UNITED STATES OLYMPIC MUSEUM
100% SCHEMATIC DESIGN

Sheet Number	Sheet Title	Scale
G-000	Cover Sheet	NTS
G-001	Project General Notes and Abbreviations	NTS
G-100	Level -1 Plan (Basement)	1/16" = 1'-0"
G-101	Level 1 Plan (Ground Floor)	1/16" = 1'-0"
G-101a	Level 1 Mezzanine Plan	1/16" = 1'-0"
G-102	Level 2 Plan	1/16" = 1'-0"
G-103	Level 3 Plan (Upper Floor)	1/16" = 1'-0"
G-104	Roof Plan	1/16" = 1'-0"
G-104a	Exploded Axonometric	NTS
C-100	Existing Conditions	1" = 20'-0"
C-101	Preliminary Utilities	1" = 20'-0"
C-102	Profile Section	1" = 5'-0"
L-101	Site Plan	1" = 20'-0"
L-102	Grading Plan	1" = 20'-0"
L-103	Planting Plan	1" = 20'-0"
L-201	Site Sections	1" = 20'-0"
L-202	Site Sections	1" = 10'-0"
A-001	Site Plan	1/32" = 1'-0"
A-100	Level -1 Plan Basement	1/16" = 1'-0"
A-101	Level 1 Plan Ground Floor	1/16" = 1'-0"
A-101a	Level 1 Plan Mezzanine	1/16" = 1'-0"
A-102	Level 2 Plan Lower Exhibit	1/16" = 1'-0"
A-103	Level 3 Plan Upper Exhibit	1/16" = 1'-0"
A-104	Roof Plan	1/16" = 1'-0"
A-201	Elevations: North - South	1/16" = 1'-0"
A-202	Elevations: East - West	1/16" = 1'-0"
A-301	Sections: North - South	1/16" = 1'-0"
A-302	Sections: East - West	1/16" = 1'-0"
A-401	Details	AS NOTED
XO-101	Exhibit Plans	1/8" = 1'-0"
XO-102	Exhibit Plans	1/8" = 1'-0"
XO-103	Exhibit Plans	1/8" = 1'-0"
LC-101	Lighting Layout Level 1	1/16" = 1'-0"
LC-101a	Lighting Layout Level 1a	1/16" = 1'-0"
LC-102	Lighting Layout Level 2	1/16" = 1'-0"
LC-103	Lighting Layout Level 3	1/16" = 1'-0"
S-000	Cover Sheet	NTS
S-001	General Notes	12"=1'-0"
S-002	Foundation Plan	3/32" = 1'-0"
S-003	Upper Level Framing Plan	3/32" = 1'-0"
S-004	Cafe Framing Plan	3/32" = 1'-0"
S-005	Perimeter Truss Elevations	3/32" = 1'-0"
S-006	Sections	1" = 10'-0"
M-100	Basement HVAC Plan	1/8" = 1'-0"
M-100A	Below Grade HVAC Plan	1/8" = 1'-0"
M-101	First Floor HVAC Plan	3/32" = 1'-0"
M-102	Second Floor HVAC Plan	3/32" = 1'-0"
M-103	Third Floor HVAC Plan	3/32" = 1'-0"
M-300	HVAC Sections	-
M-600	HVAC Schedules	-
M-601	HVAC Schedules	-
E-001	Electrical Legend	-
E-100	Basement Plan	1/16" = 1'-0"
E-101	Ground Floor Plan	1/16" = 1'-0"
E-102	Level Two Plan	1/16" = 1'-0"
E-103	Upper Floor	1/16" = 1'-0"
E-401	Enlarged Electrical Room Plans	1/4" = 1'-0"
E-701	Electrical One-line Diagrams	NTS
E-702	Electrical Schedules and Details	NTS
FA-001	Fire Alarm General Notes	-
FA-002	Project Details and Sequence of Operations	-
FA-003	Fire Alarm Legend, Riser Diagram, and Details	-
FX-001	Fire Sprinkler Cover Sheet	NTS
VT-100	Gallery & Event Elevators	NTS
VT-101	Gallery & Event Elevators -EMR	NTS
VT-102	Service Elevator	NTS
VT-103	Kitchen Elevator	NTS

US OLYMPIC MUSEUM

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TITLE
COVER SHEET

DRAWING NO.
G-000

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ABBREVIATIONS

NOTE: NOT ALL ABBREVIATIONS AND SYMBOLS ARE USED ON DRAWINGS CONTAINED IN THE SET. SYMBOLS AND ABBREVIATIONS ON THIS SHEET APPLY ONLY TO ARCHITECTURAL DRAWINGS

A/C	AIR CONDITIONING
ACST	ACOUSTIC
ACR	ACRYLIC
AD	AREA DRAIN
ADD	ADDENDUM
ADH	ADHESIVE
ADJ	ADJACENT
ADJST	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ALUM	ALUMINUM
AL	ALTERNATE
ANOD	ANODIZED
APC	ACOUSTICAL CEILING TILE
APPROX	APPROXIMATE (LY)
ARCH	ARCHITECT(URAL)
ASPH	ASPHALT
AUTO	AUTOMATIC
BD	BOARD
BTWN	BETWEEN
BLDG	BUILDING
BLK(G)	BLOCK (ING)
BM	BEAM
BO	BY OTHERS
BOT	BOTTOM
BR	BACKER ROD
BRG	BEARING
BRK	BRICK
BS	BOTH SIDES
BSMT	BASEMENT
BUR	BUILT UP ROOFING
CAB	CABINET
CFM	CUBIC FEET/MINUTE
CG	CORNER GUARD
CIPC	CAST-IN-PLACE CONCRETE
CJ	CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CLO	CLOSET
CLR	CLEAR (ANCE)
CMU	CONCRETE MASONRY UNIT
CTR	CENTER
CO	CLEANOUT
COL	COLUMN
COMP	COMPRESS(ED, ION, IBLE, OR)
CONST	CONSTRUCTION
CONC	CONCRETE
CONT	CONTINUOUS OR CONTINUE
CONTR	CONTRACT (OR)
COORD	COORDINATE
CORR	CORRIDOR
CORRUG	CORRUGATED
CPT	CARPET (ED)
CT	CERAMIC TILE
CSNK	COUNTERSINK/COUNTERSUNK
CW	COLD WATER
DBL	DOUBLE
DEMO	DEMOLISH, DEMOLITION
DF	DRINKING FOUNTAIN
DIAM	DIAMETER
DIM	DIMENSION
DISP	DISPOSAL
DN	DOWN
DP	DEEP
DPF	DAMPPROOFING
DR	DOOR
DS	DOWNSPOUT
DTL	DETAIL
DWG	DRAWING
EA	EACH
EJ	EXPANSION JOINT
ELEV	ELEVATION
ELEC	ELECTRIC (AL)
ENC	ENCLOSE (URE)
ENT	ENTRANCE
EQ	EQUAL
EQP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EXH	EXHAUST
EXIST, EX	EXISTING
EXP	EXPOSED
EXPN	EXPANSION
EXT	EXTERIOR

FBO	FURNISHED BY OWNER
FD	FLOOR DRAIN
FEC	FIRE EXTINGUISHER CABINET
FEX	FIRE EXTINGUISHER
FIN	FINISH(ED)
FLR(G)	FLOOR (ING)
FND	FOUNDATION
FOS	FACE OF STUD
FR	FIRE RESISTIVE
FT	FOOT, FEET
FTG	FOOTING
FUT	FUTURE
GA	GAUGE, GAGE
GALV	GALVANIZED
GB	GYPSUM BOARD
GBAR	GRAB BAR
GC	GENERAL CONTRACT (OR)
GL	GLASS, GLAZING
GR	GRILLE
HB	HOSE BIB
H	HOLLOW CORE
HCAP	HANDICAPPED
HDW	HARDWARE
HM	HOLLOW METAL
HOR	HORIZONTAL
HPT	HIGH POINT
HR	HOUR
HT	HEIGHT
HTR	HEATER
HVAC	HEATING/VENTILATION/AC
HW	HOT WATER
HWH	HOT WATER HEATER
ID	INSIDE DIAMETER
IN	INCH(ES)
INCAN	INCANDESCENT
INCL	INCLUDE (D), (ING)
INFO	INFORMATION
INS	INSULATE (D), (ION)
INT	INTERIOR
INV	INVERT
JT	JOINT
LAB	LABORATORY
LAM	LAMINATE (D)
LAV	LAVATORY
LB	POUND(S)
LIB	LIBRARY
LIN	LINEAL
LKR	LOCKER
LT	LIGHT
MAINT	MAINTAIN (ENANCE)
MAS	MASONRY
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
MECH	MECHANIC (AL)
MET	METAL
MFR	MANUFACTURE (ER)
MH	MANHOLE
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MR	MOISTURE RESISTANT
MT	MOUNT (ED), (ING)
MTL	MATERIAL (S)
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NR	NONE REQUIRED
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
OA	OVERALL
OB	OBSCURE
OC	ON CENTER (S)
OD	OUTSIDE DIAMETER
OH	OVERHEAD
OPG	OPENING
OPH	OPPOSITE HAND
OPP	OPPOSITE
ORD	OVERFLOW ROOF DRAIN
OZ	OUNCE
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED

PAR	PARALLEL
PC	PRECAST CONCRETE
PERP	PERPENDICULAR
PL	PLATE
PLAM	PLASTIC LAMINATE
PLBG	PLUMBING
PNT	PAINT(ED)
PRN	PORCELAIN
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PTN	PARTITION
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
PWD	PLYWOOD
QTY	QUANTITY
R	RESISTANCE, THERMAL, RISER
RB	RESILIENT BASE
RAD	RADIUS
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
RE	REFERENCE, REFER TO
REINF	REINFORCING
REM	REMOVE
REQ	REQUIRE (D)
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RR	RESTROOM
SBLK	SPLASH BLOCK
SC	SOLID CORE
SCH	SCHEDULE
SD	STORM DRAIN
SEC	SECTION
SHT	SHEET
SHTH	SHEATHING
SIM	SIMILAR
SOG	SLAB ON GRADE
SPEC	SPECIFICATION (S)
SPL	SPECIAL
SQ	SQUARE
SST	STAINLESS STEEL
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STL	STEEL
STO	STORAGE
STRUC	STRUCTURAL
SUS	SUSPENDED
SYM	SYMMETRICAL
T	TREAD
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TEL	TELEPHONE
TEMP	TEMPERATURE
THK	THICK (NESS)
THR	THRESHOLD
THRU	THROUGH
TO	TOP OF
TOB	TOP OF BEAM
TOC	TOP OF CURB
TOI	TOP OF INSULATION
TOP	TOP OF PARAPET
TOM	TOP OF MASONRY
TOS	TOP OF SLAB
TOSTL	TOP OF STEEL
TOW	TOP OF WALL
TPD	TOILET PAPER DISPENSER
TPART	TOILET PARTITION
TR	TRANSOM
TS	TUBE STEEL
TV	TELEVISION
TYP	TYPICAL
TZ	TERRAZZO
UL	UNDERWRITERS LABORATORY
UNFIN	UNFINISHED
UON	UNLESS OTHERWISE NOTED
UR	URINAL
VAR	VARIABLE (VARIES)
VB	VAPOR BARRIER
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
W	WIDE OR WIDTH
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WD	WOOD
WP (G)	WATERPROOF (ING)
WR	WATER RESISTANT
WWF	WELDED WIRE FABRIC

SYMBOLS LEGEND

GRAPHIC SYMBOLS

1 / A101 — BUILDING SECTION SYMBOL:
UPPER=THE SECTION NUMBER
LOWER=THE SHEET WHERE DRAWN

A / 30 — CABINET TYPE SYMBOL:
UPPER=CABINET STYLE
LOWER=CABINET SIZE IN INCHES

1 / A101 — WALL SECTION SYMBOL:
UPPER=THE SECTION NUMBER
LOWER=THE SHEET WHERE DRAWN

1 / A101 — DETAIL SYMBOL:
UPPER=THE SECTION NUMBER
LOWER=THE SHEET WHERE DRAWN

E-1 — EQUIPMENT TYPE INDICATOR:
LETTER= GROUP FUNCTION
NUMBER= ITEM NUMBER

TA-2 — TOILET ACCESSORY INDICATOR:
TA= TOILET ACCESSORY
NUMBER= ITEM NUMBER

1 / A101 — EXTERIOR ELEVATION SYMBOL:
UPPER=THE ELEVATION NUMBER
LOWER=THE SHEET WHERE DRAWN

STRUCTURAL GRIDLINE IDENTIFIER

HEIGHT INDICATOR

1 / A410 — INTERIOR ELEVATION SYMBOL: THE DARKENED CORNERS INDICATE DRAWN WALLS. ELEVATION DRAWINGS ARE ARRANGED NUMERICALLY BY ROOM NUMBER ON THE INTERIOR ELEVATION SHEETS.

MATCHLINE FLAG

PLAN AND TRUE NORTH INDICATOR: THE HEAVY LINE REPRESENTS PLAN NORTH (USUALLY TOWARD THE TOP OF THE SHEET) THE SMALL ARROW INDICATES TRUE NORTH (IF DIFFERENT FROM PLAN NORTH).

W00 — WALL TYPE INDICATOR: REFER TO THE WALL TYPES SHEET FOR WALL TYPE ASSEMBLY.

AC-1 — WINDOW OR LOUVER TYPE INDICATOR: WINDOWS HAVE A NUMBER DESIGNATION LOUVERS HAVE A LETTER DESIGNATION

601 — WORK NOTE INDICATOR

9'-0" — CEILING HEIGHT ABOVE FLOOR

1 / A101 — DETAIL IDENTIFICATION: DASHED LINE INDICATES EXTENT OF ENLARGED PLAN OR DETAIL

ROOM NAME
P28-2308 — ROOM IDENTIFICATION:

2308A — DOOR IDENTIFICATION:
DOOR NUMBER=NUMBER OF ROOM ACCESSED
MULTIPLE DOORS ARE GIVEN AN ALPHABETICAL SUFFIX ENDING WITH LETTER 'A' FOR THE SECOND DOOR, 'B' FOR THE THIRD DOOR, ETC. (THE FIRST DOOR IN A ROOM NEVER HAS A LETTER SUFFIX.)

1 — REVISION MARKER: TRIANGLE CONTAINS REVISION DOCUMENT NUMBER
REVISION DOCUMENT IS NUMBERED IN TITLEBLOCK AT RIGHT
CLOUD INDICATES AREA OF REVISION

DISCIPLINE INDEX

A	ARCHITECTURAL DRAWINGS
C	CIVIL OR SURVEY DRAWINGS
E	ELECTRICAL DRAWINGS
L	LANDSCAPE DRAWINGS
M	MECHANICAL DRAWINGS
G	GENERAL INFORMATION
P	PLUMBING DRAWINGS
S	STRUCTURAL DRAWINGS
T	TECHNOLOGY DRAWINGS

CONTENT INDEX

0	GENERAL INFORMATION AND STANDARDS
1	PLANS INCLUDING SITE, FLOOR, CEILING, FINISH AND ROOF DRAWINGS
2	EXTERIOR ELEVATIONS AND BUILDING SECTIONS
4	ENLARGED FLOOR PLANS AND INTERIOR ELEVATIONS
5	SCHEDULES AND ASSOCIATED DETAILS
6	WALL SECTIONS AND DETAILS
7	SUPPLEMENTAL DRAWINGS
8	SUPPLEMENTAL DRAWINGS

SHEET NUMBERING

DISCIPLINE ABBREVIATION
DRAWING CONTENT CATEGORY
SHEET NUMBER

A-401

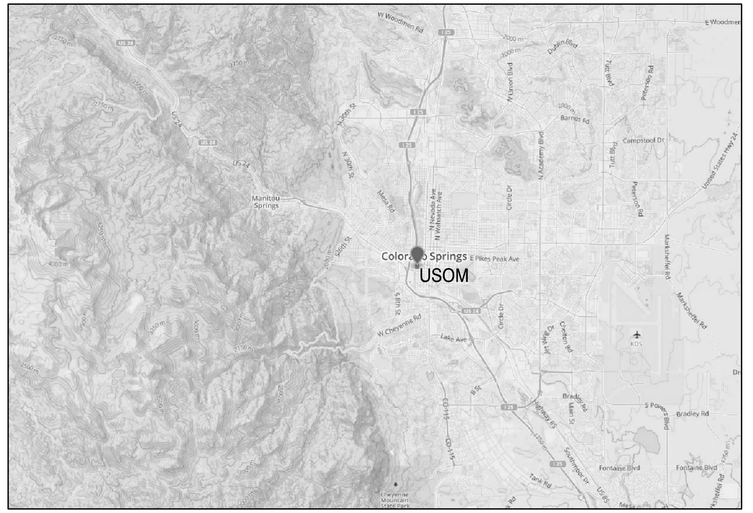
MATERIAL PATTERNS

- BATT INSULATION
- BRICK
- CAST-IN-PLACE CONCRETE
- CONCRETE BLOCK
- EARTH OR BACKFILL
- STEEL
- PLASTER & GYPSUM BOARD
- PLYWOOD
- PRECAST CONCRETE
- RIGID INSULATION

TEXT SYMBOLS

&	AND
@	AT
(	BY
#	POUND OR NUMBER
/ OR :	PER
X'	(X) FEET
X"	(X) INCHES

REGIONAL MAP



VICINITY MAP

US OLYMPIC MUSEUM

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ABBREVIATIONS, SYMBOLS LEGEND AND MAPS

DRAWING NO.
G-001

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NOTE : All elevations indicated on Arch. DWGs are +0'-0" relative to survey elevation +5965.0

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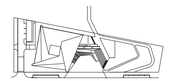
KEY PLAN



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LEVEL -1 PLAN (BASEMENT)
1/16" = 1'-0"

DRAWING NO.
G-100

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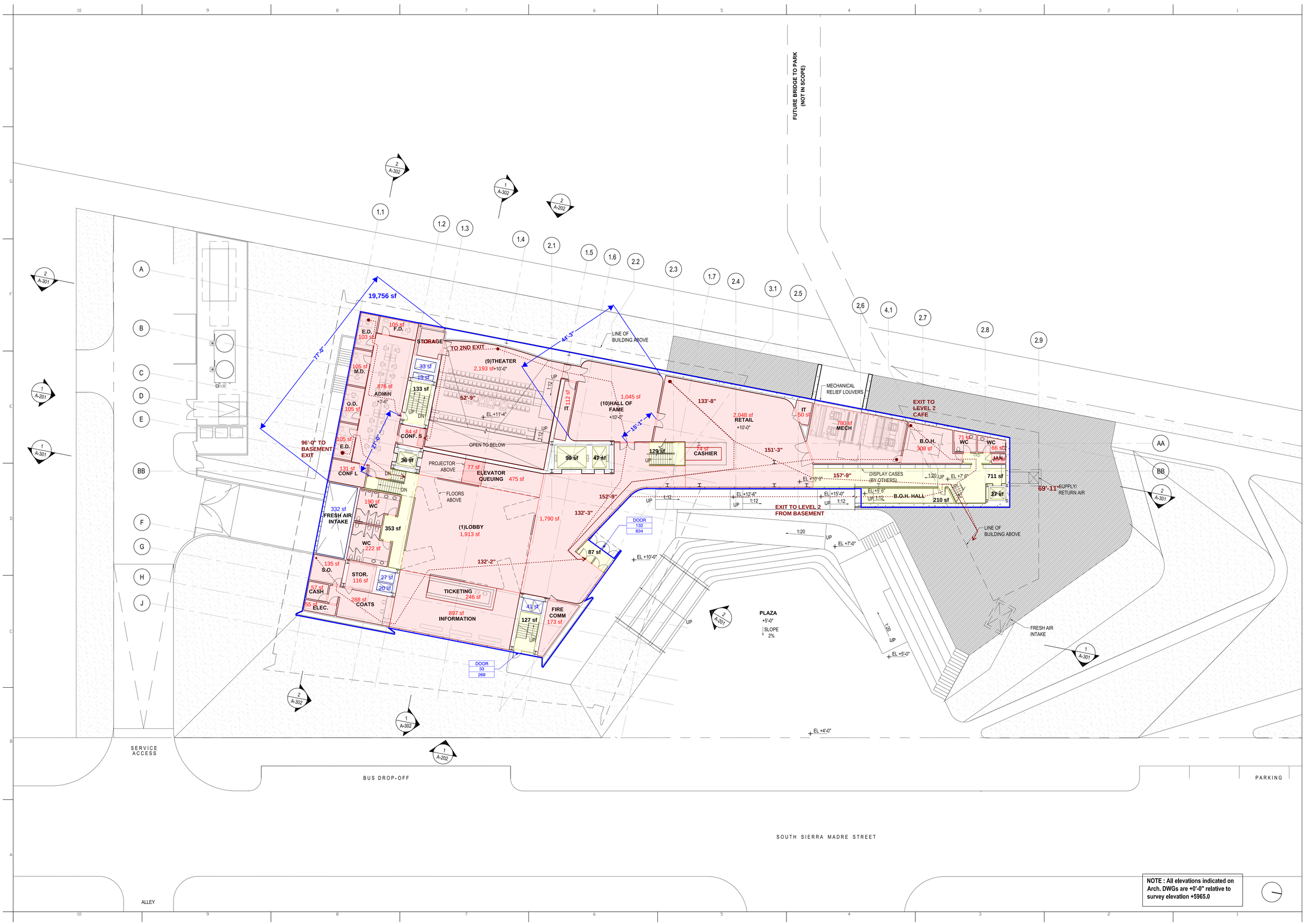

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2525 S. WADSWORTH BLVD. #200
LAKEWOOD, COLORADO 80227
T: 303.988.4514

ELECTRICAL ENGINEER:
ME ENGINEERS
3425 AUSTIN BLUFFS PKWY, 201
COLORADO SPRINGS, COLORADO 80918
T: 719.536.0036

ACOUSTICS:
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77 WATER STREET
New York, New York 10005
T: 212.896.3000

LIGHTING:
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40 WORTH STREET, SUITE 703
New York, New York 10013
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LANDSCAPE ARCHITECTS:
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CODE
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IROS ELEVATOR DESIGN SERVICES
884 PATERSON AVE
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T: 973.77.4404

CIVIL
KIOWA
1604 S. 21ST STREET
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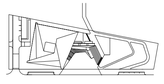
T: 719.630.7342

FIRE ALARM AND SPRINKLER, ATRIUM FIRE SMOKE
JENSEN HUGHES
4445 NORTHPARK DRIVE, SUITE 204
COLORADO SPRINGS, COLORADO 80907
T: 720.441.6608

KEY PLAN



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14011

TITLE
LEVEL 1 PLAN (GROUND FLOOR)
1/16" = 1'-0"

