUGH SHOWN AND CALLED OUT IN BOTH DOCUMENTS.
4. THE ENTIRE MECHANICAL INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE MOST RECENTLY ADOPTED BUILDING CODES, MECHANICAL CODE, PLUMBING CODE, ELECTRICAL CODE, & ALL OTHER APPLICABLE CITY, COUNTY, STATE, & FEDERAL CODES & REGULATIONS IN EFFECT.
5. THE ENTIRE MECHANICAL INSTALLATION SHALL CONFORM TO ALL CODES, RULES, REGULATIONS, & REQUIREMENTS OF THE BUILDING OWNER.
6. ALL MECHANICAL COMPONENTS AND EQUIPMENT SHALL BE INSTALLED TO CONFORM WITH ANY APPLICABLE LOCAL SEISMIC REQUIREMENTS.
7. PRIOR TO FABRICATION & INSTALLATION OF ANY MECHANICAL COMPONENT THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL MECHANICAL WORK WITH ALL OTHER BUILDING TRADES, INCLUDING BUILDING TRADES HIRED DIRECTLY BY THE OWNER. WHERE CONFLICTS MAY OCCUR, THEY SHALL BE RESOLVED PRIOR TO INSTALLATION.
8. VERIFY ALL REQUIRED SERVICE CONNECTIONS, INCLUDING ELECTRICAL CHARACTERISTICS, FOR ALL EQUIPMENT PRIOR TO ORDERING OR FABRICATING MECHANICAL EQUIPMENT AND COMPONENTS.
9. THE SPACE ABOVE CEILINGS IS LIMITED. CAREFUL COORDINATION IS REQUIRED WITH ALL TRADES BEFORE ANY PIPE, DUCT, OR EQUIPMENT IS ORDERED &/OR INSTALLED. ANY CONFLICTS &/OR CHANGES FOUND DURING INSTALLATION THAT RESULTS FROM THE LACK OF COORDINATION BY THE CONTRACTORS DURING THE SHOP DRAWING PROCESS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
10. ALL MECHANICAL INFORMATION IS NOT SHOWN ON THE MECHANICAL DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL INFORMATION ON ALL OTHER CONSTRUCTION DOCUMENTS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW & USE, WHERE APROPRIATE, ALL THE MECHANICAL DETAILS SHOWN ON THE DRAWINGS. DETAILS MAY OR MAY NOT BE CALLED OUT ON THE DRAWINGS WITH SYMBOLS OR KEYED NOTES. ANY CHANGES RESULTING FROM FAILURE TO INSTALL THE MECHANICAL SYSTEM WITHOUT USING THE INCLUDED DETAILS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
12. ALL EQUIPMENT SHALL BE INDEPENDENTLY SUPPORTED FROM STRUCTURAL MEMBERS. STRUCTURAL ELEMENTS SHOWN IN DETAILS MAY OR MAY NOT PERTAIN TO ANY PORTION OF THE BUILDING. COORDINATE ALL MOUNTING REQUIREMENTS WITH ARCHITECTURAL & STRUCTURAL DRAWINGS AND SPECIFICATIONS.
13. ALL MECHANICAL COMPONENTS AND EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH ALL MANUFACTURER RECOMMENDATIONS.
14. ALL SIMILAR EQUIPMENT SHALL BE OF THE SAME MANUFACTURER. AIR INLETS & OUTLETS OF SIMILAR TYPES SHALL BE OF THE SAME MANUFACTURER.
15. ANY PART OF THE MECHANICAL INSTALLATION THAT FAILS, IS DEEMED UNFIT, OR BECOMES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EQUIPMENT CHECK-IN, SAFEKEEPING, & DAMAGE.
16. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING DIFFUSERS & GRILLES.
17. CONTRACTOR SHALL OPERATE INSTALLED &/OR MODIFIED SYSTEMS & DEMONSTRATE ALL ASPECTS OF THE SYSTEM TO THE ENGINEER &/OR OWNER TO PROVE ALL ASSOCIATED SYSTEMS ARE OPERATIONAL.
18. DURING CONSTRUCTION THE CONTRACTOR SHALL MAINTAIN A SET OF AS-BUILT REDLINED RECORD DRAWINGS AT THE PROJECT SITE. ALL CHANGES OR DEVIATIONS IN LAYOUT, ROUTING, EQUIPMENT, COMPONENTS, & ACCESSORIES SHALL BE RECORDED. THESE REDLINED DRAWINGS SHALL BE GIVEN TO THE ARCHITECT / ENGINEER AFTER THE FINAL INSPECTION IN ACCORDANCE WITH PROJECT SPECIFICATIONS.

DEFINITIONS

NOTE: ALL DEFINITIONS MAY NOT BE USED.

INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED.

DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.

APPROVED: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.

FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."

INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."

PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."

INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE OPERATIONS THEY ARE ENGAGED TO PERFORM.

PROFESSIONAL ENGINEER
2-8-23
RYAN BOOGAARD
NO. 8677128
STATE OF UTAH

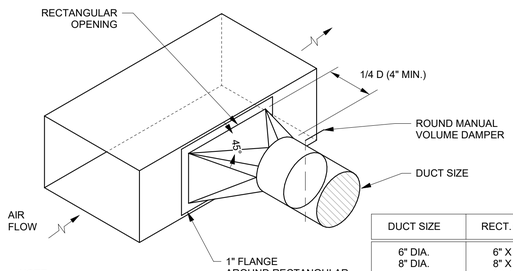
A/E FIRM
AJC ARCHITECTS
SALT LAKE CITY, UT 84104

DESIGNED: RHB
CADD: RHB
TECH. REVIEW: SSJ
DATE: 12/09/2022

SUB SHEET NO. ME1.1

TITLE OF DRAWING
MECHANICAL COVER SHEET
GOLDEN SPIKE NATIONAL HISTORICAL PARK

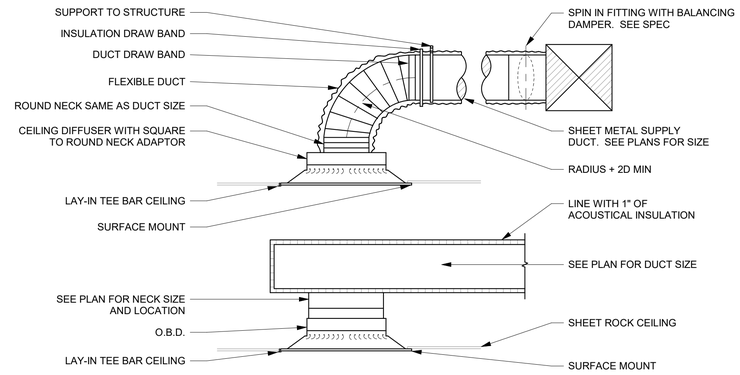
DRAWING NO. 431 / 175345
PMIS/PKG NO. 308441
SHEET 66 OF 113



NOTE:
CONSTRUCT FITTING PER SMACNA HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE FIGURE 2-6.

DUCT SIZE	RECT. OPNG.
6" DIA.	6" X 9"
8" DIA.	8" X 12"
10" DIA.	10" X 14"
12" DIA.	12" X 16"
14" DIA.	14" X 18"

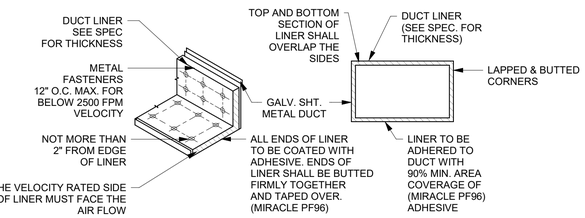
9 DUCT HIGH EFFICIENCY TAKE-OFF
SCALE: NTS



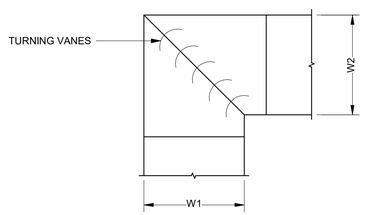
NOTES:
1. EXHAUST AND RETURN GRILLES ARE SIMILAR
2. EITHER METHOD IS ACCEPTABLE

6 CEILING DIFFUSER DETAIL W/ DUCTING
SCALE: NTS

METAL FASTENERS:
OMARK INSUL-PINS, DURA DYNE FASTENERS OR GRIP NAILS. GRIP NAILS SHALL BE INSTALLED BY "GRIP NAIL AIR HAMMER" OR BY AUTOMATIC FASTENER EQUIP.

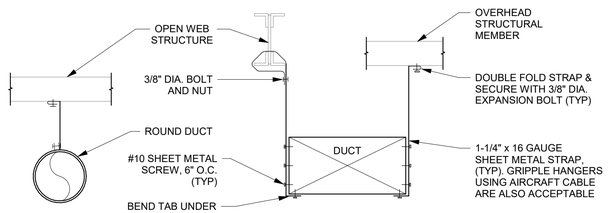


3 DUCT LINER
SCALE: NTS



NOTES:
1. ALL TURNING VANES SHALL BE SINGLE VANE TYPE REGARDLESS OF DIMENSION.
2. ALL SINGLE VANES SHALL HAVE A 2 INCH RADIUS, 1 INCH MAXIMUM SPACE BETWEEN VANES AND A 3/4 INCH TRAILING EDGE.

8 DUCT ELBOW - SQUARE
SCALE: NTS

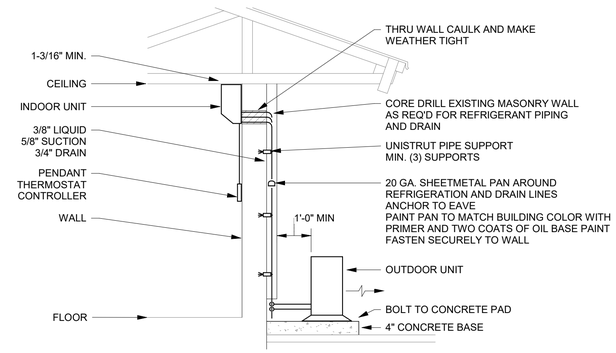


NOTE:
USE SPECIFIED SPACING AND NOT LESS THAN ONE SUPPORT PER BRANCH.

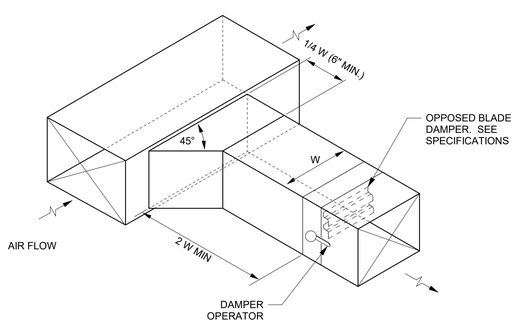
NOTE:
ONE HANGER REQUIRED DUCT 24" DIA. AND SMALLER, TWO HANGERS REQUIRED FOR DUCTS 26" DIA. AND LARGER.

NOTE:
REFER TO SMACNA HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE - THIRD EDITION FOR ALL REQUIREMENTS

5 DUCT HANGER
SCALE: NTS



2 AIR CONDITIONING UNIT DETAIL
SCALE: NTS

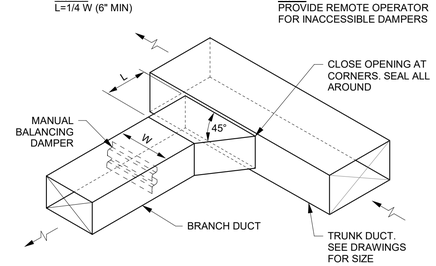


NOTE:
PROVIDE CONCEALED CEILING DAMPER REGULATOR FOR GYPSUM BOARD CEILINGS OR OTHER INACCESSIBLE LOCATIONS

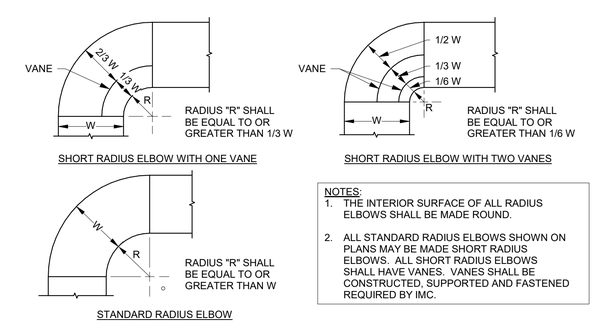
7 BRANCH TAKE-OFF
SCALE: NTS

NOTE:
L=1/4 W (6" MIN)

NOTE:
PROVIDE REMOTE OPERATOR FOR INACCESSIBLE DAMPERS



4 BRANCH DUCT TAKE-OFF
SCALE: NTS

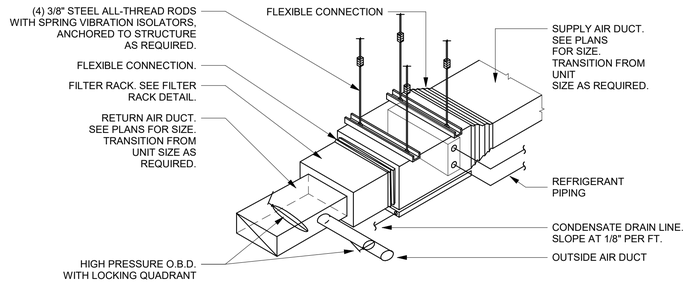


NOTES:
1. THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.
2. ALL STANDARD RADIUS ELBOWS SHOWN ON PLANS MAY BE MADE SHORT RADIUS ELBOWS. ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED AND FASTENED REQUIRED BY IMC.

1 DUCT ELBOW - ROUND
SCALE: NTS

PROFESSIONAL ENGINEER 2-8-23 RYAN BOOGAARD NO. 8677128 STATE OF UTAH

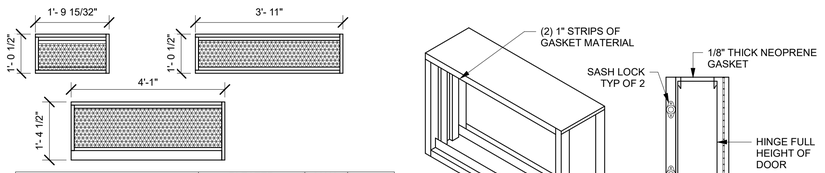
A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	RHB DRAWN: RHB TECH. REVIEW: SSJ DATE: 12/09/2022	ME1.2	MECHANICAL DETAILS GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 67 OF 113



6 VRF FAN COIL UNIT WITH FILTER

SCALE: NTS

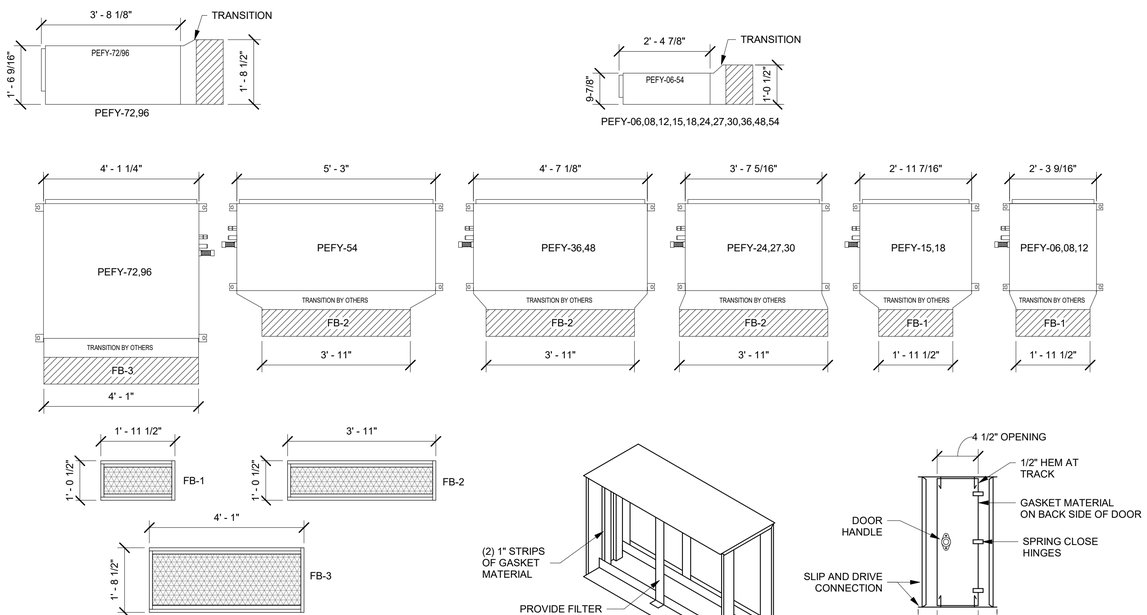
NOTE:
PROVIDE NECESSARY TRANSITION FROM RETURN DUCT SIZES SHOWN ON PLANS TO SIZES INDICATED HERE.



CITY MULTI MODELS	PLEATED FILTER SIZES	MAX. CFM	QTY
PEFY-P06, P08, P-12-NMAU-E	12 X 24 X 4	371	1
PEFY-P15, P18, P24-NMAU-E	12 X 24 X 4	671	1
PEFY-P27, P30-NMAU-E	12 X 24 X 4	742	2
PEFY-P36, P48, P-54-NMAU-E	12 X 24 X 4	1,483	2
PEFY-P72, P96-NMAU-E	16 X 25 X 4	2,541	2

5 VRF FILTER RACK DETAIL

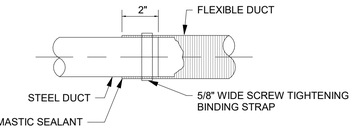
SCALE: NTS



ID	CITY MULTI MODELS	PLEATED FILTER SIZES	MAX.CFM	QUANTITY
FB-1	PEFY-P06, P08, P12-NMAU-E	12 X 24 X 4	371	1
FB-1	PEFY-P15, P18-NMAU-E	12 X 24 X 4	600	1
FB-2	PEFY-P24, P27, P30-NMAU-E	12 X 24 X 4	742	2
FB-2	PEFY-P36, P48, P54-NMAU-E	12 X 24 X 4	1,483	2
FB-3	PEFY-P72, P96-NMHU-E	20 X 25 X 4	2,966	2

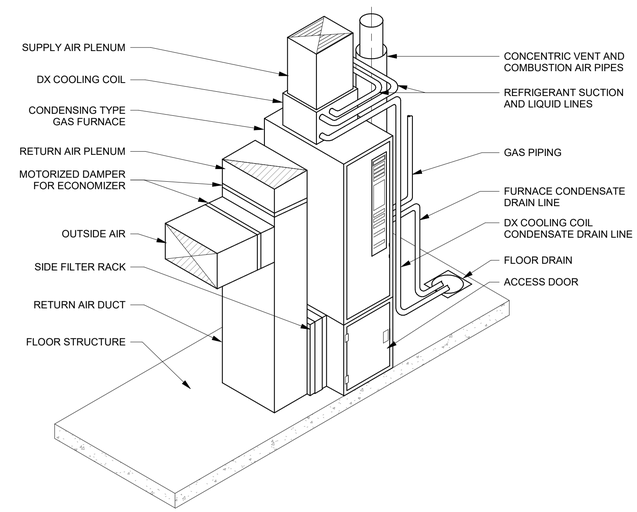
4 VRF FILTER RACK DETAIL MITSUBISHI

SCALE: NTS



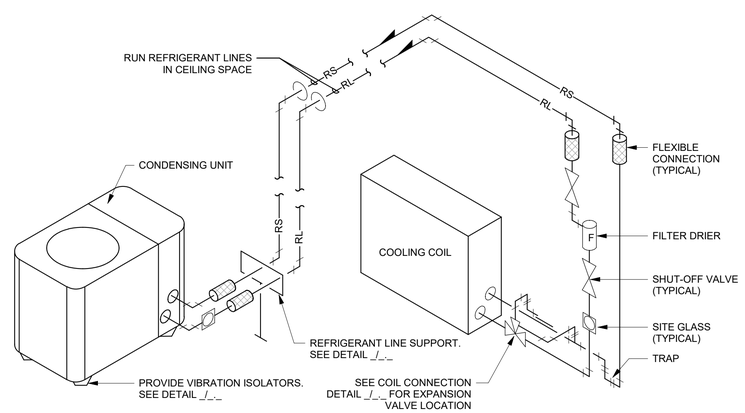
3 FLEXIBLE DUCT CONNECTION

SCALE: NTS



2 UPFLOW FURNACE DETAIL W/ ACCESS DOOR

SCALE: NTS



1 REFRIGERANT SCHEMATIC

SCALE: NTS

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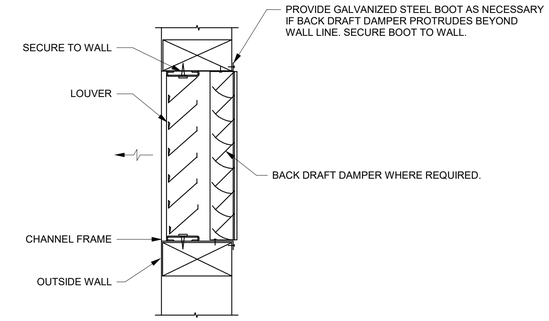
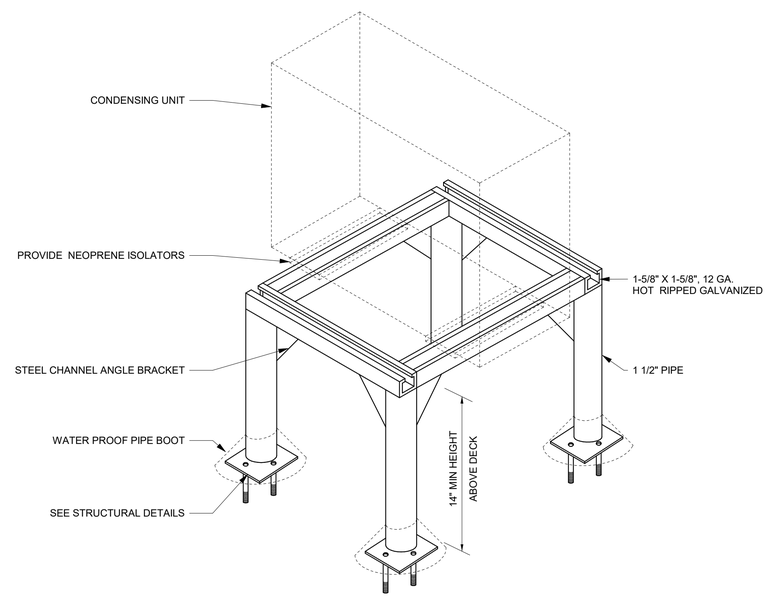
AJC ARCHITECTS SALT LAKE CITY, UT 84104	RHB CADD RHB TECH. REVIEW: SSJ DATE: 12/09/2022	ME1.3	MECHANICAL DETAILS	431 175345
				PMIS/PKG NO. 308441
			GOLDEN SPIKE NATIONAL HISTORICAL PARK	SHEET 68 OF 113



NOTE:
WALL STRUCTURE SHOWN IS GENERIC. COORDINATE WITH ARCHITECTURAL AND STRUCTURAL PLANS.

3 LOUVER DETAIL

SCALE: NTS

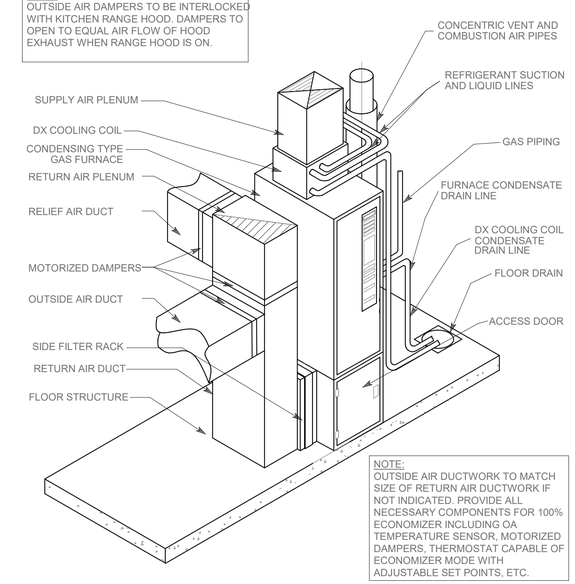


MIRO INDUSTRIES CONDENSER SUPPORT SYSTEM

2 CONDENSING UNIT SUPPORT

SCALE: NTS

NOTE:
OUTSIDE AIR DAMPERS TO BE INTERLOCKED WITH KITCHEN RANGE HOOD. DAMPERS TO OPEN TO EQUAL AIR FLOW OF HOOD EXHAUST WHEN RANGE HOOD IS ON.



NOTE:
OUTSIDE AIR DUCTWORK TO MATCH SIZE OF RETURN AIR DUCTWORK IF NOT INDICATED. PROVIDE ALL NECESSARY COMPONENTS FOR 100% ECONOMIZER INCLUDING OA TEMPERATURE SENSOR, MOTORIZED DAMPERS, THERMOSTAT CAPABLE OF ECONOMIZER MODE WITH ADJUSTABLE SET POINTS, ETC.

1 FURNACE WITH ECONOMIZER DETAIL

SCALE: NTS

PROFESSIONAL ENGINEER
2-8-23
RYAN BOOGAARD
NO. 8677128
STATE OF UTAH

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	RHB CADD RHB TECH. REVIEW: SSJ DATE: 12/09/2022	ME1.4	MECHANICAL DETAILS GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 69 OF 113

PROPANE FURNACE SCHEDULE

LABEL	TYPE	LOCATION	HEATING INPUT BTU	HEATING OUTPUT BTU	AFUE (%)	TOTAL COOLING BTU	AIRFLOW CFM	OUTSIDE AIR (CFM)	EXT. S. P.	WEIGHT (LBS)	HP	MCA	VOLTAGE	PHASE	Hz	MOCP	MANUFACTURER	MODEL	REMARKS
F-1a	PROPANE, UPFLOW	EXHIBIT, RECEPTION, RESTROOMS	100000.0 Btu/h	97000.0 Btu/h	95	48000.0 Btu/h	1600	250	0.50 in-wg	145	1	13.3 A	120	1	60	15	TRANE	S9X1C100	1-9
F-1b	PROPANE, UPFLOW	EXHIBIT, RECEPTION, RESTROOMS	100000.0 Btu/h	97000.0 Btu/h	95	48000.0 Btu/h	1600	250	0.50 in-wg	145	1	13.3 A	120	1	60	15	TRANE	S9X1C100	1-9
F-2	PROPANE, UPFLOW	AUDITORIUM	100000.0 Btu/h	97000.0 Btu/h	95	48000.0 Btu/h	1600	400	0.50 in-wg	145	1	13.3 A	120	1	60	15	TRANE	S9X1C100	1-8
F-3	PROPANE, UPFLOW	ADMINISTRATIVE WING	60000.0 Btu/h	57000.0 Btu/h	95	0.0 Btu/h	435	435	0.40 in-wg	160	1/2	11.1 A	115	3	60	15	TRANE	TUHMB060	1-8
F-4	PROPANE, UPFLOW	PARK STORE & ENTRY	60000.0 Btu/h	58200.0 Btu/h	96	30000.0 Btu/h	1000	200	0.50 in-wg	122	3/4	10.3 A	120	1	60	15	TRANE	S9X1B060	1-8
F-5	PROPANE, UPFLOW	PARK OFFICES	100000.0 Btu/h	97000.0 Btu/h	95	48000.0 Btu/h	1600	100	0.50 in-wg	145	1	13.3 A	120	1	60	15	TRANE	S9X1C100	1-8

1. PROVIDE WITH FILTER RACK, NEUTRALIZATION KIT, AND CONDENSATE PUMP.
2. PROVIDE WITH 4" MERV 13 FILTERS BY APRILAIRE.
3. PROVIDE WITH COOLING COIL TO MATCH AIRFLOW.
4. PROVIDE WITH CONCENTRIC VENT KIT AND INSTALL PER ALL MANUFACTURER'S RECOMMENDATIONS.
5. PROVIDE WITH HONEYWELL PRESTIGE IAQ THERMOSTAT. RUN A 7 CONDUCTOR THERMOSTAT WIRE FROM FURNACE TO THERMOSTAT.
6. ACCEPTABLE MANUFACTURERS: TRANE, CARRIER, LENNOX OR PRIOR APPROVED EQUAL.
7. PROVIDE FACTORY AUTHORIZED STARTUP OF EQUIPMENT INCLUDING STARTUP OF ANY FACTORY CONTROLS TO ENSURE PROPER SEQUENCING AND/OR COMMUNICATION TO BMS.
8. PROVIDE SECONDARY DRAIN PAN. PROVIDE WATER LEVEL ALARM (DIVERSITECH WS-1 WET SWITCH OR EQUAL) IN DRAIN PAN TO SHUT OFF UNIT WHEN HIGH WATER LEVEL IS DETECTED.
9. PROVDIE WITH HONEYWELL JADE W7220 CONTROLLER AND MOTORIZED DAMPERS FOR FULL ECONOMIZING.

EXHAUST FAN SCHEDULE

LABEL	AREA SERVED	CFM	STATIC PRESSURE	FAN RPM	SOUND RATING	WEIGHT (LBS)	WATTS	VOLTAGE	PHASE	Hz	MANUFACTURER	MODEL	REMARKS
EF-1	RESTROOM	65	0.20 in-wg	750	1.0 SONE	12	23	120	1	60	LOREN COOK	GC-128	1-5

1. INTERLOCK WITH LIGHTS AND PROVIDE 10 MINUTE RUN DELAY.
2. PROVIDE WITH BACKDRAFT DAMPER, DISCONNECT SWITCH, SUPPORT BRACKETS AND ISOLATOR, FLEXIBLE CONNECTION, AND BELT TENSIONER (BELT DRIVE MODELS ONLY).
3. PROVIDE VARIABLE SPEED CONTROLLER FOR ALL DIRECT DRIVE FANS. TEST AND BALANCE CONTRACTOR SHALL MARK BALANCED POSITION ON CONTROLLER.
4. ACCEPTABLE MANUFACTURERS: COOK, GREENHECK, PENN BARRY OR PRIOR APPROVED EQUAL.
5. PROVIDE FACTORY AUTHORIZED STARTUP OF EQUIPMENT INCLUDING STARTUP OF ANY FACTORY CONTROLS TO ENSURE PROPER SEQUENCING.

SPLIT SYSTEM CONDENSING UNIT SCHEDULE

LABEL	ASSOCIATED FURNACE	WEIGHT (LBS)	SOUND RATING	COOLING DATA		FAN HP	MCA	VOLTAGE	PHASE	Hz	MOCP	DISCONNECT		MANUFACTURER	MODEL	REMARKS
				CAPACITY (BTU)	EER							FURN BY ELEC	FURN BY MECH			
CU-1a	F-1a	189	71 dBA	48000.0	14	1/5	18	208	3	60	30	YES	NO	Trane	4TTA4048	1-9
CU-1b	F-1b	189	71 dBA	48000.0	14	1/5	18	208	3	60	30	YES	NO	Trane	4TTA4048	1-9
CU-2	F-2	189	71 dBA	48000.0	14	1/5	18	208	3	60	30	YES	NO	Trane	4TTA4048	1-9
CU-4	F-4	156	71 dBA	30000.0	14	1/8	17	208	1	60	25	YES	NO	Trane	4TTA4030	1-9
CU-5	F-5	189	71 dBA	48000.0	14	1/5	18	208	3	60	30	YES	NO	Trane	4TTA4048	1-9

1. PROVIDE WITH HAIL GUARDS.
2. PROVIDE WITH MIRO INDUSTRIES SUPPORT (SEE DETAIL ON SHEET ME1.4) AND NEOPRENE PADS AT ALL MOUNTING CONNECTION POINTS.
3. PROVIDE LIQUID LINE SPECIALTIES INCLUDING FILTER DRIER, SIGHT GLASS, TXV, SOLENOID VALVE, 24V 1ph CONTROL WIRE BY CONTROLS CONTRACTOR.
4. PROVIDE REFRIGERANT PIPING SIZED AS PER MANUFACTURER'S RECOMMENDATIONS. "ACR" COPPER ONLY.
5. COORDINATE REFRIGERANT CHARGE AND PIPING SIZES WITH EQUIVALENT LINE LENGTH TO MINIMIZE PRESSURE DROP AND CAPACITY LOSS.
6. PROVIDE BOOT AT ANY CONDENSER LINE PENETRATIONS INTO BUILDING ENVELOPE.
7. PROVIDE CRANKCASE HEATER.
8. ACCEPTABLE MANUFACTURERS: TRANE, CARRIER, LENNOX OR PRIOR APPROVED EQUAL.
9. PROVIDE FACTORY AUTHORIZED STARTUP OF EQUIPMENT INCLUDING STARTUP OF ANY FACTORY CONTROLS TO ENSURE PROPER SEQUENCING AND/OR COMMUNICATION TO BMS.

LOUVER SCHEDULE

LABEL	DESCRIPTION	NOMINAL SIZE	MINIMUM FREE AREA	MAX AIR VELOCITY	START of WATER PENETRATION	CFM	AIR P.D.	SCREEN TYPE	MANUFACTURER	MODEL	REMARKS
L-1	FRESH AIR INTAKE LOUVER	24"X12"***	0.50 SF	800 FPM	1110 FPM	460	0.06 in-wg	BIRD SCREEN	POTTORFF	EFD-637	1,2
L-2	FRESH AIR INTAKE LOUVER	42"X12"***	1.70 SF	800 FPM	1110 FPM	3200	0.06 in-wg	BIRD SCREEN	POTTORFF	EFD-637	1,2
L-3	FRESH AIR INTAKE LOUVER	18"X18"***	0.90 SF	800 FPM	1110 FPM	500	0.06 in-wg	BIRD SCREEN	POTTORFF	EFD-637	1,2

1. PROVIDE WITH BUG SCREEN
2. CUSTOM COLOR BY ARCHITECT

*** COORDINATE EXACT DIMENSIONS WITH OPEN SIZE AVAILABLE AND WALL FRAMING. EQUIVALENT SIZE WITH INDICATED FREE AREA OR LARGER MAY BE SUBSTITUDED TO MATCH FIELD CONDITIONS.

VRF - INDOOR UNIT SCHEDULE

LABEL	AREA SERVED	ARRANGEMENT	AIRFLOW	OSA (CFM)	E.S.P.	TOTAL COOLING (BTUh)	SENSIBLE COOLING (BTUh)	TOTAL HEATING (BTUh)	MCA	MOCP	VOLTAGE	HZ	PHASE	SOUND (dBA)	MANUFACTURER	MODEL	REMARKS
FCU-1	SUPT OFFICE & ADMIN OFFICE	CONCEALED DUCTED	353	50	0.60 in-wg	11527.0 Btu/h	11527.0 Btu/h	12361.0 Btu/h	1	15	208 V	60 Hz	1	31	Mitsubishi Electric	PEFY-P15NMAU-E	1-11
FCU-2	CONFERENCE ROOM	CONCEALED DUCTED	512	115	0.60 in-wg	13832.0 Btu/h	13832.0 Btu/h	14542.0 Btu/h	3	15	208 V	60 Hz	1	33	Mitsubishi Electric	PEFY-P18NMAU-E	1-11
FCU-3	CHIEF RANGER & OFFICE	CONCEALED DUCTED	353	45	0.60 in-wg	11527.0 Btu/h	11527.0 Btu/h	12361.0 Btu/h	1	15	208 V	60 Hz	1	31	Mitsubishi Electric	PEFY-P15NMAU-E	1-11
FCU-4	STORAGE & HALL	CONCEALED DUCTED	318	85	0.60 in-wg	9222.0 Btu/h	8649.0 Btu/h	9816.0 Btu/h	2.13	15	208 V	60 Hz	1	30	Mitsubishi Electric	PEFY-P12NMAU-E	1-11
FCU-5	BREAK ROOM	CONCEALED DUCTED	618	140	0.60 in-wg	18443.0 Btu/h	18443.0 Btu/h	19632.0 Btu/h	2.88	15	208 V	60 Hz	1	31	Mitsubishi Electric	PEFY-P24NMAU-E	1-11

1. PROVIDE WITH 4" MERV 13 FILTERS.
2. PROVIDE WITH LINED RETURN DUCT. PROVIDE FILTER RACK WITH STANDARD SIZE 12x20x4 FILTERS (MULTIPLE MAY BE REQUIRED, SEE DETAIL).
3. PROVIDE WITH INTEGRAL CONDENSATE PUMP. ROUTE COPPER CONDENSATE PIPING TO FUNNEL DRAIN IN PLUMBING CHASE. PROVIDE FUNNEL DRAIN AS PART OF THIS PROJECT.
4. BALANCE OUTSIDE AIR DUCT TO CFM INDICATED IN SCHEDULE.
5. PROVIDE SUCTION LINE FILTER WITH BYPASS ON LARGEST CAPACITY FAN COIL. AFTER A WEEK OF USE CHECK FILTER. IF DIRTY REPLACE AND REPEAT. IF CLEAN REMOVE FILTER AND LEAVE IN BYPASS MODE.
6. PROVIDE SPRING HANGER AND VIBRATION ISOLATOR.
7. PROVIDE FACTORY AUTHORIZED STARTUP OF EQUIPMENT INCLUDING STARTUP OF ANY FACTORY CONTROLS TO ENSURE PROPER SEQUENCING AND/OR COMMUNICATION TO BMS. FAN COIL UNIT FANS TO RUN CONTINUOUSLY DURING OCCUPIED HOURS FOR VENTILATION NEEDS.
8. PROVIDE WITH SHOP PIPING AND WIRING DRAWINGS. ANY DEVIATIONS FROM SHOP DRAWING MUST BE DOCUMENTED AND PROVIDED TO ENGINEER.
9. PROVIDE 10 YEAR WARRANTY. MUST INCLUDE COPY OF FINALIZED WARRANTY TO ENGINEER AT PROJECT CLOSEOUT.
10. COORDINATE REFRIGERANT CHARGE AND PIPING SIZES WITH EQUIVALENT LINE LENGTH TO MINIMIZE PRESSURE DROP AND CAPACITY LOSS.
11. PRESSURE TEST ALL REFRIGERANT PIPING. PROVIDE REPORT OF PRESSURE TESTING TO ENGINEER. PRESSURE TEST MUST BE WITNESSED BY MANUFACTURER'S REP.

VRF - BRANCH SELECTOR SCHEDULE

LABEL	# OF BRANCHES (PORTS)	MCA	VOLTAGE	HZ	PHASE	OP. WEIGHT	MANUFACTURER	MODEL	REMARKS
BS-1	8	0.64	208 V	60 Hz	1	33.00 lbf	MITSUBISHI ELECTRIC	CMB-P108NU-JA1	1-3

1. PROVIDE WITH FULL PORT BALL VALVES ON EACH PORT CONNECTION.
2. PROVIDE WITH CONDENSATE PUMP.
3. ACCEPTABLE MANUFACTURERS: MITSUBISHI, LG, FUJITSU, DAIKIN OR PRIOR APPROVED EQUAL.

VRF - OUTDOOR UNIT SCHEDULE

LABEL	AREA SERVED	NOMINAL COOLING CAPACITY (BTUh)	REQUIRED COOLING CAPACITY (BTUh)	NOMINAL HEATING CAPACITY (BTUh)	REQUIRED HEATING CAPACITY (BTUh)	REFRIGERANT	EER	IEER	MCA	MOCP	VOLTAGE	HZ	PHASE	WEIGHT (LBS)	MANUFACTURER	MODEL	REMARKS
ODU-1	AREA B	72000.0 Btu/h	64551.0 Btu/h	80000.0 Btu/h	77257.0 Btu/h	R410	11.9	20.9	38	60	208 V	60 Hz	3	609	MITSUBISHI ELECTRIC	PURY-HP72TNU-A	1-11

1. PROVIDE WITH HAIL GUARDS.
2. PROVIDE WITH MIRO INDUSTRIES LD SUPPORT/MOUNTING FRAME OR CONCRETE PAD.
3. PROVIDE WITH NEOPRENE PADS AT ALL MOUNTING CONNECTION POINTS.
4. PROVIDE LIQUID LINE SPECIALTIES INCLUDING FILTER DRIER, SIGHT GLASS, TXV, SOLENOID VALVE, 24V 1ph CONTROL WIRE BY CONTROLS CONTRACTOR.
5. PROVIDE REFRIGERANT PIPING SIZED AS PER MANUFACTURER'S RECOMMENDATIONS. "ACR" COPPER ONLY.
6. COORDINATE REFRIGERANT CHARGE AND PIPING SIZES WITH EQUIVALENT LINE LENGTH TO MINIMIZE PRESSURE DROP AND CAPACITY LOSS.
7. PROVIDE BOOT AT ANY CONDENSER LINE PENETRATIONS INTO BUILDING ENVELOPE.
8. PROVIDE CRANKCASE HEATER.
9. PROVIDE WITH BASE PAN HEATER (THIS REQUIRES A SEPARATE POWER CONNECTION)
10. ACCEPTABLE MANUFACTURERS: MITSUBISHI, LG, FUJITSU, DIAIKIN OR PRIOR APPROVED EQUAL.
11. PROVIDE FACTORY AUTHORIZED STARTUP OF EQUIPMENT INCLUDING STARTUP OF ANY FACTORY CONTROLS TO ENSURE PROPER SEQUENCING AND/OR COMMUNICATION TO BMS.

MINI-SPLIT CONDENSING UNIT SCHEDULE

LABEL	SERVES	MAX COOLING CAPACITY (BTUH)	MAX AMBIENT TEMP	UNIT OPERATING WEIGHT (LBS)	SOUND RATING	COMPRESSORS			FAN FLA	MCA	VOLTAGE	PHASE	Hz	MOCP	EER	SEER	DISCONNECT		MANUFACTURER	MODEL	REMARKS
						NO.	RLA	LRA									FURN BY ELEC	FURN BY MECH			
MCU-1	AC-1	12000.0	95 °F	92	44 dBA	1	7	12	0.5	11	208	1	60	28	12	20.8	YES	NO	Mitsubishi Electric	PUY-A12NKA7	1-4

1. INDOOR UNIT POWERED FROM OUTDOOR UNIT.
2. ACCEPTABLE MANUFACTURERS: MITSUBISHI, LG, FUJITSU, DAIKIN OR PRIOR APPROVED EQUAL.
3. PROVIDE WITH WIND BAFFLE FOR COOLING AT -5 F.
4. PROVIDE FACTORY AUTHORIZED STARTUP OF EQUIPMENT INCLUDING STARTUP OF ANY FACTORY CONTROLS TO ENSURE PROPER SEQUENCING.

MINI-SPLIT FAN COIL UNIT SCHEDULE

LABEL	CFM	COOLING CAPACITY		WEIGHT (LBS)	SOUND RATING	WATTS	MCA	VOLTAGE	PHASE	Hz	DISCONNECT		MANUFACTURER	MODEL	REMARKS
		MINIMUM	MAXIMUM								FURN BY ELEC	FURN BY MECH			
AC-1	370	5800.0 Btu/h	12000.0 Btu/h	22	40 dBA	30	1.0	208	1	60	YES	NO	Mitsubishi Electric	PKA-A12HA7	1-4

1. PROVIDE WITH CONDENSATE PUMP.
2. INDOOR UNIT POWERED FROM OUTDOOR UNIT.
3. ACCEPTABLE MANUFACTURERS: MITSUBISHI, LG, FUJITSU, DAIKIN OR PRIOR APPROVED EQUAL.
4. PROVIDE FACTORY AUTHORIZED STARTUP OF EQUIPMENT INCLUDING STARTUP OF ANY FACTORY CONTROLS TO ENSURE PROPER SEQUENCING.

REGISTER - GRILLE- DIFFUSER SCHEDULE

LABEL	COUNT	TYPE	BLOW PATTERN	MAX AIR FLOW (CFM)	FACE SIZE	MAX NC	PRESSURE DROP (in-wg)	THROW	MANUFACTURER	MODEL	REMARKS
RG-1	1	RETURN GRILLE - SIDEWALL	N/A	1000	20X16	30	0.100	N/A	PRICE	535	1-4
RG-2	8	RETURN GRILLE - CEILING	N/A	800	24X12	30	0.050	N/A	PRICE	535	1-4
RG-3	1	RETURN GRILLE - SIDEWALL	N/A	1600	28X20	30	0.100	N/A	PRICE	535	1-4
SD-1	11	SUPPLY DIFFUSER - SIDEWALL	ADJUSTABLE - ADJUST VANES TO 22.5°	360	12X6	30	0.100	14-18-26	TRUAIRE	220VO	1-5
SD-2	5	SUPPLY DIFFUSER - HARD LID	ADJUSTABLE - ADJUST VANES TO 45°	320	16X8	30	0.050	7-10-16	TRUAIRE	220VO	1-5
SD-3	3	SUPPLY DIFFUSER - HARD LID	ADJUSTABLE - ADJUST VANES TO 45°	300	16X8	30	0.050	6-9-15	TRUAIRE	210VO	1-5
SD-4	2	SUPPLY DIFFUSER - SIDEWALL	ADJUSTABLE - ADJUST VANES TO 22.5°	400	12X8	30	0.100	14-20-28	TRUAIRE	220VO	1-5
SD-5	1	SUPPLY DIFFUSER	ADJUSTABLE - ADJUST VANES TO 45°	100	10X4	30	0.050	6-9-14	TRUAIRE	210VO	1-5
SD-6	9	SUPPLY DIFFUSER - CEILING	4-WAY	320	24X24	30	0.200	14-17-24	PRICE	SMD	1-4

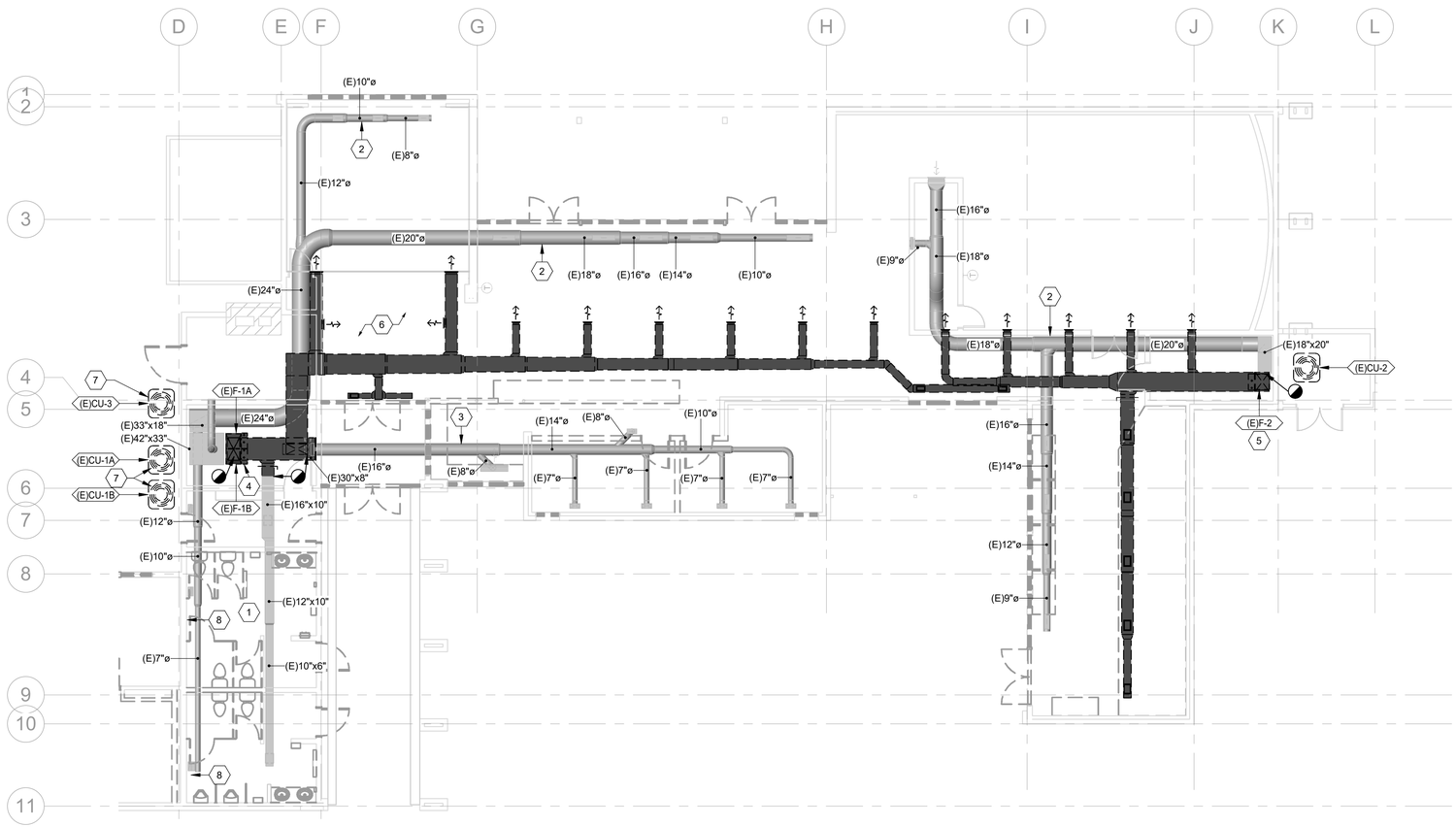
1. PROVIDE TRANSITION AS NECESSARY.
2. COLOR BY ARCHITECT.
3. PROVIDE WITH WITH LAY-IN TO HARD LID ADAPTER AS NECESSARY.
4. ACCEPTABLE MANUFACTURERS: HART & COOLEY, TUTTLE & BAILEY, TRUAIRE, PRICE, TITUS OR PRIOR APPROVED EQUAL.
5. REGISTER HAS INTEGRAL OPPOSED BLADE DAMPER.

PROFESSIONAL ENGINEER
2-8-23
RYAN BOOGAARD
NO. 8677128
STATE OF UTAH

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	RHB DRAWN: RHB TECH. REVIEW: SSJ DATE: 12/09/2022	ME1.5	MECHANICAL SCHEDULES GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 / 175345 PMIS/PKG NO. 308441 SHEET 70 OF 113

SHEET KEYNOTES

1. EXISTING OVERHEAD SUPPLY DUCTING TO RESTROOMS AND JANITOR ROOM TO REMAIN.
2. EXISTING UNDERGROUND RETURN DUCTWORK IN THIS AREA TO REMAIN. REPLACE EXISTING FLOOR RETURN GRILLES WITH NEW GRILLES.
3. EXISTING UNDERGROUND SUPPLY DUCTING TO PARK STORE TO REMAIN.
4. REMOVE EXISTING TWINNED FURNACE AND ASSOCIATED CONDENSING UNITS (TWO 4 TON SYSTEMS). DEMOLISH ASSOCIATED SUPPLY DUCTWORK UNLESS OTHERWISE NOTED.
5. REMOVE EXISTING FURNACE AND ASSOCIATED CONDENSING UNIT. DEMOLISH ASSOCIATED SUPPLY DUCTWORK UNLESS OTHERWISE NOTED.
6. REMOVE ALL ABANDONED BOILER HEAT PIPING THROUGHOUT BUILDING WHERE POSSIBLE.
7. DEMOLISH EXISTING CONDENSING UNIT ASSOCIATED WITH EXISTING AREA B FURNACE.
8. REMOVE EXISTING WALL HEATER AND ALL ASSOCIATED WIRING, PIPING, ETC. IN RESTROOM.

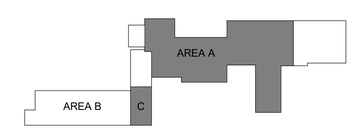


1 MD1.1 MECHANICAL DEMOLITION PLAN – AREA A

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

4 0 4 8 12

SCALE OF FEET



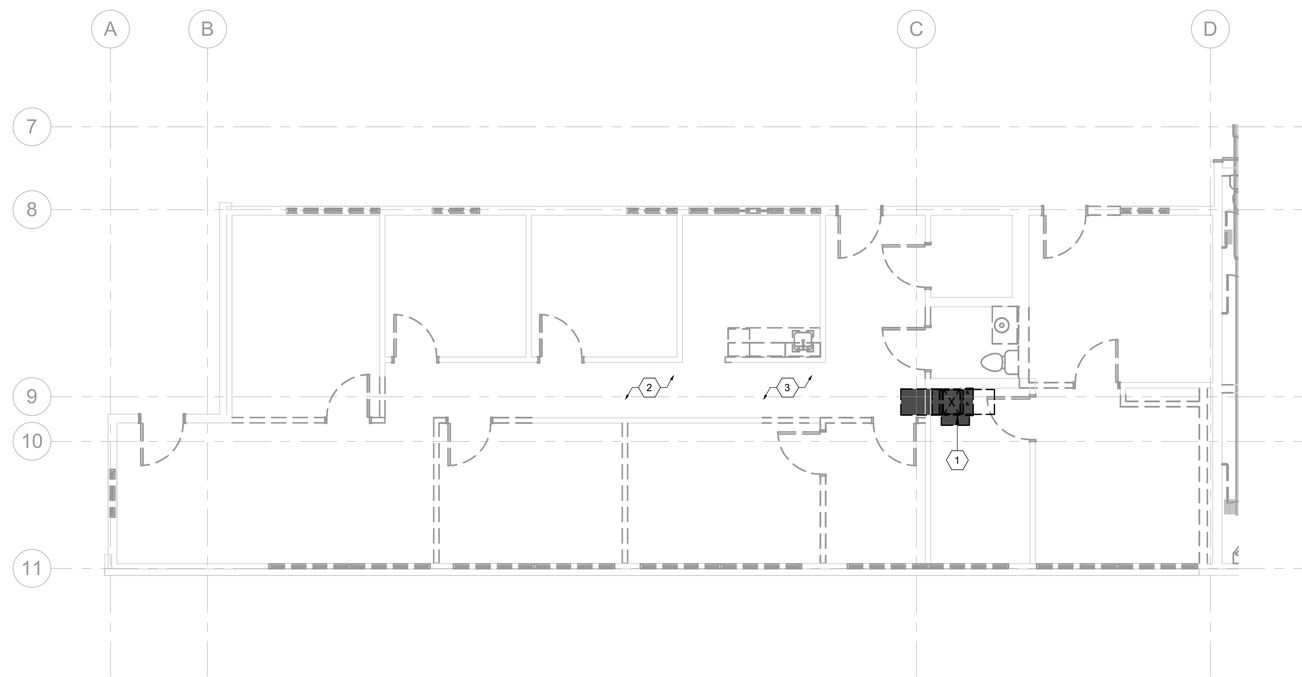
KEYPLAN

PROFESSIONAL ENGINEER 2-8-23 RYAN BOOGAARD NO. 8677128 STATE OF UTAH

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	RHB CADD RHB TECH. REVIEW: SSJ DATE: 12/09/2022	MD1.1	MECHANICAL DEMO PLAN - AREA A GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 71 OF 113

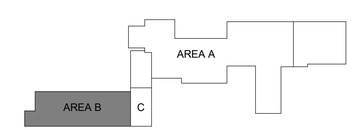
SHEET KEYNOTES

1. REMOVE EXISTING FURNACE AND PROVIDE NEW FURNACE WITH STAINLESS STEEL HEAT EXCHANGER FOR USE AS DEDICATED OUTSIDE AIR SYSTEM. FURNACE FLUE AND COMBUSTION AIR TO TERMINATE STRAIGHT UP THROUGH ROOF.
2. REMOVE ALL EXISTING DUCTING IN THIS AREA.
3. REMOVE ALL ABANDONED BOILER HEAT PIPING THROUGHOUT BUILDING WHERE POSSIBLE.



1 MD1.2 MECHANICAL DEMO PLAN – AREA B ADD ALTERNATE
SCALE: 3/16" = 1'-0"

4 0 4 8 12
SCALE OF FEET



KEYPLAN

PROFESSIONAL ENGINEER
2-8-23
RYAN
BOOGAARD
NO. 8677128
STATE OF UTAH

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	RHB CADD RHB TECH. REVIEW: SSJ DATE: 12/09/2022	MD1.2	MECHANICAL DEMO PLAN - AREA B ADD ALTERNATE GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 72 OF 113

GENERAL SHEET NOTES

1. THIS CONTRACTOR SHALL CLOSELY COORDINATE MECHANICAL AND PLUMBING WITH ELECTRICAL, ARCHITECTURAL, AND BUILDING STRUCTURE.
2. ALL SUPPLY AND RETURN DUCTWORK TO BE EXTERNALLY WRAPPED WITH INSULATION WITH AN R-VALUE OF R-6.
3. ALL DUCT DIMENSIONS ARE INSIDE CLEAR DIMENSIONS.
4. FLEXIBLE DUCT MAY BE USED AT FINAL TERMINATION OF DUCT TO DIFFUSER OR GRILLE. MAXIMUM FLEXIBLE DUCT LENGTH IS 5'-0". PROVIDE DUCT SUPPORTS EVERY 3 FEET. FLEX DUCT SHALL NOT BE COMPRESSED OR KINKED BY ANY OBJECTS SUCH AS STRUCTURE, PIPING, ETC.
5. GRILLES AND DUCTWORK ARE SIZED INDEPENDENTLY. THE NECK SIZE OF GRILLES MAY NOT MATCH THE ASSOCIATED DUCT SIZE. PROVIDE TRANSITION TO GRILLES AS NECESSARY.
6. PROVIDE BALANCING DAMPER WITH LOCKING QUADRANT IN EACH DUCT BRANCH OF SUPPLY AND EXHAUST DUCTWORK.
7. PROVIDE REMOTE CABLE OPERATED DAMPERS FOR ALL DUCTWORK ABOVE HARD LID CEILINGS OR WHERE DAMPER IS INACCESSIBLE OR PROVIDE OPPOSED BLADE DAMPER WITH NYLON BUSHINGS AT GRILLE.
8. PROVIDE ACCESS DOORS FOR ALL SERVICEABLE EQUIPMENT OR VALVES ABOVE HARD LID CEILINGS OR IN WALLS. ALL ACCESS PANELS ARE TO BE PAINTED TO MATCH ADJACENT SURFACES.
9. GC TO HIRE NEBB OR AABC CERTIFIED THIRD PARTY TEST AND BALANCE (TAB) CONTRACTOR. TAB CONTRACTOR SHALL ADJUST SHEAVES, BELTS, DAMPERS, ETC AS NECESSARY TO BALANCE SYSTEM TO AIRFLOWS REQUIRED AT LOWEST POSSIBLE SPEEDS. TAB CONTRACTOR SHALL VERIFY THE OUTSIDE AIR AT EACH RTU IS AS SCHEDULED. FOLLOW PROCEDURES AS LAID FORTH IN THE CURRENT VERSION OF "PROCEDURAL STANDARDS FOR TESTING ADJUSTING AND BALANCING OF ENVIRONMENTAL SYSTEMS" BY NEBB. PROVIDE REPORT ON NEBB FORMS TO ENGINEER FOR REVIEW.

GENERAL SHEET NOTES

10. COORDINATE EXACT THERMOSTAT LOCATIONS WITH FURNITURE AND OWNER. FAILURE TO DO SO MAY REQUIRE MOVING THERMOSTATS AT CONTRACTORS COST.
11. CONTRACTOR SHALL FIELD VERIFY EXISTING FIELD CONDITIONS PRIOR TO ORDERING OR FABRICATING. ADDITIONAL COST WILL NOT BE ALLOWED FOR CONTRACTOR'S FAILURE TO BECOME FAMILIAR WITH EXISTING SITE CONDITIONS.
12. INSULATE ALL REFRIGERANT PIPING BY FULLY ENCLOSING PIPING IN INSULATION AND PROVIDING SEALED VAPOR BARRIER. ALL REFRIGERANT PIPING 2" OR SMALLER SHALL BE INSULATED WITH CLOSED-CELL ELASTOMER RUBBER INSULATION WITH A FLAME/SMOKE SPREAD INDEX BETTER THAN 25/50. ANY INSULATION EXPOSED TO THE ELEMENTS OR SUNLIGHT SHALL BE UV RESISTANT. INSULATION IS SUBJECT TO INSPECTION BY COMMISSIONING AGENT AND OR ENGINEER FOR COMPLIANCE.
13. PROVIDE FACTORY AUTHORIZED STARTUP OF ALL EQUIPMENT INCLUDING STARTUP OF ANY FACTORY CONTROLS TO ENSURE PROPER SEQUENCING.
14. GENERAL CONTRACTOR SHALL HIRE A 3RD PARTY COMMISSIONING AGENT TO COMMISSION NEW HVAC EQUIPMENT. COMMISSIONING AGENT SHALL BE LICENSED MECHANICAL ENGINEER. COMMISSIONING AGENT TO PROVIDE COMMISSIONING PLAN LISTING EQUIPMENT AND TEST TO BE PERFORMED TO ENGINEER FOR REVIEW. COMMISSIONING AGENT SHALL PROVIDE REPORT STATING ANY SYSTEM DEFICIENCIES AND LISTING ANY DEFERRED TESTS.
15. PIPING AND DUCTWORK SHALL NOT BE SUPPORTED FROM THE ROOF DECK, JOIST BRIDGING OR OTHER PIPES. HANG PIPES FROM BEAMS, JOIST OR SUPPLEMENTARY STRUCTURAL MEMBERS. WHERE POSSIBLE INSTALL ALL PIPING AND DUCTWORK WITHIN 12" FROM SUPPORTING STRUCTURE.
16. PROVIDE PROTECTIVE SHIELD PLATES AT THE TOP PLATES AND BOTTOM PLATES, EXTENDING AT LEAST 2" BELOW THE TOP PLATE AND 2" ABOVE THE BOTTOM PLATE FOR ANY DUCT WORK, OR PIPING WITHIN 1-1/4" FROM THE FACE OF THE STUD.

SHEET KEYNOTES

1 EXISTING LOW SIDE WALL RETURN TO REMAIN.

2 EXISTING UNDERGROUND SUPPLY DUCTWORK IN THIS AREA TO REMAIN. REPLACE EXISTING FLOOR SUPPLY DIFFUSERS WITH NEW DIFFUSERS.

3 EXISTING UNDERGROUND RETURN DUCTWORK IN THIS AREA TO REMAIN. REPLACE EXISTING FLOOR RETURN GRILLES WITH NEW GRILLES.

4 EXISTING SUPPLY DIFFUSERS AND EXHAUST GRILLES IN RESTROOM TO BE REPLACED WITH NEW.

5 RECONNECT TO EXISTING SUPPLY DUCT AND DIFFUSER IN CHANGING ROOM.

6 CONNECT NEW MAIN SUPPLY DUCT FROM FURNACE F-4 TO EXISTING 30"X8" SUPPLY DUCT THAT GOES UNDERGROUND TO PARK STORE AREA.

7 REUSE EXISTING SUPPLY DIFFUSERS IN MUSEUM AREA IF POSSIBLE. OTHERWISE REPLACE WITH NEW AS SHOWN.

8 PROVIDE NEW MIRO INDUSTRIES CONDENSING UNIT SUPPORT BASE PER DETAIL ON SHEET ME1.4.

9 INSTALL UV LIGHT (ERUV14-24V OR SIMILAR) IN MAIN SUPPLY AIR DUCT JUST DOWNSTREAM OF AC COIL ON TOP OF FURNACE.

10 MATCH THE NEW DIFFUSER FINISH TO THE WOOD SLAT FINISH. COORDINATE WITH ARCHITECT.

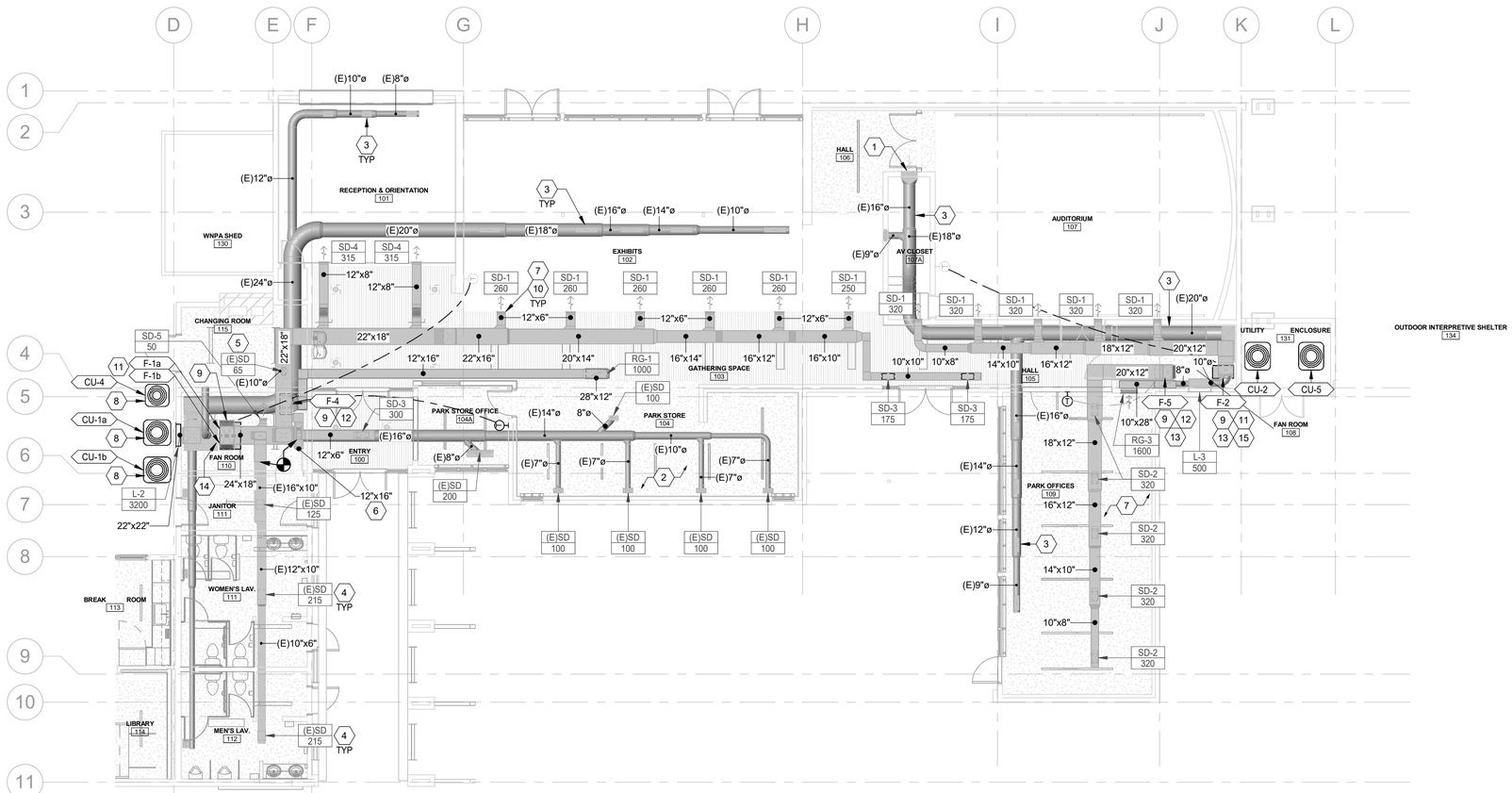
11 NEW 4" FLUE AND COMBUSTION AIR PIPING TO FOLLOWING EXISTING PATH.

12 PROVIDE NEW 4" FLUE AND COMBUSTION AIR PIPING UP THROUGH ROOF. PROVIDE WITH CONCENTRIC VENT KIT. SEAL ROOF PENETRATION WATERTIGHT.

13 ROUTE CONDENSATE OUT TO FRENCH DRAIN IN UTILITY ENCLOSURE. FIELD VERIFY EXISTING VOLUME AND CAPACITY OF FRENCH DRAIN. MINIMUM VOLUME OF 5 GALLONS REQUIRED.

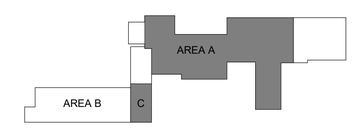
14 PROVIDE/INSTALL NEW FILTER RACKS AND CONNECT TO EXISTING UNDERGROUND RETURN AIR DUCT. PROVIDE NEW ECONOMIZER (HONEYWELL JADE W7220 CONTROLLER AND MICROMETL THE CUBE MIXING BOX) WITH OUTSIDE AIR LOUVER.

15 PROVIDE/INSTALL NEW FILTER RACK AND CONNECT TO EXISTING UNDERGROUND RETURN AIR DUCT.



1 MECHANICAL PLAN – AREA A
MH1.1 SCALE: 1/8" = 1'-0"

4 0 4 8 12
SCALE OF FEET



KEYPLAN

PROFESSIONAL ENGINEER 2-8-23 RYAN BOGGAARD NO. 8677128 STATE OF UTAH

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	RHB DRAWN: RHB TECH. REVIEW: SSJ DATE: 12/09/2022	MH1.1	MECHANICAL PLAN - AREA A GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 73 OF 113

Indoor Units:	5 / 1 to 18	
Capacity:	84 / 36 to 108	(116.7%)
* Connectable capacity is not actual capacity.		
Total Pipe Length:	220.7 / 1784.5	feet
Furthest Actual:	90.0 / 541.0	feet
Furthest Equiv.:	99.2 / 623.0	feet
Furthest IU from BC Actual:	50.0 / 197.0	feet
Furthest IU from BC Equiv.:	54.6 / 197.0	feet
Furthest IU from BC Thru Sub BC Actual:	0.0 / 0.0	feet
Furthest IU from BC Thru Sub BC Equiv.:	0.0 / 0.0	feet

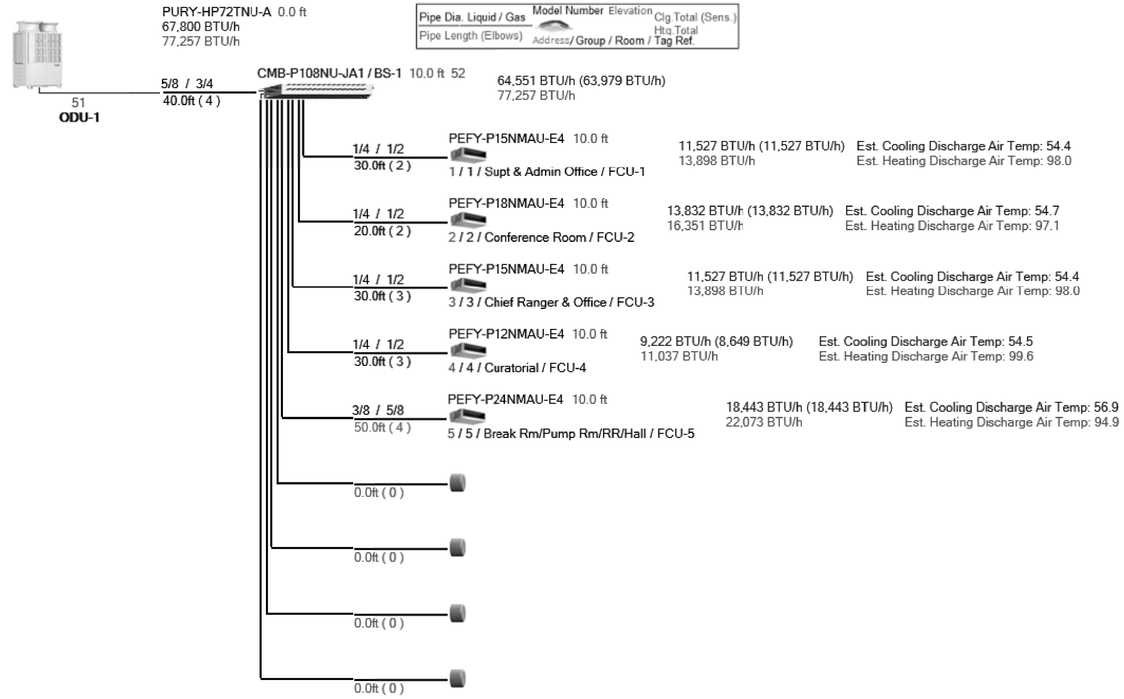
Correction Factors

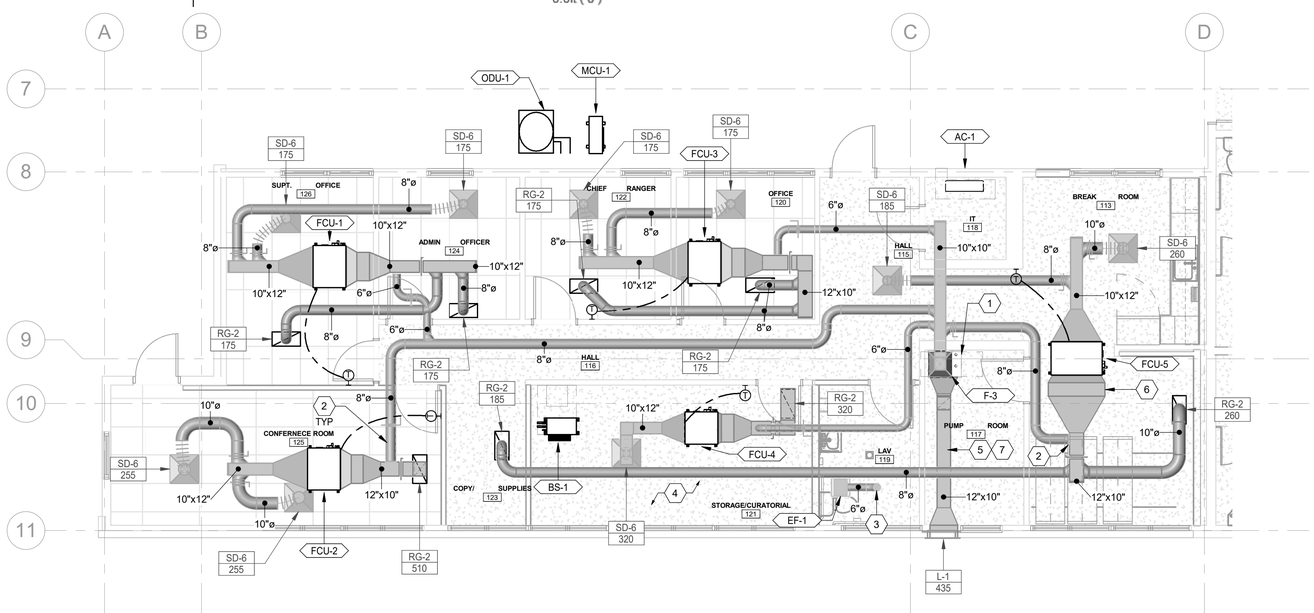
Outdoor Unit Capacity:	1.03	1.01
Temperature:	1.00	1.07
Piping Length:	0.95	0.99
Defrosting:	-	0.95
User Derate:	0.96	0.96
Total Derate:	0.94	0.97
Additional Refrigerant:	23.35 lb	
Total Refrigerant Amount:	40.98 lb	

Conditions (°F)

Cooling
Indoor DB 78.0 Humidity 40.0% Indoor WB 61.9
Outdoor DB 95.0

Heating
Indoor DB 70.0
Outdoor DB 3.0 Humidity 40.0% Outdoor WB 1.1





Sequence of Operations

- Furnace/DOAS "F-6"
  When ambient air temp is below 70°F, furnace F-6 to supply 70°F (adjustable) air continuously throughout business hours (adj.). When ambient air temp is 70°F or above, heating section of furnace to turn off, fan to remain on. During non-business hours, furnace/fan is off.
- VRF System
  This system is to run any time the space is occupied. During the hours of 7am to 7pm (adj.) the fan coil units fan shall not drop below a minimum speed. The unit shall automatically switch from heating or cooling depending on set point and room temperature. The unit shall modulate its linear expansion valve to maintain room set point. The thermostat shall allow for user input to adjust set point. The maximum deadband is +/- 2.5°F.

1 / MH1.2 MECHANICAL PLAN – AREA B ADD ALTERNATE
SCALE: 3/16" = 1'-0"

GENERAL SHEET NOTES

1. THIS CONTRACTOR SHALL CLOSELY COORDINATE MECHANICAL AND PLUMBING WITH ELECTRICAL, ARCHITECTURAL, AND BUILDING STRUCTURE.
2. ALL SUPPLY AND RETURN DUCTWORK TO BE EXTERNALLY WRAPPED WITH INSULATION WITH AN R-VALUE OF R-6.
3. ALL DUCT DIMENSIONS ARE INSIDE CLEAR DIMENSIONS.
4. FLEXIBLE DUCT MAY BE USED AT FINAL TERMINATION OF DUCT TO DIFFUSER OR GRILLE. MAXIMUM FLEXIBLE DUCT LENGTH IS 5'-0". PROVIDE DUCT SUPPORTS EVERY 3 FEET. FLEX DUCT SHALL NOT BE COMPRESSED OR KINKED BY ANY OBJECTS SUCH AS STRUCTURE, PIPING, ETC.
5. GRILLES AND DUCTWORK ARE SIZED INDEPENDENTLY. THE NECK SIZE OF GRILLES MAY NOT MATCH THE ASSOCIATED DUCT SIZE. PROVIDE TRANSITION TO GRILLES AS NECESSARY.
6. PROVIDE BALANCING DAMPER WITH LOCKING QUADRANT IN EACH DUCT BRANCH OF SUPPLY AND EXHAUST DUCTWORK.
7. PROVIDE REMOTE CABLE OPERATED DAMPERS FOR ALL DUCTWORK ABOVE HARD LID CEILINGS OR WHERE DAMPER IS INACCESSIBLE OR PROVIDE OPPOSED BLADE DAMPER WITH NYLON BUSHINGS AT GRILLE.
8. PROVIDE ACCESS DOORS FOR ALL SERVICEABLE EQUIPMENT OR VALVES ABOVE HARD LID CEILINGS OR IN WALLS. ALL ACCESS PANELS ARE TO BE PAINTED TO MATCH ADJACENT SURFACES.
9. GC TO HIRE NEBB OR AABC CERTIFIED THIRD PARTY TEST AND BALANCE (TAB) CONTRACTOR. TAB CONTRACTOR SHALL ADJUST SHEAVES, BELTS, DAMPERS, ETC AS NECESSARY TO BALANCE SYSTEM TO AIRFLOWS REQUIRED AT LOWEST POSSIBLE SPEEDS. TAB CONTRACTOR SHALL VERIFY THE OUTSIDE AIR AT EACH RTU IS AS SCHEDULED. FOLLOW PROCEDURES AS LAID FORTH IN THE CURRENT VERSION OF "PROCEDURAL STANDARDS FOR TESTING ADJUSTING AND BALANCING OF ENVIRONMENTAL SYSTEMS" BY NEBB. PROVIDE REPORT ON NEBB FORMS TO ENGINEER FOR REVIEW.
10. COORDINATE EXACT THERMOSTAT LOCATIONS WITH FURNITURE AND OWNER. FAILURE TO DO SO MAY REQUIRE MOVING THERMOSTATS AT CONTRACTORS COST.
11. CONTRACTOR SHALL FIELD VERIFY EXISTING FIELD CONDITIONS PRIOR TO ORDERING OR FABRICATING. ADDITIONAL COST WILL NOT BE ALLOWED FOR CONTRACTOR'S FAILURE TO BECOME FAMILIAR WITH EXISTING SITE CONDITIONS.
12. INSULATE ALL REFRIGERANT PIPING BY FULLY ENCLOSING PIPING IN INSULATION AND PROVIDING SEALED VAPOR BARRIER. ALL REFRIGERANT PIPING 2" OR SMALLER SHALL BE INSULATED WITH CLOSED-CELL ELASTOMER RUBBER INSULATION WITH A FLAME/SMOKE SPREAD INDEX BETTER THAN 25/50. ANY INSULATION EXPOSED TO THE ELEMENTS OR SUNLIGHT SHALL BE UV RESISTANT. INSULATION IS SUBJECT TO INSPECTION BY COMMISSIONING AGENT AND OR ENGINEER FOR COMPLIANCE.
13. PROVIDE FACTORY AUTHORIZED STARTUP OF ALL EQUIPMENT INCLUDING STARTUP OF ANY FACTORY CONTROLS TO ENSURE PROPER SEQUENCING.
14. GENERAL CONTRACTOR SHALL HIRE A 3RD PARTY COMMISSIONING AGENT TO COMMISSION NEW HVAC EQUIPMENT. COMMISSIONING AGENT SHALL BE LICENSED MECHANICAL ENGINEER. COMMISSIONING AGENT TO PROVIDE COMMISSIONING PLAN LISTING EQUIPMENT AND TEST TO BE PERFORMED TO ENGINEER FOR REVIEW. COMMISSIONING AGENT SHALL PROVIDE REPORT STATING ANY SYSTEM DEFICIENCIES AND LISTING ANY DEFERRED TESTS.
15. PIPING AND DUCTWORK SHALL NOT BE SUPPORTED FROM THE ROOF DECK, JOIST BRIDGING OR OTHER PIPES. HANG PIPES FROM BEAMS, JOIST OR SUPPLEMENTARY STRUCTURAL MEMBERS. WHERE POSSIBLE INSTALL ALL PIPING AND DUCTWORK WITHIN 12" FROM SUPPORTING STRUCTURE.
16. PROVIDE PROTECTIVE SHIELD PLATES AT THE TOP PLATES AND BOTTOM PLATES, EXTENDING AT LEAST 2" BELOW THE TOP PLATE AND 2" ABOVE THE BOTTOM PLATE FOR ANY DUCT WORK, OR PIPING WITHIN 1-1/4" FROM THE FACE OF THE STUD.

SHEET KEYNOTES

1 REMOVE EXISTING FURNACE AND PROVIDE NEW FURNACE WITH STAINLESS STEEL HEAT EXCHANGER FOR USE AS DEDICATED OUTSIDE AIR SYSTEM. FURNACE FLUE AND COMBUSTION AIR TO TERMINATE STRAIGHT UP THROUGH ROOF.

2 ADJUST OUTSIDE AIRFLOW TO EACH FAN COIL PER SCHEDULE.

3 EXHAUST DUCT UP THROUGH ROOF. TERMINATE WITH WEATHERPROOF EXHAUST CAP.

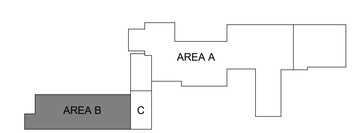
4 INSTALL BUG RESISTANT SCREENS ON DIFFUSER/GRILLE NECKS IN THIS ROOM.

5 INSTALL T–STAT IN OUTSIDE AIR DUCT AND SET TO 70°F. SET FAN TO BE "ON" DURING BUSINESS HOURS.

6 PROVIDE SERVICEABLE ACCESS POINTS FOR ALL FAN COIL FILTER RACKS.

7 INSTALL UV LIGHT (ERUV14–24V OR SIMILAR) IN MAIN RETURN AIR DUCT JUST PRIOR TO FURNACE CONNECTION.

4 0 4 8 12
SCALE OF FEET



KEYPLAN

PROFESSIONAL ENGINEER 2-8-23 RYAN BOOGAARD NO. 8677128 STATE OF UTAH

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	RHB CADD RHB TECH. REVIEW: SSJ DATE: 12/09/2022	MH1.2	MECHANICAL PLAN - AREA B ADD ALTERNATE GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 74 OF 113

SYMBOL LEGEND - MISC

REFERENCE LINES AND SYMBOLS

SYMBOL	DESCRIPTION
- / ---	VIEW OR DETAIL INDICATOR: # INDICATES DETAIL NUMBER, SHEET INDICATES DRAWING SHEET WHERE VIEW OR DETAIL IS SHOWN.
- / ---	ELEVATION OR SECTION INDICATOR: # INDICATES VIEW NUMBER, SHEET INDICATES DRAWING SHEET WHERE VIEW IS SHOWN.
NAME 101	ROOM / SPACE INDICATOR
#	KEYNOTE INDICATOR
#	REVISION INDICATOR
XX-##	PLUMBING FIXTURE INDICATOR
XX-##	EQUIPMENT INDICATOR
TAG CFM	REGISTER, GRILLE, OR DIFFUSER INDICATOR
OR	BREAKLINE
MATCH LINE SEE XX/XXX	MATCHLINE INDICATOR
	CONTRACT LIMIT LINE: DASHDOT, WIDE LINE
	NEW CONNECTION TO EXISTING
	POINT OF DEMOLITION

SYMBOL LEGEND - PIPING

NOTE: ALL ABBREVIATIONS MAY NOT BE USED.

SYMBOL	DESCRIPTION
	HOSE BIBB / WALL HYDRANT
	CLEANOUT TO GRADE
	FLOOR CLEANOUT
	WALL CLEANOUT
	FLOOR DRAIN
	FLOOR SINK

DEFINITIONS

NOTE: ALL DEFINITIONS MAY NOT BE USED.

INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED.

DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.

APPROVED: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.

FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."

INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."

PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."

INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE OPERATIONS THEY ARE ENGAGED TO PERFORM.

PIPING LEGEND

NOTE: ALL ABBREVIATIONS MAY NOT BE USED.

ABBREVIATION	DESCRIPTION
160	160°F HOT WATER
160R	160°F HOT WATER RETURN / CIRCULATION
180	180°F HOT WATER
180R	180°F HOT WATER RETURN / CIRCULATION
AW	ACID WASTE
AV	ACID VENT
C02	CARBON DIOXIDE
CWV	COMBINATION WASTE AND VENT
CA	COMPRESSED AIR
CD	CONDENSATE DRAIN
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RECIRCULATION
DI	DEIONIZED WATER
DSW	DOMESTIC SOFT WATER
	DEMOLISHED PIPING
FP	FIRE PROTECTION
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOV	FUEL OIL VENT
GW	GREASE WASTE
HPC	HIGH PRESSURE CONDENSATE
MPC	MEDIUM PRESSURE CONDENSATE
LPC	LOW PRESSURE CONDENSATE
ICW	INDUSTRIAL COLD WATER
IHW	INDUSTRIAL HOT WATER
IW	IRRIGATION WATER
LPG	LIQUID PROPANE GAS
MA	MEDICAL AIR
NG	NATURAL GAS
NO	NITROUS OXIDE
O	OXYGEN
PC	PUMPED CONDENSATE
RW	RAINWATER / STORM DRAIN
SRW	SECONDARY RAINWATER / STORM DRAIN
SS	SANITARY SEWER
VAC	VACUUM
V	VENT

SYMBOL LEGEND - PIPING

NOTE: ALL ABBREVIATIONS MAY NOT BE USED.

SYMBOL	DESCRIPTION
	SHUT OFF VALVE
	GATE VALVE
	CHECK VALVE
	AUTOMATIC 2-WAY VALVE
	AUTOMATIC 3-WAY VALVE
	GLOBE VALVE
	BALL VALVE
	RELIEF VALVE
	PRESSURE REDUCING VALVE
	BUTTERFLY VALVE
S	SOLENOID VALVE
	ANGLE VALVE
	BALANCING OR PLUG COCK
	FLOW SETTER
	EXPANSION VALVE
	GAS COCK
	STRAINER
	GAUGE COCK
	FLEXIBLE CONNECTION
	PRESSURE GAUGE
	THERMOMETER
	PIPE REDUCER
	REFRIGERANT SITE GLASS
	REFRIGERANT FILTER DRIER
	90 DEGREE ELBOW UP
	90 DEGREE ELBOW DOWN
	90 DEGREE TEE UP
	90 DEGREE TEE DOWN
	PIPE UNION
	PIPE CAP
	FLOAT AND THERMOSTATIC TRAP

ABBREVIATIONS

NOTE: ALL ABBREVIATIONS MAY NOT BE USED.