DRAWING NO.
G-101

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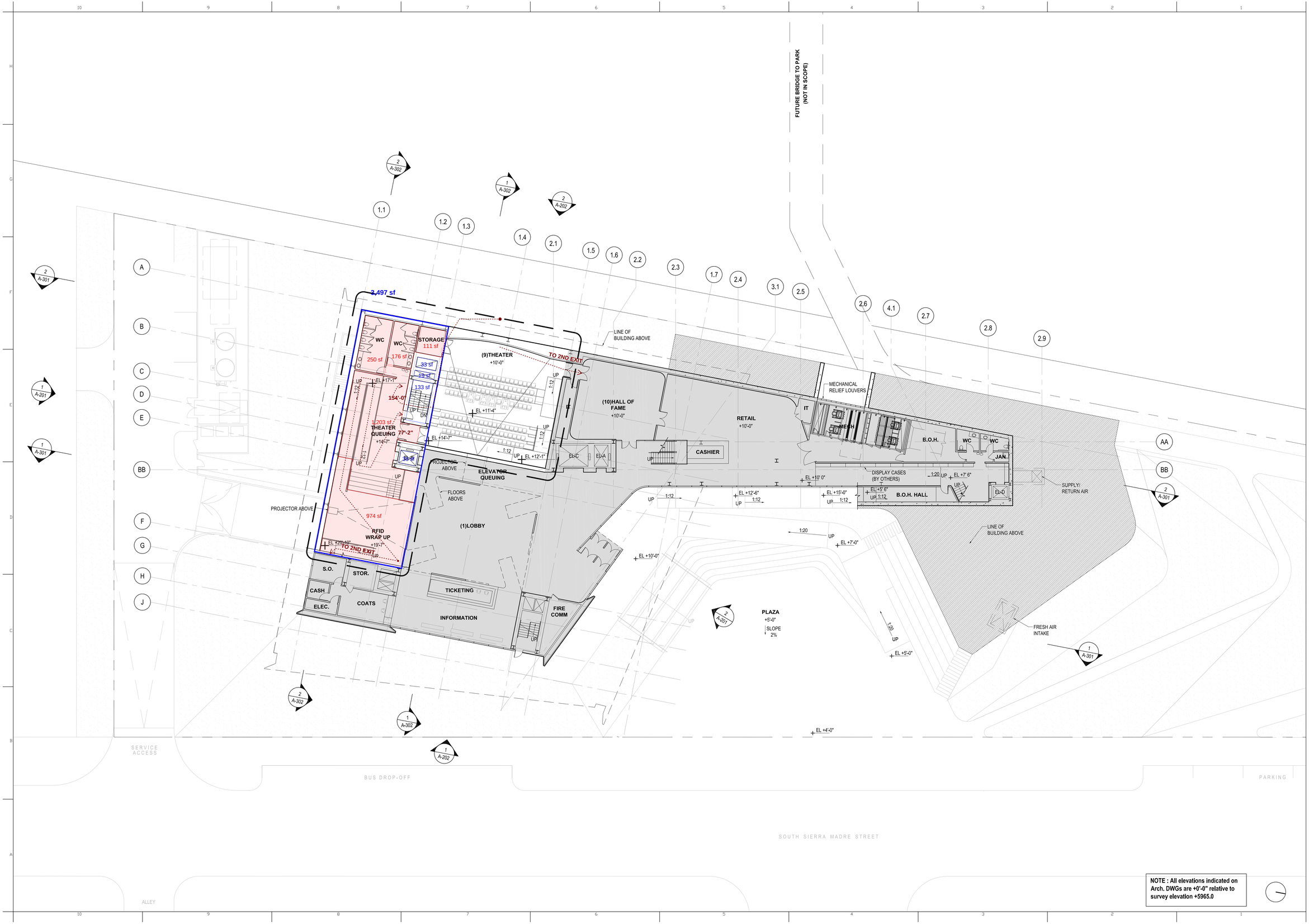

US OLYMPIC MUSEUM

OWNER:
United States Olympic Museum
P.O. Box 681
Colorado Springs, CO 80901
T: 719.358.6325

EXECUTIVE ARCHITECT:
Anderson Mason Dale Architects
3198 Speer Boulevard
Denver, CO 80211
T: 303.294.9448

DESIGNER:
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JENSEN HUGHES
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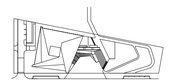
COLORADO SPRINGS, COLORADO 80907
T: 720.441.6608

KEY PLAN



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LEVEL 1 MEZZANINE PLAN
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G-101a

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FUTURE BRIDGE TO PARK
(NOT IN SCOPE)

12,845 sf

(6) PARADE OF NATIONS
+31'-8"

IT

EXHIBIT LIGHT C./AV

JAN

WC

ELEC

EL=8

WC

114'-6"

238'-6"

162'-11"

(7A) AT THE GAMES SUMMER
+28'-6"
3,025 sf

WC
156 sf

157 sf
WC

AV
55 sf

384 sf
CATERING

EVENT
+26'-0"
2,034 sf

90'-4"

929 sf
EVENT TERRACE
+26'-0"

DOOR
33
73

98 sf

42 sf

384 sf

1,416 sf

CAFE TERRACE
+17'-6"
1,467 sf

LINE OF ROOF ABOVE
2,101 sf

118'-2"

(5) SCIENCE AND TECHNOLOGY LAB
+34'-2"

TO 2ND EXIT

99 sf
DISPLAY CASE
(BY OTHERS)

27 sf

20 sf

2,396 sf
(8) THE MAGIC OF MEDIA
+23'-0"

166'-8"

91'-3"

(7B) AT THE GAMES WINTER
1,327 sf

41 sf

117 sf

800 sf

2,461 sf

64 sf

22 sf

KITCHEN
307 sf

CAFE
+17'-6"
1,296 sf

FROM LEVEL 1

160 sf
SERVE

FRESH AIR INTAKE

LINE OF ROOF ABOVE

SERVICE ACCESS

BUS DROP-OFF

PARKING

SOUTH SIERRA MADRE STREET

ALLEY

NOTE : All elevations indicated on Arch. DWGs are +0'-0" relative to survey elevation +5965.0

US OLYMPIC MUSEUM

OWNER:
United States Olympic Museum
P.O. Box 681
Colorado Springs, CO 80901
T: 719.358.6325

EXECUTIVE ARCHITECT:
Anderson Mason Dale Architects
3198 Speer Boulevard
Denver, CO 80211
T: 303.294.9448

DESIGNER:
Diller Scofidio+Renfro
601 West 26 Street–1815
New York, New York 10001
T: 212.260.7971

STRUCTURAL DESIGN:
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KEY PLAN

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TITLE
LEVEL 2 PLAN
1-16" = 1'-0"

DRAWING NO.
G-102

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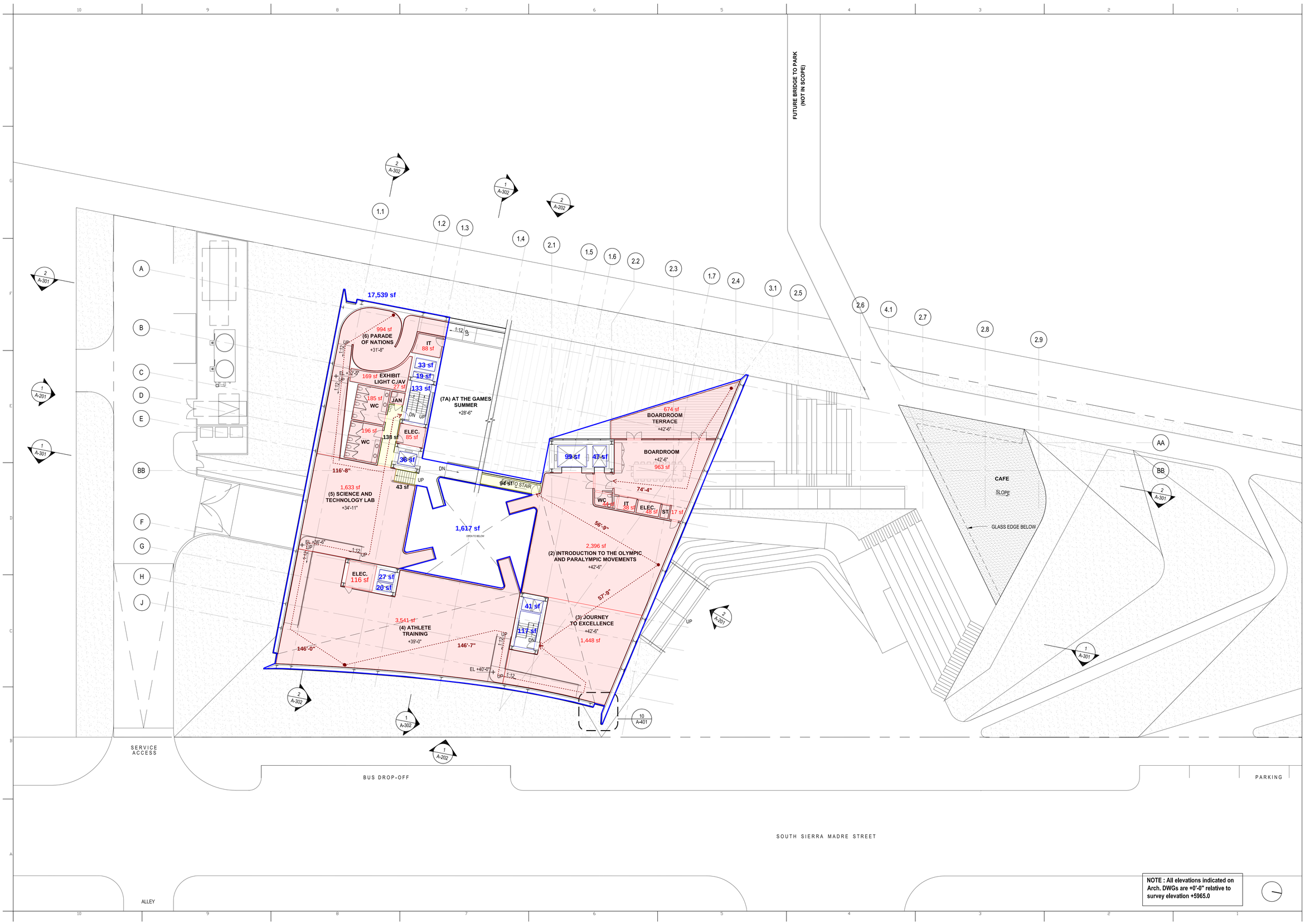

NOTE : All elevations indicated on Arch. DWGs are +0'-0" relative to survey elevation +5965.0

US OLYMPIC MUSEUM

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United States Olympic Museum
P.O. Box 681
Colorado Springs, CO 80901
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EXECUTIVE ARCHITECT:
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DESIGNER:
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LANDSCAPE ARCHITECTS:
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T: 212.337.9973

EXECUTIVE LANDSCAPE ARCHITECTS:
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JENSEN HUGHES
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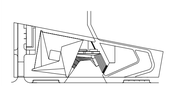
COLORADO SPRINGS, COLORADO 80907
T: 720.441.6608

KEY PLAN



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TITLE
LEVEL 3 PLAN (UPPER FLOOR)
1/16" = 1'-0"

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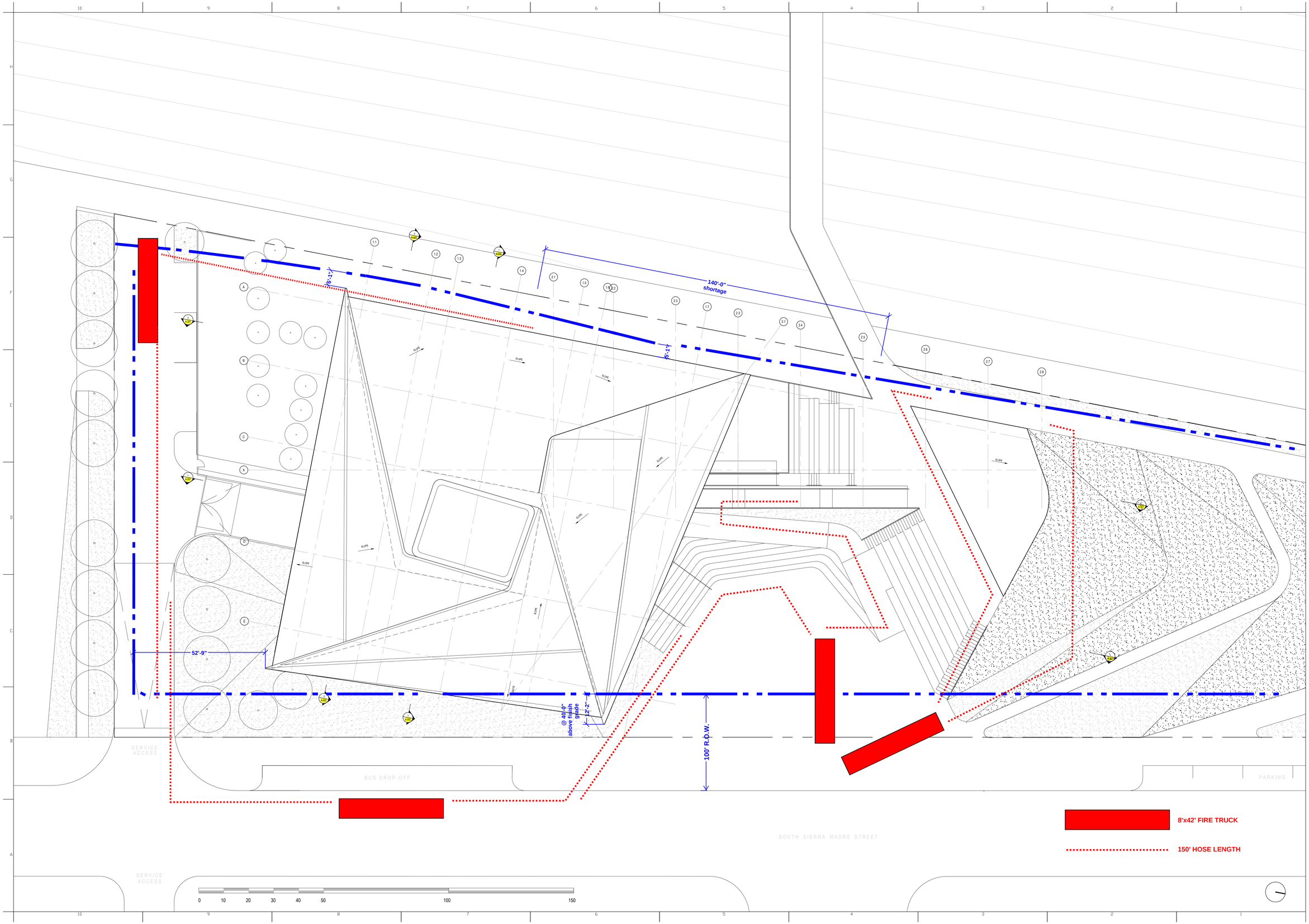

US OLYMPIC MUSEUM

United States Olympic Museum
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Colorado Spring, CO 80901
719.578.4608
OWNER:

Anderson Mason Dale Architects
3198 Speer Boulevard
Denver, CO 80211
303.433.3198
EXECUTIVE ARCHITECT:

DESIGNER:
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STRUCTURAL DESIGN:
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New York, New York 10014
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JENSEN HUGHES
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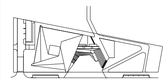
KEY PLAN



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ROOF PLAN

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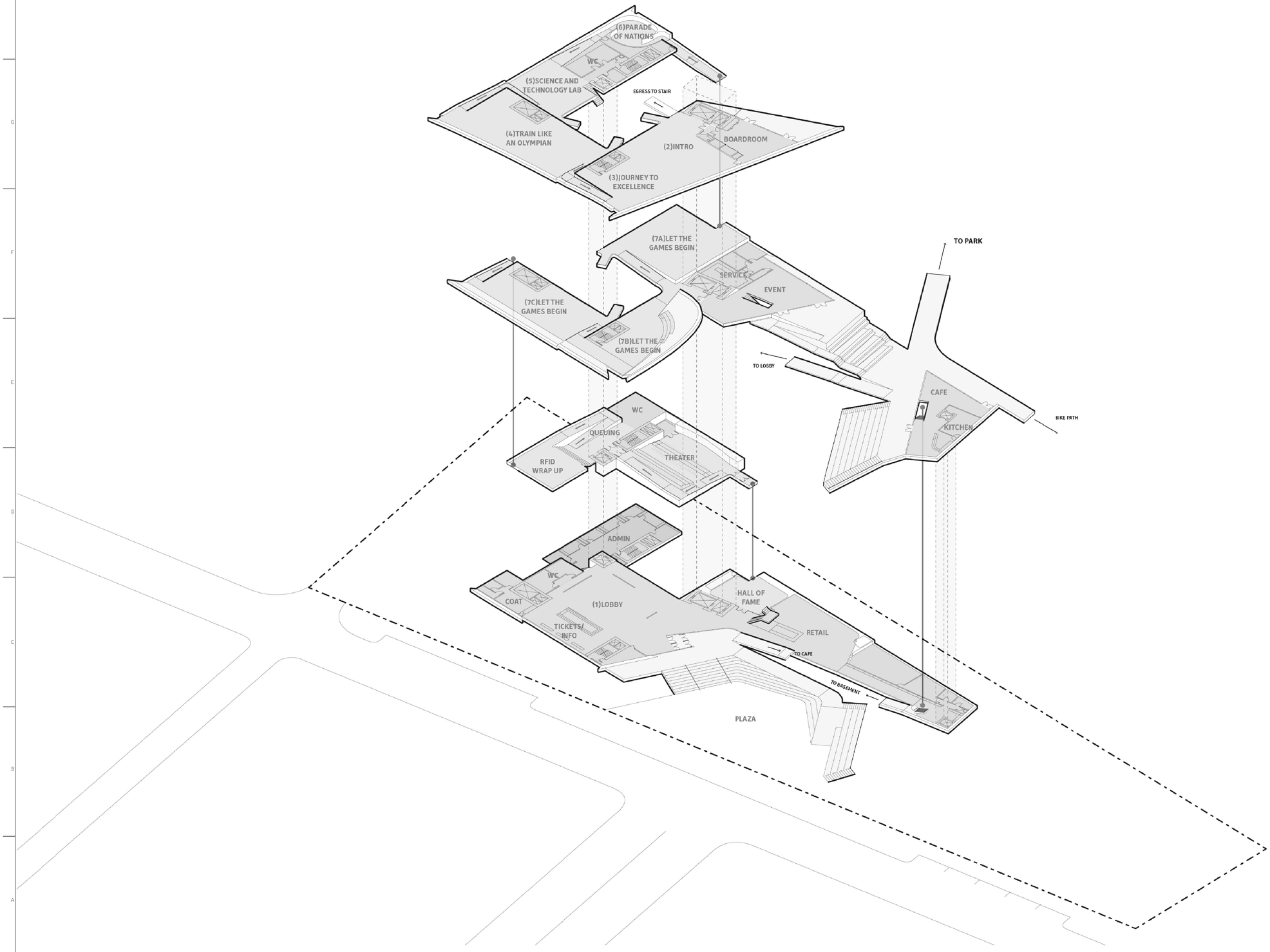

US OLYMPIC MUSEUM

United States Olympic Museum
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Colorado Spring, CO 80901
OWNER: 358.6325

Anderson Mason Dale Architects
3198 Speer Boulevard
Denver, CO 80211
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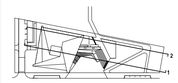
KEY PLAN



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Denver & Rio Grande Western Rail Yard R.O.W.

South Sierra Madre Street

West Vermijo Avenue

1.663 ACRES

EXISTING METAL BUILDING 20.0'± TALL

EXISTING STUCCO BUILDING 16.0'± TALL FF=5968.51

EXISTING METAL BUILDING 20.0'± TALL

EXISTING CONC. UPHEAVAL

EXISTING 18" DIP STORM

EXISTING GRATED INLET TOP GRATE = 5973.33 INV 12" OUT = 5971.13

EXISTING 4' INLET TOP INLET = 5973.64 TOP INLET = 5973.75 INV 12" OUT = 5969.84

EXISTING GRATED INLET TOP GRATE = 5973.14 INV 18" OUT = 5971.72

EXISTING STORM MH RIM = 5973.73 INV = 5969.75

APPROXIMATE LOCATION OF EXISTING 24"± STORM SEWER

EX. SANITARY MH RIM=5978.23 INV. IN=5957.37 INV. OUT=5957.33

EX. SANITARY MH RIM=5971.83 (5974) INV. IN=5959.28 INV. IN=5958.01 INV. OUT=5957.85

FH 154-D

FH 175-D

SAN. SEWER MH #801

SAN. SEWER MH #806

ELEC VAULT

ELEC VAULT

(5972) ELEC VAULT

ABANDONED POWER POLE

GAS METER

EXISTING GUY WIRE

EXISTING GUY WIRE

WELL MONITOR

WELL MONITOR

WELL MONITOR

WELL MONITOR

WELL MONITOR

RR SWITCH

RR SWITCH

END R.R. TRACKS

END R.R. TRACKS

BEGIN RR TIE RET. WALL
END CONC. RET. WALL

RR TIE RETAINING WALL w/CHAINLINK FENCE ON INSIDE FACE

RR TIE RETAINING WALL

ENCROACHMENT EASEMENT (BK.5525–PG.741)

EASEMENT (BK.5525 – PG. 1117

EXCEPTION TO THE CITY OF COLORADO SPRINGS, (BK.2277–PG.533)

COLORADO SPRINGS R.O.W. BK 1749 – PG. 86

EXISTING NO PARKING SIGNS

EXISTING NO PARKING SIGN ON POLE

STEEL SIGN POST

EXISTING BARRICADE

Δ=04°25'20"
R=1473.61
L=113.74

N15°43'11"E 100.00'

N74°16'49"W 0.69

N11°31'54"E 351.28'

S01°58'12"W 542.40'

S78°24'06"E 63.85'

N88°01'49"W 179.73'

30" VCP SAN. SEW.

16" DIP WATER

8" VCP SAN. SEW.

18" VCP SAN. SEW.