(E)	EXISTING
(F)	FUTURE
AC	AIR CONDITION(-ING,-ED)
APD	AIR PRESSURE DROP
BD	BALANCING DAMPER
BHP	BRAKE HORSE POWER
BTU	BRITISH THERMAL UNIT
BTUH	BTU/HOUR
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CV	CONTROL VALVE
DB	DRY BULB TEMPERATURE
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RECIRC
EA	EXHAUST AIR
EER	ENERGY EFFICIENCY RATIO
EFF	EFFICIENCY
ELEC	ELECTRIC
ELEV	ELEVATION
ENT	ENTERING
EVAP	EVAPORAT(-E, -ING, -ED, -OR)
EWT	ENTERING WATER TEMPERATURE
EXT	EXTERNAL
FD	FIRE DAMPER
FLA	FULL LOAD AMPS
FPI	FINS PER INCH
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FSD	FIRE SMOKE DAMPER
GE	GREASE EXHAUST
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HD	HEAD
HG	MERCURY
HP	HORSEPOWER
HR	HOUR
HTG	HEATING
HZ	HERTZ (FREQUENCY)
IN	INCH
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LH	LATENT HEAT
LRA	LOCKED ROTOR AMPS
LVG	LEAVING
LWT	LEAVING WATER TEMPERATURE
MBH	THOUSAND BTU PER HOUR
MCA	MINIMUM CIRCUIT AMPS
MFR	MANUFACTUR(-ER, -ED)
NC	NORMALLY CLOSED OR NOISE CRITERIA
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NPSH	NET POSITIVE SUCTION HEAD
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OD	OUTSIDE DIAMETER
OZ	OUNCE
PD	PRESSURE DROP OR DIFFERENCE
PH	PHASE
PPM	PARTS PER MILLION
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIA	PSI ABSOLUTE
PSIG	PSI GAUGE
RA	RETURN AIR
RECIRC	RECIRCULATE (-ER, -ED, -ING)
REFR	REFRIGERATION
REQD	REQUIRED
RLA	RATED LOAD AMPS
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SCFM	STANDARD CUBIC FEET PER MINUTE
SCW	SOFT COLD WATER
SH	SENSIBLE HEAT
SP	STATIC PRESSURE
SPEC(S)	SPECIFICATION(S)
SQ	SQUARE
STD	STANDARD
SW	SOIL, WASTE
TA(R)	TRANSFER AIR (RETURN)
TA(S)	TRANSFER AIR (SUPPLY)
TEMP	TEMPERATURE
TOT	TOTAL
TSTAT	THERMOSTAT
V	VOLT, VOLTAGE OR VENT
VAC	VACUUM
VAV	VARIABLE AIR VOLUME
VEL	VELOCITY
VENT	VENT, VENTILATION
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VOL	VOLUME
VTR	VENT THROUGH ROOF
WB	WET BULB TEMP
WC	WATER COLUMN
WG	WATER GAUGE
WPD	WATER PRESSURE DROP

PLUMBING GENERAL NOTES

1. THE PLUMBING DRAWINGS SHOW THE GENERAL DESIGN, ARRANGEMENT AND EXTENT OF THE PLUMBING SYSTEM. BECAUSE OF THE SMALL SCALE OF THE DRAWINGS, THESE DRAWINGS DO NOT SHOW ALL OFFSETS, BENDS OR ELBOWS NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. CONTRACTOR SHALL MAKE SUCH SLIGHT ALTERATIONS AS MAY BE NECESSARY TO MAKE THE SYSTEM COMPLETE AND OPERATIONAL IN ACCORDANCE WITH THE DESIGN INTENT. MAJOR DEVIATIONS SUCH AS CHANGES IN COMPONENT SIZES, WEIGHTS, QUANTITIES OR MATERIAL REQUIRE PRIOR APPROVAL BY THE DESIGN ENGINEER.
2. THE DRAWINGS AND SPECIFICATIONS HAVE BEEN PREPARED TO SUPPLEMENT EACH OTHER AND SHALL BE INTERPRETED AS AN INTEGRAL UNIT WITH THE ITEMS SHOWN ON ONE AND NOT THE OTHER BEING FURNISHED AND INSTALLED AS THOUGH SHOWN AND CALLED OUT IN BOTH.
3. THE ENTIRE PLUMBING INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE MOST RECENTLY ADOPTED BUILDING CODES, MECHANICAL CODE, PLUMBING CODE, ELECTRICAL CODE, AND ALL OTHER APPLICABLE CITY, COUNTY, STATE, AND FEDERAL CODES AND REGULATIONS IN EFFECT.
4. THE ENTIRE PLUMBING INSTALLATION SHALL CONFORM TO ANY CODES, RULES, REGULATIONS AND REQUIREMENTS OF THE BUILDING OWNER.
5. PRIOR TO FABRICATION AND INSTALLATION OF ANY PLUMBING COMPONENT THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL PLUMBING WORK WITH ALL OTHER BUILDING TRADES, INCLUDING BUILDING TRADES HIRED DIRECTLY BY THE OWNER. WHERE CONFLICTS MAY OCCUR, THEY SHALL BE RESOLVED PRIOR TO INSTALLATION.
6. ALL PLUMBING INFORMATION IS NOT SHOWN ON THE PLUMBING DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL INFORMATION ON ALL OTHER CONSTRUCTION DOCUMENTS.
7. THE CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW AND USE, WHERE APPROPRIATE, ALL THE PLUMBING DETAILS SHOWN ON THE DRAWINGS. DETAILS MAY OR MAY NOT BE CALLED OUT ON THE DRAWINGS WITH SYMBOLS OR KEYED NOTES. ANY CHANGES RESULTING FROM FAILURE TO INSTALL THE PLUMBING SYSTEM WITHOUT USING THE INCLUDED DETAILS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
8. ANY PART OF THE PLUMBING INSTALLATION THAT FAILS, IS UNFIT, OR BECOMES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
9. PROVIDE PROPER PROVISIONS FOR EXPANSION, CONTRACTION, OR MOVEMENT OF ALL PIPING.
10. PROVIDE LARGE ENOUGH PIPE SLEEVES THROUGH WALL OR FLOOR TO ALLOW FOR ANTICIPATED DIFFERENTIAL MOVEMENT.
11. ALL PIPING SHALL BE SUPPORT WITH CLEVIS HANGERS (MSS TYPE 1). PERFORATED METAL STRAPS OR PLASTIC STRAPPING (PLUMBER TAPE) SHALL NOT BE USED TO SUPPORT OR BRACE ANY PIPE.
12. PROVIDE PIPE HANGERS WITHIN 18-INCHES OF ALL CHANGES OF DIRECTION.
13. PROVIDE SWAY BRACING FOR ALL PIPING 4" AND LARGER AT ALL CHANGES IN DIRECTION GREATER THAN 45-DEGREES.
14. ALL STEEL CLEVIS HANGERS USED TO SUPPORT COPPER PIPING SHALL BE COPPER OR PLASTIC COATED.
15. COPPER PIPING SHALL NOT COME IN CONTACT WITH FIRE TREATED LUMBER. PROVIDE ½" THICK SLIP-ON CLOSED CELL INSULATION WHERE COPPER PIPING IS ADJACENT TO FIRE TREATED LUMBER. CLOSED CELL INSULATION SHALL EXTEND A MINIMUM OF 1-1/2" PAST LUMBER.
16. ALL EXPOSED PIPING SHALL BE INSTALLED IN A NEATLY ARRANGED MANNER PARALLEL TO THE BUILDING STRUCTURE.
17. ALL EXPOSED DOMESTIC WATER PIPE IN OCCUPIED SPACES SHALL BE POLISHED CHROME PLATED.
18. ALL EXPOSED DRAINAGE PIPING IN OCCUPIED SPACES INCLUDING TRAPS UNDER SINKS SHALL BE POLISHED CHROME PLATED.
19. DRAWINGS SHOW GENERAL ARRANGEMENT OF THE DRAIN WASTE AND VENT SYSTEM WITH THE REQUIRED CLEANOUTS. CONTRACTOR SHALL PROVIDE ALL ADDITIONAL CLEANOUTS AS REQUIRED BY THE PLUMBING CODE.
20. ALL SANITARY DRAINAGE SYSTEM PIPING 3" AND LARGER SHALL BE SLOPED IN DIRECTION OF FLOW AT A MINIMUM OF 1/8" PER FOOT.
21. ALL SANITARY DRAINAGE SYSTEM PIPING SMALLER THAN 3" SHALL BE SLOPED IN DIRECTION OF FLOW AT A MINIMUM OF 1/4" PER FOOT.
22. SLOPE VENT SYSTEM TOWARDS DRAINAGE SYSTEM.
23. SIMILAR EQUIPMENT SHALL BE OF THE SAME MANUFACTURER.
24. ALL EQUIPMENT SHALL PROVIDE THE SCHEDULED PERFORMANCE AT THE JOB SITE ELEVATION.
25. FIXTURE AND EQUIPMENT MODEL NUMBERS SHOWN IN PLUMBING FIXTURE SCHEDULE AND PLUMBING EQUIPMENT SCHEDULE ARE SHOWN TO ESTABLISH THE TYPE OF PRODUCT THAT SHALL BE USED. THE SELECTED PRODUCT SHALL MEET THE SCHEDULED PERFORMANCE DATA SHOWN ON THE SCHEDULE EVEN IF A DIFFERENT MODEL IS SUPPLIED THAT IS DIFFERENT THAN THAT SCHEDULED.
26. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE ALL NECESSARY FITTINGS, TRANSITIONS, VALVES AND OTHER DEVICES AND ACCESSORIES REQUIRED FOR A COMPLETE, WORKABLE INSTALLATION.
27. SEE "PLUMBING FIXTURE SCHEDULE" FOR INDIVIDUAL TRAPS, WASTE, VENT, AND DOMESTIC WATER PIPING FOR INDIVIDUAL FIXTURES.
28. ALL PLUMBING EQUIPMENT SHALL BE LISTED AND LABELED BY AN APPROVED TESTING AGENCY.
29. FIXTURES, EQUIPMENT AND PIPING INSTALLATION SHALL MEET NSF STANDARDS.

PLUMBING SHEET INDEX

PE1.1	**PLUMBING COVER SHEET**
PE1.2	**PLUMBING SCHEDULES**
PE1.3	**PLUMBING DETAILS**
PL1.1	**PLUMBING PLAN - AREA A & AREA C**
PL1.2	**PLUMBING PLAN - AREA B**

PROFESSIONAL ENGINEER
2-8-23
RYAN BOOGAARD
NO. 8677128
STATE OF UTAH

A/E FIRM
AJC ARCHITECTS
SALT LAKE CITY, UT 84104

DESIGNED: RHB
CADD: RHB
TECH. REVIEW: SSJ
DATE: 12/09/2022

SUB SHEET NO. PE1.1

TITLE OF DRAWING
PLUMBING COVER SHEET
GOLDEN SPIKE NATIONAL HISTORICAL PARK

DRAWING NO. 431 175345
PMIS/PKG NO. 308441
SHEET 75 OF 113

PLUMBING FIXTURE SCHEDULE

REFER TO PLUMBING SPECIFICATIONS FOR COMPLETE FIXTURE COMPONENTS

LABEL	DESCRIPTION	WASTE	TRAP	VENT	CW	HW	MANUFACTURER	MODEL	REMARKS
(E)FD	FLOOR DRAIN	2"	2"	2"	0"	0"	FIXTURE: ZURN TRAP SEAL: RECTORSEAL	FIXTURE: Z415-BZ1 TRAP SEAL: SURESEAL	TRAP SEAL TO MATCH FD SIZE
CDR-1	CONDENSATE DRAIN RECEIVER	2"	2"	12 1/4"	0"	0"	IPS	DBSS2DLV	PROVIDE WITH DRAIN HOLE AND VENT HOLE
DF-1	DRINKING FOUNTAIN - HI-LOW WITH BOTTLE FILLER	1 1/2"	1 1/2"	1 1/4"	1/2"	0"	ELKAY	LZSTL8WSLP-LKAPREZL	ELECTRICAL DATA: 115/1, 4.2 FLA, 370 WATTS. PROVIDE WITH CANE APRON FOR ADA COMPLIANCE.
HB-1	HOSE BIB - EXTERIOR	0"	0	0"	3/4"	0"	WOODFORD	MODEL 17	FROST PROOF, WITH INTEGRAL VACUUM BREAKER, BRASS CONSTRUCTION
KS	SINGLE BOWL KITCHEN SINK	1 1/2"	1 1/2"	1 1/2"	1/2"	1/2"	FIXTURE: ELKAY FAUCET: ELKAY DISPOSER: INSINKERATOR TMV: BRADLEY	FIXTURE: HD335692 FAUCET: LKHA1041LS DISPOSER: BADGER 5 TMV: S59-4016 SERIES	DISPOSER ELECTRICAL: 1/2 HP, 1725 RPM, 6.3A, 120/1
LAV	COUNTERTOP LAVATORY	1 1/4"	1 1/4"	1 1/2"	1/2"	1/2"	FIXTURE: KOHLER FAUCET: AMERICAN STANDARD INSULATION: TRUEBRO TMV: WEBSTONE	FIXTURE: K-2209-0 FAUCET: 5502.170-V05 INSULATION: LAVGUARD 2 TMV: H-77211W-TG	SET TMV AT 110 DEG. F.
LAV-A	WALL-MOUNT LAVATORY (ACCESSIBLE)	1 1/4"	1 1/4"	1 1/2"	1/2"	1/2"	FIXTURE: AMERICAN STANDARD FAUCET: SLOAN INSULATION: TRUEBRO TMV: WEBSTONE	FIXTURE: 0355.012.020 FAUCET: EBF-650 INSULATION: LAV GAURD 2 TMV: H-77211W-TG	SET TMV AT 110 DEG. F.
UR	URINAL	2"	INT.	2"	1"	0"	FIXTURE: KOHLER FLUSH VALVE: ZURN	FIXTURE: K-5452-ET FLUSH VALVE: ZER6003AV-CP	BATTERY-POWERED FLUSH VALVE LOW FLOW (0.125 GPF)
UR-A	URINAL (ACCESSIBLE)	2"	INT.	2"	1"	0"	FIXTURE: KOHLER FLUSH VALVE: ZURN	FIXTURE: K-5452-ET FLUSH VALVE: ZER6003AV-CP LOW FLOW (0.125 GPF)	MOUNT AT ADA HEIGHT BATTERY-POWERED FLUSH VALVE
WC	FLOOR MOUNT FLUSH VALVE WATER CLOSET	3"	INT.	2"	1 1/2"	0"	FIXTURE: KOHLER FLUSH VAVLE: ZURN SEAT: BEMIS	FIXTURE: K-96053-SSL FLUSH VALVE: ZER6000-CP-WS1 SEAT: 1955CTJ	BATTERY-POWERED FLUSH VALVE LOW FLOW (1.28 GPF)
WC-A	FLOOR MOUNT FLUSH VALVE WATER CLOSET (ACCESSIBLE)	3"	INT.	2"	1 1/2"	0"	FIXTURE: KOHLER FLUSH VAVLE: ZURN SEAT: BEMIS	FIXTURE: K-96057-SSL FLUSH VALVE: ZER6000-CP-WS1 SEAT: 1955CTJ	BATTERY-POWERED FLUSH VALVE LOW FLOW (1.28 GPF)
WC-A	FLOOR MOUNT TANK WATER CLOSET (ACCESSIBLE)	3"	INT.	2"	3/4"	0"	FIXTURE: KOHLER SEAT: BEMIS	FIXTURE: K-3519 SEAT: 1955CTJ	ADA HEIGHT BATTERY-POWERED FLUSH VALVE LOW FLOW (1.0 GPF)

MINIMUM PIPE INSULATION THICKNESS FOR WATER AND REFRIGERANT SYSTEMS

FLUID OPERATING TEMP RANGE (F)	INSULATION CONDUCTIVITY		INSULATION THICKNESS (INCHES) BASED ON NOMINAL PIPE SIZE				
	CONDUCTIVITY BTU*IN/(H*FT^2*°F)	MEAN RATING TEMPERATURE, °F	LESS THAN 1" Ø	1" to 1-1/2" Ø	1-1/2" to 4" Ø	4" to 8" Ø	8" Ø AND ABOVE
>350	0.32-0.34	250	4.5	5.0	5.0	5.0	5.0
251-350	0.29-0.32	200	3.0	4.0	4.5	4.5	4.5
201-250	0.27-0.30	150	2.5	2.5	2.5	3.0	3.0
141-200	0.25-0.29	125	1.5	1.5	2.0	2.0	2.0
105-140	0.21-0.28	100	1.0	1.0	1.5	1.5	1.5
40-60	0.21-0.27	75	0.5	0.5	1.0	1.0	1.0
<40	0.20-0.26	50	0.5	1.0	1.0	1.0	1.5

WATER HAMMER ARRESTER SCHEDULE

SYMBOL	INLET SIZE (INCHES)	PDI SYMBOL	CAPACITY (DFU)	BASIS OF DESIGN MANUFACTURER & MODEL
WHA-A	3/4	A	1-11	J.R. SMITH 5005
WHA-B	1	B	12-32	J.R. SMITH 5010
WHA-C	1	C	33-60	J.R. SMITH 5020
WHA-D	1	D	61-113	J.R. SMITH 5030
WHA-E	1	E	114-154	J.R. SMITH 5040
WHA-F	1	F	155-330	J.R. SMITH 5050

ACCEPTABLE MANUFACTURERS	NOTES / REMARKS
SIOUX CHIEF "HYDRA-ARRESTER" MIFAB "MWH" J.R. SMITH "50XX" WATTS LF02	(1) ANSI / ASSE 1010 LISTED (2) LEAD FREE CONSTRUCTION (3) COPPER TUBE BODY; POLY PISTON, EPDM O-RING (4) MIP THREADED INLET

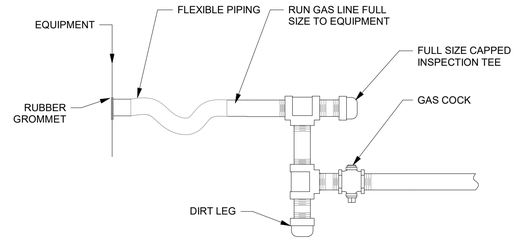
NOTE:
WATER HAMMER ARRESTOR SHALL BE SIZED AND INSTALLED PER PLUMBING AND DRAINAGE INSTITUTE (STANDARD PDI-WH 201) REQUIREMENTS IN ACCESSIBLE LOCATIONS ON THE COLD WATER AND HOT WATER PIPING AND WHERE FLUSH VALVES AND ANY OTHER QUICK CLOSING VALVES ARE USED.

VALVE SCHEDULE

SERVICE	VALVE TYPE	PIPE SIZE	DESCRIPTION
DOMESTIC WATER SERVICE	BALL VALVE	2" & SMALLER	COPPER ALLOY, 2-PIECE, STANDARD PORT, CHROME PLATED BALL, TFE SEAT, LEVER HANDLE, 400 PSIG WOG, MSS SP-110, THREADED END
	CHECK VALVE	2" & SMALLER	BRONZE BODY, SPRING TYPE, TFE SEAT, BRONZE DISC, THREADED ENDS, MSS SP-80
	UNION	2" & SMALLER	ASTM B16.39, CLASS 150, BRONZE OR BRASS, HEXANGONAL STOCK BODY, BRONZE-TO-BRONZE SEAT
NATURAL GAS	BALL VALVE	2" & SMALLER	COPPER ALLOY, 2-PIECE, STANDARD PORT, CHROME PLATED BALL, TFE SEAT, LEVER HANDLE, 400 PSIG WOG, MSS SP-110, AGA APPROVED, ASME B26.33, THREADED END
	UNION	2" & SMALLER	ASTM B16.39, CLASS 150, MALLEABLE IRON, HEXANGONAL STOCK BODY, BRONZE-TO-BRONZE SEAT

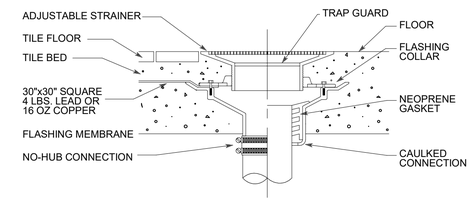
PROFESSIONAL ENGINEER
2-8-23
RYAN
BOOGAARD
NO. 8677128
STATE OF UTAH

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	RHB DRAWN: RHB TECH. REVIEW: SSJ DATE: 12/09/2022	PE1.2	PLUMBING SCHEDULES GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 76 OF 113



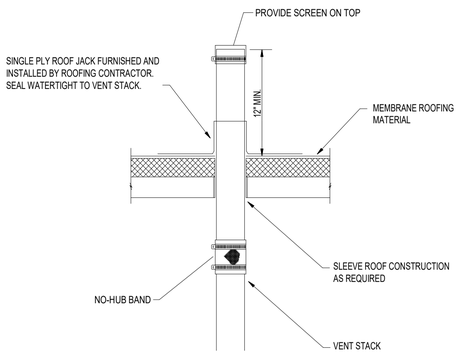
6 GAS PIPE DETAIL

SCALE: NTS



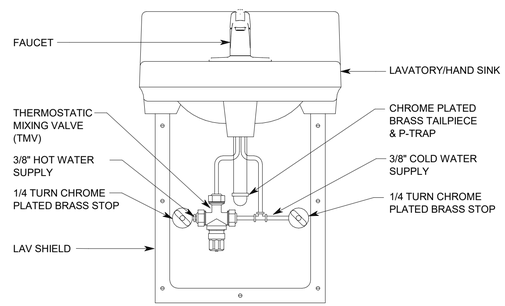
3 FLOOR DRAIN

SCALE: NTS



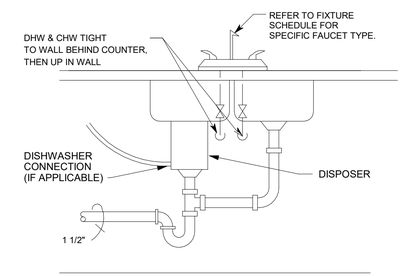
8 VENT THROUGH ROOF DETAIL

SCALE: NTS



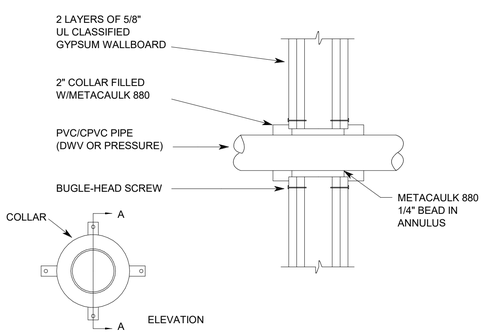
5 HAND SINK W/MIXING VALVE

SCALE: NTS



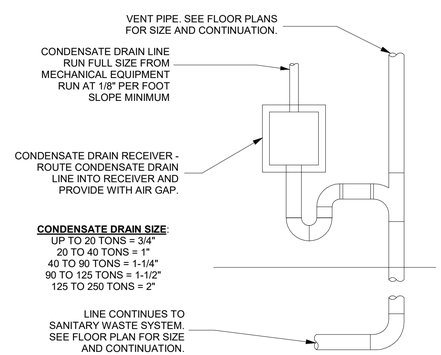
2 BREAK SINK CONNECTION DETAIL

SCALE: NTS



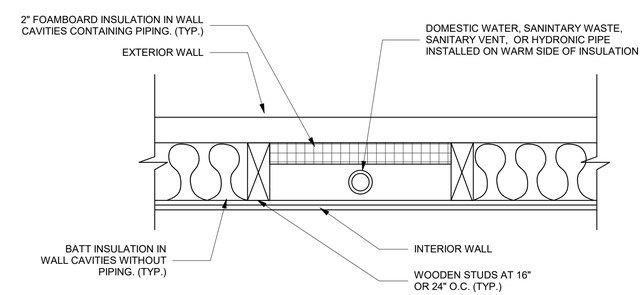
7 PIPE WALL SLEEVE

SCALE: NTS



4 WALL CONDENSATE DRAIN RECEIVER

SCALE: NTS



1 PIPING IN EXTERIOR WALL DETAIL

SCALE: NTS

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AJC ARCHITECTS SALT LAKE CITY, UT 84104	RHB DRAWN: RHB TECH. REVIEW: SSJ DATE: 12/09/2022	PE1.3	PLUMBING DETAILS GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 77 OF 113

SHEET KEYNOTES

1 EXISTING UNDERGROUND SEWER LINE SHOWN FOR REFERENCE ONLY. FIELD VERIFY EXACT SIZE, ROUTING AND DIRECTION OF FLOW PRIOR TO ANY WORK BEING DONE.

2 EXISTING 40 GALLON, 36 MBH GAS WATER HEATER TO REMAIN FOR DOMESTIC HOT WATER.

3 PLUMBING CONTRACTOR TO COMPLETELY REMOVE ALL OBSOLETE PLUMBING IN THE ATTIC SPACES AND IF ENCOUNTERED IN WALL SPACES OPENED UP FOR OTHER PURPOSES.

4 INSTALL NEW FLOOR CLEAN-OUT ON MAIN SEWER LINE BETWEEN THE EXISTING WASHER DRAIN AND FLOOR DRAIN IN THE CHANGING ROOM. FIELD VERIFY EXACT LOCATION AND SIZE OF UNDERGROUND SEWER PIPING.

SHEET KEYNOTES

5 REPLACE ALL EXISTING PLUMBING FIXTURES IN PUBLIC RESTROOM WITH NEW FIXTURES AS SPECIFIED.

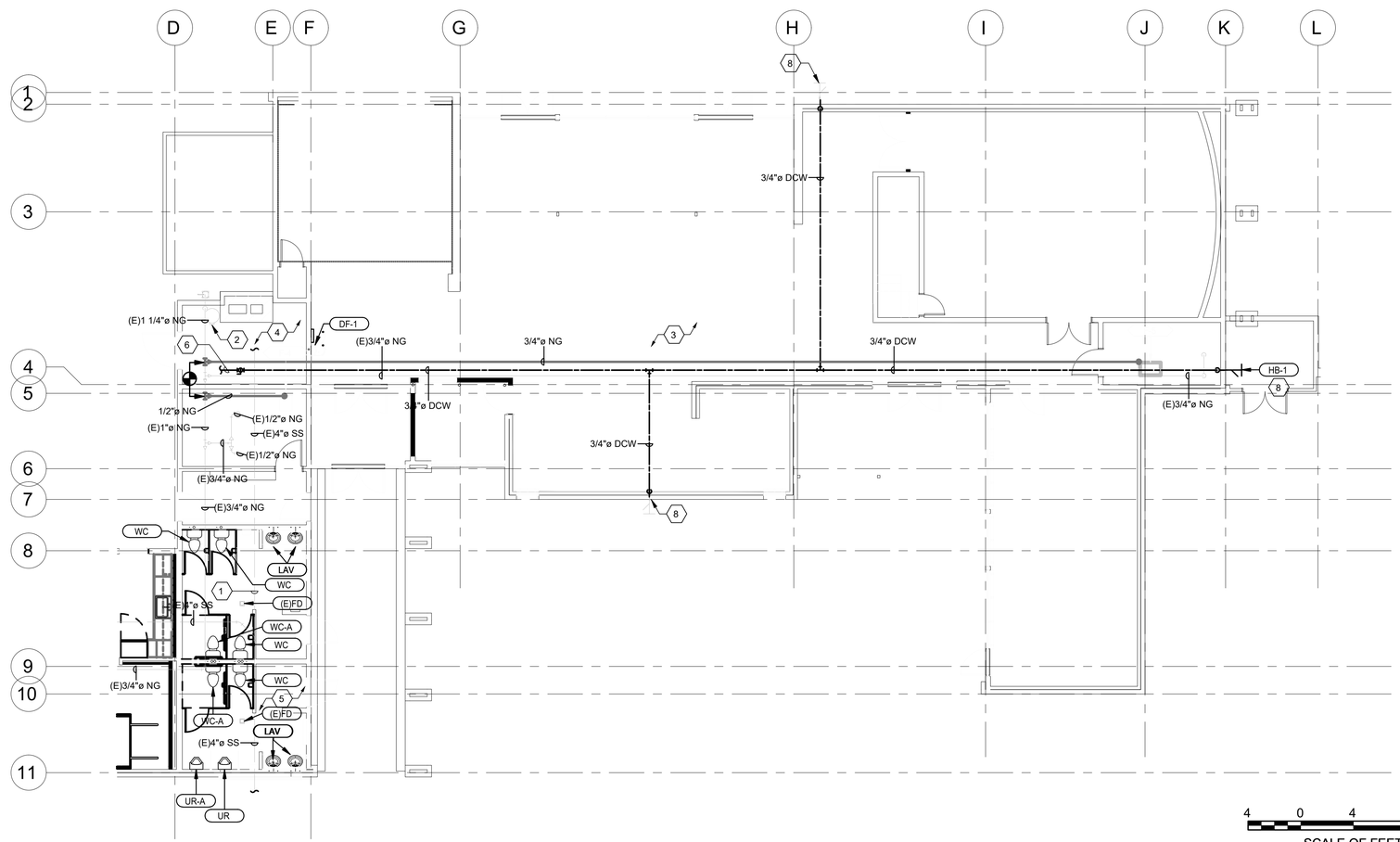
6 CONNECT NEW DOMESTIC WATER PIPING TO EXISTING 1" DCW PIPE OVERHEAD IN CHANGING ROOM. PROVIDE/INSTALL SHUTOFF VALVE AND AIR COMPRESSOR BLOW-OUT CONNECTION FOR WINTERIZING THIS BRANCH.

7 N/A

8 PROVIDE/INSTALL NEW HOSE BIB AT OUTSIDE UTILITY ENCLOSURE. COORDINATE THE EXACT LOCATION WITH THE CONTRACTING OFFICER PRIOR TO INSTALLATION

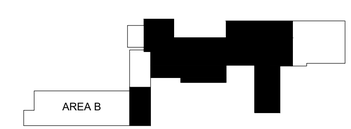
GENERAL SHEET NOTES

1. ALL DOMESTIC WATER PIPING TO BE COPPER. ALL HOT WATER AND HOT WATER RECIRCULATING PIPING TO BE INSULATED WITH 1" UP TO 1-1/4" PIPE AND 1-1/2" INSULATION FOR PIPING 1-1/2" AND LARGER. DOMESTIC COLD WATER PIPING TO BE INSULATED WITH 1/2" UP TO 1-1/4" PIPING AND 1" INSULATION FOR PIPING 1-1/2" OR LARGER.
2. THE CONTRACTOR SHALL CLOSELY COORDINATE MECHANICAL AND PLUMBING WITH ELECTRICAL, ARCHITECTURAL, AND BUILDING STRUCTURE.
3. DISSIMILAR METAL PIPING CONNECTIONS SHALL HAVE DIELECTRIC ISOLATORS.
4. ALL DOMESTIC WATER PIPING TO BE PRESSURE TESTED, CLEANED, AND DISINFECTED. PRESSURE TEST: CAP AND SUBJECT PIPING TO STATIC WATER PRESSURE OF 120 PSIG FOR FOUR HOURS. LEAKS AND LOSS IN TEST PRESSURE CONSTITUTE DEFECTS THAT MUST BE REPAIRED. PROVIDE RESULTS IN WRITTEN REPORT TO ENGINEER UPON COMPLETION. CLEAN AND DISINFECT: FLUSH PIPING SYSTEM, FILL SYSTEM WITH WATER/CHLORINE SOLUTION WITH AT LEAST 50 PPM OF CHLORINE FOR 24 HOURS. THOROUGHLY FLUSH SYSTEM. SUBMIT WATER SAMPLES IN STERILE BOTTLES TO AUTHORITIES HAVING JURISDICTION. PROVIDE REPORT TO ENGINEER STATING PROCEDURE FOLLOWED AND SIGNATURES OF GC AND THAT OF PERSONS PERFORMING PROCEDURE.
5. BALL VALVES SHALL BE FULL PORT AND LEAD FREE. PROVIDE WITH HANDLE/STEM EXTENSIONS FOR PROPER FUNCTION WHEN FULLY INSULATED. EXTENSIONS TO BE SEALED AND VAPOR PROOF.
6. ALL DOMESTIC WATER PIPING TO BE LOCATED ON WARM SIDE OF BUILDING ENVELOPE. ALL ROOF DRAIN PIPING (PRIMARY AND SECONDARY) LOCATED IN BUILDING ENVELOPE, INCLUDING ROOF DRAIN BOWLS TO BE INSULATED.
7. WATER HAMMER ARRESTORS SHALL BE SIZED AND INSTALLED PER PLUMBING AND DRAINAGE INSTITUTE (STANDARD PDI-WH 201) REQUIREMENTS IN ACCESSIBLE LOCATIONS ON THE COLD WATER AND HOT WATER PIPING WHERE FLUSH VALVES OR QUICK CLOSING VALVES ARE USED.
8. ALL DOMESTIC WASTE AND VENT PIPING TO BE CAST IRON OR PVC INSULATED TO MEET FLAME SPREAD AND SMOKE DEVELOPED INDEX.
9. PROVIDE A MARINE TOPSIDE BLACK PAINT ON ALL NEW GAS PIPING.
10. THE CONTRACTOR SHALL FIELD VERIFY EXISTING FIELD CONDITIONS PRIOR TO ORDERING OR FABRICATING. ADDITIONAL COST WILL NOT BE ALLOWED FOR CONTRACTOR'S FAILURE TO BECOME FAMILIAR WITH EXISTING SITE CONDITIONS.
11. TEST WASTE AND VENT PIPING FOR LEAKAGE. AFTER PLUMBING FIXTURES HAVE BEEN SET AND TRAPS FILLED WITH WATER, TEST CONNECTIONS AND PROVE THEY ARE GASTIGHT AND WATERTIGHT. PLUG VENT-STACK OPENINGS ON ROOF AND BUILDING DRAINS WHERE THEY LEAVE BUILDING. FOR CAST IRON, INTRODUCE AIR INTO PIPING SYSTEM EQUAL TO PRESSURE OF 1-INCH WG. USE U-TUBE OR MANOMETER INSERTED IN TRAP OF WATER CLOSET TO MEASURE THIS PRESSURE. AIR PRESSURE MUST REMAIN CONSTANT WITHOUT INTRODUCING ADDITIONAL AIR THROUGHOUT PERIOD OF INSPECTION. FOR PLASTIC PIPING PERFORM WATER TEST WITH NO LESS THAN 10' OF HEAD OF WATER. INSPECT PLUMBING FIXTURE CONNECTIONS FOR GAS AND WATER LEAKS. REPAIR LEAKS AND DEFECTS WITH NEW MATERIALS AND RETEST PIPING, OR PORTION THEREOF, UNTIL SATISFACTORY RESULTS ARE OBTAINED. PREPARE REPORTS FOR TESTS AND REQUIRED CORRECTIVE ACTION.
12. COORDINATE ANY NECESSARY SAW CUTTING, BACKFILL, AND NEW CONCRETE WITH GENERAL.
13. PROVIDE A SAND BED WITH SIX (6") INCHES MINIMUM COVERAGE AROUND ALL BELOW GRADE PIPES. PROVIDE BACKFILL FREE OF BOULDERS LARGER THAN TWO (2") INCHES. COMPACT AND TEST ALL BACKFILL ACCORDING TO ASTM COMPACTION STANDARDS OR PROVIDE PEA GRAVEL BACKFILL. PROVIDE MINIMUM TRENCH WIDTH OF NOT LESS THAN 1.5 TIMES THE PIPE OUTSIDE DIAMETER PLUS 12 INCHES.
14. PIPING SHALL NOT BE SUPPORTED FROM THE ROOF DECK, JOIST BRIDGING OR OTHER PIPES. HANG PIPES FROM BEAMS, JOIST OR SUPPLEMENTARY STRUCTURAL MEMBERS. WHERE POSSIBLE INSTALL ALL PIPING WITHIN 12" FROM SUPPORTING STRUCTURE.
15. GAS PIPING OVER 1" DIAMETER TRADE SIZE THAT IS SUSPENDED MORE THAN 12" FROM SUPPORTING STRUCTURE REQUIRES SEISMIC RESTRAINT. CONTRACTOR SHALL BE RESPONSIBLE FOR SEISMICALLY RESTRAINING SUCH PIPES, AND SUBMIT AS A DEFERRED SUBMITTAL THE CALCULATIONS BY A LICENSED STRUCTURAL ENGINEER IN THE STATE WHICH WORK IS PERFORMED TO THE AUTHORITY HAVING JURISDICTION. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS AND PRODUCT DATA BASED ON THE NONSTRUCTURAL SEISMIC BRACING NOTES, DRAWINGS AND DETAILS PROVIDED IN THE CONTRACT DOCUMENTS FOR REVIEW BY ENGINEER.
16. ALL PIPING THROUGH A FOUNDATION WALL OR UNDER A FOOTING TO BE PROVIDED WITH PIPE SLEEVE 2 PIPE SIZES LARGER THAN PIPE PASSING THROUGH WALL OR UNDER FOOTING. SEAL WITH CAULK OR FOAM. PIPE SLEEVE UNDER FOOTING TO BE A MINIMUM OF 2" BELOW FOOTING. PIPE TO BE IRON AND EXTEND BEYOND THE WIDTH OF THE FOOTING AT A 45 DEGREE ON BOTH SIDES OF FOOTING.
17. PLUMBING PIPING SCHEDULE:
    1. DOMESTIC WATER ABOVE GRADE= TYPE L COPPER - SOLDERED
    2. DOMESTIC WATER BELOW GRADE= TYPE K COPPER - SOLDERED
    3. ROOF DRAIN, WASTE & VENT ABOVE GRADE = CAST IRON - HUBLESS COUPLINGS WITH HEAVY DUTY COUPLINGS
    4. ROOF DRAIN, WASTE & VENT BELOW GRADE = DWV SOLID CORE PVC - SOLVENT CEMENT
    5. PROPANE PIPING 2" AND SMALLER = SCHEDULE 40 BLACK STEEL PIPE - THREADED
    6. PROPANE PIPING BELOW GRADE = POLYETHYLENE PIPE - FUSION WELDED



1 PL1.1 PLUMBING PLAN – AREA A & AREA C
SCALE: 1/8" = 1'-0"

4 0 4 8 12
SCALE OF FEET



KEYPLAN

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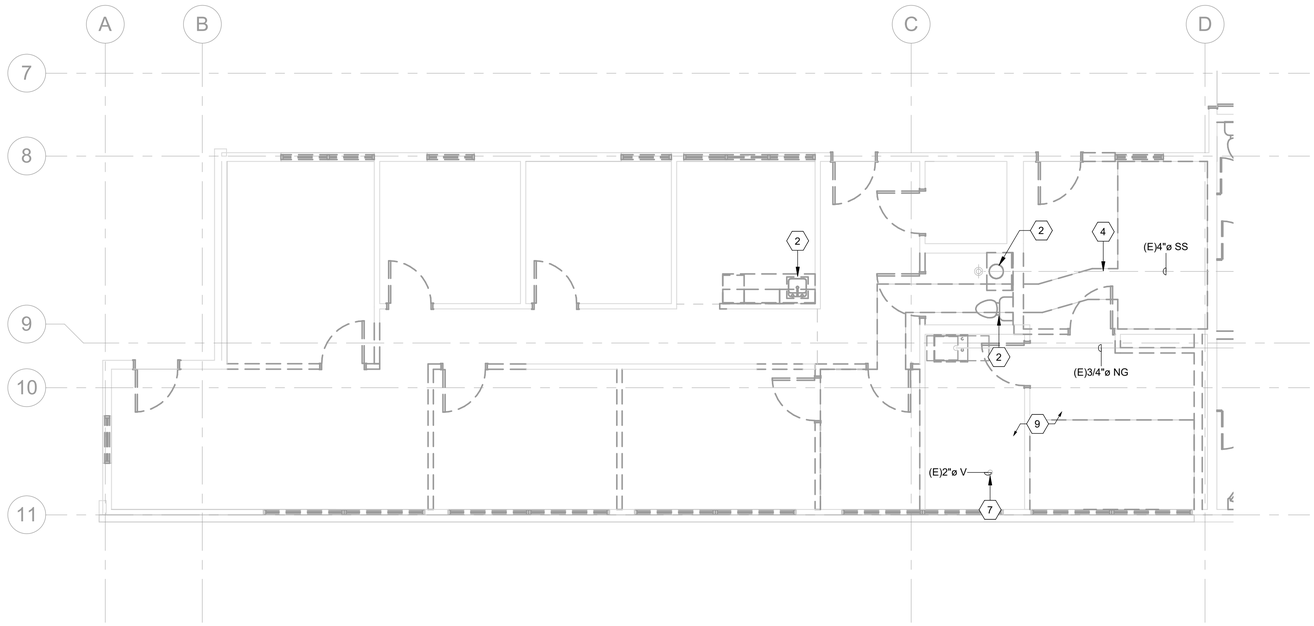
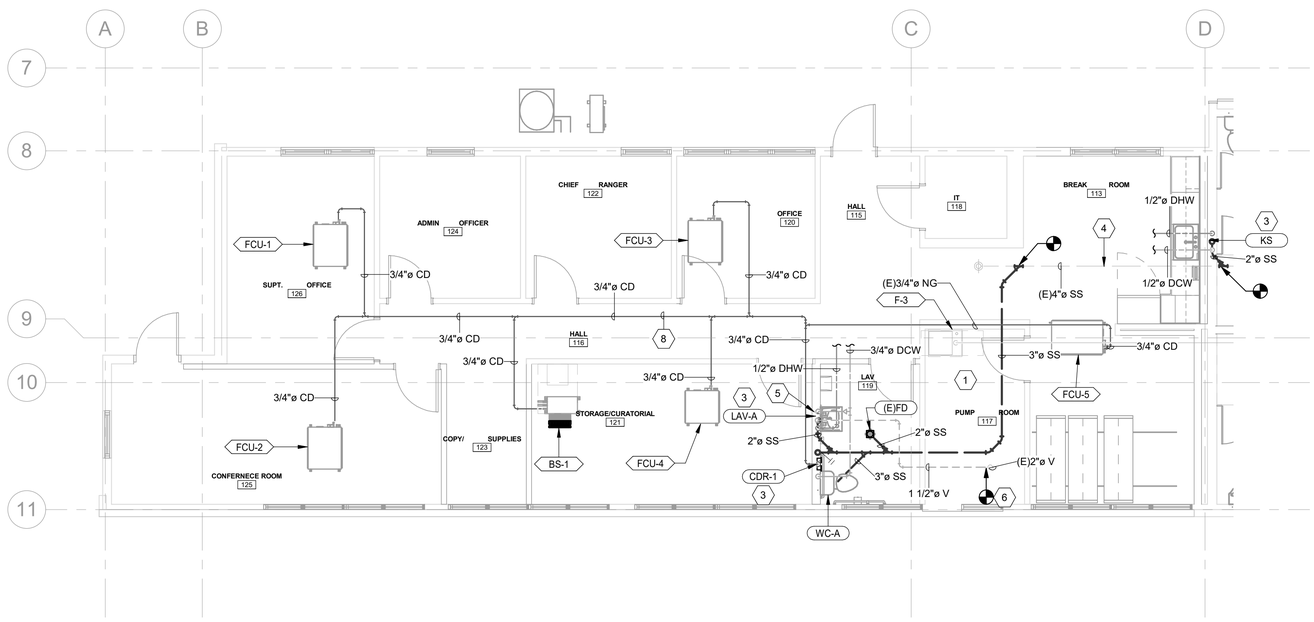


2 PL1.2 DEMO PLUMBING PLAN – AREA B ADD ALTERNATE

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



1 PL1.2 PLUMBING PLAN – AREA B ADD ALTERNATE

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

SHEET KEYNOTES

1 EXISTING DOMESTIC WATER PUMP EQUIPMENT TO REMAIN. ADD VIBRATION ISOLATION PADS TO EXISTING DOMESTIC WATER PUMPS.

2 REMOVE EXISTING PLUMBING FIXTURE AND ALL ASSOCIATED PIPING BACK TO MAIN.

3 EXTEND NEW WATER, WASTE AND VENT PIPING TO NEW PLUMBING FIXTURES FROM EXISTING NEARBY PLUMBING MAINS. TRACE EXISTING SEWER LINES TO DETERMINE SIZE AND ROUTING OF MAIN.

4 EXISTING UNDERGROUND SEWER LINE SHOWN FOR REFERENCE ONLY. FIELD VERIFY EXACT SIZE, ROUTING AND DIRECTION OF FLOW PRIOR TO ANY WORK BEING DONE.

5 BATHROOM GROUP TO BE VENTED THROUGH 1–1/2" VENT AT LAVATORY.

6 CONNECT NEW PLUMBING VENT TO EXISTING VENT THROUGH ROOF. VERIFY EXACT SIZE AND LOCATION.

7 EXISTING VENT THROUGH ROOF SHOWN FOR REFERENCE ONLY. FIELD VERIFY EXACT SIDE AND LOCATION OF EXISTING PLUMBING VENT.

8 COMBINE ALL FAN COIL UNIT CONDENSATE DRAINS ABOVE CEILING AND DRAIN TO LAVATORY TAIL PIECE WITH 1" AIR GAP. MAINTAIN MINIMUM 1.8" PER FT SLOPE.

9 PLUMBING CONTRACTOR TO COMPLETELY REMOVE ALL OBSOLETE PLUMBING IN THE ATTIC SPACES AND IF ENCOUNTERED IN WALL SPACES OPENED UP FOR OTHER PURPOSES.

GENERAL SHEET NOTES

1. ALL DOMESTIC WATER PIPING TO BE COPPER. ALL HOT WATER AND HOT WATER RECIRCULATING PIPING TO BE INSULATED WITH 1" UP TO 1-1/4" PIPE AND 1-1/2" INSULATION FOR PIPING 1-1/2" AND LARGER. DOMESTIC COLD WATER PIPING TO BE INSULATED WITH 1/2" UP TO 1-1/4" PIPING AND 1" INSULATION FOR PIPING 1-1/2" OR LARGER.
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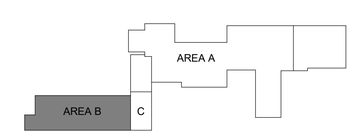
    3. ROOF DRAIN, WASTE & VENT ABOVE GRADE = CAST IRON - HUBLESS COUPLINGS WITH HEAVY DUTY COUPLINGS
    4. ROOF DRAIN, WASTE & VENT BELOW GRADE = DWV SOLID CORE PVC - SOLVENT CEMENT
    5. PROPANE PIPING 2" AND SMALLER = SCHEDULE 40 BLACK STEEL PIPE - THREADED
    6. PROPANE PIPING BELOW GRADE = POLYETHYLENE PIPE - FUSION WELDED

4 0 4 8 12

SCALE OF FEET



KEYPLAN

PROFESSIONAL ENGINEER
2-8-23
RYAN BOOGAARD
NO. 8677128
STATE OF UTAH

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SYMBOLS LEGEND

SYMBOL	DESCRIPTION
REFERENCE AND LINE SYMBOLS	
A5 / E-501	DETAIL INDICATOR: A5 INDICATES DETAIL NUMBER, E-501 INDICATES DRAWING SHEET WHERE DETAIL IS SHOWN.
ROOM NAME 100	ROOM IDENTIFIER WITH ROOM NAME AND NUMBER.
1	KEYNOTE INDICATOR.
1	REVISION INDICATOR.
	NEW LINE: MEDIUM LINE.
	EXISTING TO REMAIN LINE: THIN LINE.
	DEMOLITION LINE: DASKED, MEDIUM LINE.
X-X XMDP	MECHANICAL EQUIPMENT INDICATOR. "X-X" INDICATES EQUIPMENT MARK SHOWN ON EQUIPMENT SCHEDULE. "XMDP" IDENTIFIES PANEL EQUIPMENT IS CIRCUITED TO. REFER TO EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
WIRING METHODS	
	WIRING.
A-1,3,5	BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS. USE # 12 CONDUCTORS, EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES EXCEED THOSE SPECIFIED IN THE ELECTRICAL SPECIFICATIONS.
	CONDUIT STUB. DIMENSION RECORD DRAWINGS AND MARK.
J	JUNCTION BOX.
	EARTH GROUND (ONE-LINE DIAGRAM).
	MECHANICAL EQUIPMENT CONNECTION. REFER TO EQUIPMENT SCHEDULE FOR REQUIREMENTS.
WIRING DEVICES	
	RECEPTACLE, DUPLEX: NEMA 5-20R.
A	RECEPTACLE, DUPLEX, ABOVE COUNTER: NEMA 5-20R.
C	RECEPTACLE, DUPLEX, CEILING: NEMA 5-20R.
DF	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, DRINKING FOUNTAIN: CONCEAL WATER COOLER RECEPTACLE BEHIND WATER COOLER. SEE MECHANICAL/PLUMBING SHOP DRAWINGS FOR INSTALLATION REQUIREMENTS.
	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER: NEMA 5-20R.
WP	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, WEATHERPROOF: NEMA 5-20R.
FB#	FLUSH FLOOR BOX. "#" SHOWN ON DRAWINGS. REFER TO WIRING DEVICE SCHEDULE IN THE ELECTRICAL SPECIFICATIONS FOR CONFIGURATION AND DEVICES.
D	SWITCH, DIMMER.
$X	SWITCH, SINGLE POLE ("x" INDICATES FIXTURES CONTROLLED).
X $3	SWITCH, THREE-WAY ("x" INDICATES FIXTURES CONTROLLED).

ABBREVIATIONS

NOTE: ALL ABBREVIATIONS MAY NOT BE USED.

1P	SINGLE POLE
1PH	SINGLE-PHASE
1WAY	ONE-WAY
2/C	TWO-CONDUCTOR
2WAY	TWO-WAY
3/C	THREE-CONDUCTOR
3WAY	THREE-WAY
4OUT	QUADRUPLE RECEPTACLE OUTLET
4PDT	FOUR-POLE DOUBLE THROW
4PST	FOUR-POLE SINGLE THROW
4W	FOUR-WIRE
4WAY	FOUR-WAY
A	ABOVE COUNTER
AC	ARMORED CABLE
ADA	AMERICANS WITH DISABILITIES ACT
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CAPACITY
ALUM	ALUMINUM
AMP	AMPERE
ANN	ANNUNCIATOR
AP	ACCESS POINT (WIRELESS DATA)
AR	AS REQUIRED
ASC	AMPS SHORT CIRCUIT
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIO VISUAL
AWG	AMERICAN WIRE GAGE
BB	BUCK-BOOST
XFMR	TRANSFORMER
C	CEILING MOUNTED
CATV	COMMUNITY ANTENNA TELEVISION
CB	CIRCUIT BREAKER
CCBA	CUSTOM COLOR AS SELECTED BY ARCHITECT
CCTV	CLOSED CIRCUIT TELEVISION
CF/CI	CONTRACTOR FURNISHED/ CONTRACTOR INSTALLED
CF/OI	CONTRACTOR FURNISHED/ OWNER INSTALLED
CFBA	CUSTOM FINISH AS SELECTED BY ARCHITECT
CKT	CIRCUIT
CM	CONSTRUCTION MANAGER
CND	CONDUIT
CO	CONVENIENCE OUTLET
COR	CONTRACTING OFFICER'S REPRESENTATIVE
CP	CONTROL PANEL
CT	CURRENT TRANSFORMER
CTV	CABLE TELEVISION
CU	COPPER
dBA	UNIT OF SOUND LEVEL
DPDT	DOUBLE POLE, DOUBLE THROW
DS	DISCONNECT SWITCH
EA	EACH
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ENT	ELECTRIC NONMETALLIC TUBING
EPO	EMERGENCY POWER OFF
EQUIP	EQUIPMENT
EX	EXISTING
F	FURNITURE MOUNTED
FA	FIRE ALARM
FCP	FIRE ALARM CONTROL PANEL
FLA	FULL LOAD AMPS
FMC	FLEXIBLE METAL CONDUIT
FOB	FREIGHT ON BOARD
FVNR	FULL VOLTAGE NON-REVERSING
FVR	FULL VOLTAGE REVERSING
GEN	GENERATOR
GFCI	GROUND FAULT INTERRUPTER
GFP	GROUND FAULT PROTECTION
GND	GROUND
HD	HEAVY DUTY
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTOMATIC
HP	HORSE POWER
HPF	HIGH POWER FACTOR
HPS	HIGH PRESSURE SODIUM
HV	HIGH VOLTAGE
HZ	HERTZ
I/O	INPUT/ OUTPUT
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
IN/IS	INSULATED/ ISOLATED
IR	INFRARED
J-BOX	JUNCTION BOX
kV	KILOVOLT
kVA	KILOVOLT AMPERE
kVAR	KILOVOLT AMPERE REACTIVE
kW	KILOWATT
kWh	KILOWATT HOUR
LED	LIGHT EMITTING DIODE
LFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT
LFNC	LIQUID TIGHT FLEXIBLE NONMETALLIC CONDUIT
LPS	LOW PRESSURE SODIUM
LRA	LOCKED ROTOR AMPS
LTG	LIGHTING
LV	LOW VOLTAGE
MATV	MASTER ANTENNA TELEVISION SYSTEM
MAX	MAXIMUM
MC	METAL CLAD
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTION
MDP	MAIN DISTRIBUTION PANEL
MG	MOTOR GENERATOR
MH	MANHOLE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVERCURRENT PROTECTION
MTS	MANUAL TRANSFER SWITCH
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFC	NATIONAL FIRE CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
OCP	OVER CURRENT PROTECTION
OF/CI	OWNER FURNISHED/ CONTRACTOR INSTALLED
OF/OI	OWNER FURNISHED/ OWNER INSTALLED
OFP	OBTAIN FROM PLANS
OH DR	OVERHEAD (COILING) DOOR
OL	OVERLOAD
PB	PUSHBUTTON
PF	POWER FACTOR
PH	PHASE
PNL	PANEL
PT	POTENTIAL TRANSFORMER
PTZ	PAN/TILT/ZOOM
QTY	QUANTITY
R	REMOVE
RCP	REFLECTED CEILING PLAN
RMC	RIGID METAL CONDUIT
RNC	RIGID NONMETAL CONDUIT
RPM	REVOLUTIONS PER MINUTE
RR	REMOVE AND RELOCATE
S/S	START/STOP
SCA	SHORT CIRCUIT AMPS
SCBA	STANDARD COLOR AS SELECTED BY CALL OUT COLUMN AND FINISH
SF	SQUARE FOOT (FEET)
SFBA	STANDARD FINISH AS SELECTED BY CALL OUT COLUMN AND FINISH
SPD	SURGE PROTECTIVE DEVICE
SPDT	SINGLE POLE, DOUBLE THROW
SPEC	SPECIFICATION
SPST	SINGLE POLE, SINGLE THROW
ST	SINGLE THROW
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TL	TWIST LOCK
TP	TELEPHONE POLE
TP	TWISTED PAIR
TTB	TELEPHONE TERMINAL BOARD
TV	TELEVISION
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER
TYP	TYPICAL
UF	UNDERFLOOR
UGND	UNDERGROUND
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLTS
VA	VOLT AMPERE
VFC/VFD	VARIABLE FREQUENCY MOTOR CONTROLLER
W/	WITH
W/O	WITHOUT
WP	WEATHERPROOF
XFMR	TRANSFORMER

DEFINITIONS

NOTE: ALL ABBREVIATIONS MAY NOT BE USED.

INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED.

DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE CONTRACTING OFFICER", "REQUESTED BY THE CONTRACTING OFFICER", AND SIMILAR PHRASES.

APPROVED: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.

FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."

INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."

PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."

INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE OPERATIONS THEY ARE ENGAGED TO PERFORM.

TECHNOLOGY SYSTEMS: THE TERM "TECHNOLOGY SYSTEMS" IS USED TO DESCRIBE ALL LOW VOLTAGE SYSTEMS GENERALLY REFERRED TO AS "SPECIAL SYSTEMS". THESE SYSTEMS INCLUDE BUT ARE NOT NECESSARILY LIMITED TO ALL SYSTEMS WHICH UTILIZE VOLTAGES OF LESS THAN 71 VOLTS SUCH AS SOUND SYSTEMS, VIDEO SYSTEMS, TV SYSTEMS, SECURITY SYSTEMS, VOICE AND DATA CABLING SYSTEMS, ETC...

GENERAL ELECTRICAL NOTES

1. CLARIFICATION METHODS: AT THE TIME OF BIDDING, BIDDERS SHALL FAMILIARIZE THEMSELVES WITH THE DRAWINGS AND SPECIFICATIONS. ANY QUESTIONS, MISUNDERSTANDINGS, CONFLICTS, DELETIONS, DISCONTINUED PRODUCTS, CATALOG NUMBER DISCREPANCIES, DISCREPANCIES BETWEEN THE EQUIPMENT SUPPLIED AND THE INTENT OR FUNCTION OF THE EQUIPMENT, ETC, SHALL BE SUBMITTED TO THE CONTRACTING OFFICER IN WRITING FOR CLARIFICATION PRIOR TO ISSUANCE OF THE FINAL ADDENDUM AND BIDDING OF THE PROJECT. WHERE DISCREPANCIES OR MULTIPLE INTERPRETATIONS OCCUR, THE MOST STRINGENT (WHICH IS GENERALLY RECOGNIZED AS THE MOST COSTLY) THAT MEETS THE INTENT OF THE DOCUMENTS SHALL BE ENFORCED.

2. EXPOSED STRUCTURE AREAS (EXCLUDING MECHANICAL, ELECTRICAL, AND COMMUNICATION SPACES): INSTALL RACEWAYS BETWEEN DECK AND STRUCTURE WHEREVER POSSIBLE IN EXPOSED STRUCTURE CEILING AREAS. ROUTE RACEWAYS IN CONCEALED AREAS WHEREVER POSSIBLE. REFER ALL CONDITIONS WHERE RACEWAYS MUST BE INSTALLED WHICH CANNOT COMPLY WITH THESE REQUIREMENTS TO THE CONTRACTING OFFICER.

3. SUBMITTALS: PROVIDE ORIGINAL ELECTRONIC PDF FORMAT, BOUND, BOOKMARKED (EACH SECTION AND PRODUCT), AND HIGHLIGHTED. JOB NAME AND SUBCONTRACTOR SHALL BE ON THE FRONT COVER. PREPARE INDEX OF EQUIPMENT SUBMITTED IN EACH TAB.

4. REFLECTED CEILING PLANS: COORDINATE THE LOCATION OF LIGHT FIXTURES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. REFER ALL DISCREPANCIES TO THE CONTRACTING OFFICER.

5. ALL WORK SHALL BE DONE ACCORDING TO THE CURRENT NATIONAL ELECTRIC CODE (NEC), IBC, NFPA, AND IFC. COMPLIANCE AND FINAL APPROVAL IS SUBJECT TO THE ON SITE FIELD INSPECTION OF THE AHJ.

6 ELECTRICAL INSTALLATION SHALL BE DONE IN A NEAT AND ORDERLY MANNER AND COMPLY WITH NATIONAL ELECTRICAL INSTALLATION STANDARDS (NEIS).

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FA1.2	FIRE ALARM PLAN NEW – AREA B ADD ALTERNATE

LICENSED PROFESSIONAL ENGINEER
No. 7258080
SPENCER C. LITTLE
04-21-2023
STATE OF UTAH

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	S. LITTLE CADD J. KUEHN TECH. REVIEW: E. BEST DATE: 04/19/2023	EE0.1	SHEET INDEX, ABBREVIATIONS, AND GENERAL NOTES GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 80 OF 113

SYMBOLS LEGEND

SYMBOL	DESCRIPTION
ELECTRICAL POWER AND DISTRIBUTION	
	CIRCUIT BREAKER, MOLDED CASE (ONE–LINE DIAGRAM).
	TRANSFORMER (ONE–LINE DIAGRAM).
"1H"	PANELBOARD (ONE–LINE DIAGRAM).
225/3 "1H"	PANELBOARD WITH MAIN LUGS ONLY. BUS SIZE AND PHASE AS SHOWN (ONE–LINE DIAGRAM).
	DISCONNECT SWITCH, FUSED.
	DISCONNECT SWITCH, UNFUSED.
	STARTER, COMBINATION WITH DISCONNECT SWITCH.
	STARTER OR MOTOR CONTROLLER.
	PANELBOARD CABINET, FLUSH MOUNTED, 1 SECTION.
DP#__	DISTRIBUTION PANEL OR SWITCHBOARD.
LP	LIGHTING RELAY, CONTACTOR PANEL, OR DIMMING ENCLOSURE.
STRUCTURED CABLING	
X	OUTLET, DATA COMMUNICATION ("X" INDICATES QUANTITY OF CABLES).
LIGHTING	
(W–3)	FIXTURE IDENTIFICATION: (W–3) INDICATES FIXTURE AS SCHEDULED.
(W–3)	FIXTURE IDENTIFICATION, EMERGENCY WITH BATTERY PACK, CONNECTED TO GENERATOR AS INDICATED: (W–3) INDICATES FIXTURE TYPE AS SCHEDULED.
↑	EGRESS DIRECTION ARROW (EXIT SIGNS).
	EXIT SIGN: SINGLE FACE; CEILING MOUNTED
	EXIT SIGN: SINGLE FACE; WALL MOUNTED
	EXIT SIGN: DOUBLE FACE; CEILING MOUNTED
	EXIT SIGN: DOUBLE FACE; WALL MOUNTED
LIGHTING CONTROL	
	OCCUPANCY SENSOR, DUAL TECHNOLOGY, OMNI–DIRECTIONAL, CEILING.
	OCCUPANCY SENSOR, DUAL TECHNOLOGY, WALL.
P	PHOTOCELL.
	VACANCY SENSOR, DUAL TECHNOLOGY, OMNI–DIRECTIONAL, CEILING.
	SWITCH/OCCUPANCY SENSOR COMBO, DUAL TECHNOLOGY, WALL.
a,b	LOW VOLTAGE DIGITAL LIGHTING CONTROL SWITCH: LETTER "a,b" INDICATES ZONING WHERE SHOWN (REFER TO PLANS, SCHEDULES, AND DETAILS FOR EXACT BUTTON CONFIGURATION AND PROGRAMMING REQUIREMENTS)
DC	DIGITAL LIGHTING DIMING CONTROLLER
RC	DIGITAL LIGHTING ROOM CONTROLLER
L X	LIGHTING SPACE CONTROL TYPE. X INDICATES TYPE. SEE SCHEDULE / DIAGRAM.

SYMBOLS LEGEND

SYMBOL	DESCRIPTION
FIRE ALARM	
FACP	FIRE ALARM CONTROL PANEL, SEMI–RECESSED.
CM	CONTROL MODULE.
MM	MONITOR MODULE.
F	FIRE ALARM MANUAL PULL STATION.
R	SHUT DOWN RELAY: INSTALL RELAY IN CONTROL CIRCUIT OF EQUIPMENT TO BE CONTROLLED IN THE EVENT OF A FIRE.
	DETECTOR, SMOKE.
CO	DETECTOR, CARBON MONOXIDE.
	DETECTOR, SMOKE, DUCT WITH HOUSING AND SAMPLING TUBE.
	STROBE, WALL MOUNTED.
75	STROBE, WALL MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.
75	ALARM, STROBE, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.

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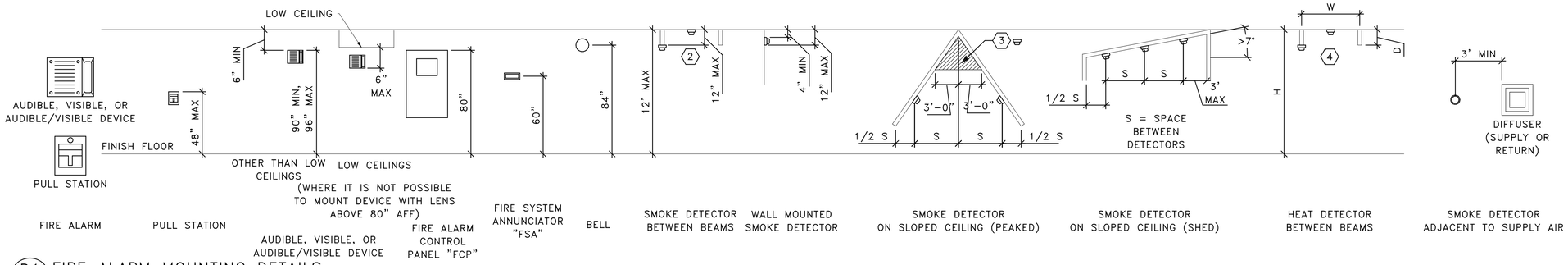
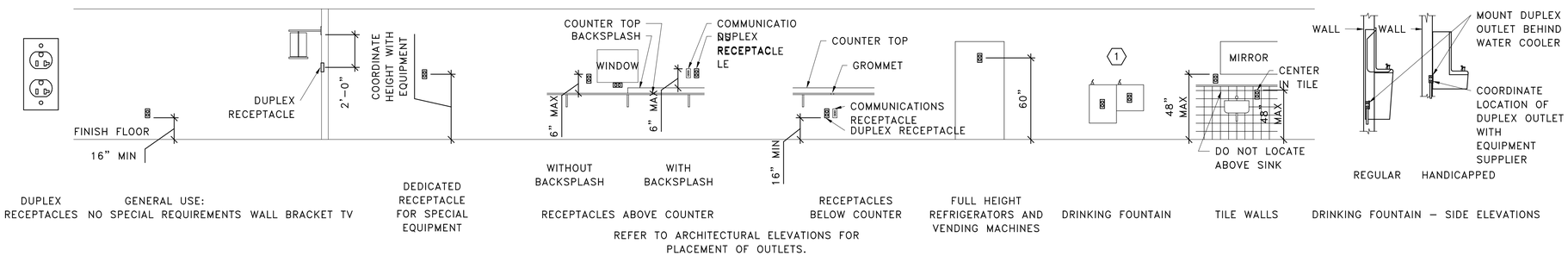
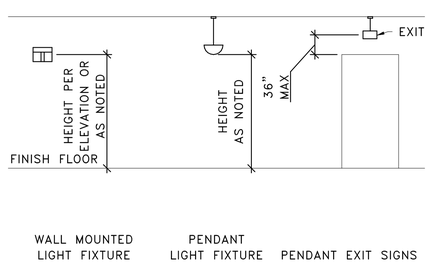
AJC ARCHITECTS SALT LAKE CITY, UT 84104	S. LITTLE DADP J. KUEHN TECH. REVIEW: E. BEST DATE: 04/19/2023	EE0.2	SYMBOL SCHEDULE GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 81 OF 113



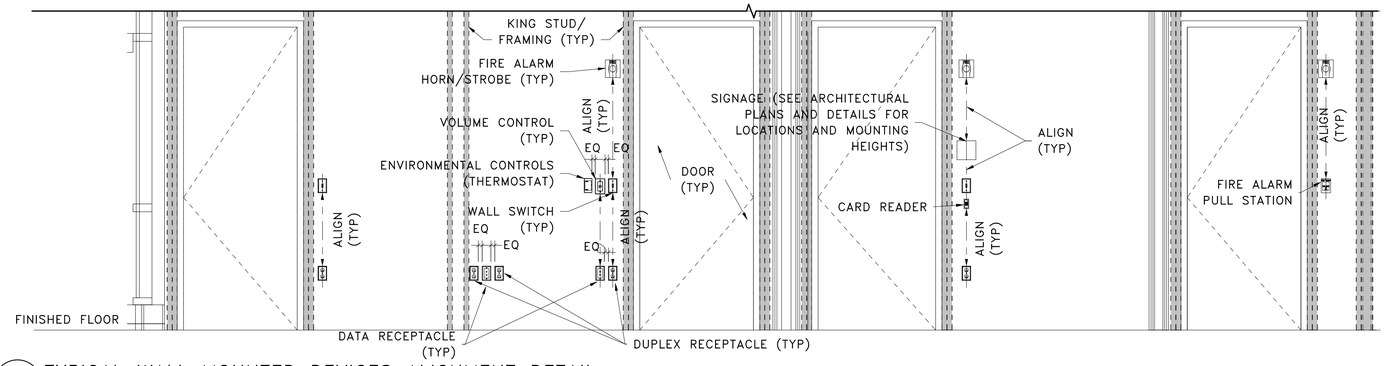
D1 EE0.3 FIRE ALARM MOUNTING DETAILS
SCALE: NTS



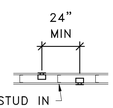
C1 EE0.3 RECEPTACLE MOUNTING DETAILS
SCALE: NTS



B1 EE0.3 LIGHTING MOUNTING DETAILS
SCALE: NTS



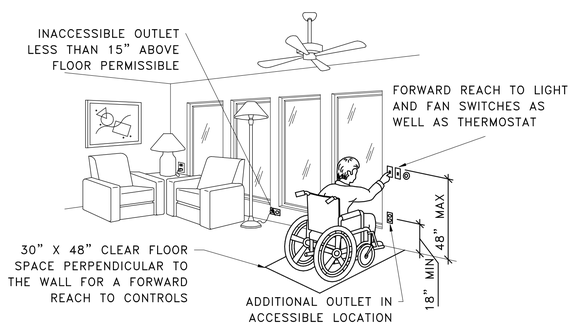
B2 EE0.3 TYPICAL WALL MOUNTED DEVICES ALIGNMENT DETAIL
SCALE: NTS



FOR LESS THAN 24" SEPERATION, PROVIDE LISTED SOUND AND FIRE PUTTY PADS

BOXES ON OPPOSITE SIDES OF WALL

A1 EE0.3 BOX MOUNTING DETAILS
SCALE: NTS



A2 EE0.3 ADA DETAIL
SCALE: NTS

GENERAL SHEET NOTES

1. DETERMINE MOUNTING HEIGHTS OF ELECTRICAL AND ELECTRONIC EQUIPMENT IN THE FOLLOWING ORDER OF PRIORITY:
   1 – ELEVATIONS (ARCHITECTURAL, ELECTRICAL, MECHANICAL, ETC).
   2 – EQUIPMENT SHOP DRAWINGS.
   3 – FIELD INSTRUCTIONS.
2. LOCATE RECEPTACLES SERVING THE SAME TYPE OF USE AT A UNIFORM HEIGHT UNLESS DIRECTED OTHERWISE.
3. MECHANICAL, ELECTRICAL, AND COMMUNICATION ROOMS: COORDINATE LOCATION OF LIGHTING AND POWER RECEPTACLES WITH EQUIPMENT, PIPING, AND DUCTWORK. DO NOT INSTALL RECEPTACLES BEHIND EQUIPMENT OR WHERE OTHERWISE INACCESSIBLE. POSITION LIGHTING REGARDLESS OF WHERE SHOWN ON DRAWING TO PROVIDE PROPER ILLUMINATION.
4. MOUNT RECEPTACLE BOXES FOR SWITCHES AND RECEPTACLES WITH LONG AXIS OF THE DEVICE VERTICAL UNLESS OTHERWISE INDICATED.
5. SET BOXES WITH PLASTER RINGS FLUSH WITH FINISHED SURFACE.
6. LOCATE BOX COVERS OR DEVICE PLATES SO THEY WILL NOT SPAN DIFFERENT TYPES OF BUILDING FINISHES EITHER VERTICALLY OR HORIZONTALLY.
7. VERIFY ALL DOOR CONDITIONS ON ARCHITECTURAL DRAWINGS PRIOR TO INSTALLING SWITCHES.
8. LOCATE WIRING DEVICES WHICH ARE ADJACENT AND ARE COMPATIBLE VOLTAGES IN ONE PLATE.
9. WHERE DEVICES ARE LOCATED IN CLOSE PROXIMITY OF THE SAME VERTICAL PLANE, ALIGN DEVICES VERTICALLY PER THE TYPICAL WALL MOUNTED DEVICES ALIGNMENT DETAIL, UNLESS OTHERWISE INDICATED.

SHEET KEYNOTES

1. LOCATE RECEPTACLES BEHIND DRINKING FOUNTAINS.
2. LOCATE AT BOTTOM OF BEAMS (OR JOISTS) OR AT CEILING. (REDUCE SPACING BY .5 PERPENDICULAR TO BEAM OR JOIST DIRECTION.) FOR OTHER CONDITIONS, REFER TO NFPA 72.
3. LOCATE DETECTOR ANYWHERE IN SHADED AREA BUT NOT IN TOP 4" OF PEAK.
4. LOCATE AT BOTTOM OF BEAMS IF D/H < .1 OR W/H < .4; OTHERWISE, LOCATE IN BEAM POCKET. FOR D > 4 REDUCE SPACING .33 PERPENDICULAR TO BEAMS.

LICENSED PROFESSIONAL ENGINEER No. 7258080 SPENCER C. LITTLE 04-21-2023 STATE OF UTAH

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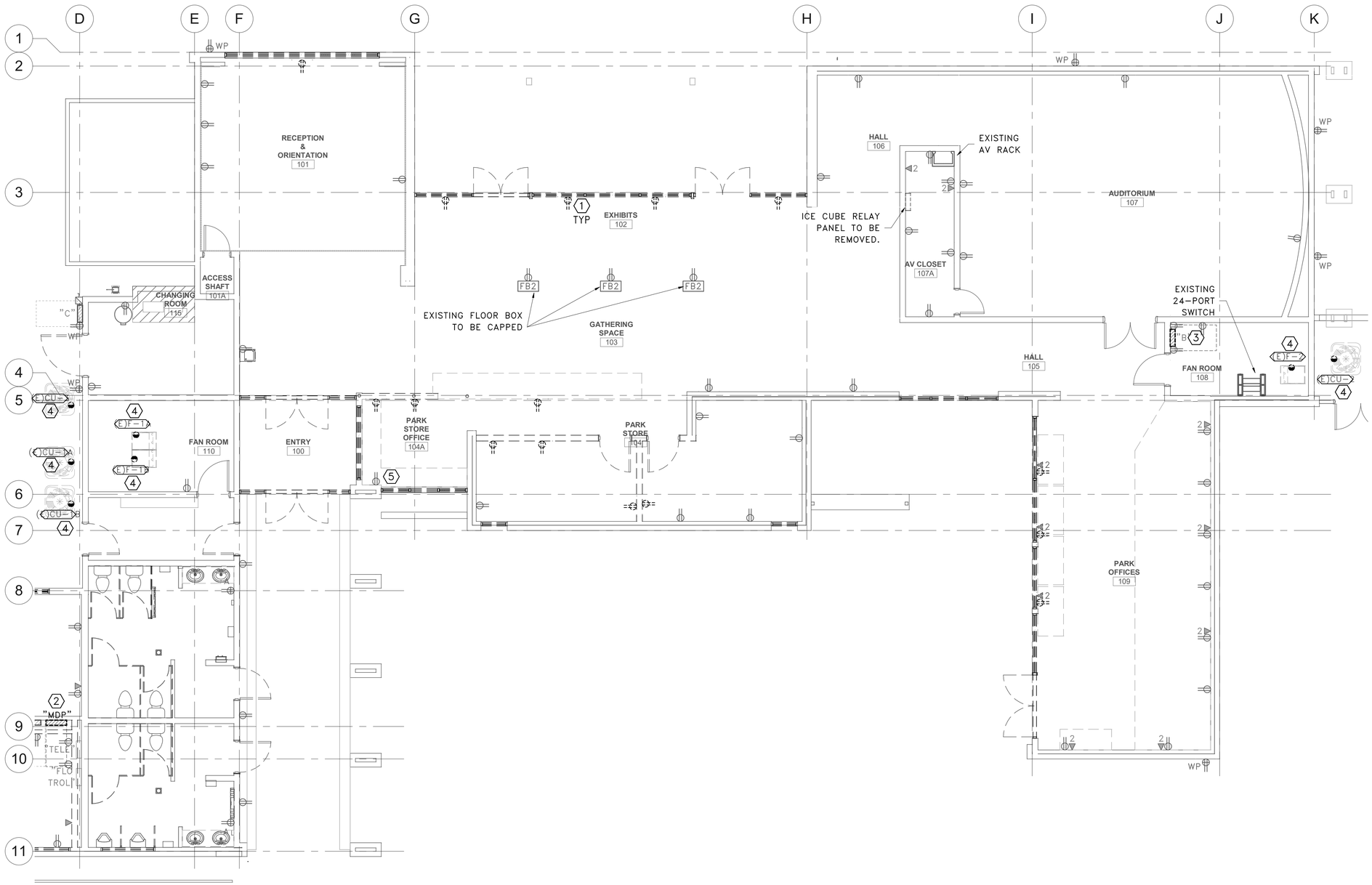


A1 DP1.1 POWER PLAN DEMO – AREA A

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

GENERAL SHEET NOTES

1 PRIOR TO SUBMITTING BID, VISIT THE SITE AND FIELD VERIFY THE EXTENT OF ELECTRICAL DEMOLITION WORK TO MEET THE INTENT OF THE BID DOCUMENTS AND INCLUDE ALL COSTS IN BID.

2 PRIOR TO REMOVAL OF ANY ELECTRICAL EQUIPMENT OR WIRING, FIELD VERIFY THAT THE EQUIPMENT OR WIRING IS INACTIVE OR NO LONGER IN USE. PRESERVE NETWORK CABLING FOR VOIP, OTHER EXISTING TELECOM CABLING SHALL BE REMOVED.

3 REMOVE ALL DEVICES, RACEWAYS AND WIRING FROM WALLS TO BE REMOVED. WHERE ACTIVE RACEWAYS OCCUR IN WALLS TO BE REMOVED, RE-ROUTE THE RACEWAY WITH ASSOCIATED WIRING TO KEEP THE CIRCUIT OPERATIONAL.

4 REMOVE ALL ABANDONED RACEWAY, METAL CLAD CABLE, CONDUIT, WIRING AND CABLING WHETHER ABANDONED PREVIOUS TO THIS PROJECT OR AS A RESULT OF THIS PROJECT. NOT ALL ABANDONED ITEMS ARE SHOWN ON THESE PLANS AND FIELD VERIFICATION OF DEMOLITION SCOPE EXTENT IS REQUIRED.

5 DEVICES MARKED "RR" ARE TO BE REMOVED AND RELOCATED PER NEW PLANS. EXTEND CIRCUITING AS REQUIRED FOR RELOCATION.

6 REFER TO ARCHITECTURAL DRAWINGS FOR REMOVAL OF MOTORS, CONDUIT, CONDUCTOR AND CONTROL WIRING ASSOCIATED WITH EXISTING MOTORIZED DOORS, PARTITIONS AND LIGHTING.

7 REMOVE FEEDERS FOR ALL DEMOLISHED PANELS, DISCONNETS, ETC. BACK TO SOURCE

8 ALL ITEMS INDICATED TO REMAIN SHALL BE PROTECTED DURING ALL PHASES OF CONSTRUCTION.

9 CONTRACTOR TO TRACE AND LABEL ALL EXISTING LOADS TO REMAIN, THAT ARE CURRENTLY FED FROM PANELS THAT ARE BEING DEMOLISHED IN THIS PHASE. THESE LOADS TO BE RE-FED FROM NEW PANELS IN NEXT PHASE.

10 ALL HVAC UNITS TO BE REMOVED BY MECHANICAL CONTRACTOR UNLESS NOTED OTHERWISE. REMOVE ALL ASSOCIATED RACEWAYS AND CONDUCTORS BACK TO SOURCE.

SHEET KEYNOTES

1 EXISTING DEVICE TO BE REMOVED.

2 REMOVE AND REPLACE EXISTING PANEL BOARD "MDP", REPLACE CHASE WALL BACK TO EXISTING CONDITIONS.

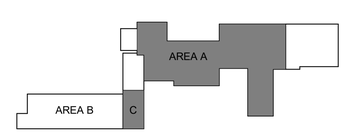
3 EXISTING PANEL TO BE REMOVED AND REPLACED WITH SAME SIZE PANEL.

4 EXISTING MECHANICAL EQUIPMENT REMOVED BY MECHANICAL CONTRACTOR. REMOVE ASSOCIATED CONDUCTORS, RACEWAYS, ETC. BACK TO PANEL.

5 WIRING FOR THE PUBLIC ADDRESS SYSTEM AND PARK RADIO ARE RELOCATED TO THE NEW ORIENTATION DESK.

4 0 4 8 12

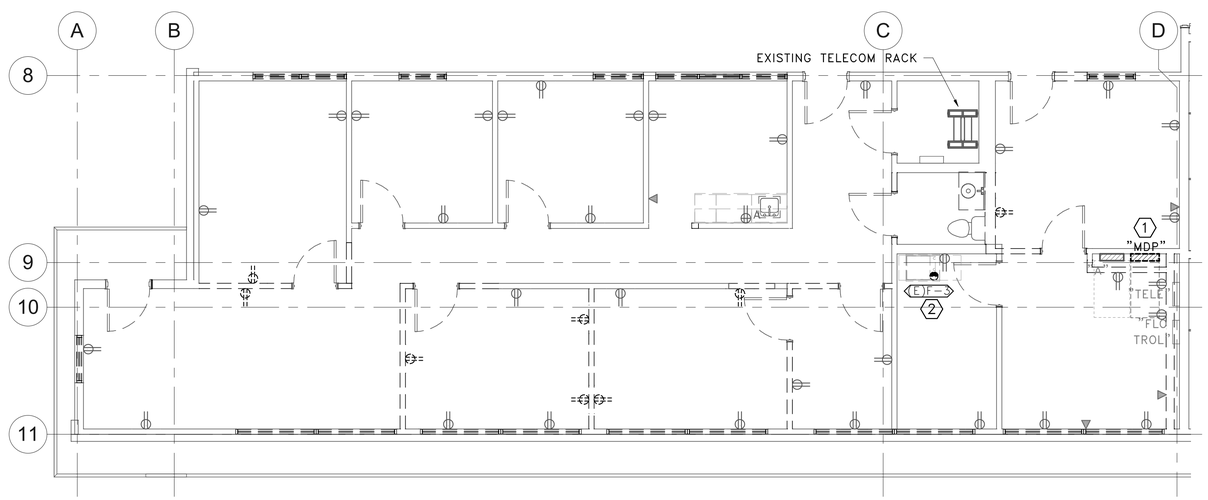
SCALE OF FEET



KEYPLAN

LICENSED PROFESSIONAL ENGINEER No. 7258080 SPENCER C. LITTLE 04-21-2023 STATE OF UTAH

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	S. LITTLE DADD J. KUEHN TECH. REVIEW: E. BEST DATE: 04/19/2023	DP1.1	POWER PLAN DEMO - AREA A GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 83 OF 113



A1 DP1.2 POWER PLAN DEMO – AREA B ADD ALTERNATE

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

GENERAL SHEET NOTES

1 PRIOR TO SUBMITTING BID, VISIT THE SITE AND FIELD VERIFY THE EXTENT OF ELECTRICAL DEMOLITION WORK TO MEET THE INTENT OF THE BID DOCUMENTS AND INCLUDE ALL COSTS IN BID.

2 PRIOR TO REMOVAL OF ANY ELECTRICAL EQUIPMENT OR WIRING, FIELD VERIFY THAT THE EQUIPMENT OR WIRING IS INACTIVE OR NO LONGER IN USE. PRESERVE NETWORK CABLING FOR VOIP, OTHER EXISTING TELECOM CABLING SHALL BE REMOVED.

3 REMOVE ALL DEVICES, RACEWAYS AND WIRING FROM WALLS TO BE REMOVED. WHERE ACTIVE RACEWAYS OCCUR IN WALLS TO BE REMOVED, RE–ROUTE THE RACEWAY WITH ASSOCIATED WIRING TO KEEP THE CIRCUIT OPERATIONAL.

4 REMOVE ALL ABANDONED RACEWAY, METAL CLAD CABLE, CONDUIT, WIRING AND CABLING WHETHER ABANDONED PREVIOUS TO THIS PROJECT OR AS A RESULT OF THIS PROJECT. NOT ALL ABANDONED ITEMS ARE SHOWN ON THESE PLANS AND FIELD VERIFICATION OF DEMOLITION SCOPE EXTENT IS REQUIRED.

5 DEVICES MARKED "RR" ARE TO BE REMOVED AND RELOCATED PER NEW PLANS. EXTEND CIRCUITING AS REQUIRED FOR RELOCATION.

6 REFER TO ARCHITECTURAL DRAWINGS FOR REMOVAL OF MOTORS, CONDUIT, CONDUCTOR AND CONTROL WIRING ASSOCIATED WITH EXISTING MOTORIZED DOORS, PARTITIONS AND LIGHTING.

7 REMOVE FEEDERS FOR ALL DEMOLISHED PANELS, DISCONNETS, ETC. BACK TO SOURCE

8 ALL ITEMS INDICATED TO REMAIN SHALL BE PROTECTED DURING ALL PHASES OF CONSTRUCTION.

9 CONTRACTOR TO TRACE AND LABEL ALL EXISTING LOADS TO REMAIN, THAT ARE CURRENTLY FED FROM PANELS THAT ARE BEING DEMOLISHED IN THIS PHASE. THESE LOADS TO BE RE–FED FROM NEW PANELS IN NEXT PHASE.

10 ALL HVAC UNITS TO BE REMOVED BY MECHANICAL CONTRACTOR UNLESS NOTED OTHERWISE. REMOVE ALL ASSOCIATED RACEWAYS AND CONDUCTORS BACK TO SOURCE.

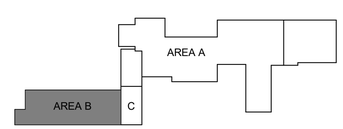
SHEET KEYNOTES

1 REMOVE AND REPLACE EXISTING PANEL BOARD "MDP", REPLACE CHASE WALL BACK TO EXISTING CONDITIONS.

2 EXISTING MECHANICAL EQUIPMENT REMOVED BY MECHANICAL CONTRACTOR. REMOVE ASSOCIATED CONDUCTORS, RACEWAYS, ETC. BACK TO PANEL.

4 0 4 8 12

SCALE OF FEET



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SPENCER C. LITTLE
04-21-2023
STATE OF UTAH

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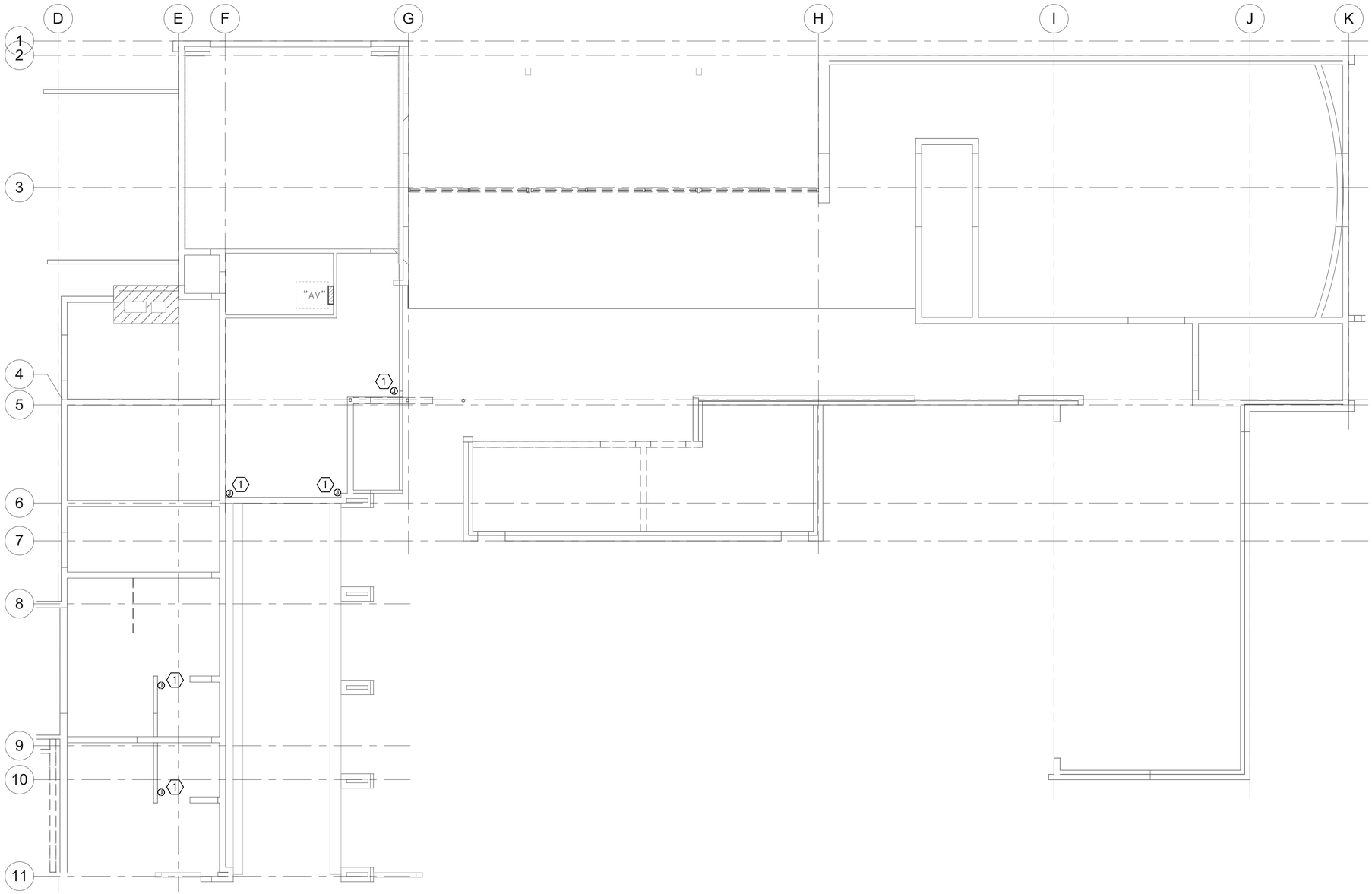
AJC ARCHITECTS SALT LAKE CITY, UT 84104	S. LITTLE DADD J. KUEHN TECH. REVIEW: E. BEST DATE: 04/19/2023	DP1.2	POWER PLAN DEMO - AREA B ADD ALTERNATE GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 84 OF 113



GENERAL SHEET NOTES

1 PRIOR TO SUBMITTING BID, VISIT THE SITE AND FIELD VERIFY THE EXTENT OF ELECTRICAL DEMOLITION WORK TO MEET THE INTENT OF THE BID DOCUMENTS AND INCLUDE ALL COSTS IN BID.