8" DIP WATER

6" DIP WATER

EXISTING SOLID WHITE STRIPE

EXISTING DOUBLE YELLOW STRIPE

EDGE OF ASPHALT

ASPHALT

CONCRETE

GRAVEL

RR TRACKS

(5967) (5968) (5969) (5970) (5971) (5972) (5973) (5974) (5975) (5976) (5977) (5978) (5979)

EX OHE EX FO EX UGE EX SS EX G EX W EX STM

0 20' 40'

SCALE: 1"=20'

US OLYMPIC MUSEUM

OWNER:
United States Olympic Museum
P.O. Box 681
Colorado Spring, CO 80901
T: 719.358.6325

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T: 212.260.7971

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GOLDEN, COLORADO 80401
T: 303.384.9910

MECHANICAL / PLUMBING ENGINEER:
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LAKEWOOD, COLORADO 80227
T: 303.989.4514

ELECTRICAL ENGINEER:
ME ENGINEERS
3425 AUSTIN BLUFFS PKWY, 201
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T: 719.536.0036

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LIGHTING:
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New York, New York 10013
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LANDSCAPE ARCHITECTS:
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T: 212.337.9973

EXECUTIVE LANDSCAPE ARCHITECTS:
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T: 719.471.0073

CODE
ADVANCED CONSULTING ENGINEERS
3900 S. WADSWORTH BLVD, SUIT 595
LAKEWOOD, CO 80235
T: 720.981.4150

VERTICAL CIRCULATION
IROS ELEVATOR DESIGN SERVICES
884 PATERSON AVE
EAST RUTHERFORD, NJ 07073
T: 973.77.4404

CIVIL
KIOWA
1604 S. 21ST STREET
COLORADO SPRINGS, COLORADO 80904
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FIRE ALARM AND SPRINKLER, ATRIUM FIRE SMOKE
JENSEN HUGHES
4445 NORTHPARK DRIVE, SUITE 204
COLORADO SPRINGS, COLORADO 80907
T: 720.441.6608

KEY PLAN

PRINTING	DATE
100% SCHEMATIC DESIGN	07.10.2015

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PROJECT NUMBER: 14011 / 15023 Kiowa

TITLE
EXISTING CONDITIONS

1" = 20'-0"

DRAWING NO.
C-100

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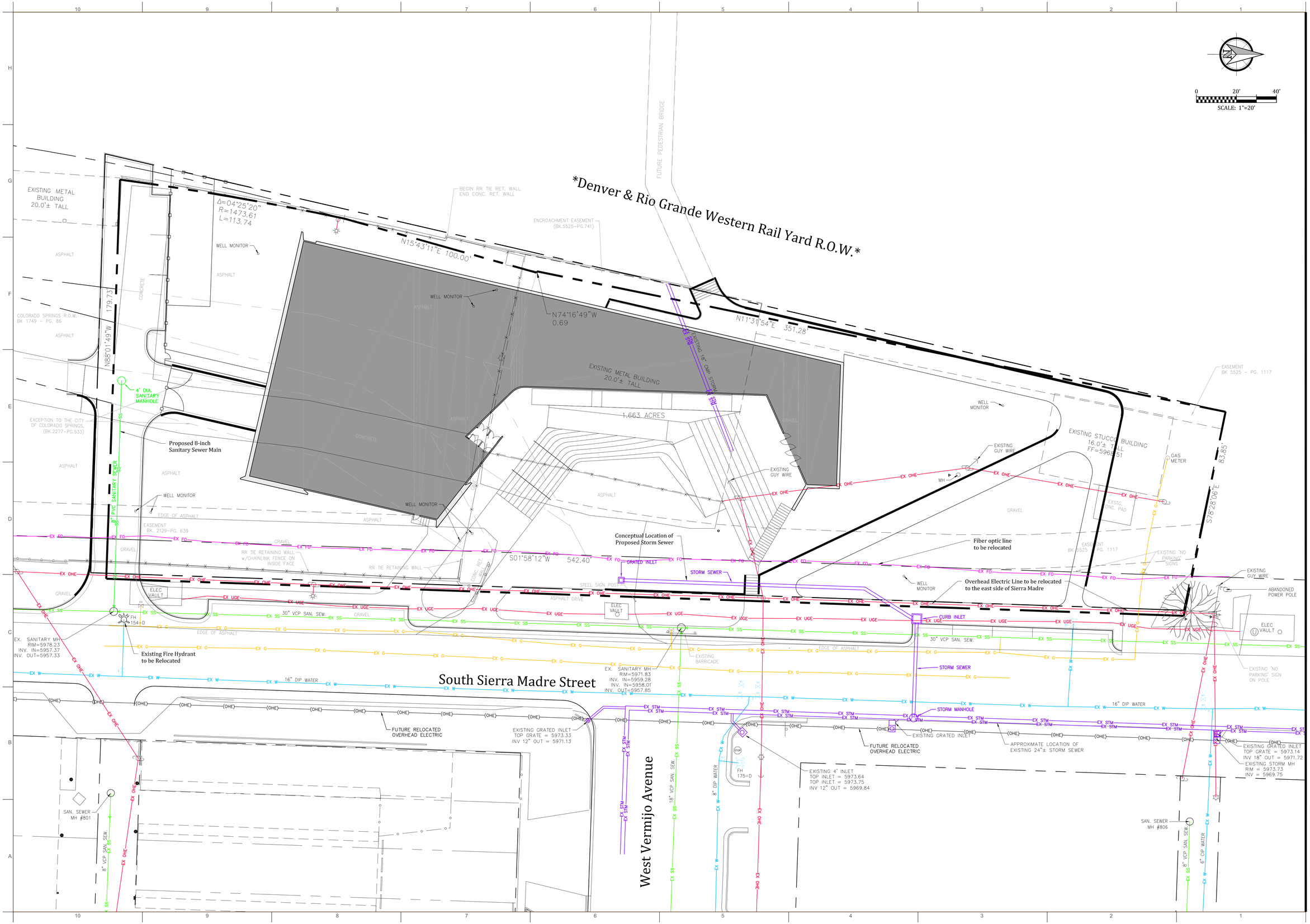

0 20' 40'

SCALE: 1"=20'

US OLYMPIC MUSEUM

OWNER:
United States Olympic Museum
P.O. Box 681
Colorado Spring, CO 80901
T: 719.358.6325

EXECUTIVE ARCHITECT:
Anderson Mason Dale Architects
3198 Speer Boulevard
Denver, CO 80211
T: 303.294.9448

DESIGNER:
Diller Scofidilo+Renfro
601 West 26 Street–1815
New York, New York 10001
T: 212.260.7971

EXHIBIT DESIGN:
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STRUCTURAL DESIGN:
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JENSEN HUGHES
4445 NORTHPARK DRIVE, SUITE 204
COLORADO SPRINGS, COLORADO 80907
T: 720.441.6608

KEY PLAN

PRINTING	DATE
100% SCHEMATIC DESIGN	07.10.2015

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PROJECT NUMBER
14011 / 15023 Kiowa

TITLE
PRELIMINARY UTILITY PLAN

1" = 20'-0"

DRAWING NO.
C-101

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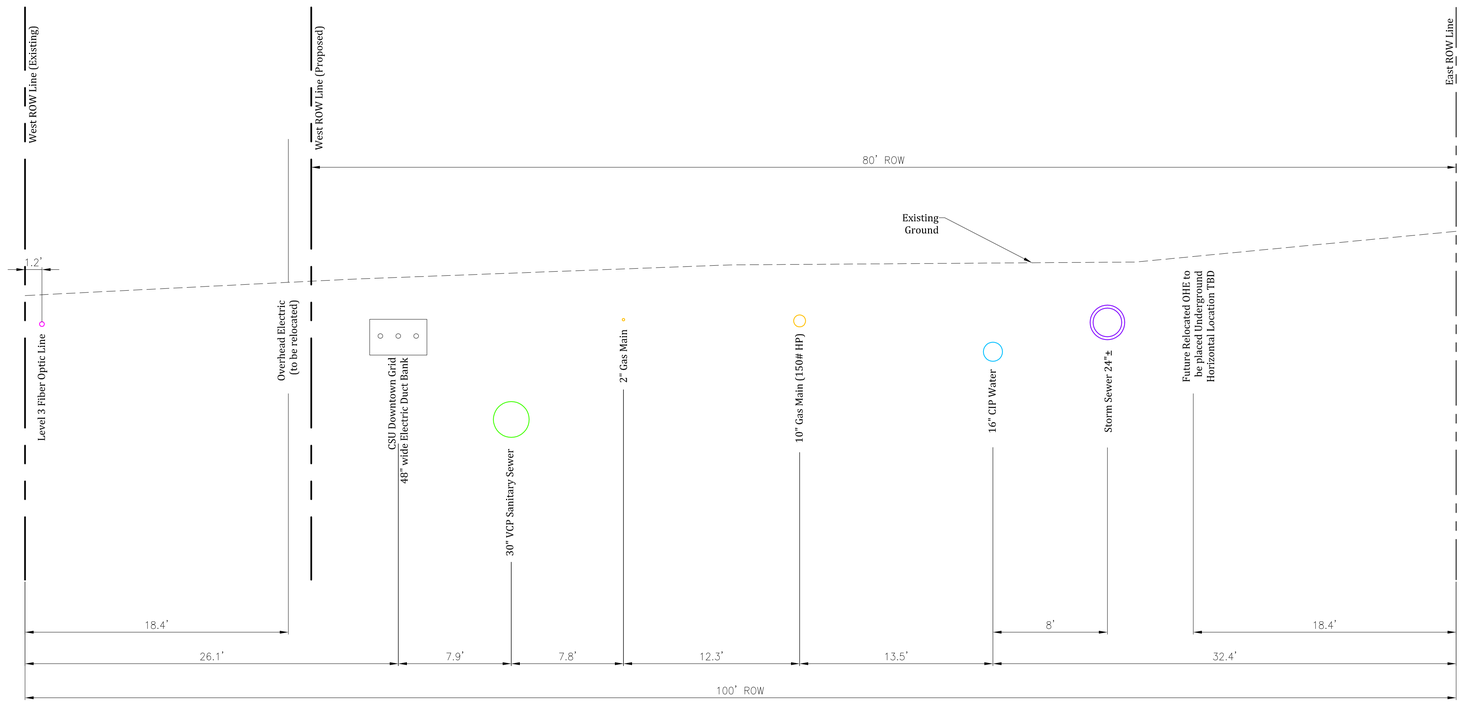

Sierra Madre Street
Cross Section
Scale: 1"=5'

US OLYMPIC MUSEUM

OWNER:
United States Olympic Museum
P.O. Box 681
Colorado Spring, CO 80901
T: 719.358.6325

EXECUTIVE ARCHITECT:
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JENSEN HUGHES
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COLORADO SPRINGS, COLORADO 80907
T: 720.441.6608

KEY PLAN

PRINTING	DATE
100% SCHEMATIC DESIGN	07.10.2015

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PROJECT NUMBER
14011 / 15023 Kiowa

TITLE
PROFILE SECTION

1" = 5'-0"

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C-102

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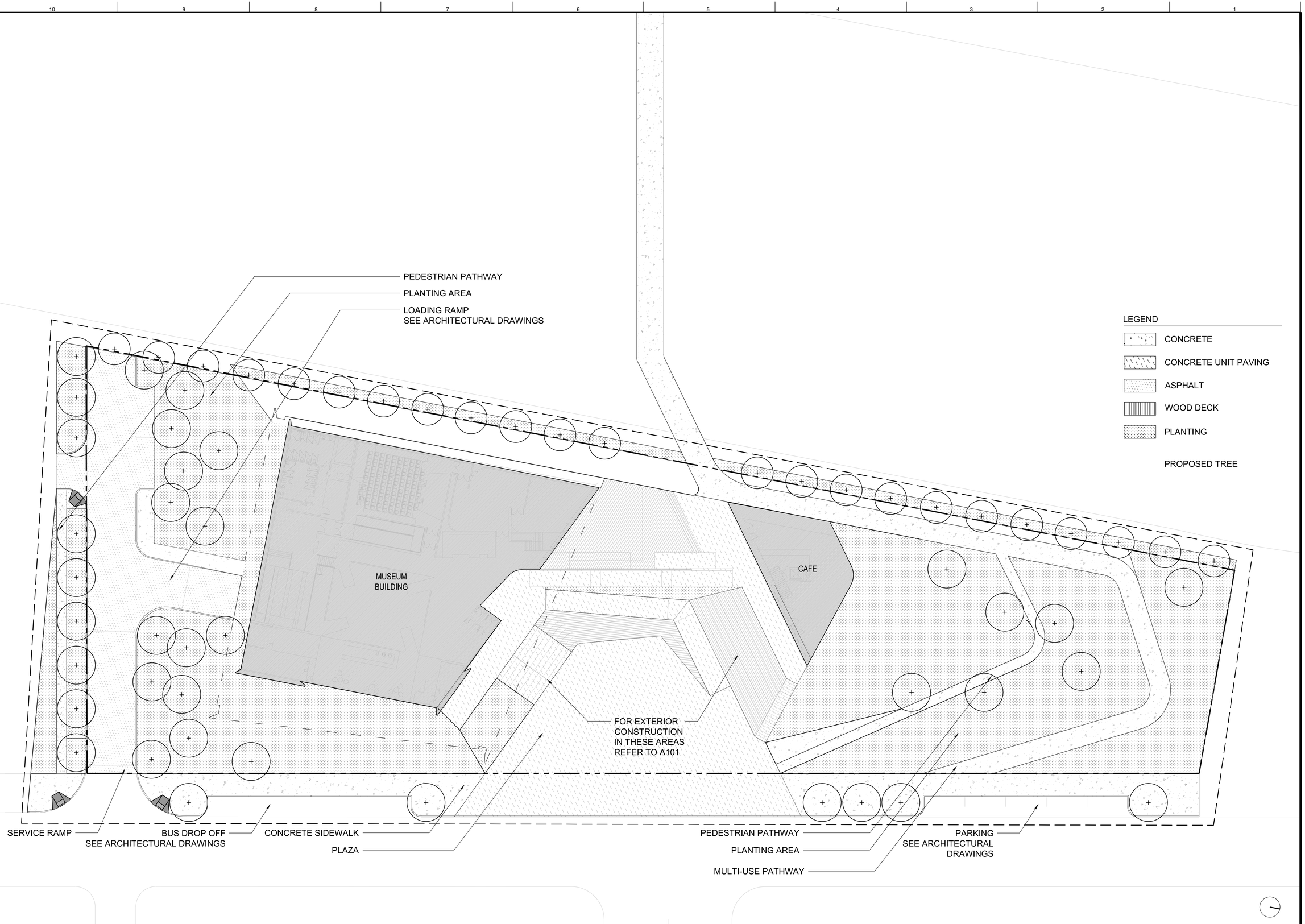

LEGEND

- CONCRETE
- CONCRETE UNIT PAVING
- ASPHALT
- WOOD DECK
- PLANTING

PROPOSED TREE

US OLYMPIC MUSEUM

OWNER:
United States Olympic Museum
P.O. Box 681
Colorado Spring, CO 80901
T: 719.358.6325

EXECUTIVE ARCHITECT:
Anderson Mason Dale Architects
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T: 303.294.9448

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COLORADO SPRINGS, COLORADO 80907
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KEY PLAN

PRINTING	DATE
100 SCHEMATIC DESIGN	07.10.2015

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PROJECT NUMBER
14011

TITLE
SITE PLAN

1" = 20'-0"

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L-101

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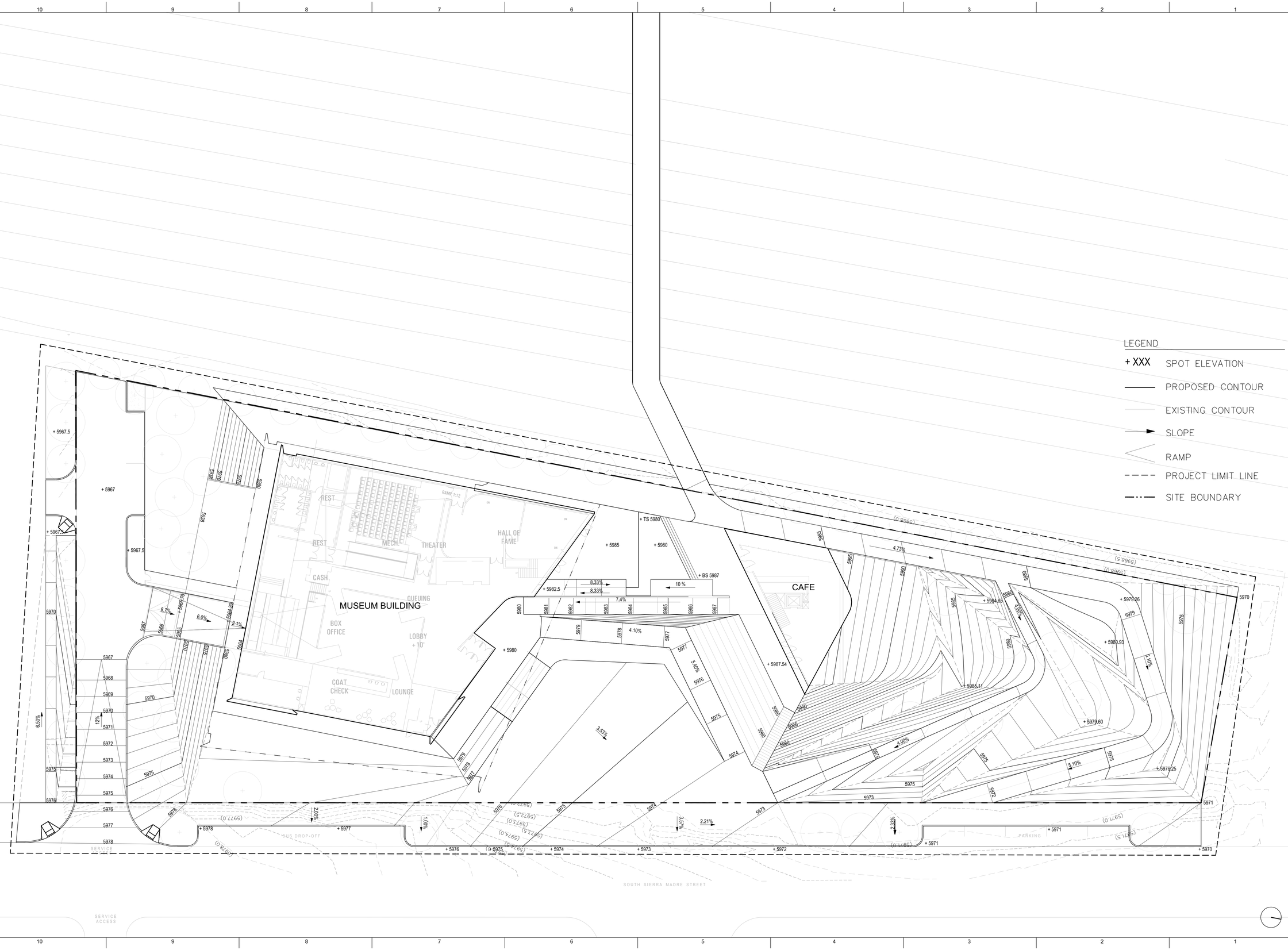

US OLYMPIC MUSEUM

OWNER:
United States Olympic Museum
P.O. Box 681
Colorado Spring, CO 80901
T: 719.358.6325

EXECUTIVE ARCHITECT:
Anderson Mason Dale Architects
3198 Speer Boulevard
Denver, CO 80211
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T: 212.260.7971

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LANDSCAPE ARCHITECTS:
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1604 S. 21ST STREET
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FIRE ALARM AND SPRINKLER, ATRIUM FIRE SMOKE
JENSEN HUGHES
4445 NORTHPARK DRIVE, SUITE 204
COLORADO SPRINGS, COLORADO 80907
T: 720.441.6608

KEY PLAN

PRINTING	DATE
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PROJECT NUMBER
14011

TITLE
GRADING PLAN

1" = 20'-0"

DRAWING NO.
L-102

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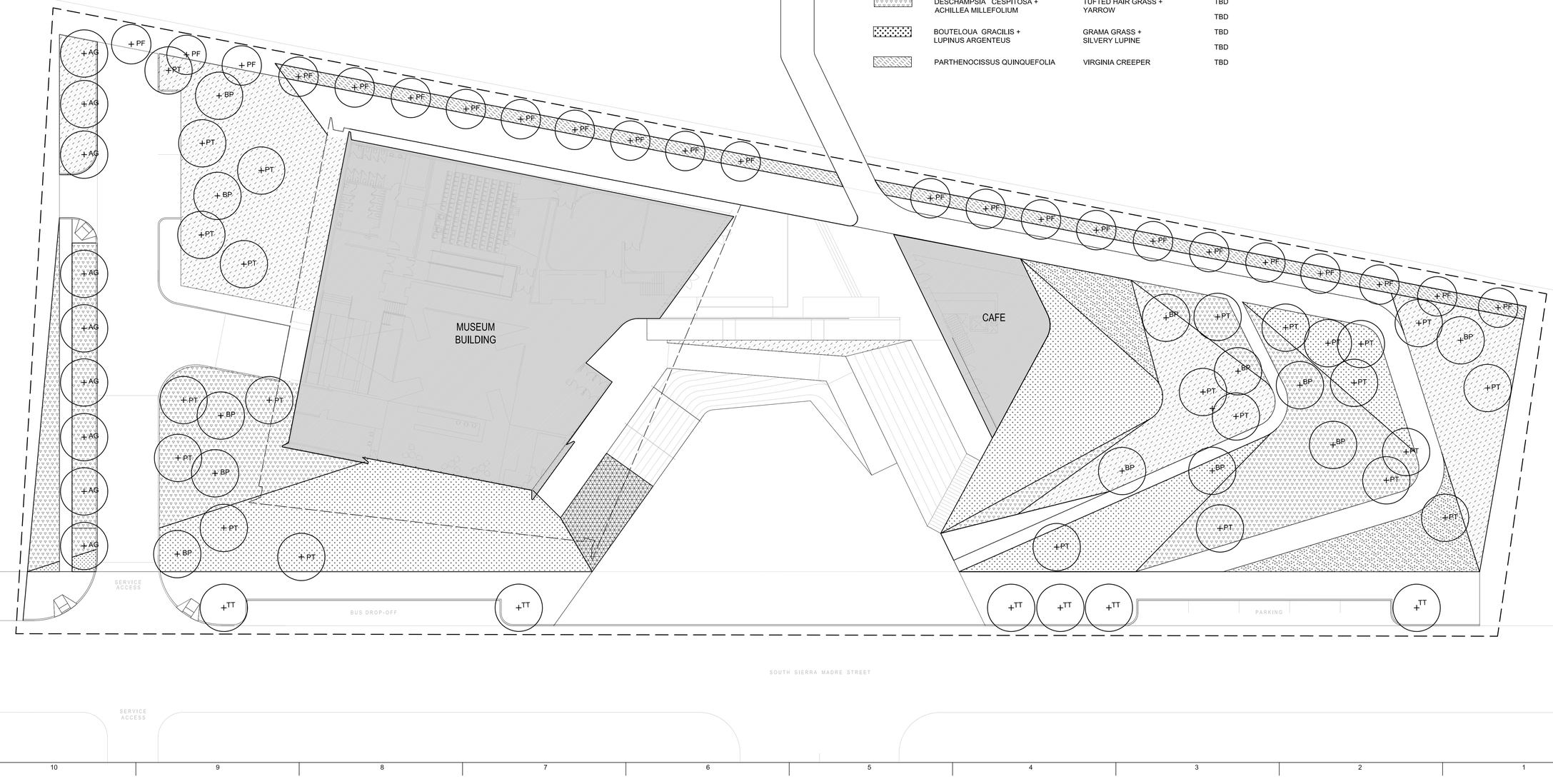
PLANTING SCHEDULE