2 PRIOR TO REMOVAL OF ANY ELECTRICAL EQUIPMENT OR WIRING, FIELD VERIFY THAT THE EQUIPMENT OR WIRING IS INACTIVE OR NO LONGER IN USE. PRESERVE NETWORK CABLING FOR VOIP, OTHER EXISTING TELECOM CABLING SHALL BE REMOVED.

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4 REMOVE ALL ABANDONED RACEWAY, METAL CLAD CABLE, CONDUIT, WIRING AND CABLING WHETHER ABANDONED PREVIOUS TO THIS PROJECT OR AS A RESULT OF THIS PROJECT. NOT ALL ABANDONED ITEMS ARE SHOWN ON THESE PLANS AND FIELD VERIFICATION OF DEMOLITION SCOPE EXTENT IS REQUIRED.

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6 REFER TO ARCHITECTURAL DRAWINGS FOR REMOVAL OF MOTORS, CONDUIT, CONDUCTOR AND CONTROL WIRING ASSOCIATED WITH EXISTING MOTORIZED DOORS, PARTITIONS AND LIGHTING.

7 REMOVE FEEDERS FOR ALL DEMOLISHED PANELS, DISCONNETS, ETC. BACK TO SOURCE

8 ALL ITEMS INDICATED TO REMAIN SHALL BE PROTECTED DURING ALL PHASES OF CONSTRUCTION.

9 CONTRACTOR TO TRACE AND LABEL ALL EXISTING LOADS TO REMAIN, THAT ARE CURRENTLY FED FROM PANELS THAT ARE BEING DEMOLISHED IN THIS PHASE. THESE LOADS TO BE RE-FED FROM NEW PANELS IN NEXT PHASE.

10 ALL HVAC UNITS TO BE REMOVED BY MECHANICAL CONTRACTOR UNLESS NOTED OTHERWISE. REMOVE ALL ASSOCIATED RACEWAYS AND CONDUCTORS BACK TO SOURCE.

SHEET KEYNOTES

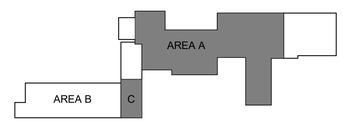
1 EXISTING CIRCUITS IN ATTIC TO BE RE-PURPOSED FOR NEW ATTIC LIGHTING.

4 0 4 8 12

SCALE OF FEET

A1 DP1.3 POWER PLAN DEMO – MEZZANINE

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



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04-21-2023
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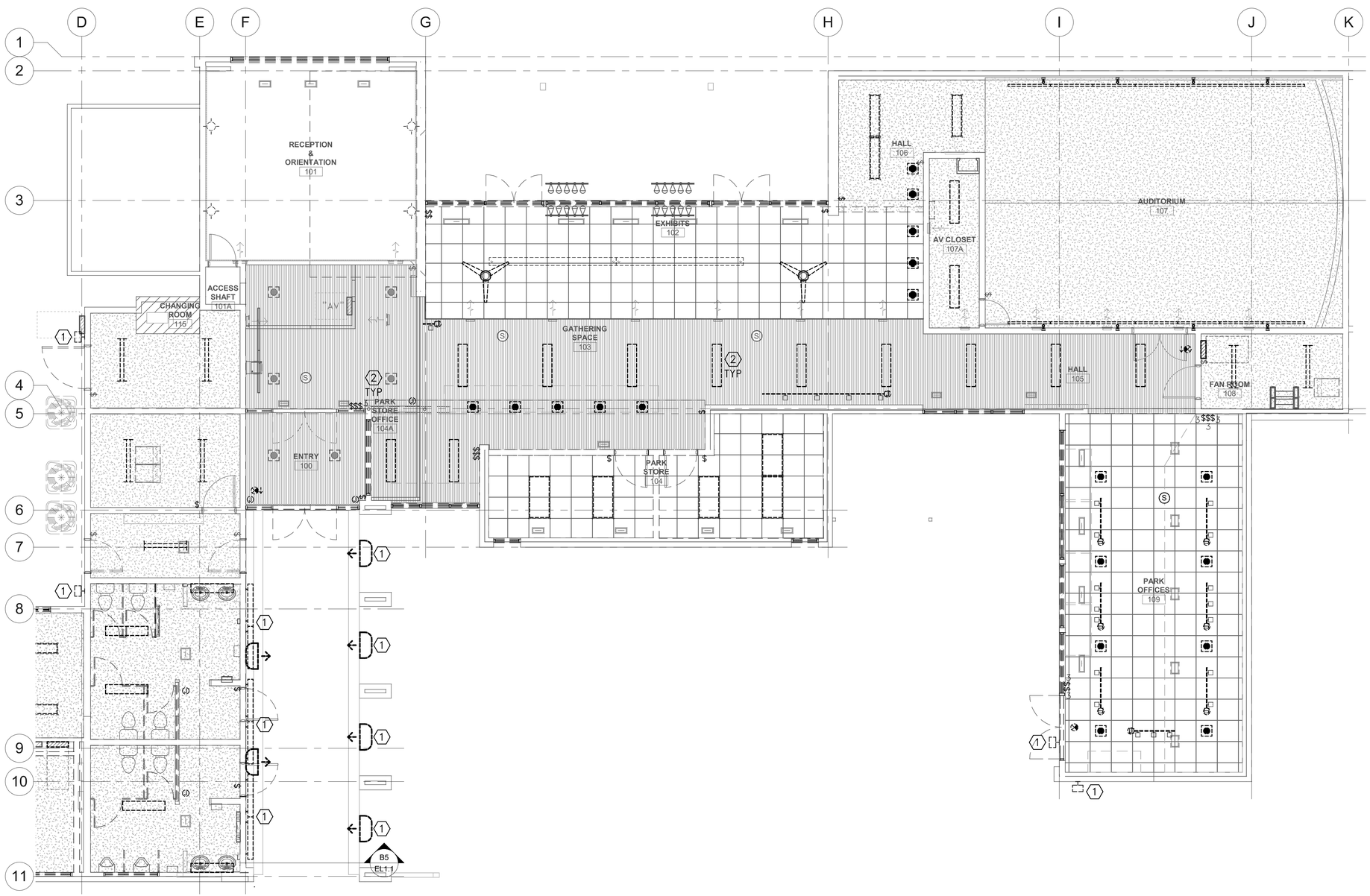
AJC ARCHITECTS SALT LAKE CITY, UT 84104	S. LITTLE DATE J. KUEHN TECH. REVIEW: E. BEST DATE: 04/19/2023	DP1.3	POWER PLAN DEMO - MEZZANINE GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 85 OF 113



GENERAL SHEET NOTES

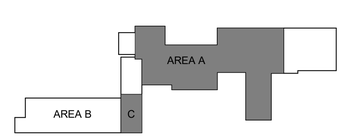
1. UNLESS NOTED OTHERWISE REMOVE ALL LIGHTING FIXTURES DEVICES AND EQUIPMENT SHOWN DASHED. REMOVE CONDUIT AND WIRING BACK TO PANELBOARD OF ORIGIN OR TO FIRST ACTIVE DEVICE THAT REMAINS.
2. SALVAGE ALL LIGHT FIXTURES, TWIST–LOCK RECEPTACLES AND WALLPLATES, CEILING SPEAKERS AND SECURITY AND FIRE ALARM DEVICES TO OWNER. PROTECT SALVAGED EQUIPMENT FROM DAMAGE.
3. PRIOR TO SUBMITTING BID, VISIT THE SITE AND FIELD VERIFY THE EXTENT OF ELECTRICAL DEMOLITION WORK TO MEET THE INTENT OF THE BID DOCUMENTS AND INCLUDE ALL COSTS IN BID.
4. DEVICES MARKED "RR" ARE TO BE REMOVED AND RELOCATED PER NEW PLANS. EXTEND CIRCUITING AS REQUIRED FOR RELOCATION.
5. ALL ITEMS INDICATED TO REMAIN SHALL BE PROTECTED DURING ALL PHASES OF CONSTRUCTION.
6. REMOVE ALL ABANDONED RACEWAY, METAL CLAD CABLE, CONDUIT, WIRING AND CABLING WHETHER ABANDONED PREVIOUS TO THIS PROJECT OR AS A RESULT OF THIS PROJECT. NOT ALL ABANDONED ITEMS ARE SHOWN ON THESE PLANS AND FIELD VERIFICATION OF DEMOLITION SCOPE EXTENT IS REQUIRED.

SHEET KEYNOTES

1. REMOVE LIGHT FIXTURES FOR BID OPTION #1.
2. EXISTING FIXTURES IN EXISTING WOOD SLAT CEILING TO BE REPLACED.

4 0 4 8 12
SCALE OF FEET

A1 / DL1.1 LIGHTING PLAN DEMO – AREA A
SCALE: 3/16" = 1'–0"



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04-21-2023
STATE OF UTAH

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AJC ARCHITECTS SALT LAKE CITY, UT 84104	S. LITTLE CADD J. KUEHN TECH. REVIEW: E. BEST DATE: 04/19/2023	DL1.1	LIGHTING PLAN DEMO - AREA A GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 86 OF 113

GENERAL SHEET NOTES

1. UNLESS NOTED OTHERWISE REMOVE ALL LIGHTING FIXTURES DEVICES AND EQUIPMENT SHOWN DASHED. REMOVE CONDUIT AND WIRING BACK TO PANELBOARD OF ORIGIN OR TO FIRST ACTIVE DEVICE THAT REMAINS.
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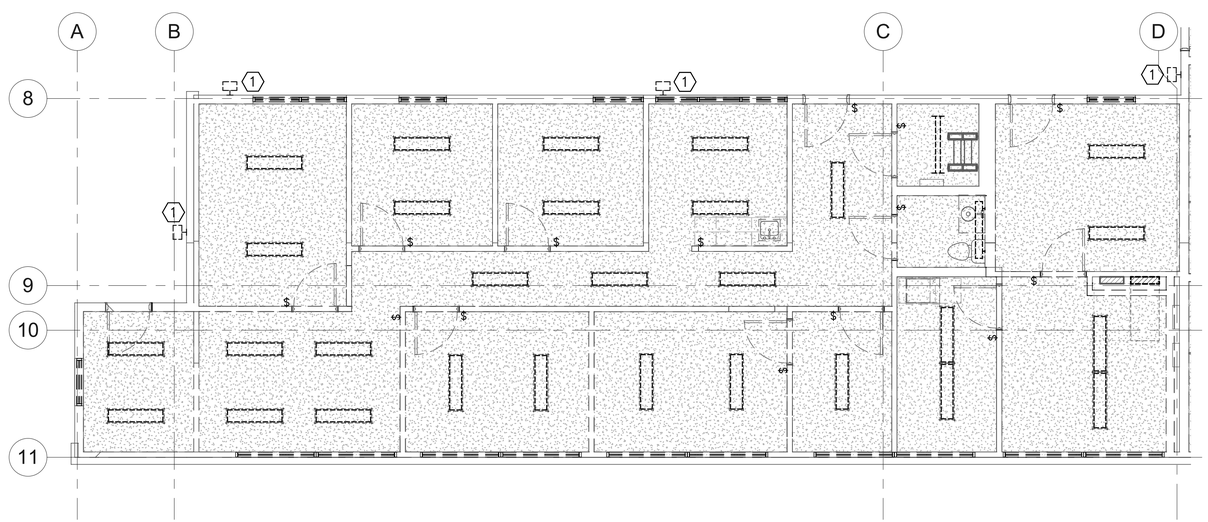
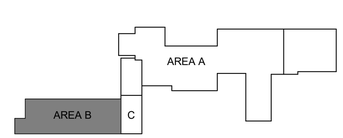
SHEET KEYNOTES

1. REMOVE LIGHT FIXTURES FOR BID OPTION #1.



4 0 4 8 12
SCALE OF FEET

A1 DL1.2 LIGHTING PLAN DEMO – AREA B ADD ALTERNATE
SCALE: 3/16" = 1'–0"



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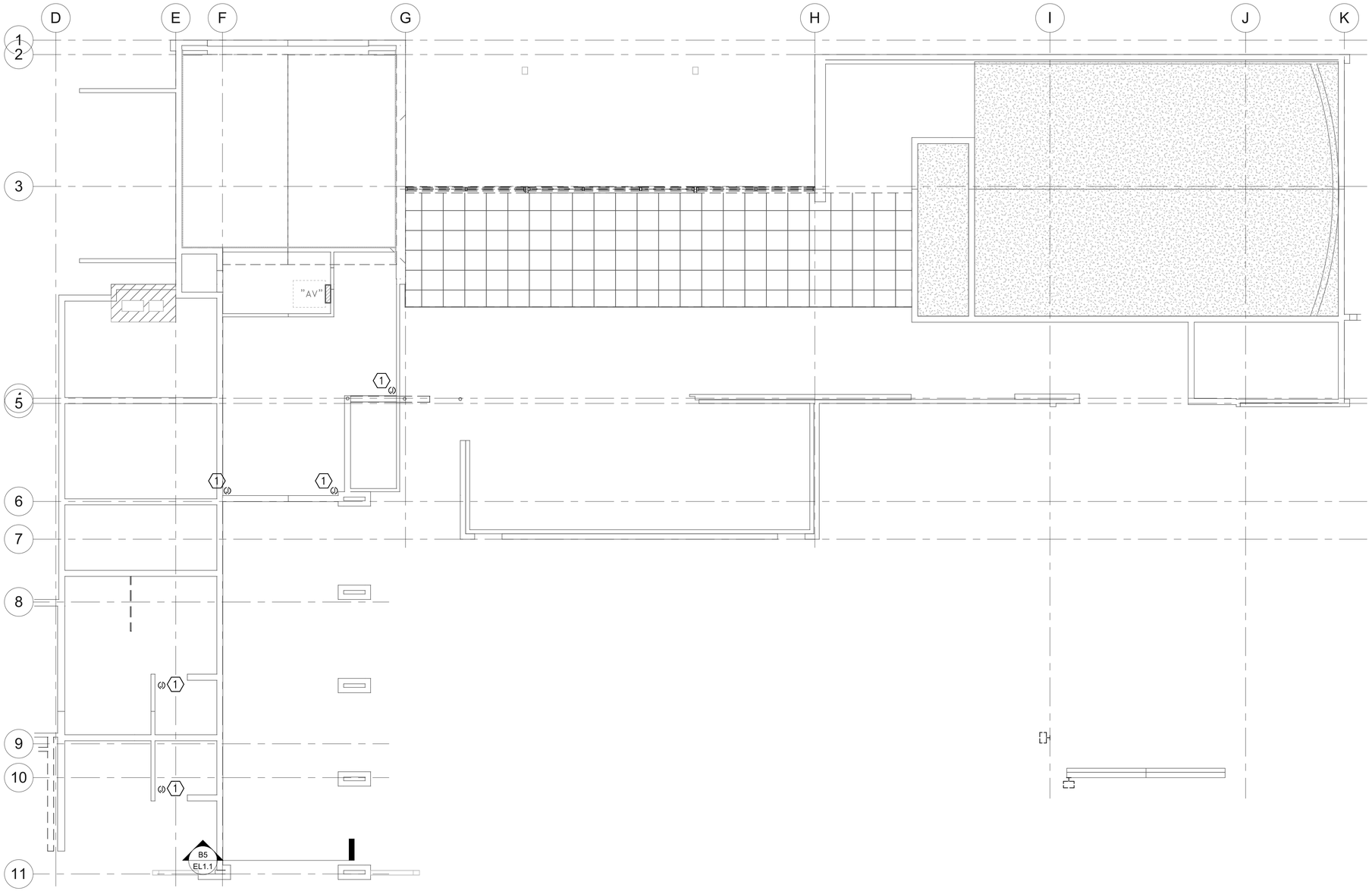

GENERAL SHEET NOTES

1. UNLESS NOTED OTHERWISE REMOVE ALL LIGHTING FIXTURES DEVICES AND EQUIPMENT SHOWN DASHED. REMOVE CONDUIT AND WIRING BACK TO PANELBOARD OF ORIGIN OR TO FIRST ACTIVE DEVICE THAT REMAINS.
2. SALVAGE ALL LIGHT FIXTURES, TWIST–LOCK RECEPTACLES AND WALLPLATES, CEILING SPEAKERS AND SECURITY AND FIRE ALARM DEVICES TO OWNER. PROTECT SALVAGED EQUIPMENT FROM DAMAGE.
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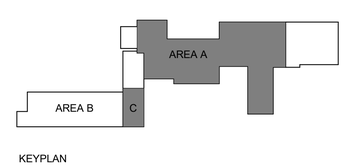
SHEET KEYNOTES

1. EXISTING CIRCUITS IN ATTIC TO BE RE–PURPOSED FOR NEW ATTIC LIGHTING.

A1 / DL1.3 LIGHTING PLAN DEMO – MEZZANINE
SCALE: 3/16" = 1'–0"



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SPENCER C. LITTLE
5-04-21-2023
STATE OF UTAH

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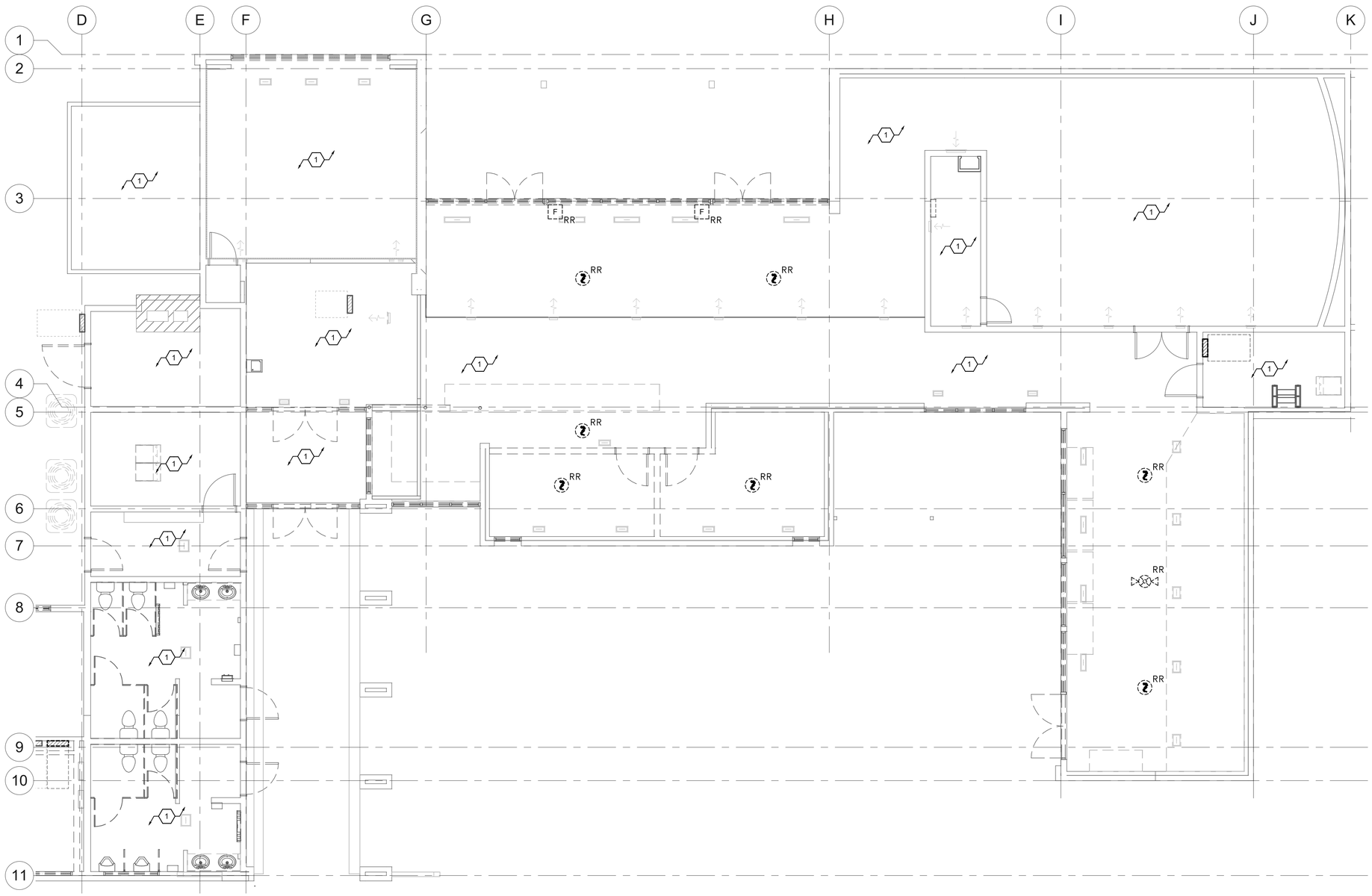
AJC ARCHITECTS SALT LAKE CITY, UT 84104	Designer CADD Author TECH. REVIEW: Checker DATE: 04/19/2023	DL1.3	LIGHTING PLAN DEMO - MEZZANINE GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 88 OF 113



GENERAL SHEET NOTES

1 THE SCOPE OF WORK FOR THIS PROJECT INCLUDES THE MODIFICATION OF THE EXISTING FIRE ALARM SYSTEM TO MEET REMODEL CONDITIONS. RELOCATE EXISTING DEVICES IF POSSIBLE OR PROVIDE NEW DEVICES COMPATIBLE WITH EXISTING SYSTEM.

2 OUT–OF–SERVICE DETECTORS AND DEVICES SHALL BE REMOVED FROM THE BUILDING AND PROGRAMMING SHALL BE UPDATED AS NECESSARY. PROVIDE UPDATED PROGRAMMING, MONITORING SERVICE AGREEMENT, AND UPDATED DEVICE MAP FOR ENTIRE BUILDING TO NPS.

3 PROVIDE UPDATED AS–BUILT DRAWINGS SHOWING ALL NEW AND EXISTING EQUIPMENT, INCLUDING ITEMS NOT ALTERED BY REMODEL WORK.

4 PRIOR TO SUBMITTING BID, VISIT THE SITE AND FIELD VERIFY THE EXTENT OF ELECTRICAL DEMOLITION WORK TO MEET THE INTENT OF THE BID DOCUMENTS AND INCLUDE ALL COSTS IN BID.

5 REMOVE ALL FIRE ALARM DEVICES WHERE EXISTING WALLS AND CEILINGS ARE BEING REMOVED, WITH ASSOCIATED CONDUIT AND WIRING. EXISTING FIRE ALARM DEVICES AND SYSTEM NOT INDICATED FOR REMOVAL SHALL REMAIN ACTIVE THROUGHOUT DEMOLITION AND CONSTRUCTION UNTIL THE NEW SYSTEM IS TESTED AND OPERATIONAL. MAINTAIN ALL CLASS A FIRE ALARM INITIATING AND INDICATING LOOPS WHERE EXISTING DEVICES ARE REMOVED.

6 DEVICES MARKED "RR" ARE TO BE REMOVED AND RELOCATED PER NEW PLANS. EXTEND CIRCUITING AS REQUIRED FOR RELOCATION.

7 ALL EXISTING DEVICES THAT REMAIN MAY NOT BE SHOWN. PROTECT DEVICES IN PLACE DURING ALL PHASES OF CONSTRUCTION.

8 FINAL SYSTEM SHALL BE TESTED IN ACCORDANCE WITH NFPA 72 AND NPS REQUIREMENTS. NPS AHJ SHALL BE PRESENT FOR FINAL TESTING.

9 INSTALLING CONTRACTOR SHALL PROVIDE DRAWINGS FOR PERMIT AND APPROVAL AS A DEFERRED SUBMITTAL.

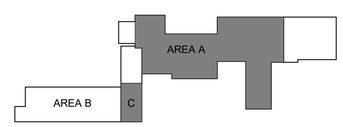
10 INSTALL CONDUIT RACEWAY TO ELIMINATE METAL CLAD CABLE TO THE GREATEST EXTEND POSSIBLE. THIS INCLUDES NEW AND ANY EXISTING WORK. METAL CLAD CABLE SHALL BE USED ONLY WHERE CONCEALED WALL SPACES PROCLUDE CONDUIT OR FOR SHORT CONNECTION RUNS)NO MORE THAN THREE FEET) TO DETECTION OR NOTIFICATION DEVICES. VARIANCES TO BE APPROVED BY CONTRACTING OFFICER.

SHEET KEYNOTES

1 EXISTING DEVICES IN THIS AREA TO REMAIN.

4 0 4 8 12
SCALE OF FEET

A1 / DF1.1 FIRE ALARM PLAN DEMO – AREA A
SCALE: 3/16" = 1'–0"



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AJC ARCHITECTS SALT LAKE CITY, UT 84104	J. DUBOIS DADE J. KUEHN TECH. REVIEW: E. BEST DATE: 04/19/2023	DF1.1	FIRE ALARM PLAN DEMO - AREA A GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 89 OF 113

GENERAL SHEET NOTES

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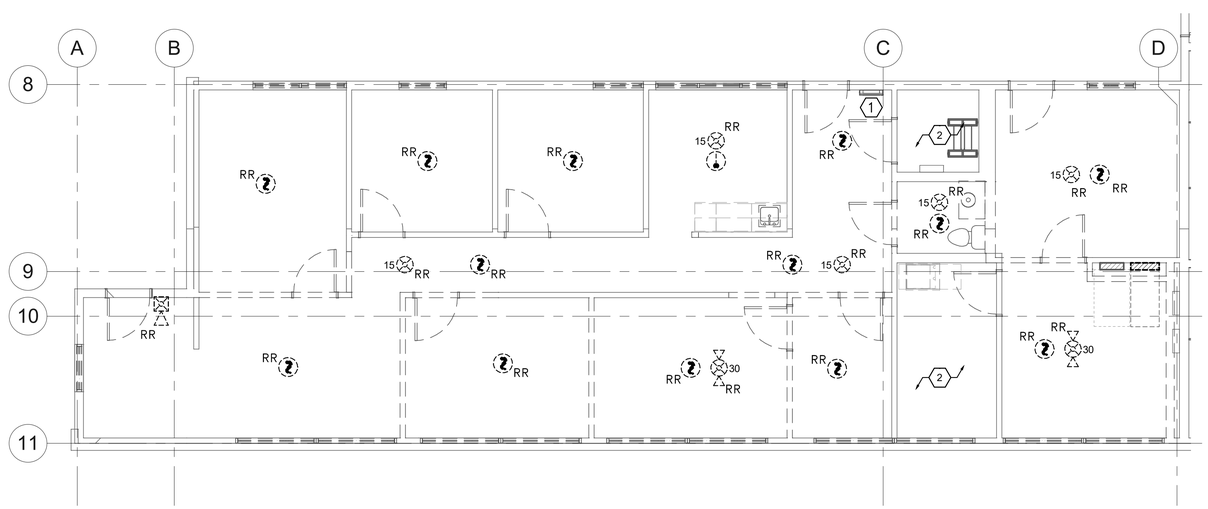
SHEET KEYNOTES

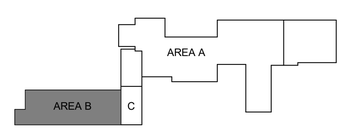
1 EXISTING FIRE ALARM PANEL TO REMAIN.

2 EXISTING DEVICES IN THIS AREA TO REMAIN.



4 0 4 8 12
SCALE OF FEET

A1 DF1.2 FIRE ALARM PLAN DEMO – AREA B ADD ALTERNATE
SCALE: 3/16" = 1'–0"



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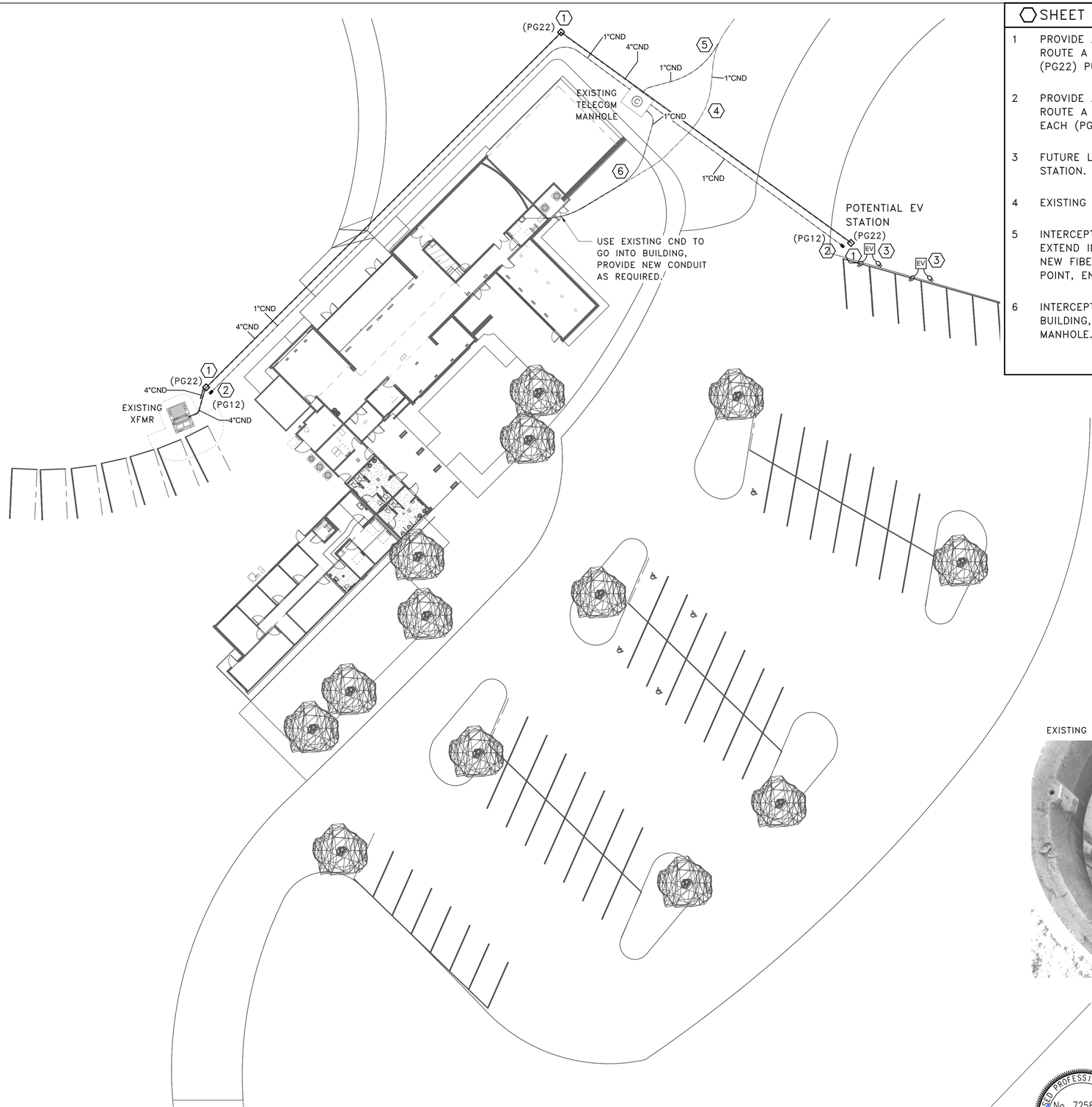


SHEET KEYNOTES

1. PROVIDE A (PG22) PULL BOX AT THIS LOCATION AND ROUTE A 4" CONDUIT FOR POWER BETWEEN EACH (PG22) PULL BOX FOR FUTURE EV PURPOSES.
2. PROVIDE A (PG12) PULL BOX AT THIS LOCATION AND ROUTE A 1" CONDUIT FOR COMMUNICATIONS BETWEEN EACH (PG12) PULL BOX FOR FUTURE EV PURPOSES.
3. FUTURE LOCATION OF TWO CIRCUIT EV CHARGING STATION.
4. EXISTING FIBER LINE.
5. INTERCEPT EXISTING CONDUIT AND FIBER LINE AND EXTEND INTO EXISTING TELECOM MANHOLE. PROVIDE NEW FIBER FROM MANHOLE TO SOURCE CONNECTION POINT, ENGINEHOUSE, FILED VERIFY.
6. INTERCEPT FIBER LINE AND EXTEND FIBER INTO BUILDING, ROUTE THROUGH EXISTING TELECOM MANHOLE.

EXISTING TELECOM MANHOLE

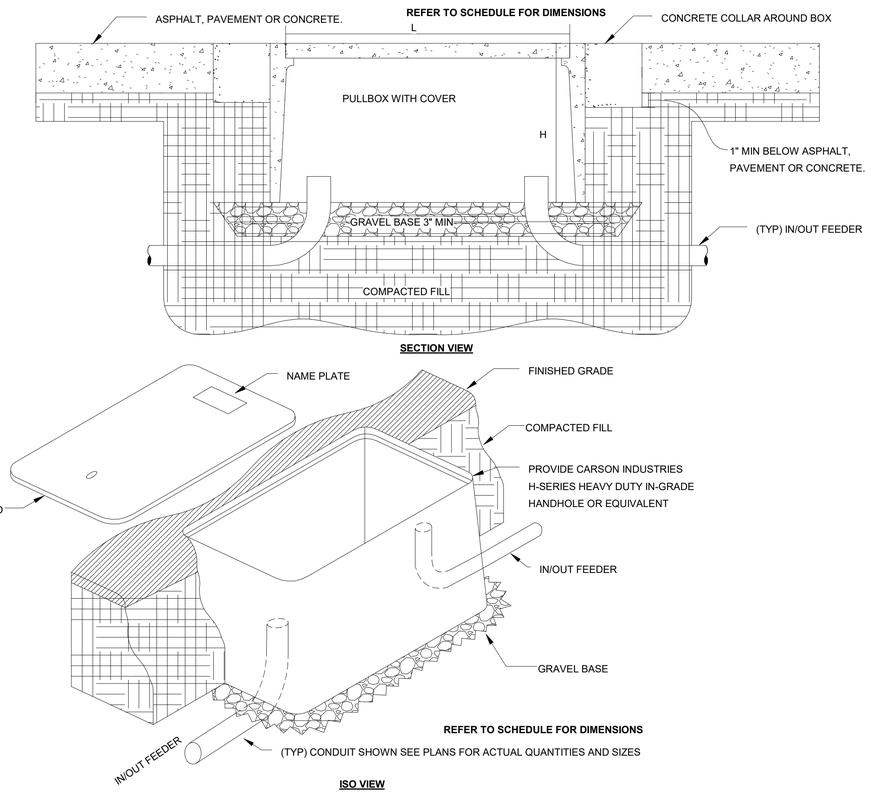
GENERAL SHEET NOTES

1. THE ELECTRICAL CONTRACTOR SHALL MEET WITH AND COORDINATE WITH ALL SERVICE PROVIDERS (POWER, COMMUNICATION, CABLE/SATELLITE, ETC.)TO THE FACILITY ON SITE PRIOR TO ANY WORK BEING PREFORMED. CONFIRM WITH EACH SERVICE PROVIDER EXACT LOCATIONS EQUIPMENT AND ROUTING. COMPLY WITH ALL SERVICE PROVIDER□S CURRENT STANDARDS AND REQUIREMENTS. PROVIDE THE REQUIRED EQUIPMENT, RACEWAYS, BOXES, CABLE, ETC. AS REQUIRED BY THE SERVICE PROVIDER WEATHER SHOWN ON THE DRAWINGS OR NOT.
2. FOR ALL LIGHT FIXTURES, POLE LIGHTS, AND ALL OTHER ELECTRICAL DEVICES THE CONTRACTOR SHALL COORDINATE EXACT LOCATION AND MOUNTING HEIGHTS WITH ARCHITECT, OWNER, ENGINEER, AND ALL OF THE CONTRACT DOCUMENTS PRIOR TO ROUGH IN AND TRENCHING.
3. CONTRACTOR IS RESPONSIBLE FOR ALL TRENCHING, BACKFILL, AND COMPACTION ASSOCIATED TO ALL ELECTRICAL UNDERGROUND RACEWAYS AND CABLES. COORDINATE WITH ARCHITECTURAL AND CIVIL DRAWINGS. SEE UNDERGROUND RACEWAY DETAILS FOR REQUIREMENTS FOR EACH TRENCH.
4. CONTRACTOR SHALL INSTALL POLE MOUNTED LIGHTS IN STRAIGHT LINES, SQUARE, AND PLUMB. COORDINATE WITH ARCHITECT AND CIVIL DRAWINGS.
5. THE ELECTRICAL CONTRACTOR SHALL HAVE ANY AND ALL CONCRETE POLE BASES AND SLABS REVIEWED BY A STRUCTURAL ENGINEER AND SHALL MODIFY DESIGN PER STRUCTURAL ENGINEER□S AND OR AHJ□S RECOMMENDATIONS.
6. PROVIDE BATTERY PACKS IN ALL EXTERIOR FIXTURES ADJACENT TO EGRESS DOORS.
7. PROVIDE PHOTOCELL ON NORTH SIDE OF FACILITY TO CONTROL EXTERIOR LIGHTS.
8. ALL EXTERIOR RECEPTACLES SHOWN SHALL BE NEMA 5-20R GFCI □WEATHER RESISTANT□ RECEPTACLE WITH □WEATHER PROOF IN-USE COVER.□
9. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONCRETE/ASPHALT CUTTING AND REPLACEMENT OF CONCRETE/ASPHALT TO MATCH EXISTING ASSOCIATED WITH UNDERGROUND RACEWAYS PROVIDED AS PART OF THIS PROJECT.
10. REFER TO PLANS FOR CONSTRAINTS ON PHYSICAL DIMENSIONS AND CLEARANCE REQUIREMENTS OF EQUIPMENT. PROVIDE EQUIPMENT DIMENSIONS THAT FALL WITHIN THE CONSTRAINTS OF EACH SPECIFIC LOCATION.
11. PROVIDE SERVICE RATED EQUIPMENT AT EACH SERVICE ENTRANCE.
12. SERVICE EQUIPMENT SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT. VERIFY OR RE-CALCULATE THE AVAILABLE FAULT CURRENT AT THE SERVICE WHERE MODIFICATIONS TO THE ELECTRICAL INSTALLATION OCCUR. PLEASE INCLUDE NOTES IN THE ELECTRICAL DRAWINGS OR SUPPLY CALCULATIONS WHERE APPLICABLE. SEE NEC 110.24. (B)

A1 / ES1.1 SITE ELECTRICAL PLAN
SCALE: 1" = 20'-0"

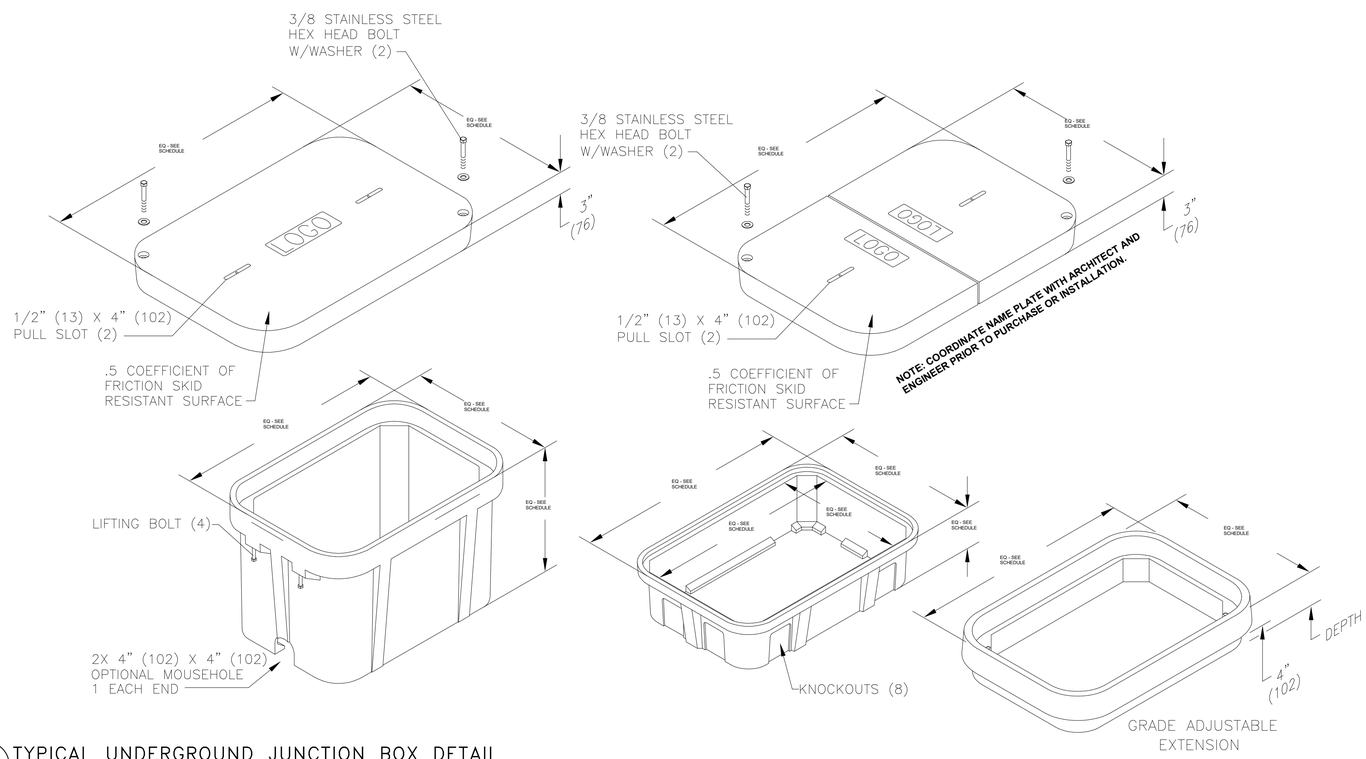
LICENSED PROFESSIONAL ENGINEER
No. 7258080
SPENCER C. LITTLE
04-21-2023
STATE OF UTAH

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	S. LITTLE DADD J. KUEHN TECH. REVIEW: S. LITTLE DATE: 04/19/2023	ES1.1	SITE ELECTRICAL PLAN GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 91 OF 113



B4 ES5.1 TYPICAL AT-GRADE PULLBOX ENCLOSURE DETAIL

SCALE: NTS



A1 ES5.1 TYPICAL UNDERGROUND JUNCTION BOX DETAIL

SCALE: NTS

LICENSED PROFESSIONAL ENGINEER No. 7258080 SPENCER C. LITTLE 04-21-2023 STATE OF UTAH

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	S. LITTLE DRAWN: J. KUEHN TECH. REVIEW: S. LITTLE DATE: 04/19/2023	ES5.1	SITE ELECTRICAL DETAILS GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 92 OF 113

APPLICATION TIERS	TYPE	DESCRIPTION
LIGHT DUTY	VERTICAL	PEDESTRIAN TRAFFIC ONLY.
TIER 5	VERTICAL	SIDEWALK APPLICATIONS WITH A SAFTEY FACTOR FOR OCCCASIONAL ACCIDENTAL VEHICULAR TRAFFIC.
	LATERAL	
TIER 8	VERTICAL	SIDEWALK APPLICATIONS WITH A SAFTEY FACTOR FOR OCCCASIONAL ACCIDENTAL VEHICULAR TRAFFIC.
	LATERAL	
TIER 15	VERTICAL	DRIEVEWAY, PARKING LOT, AND OFF ROAD APPLICATIONS SUBJECT TO OCCASIONAL NON-DELIBERATE VEHICULAR TRAFFIC.
	LATERAL	
TIER 22	VERTICAL	DRIVEWAY, PARKING LOT, AND OFF ROAD APPLICATIONS SUBJECT TO NON-DELIBERATE HEAVY VEHICULAR TRAFFIC.
	LATERAL	

BOX OPTIONS	DESCRIPTION
BA	BOX WITH OPEN BOTTOM
BB	BOX WITH MOUSE HOLES
BC	DIVIDED BOX
BG	GASKETED BOX WITH OPEN BOTTOM
DA	BOX WITH SOLID BOTTOM
DG	GASKETED BOX WITH SOLID BOTTOM
JA	FOOTED BOX
EA	EXTENSION
RA	SOLID BASE EXTENSION

COVER OPTIONS	DESCRIPTION
CA	BOLT DOWN COVER
WA	STANDARD WITH NO BOLTS
LR	CAST IRON 6 4-1/2" X 7-1/2" LID
LP	CAST IRON 6"X12" LID
LQ	CAST IRON 9"X12" LID
LK	POLYMER CONCRETE 6"X9" DROP-IN LID
LL	POLYMER CONCRETE 7" X 13" DROP-IN LID
LS	THROUGH SLOT (NO METER LID)
O2	OPENS UNDER 90°
OO	USED WITH DROP-IN LID

SYMBOLS LEGEND

NOTES:
1. CONTRACTOR SHALL PROVIDE A SUBMITTAL ON ALL UNDERGROUND ENCLOSURES FOR THIS PROJECT.
2. ALL ENCLOSURES SHALL BE UL LISTED
3. CONTRACTOR SHALL COORDINATE THE TIER RATING WITH CIVIL ENGINEER AND ARCHITECT IN THE SUBMITTAL PROCESS.
4. CONTRACTOR SHALL ADJUST THE SIZE OF THE ENCLOSURE AS REQUIRED FOR INSTALLATION. SUBMIT AN RFI OR PROVIDE SOME OTHER DOCUMENTATION SO THAT THE DESIGN TEAM AND OWNER UNDERSTAND THIS MODIFICATION PRIOR TO MOVING FORWARD WITH ADJUSTED SIZE OF ENCLOSURE.
5. PROVIDE BASIS OF DESIGN (BOD) ENCLOSURE OR PRE-APPROVED EQUAL.