SYMBOL	SCIENTIFIC NAME	COMMON NAME	SIZE	QUANTITY
TREES				
AG	ACER GRANDIDENTATUM	BIGTOOTH MAPLE	3.5 - 4" CAL	17
BP	BETULA PAPYRIFERA	PAPER BIRCH	3.5 - 4" CAL	12
PF	PINUS FLEXILIS	ROCKY MOUNTAIN WHITE PINE	18 - 20' H	23
PT	POPULUS TREMULOIDES	QUAKING ASPEN	3.5 - 4" CAL	24
TT	TILIA TOMENTOSA	LITTLELEAF LINDEN	3.5 - 4" CAL	7
SHRUBS / GRASSES / GROUNDCOVERS				
	PRUNUS BESSEYI	WESTERN SANDCHERRY	TBD	
	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM GRASS	TBD	
	DESCHAMPSIA CESPITOSA	TUFTED HAIR GRASS	TBD	
	DESCHAMPSIA CESPITOSA + ACHILLEA MILLEFOLIUM	TUFTED HAIR GRASS + YARROW	TBD TBD	
	BOUTELOUA GRACILIS + LUPINUS ARGENTEUS	GRAMA GRASS + SILVERY LUPINE	TBD TBD	
	PARTHENOCISSUS QUINQUEFOLIA	VIRGINIA CREEPER	TBD	



US OLYMPIC MUSEUM

OWNER:
United States Olympic Museum
P.O. Box 681
Colorado Spring, CO 80901
T: 719.358.6325

EXECUTIVE ARCHITECT:
Anderson Mason Dale Architects
3198 Speer Boulevard
Denver, CO 80211
T: 303.294.9448

DESIGNER:
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EXHIBIT DESIGN:
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4445 NORTHPARK DRIVE, SUITE 204
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KEY PLAN

PRINTING	DATE
100% SCHEMATIC DESIGN	07.10.2015

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PROJECT NUMBER
14011

TITLE
PLANTING PLAN

1" = 20'-0"

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L-103

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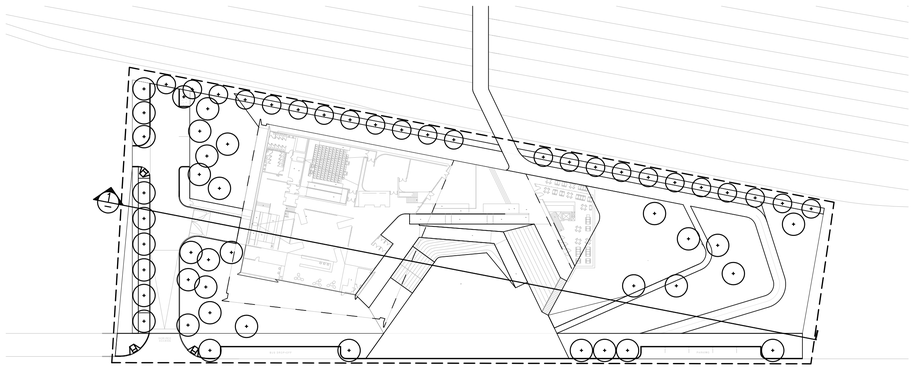
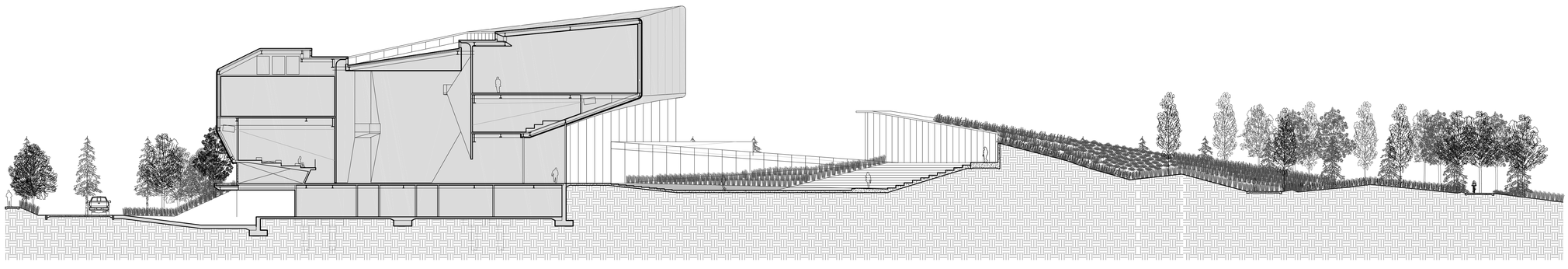


KEY PLAN



1 NORTH - SOUTH SECTION

US OLYMPIC MUSEUM

OWNER:
United States Olympic Museum
P.O. Box 681
Colorado Spring, CO 80901
T: 719.358.6325

EXECUTIVE ARCHITECT:
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PROJECT NUMBER
14011

TITLE
SECTION

1" = 20'-0"

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L-201

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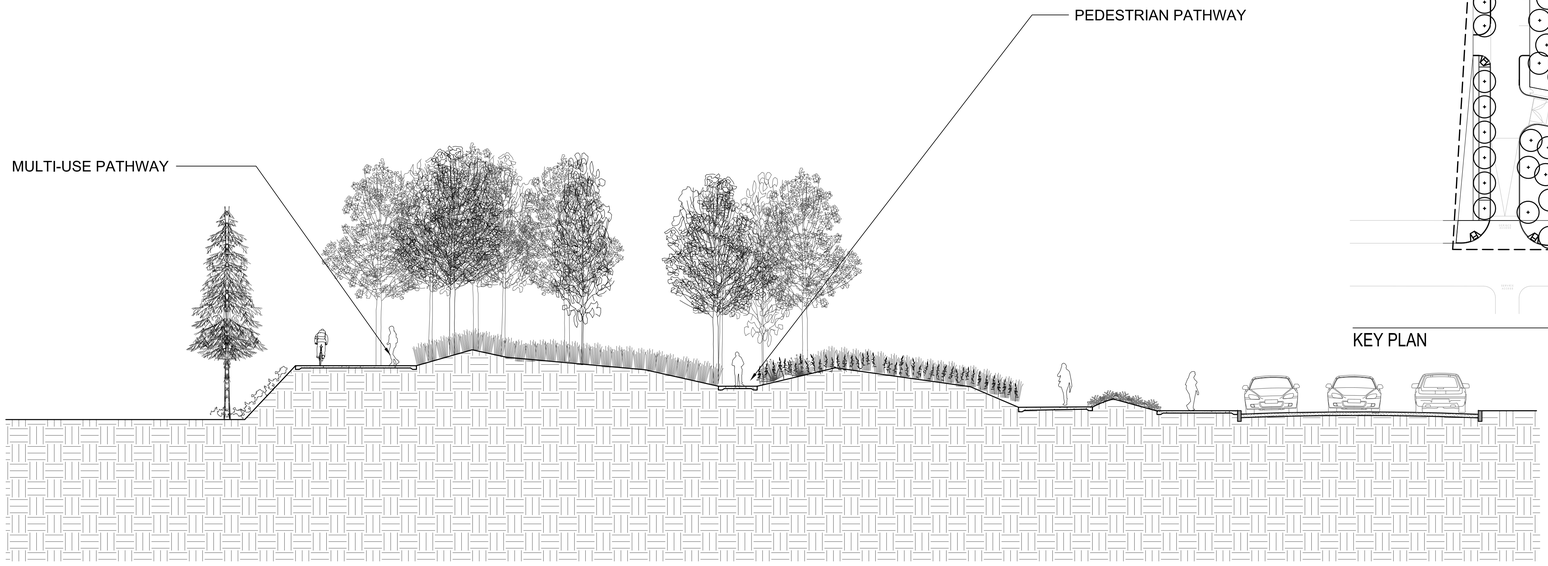
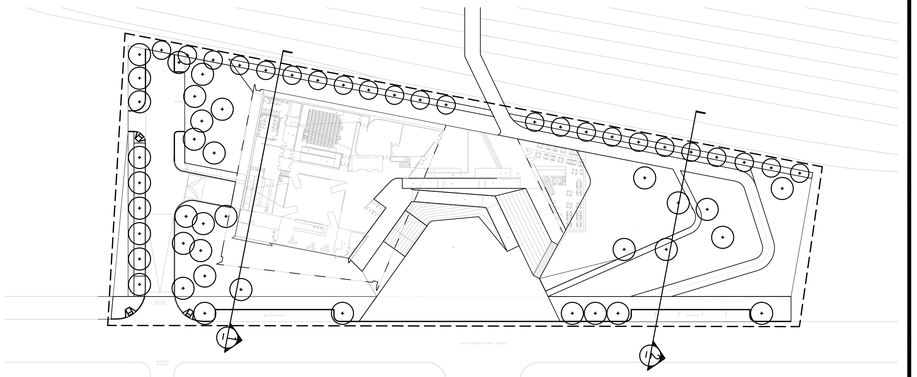
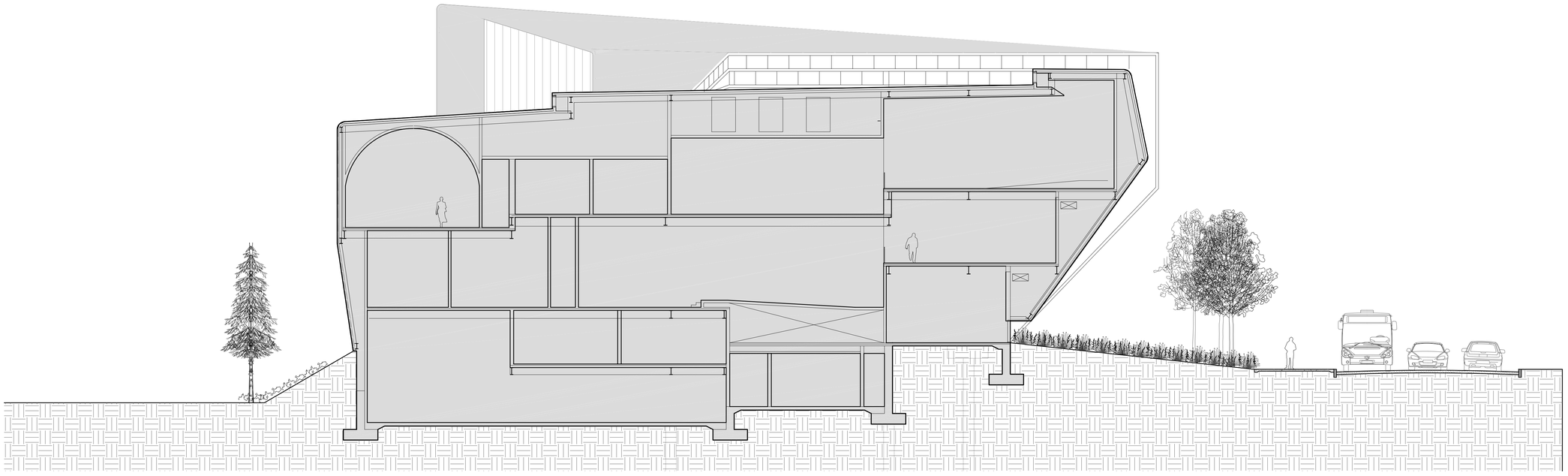


2 EAST - WEST SECTION 2



KEY PLAN



1 EAST - WEST SECTION 1

US OLYMPIC MUSEUM

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Colorado Spring, CO 80901
T: 719.358.6325

EXECUTIVE ARCHITECT:
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DESIGNER:
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T: 212.260.7971

EXHIBIT DESIGN:
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Silver Spring, Maryland 20910
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STRUCTURAL DESIGN:
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TITLE
SECTION

1" = 10'-0"

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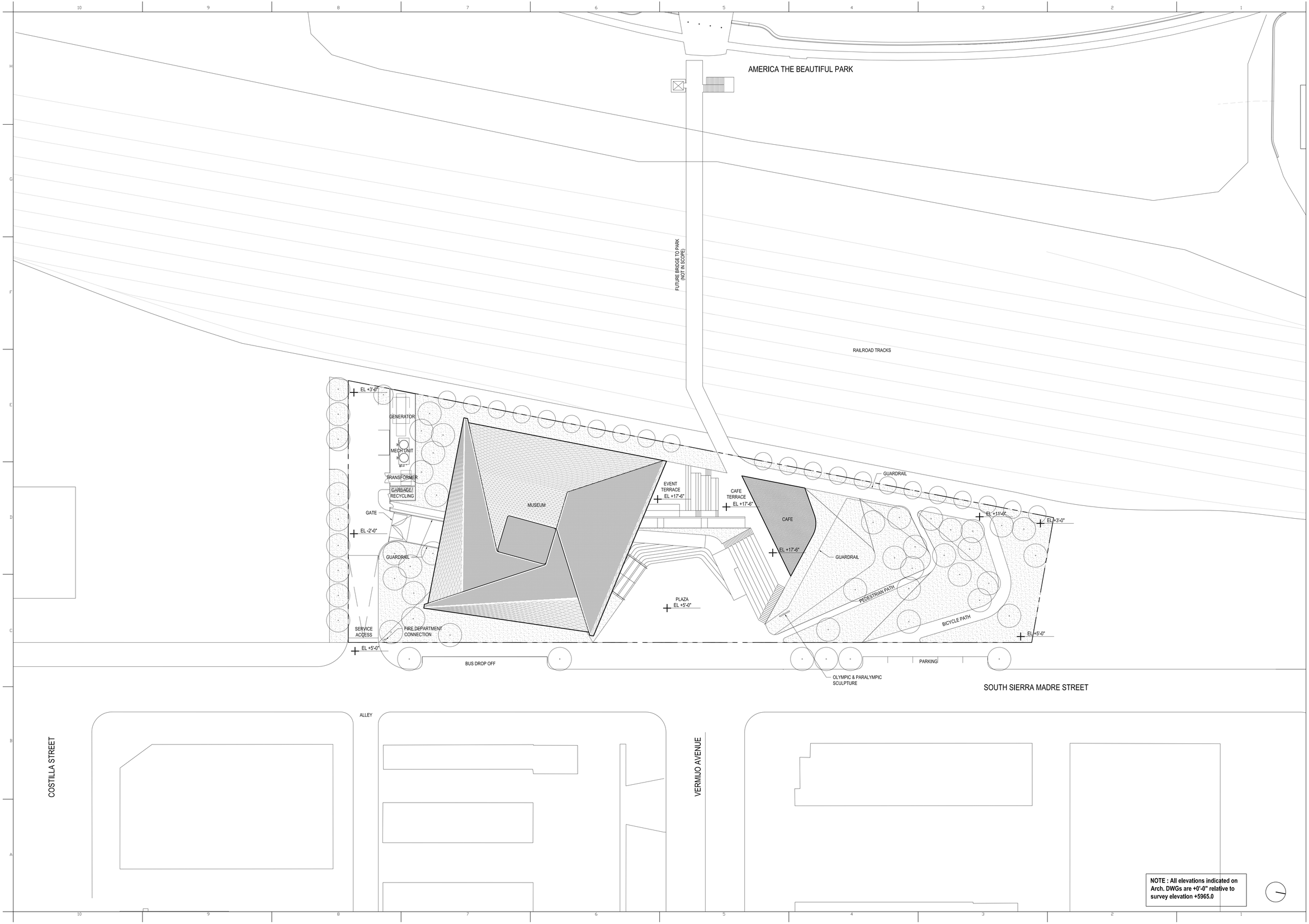

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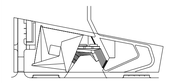

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SITE PLAN
1/32" = 1'-0"

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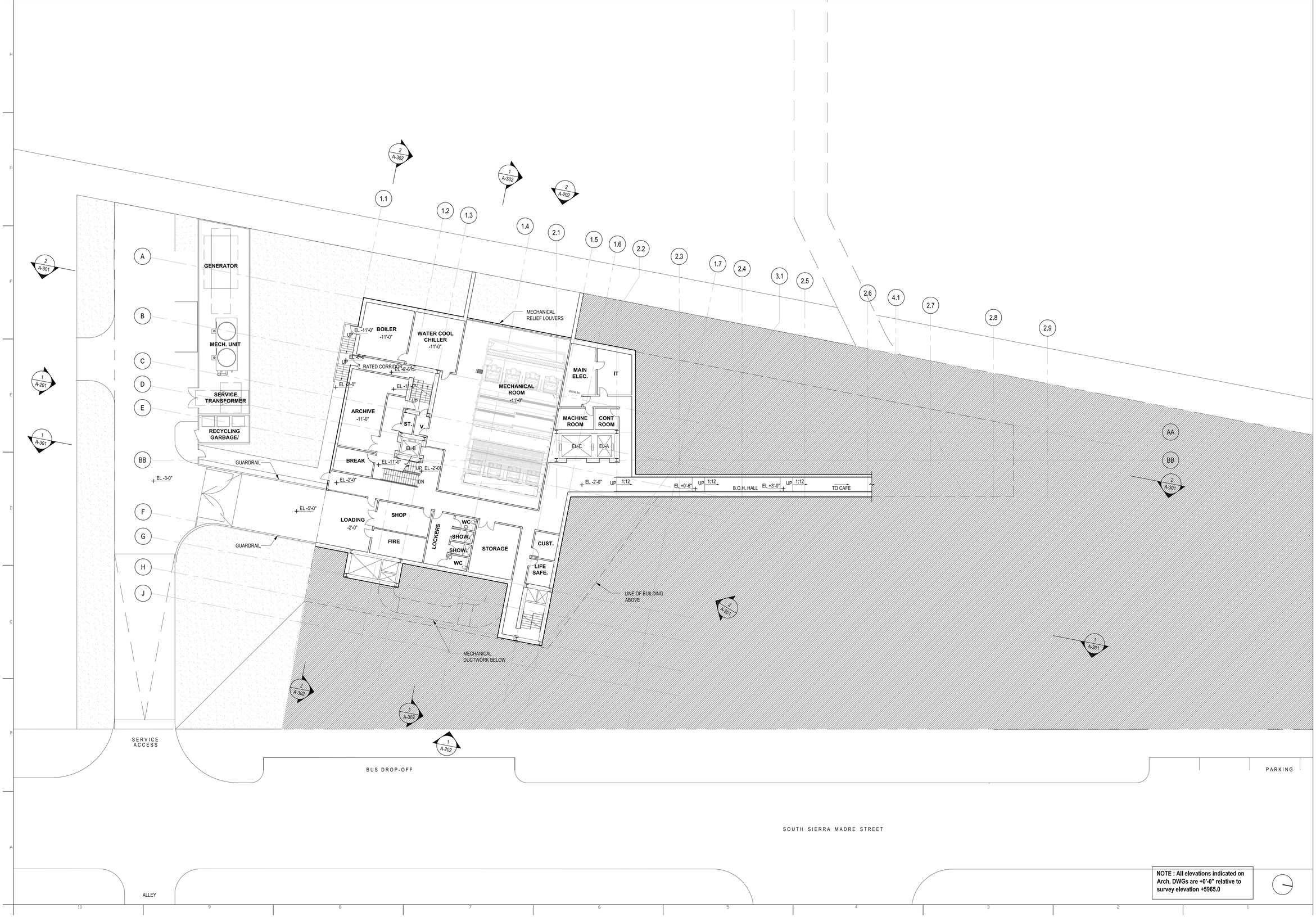

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COLORADO SPRINGS, COLORADO 80907
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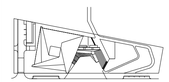
KEY PLAN



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TITLE
LEVEL -1 PLAN (BASEMENT)
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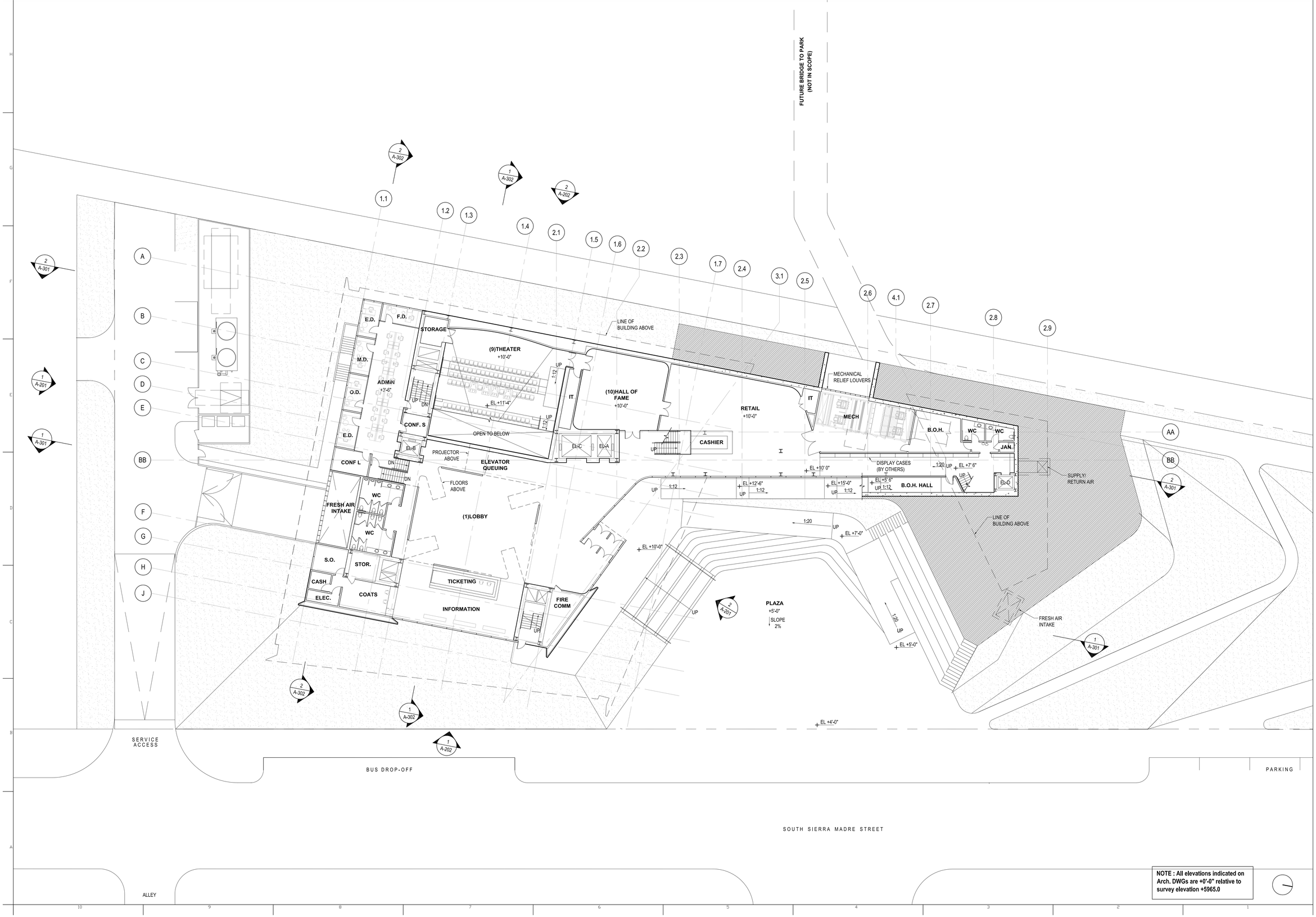

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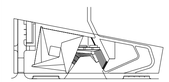
COLORADO SPRINGS, COLORADO 80907
T: 720.441.6608

KEY PLAN



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TITLE
LEVEL 1 PLAN (GROUND FLOOR)
1/16" = 1'-0"

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JENSEN HUGHES
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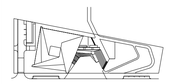
KEY PLAN



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LEVEL 1 MEZZANINE PLAN
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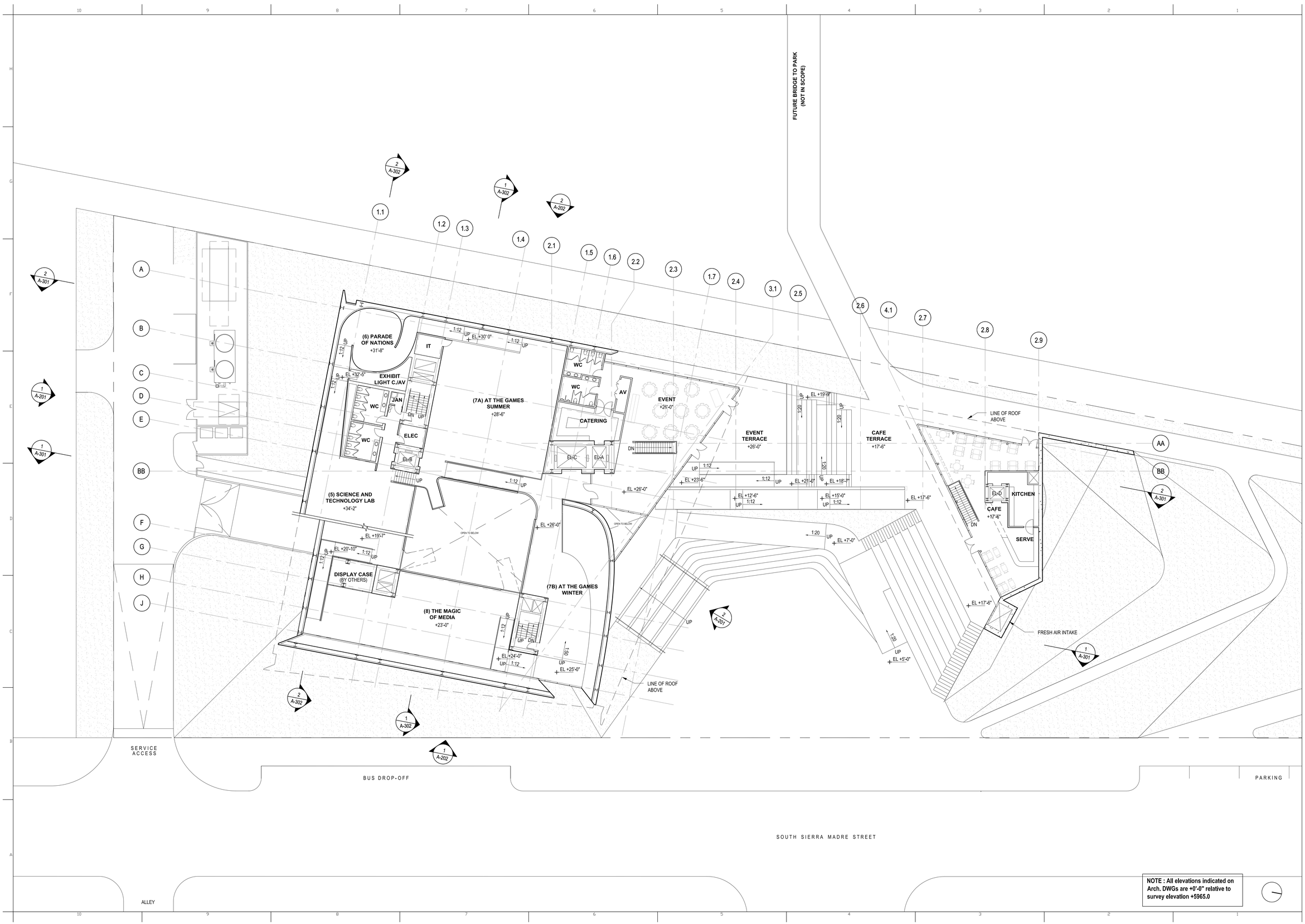

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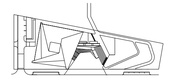
KEY PLAN



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LEVEL 2 PLAN
1-16" = 1'-0"

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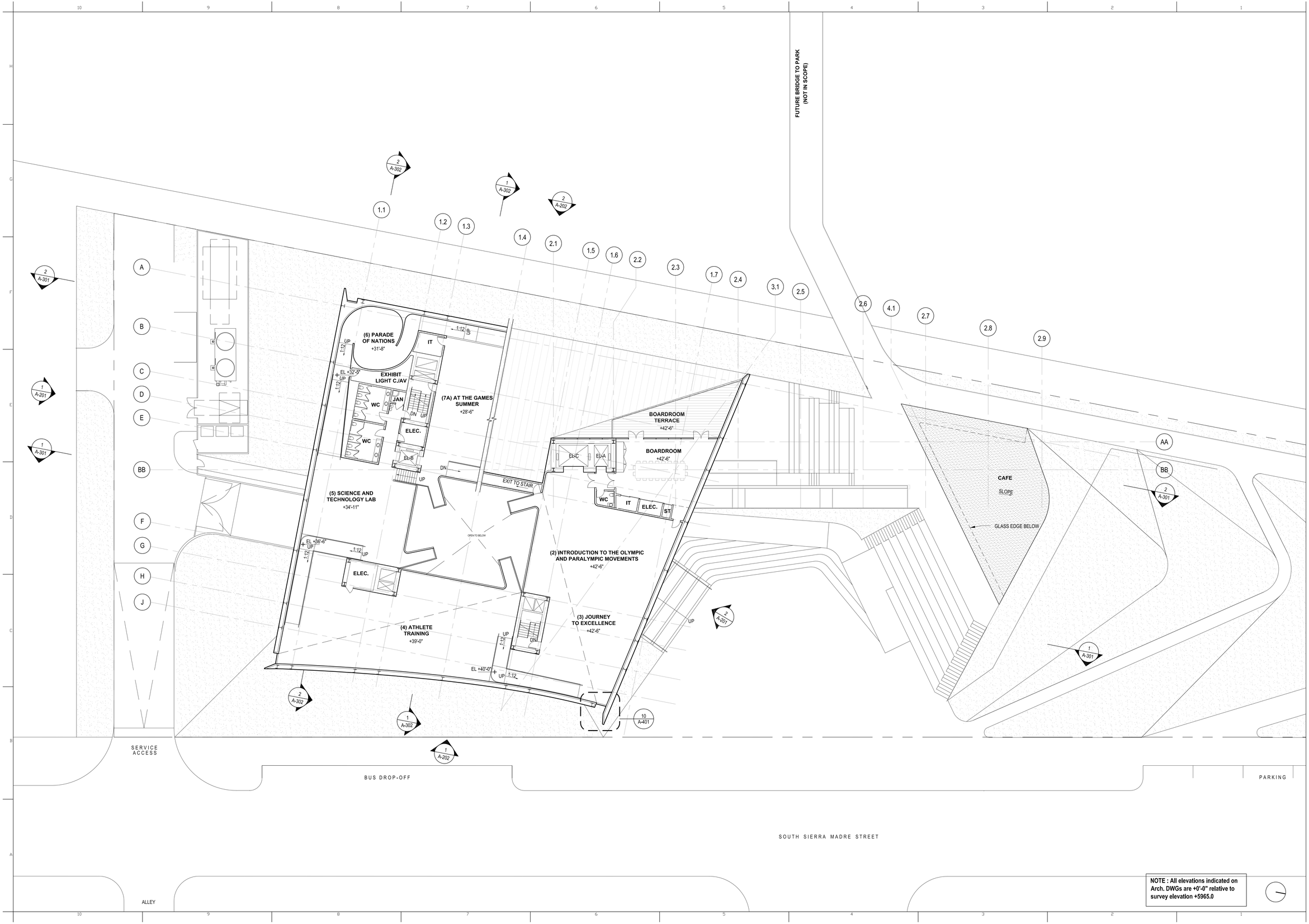

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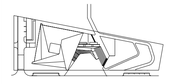

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14011

TITLE
LEVEL 3 PLAN (UPPER FLOOR)
1/16" = 1'-0"

DRAWING NO.
A-103

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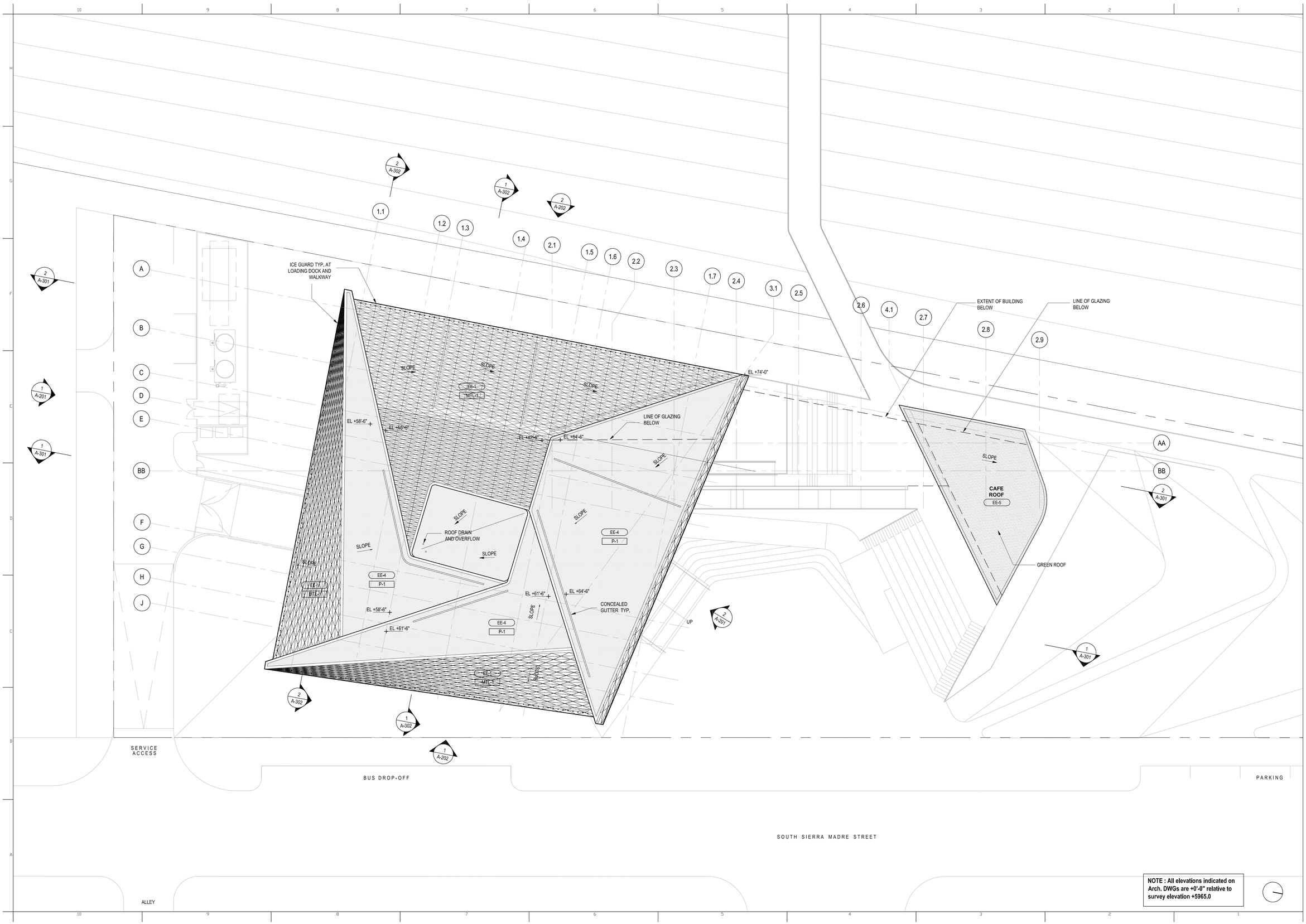

NOTE : All elevations indicated on Arch. DWGs are +0'-0" relative to survey elevation +5965.0

US OLYMPIC MUSEUM

OWNER:
United States Olympic Museum
P.O. Box 681
Colorado Springs, CO 80901
T: 719.358.6325

EXECUTIVE ARCHITECT:
Anderson Mason Dale Architects
3198 Speer Boulevard
Denver, CO 80211
T: 303.294.9448

DESIGNER:
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T: 212.260.7971

STRUCTURAL DESIGN:
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ELECTRICAL ENGINEER:
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KEY PLAN

PRINTING	DATE
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TITLE
ROOF PLAN

1/16" = 1'-0"

DRAWING NO.
A-104

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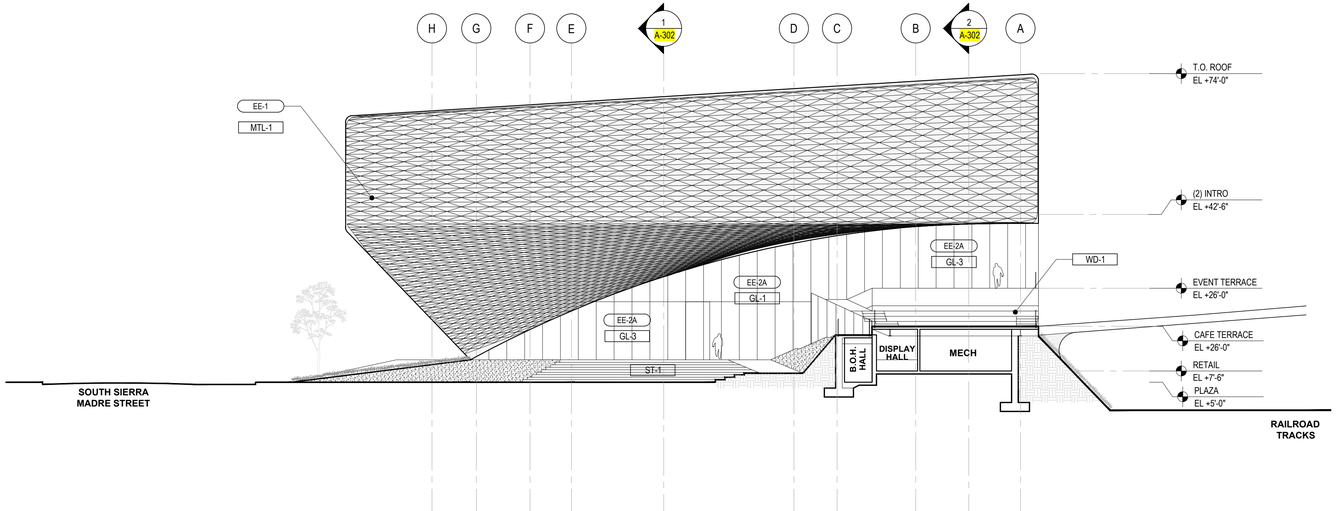
EXTERIOR ENVELOPE LEGEND

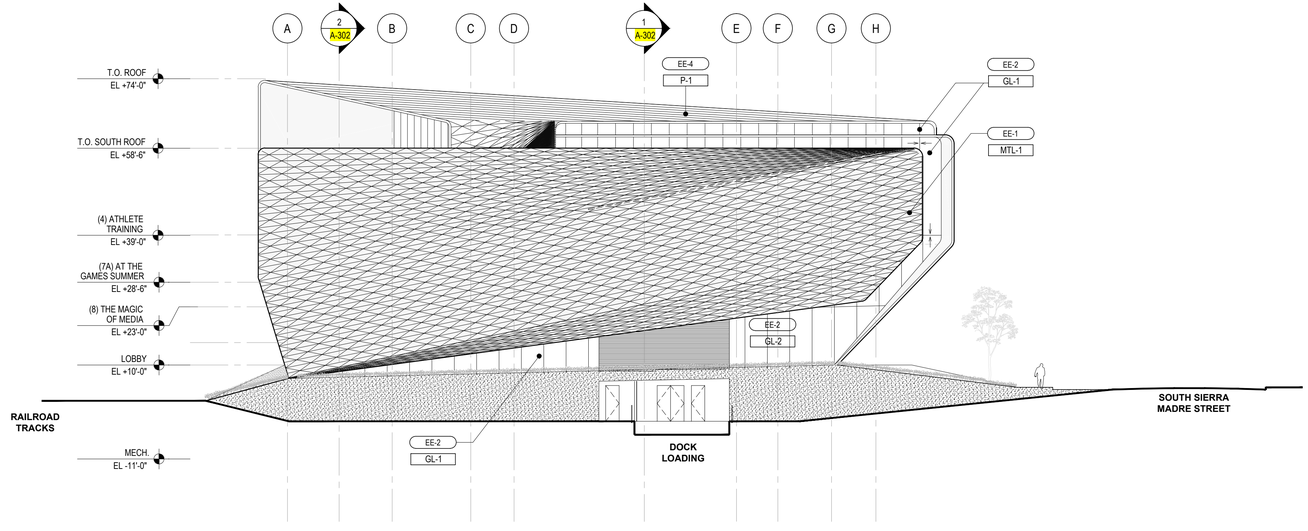
EE-1	METAL PANEL SYSTEM
EE-2	EXTRUDED ALUMINUM GLAZING SYSTEM
EE-2A	GLASS FIN CURTAIN WALL (ADD ALTERNATE TO EE2)
EE-3	METAL LOUVERS
EE-4	MEMBRANE ROOF
EE-5	EXTENSIVE GREEN ROOF

MATERIAL LEGEND

MTL-1	STAINLESS STEEL
GL-1	VISION GLASS
GL-2	EXPANDED METAL MESH INTERLAYER (FRIT ADD ALTERNATE)
GL-3	ACOUSTIC VISION GLASS
WD-1	WOOD TBD
ST-1	CONCRETE PAVER
P-1	PVC ROOFING MEMBRANE



2 NORTH ELEVATION



1 SOUTH ELEVATION

NOTE : All elevations indicated on Arch. DWGs are +0'-0" relative to survey elevation +5965.0

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JENSEN HUGHES
4445 NORTHPARK DRIVE, SUITE 204
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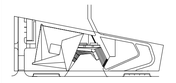
T: 720.441.6608

KEY PLAN



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14011

TITLE
ELEVATIONS: NORTH - SOUTH
1/16" = 1'-0"

DRAWING NO.
A-201

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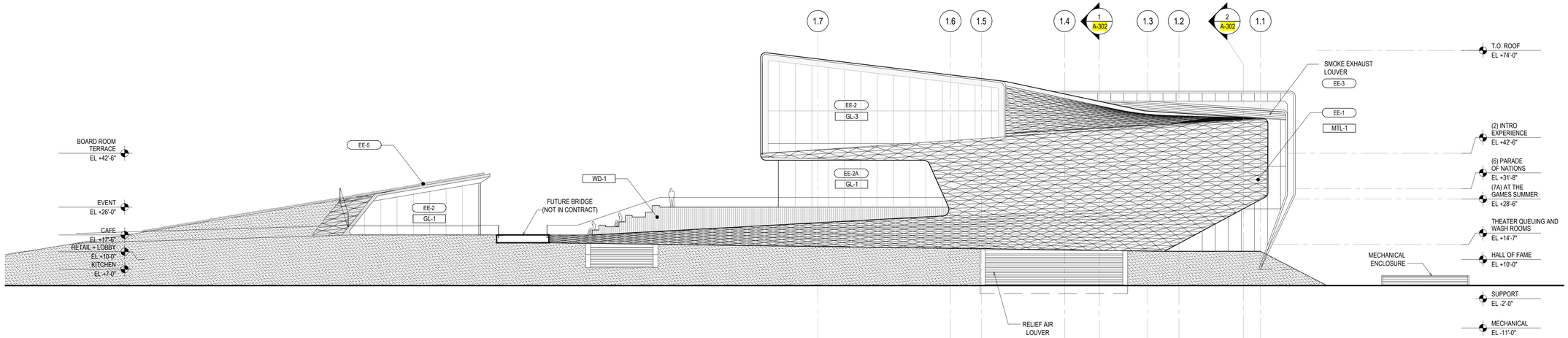
EXTERIOR ENVELOPE LEGEND

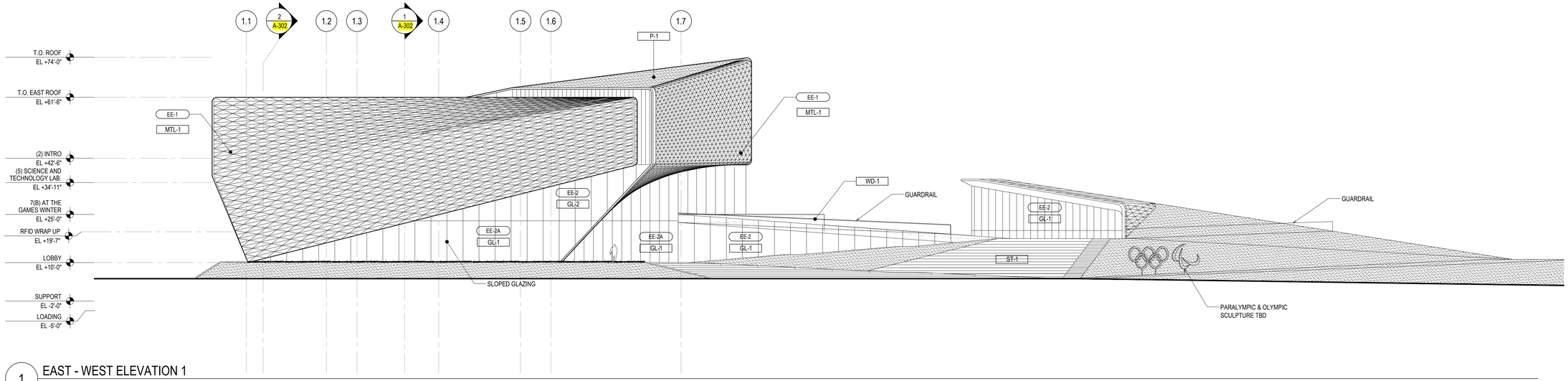
EE-1	METAL PANEL SYSTEM
EE-2	EXTRUDED ALUMINUM GLAZING SYSTEM
EE-2A	GLASS FIN CURTAIN WALL (ADD ALTERNATE TO EE2)
EE-3	METAL LOUVERS
EE-4	MEMBRANE ROOF
EE-5	EXTENSIVE GREEN ROOF