FIXTURE STYLES

STYLE NAME	DESCRIPTION	IMAGES
PG	STRAIGHT SIDES ALLOW FOR EASY ASJUSTMENT OF BOX SHOULD THE GRADE LEVEL CHANGE. USED FOR A VARIETY OF PURPOSES, SUCH AS A SPLICE BOX, PULL BOX, EQUIPMENT ENCLOSURE, OR FOR ANY APPLICATION REQUIRING EASY ACCESS TO AN UNDERGROUND SERVICE. PG BOXES ARE STACKABLE FOR INCREASED DEPTH.	
PC	STRAIGHT SIDES ALLOW FOR EASY ASJUSTMENT OF BOX SHOULD THE GRADE LEVEL CHANGE. ALL PC BOXES ARE STACKABLE AND ARE AVAILABLE WITH GASKETING.	
PX	PX STYLES ARE EXCELLENT FOR SERVICE BOX ASSEMBLIES AND OFFER FLARED DESIGN TO PREVENT FROST HEAVE. PX BOXES ARE ALSO NESTABLE FOR COMPACT STORAGE.	
PT	THE FLARED DESIGN PREVENTS FROST HEAVE AND COVERS ARE INTERCHANGABLE WITH MANY PRECAST CONCRETE PARTS. PT BOXES ARE ALSO NESTABLE FOR COMPACT STORAGE.	
PD	THESE ENCLOSURES FEATURE A 1 DEGREE FLARE FOR MAXIMUM STRENGTH. FLARED DESIGN OPTIMIZES INTERNAL VOLUME AND MINIMIZES FROST HEAVE.	

UNDER GROUND ENCLOSURE SCHEDULE

ID	IMAGE	BOX DESCRIPTION	LENGTH	WIDTH	DEPTH	ABOVE GRADE HEIGHT	BASIS OF DESIGN MANUFACTURE PART NO.	BOX OPTIONS	COVER LOGO	COVER OPTIONS	STYLE	TRAFFIC TIER NO.
(PG–12)		UNDERGROUND ENCLOSURE; PRECAST POLYMER CONCRETE WITH REINFORCED WITH FIBER GLASS. PROVIDE WITH BOLT ON COVER.	0' – 11"	1' – 6"	1' – 6"	INSTALL FLUSH WITH GRADE	QUAZITE (PG1324–18)	BA – BOX WITH OPEN BOTTOM	"ELECTRICAL"	WITH TWO BOLTS AND A SINGLE LOGO	PG	TIER 15
(PG–22)		UNDERGROUND ENCLOSURE; PRECAST POLYMER CONCRETE WITH REINFORCED WITH FIBER GLASS. PROVIDE WITH BOLT ON COVER.	2' – 0"	2' – 0"	1' – 6"	INSTALL FLUSH WITH GRADE (0'–0")	QUAZITE (PG2424 18)	BA – BOX WITH OPEN BOTTOM	"ELECTRICAL"	WITH TWO BOLTS AND A SINGLE LOGO	PG	TIER 15

LICENSED PROFESSIONAL ENGINEER
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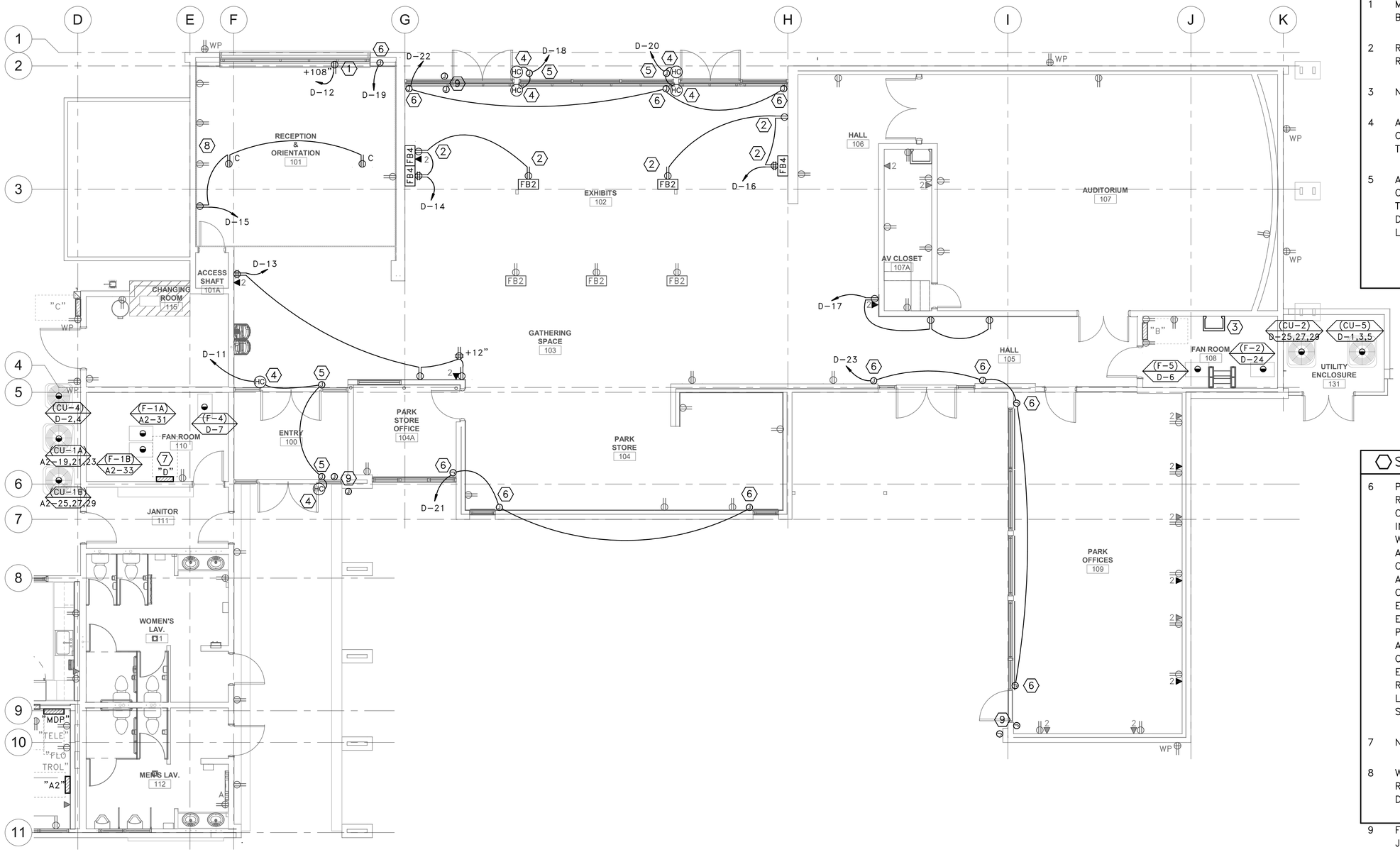
AJC ARCHITECTS SALT LAKE CITY, UT 84104	S. LITTLE CADD J. KUEHN TECH. REVIEW: S. LITTLE DATE: 04/19/2023	ES5.2	SITE ELECTRICAL DETAILS GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 93 OF 113



GENERAL SHEET NOTES

1 COORDINATE NEW OUTLETS ON EXISTING WALL WITH ARCH.

SHEET KEYNOTES

1 MOUNT DUPLEX ABOVE WINDOW FRAME FOR MURAL BACK LIGHTING.

2 RECEPTACLE FOR CASE LIGHT FIXTURE, CONTROL BY RELAY PANEL.

3 NEW COMMUNICATIONS PATCH PANEL.

4 ADA ACCESS PUSH BUTTON MOUNTED ON MULLION. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.

5 ADA ACCESS PUSH BUTTON MOUNTED IN WALL. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLATION. INSTALL JUNCTION BOXES ABOVE DOORS FOR DOOR POWER, COORDINATE EXACT LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.

SHEET KEYNOTES

6 PROVIDE ELECTRICAL CONNECTIONS TO ELECTRIFIED ROLLER SHADES, WITH ALL POWER WIRING AND CONTROL CONDUIT PER MANUFACTURER'S WRITTEN INSTRUCTIONS. COORDINATE J-BOX AND CONNECTIONS WITH ARCHITECT SUCH THAT J-BOXES AND WIRING ARE CONCEALED FROM VIEW AND ACCESSIBLE. VERIFY CONTROL METHOD AND/OR SWITCH LOCATION WITH ARCHITECT PRIOR TO INSTALLATION. PROVIDE CONNECTIONS TO ALL SEPARATE SHADES IN PLAN AND ELEVATION (ALL CONNECTIONS MAY NOT BE SHOWN). ELECTRICAL INSTALLER IS RESPONSIBLE FOR ALL POWER (120V) CONDUIT, WIRING AND CONNECTIONS, AND PROVIDING CONDUIT STUBBED TO ACCESSIBLE CEILING SPACE (OR TO THE DECK IF CEILING IS EXPOSED) FOR LOW-VOLTAGE CONTROL WIRING. ROLLER SHADE INSTALLER IS RESPONSIBLE FOR ALL LOW-VOLTAGE CONTROL WIRING, AND FOR CABLE SUPPORT METHODS AND RACEWAYS ABOVE CEILINGS.

7 NEW PANEL "D".

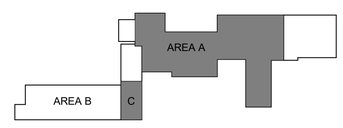
8 WIRING FOR THE PUBLIC ADDRESS SYSTEM AND PARK RADIO ARE RELOCATED TO THE NEW ORIENTATION DESK.

9 FOR FUTURE CARD READER PROVIDE A SINGLE GANG J-BOX ABOVE CEILING AND A SINGLE GANG J-BOX AT 40" AFF. PROVIDE 3/4" C BETWEEN J-BOX'S AND A 3/4" C TO ACCESSIBLE CEILING FOR POWER AND SIGNAL CABLING.

SCALE OF FEET

A1 EP1.1 POWER PLAN NEW – AREA A

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



KEYPLAN

LICENSED PROFESSIONAL ENGINEER No. 7258080 SPENCER C. LITTLE 04-21-2023 STATE OF UTAH

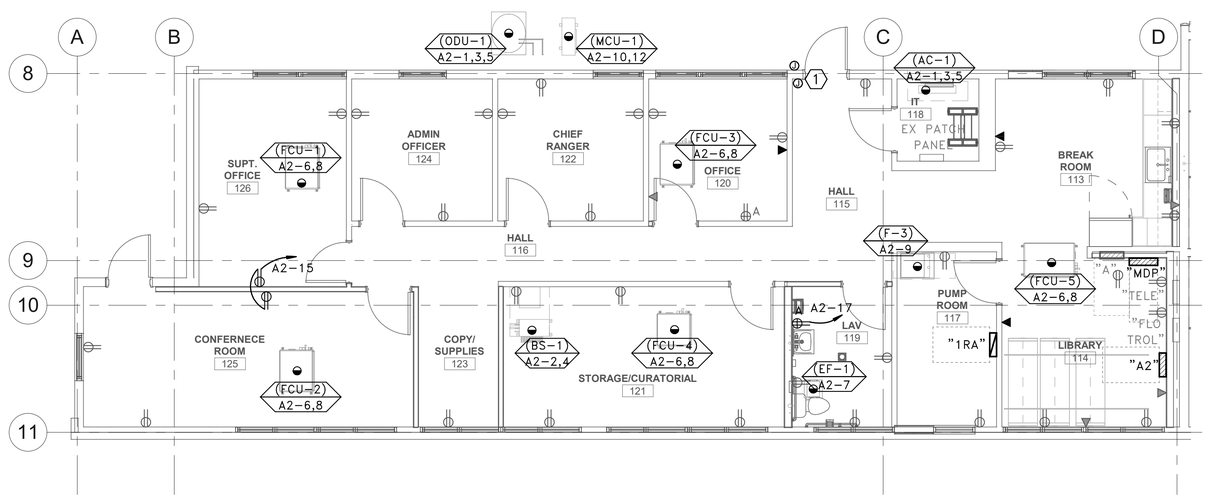
A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	S. LITTLE DRAWN: J. KUEHN TECH. REVIEW: E. BEST DATE: 04/19/2023	EP1.1	POWER PLAN NEW - AREA A GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 94 OF 113

GENERAL SHEET NOTES

1 COORDINATE NEW OUTLETS ON EXISTING WALL WITH ARCH.

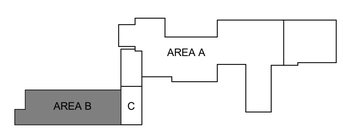
SHEET KEYNOTES

1 FOR FUTURE CARD READER PROVIDE A SINGLE GANG J–BOX ABOVE CEILING AND A SINGLE GANG J–BOX AT 40" AFF. PROVIDE 3/4" C BETWEEN J–BOX'S AND A 3/4" C TO ACCESSIBLE CEILING FOR POWER AND SIGNAL CABLING.



4 0 4 8 12
SCALE OF FEET

A1 / EP1.2 POWER PLAN NEW – AREA B ADD ALTERNATE
SCALE: 3/16" = 1'–0"



KEYPLAN

LICENSED PROFESSIONAL ENGINEER
No. 7258080
SPENCER C. LITTLE
04-21-2023
STATE OF UTAH

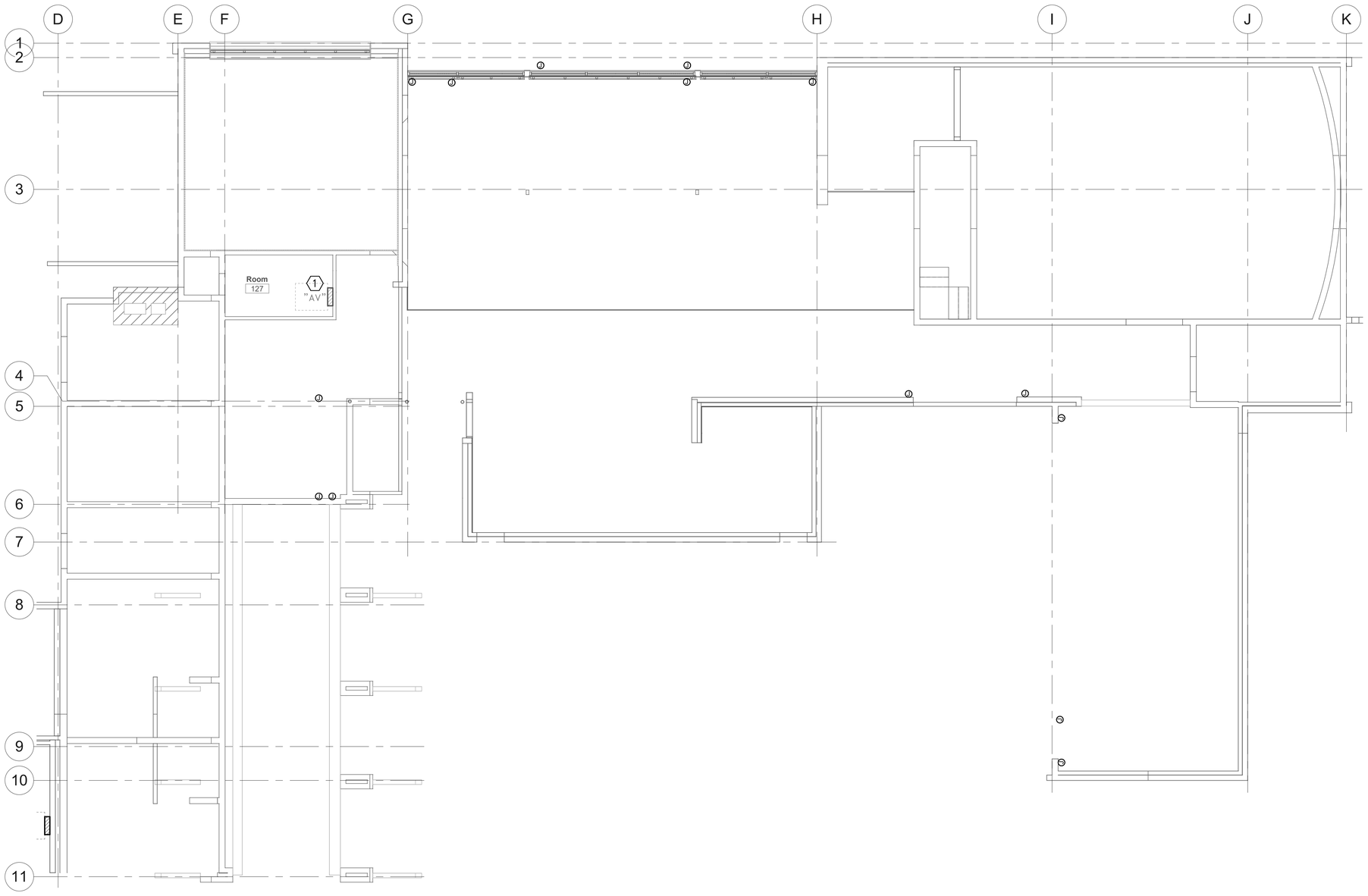
A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	S. LITTLE J. KUEHN TECH. REVIEW: E. BEST DATE: 04/19/2023	EP1.2	POWER PLAN NEW - AREA B ADD ALTERNATE GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 95 OF 113

GENERAL SHEET NOTES

1 COORDINATE NEW OUTLETS ON EXISTING WALL WITH ARCH.

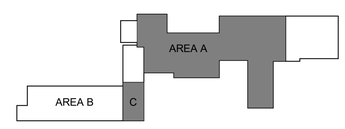
SHEET KEYNOTES

1 PANELS LOCATED IN MEZZANINE. EXISTING PANEL "AV".



A1 EP1.3 POWER PLAN NEW – MEZZANINE

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



KEYPLAN

LICENSED PROFESSIONAL ENGINEER
No. 7258080
SPENCER C. LITTLE
04-21-2023
STATE OF UTAH

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	Designer CADD Author TECH. REVIEW: Checker DATE: 04/19/2023	EP1.3	POWER PLAN NEW - MEZZANINE GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 96 OF 113

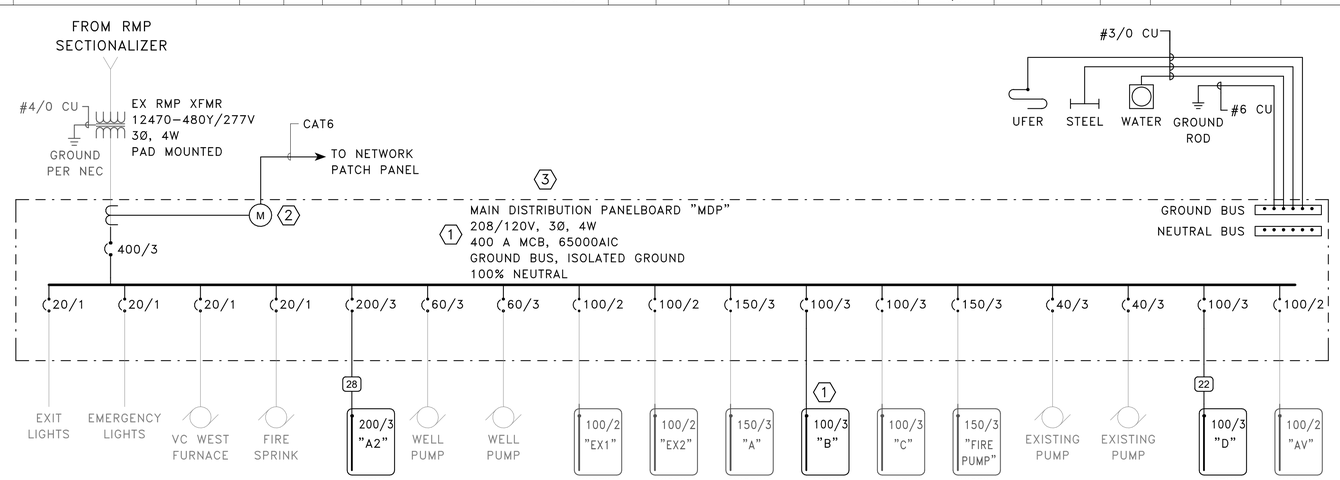
EQUIPMENT SCHEDULE

EQUIPMENT SCHEDULE KEY
- E – DIVISION 26
- Q – FURNISHED WITH EQUIPMENT
- * – COORDINATE WITH THE DIVISION 23 TEMPERATURE CONTROL INSTALLER
- ** – AUTOMATIC CONTROL WIRING BY DIVISION 23

NOTES:
1. NEMA 3R
2. TOGGLE SWITCH W/ THERMAL OVERLOAD.
3. PROVIDE FUSED DISCONNECT ELEVATOR POWER MODULE WITH SHUNT TRIP.
4. CONTRACTOR TO PERFORM FINAL CONNECTION TO LINE VOLTAGE THERMOSTATS.
5. TOGGLE SWITCH W/BACNET INTERFACE.
6. INDOOR UNITS FED FROM OUTDOOR UNIT. PROVIDE DISCONNECTS FOR BOTH.
7. PROVIDE SWITCH WITH BACNET MS/TP CAPABILITY.
8. PROVIDE LABEL ON DISCONNECT "DISCONNECT OUTDOOR UNIT PRIOR TO INDOOR."
9. LINE VOLTAGE THERMOSTAT ON WALL.
10. PROVIDE EXPLOSION PROOF DEVICES AND WIRING METHODS. PROVIDE DUAL-REDUNDANT 100% RATED VFD'S FOR AIR HANDLER.
11. PROVIDE MANUAL STARTER WITH THERMAL OVERLOAD AND RELAY FOR ATC/BAS CONTROL.
12.

GENERAL NOTES:
1. WHERE DISCONNECTS, STARTERS, OR VFCs ARE BEING PROVIDED BY ELECTRICAL CONTRACTOR, LOCATE EQUIPMENT IN ACCESSIBLE LOCATION, SUCH THAT IT IS WITHIN SITE OF THE MECHANICAL EQUIPMENT IT IS SERVING, AND COMPLIES WITH N.E.C. REQUIRED CLEARANCES.

			LOAD DATA								OVERCURRENT PROTECTION			DISCONNECT			STARTER										
MARK	QTY	ITEM DESCRIPTION	HP	kW	MCA	FLA	VOLT	PH	Hz	WIRE AND CONDUIT SIZE	FURN BY	DEVICE	LOCATION	FURN BY	DEVICE	LOCATION	FURN BY	DEVICE	SIZES	SELECTOR SWITCH	PILOT LAMP	NORMALLY OPEN CONTACT	NORMALLY CLOSED CONTACT	PHASE FAILURE RELAY	NOTES	MARK
(AC-1)	1	MINI-SPLIT FAN COIL UNIT	–	0	–	0	208	3	60	2 #12, #12 GR, 0.75" CND	E	–	A2	E	THERMAL SWITCH	ADJ TO EQUIP	Q	–	–	–	–	–	–	–		(AC-1)
(BS-1)	1	BRANCH SELECTOR	–	0.10	–	0.5	208	1	60	2 #12, #12 GR, 0.75" CND	E	20/2 CB	A2	E	THERMAL SWITCH	ADJ TO EQUIP	Q	–	–	–	–	–	–	–		(BS-1)
(CU-1A)	1	CONDENSING UNIT	–	6.5	–	18	208	3	60	3 #10, #10 GR, 0.75" CND	E	30/3 CB	A2	E	30A/3P NF	ADJ TO EQUIP	Q	–	–	–	–	–	–	–		(CU-1A)
(CU-1B)	1	CONDENSING UNIT	–	6.5	–	18	208	3	60	3 #10, #10 GR, 0.75" CND	E	30/3 CB	A2	E	30A/3P NF	ADJ TO EQUIP	Q	–	–	–	–	–	–	–		(CU-1B)
(CU-2)	1	CONDENSING UNIT	–	6.5	–	18	208	3	60	3 #10, #10 GR, 0.75" CND	E	30/3 CB	D	E	30A/3P NF	ADJ TO EQUIP	Q	–	–	–	–	–	–	–		(CU-2)
(CU-4)	1	CONDENSING UNIT	–	3.5	–	17	208	1	60	2 #10, #10 GR, 0.75" CND	E	25/2 CB	D	E	30A/2P NF	ADJ TO EQUIP	Q	–	–	–	–	–	–	–		(CU-4)
(CU-5)	1	CONDENSING UNIT	–	6.5	–	18	208	3	60	3 #10, #10 GR, 0.75" CND	E	30/3 CB	D	E	30A/3P NF	ADJ TO EQUIP	Q	–	–	–	–	–	–	–		(CU-5)
(EF-1)	1	EXHAUST FAN	–	0.023	–	0.4	120	1	60	2 #12, #12 GR, 0.75" CND	E	20/1 CB	A2	E	THERMAL SWITCH	ADJ TO EQUIP	Q	–	–	–	–	–	–	–		(EF-1)
(F-1A)	1	FURNACE	1	1.5	–	13.3	120	1	60	2 #12, #12 GR, 0.75" CND	E	20/1 CB	A2	E	THERMAL SWITCH	ADJ TO EQUIP	Q	–	–	–	–	–	–	–		(F-1A)
(F-1B)	1	FURNACE	1	1.5	–	13.3	120	1	60	2 #12, #12 GR, 0.75" CND	E	20/1 CB	A2	E	THERMAL SWITCH	ADJ TO EQUIP	Q	–	–	–	–	–	–	–		(F-1B)
(F-2)	1	FURNACE	1	1.5	–	13.3	120	1	60	2 #12, #12 GR, 0.75" CND	E	20/1 CB	D	E	THERMAL SWITCH	ADJ TO EQUIP	Q	–	–	–	–	–	–	–		(F-2)
(F-3)	1	FURNACE	1/2	1.3	–	11.1	120	1	60	2 #12, #12 GR, 0.75" CND	E	20/1 CB	A2	E	THERMAL SWITCH	ADJ TO EQUIP	Q	–	–	–	–	–	–	–		(F-3)
(F-4)	1	FURNACE	3/4	1.2	–	10.3	120	1	60	2 #12, #12 GR, 0.75" CND	E	20/1 CB	D	E	THERMAL SWITCH	ADJ TO EQUIP	Q	–	–	–	–	–	–	–		(F-4)
(F-5)	1	FURNACE	1	1.5	–	13.3	120	1	60	2 #12, #12 GR, 0.75" CND	E	20/1 CB	D	E	THERMAL SWITCH	ADJ TO EQUIP	Q	–	–	–	–	–	–	–		(F-5)
(FCU-1)	1	FAN COIL UNIT	–	0.16	–	0.8	208	1	60	2 #12, #12 GR, 0.75" CND	E	20/2 CB	A2	E	THERMAL SWITCH	ADJ TO EQUIP	Q	–	–	–	–	–	–	–		(FCU-1)
(FCU-2)	1	FAN COIL UNIT	–	0.50	–	2.4	208	1	60	2 #12, #12 GR, 0.75" CND	E	20/2 CB	A2	E	THERMAL SWITCH	ADJ TO EQUIP	Q	–	–	–	–	–	–	–		(FCU-2)
(FCU-3)	1	FAN COIL UNIT	–	0.16	–	0.8	208	1	60	2 #12, #12 GR, 0.75" CND	E	20/2 CB	A2	E	THERMAL SWITCH	ADJ TO EQUIP	Q	–	–	–	–	–	–	–		(FCU-3)
(FCU-4)	1	FAN COIL UNIT	–	0.36	–	1.7	208	1	60	2 #12, #12 GR, 0.75" CND	E	20/2 CB	A2	E	THERMAL SWITCH	ADJ TO EQUIP	Q	–	–	–	–	–	–	–		(FCU-4)
(FCU-5)	1	FAN COIL UNIT	–	0.50	–	2.4	208	1	60	2 #12, #12 GR, 0.75" CND	E	20/2 CB	A2	E	THERMAL SWITCH	ADJ TO EQUIP	Q	–	–	–	–	–	–	–		(FCU-5)
(MCU-1)	1	MINI-SPLIT CONDENSING UNIT	–	2.3	–	11	208	1	60	2 #10, #10 GR, 0.75" CND	E	25/2 CB	A2	E	30A/2P NF	ADJ TO EQUIP	Q	–	–	–	–	–	–	–	6	(MCU-1)
(ODU-1)	1	OUTDOOR UNIT	–	9.50	–	38	208	3	60	3 #4, #8 GR, 1.25" CND	E	60/3 CB	A2	E	60A/3P FRS-50	ADJ TO EQUIP	Q	–	–	–	–	–	–	–		(ODU-1)



A2 / EP6.1 ONE-LINE DIAGRAM
SCALE: NTS

GENERAL SHEET NOTES

1. PROVIDE NEMA 3R ENCLOSURES FOR EQUIPMENT LOCATED OUTDOORS. REFER TO PLANS FOR EQUIPMENT LOCATIONS.
2. REFER TO PLANS FOR CONSTRAINTS ON PHYSICAL DIMENSIONS AND CLEARANCE REQUIREMENTS OF EQUIPMENT. PROVIDE EQUIPMENT DIMENSIONS THAT FALL WITHIN THE CONSTRAINTS OF EACH SPECIFIC LOCATION.
3. CONTRACTOR SHALL PROVIDE NEW TYPED WRITTEN PANEL SCHEDULES FOR ALL NEW AND EXISTING PANELS.

SHEET KEYNOTES

1. EXISTING PANEL TO BE REMOVED AND REPLACED WITH SAME SIZE PANEL.
2. PROVIDE SHARK 250 METER. PROVIDE NEW NETWORK CONNECTION FROM METER PATCH PANEL WITH CA6 CABLE.
3. PROVIDE NEW TYPED WRITTEN SCHEDULES FOR ALL NEW AND EXISTING PANELS FOR EVERY NEW AND EXISTING CIRCUIT. PROVIDE CIRCUIT LABEL ON EVERY ELECTRICAL DEVICE WITH THE CIRCUIT PANEL AND NUMBER.

LICENSED PROFESSIONAL ENGINEER No. 7258080 SPENCER C. LITTLE 04-21-2023 STATE OF UTAH

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	S. LITTLE J. KUEHN TECH. REVIEW: E. BEST DATE: 04/19/2023	EP6.1	ONE-LINE DIAGRAM GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 / 175345 PMIS/PKG NO. 308441 SHEET 97 OF 113

DISTRIBUTION PANEL "MDP"

VOLTS/PHASE/WIRE:	MAIN SIZE & TYPE:	LOCATION:	NOTES:
120/208V ,3 PH, 4 WIRE	400 AMPERE MAIN	LIBRARY 114	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR — AIC RATING: 65000

CKT NO	OCP AMP	OCP POLE	LOAD (kVA) LTG	LOAD (kVA) PWR	LOAD (kVA) CO	PANEL / EQUIPMENT	PHASE LOAD (kVA) A	PHASE LOAD (kVA) B	PHASE LOAD (kVA) C
1	20	1	--	--	--	EXIT LIGHTS	0.0		
2	20	1	--	--	--	EMERGENCY LIGHTS	0.0		
3	20	1	--	--	--	VC WEST FURNACE	0.0		
4	20	1	--	--	--	FIRE SPRINKLERS	0.0		
5	200	3	0.0	30.9	0.5	A2	9.9	11.9	9.7
6	60	3	--	--	--	WELL PUMP	0.0	0.0	0.0
7	60	3	--	--	--	WELL PUMP	0.0	0.0	0.0
8	100	2	--	--	--	EX1	0.0	0.0	
9	100	2	--	--	--	EX2	0.0	0.0	
10	150	3	0.0	0.0	0.0	A	0.0	0.0	0.0
11	100	3	0.0	0.0	0.0	B	0.0	0.0	0.0
12	100	3	0.0	0.0	0.0	C	0.0	0.0	0.0
13	150	3	--	--	--	FIRE PUMP	0.0	0.0	0.0
14	40	3	--	--	--	EXISTING PUMP	0.0	0.0	0.0
15	40	3	--	--	--	EXISTING PUMP	0.0	0.0	0.0
16	100	3	0.0	23.4	3.8	D	9.4	8.4	9.3
17	100	2	--	--	--	AV	0.0	0.0	
18	100	1	--	--	--	SPACE	0.0		
TOTALS:						CONNECTED kVA PER PHASE	19.4	20.3	19.0
						CONNECTED AMPS PER PHASE	162	170	158
						TOTAL CONNECTED kVA =	58.6		
						AVERAGE CONNECTED AMPS PER PHASE =	163		

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING & CONTINUOUS LOADS:
RECEPTACLES: 4.3 kVA @ 100% = 4.3 kVA
ALL OTHER LOADS @ 100%: 54.3 kVA

- 100% CONNECTED LOAD PLUS 25%
- FIRST 10kVA @ 100%, REMAINDER @ 50%
- MOTOR TOTALS INCLUDED IN ALL OTHER LOADS WITH LARGEST MOTOR CALCULATED @ 125% PER...

TOTAL DIVERSIFIED kVA = 61.0
AVERAGE AMPS PER PHASE = 169

EXISTING PANEL: "A"

VOLTS/PHASE/WI...	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
120/208V, 3 PH...	22" W x 6" D, BOLT-ON	225 AMPERE MAIN LUGS	LIBRARY 114	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR — AIC RATING: 0

CKT NO	OCP AMP	OCP POLE	LOAD (kVA) LTG	LOAD (kVA) PWR	LOAD (kVA) CO	DESCRIPTION	PHASE LOAD A	PHASE LOAD B	PHASE LOAD C	DESCRIPTION	LOAD (kVA) CO	LOAD (kVA) PWR	LOAD (kVA) LTG	OCP POLE	OCP AMP	CKT NO
1	20	1	--	--	--	EXISTING LOAD	0.0 0.0			EXISTING LOAD	--	--	--	1	20	2
3	20	1	--	--	--	EXISTING LOAD		0.0 0.0		EXISTING LOAD	--	--	--	1	20	4
5	20	1	--	--	--	EXISTING LOAD			0.0 0.0	EXISTING LOAD	--	--	--	1	20	6
7	20	1	--	--	--	EXISTING LOAD	0.0 0.0			EXISTING LOAD	--	--	--	1	20	8
9	20	1	--	--	--	EXISTING LOAD		0.0 0.0		EXISTING LOAD	--	--	--	1	20	10
11	20	1	--	--	--	EXISTING LOAD			0.0 0.0	EXISTING LOAD	--	--	--	1	20	12
13	20	1	--	--	--	EXISTING LOAD	0.0 0.0			EXISTING LOAD	--	--	--	1	20	14
15	20	1	--	--	--	EXISTING LOAD		0.0 0.0		EXISTING LOAD	--	--	--	1	20	16
17	20	1	--	--	--	EXISTING LOAD			0.0 0.0	EXISTING LOAD	--	--	--	1	20	18
19	20	1	--	--	--	EXISTING LOAD	0.0 0.0			EXISTING LOAD	--	--	--	1	20	20
21	20	1	--	--	--	EXISTING LOAD		0.0 0.0		EXISTING LOAD	--	--	--	1	20	22
23	20	1	--	--	--	EXISTING LOAD			0.0 0.0	EXISTING LOAD	--	--	--	1	20	24
25	20	1	--	--	--	EXISTING LOAD	0.0 0.0			EXISTING LOAD	--	--	--	1	20	26
27	20	1	--	--	--	EXISTING LOAD		0.0 0.0		EXISTING LOAD	--	--	--	1	20	28
29	20	1	--	--	--	EXISTING LOAD			0.0 0.0	EXISTING LOAD	--	--	--	1	20	30
31	20	1	--	--	--	EXISTING LOAD	0.0 0.0			EXISTING LOAD	--	--	--	1	20	32
33	20	1	--	--	--	EXISTING LOAD		0.0 0.0		EXISTING LOAD	--	--	--	1	20	34
35	--	1	--	--	--	SPACE			-- 0.0	EXISTING LOAD	--	--	--	1	20	36
37	--	1	--	--	--	SPACE	-- 0.0			EXISTING LOAD	--	--	--	1	20	38
39	--	1	--	--	--	SPACE		-- --		SPACE	--	--	--	1	--	40
41	--	1	--	--	--	SPACE			-- --	SPACE	--	--	--	1	--	42
TOTALS:						CONNECTED kVA PER PHASE	0	0	0	CONNECTED TOTAL kVA = 0						
						CONNECTED AMPS PER PHASE	0	0	0	AVERAGE CONNECTED AMPS PER PHASE = 0						

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING & CONTINUOUS...
RECEPTACLES:
ALL OTHER LOADS @ 100% : 0.0 kVA

- 100% CONNECTED LOAD PLUS 25%
- FIRST 10kVA @ 100%, REMAINDER @ 50%
- MOTOR TOTALS INCLUDED IN ALL OTHER LOADS...

DIVERSIFIED TOTAL kVA = 0
AVERAGE AMPS PER PHA... 0

EXISTING PANEL: "AV"

VOLTS/PHASE/WI...	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
120/240 V, 1 P...	22" W x 6" D, BOLT-ON	100 AMPERE MAIN LUGS	Room 127	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR — AIC RATING: 0

CKT NO	OCP AMP	OCP POLE	LOAD (kVA) LTG	LOAD (kVA) PWR	LOAD (kVA) CO	DESCRIPTION	PHASE LOAD A	PHASE LOAD B	DESCRIPTION	LOAD (kVA) CO	LOAD (kVA) PWR	LOAD (kVA) LTG	OCP POLE	OCP AMP	CKT NO
1	20	1	--	--	--	EXISTING LOAD	0.0 0.0		EXISTING LOAD	--	--	--	1	20	2
3	20	1	--	--	--	EXISTING LOAD		0.0 0.0	EXISTING LOAD	--	--	--	1	20	4
5	20	1	--	--	--	EXISTING LOAD	0.0 0.0		EXISTING LOAD	--	--	--	1	20	6
7	20	1	--	--	--	EXISTING LOAD		0.0 0.0	EXISTING LOAD	--	--	--	1	20	8
9	15	1	--	--	--	EXISTING LOAD	0.0 0.0		EXISTING LOAD	--	--	--	1	15	10
11	15	1	--	--	--	EXISTING LOAD		0.0 0.0	EXISTING LOAD	--	--	--	1	15	12
13	--	1	--	--	--	SPACE	-- --		SPACE	--	--	--	1	--	14
15	--	1	--	--	--	SPACE		-- --	SPACE	--	--	--	1	--	16
17	--	1	--	--	--	SPACE	-- --		SPACE	--	--	--	1	--	18
19	--	1	--	--	--	SPACE		-- --	SPACE	--	--	--	1	--	20
21	--	1	--	--	--	SPACE	-- --		SPACE	--	--	--	1	--	22
23	--	1	--	--	--	SPACE		-- --	SPACE	--	--	--	1	--	24
TOTALS:						CONNECTED kVA PER PHASE	0	0	CONNECTED TOTAL kVA = 0						
						CONNECTED AMPS PER PHASE	0	0	AVERAGE CONNECTED AMPS PER PHASE = 0						

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING & CONTINUOUS...
RECEPTACLES:
ALL OTHER LOADS @ 100% : 0.0 kVA

- 100% CONNECTED LOAD PLUS 25%
- FIRST 10kVA @ 100%, REMAINDER @ 50%
- MOTOR TOTALS INCLUDED IN ALL OTHER LOADS...