MATERIAL LEGEND

MTL-1	STAINLESS STEEL
GL-1	VISION GLASS
GL-2	EXPANDED METAL MESH INTERLAYER (FRIT ADD ALTERNATE)
GL-3	ACOUSTIC VISION GLASS
WD-1	WOOD TBD
ST-1	CONCRETE PAVER
P-1	PVC ROOFING MEMBRANE



2 EAST - WEST ELEVATION 2



1 EAST - WEST ELEVATION 1

NOTE : All elevations indicated on Arch. DWGs are +0'-0" relative to survey elevation +5965.0

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KEY PLAN

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TITLE
ELEVATIONS: EAST - WEST
1/16" = 1'-0"

DRAWING NO.
A-202

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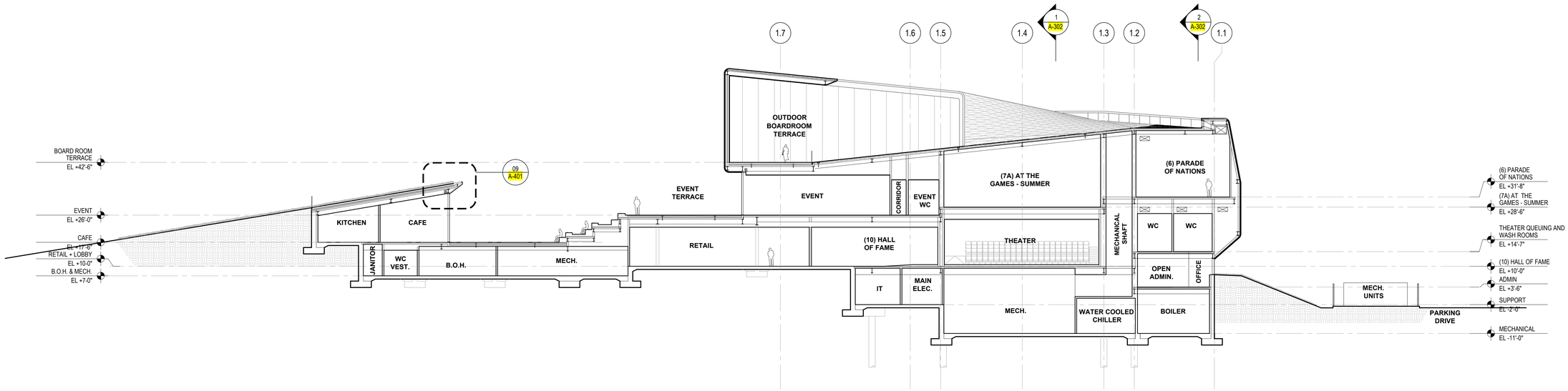
EXTERIOR ENVELOPE LEGEND

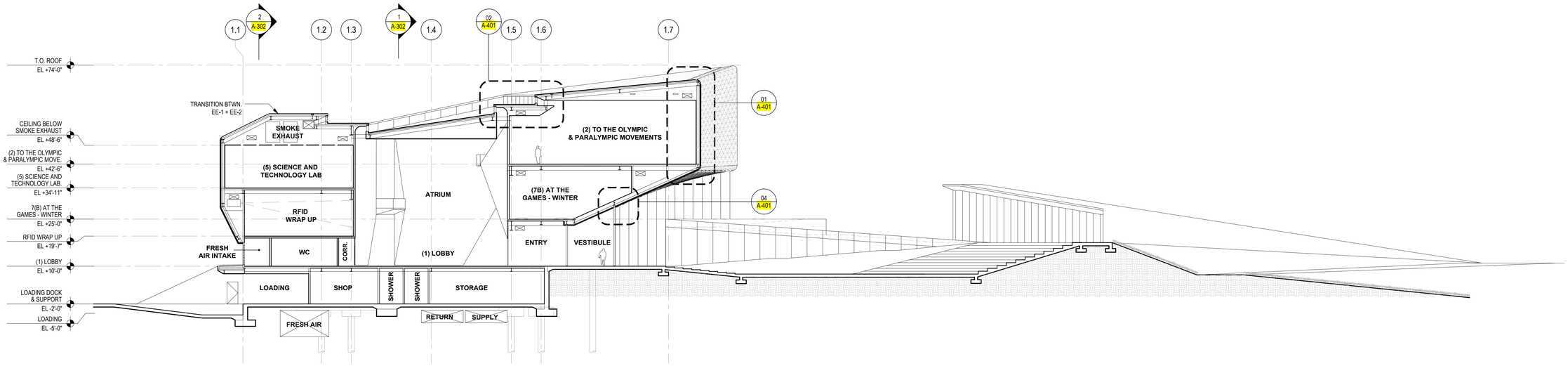
EE-1	SHINGLE SYSTEM
EE-2	EXTRUDED ALUMINUM GLAZING SYSTEM
EE-2A	GLASS FIN CURTAIN WALL (ADD ALTERNATE TO EE2)
EE-3	METAL LOUVERS
EE-4	MEMBRANE ROOF
EE-5	EXTENSIVE XERISCAPE GREEN ROOF
EE-7	PEDESTAL PAVING SYSTEM

MATERIAL LEGEND

MTL-1	STAINLESS STEEL
GL-1	VISION GLASS
GL-2	EXPANDED METAL MESH INTERLAYER (FRIT ADD ALTERNATE)
GL-3	ACOUSTIC VISION GLASS
WD-1	WOOD DECK
ST-1	CONCRETE PAVER
P-1	PVC ROOFING MEMBRANE



2 NORTH - SOUTH SECTION 2



1 NORTH - SOUTH SECTION 1

NOTE : All elevations indicated on Arch. DWGs are +0'-0" relative to survey elevation +5965.0

US OLYMPIC MUSEUM

OWNER:
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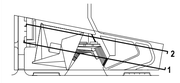
KEY PLAN



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14011

TITLE
SECTIONS: NORTH - SOUTH
1/16" = 1'-0"

DRAWING NO.
A-301

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EXTERIOR ENVELOPE LEGEND

EE-1	SHINGLE SYSTEM
EE-2	EXTRUDED ALUMINUM GLAZING SYSTEM
EE-2A	GLASS FIN CURTAIN WALL (ADD ALTERNATE TO EE2)
EE-3	METAL LOUVERS
EE-4	MEMBRANE ROOF
EE-5	EXTENSIVE XERISCAPE GREEN ROOF
EE-7	PEDESTAL PAVING SYSTEM

MATERIAL LEGEND

MTL-1	STAINLESS STEEL
GL-1	VISION GLASS
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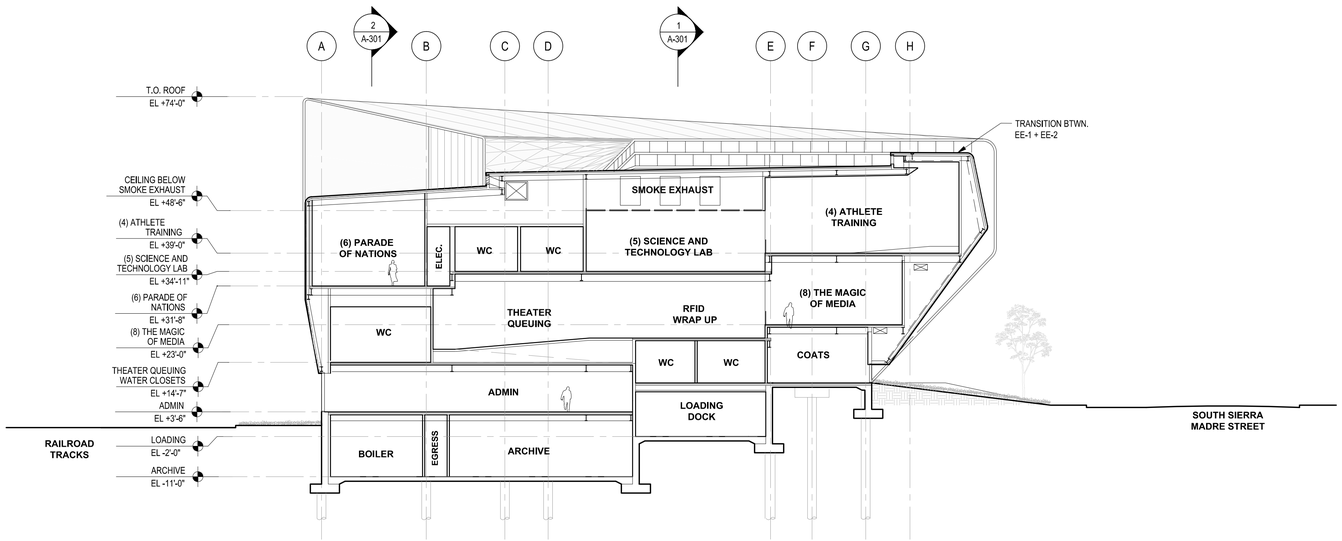
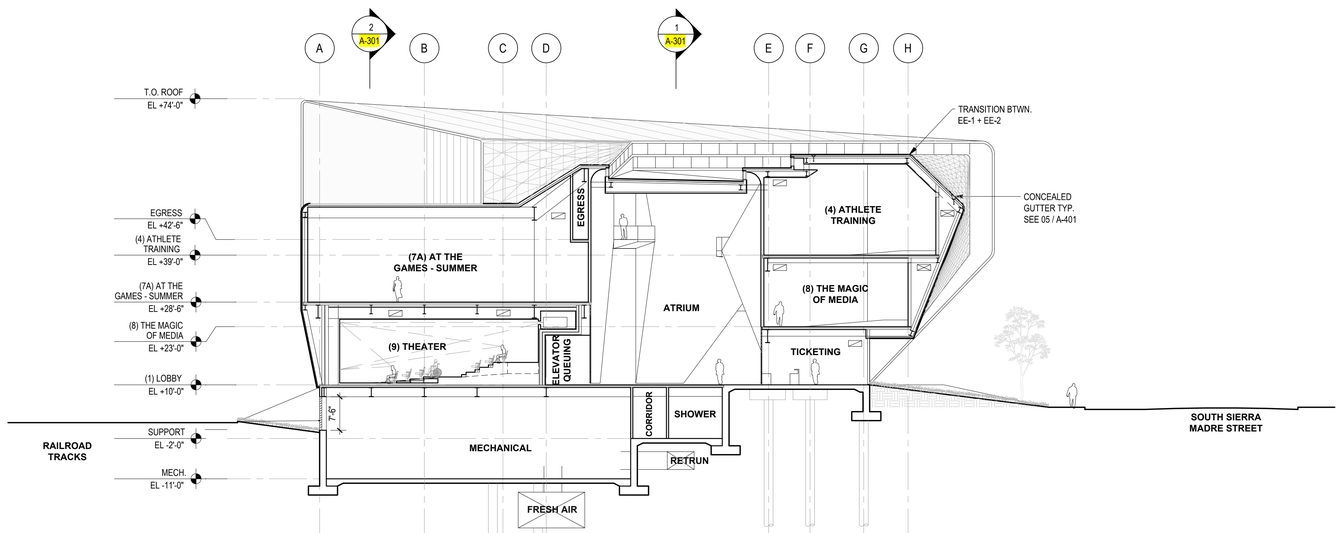


2 EAST - WEST SECTION B



1 EAST - WEST SECTION A

NOTE : All elevations indicated on Arch. DWGs are +0'-0" relative to survey elevation +5965.0

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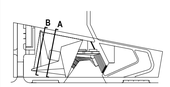
KEY PLAN



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PROJECT NUMBER
14011

TITLE
SECTIONS: EAST - WEST
1/16" = 1'-0"

DRAWING NO.
A-302

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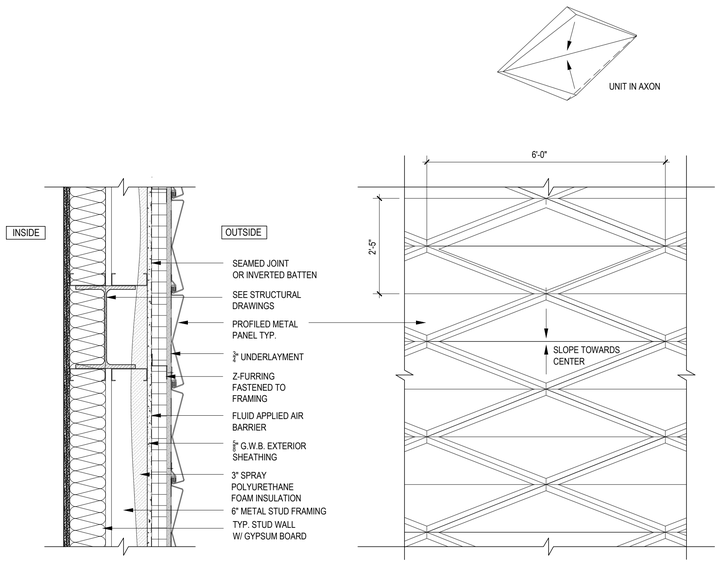
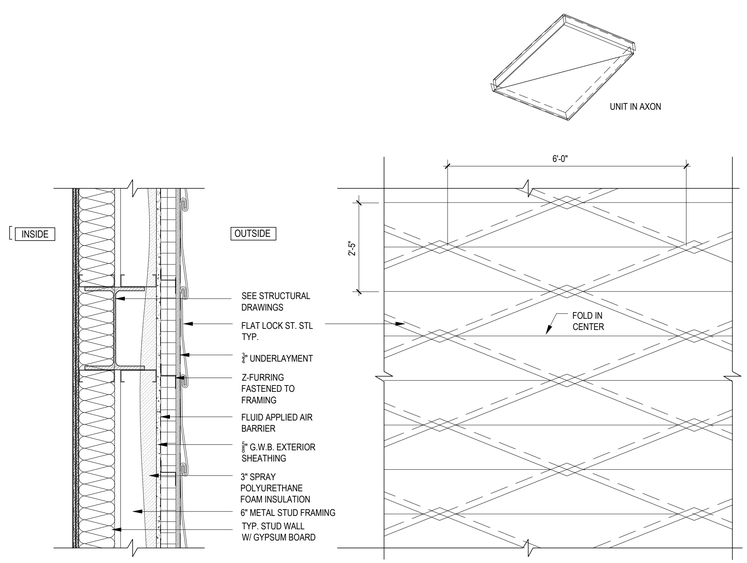
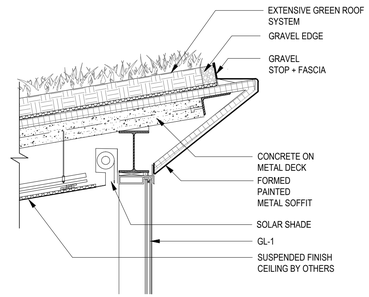


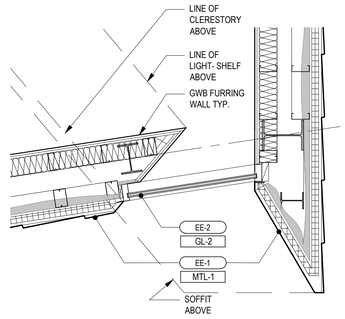
07 DETAIL: EXTERIOR CLADDING (PRICING OPTION 2)
SCALE: 1" = 1' - 0"



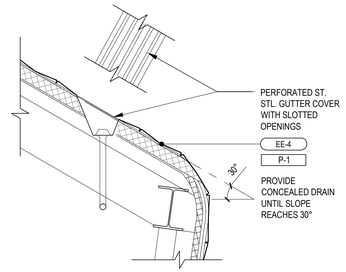
06 DETAIL: EXTERIOR CLADDING (PRICING OPTION1)
SCALE: 1" = 1' - 0"



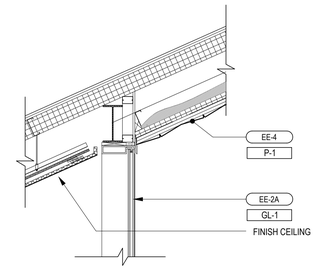
09 SECTION: CAFE GREEN ROOF
SCALE: 1/2" = 1' - 0"



08 PLAN: WINDOW AT GALLERY
SCALE: 1/2" = 1' - 0"



05 SECTION: CONCEALED ROOF DRAIN
SCALE: 1/2" = 1' - 0"



04 SECTION: CLADDING TO CURTIAN WALL
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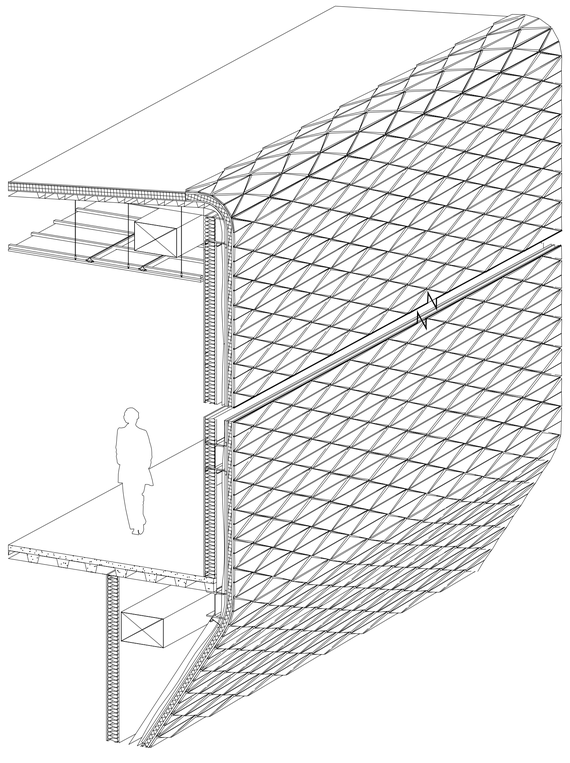
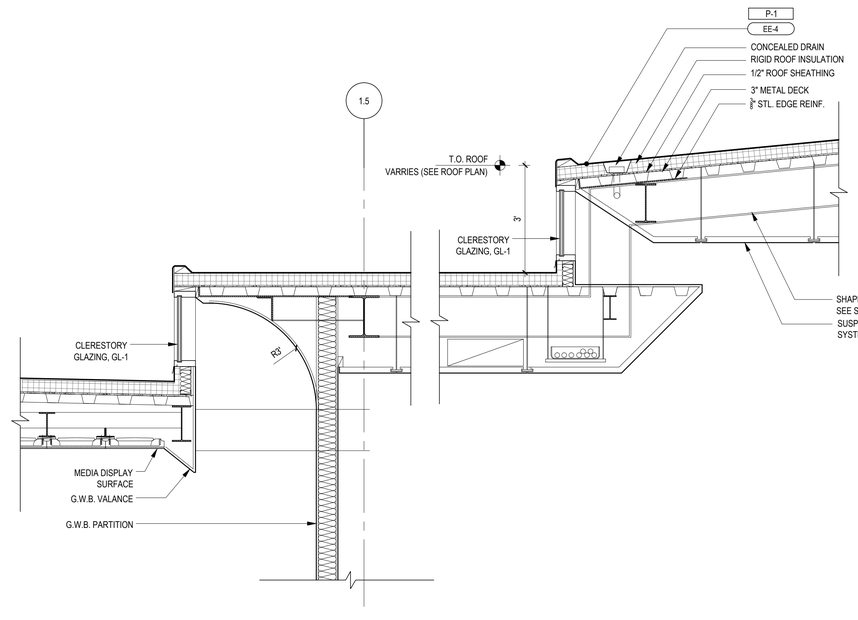


03 AXON: EXTERIOR CLADDING



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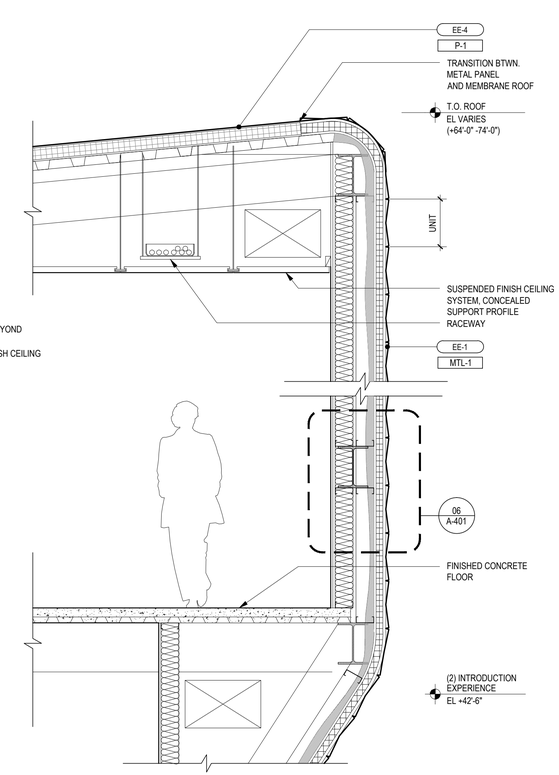

01 SECTION: EXTERIOR CLADDING
SCALE: 1/2" = 1' - 0"

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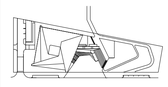
KEY PLAN



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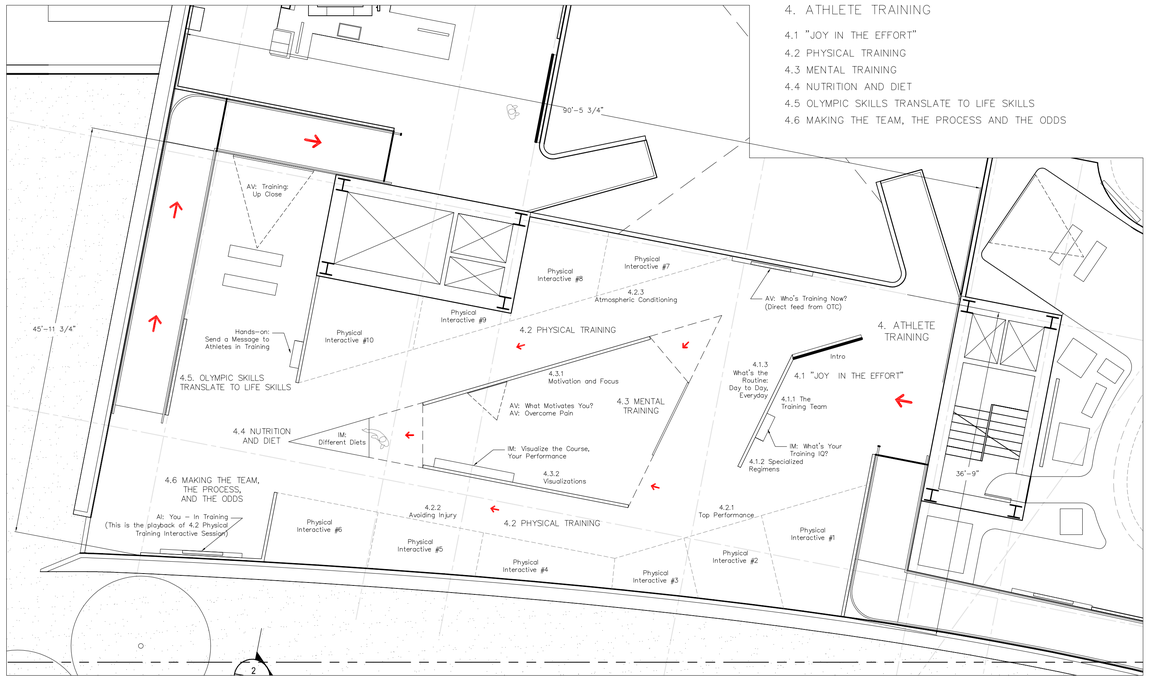

EXHIBIT PLAN - AREA 4

2' 4' 8' 16'

1/8" = 1'-0"

2 / X0.101

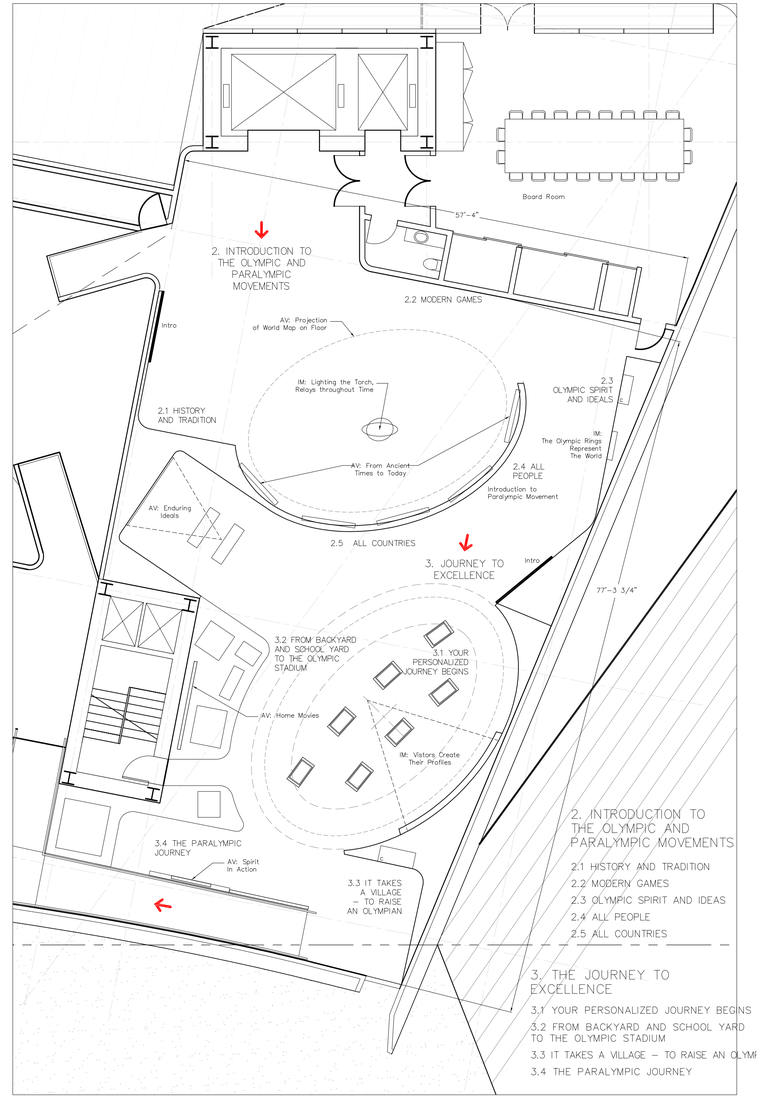

EXHIBIT PLAN - AREA 2, 3

2' 4' 8' 16'

1/8" = 1'-0"

1 / X0.101

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1/8" = 1' - 0"

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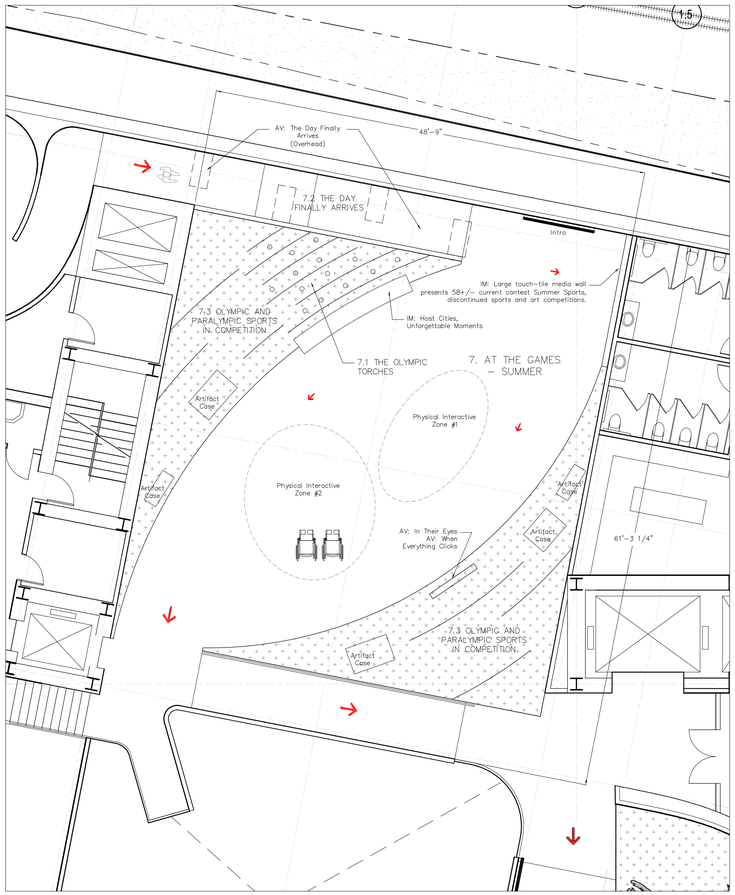
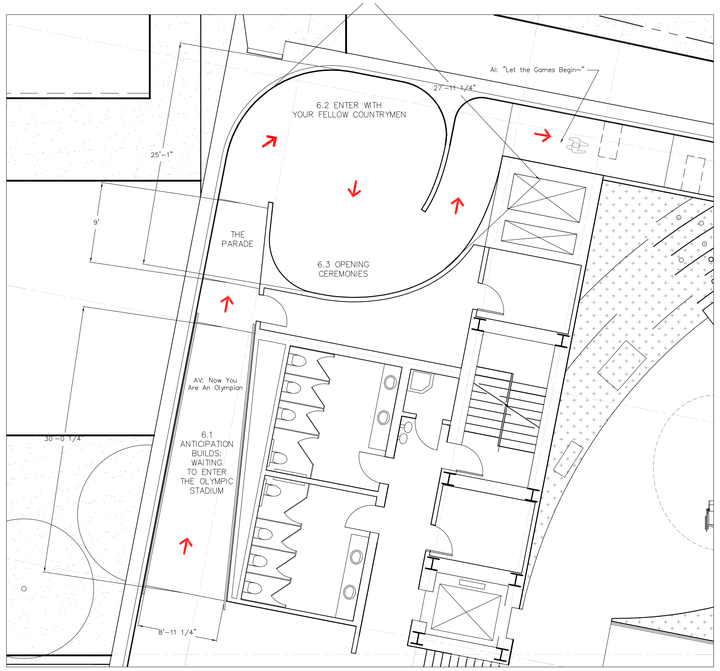


7. AT THE GAMES – SUMMER

7.1 THE OLYMPIC TORCHES
7.2 THE DAY FINALLY ARRIVES
7.3 OLYMPIC AND PARALYMPIC SPORTS IN COMPETITION

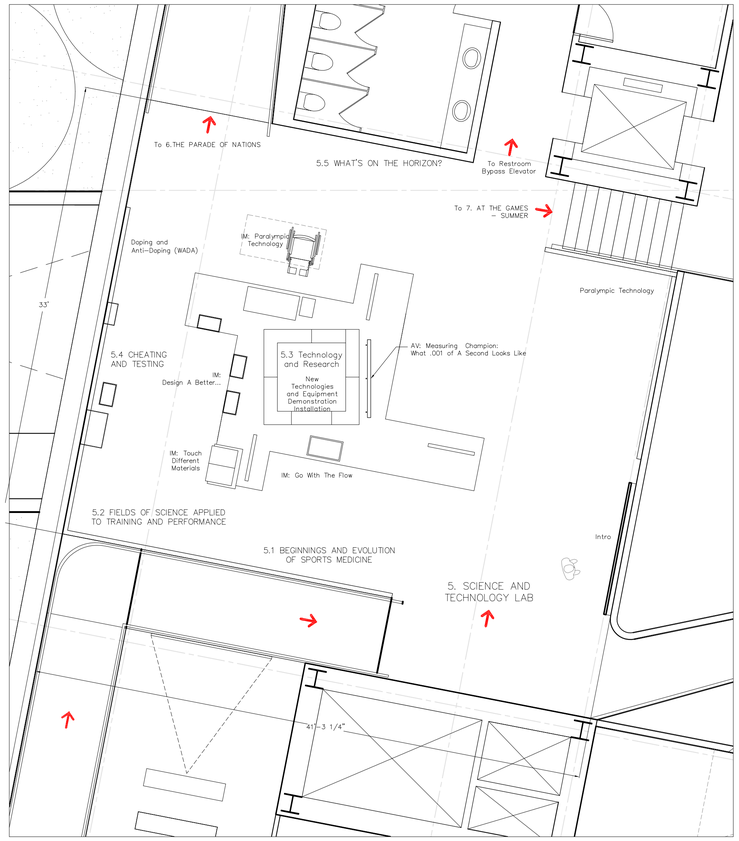
EXHIBIT PLAN - AREA 7 — 3 / X0.102 — 1/8" = 1'-0"



6. PARADE OF NATIONS

6.1 ANTICIPATION BUILDS: WAITING TO ENTER THE OLYMPIC STADIUM
6.2 ENTER WITH YOUR FELLOW COUNTRYMEN
6.3 OPENING CEREMONIES

EXHIBIT PLAN - AREA 6 — 2 / X0.102 — 1/8" = 1'-0"



5. SCIENCE AND TECHNOLOGY LAB

5.1 BEGINNINGS AND EVOLUTION OF SPORTS MEDICINE
5.2 FIELDS OF SCIENCE APPLIED TO TRAINING AND PERFORMANCE
5.3 TECHNOLOGY AND RESEARCH
5.4 CHEATING AND TESTING
5.5 WHAT'S ON THE HORIZON?

EXHIBIT PLAN - AREA 5 — 1 / X0.102 — 1/8" = 1'-0"

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9. THEATER

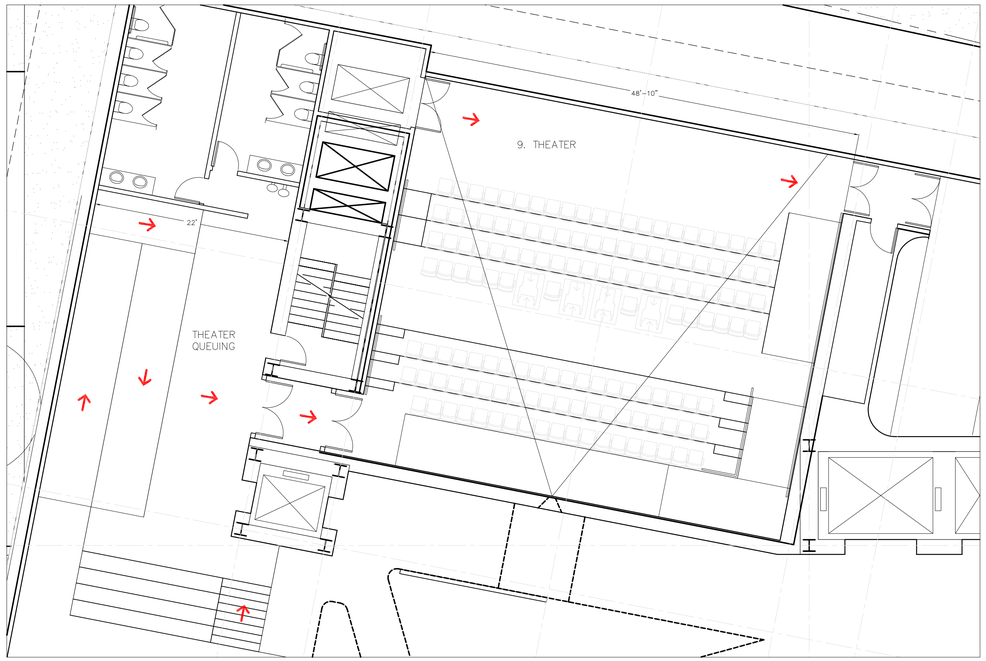

EXHIBIT PLAN - AREA 7, 8

2' 4' 8' 16'

1/8" = 1'-0"

3 X0.103

7. AT THE GAMES – WINTER

7.4 OLYMPIC AND PARALYMPIC SPORTS IN COMPETITION
7.5 UPHOLDING OLYMPIC VALUES
7.6 THE SUPPORT SYSTEM

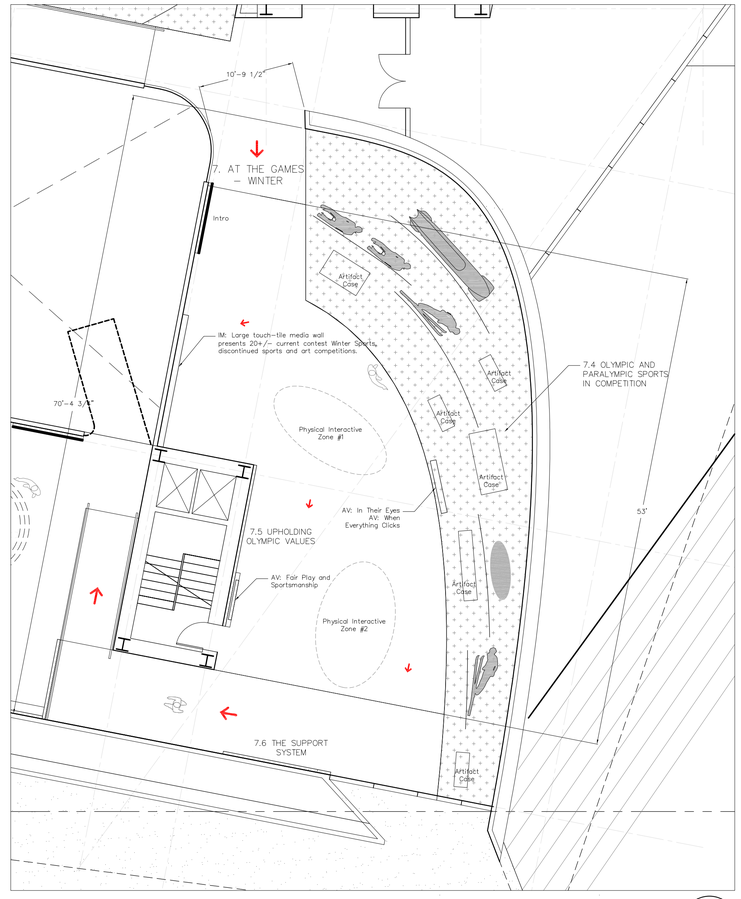

EXHIBIT PLAN - AREA 7

2' 4' 8' 16'

1/8" = 1'-0"

1 X0.103

10. HALL OF FAME

10.1 HISTORY AND PROCESS FOR INDUCTION
10.2 USOC HALL OF FAME INDUCTEES.

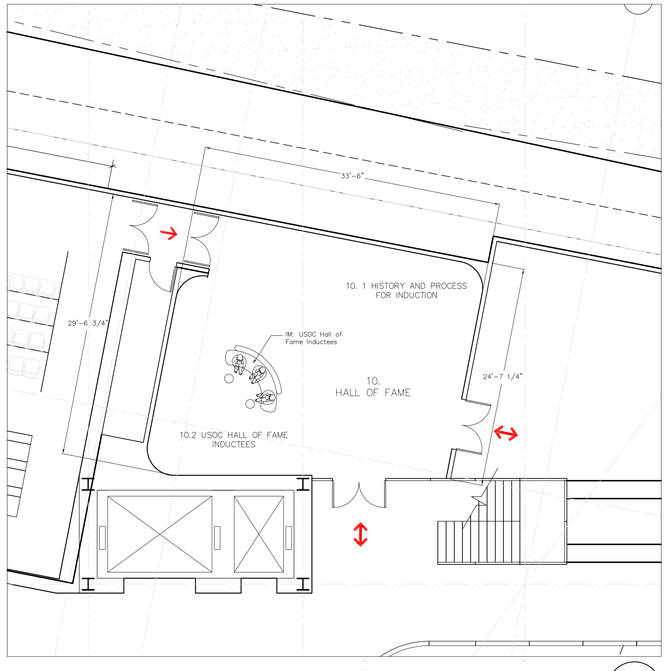

EXHIBIT PLAN - AREA 7, 8

2' 4' 8' 16'

1/8" = 1'-0"

4 X0.103

7. AT THE GAMES – THE MEDAL CEREMONY

7.7 GO FOR THE GOLD

8. THE MAGIC OF MEDIA

8.1 THE WORLD WATCHES: BROADCASTING THE GAMES
8.2 BROADCAST TECHNOLOGY
8.3 FEATURING THE 50TH: MEXICO CITY 1968

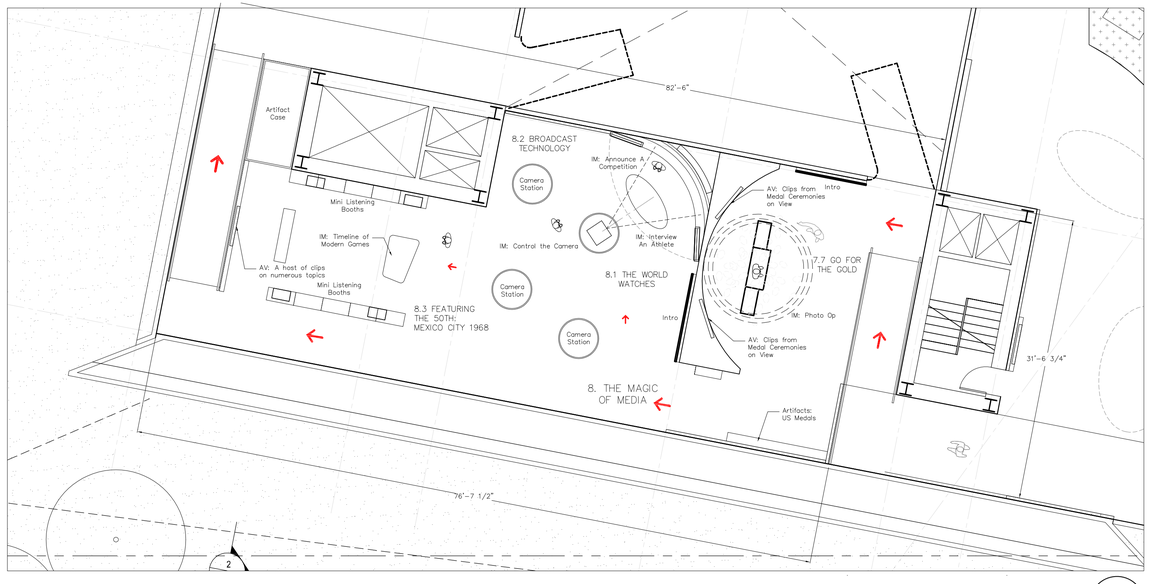

EXHIBIT PLAN - AREA 7, 8

2' 4' 8' 16'

1/8" = 1'-0"

2 X0.103

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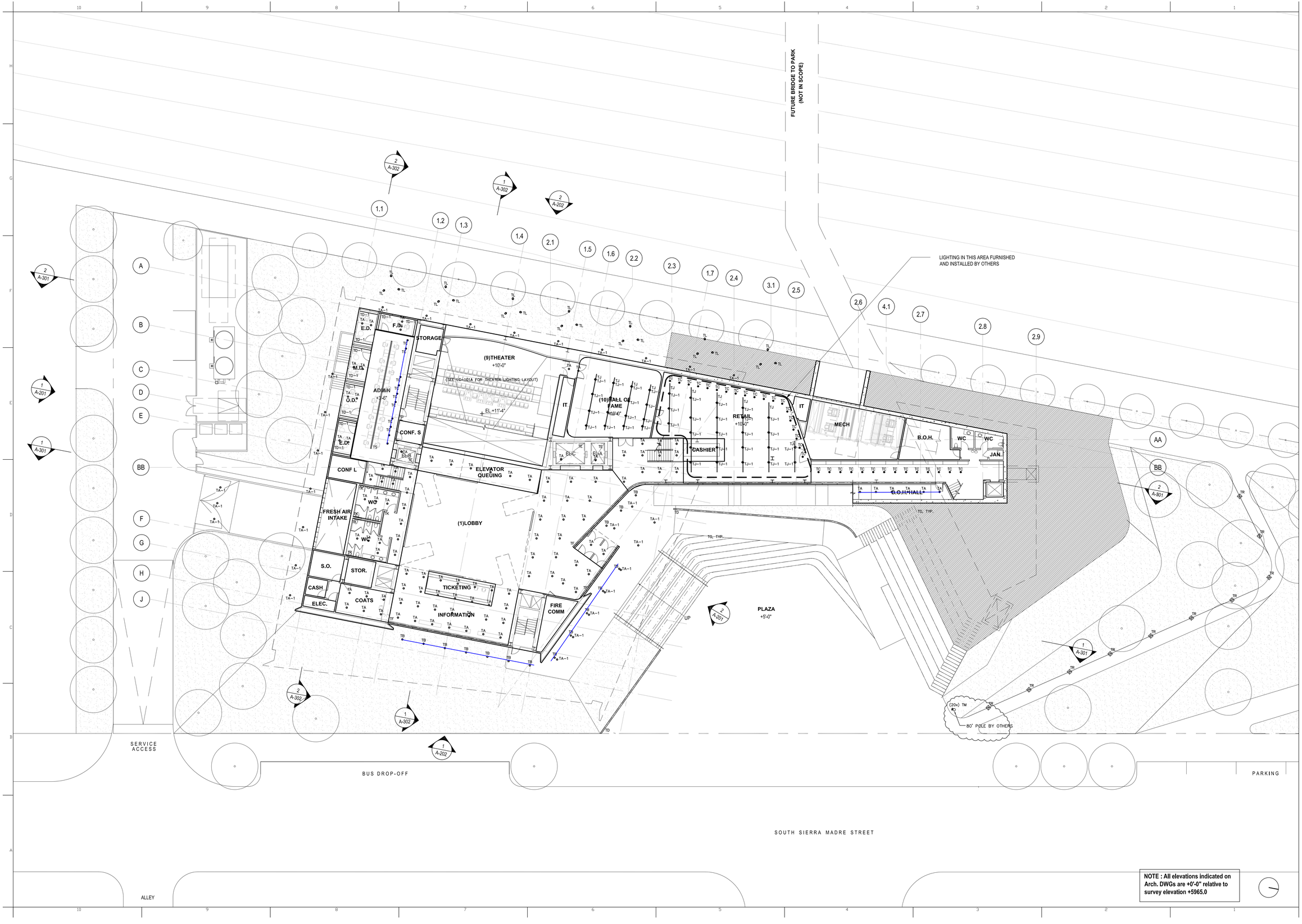