DIVERSIFIED TOTAL kVA = 0
AVERAGE AMPS PER PHA... 0

PANEL: "B"

VOLTS/PHASE/WI...	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
120/208V, 3 PH...	22" W x 6" D, BOLT-ON	225 AMPERE MAIN LUGS	FAN ROOM 108	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR — AIC RATING: 10000

CKT NO	OCP AMP	OCP POLE	LOAD (kVA) LTG	LOAD (kVA) PWR	LOAD (kVA) CO	DESCRIPTION	PHASE LOAD A	PHASE LOAD B	PHASE LOAD C	DESCRIPTION	LOAD (kVA) CO	LOAD (kVA) PWR	LOAD (kVA) LTG	OCP POLE	OCP AMP	CKT NO
1								0.0		EXISTING LOAD	--	--	--	1	20	2
3	20	2	--	--	--	EXISTING LOAD		0.0 0.0		EXISTING LOAD	--	--	--	1	20	4
5	--	--	--	--	--	--			0.0 0.0	EXISTING LOAD	--	--	--	1	20	6
7	20	1	--	--	--	EXISTING LOAD	0.0 0.0			EXISTING LOAD	--	--	--	1	20	8
9	20	1	--	--	--	EXISTING LOAD		0.0 0.0		EXISTING LOAD	--	--	--	1	20	10
11	20	1	--	--	--	EXISTING LOAD			0.0 0.0	EXISTING LOAD	--	--	--	1	20	12
13	20	1	--	--	--	EXISTING LOAD	0.0 0.0			EXISTING LOAD	--	--	--	1	20	14
15	20	1	--	--	--	EXISTING LOAD		0.0 0.0		EXISTING LOAD	--	--	--	1	20	16
17	20	1	--	--	--	EXISTING LOAD			0.0 0.0	EXISTING LOAD	--	--	--	1	20	18
19	20	1	--	--	--	EXISTING LOAD	0.0 0.0			EXISTING LOAD	--	--	--	1	20	20
21	20	1	--	--	--	EXISTING LOAD		0.0 0.0		EXISTING LOAD	--	--	--	1	20	22
23	20	1	--	--	--	EXISTING LOAD			0.0 0.0	EXISTING LOAD	--	--	--	1	20	24
25	20	1	--	--	--	EXISTING LOAD	0.0 0.0			EXISTING LOAD	--	--	--	1	20	26
27	20	1	--	--	--	EXISTING LOAD		0.0 0.0		EXISTING LOAD	--	--	--	1	20	28
29	20	1	--	--	--	EXISTING LOAD			0.0 0.0	EXISTING LOAD	--	--	--	1	20	30
31	20	1	--	--	--	EXISTING LOAD	0.0 0.0			EXISTING LOAD	--	--	--	2	50	32
33	20	1	--	--	--	EXISTING LOAD		0.0 0.0		--	--	--	--	--	--	34
35									0.0	EXISTING LOAD	--	--	--	2	30	36
37							0.0			--	--	--	--	--	--	38
39																40
41																42
TOTALS:						CONNECTED kVA PER PHASE	0	0	0	CONNECTED TOTAL kVA = 0						
						CONNECTED AMPS PER PHASE	0	0	0	AVERAGE CONNECTED AMPS PER PHASE = 0						

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING & CONTINUOUS...
RECEPTACLES:
ALL OTHER LOADS @ 100% : 0.0 kVA

- 100% CONNECTED LOAD PLUS 25%
- FIRST 10kVA @ 100%, REMAINDER @ 50%
- MOTOR TOTALS INCLUDED IN ALL OTHER LOADS...

DIVERSIFIED TOTAL kVA = 0
AVERAGE AMPS PER PHA... 0

LICENSED PROFESSIONAL ENGINEER
No. 7258080
SPENCER C. LITTLE
04-21-2023
STATE OF UTAH

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	S. LITTLE DADD J. KUEHN TECH. REVIEW: E. BEST DATE: 04/19/2023	EP6.2	PANEL SCHEDULES GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 98 OF 113

EXISTING PANEL: "C"

VOLTS/PHASE/WI...	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
120/208V, 3 PH...	22" W x 6" D, BOLT-ON	225 AMPERE MAIN LUGS		SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR — AIC RATING: 0

CKT	OCP		LOAD (kVA)				PHASE LOAD							LOAD (kVA)			OCP		CKT
NO	AMP	POLE	LTG	PWR	CO	DESCRIPTION	A		B		C		DESCRIPTION	CO	PWR	LTG	POLE	AMP	NO
1																			2
3																			4
5																			6
7																			8
9																			10
11																			12
13																			14
15																			16
17																			18
19																			20
21																			22
23																			24
25																			26
27																			28
29																			30
31																			32
33																			34
35																			36
37																			38
39																			40
41																			42

TOTALS: CONNECTED kVA PER PHASE 0 0 0 — CONNECTED TOTAL kVA = 0
CONNECTED AMPS PER PHASE 0 0 0 — AVERAGE CONNECTED AMPS PER PHASE = 0

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING & CONTINUOUS... — 100% CONNECTED LOAD PLUS 25% — DIVERSIFIED TOTAL kVA = 0
RECEPTACLES: — FIRST 10kVA @ 100%, REMAINDER @ 50% — AVERAGE AMPS PER PHA... 0
ALL OTHER LOADS @ 100% : 0.0 kVA — MOTOR TOTALS INCLUDED IN ALL OTHER LOADS...

PANEL: "D"

VOLTS/PHASE/WI...	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
120/208V, 3 PH...	22" W x 6" D, BOLT-ON	100 AMPERE MAIN LUGS	FAN ROOM 110	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR — AIC RATING: 0

CKT	OCP		LOAD (kVA)				PHASE LOAD							LOAD (kVA)			OCP		CKT
NO	AMP	POLE	LTG	PWR	CO	DESCRIPTION	A		B		C		DESCRIPTION	CO	PWR	LTG	POLE	AMP	NO
1	30	3	0.0	6.5	0.0	CU-5 UTIL. ENCLOSURE 131	2.2	1.8					CU-4 EXTERIOR	0.0	3.5	0.0	2	25	2
3	--	--	--	--	--	--			2.2	1.8			--	--	--	--	--	--	4
5	--	--	--	--	--	--					2.2	1.5	F-5 FAN ROOM 108	0.0	1.5	0.0	1	20	6
7	20	1	0.0	1.2	0.0	F-4 FAN ROOM 110	1.2	0.0					SPARE	--	--	--	1	20	8
9	20	1	--	--	--	SPARE			0.0	0.0			SPARE	--	--	--	1	20	10
11	20	1	0.0	0.4	0.0	ADA POWER ENTRY 100					0.4	0.2	CO RECEP. & ORIENT. 101	0.2	0.0	0.0	1	20	12
13	20	1	0.0	0.0	1.1	CO GATHERING SPACE 103	1.1	0.7					CO EXHIBITS 102	0.7	0.0	0.0	1	20	14
15	20	1	0.0	0.0	0.5	CO RECEP. & ORIENT. 101			0.5	0.7			CO EXHIBITS 102	0.7	0.0	0.0	1	20	16
17	20	1	0.0	0.0	0.5	CO ROOM 105, 102					0.5	0.2	ADA POWER ROOM 102	0.0	0.2	0.0	1	20	18
19	20	1	0.0	0.2	0.0	SHADES RECEPTION 101	0.2	0.2					ROOM 102	0.0	0.2	0.0	1	20	20
21	20	1	0.0	0.5	0.0	SHADES STORE 104			0.5	0.5			SHADES EXHIBITS 102	0.0	0.5	0.0	1	20	22
23	20	1	0.0	0.7	0.0	SHADES OFFICES 109					0.7	1.5	F-2 FAN ROOM 108	0.0	1.5	0.0	1	20	24
25	20	3	0.0	6.5	0.0	CU-2 UTIL ENCLOSURE	2.2	0.0					SPARE	--	--	--	1	20	26
27	--	--	--	--	--	--			2.2	0.0			SPARE	--	--	--	1	20	28
29	--	--	--	--	--	--					2.2	0.0	SPARE	--	--	--	1	20	30
31	20	1	--	--	--	SPARE	0.0	0.0					SPARE	--	--	--	1	20	32
33	20	1	--	--	--	SPARE			0.0	0.0			SPARE	--	--	--	1	20	34
35	20	1	--	--	--	SPARE					0.0	0.0	SPARE	--	--	--	1	20	36
37	20	1	--	--	--	SPARE	0.0	0.0					SPARE	--	--	--	1	20	38
39	20	1	--	--	--	SPARE			0.0	0.0			SPARE	--	--	--	1	20	40
41	20	1	--	--	--	SPARE					0.0	0.0	SPARE	--	--	--	1	20	42

TOTALS: CONNECTED kVA PER PHASE 9 8 9 — CONNECTED TOTAL kVA = 27
CONNECTED AMPS PER PHASE 80 70 79 — AVERAGE CONNECTED AMPS PER PHASE = 75

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING & CONTINUOUS... — 100% CONNECTED LOAD PLUS 25% — DIVERSIFIED TOTAL kVA = 29
RECEPTACLES: 3.8 kVA @ 100% = ... — FIRST 10kVA @ 100%, REMAINDER @ 50% — AVERAGE AMPS PER PHA... 80
ALL OTHER LOADS @ 100% : 25.0 kVA — MOTOR TOTALS INCLUDED IN ALL OTHER LOADS...

PANEL: "A2"

VOLTS/PHASE/WI...	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
120/208V, 3 PH...	22" W x 6" D, BOLT-ON	200 AMPERE MAIN LUGS	LIBRARY 114	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR — AIC RATING: 10000

CKT	OCP		LOAD (kVA)				PHASE LOAD							LOAD (kVA)			OCP		CKT
NO	AMP	POLE	LTG	PWR	CO	DESCRIPTION	A		B		C		DESCRIPTION	CO	PWR	LTG	POLE	AMP	NO
1	50	3	0.0	9.5	0.0	ODU-1/AC-1 ROOM 118	3.2	0.1					BS-1 STORAGE 121	0.0	0.1	0.0	2	20	2
3	--	--	--	--	--	--			3.2	0.1			--	--	--	--	--	--	4
5	--	--	--	--	--	--					3.2	0.8	FCU-1,2,3,4,5	0.0	1.7	0.0	2	20	6
7	20	1	0.0	0.0	0.0	EF-1 LAV 119	0.0	0.8					--	--	--	--	--	--	8
9	20	1	0.0	1.3	0.0	F-3 PUMP ROOM 117			1.3	1.2			MCU-1 EXTERIOR	0.0	2.3	0.0	2	20	10
11	20	1	--	--	--	SPARE					0.0	1.2	--	--	--	--	--	--	12
13	20	1	--	--	--	SPARE	0.0	0.0					SPARE	--	--	--	1	20	14
15	20	1	0.0	0.0	0.4	CO ROOM 126, 125			0.4	0.0			SPARE	--	--	--	1	20	16
17	20	1	0.0	0.0	0.2	CO LAV 119					0.2	0.0	SPARE	--	--	--	1	20	18
19	20	3	0.0	6.5	0.0	CU-1A EXTERIOR	2.2	0.0					SPARE	--	--	--	1	20	20
21	--	--	--	--	--	--			2.2	0.0			SPARE	--	--	--	1	20	22
23	--	--	--	--	--	--					2.2	0.0	SPARE	--	--	--	1	20	24
25	20	3	0.0	6.5	0.0	CU-1B EXTERIOR	2.2	0.0					SPARE	--	--	--	1	20	26
27	--	--	--	--	--	--			2.2	0.0			SPARE	--	--	--	1	20	28
29	--	--	--	--	--	--					2.2	0.0	SPARE	--	--	--	1	20	30
31	20	1	0.0	1.5	0.0	F-1A FAN ROOM 110	1.5	0.0					SPARE	--	--	--	1	20	32
33	20	1	0.0	1.5	0.0	F-1B FAN ROOM 110			1.5	0.0			SPARE	--	--	--	1	20	34
35	20	1	--	--	--	SPARE					0.0	0.0	SPARE	--	--	--	1	20	36
37	20	1	--	--	--	SPARE	0.0	0.0					SPARE	--	--	--	1	20	38
39	20	1	--	--	--	SPARE			0.0	0.0			SPARE	--	--	--	1	20	40
41	20	1	--	--	--	SPARE					0.0	0.0	SPARE	--	--	--	1	20	42

TOTALS: CONNECTED kVA PER PHASE 10 12 10 — CONNECTED TOTAL kVA = 31
CONNECTED AMPS PER PHASE 83 99 81 — AVERAGE CONNECTED AMPS PER PHASE = 87

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING & CONTINUOUS... — 100% CONNECTED LOAD PLUS 25% — DIVERSIFIED TOTAL kVA = 34
RECEPTACLES: 0.5 kVA @ 100% = ... — FIRST 10kVA @ 100%, REMAINDER @ 50% — AVERAGE AMPS PER PHA... 94
ALL OTHER LOADS @ 100% : 33.3 kVA — MOTOR TOTALS INCLUDED IN ALL OTHER LOADS...

LICENSED PROFESSIONAL ENGINEER
No. 7258080
SPENCER C. LITTLE
04-21-2023
STATE OF UTAH

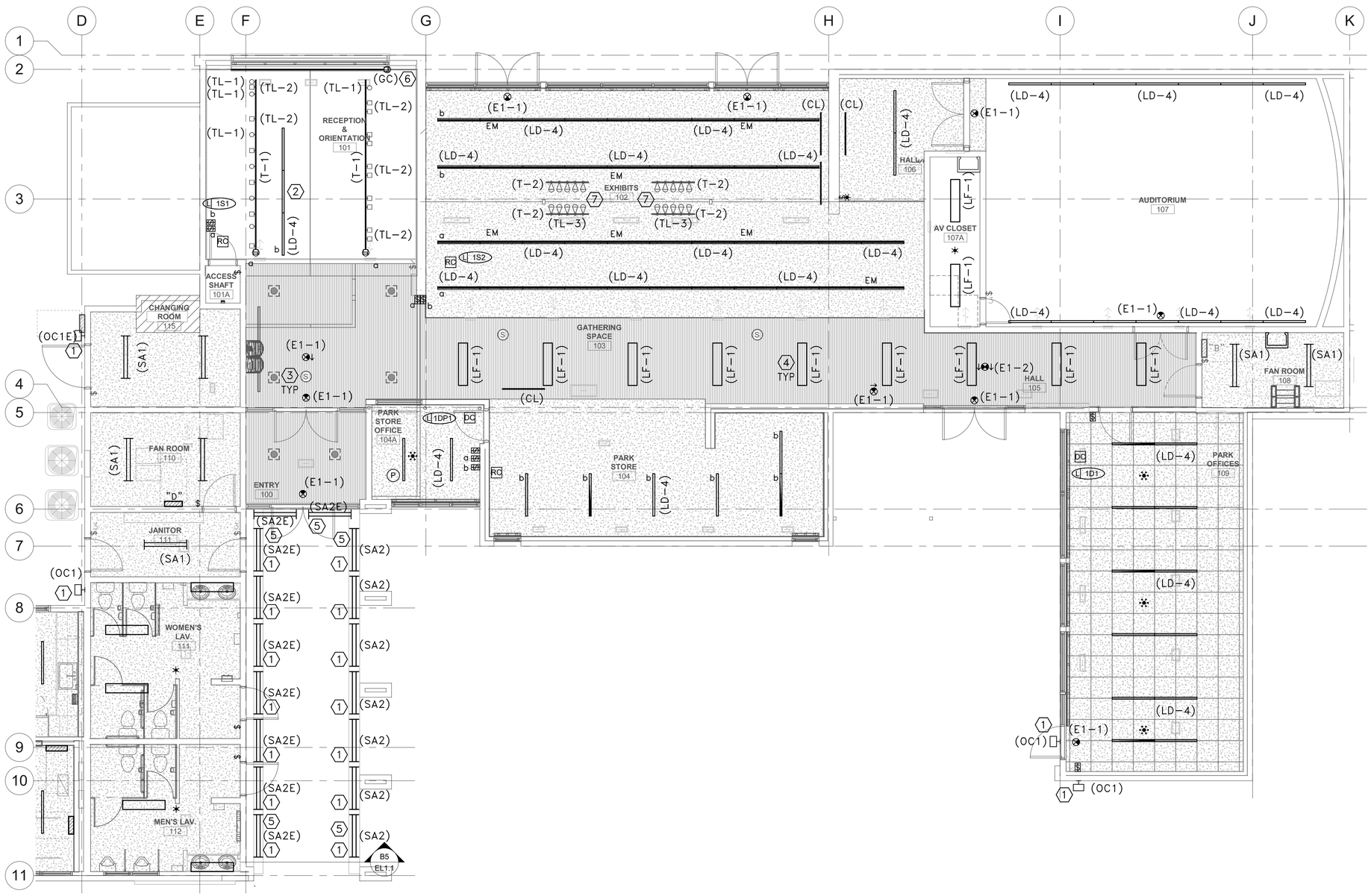
A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	S. LITTLE CADD J. KUEHN TECH. REVIEW: E. BEST DATE: 04/19/2023	EP6.3	PANEL SCHEDULES GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 99 OF 113

GENERAL SHEET NOTES

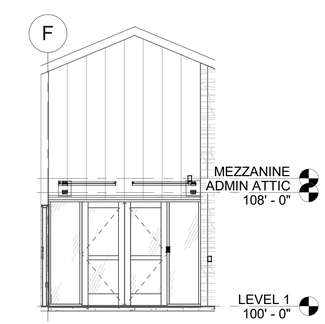
1. REFER TO POWER PLANS FOR CASE LIGHTING AND CONTROLS.
2. EXTERIOR FIXTURES TO BE DARK–SKY FRIENDLY.
3. ALL NEW LIGHTING TO BE CIRCUITED TO EXISTING LIGHTING CIRCUITS.
4. ALL EXIT SIGNS SHALL BE CIRCUITED TOGETHER ON A DEDICATED UN–SWITCHED LIGHTING CIRCUIT.

SHEET KEYNOTES

1. LIGHTING FOR BID OPTION #1.
2. CENTER LIGHT FIXTURES OVER RECEPTION DESK, REFER TO ARCHITECTS PLANS FOR LOCATION.
3. EXISTING FIXTURES IN EXISTING WOOD SLAT CEILING TO REMAIN.
4. EXISTING FIXTURES IN EXISTING WOOD SLAT CEILING TO BE REPLACED.
5. MOUNT SA1 FIXTURES FACING UP AND FACING DOWN, REFER TO DETAIL B5 / SHEET EL1.1.
6. COORDINATE (GC) FIXTURE WITH THE DESIGN MINDS.
7. THESE LIGHT FIXTURES ARE PART OF THE EXHIBITS, SHOWN ON PLANS FOR INFORMATION PURPOSES ONLY.

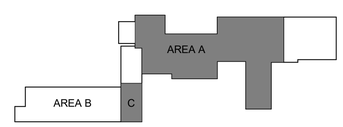


A1 EL1.1 LIGHTING PLAN NEW – AREA A
SCALE: 3/16" = 1'–0"



B5 EL1.1 EXTERIOR ENTRY
SCALE: 3/16" = 1'–0"

4 0 4 8 12
SCALE OF FEET



KEYPLAN

LICENSED PROFESSIONAL ENGINEER No. 7258080 SPENCER C. LITTLE 04-21-2023 STATE OF UTAH

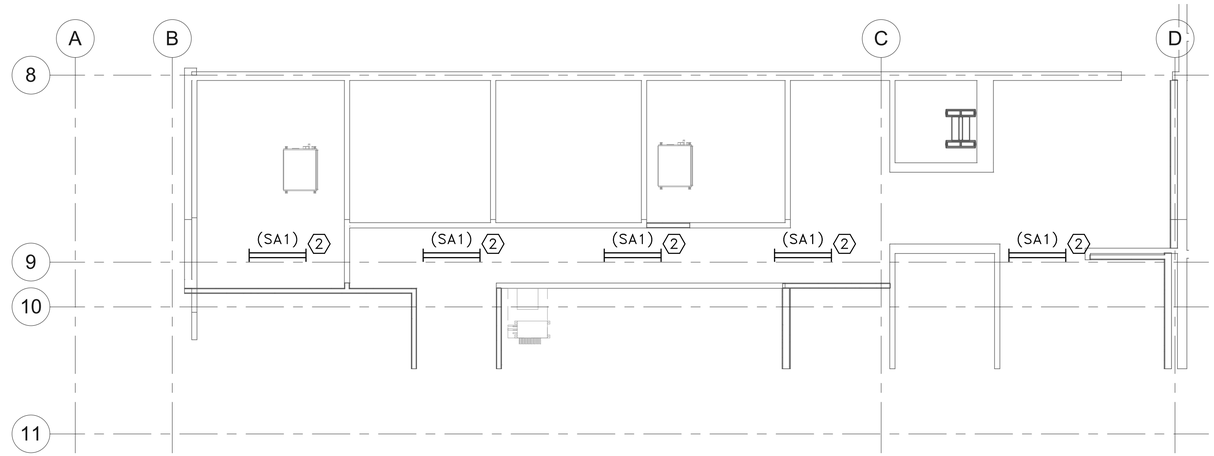
A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	S. LITTLE DADD J. KUEHN TECH. REVIEW: E. BEST DATE: 04/19/2023	EL1.1	LIGHTING PLAN NEW - AREA A GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 100 OF 113

GENERAL SHEET NOTES

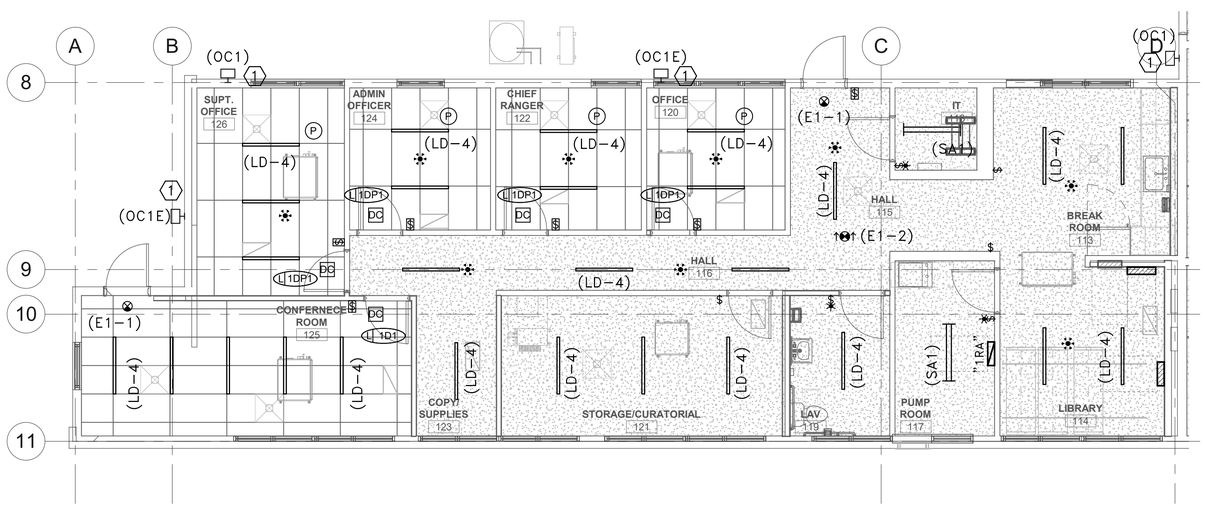
1. REFER TO POWER PLANS FOR CASE LIGHTING AND CONTROLS.
2. EXTERIOR FIXTURES TO BE DARK-SKY FRIENDLY.
3. ALL NEW LIGHTING TO BE CIRCUITED TO EXISTING LIGHTING CIRCUITS.
4. ALL EXIT SIGNS SHALL BE CIRCUITED TOGETHER ON A DEDICATED UN-SWITCHED LIGHTING CIRCUIT.

SHEET KEYNOTES

1. LIGHTING FOR BID OPTION #1.
2. REUSE EXISTING ATTIC CIRCUITING FOR NEW LIGHTING CIRCUIT. THERE ARE TWO CIRCUITS OVER THE PUBLIC RESTROOMS AND ADMINISTRATION AREA THAT MAY BE RE-PURPOSED TO ATTIC LIGHTING.

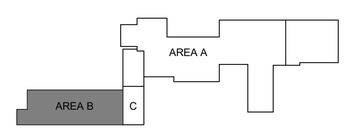


C1 EL1.2 LIGHTING PLAN NEW – AREA B ADD ALTERNATE ATTIC
SCALE: 3/16" = 1'-0"



A1 EL1.2 LIGHTING PLAN NEW – AREA B ADD ALTERNATE
SCALE: 3/16" = 1'-0"

4 0 4 8 12
SCALE OF FEET



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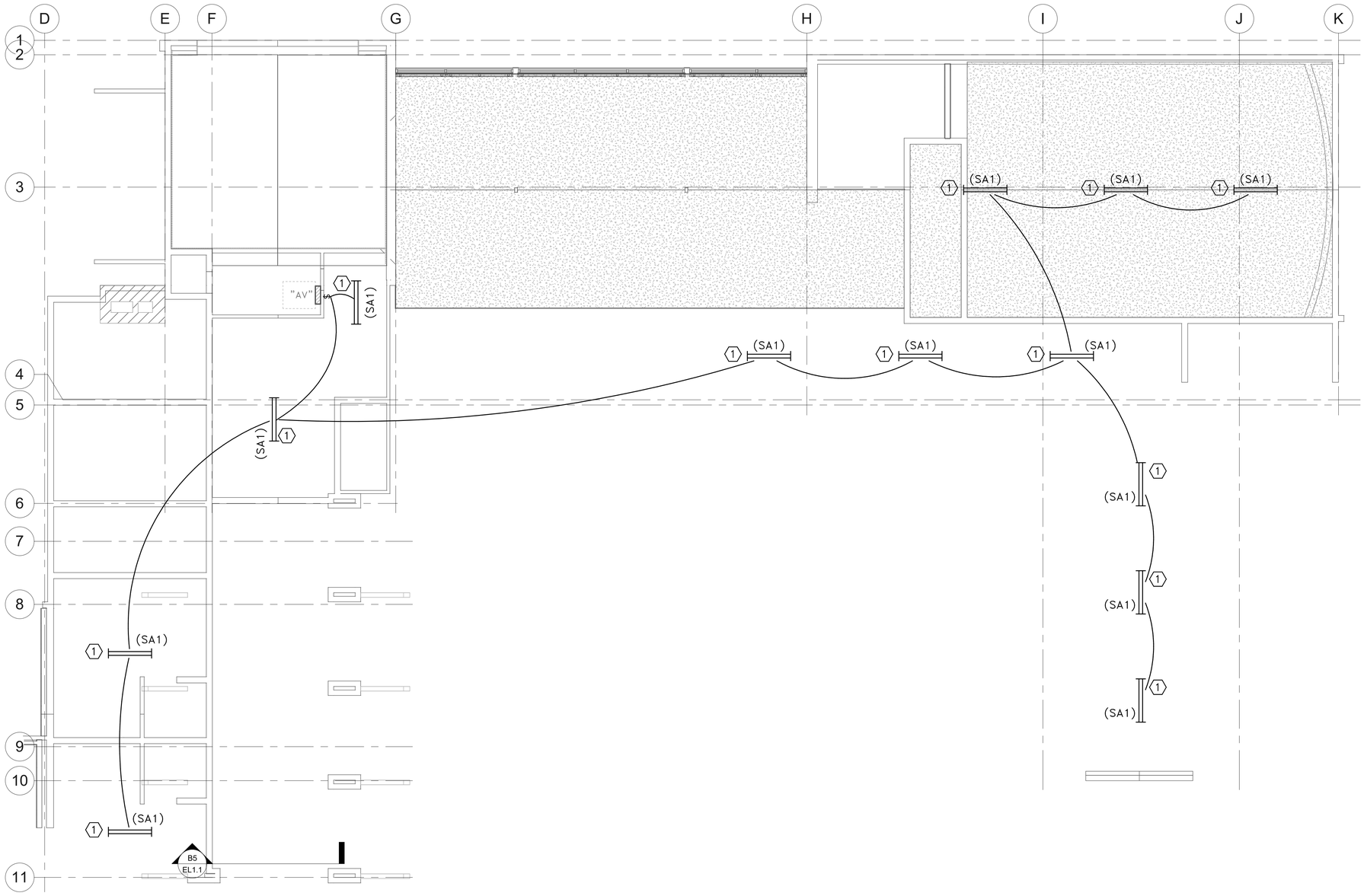


GENERAL SHEET NOTES

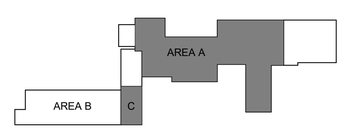
1. REFER TO POWER PLANS FOR CASE LIGHTING AND CONTROLS.
2. EXTERIOR FIXTURES TO BE DARK-SKY FRIENDLY.
3. ALL NEW LIGHTING TO BE CIRCUITED TO EXISTING LIGHTING CIRCUITS.
4. ALL EXIT SIGNS SHALL BE CIRCUITED TOGETHER ON A DEDICATED UN-SWITCHED LIGHTING CIRCUIT.

SHEET KEYNOTES

1. REUSE EXISTING ATTIC CIRCUITING FOR NEW LIGHTING CIRCUIT. THERE ARE TWO CIRCUITS OVER THE PUBLIC RESTROOMS AND ADMINISTRATION AREA THAT MAY BE RE-PURPOSED TO ATTIC LIGHTING.

4 0 4 8 12
SCALE OF FEET

A1 / EL1.3 LIGHTING PLAN NEW – MEZZANINE
SCALE: 3/16" = 1'-0"



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INTERIOR LIGHTING FIXTURE SCHEDULE

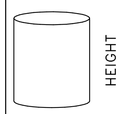
ABBREVIATIONS

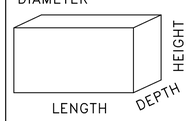
MOUNTING

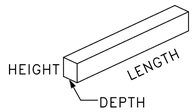
- B – BASE
- C – CEILING
- F – FLANGE
- G – GRID
- P – PENDANT
- PL POLE
- R – RECESSED
- S – SURFACE
- W – WALL

LUMINAIRE OPTIONS

- ARH – AIR RETURN AND HEAT REJECTION
- DL – DAMP LOCATION
- EQC – EARTHQUAKE CLIPS
- F – FUSING
- HLD – HINGED AND LATCHED DOOR
- HS – HOUSE SIDE SHIELD
- PS – PHOTOCELL SWITCH
- QRS – QUARTZ RESTRIKE
- ST – STATIC
- WG – WIRE GUARD
- WL – WET LOCATION







FINISH

- MW – MATTE WHITE
- BL – BLACK
- SL – SILVER
- GL – GOLD
- CL – CLEAR
- PW – PAINTED WHITE
- EA – EXTRUDED ALUMINUM
- S – STEEL
- GS – GALVANIZED STEEL
- C – CAST
- CBA – COLOR BY CALL OUT COLUMN AND FINISH
- SCBA – STANDARD COLOR BY CALL OUT COLUMN AND FINISH
- CCA – CUSTOM COLOR BY CALL OUT COLUMN AND FINISH
- FS 209D – MEETS FEDERAL STANDARD 209D
- TP – THERMALLY PROTECTED
- FL – FLUSH
- R – REGRESS
- M – MITERED

DIFFUSER/LENS

- #A – ACRYLIC #THICK
- #OA – ACRYLIC #THICK (OPAL)
- GC – GLASS (CLEAR)
- GO – GLASS (OPAL)
- GF – GLASS (FROSTED)
- SGL – SOFT GLOW LENS
- HPL – HIGH PERFORMANCE LENS
- DO – DROP OPAL
- CGL – CONVEX GLASS LENS
- S – SATIN LENS

NOTES

1

REFLECTOR

- OP – NONE/OPEN
- SP – SPECULAR
- SS – SEMI–SPECULAR
- D – DIFFUSE (WHITE ENAMEL)
- SC – SPECULAR (COLORED)
- PR – PRISMATIC
- FD – FULL DEPTH
- R REFLECTOR
- DS – DIFFUSE (SEMI SPECULAR) SILVER
- LI – LOW IRIDESCENT
- IR – IRIDESCENT
- SL – SILVER
- GL – GOLD
- CA – CLEAR ALZAK

GENERAL NOTES

1. SUBSTITUTIONS AND/OR EQUAL FIXTURES MUST RECEIVE APPROVAL PRIOR TO BIDDING, THEY MUST BE SUBMITTED TO THE CONTRACTING OFFICER NO LESS THAN 2 WEEKS PRIOR TO BID OPENING.
2. SAMPLES MUST BE PROVIDED FOR ANY AND ALL FIXTURES UPON CONTRACTING OFFICERS REQUEST PRIOR TO RELEASING FIXTURES.
3. ALL FIXTURES SHALL BE LISTED AND APPROVED FOR THEIR INTENDED USE AND LOCATION.
4. VERIFY THE PROPER MOUNTING KITS OR ACCESSORIES TO FACILITATE INSTALLATION AS SHOWN AT EACH LOCATION ON THE DRAWINGS.
5. COMPLY WITH THE "INTERIOR LIGHTING" SECTION OF THE SPECIFICATIONS.
6. REFER TO SPECIFICATIONS FOR IMPORTANT TECHNICAL REQUIREMENTS FOR LIGHTING FIXTURES, DRIVERS, AND LAMPS.
7. ALL LIGHT FIXTURES TO BE EITHER "DLC" OR "LIGHTING FACTS" LISTED OR TO BE APPROVED BY CONTRACTING OFFICER.

		NOMINAL SIZE														MANUFACTURER (CATALOG SERIES)		
ID	DESCRIPTION	LENGTH	DEPTH	HEIGHT	DIAMETER/ APERTURE	MOUNTING	TYPE	COLOR TEMP	CRI	DRIVER CONFIGURATION	VOLTAGE	WATTS	FINISH	FIXTURE LUMENS	OPTIONS	OPTION 1	OPTION 2	TAKEOFF QUANTITY
(CL)	LINEAR LED CASE LIGHTING	VAR	1"	.5"	–	S	–	–		–	120/277	0	–	0	–	LUMINI LLDW52–22–30K–NC–NC	APPROVED EQUAL	4
(E1–1)	UNIVERSAL MOUNT, EDGE–LIT EXIT SIGN	12"	8"	2"		C	LED	GREEN		LED DRIVER	120/277	3	SCBA	100	BATTERY/SELF DIAGNOSTICS	LITHONIA (EDG–CBA–1–G–EL–SD) J	PHILIPS (ER44RLDU1G) S	12
(E1–2)	UNIVERSAL MOUNT, EDGE–LIT EXIT SIGN	12"	8"	2"		C	LED	GREEN		LED DRIVER	120/277	3	SCBA	0	BATTERY/SELF DIAGNOSTICS	LITHONIA (EDG–CBA–2–G–EL–SD) J	PHILIPS (ER44RLDU1G) S	2
(GC)	SURFACE MOUNT LED BACKLIGHT	VAR	1.5"	3/4"	–	S	LED	–		–	120/277	3	–	220	–	GE GEWWPG3P6–30K–A	APPROVED EQUAL	1
(LD–4)	LINEAR COVE	48"	2.25"	4"	–	CS	LED	4000K		LED DRIVER	120/277	35		3000	ST, EQC, HLD	AXIS (BSLED–B2–750–40–SO6–W–UNV–D1–S)	ARCHITECTURAL LIGHTING WORKS	106
(LF–1)	SURFACE MOUNT ILLUMINATED LED PANEL	48"	12"		–	CS	LED	3000K		LED DRIVER(0–10V DIMMER)	120/277	0		0		LITHONIA (CPANL AX4 ALO1 SWW7 M4)	APPROVED EQUAL	11
(OC1)	EXTERIOR WALL MOUNTED LED FIXTURE, DARK SKY FRIENDLY, W/ MOTION SENSOR	17"	10 1/8"	8 1/2"	–	W	LED	2700K			120/277	15		2000		HUBBELL (TRP1–12L–15–2K7–4–U–PS–SCP20F)	APPROVED EQUAL	4
(OC1E)	EXTERIOR WALL MOUNTED LED FIXTURE, EMERGENCY, DARK SKY FRIENDLY. W/ MOTION SENSOR	17"	10 1/8"	8 1/2"	–	W	LED	2700K			120/277	15		2000		HUBBELL (TRP1–12L–15–2K7–4–U–PS–SCP20F–E)	APPROVED EQUAL	3
(SA1)	4' LED STRIP LIGHT; LENSED	48"	4 1/2"	6 3/4"		C,P	LED	5000K		LED DRIVER(0–10V DIMMER)	120/277	51		7500		LITHONIA (ZL1F–L48–SMR–6000LM–M–DD–MVOLT–40 K)	APPROVED EQUAL	42
(SA2)	4' LED STRIP LIGHT; LENSED, DAMP LISTED, DARK SKY FRIENDLY	48"	4 1/2"	6 3/4"		C,P	LED	2700K		LED DRIVER(0–10V DIMMER)	120/277	30		3000		LITHONIA (ZL1F–L48–SMR–3000LM–M–DD–MVOLT)	APPROVED EQUAL	7
(SA2E)	4' LED STRIP LIGHT; LENSED; DAMP LISTED, DARK SKY FRIENDLY	48"	4 1/2"	6 3/4"		C,P	LED	2700K		LED DRIVER(0–10V DIMMER)	120/277	30		3000		LITHONIA (ZL1F–L48–SMR–3000LM–M–DD–MVOLT–E)	APPROVED EQUAL	9
(T–1)	TRACK	VAR	1.5"	3/4"	–	CS	–	–		–	120/277	0	–	0	–			2
(TL–1)	LSI TRACK LIGHT						LED	3000L			120/277	19		0		LSI SSL230–00	APPROVED EQUAL	7
(TL–2)	LSI TRACK WALL WASHER						LED	3000L			120/277	36		0		LSI LPW8–Z1027–9030–OE–ED 120 B	APPROVED EQUAL	16

EXTERIOR LIGHTING FIXTURES TO BE DARK SKY FRIENDLY.

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LIGHTING/SPACE CONTROL TYPE SCHEDULE

WIRING LEGEND

- LINE VOLTAGE WIRING
- 0-10V WIRING
- CAT5E CABLING
- WIRING BY OTHERS
- TMP SEGMENT NETWORK CABLING

APPROVED MANUFACTURERS

1. WATTSTOPPER (BASIS OF DESIGN)
2. NLIGHT
3. HUBBELL BUILDING AUTOMATION
4. GREENGATE

LIGHTING CONTROL ID

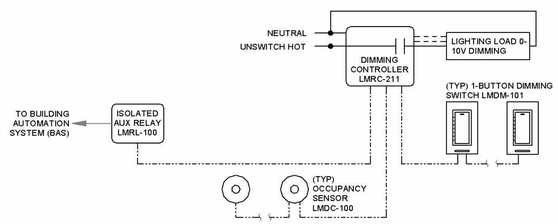
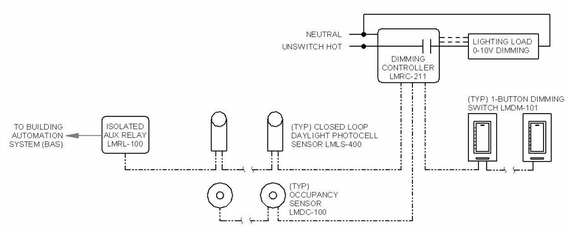
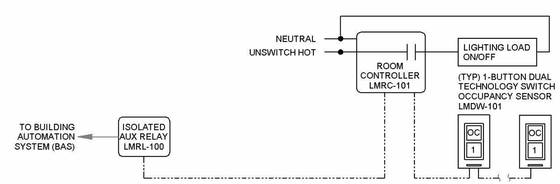
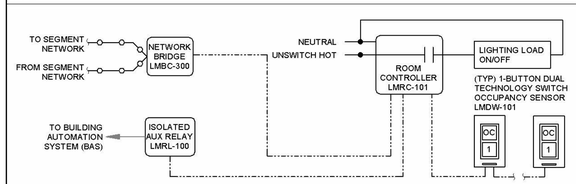
1. # = NUMBER OF ZONES
2. D = DIMMING, S = SWITCHING
3. P = DAYLIGHT PHOTOCELL
4. L = PLUG LOAD CONTROLLER
5. # = INSTANCE

GENERAL NOTES

1. COORDINATE INITIAL PROGRAMMING WITH OWNER AND MODIFY CONTROL TIMES AND OPERATION AS REQUESTED BY OWNER.
2. PROVIDE FINE TUNING PROGRAMMING AND ADJUSTMENTS UPON REQUEST BY OWNER WITHIN FIRST 6 MONTHS AFTER SUBSTANTIAL COMPLETION.
3. PROVIDE CUSTOMIZED ENGRAVED PERMANENT BUTTON LABELS ON EACH SWITCH, LABEL TO MATCH BUTTON LABEL ID OR AS DIRECTED BY OWNER.
4. PART NUMBERS SHOWN ARE BASED ON WATTSTOPPER AS THE BASIS OF DESIGN. ALL APPROVED MANUFACTURERS ARE SUBJECT TO MEETING ALL FUNCTIONS AND CAPABILITIES OF THE BASIS OF DESIGN SYSTEM AND PRODUCTS. FAILURE TO MEET THESE SHALL REQUIRE THE CONTRACTOR TO PROVIDE A SYSTEM THAT DOES AT NOT ADDITIONAL COST.

GENERAL NOTES

5. REFER TO PLANS FOR LOCATIONS AND QUANTITIES OF DEVICES.
6. INSTALL ONE OF EACH CONTROL TYPE WITH PROGRAMMING, ADJUST, AND OBTAIN OWNERS APPROVAL PRIOR TO PROGRAMMING THE REMAINING CONTROLS.
7. WIRING MAY VARY BETWEEN MANUFACTURERS. CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE REQUIRED WIRING THAT WILL BOTH MEET THE MANUFACTURERS REQUIREMENTS AND MATCH WITH THE SHOWN SYSTEM.
8. PROVIDE COMPLETE SHOP DRAWING SUBMITTALS INCLUDING OCCUPANCY SENSOR LAYOUT AND COVERAGE PATTERNS. PROVIDE ADDITIONAL SENSORS AS REQUIRED FOR 100% COVERAGE OF SPACES WITH OCCUPANCY SENSOR CONTROL.

ID	DETAIL	LIGHTS ON CONTROL	LIGHTS OFF CONTROL	LIGHTING CONTROL TYPE	DAYLIGHT SENSOR SETTING (FC)	TIME DELAY TO OFF (MIN.)	BAS AUX RELAY SIGNAL	PLUG LOAD CONTROLLER	NETWORKED CONTROLS	BUTTON_ 1	BUTTON_ 2	BUTTON_ 3	BUTTON_ 4	BUTTON_ 5	BUTTON_ 6	BUTTON_ 7	BUTTON_ 8	BUTTON_ 9	NOTES
1D1		MANUAL & OCCUPANCY	MANUAL OR OCCUPANCY	DIMMING 0–10V	–	15	RELAY CLOSED ON OCCUPANCY	–	–	FUNCTION: PRESS TOP–ON, HOLD TOP–RAISE LABEL ID: TOP–"ON/RAISE" BOTTOM–"OFF/LOWER"	–	–	–	–	–	–	–	–	
1DP1		MANUAL & OCCUPANCY	MANUAL OR OCCUPANCY	DIMMING 0–10V	30	15	RELAY CLOSED ON OCCUPANCY	–	–	FUNCTION: PRESS TOP–ON, HOLD TOP–RAISE LABEL ID: TOP–"ON/RAISE" BOTTOM–"OFF/LOWER"	–	–	–	–	–	–	–	–	
1S1		MANUAL & OCCUPANCY	MANUAL OR OCCUPANCY	ON/OFF	–	15	RELAY CLOSED ON OCCUPANCY	–	–	FUNTION: PRESS–ON PRESS–OFF LABEL ID:"ON/OFF"	–	–	–	–	–	–	–	–	
1S2		TIME ON AT 7AM MON–SAT, CAN MANUAL OVER–RIDE ON FOR 2HRS	TIME OFF AT 6PM DAILY, BLINK LIGHTS 10 MIN WARNING	ON/OFF	–	15	RELAY CLOSED ON OCCUPANCY	–	YES	FUNTION: PRESS–ON PRESS–OFF LABEL ID:"ON/OFF"	–	–	–	–	–	–	–	–	

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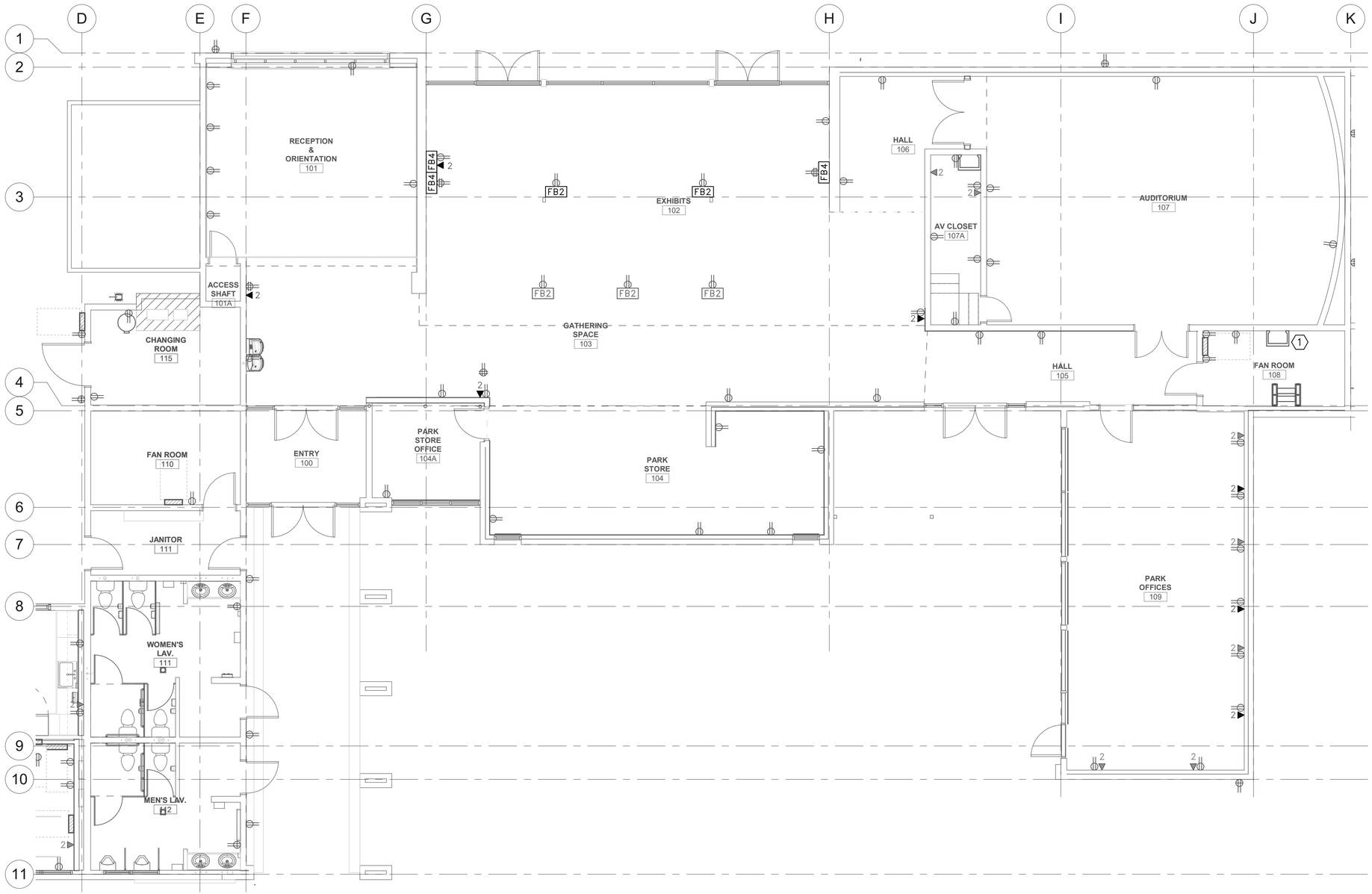


GENERAL SHEET NOTES

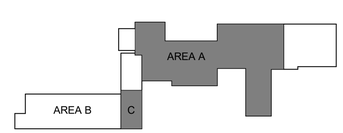
1 COORDINATE NEW OUTLETS ON EXISTING WALL WITH ARCH.

SHEET KEYNOTES

1 NEW COMMUNICATIONS PATCH PANEL.

4 0 4 8 12
SCALE OF FEET

A1 / ET1.1 TELECOM PLAN NEW – AREA A
SCALE: 3/16" = 1'-0"



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STATE OF UTAH

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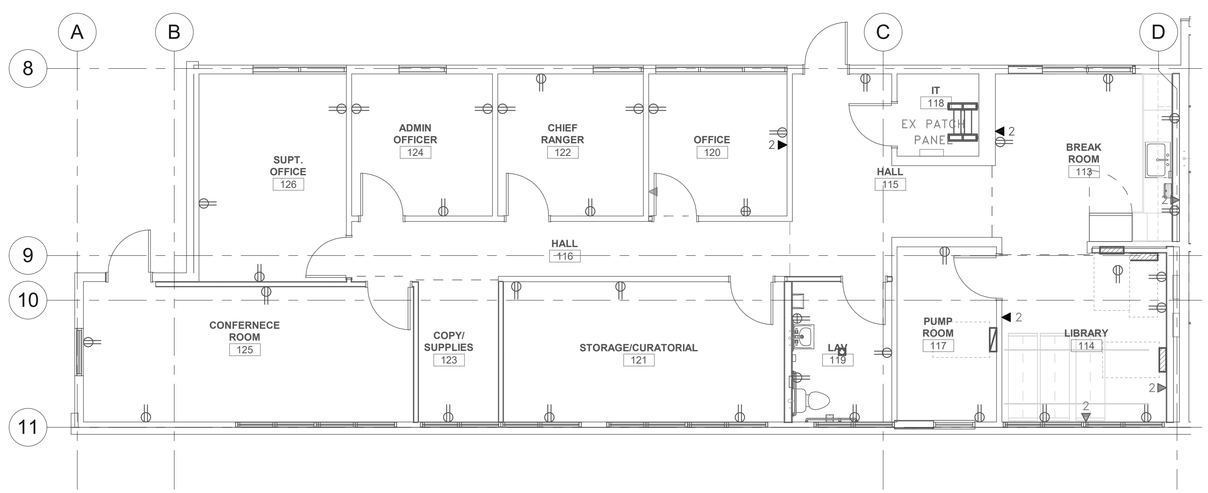
AJC ARCHITECTS SALT LAKE CITY, UT 84104	S. LITTLE DATE J. KUEHN TECH. REVIEW: E. BEST DATE: 04/19/2023	ET1.1	TELECOM PLAN NEW - AREA A GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 105 OF 113

GENERAL SHEET NOTES

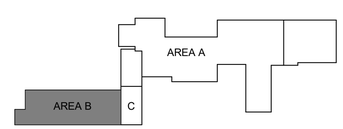
1 COORDINATE NEW OUTLETS ON EXISTING WALL WITH ARCH.

SHEET KEYNOTES



4 0 4 8 12
SCALE OF FEET

A1 ET1.2 TELECOM PLAN NEW – AREA B ADD ALTERNATE
SCALE: 3/16" = 1'-0"



KEYPLAN

LICENSED PROFESSIONAL ENGINEER
No. 7258080
SPENCER C. LITTLE
04-21-2023
STATE OF UTAH

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	S. LITTLE CADD J. KUEHN TECH. REVIEW: E. BEST DATE: 04/19/2023	ET1.2	TELECOM PLAN NEW - AREA B ADD ALTERNATE GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 106 OF 113

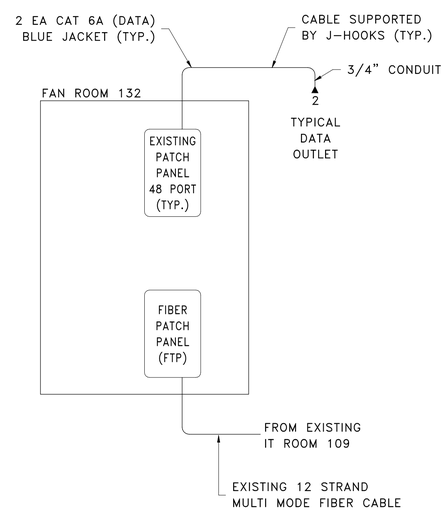
VOICE–DATA SCHEDULE

ELECTRONIC SYSTEMS:
REFER TO DIVISION 26 SPECIFICATIONS AND WIRING DEVICE SCHEDULES FOR INSTALLATION REQUIREMENTS. MOUNTING HEIGHTS SHOWN ARE TYPICAL HEIGHTS. REFER TO DRAWINGS, ARCHITECTURAL ELEVATIONS, DRAWINGS AND SPECIFICATIONS FOR ACTUAL MOUNTING HEIGHTS.

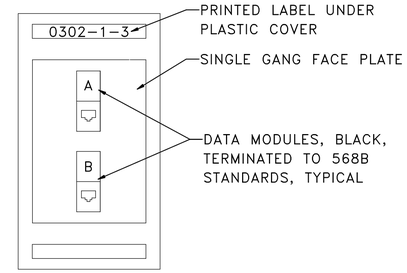
SYMBOL	MOUNTING	DESCRIPTION	ROUGH–IN MATERIALS
▼	WALL	DATA OUTLET	4–11/16" SQUARE, DEEP JUNCTION BOX WITH DOUBLE GANG MUD RING MOUNT AT ELECTRICAL OUTLET HEIGHT OR AS NOTED
▼	WALL	COMBINATION DATA/TELE OUTLET	4–11/16" SQUARE, DEEP JUNCTION BOX WITH DOUBLE GANG MUD RING MOUNT AT ELECTRICAL OUTLET HEIGHT OR AS NOTED

"A" INDICATES ABOVE COUNTER MOUNTING

A1 ET6.1 VOICE DATA SCHEDULE
SCALE: NTS



A3 ET6.1 TELECOM DATA SYSTEM DIAGRAM
SCALE: NTS



B4 ET6.1 WALL MOUNTED DATA OUTLET
SCALE: NTS

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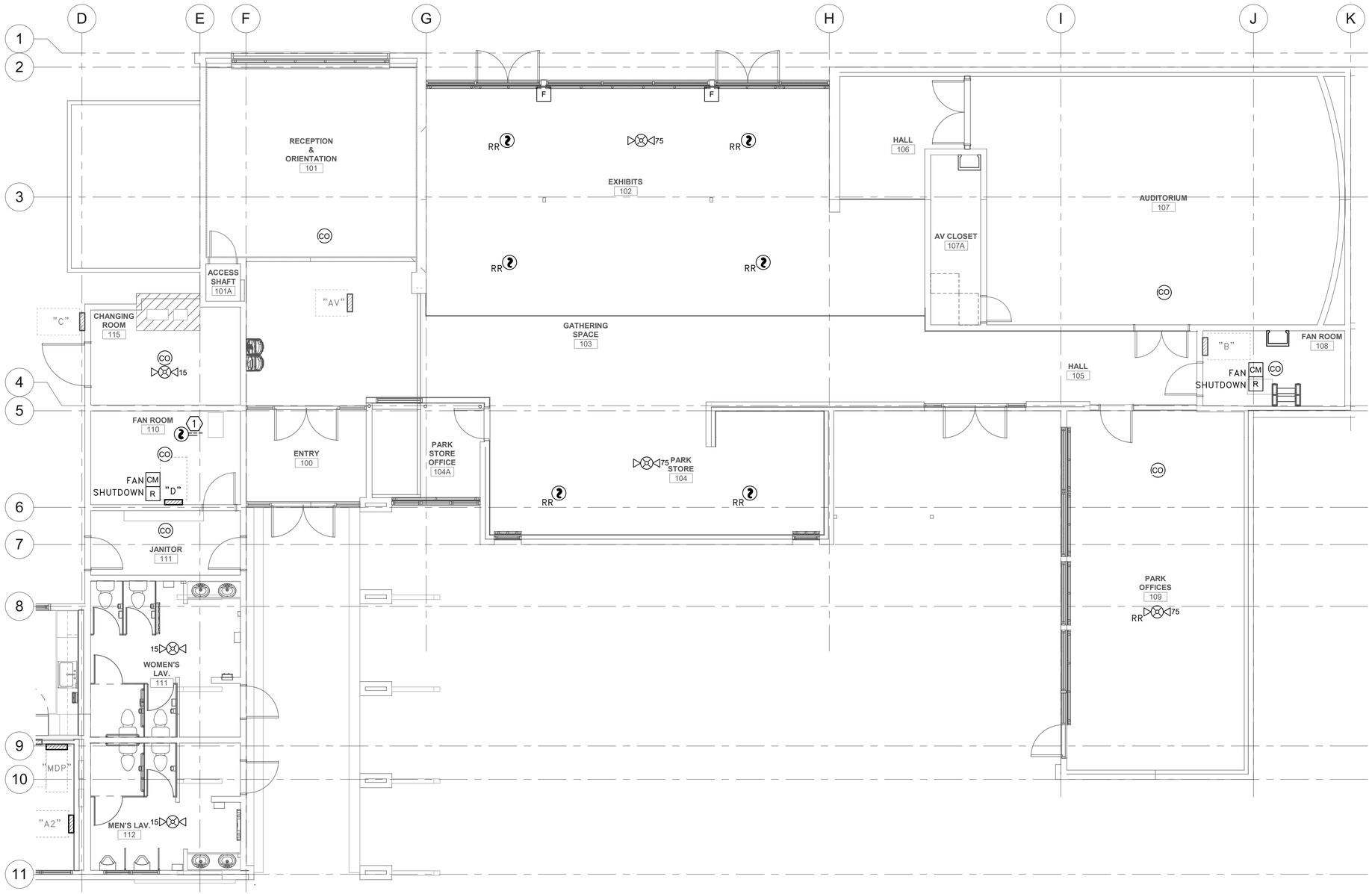
AJC ARCHITECTS SALT LAKE CITY, UT 84104	S. LITTLE DADD J. KUEHN TECH. REVIEW: E. BEST DATE: 04/19/2023	ET6.1	TELECOM DETAILS GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 107 OF 113



A1 FA1.1 FIRE ALARM PLAN NEW – AREA A

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

GENERAL SHEET NOTES

1 THE SCOPE OF WORK FOR THIS PROJECT INCLUDES THE MODIFICATION OF THE EXISTING FIRE ALARM SYSTEM TO MEET REMODEL CONDITIONS. RELOCATE EXISTING DEVICES IF POSSIBLE OR PROVIDE NEW DEVICES COMPATIBLE WITH EXISTING SYSTEM.

2 OUT–OF–SERVICE DETECTORS AND DEVICES SHALL BE REMOVED FROM THE BUILDING AND PROGRAMMING SHALL BE UPDATED AS NECESSARY. PROVIDE UPDATED PROGRAMMING, MONITORING SERVICE AGREEMENT, AND UPDATED DEVICE MAP FOR ENTIRE BUILDING TO NPS.

3 PROVIDE UPDATED AS–BUILT DRAWINGS SHOWING ALL NEW AND EXISTING EQUIPMENT, INCLUDING ITEMS NOT ALTERED BY REMODEL WORK.

4 PRIOR TO SUBMITTING BID, VISIT THE SITE AND FIELD VERIFY THE EXTENT OF ELECTRICAL DEMOLITION WORK TO MEET THE INTENT OF THE BID DOCUMENTS AND INCLUDE ALL COSTS IN BID.

5 REMOVE ALL FIRE ALARM DEVICES WHERE EXISTING WALLS AND CEILINGS ARE BEING REMOVED, WITH ASSOCIATED CONDUIT AND WIRING. EXISTING FIRE ALARM DEVICES AND SYSTEM NOT INDICATED FOR REMOVAL SHALL REMAIN ACTIVE THROUGHOUT DEMOLITION AND CONSTRUCTION UNTIL THE NEW SYSTEM IS TESTED AND OPERATIONAL. MAINTAIN ALL CLASS A FIRE ALARM INITIATING AND INDICATING LOOPS WHERE EXISTING DEVICES ARE REMOVED.

6 DEVICES MARKED "RR" ARE TO BE REMOVED AND RELOCATED PER NEW PLANS. EXTEND CIRCUITING AS REQUIRED FOR RELOCATION.

7 ALL EXISTING DEVICES THAT REMAIN MAY NOT BE SHOWN. PROTECT DEVICES IN PLACE DURING ALL PHASES OF CONSTRUCTION.

8 FINAL SYSTEM SHALL BE TESTED IN ACCORDANCE WITH NFPA 72 AND NPS REQUIREMENTS. NPS AHJ SHALL BE PRESENT FOR FINAL TESTING.

9 INSTALLING CONTRACTOR SHALL PROVIDE DRAWINGS FOR PERMIT AND APPROVAL AS A DEFERRED SUBMITTAL.

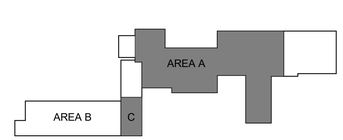
10 INSTALL CONDUIT RACEWAY TO ELIMINATE METAL CLAD CABLE TO THE GREATEST EXTEND POSSIBLE. THIS INCLUDES NEW AND ANY EXISTING WORK. METAL CLAD CABLE SHALL BE USED ONLY WHERE CONCEALED WALL SPACES PROCLUDE CONDUIT OR FOR SHORT CONNECTION RUNS)NO MORE THAN THREE FEET) TO DETECTION OR NOTIFICATION DEVICES. VARIANCES TO BE APPROVED BY CONTRACTING OFFICER.

SHEET KEYNOTES

1 ADD DUCT DETECTOR TO FURNACE RETURN.

4 0 4 8 12

SCALE OF FEET



KEYPLAN

LICENSED PROFESSIONAL ENGINEER
No. 7258080
SPENCER C. LITTLE
04-21-2023
STATE OF UTAH

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	J. DUBOIS CADD J. KUEHN TECH. REVIEW: E. BEST DATE: 04/19/2023	FA1.1	FIRE ALARM PLAN NEW - AREA A GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 108 OF 113

GENERAL SHEET NOTES

1 THE SCOPE OF WORK FOR THIS PROJECT INCLUDES THE MODIFICATION OF THE EXISTING FIRE ALARM SYSTEM TO MEET REMODEL CONDITIONS. RELOCATE EXISTING DEVICES IF POSSIBLE OR PROVIDE NEW DEVICES COMPATIBLE WITH EXISTING SYSTEM.

2 OUT-OF-SERVICE DETECTORS AND DEVICES SHALL BE REMOVED FROM THE BUILDING AND PROGRAMMING SHALL BE UPDATED AS NECESSARY. PROVIDE UPDATED PROGRAMMING, MONITORING SERVICE AGREEMENT, AND UPDATED DEVICE MAP FOR ENTIRE BUILDING TO NPS.

3 PROVIDE UPDATED AS-BUILT DRAWINGS SHOWING ALL NEW AND EXISTING EQUIPMENT, INCLUDING ITEMS NOT ALTERED BY REMODEL WORK.

4 PRIOR TO SUBMITTING BID, VISIT THE SITE AND FIELD VERIFY THE EXTENT OF ELECTRICAL DEMOLITION WORK TO MEET THE INTENT OF THE BID DOCUMENTS AND INCLUDE ALL COSTS IN BID.

5 REMOVE ALL FIRE ALARM DEVICES WHERE EXISTING WALLS AND CEILINGS ARE BEING REMOVED, WITH ASSOCIATED CONDUIT AND WIRING. EXISTING FIRE ALARM DEVICES AND SYSTEM NOT INDICATED FOR REMOVAL SHALL REMAIN ACTIVE THROUGHOUT DEMOLITION AND CONSTRUCTION UNTIL THE NEW SYSTEM IS TESTED AND OPERATIONAL. MAINTAIN ALL CLASS A FIRE ALARM INITIATING AND INDICATING LOOPS WHERE EXISTING DEVICES ARE REMOVED.

6 DEVICES MARKED "RR" ARE TO BE REMOVED AND RELOCATED PER NEW PLANS. EXTEND CIRCUITING AS REQUIRED FOR RELOCATION.

7 ALL EXISTING DEVICES THAT REMAIN MAY NOT BE SHOWN. PROTECT DEVICES IN PLACE DURING ALL PHASES OF CONSTRUCTION.

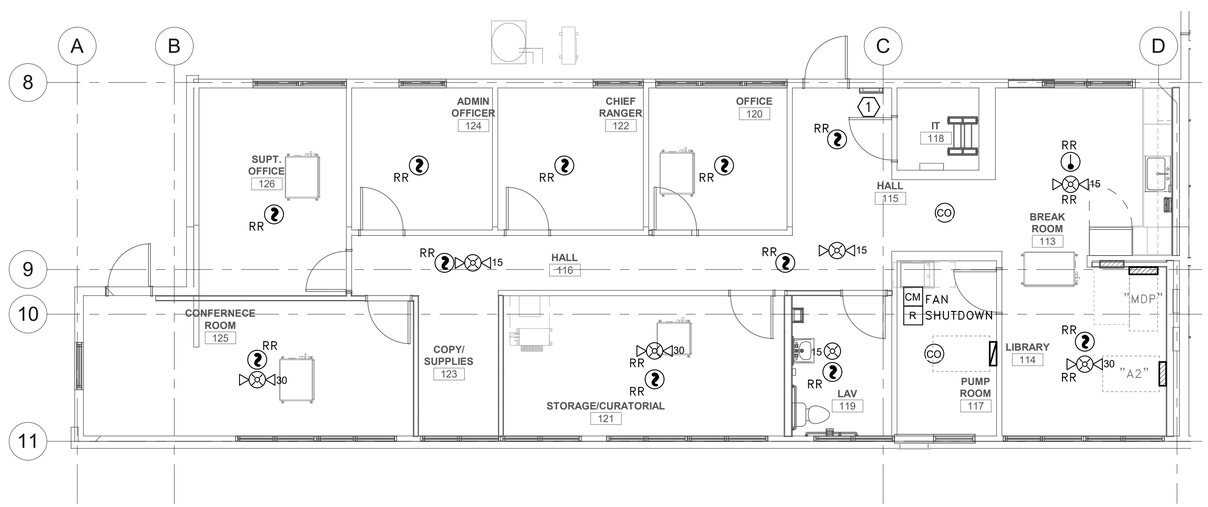
8 FINAL SYSTEM SHALL BE TESTED IN ACCORDANCE WITH NFPA 72 AND NPS REQUIREMENTS. NPS AHJ SHALL BE PRESENT FOR FINAL TESTING.

9 INSTALLING CONTRACTOR SHALL PROVIDE DRAWINGS FOR PERMIT AND APPROVAL AS A DEFERRED SUBMITTAL.

10 INSTALL CONDUIT RACEWAY TO ELIMINATE METAL CLAD CABLE TO THE GREATEST EXTEND POSSIBLE. THIS INCLUDES NEW AND ANY EXISTING WORK. METAL CLAD CABLE SHALL BE USED ONLY WHERE CONCEALED WALL SPACES PROCLUDE CONDUIT OR FOR SHORT CONNECTION RUNS)NO MORE THAN THREE FEET) TO DETECTION OR NOTIFICATION DEVICES. VARIANCES TO BE APPROVED BY CONTRACTING OFFICER.

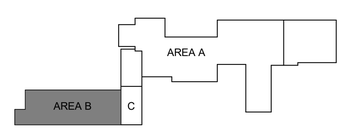
SHEET KEYNOTES

1 EXISTING FIRE ALARM PANEL TO REMAIN. PROVIDE NEW DEVICE MAP.



4 0 4 8 12
SCALE OF FEET

A1 FA1.2 FIRE ALARM PLAN NEW – AREA B ADD ALTERNATE
SCALE: 3/16" = 1'-0"



KEYPLAN

LICENSED PROFESSIONAL ENGINEER
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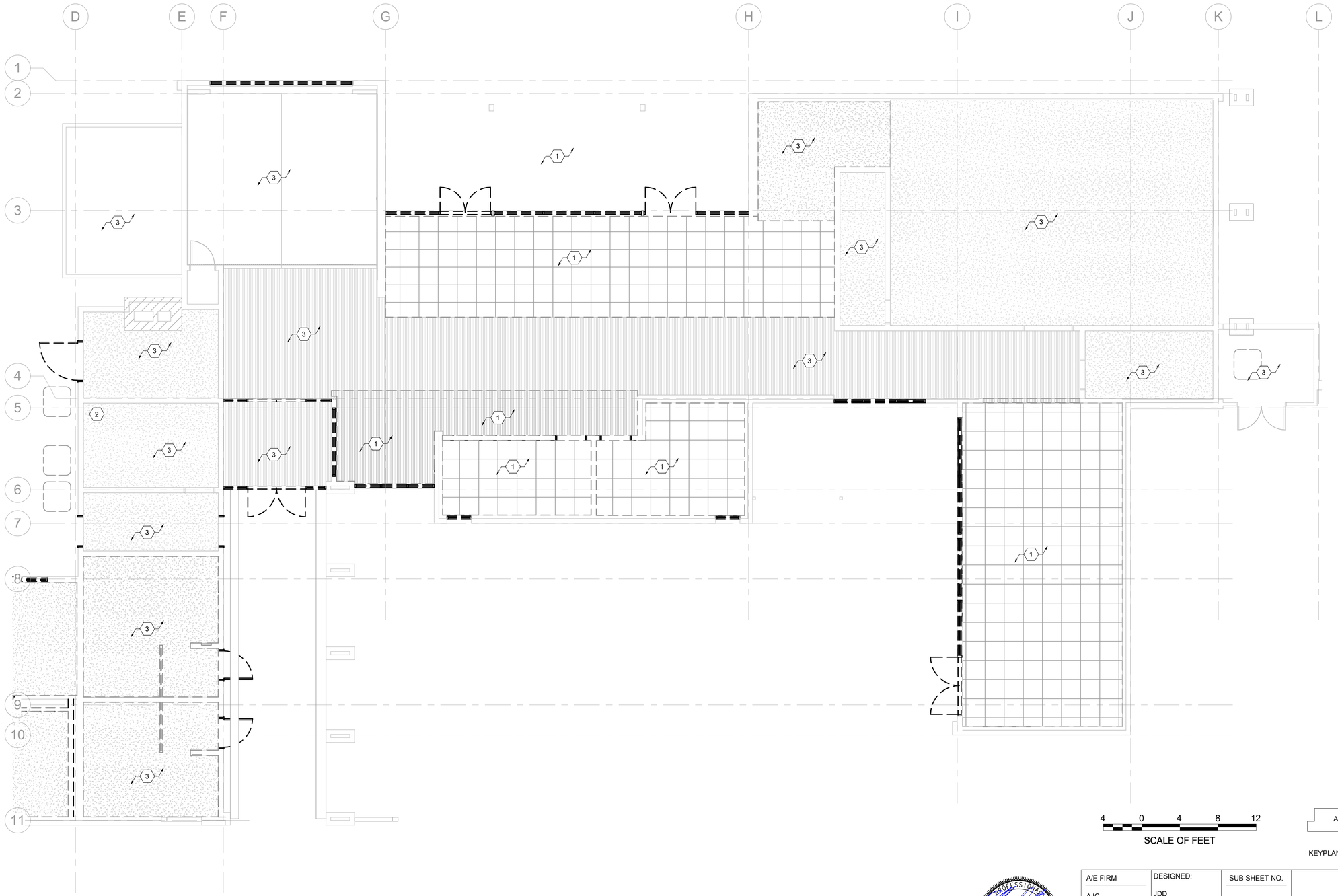
SPENCER C. LITTLE
04-21-2023
STATE OF UTAH

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	J. DUBOIS J. KUEHN TECH. REVIEW: E. BEST DATE: 04/19/2023	FA1.2	FIRE ALARM PLAN NEW - AREA B ADD ALTERNATE GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 109 OF 113



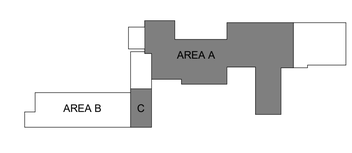
GENERAL SHEET NOTES

1. THE SCOPE OF WORK FOR THIS PROJECT INCLUDES THE MODIFICATIONS OF THE EXISTING DRY-PIPE FIRE SPRINKLER SYSTEM TO MEET REMODEL CONDITIONS. EXPOSED PIPING SHALL BE LOCATED ABOVE NEW CEILINGS WHERE POSSIBLE. NEW SPRINKLERS IN LOBBY OR PUBLIC AREAS SHALL BE FLAT PLATE CONCEALED TYPE WITH COVER PLATES FACTORY PAINTED TO MATCH SURFACES. VERIFY FINISHES WITH ARCHITECT PRIOR TO ORDERING.
2. PROVIDE UPDATED AS-BUILT DRAWINGS SHOWING ALL NEW AND EXISTING EQUIPMENT INCLUDING ITEMS NOT ALTERED BY REMODEL WORK.
3. ALL NEW PIPING SHALL BE SCHEDULE 40 BLACK STEEL.
4. FINAL SYSTEM SHALL BE TESTED IN ACCORDANCE WITH NFPA 13 AND NPS REQUIREMENTS. NPS AHJ SHALL BE PRESENT FOR FINAL TESTING.
5. INSTALLING CONTRACTOR SHALL PROVIDE DRAWINGS FOR PERMIT AND APPROVAL AS A DEFERRED SUBMITTAL.

SHEET KEYNOTES

1. DEMO SYSTEM IN THIS AREA, WHERE CEILINGS ARE BEING REMOVED OR ADDED.
2. EXISTING DRY-PIPE RISER LOCATION.
3. EXISTING SYSTEM IN THIS AREA TO REMAIN.

4 0 4 8 12
SCALE OF FEET



KEYPLAN

1 FD1.1 FIRE PROTECTION DEMO PLAN – AREA A
SCALE: 3/16" = 1'-0"

LICENSED PROFESSIONAL ENGINEER
No. 265949-2202
Jeffrey D. DuBois
02/08/2023
STATE OF UTAH

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	JDD DATE: JDD TECH. REVIEW: JFK DATE: 12/09/2022	FD1.1	FIRE PROTECTION DEMO PLAN - AREA A GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 110 OF 113

GENERAL SHEET NOTES

1 THE SCOPE OF WORK FOR THIS PROJECT INCLUDES THE MODIFICATIONS OF THE EXISTING DRY-PIPE FIRE SPRINKLER SYSTEM TO MEET REMODEL CONDITIONS. EXPOSED PIPING SHALL BE LOCATED ABOVE NEW CEILINGS WHERE POSSIBLE. NEW SPRINKLERS IN LOBBY OR PUBLIC AREAS SHALL BE FLAT PLATE CONCEALED TYPE WITH COVER PLATES FACTORY PAINTED TO MATCH SURFACES. VERIFY FINISHES WITH ARCHITECT PRIOR TO ORDERING.

2 PROVIDE UPDATED AS-BUILT DRAWINGS SHOWING ALL NEW AND EXISTING EQUIPMENT INCLUDING ITEMS NOT ALTERED BY REMODEL WORK.

3 ALL NEW PIPING SHALL BE SCHEDULE 40 BLACK STEEL.

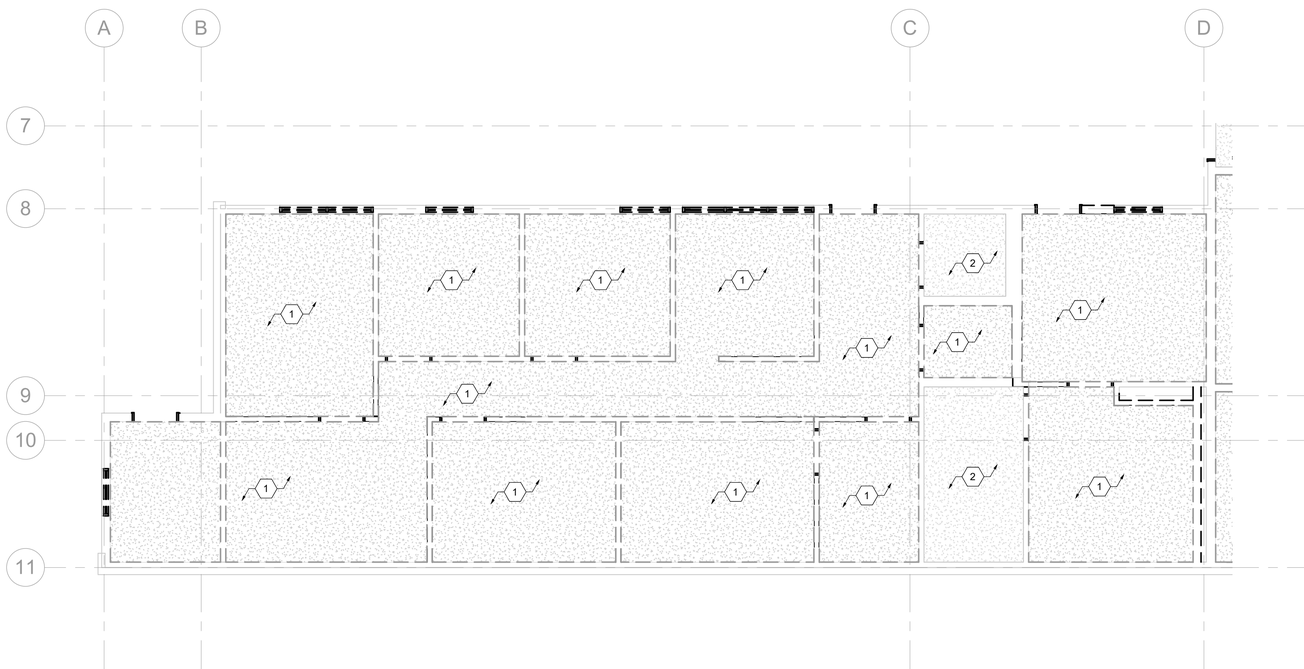
4 FINAL SYSTEM SHALL BE TESTED IN ACCORDANCE WITH NFPA 13 AND NPS REQUIREMENTS. NPS AHJ SHALL BE PRESENT FOR FINAL TESTING.

5 INSTALLING CONTRACTOR SHALL PROVIDE DRAWINGS FOR PERMIT AND APPROVAL AS A DEFERRED SUBMITTAL.

SHEET KEYNOTES

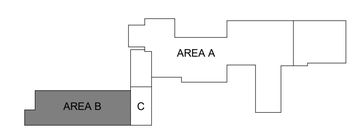
1 DEMO SYSTEM IN THIS AREA, WHERE CEILINGS ARE BEING REMOVED OR ADDED.

2 EXISTING SYSTEM IN THIS AREA TO REMAIN.



1 FD1.2 FIRE PROTECTION DEMO PLAN – AREA B ADD ALTERNATE
SCALE: 3/16" = 1'-0"

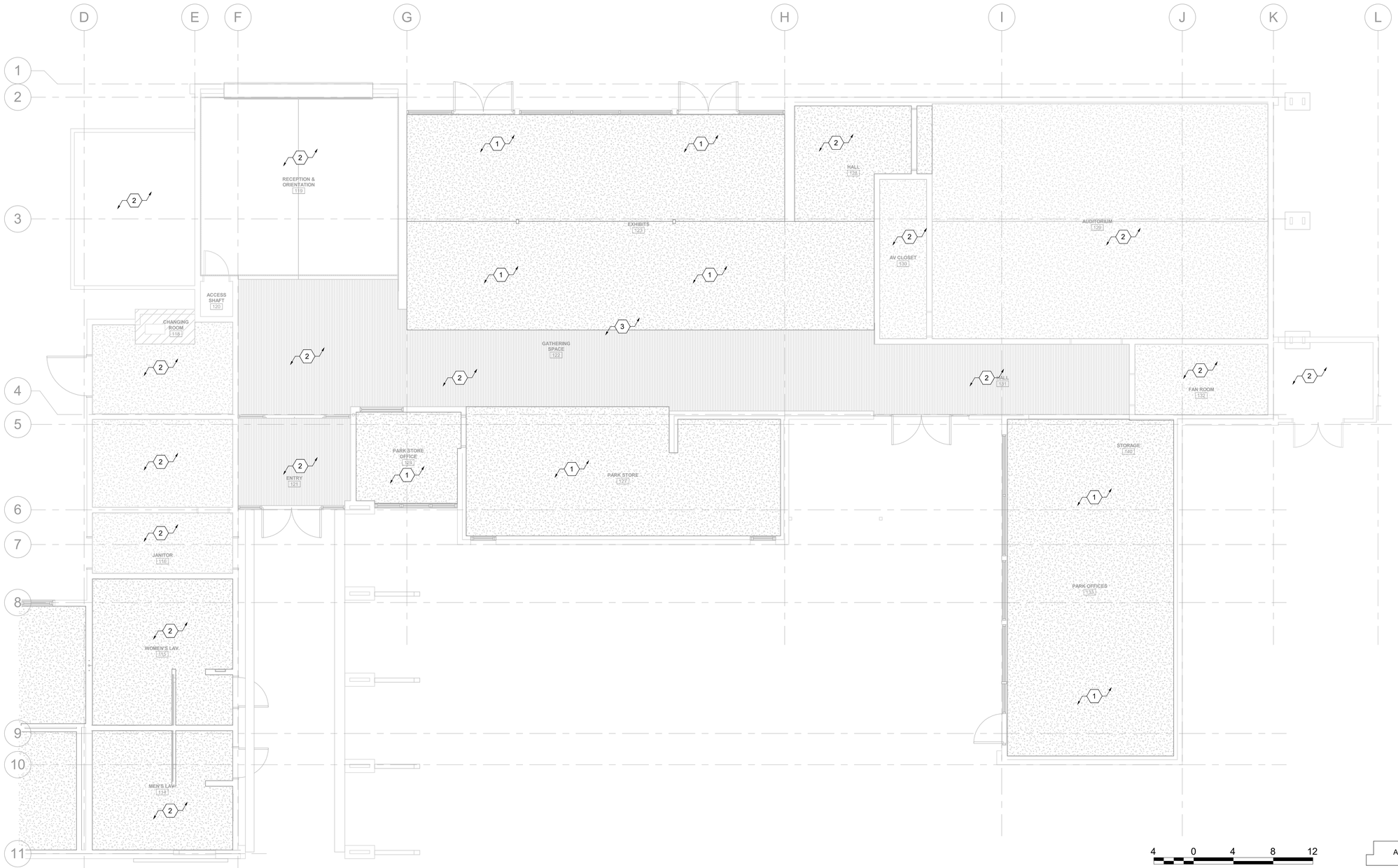
4 0 4 8 12
SCALE OF FEET



KEYPLAN

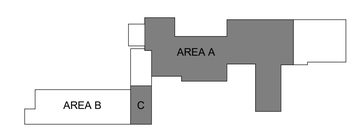
LICENSED PROFESSIONAL ENGINEER
No. 265949-2202
Jeffrey D. DuBois
02/08/2023
STATE OF UTAH

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	JDD CADD JDD TECH. REVIEW: JFK DATE: 12/09/2022	FD1.2	FIRE PROTECTION DEMO PLAN - AREA B ADD ALTERNATE GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 111 OF 113



4 0 4 8 12

SCALE OF FEET



KEYPLAN

GENERAL SHEET NOTES

1 THE SCOPE OF WORK FOR THIS PROJECT INCLUDES THE MODIFICATIONS OF THE EXISTING DRY–PIPE FIRE SPRINKLER SYSTEM TO MEET REMODEL CONDITIONS. EXPOSED PIPING SHALL BE LOCATED ABOVE NEW CEILINGS WHERE POSSIBLE. NEW SPRINKLERS IN LOBBY OR PUBLIC AREAS SHALL BE FLAT PLATE CONCEALED TYPE WITH COVER PLATES FACTORY PAINTED TO MATCH SURFACES. VERIFY FINISHES WITH ARCHITECT PRIOR TO ORDERING.

2 PROVIDE UPDATED AS–BUILT DRAWINGS SHOWING ALL NEW AND EXISTING EQUIPMENT INCLUDING ITEMS NOT ALTERED BY REMODEL WORK.

3 ALL NEW PIPING SHALL BE SCHEDULE 40 BLACK STEEL.

4 FINAL SYSTEM SHALL BE TESTED IN ACCORDANCE WITH NFPA 13 AND NPS REQUIREMENTS. NPS AHJ SHALL BE PRESENT FOR FINAL TESTING.

5 INSTALLING CONTRACTOR SHALL PROVIDE DRAWINGS FOR PERMIT AND APPROVAL AS A DEFERRED SUBMITTAL.

SHEET KEYNOTES

1 MODIFY SYSTEM IN THIS AREA FOR REMODEL CONDITIONS. NEW PIPING SHALL BE CONCEALED.

2 EXISTING SYSTEM IN THIS AREA TO REMAIN.

3 RE–CUT EXPOSED PIPING TO RUN AS CLOSE TO SOFFIT AS POSSIBLE.

1 FP1.1 FIRE PROTECTION PLAN – AREA A

SCALE: 3/16" = 1'–0"

LICENSED PROFESSIONAL ENGINEER No. 265949–2202 Jeffrey D. DuBois 02/08/2023 STATE OF UTAH

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF DRAWING	DRAWING NO.
AJC ARCHITECTS SALT LAKE CITY, UT 84104	JDD DADE JDD TECH. REVIEW: JFK DATE: 12/09/2022	FP1.1	FIRE PROTECTION PLAN - AREA A GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 112 OF 113

GENERAL SHEET NOTES

1 THE SCOPE OF WORK FOR THIS PROJECT INCLUDES THE MODIFICATIONS OF THE EXISTING DRY-PIPE FIRE SPRINKLER SYSTEM TO MEET REMODEL CONDITIONS. EXPOSED PIPING SHALL BE LOCATED ABOVE NEW CEILINGS WHERE POSSIBLE. NEW SPRINKLERS IN LOBBY OR PUBLIC AREAS SHALL BE FLAT PLATE CONCEALED TYPE WITH COVER PLATES FACTORY PAINTED TO MATCH SURFACES. VERIFY FINISHES WITH ARCHITECT PRIOR TO ORDERING.

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SHEET KEYNOTES

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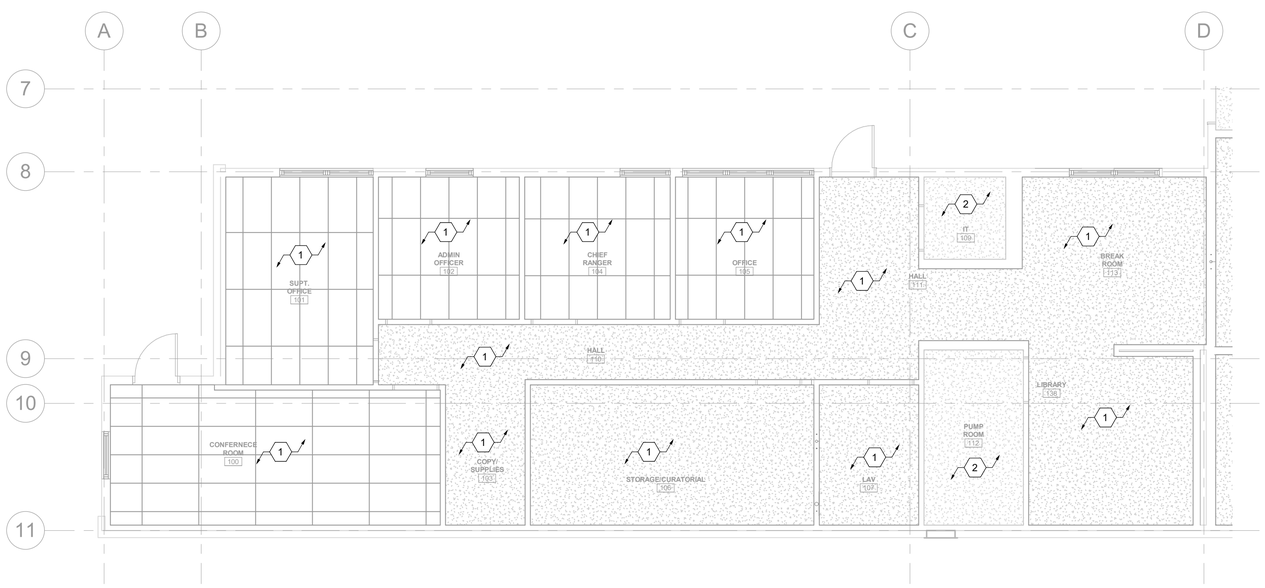

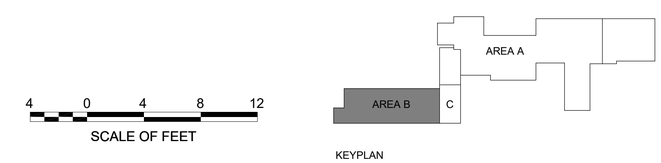

1 FP1.2 FIRE PROTECTION PLAN – AREA B ADD ALTERNATE
SCALE: 3/16" = 1'-0"

LICENSED PROFESSIONAL ENGINEER
No. 265949-2202
Jeffrey D. DuBois
02/08/2023
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AJC ARCHITECTS SALT LAKE CITY, UT 84104	JDD CADD JDD TECH. REVIEW: JFK DATE: 12/09/2022	FP1.2	FIRE PROTECTION PLAN - AREA B ADD ALTERNATE GOLDEN SPIKE NATIONAL HISTORICAL PARK	431 175345 PMIS/PKG NO. 308441 SHEET 113 OF 113