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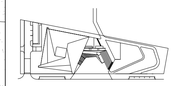

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KEY PLAN

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PROJECT NUMBER
14011

TITLE
LIGHTING LAYOUT LEVEL 01a
1/16" = 1'-0"

DRAWING NO.
LC-101a.00

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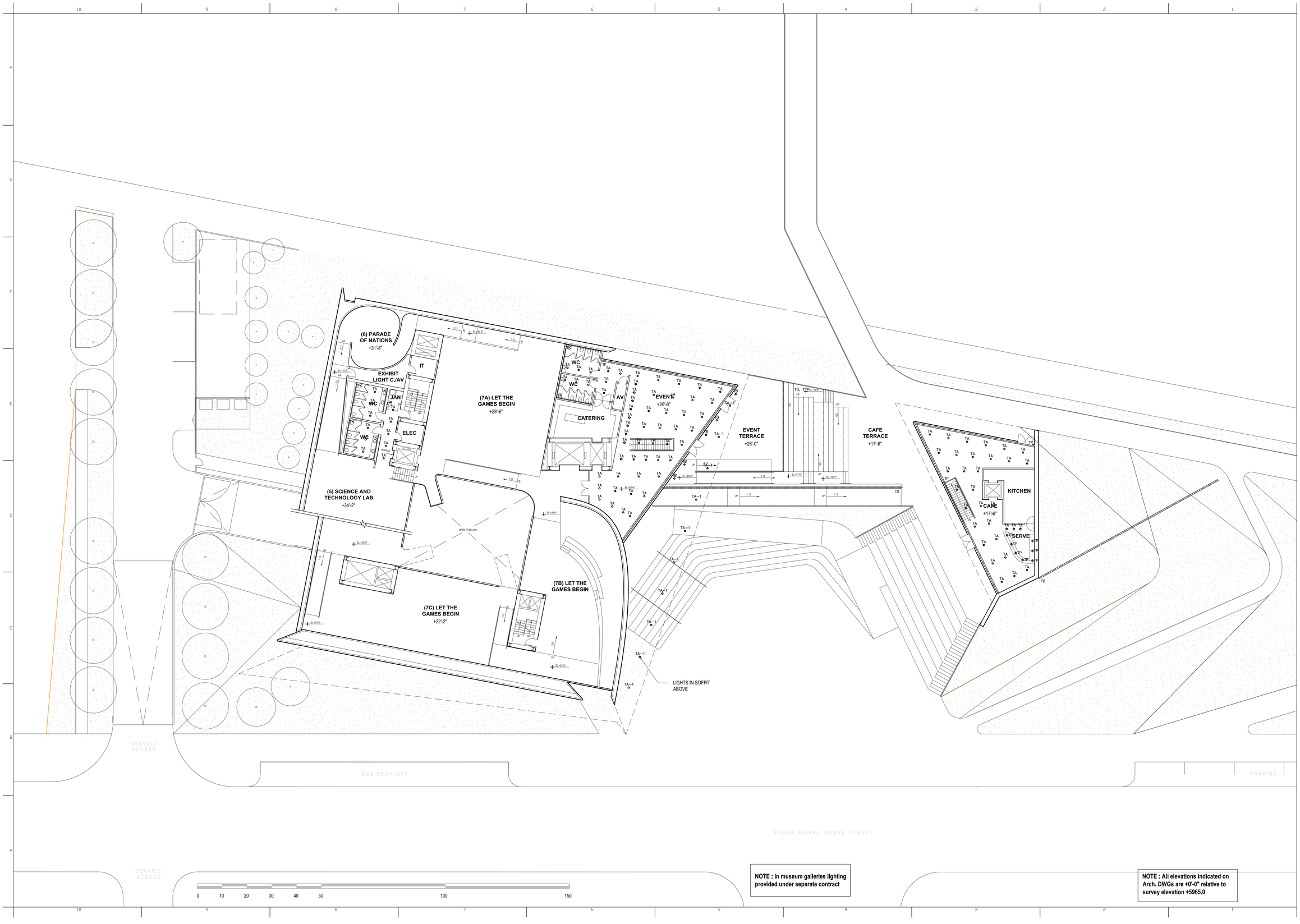

NOTE : in museum galleries lighting provided under separate contract

NOTE : All elevations indicated on Arch. DWGs are +0'-0" relative to survey elevation +5965.0

US OLYMPIC MUSEUM

OWNER:
United States Olympic Museum
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EXECUTIVE ARCHITECT:
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LIGHTING LAYOUT LEVEL 02

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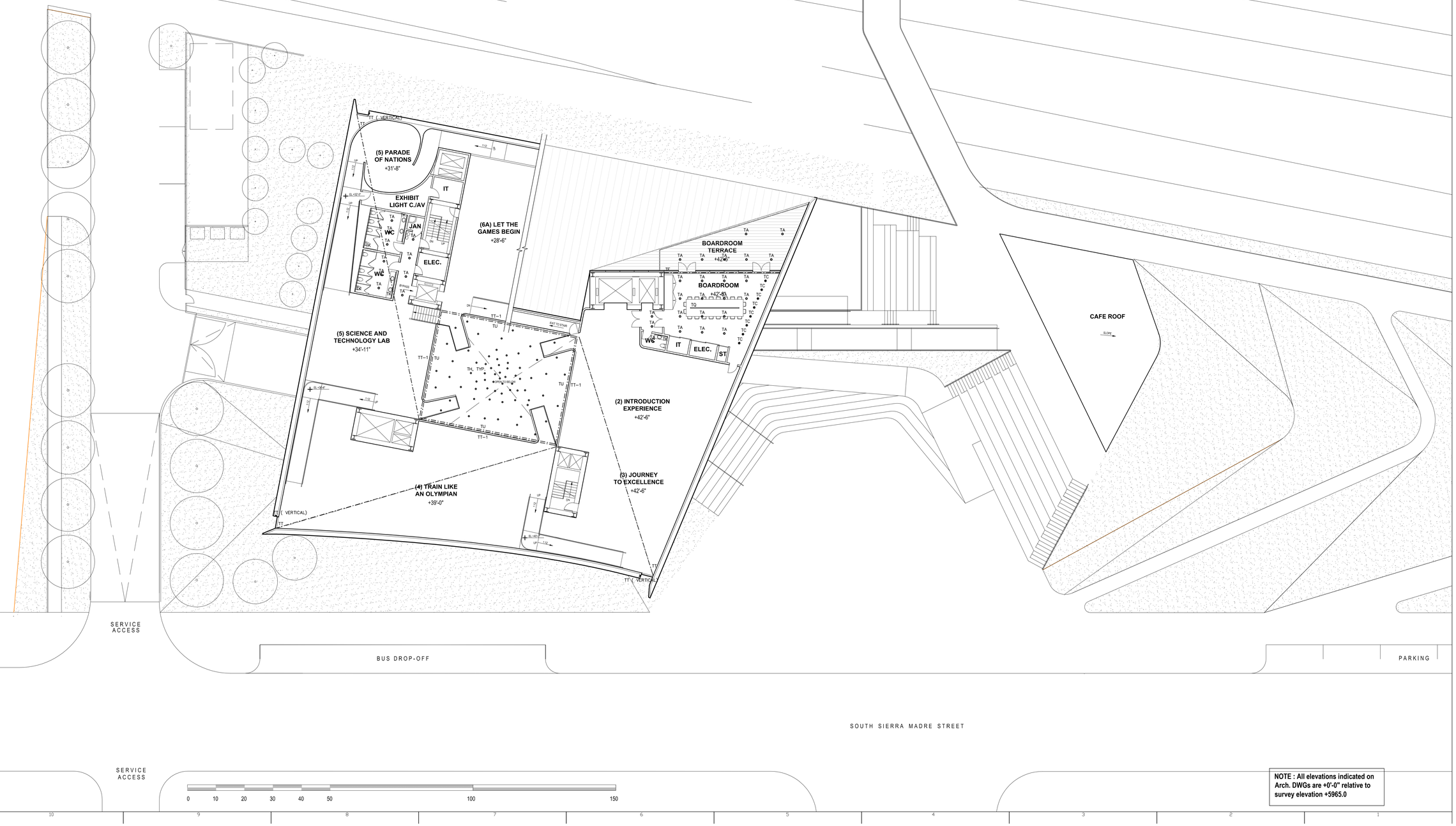

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US OLYMPIC MUSEUM

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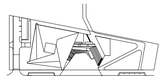
KEY PLAN



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TITLE
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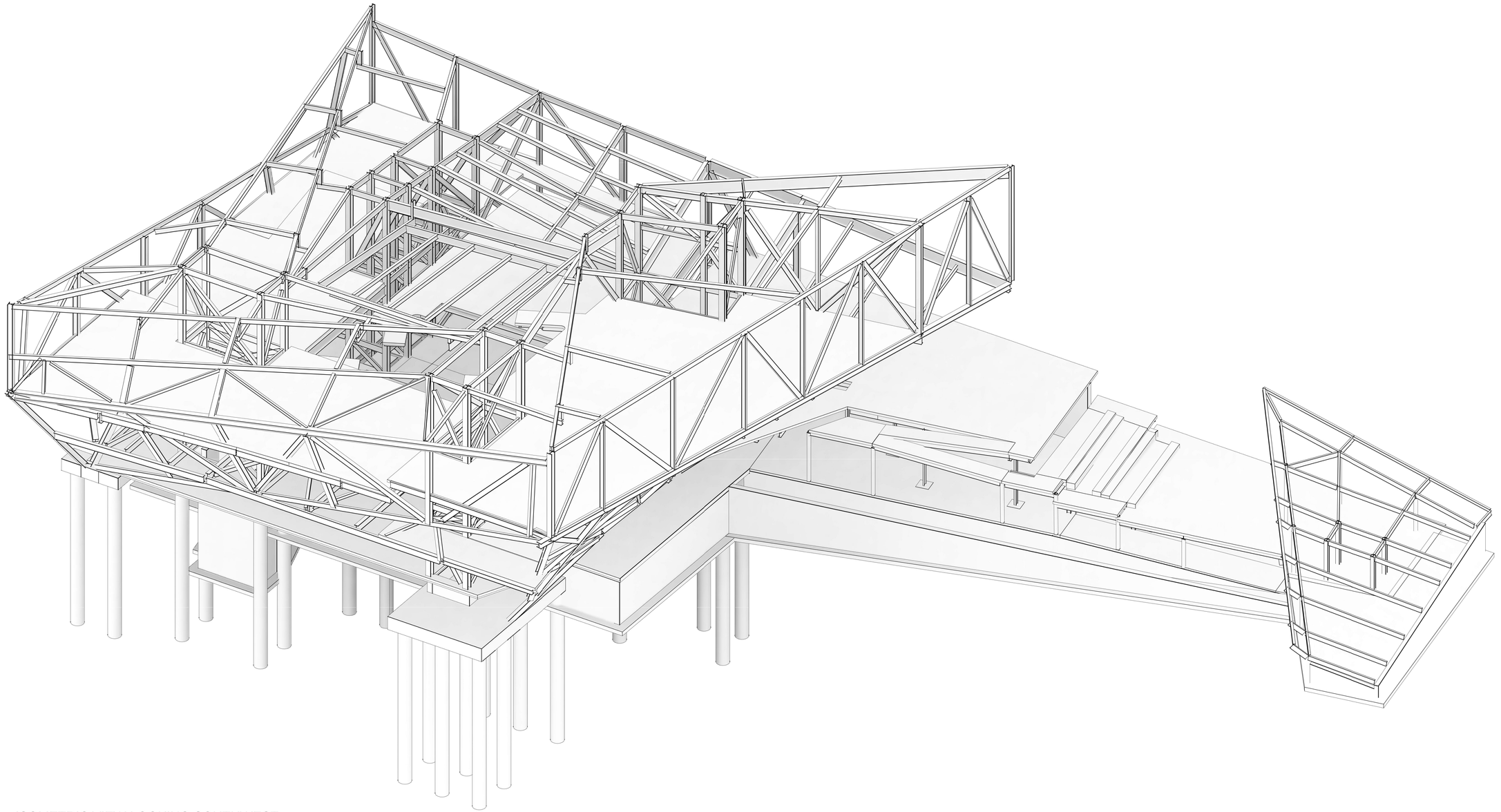
STRUCTURAL SHEET LIST	
SHEET NUM	DRAWING TITLE
S-000	COVER SHEET
S-001	GENERAL NOTES
S-002	FOUNDATION PLAN
S-003	UPPER LEVEL FRAMING PLAN
S-004	CAFE FRAMING PLAN
S-005	PERIMETER TRUSS ELEVATIONS
S-006	BUILDING SECTIONS



1 ISOMETRIC VIEW LOOKING SOUTHWEST

US OLYMPIC MUSEUM

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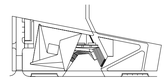

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S-000

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CODES AND STANDARDS

1. WHERE DOCUMENTS ARE REFERENCED IN THE GENERAL AND DESIGN NOTES, THEY SHALL BE THE LATEST APPLICABLE EDITIONS, UNLESS OTHERWISE NOTED.
2. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF PIKES PEAK REGIONAL BUILDING CODE 2011, INCLUDING REFERENCE STANDARDS, ADDENDA AND APPENDICES.
3. IN ADDITION, THE FOLLOWING CODES, STANDARDS AND SPECIFICATIONS SHALL APPLY WHERE MORE STRINGENT AND AS MODIFIED BY THE BUILDING CODE:
   - A. ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE AND COMMENTARY"
   - B. AISC "STEEL CONSTRUCTION MANUAL" AND AISC 360 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS"
   - C. AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES"
   - D. AISC "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A 325 OR A 490 BOLTS" AND AISC SPEC
   - E. AWS D1.1 "STRUCTURAL WELDING CODE - STEEL"

PROJECT DOCUMENTS

1. THIS SET OF DRAWINGS, TOGETHER WITH THE SPECIFICATIONS, CONSTITUTES THE DOCUMENT BY WHICH ALL WORK IS TO BE CARRIED OUT.
2. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AT JOB SITE. THE CONTRACTOR SHALL USE STRUCTURAL DRAWINGS IN CONJUNCTION WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION AND ALL OTHER RELEVANT CONSULTANTS DRAWINGS BEFORE COMMENCING WITH THE WORK AND SHALL NOTIFY THE ARCHITECT AND COMMENCING WITH THE WORK AND SHALL NOTIFY THE ARCHITECT AND ENGINEER OF ANY DISCREPANCIES REQUIRING CLARIFICATION OR REVISION.
3. SCALES NOTED ON THE DRAWINGS ARE FOR GENERAL INFORMATION ONLY. NO DIMENSIONAL INFORMATION SHALL BE OBTAINED BY SCALING FROM THE DRAWINGS.
4. IN THE EVENT THAT CERTAIN DETAILS OF THE CONSTRUCTION ARE NOT FULLY SHOWN OR NOTED ON DRAWINGS, THEIR CONSTRUCTION SHALL BE OF THE SAME TYPE AS FOR SIMILAR CONDITIONS THAT ARE SHOWN OR NOTED, SUBJECT TO THE STRUCTURAL ENGINEER'S PRIOR WRITTEN APPROVAL.
5. REFER TO ARCHITECTURAL DRAWINGS FOR THE FOLLOWING:
   - A. SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS, EXCEPT AS NOTED.
   - B. SIZE AND LOCATION OF ALL INTERIOR AND EXTERIOR NON-BEARING PARTITIONS.
   - C. SIZE AND LOCATION OF ALL CONCRETE CURBS, FLOOR DRAINS, SLOPES, INSERTS, ETC. EXCEPT AS SHOWN.
   - D. FLOOR AND ROOF FINISHES
   - E. DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.
6. REFER TO MEP DRAWINGS FOR THE FOLLOWING:
   - A. PIPE AND DUCT RUNS, SLEEVES, HANGERS, TRENCHES, WALL AND SLAB OPENINGS, EXCEPT AS SHOWN OR NOTED.
   - B. ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS.
   - C. CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL OR PLUMBING FIXTURES.
   - D. SIZE AND LOCATION OF MACHINE OR EQUIPMENT BASES, ANCHOR BOLTS FOR MOTOR MOUNTS, EXCEPT AS SHOWN OR NOTED.
7. SEE SPECIFICATIONS FOR WATERPROOFING AND DAMP PROOFING.
8. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE PROPER SHORING AND BRACING DURING CONSTRUCTION WHEREVER NECESSARY, WHICH SHALL NOT BE REMOVED AS LONG AS REQUIRED FOR SAFETY.

STRUCTURAL DESIGN CRITERIA

1. DESIGN IN ACCORDANCE WITH THE APPLICABLE CODE AND ALL APPLICABLE LOCAL ORDINANCES.
2. SUPERIMPOSED DEAD LOADS

MEP (WHERE APPLICABLE)	10 PSF
SUSPENDED CEILING	5 PSF
FAÇADE	25 PSF
ROOF	30 PSF

3. SNOW LOADING:

GROUND SNOW LOAD	Pg =	30 PSF
IMPORTANCE FACTOR (FOR SNOW)	Is =	1.0
EXPOSURE CATEGORY (FOR SNOW)	Ce =	1.0
THERMAL FACTOR	Ct =	1.0
UNBALANCED DRIFT	Pf =	20 PSF

4. WIND LOADING:

DESIGN WIND SPEED (3 SEC GUST)		100 MPH
IMPORTANCE FACTOR (FOR WIND)	Iw =	1.0
EXPOSURE CATEGORY (FOR WIND)		C
INTERNAL PRESSURE COEFFICIENT	Gcpi =	+/-0.18 (ENCLOSED) +/-0.55 (PARTIALLY ENCLOSED)
DIRECTIONALITY FACTOR	Kd =	0.85
WIND TUNNEL REPORT	TBD	

4. SEISMIC LOADING:

IMPORTANCE FACTOR (SEISMIC)	I =	1.0
SITE CLASS	D	(PER GEOTECHNICAL REPORT)
MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS		Ss = 0.185 Sds = 0.195
DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS		S1 = 0.059 Sd1 = 0.098
SITE COEFFICIENTS		FA = 1.6 FV = 2.4
SEISMIC DESIGN CATEGORY		B
LATERAL SYSTEM		13. ORDINARY COMPOSITE STEEL AND CONCRETE BRACED FRAMES
RESPONSE MODIFICATION COEFFICIENT	R =	3
SYSTEM OVERSTRENGTH FACTOR	Ω0 =	2
DEFLECTION AMPLIFICATION FACTOR	Cd =	3
ANALYSIS METHOD		MODAL RESPONSE SPECRUM ANALYSIS
SEISMIC RESPONSE COEFFICIENT	Cs =	0.065
DESIGN BASE SHEAR	V =	352 KIPS (NORTH-SOUTH) 352 KIPS (EAST-WEST)

5. LIVE LOADS

AUDITORIUM (MOBILE SEATING)	100 PSF
AUDITORIUM (SEATING FIXED ON THE FLOOR)	60 PSF
CORRIDORS, STAIRS AND EXITS	100 PSF
GENERAL ASSEMBLY AREAS (EXHIBITS, CAFE, LOBBY, ETC.)	100 PSF
MIN LOAD ROOF (Lr)	20 PSF
MECHANICAL / FILE ROMS	150 PSF
OFFICES	50 PSF

STRUCTURAL MOVEMENTS

1. THE BUILDINGS ARE DESIGNED FOR THE SERVICEABILITY LIMITS INDICATED IN THE TABLE BELOW:

STRUCTURAL DEFLECTION LIMITS		
FLOOR BEAMS	LIVE LOAD	SPAN/360
	LIVE LOAD + SDL	SPAN/240 OR 1.5"
SPANDREL BEAMS	LIVE LOAD	SPAN/360
	DEAD LOAD + SDL	SPAN/480 OR 0.5" NET OF CAMBER
ROOF MEMBERS	TOTAL UPLIFT LOAD	SPAN/240 OR 1.5" NET OF CAMBER

NOTE: SDL = SUPERIMPOSED DEAD LOAD

FOUNDATIONS

1. THE FOUNDATION DESIGN IS BASED ON THE DRAFT GEOTECHNICAL ENGINEERING REPORT PREPARED BY TERRACON, DATED 06/24/2015. COPIES ARE AVAILABLE FOR REVIEW AT THE ARCHITECT'S OFFICE.
2. THE ALLOWABLE SOIL / ROCK BEARING PRESSURES USED IN THE PREPARATION OF THESE DRAWINGS ARE PER THE DRAFT GEOTECHNICAL ENGINEERING REPORT, DATED 06/24/2015. IN ADDITION, THE CAPACITY OF GROUPED PILES HAS BEEN REDUCED BY 15% PER DISCUSSION WITH TERRACON ON 07/02/2015.
3. REVIEW FINAL DESIGN AND FINAL GEOTECHNICAL REPORT TO DETERMINE WHETHER ANY PORTIONS OF THE PROJECT ARE BELOW WATER TABLE. PROVIDE WATER PROOFING SYSTEM AS NECESSARY AND REINFORCE SRUCTURE AS NECESSARY.
4. CONTRACTOR SHALL VISIT THE SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL SURFACE AND SUBSURFACE CONDITIONS IN ADDITION TO THE INFORMATION CONTAINED IN THE GEOTECHNICAL REPORT.
5. CONTRACTOR SHALL PROVIDE FOR PROPER DEWATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER, SEEPAGE, ETC. SUCH ACTIVITIES SHALL NOT DAMAGE ADJACENT STRUCTURES.
6. CONTRACTOR SHALL PROVIDE FOR THE INSTALLATION AND DESIGN OF ALL CRIBBING, SHEATHING AND SHORING REQUIRED TO SAFELY AND ADEQUATELY RETAIN EXCAVATIONS, EARTH BANKS AND SUPPORT ANY EXISTING STRUCTURES.
7. FOOTINGS SHALL BE PLACED ACCORDING TO DEPTH SHOWN IN THE STRUCTURAL DRAWINGS. ALL FOUNDATION BASES SHALL BE INSPECTED WHEN THE DEPTH INDICATED HAS BEEN ACHIEVED. THE GEOTECHNICAL ENGINEER WILL DETERMINE THE SUITABILITY OF THE SOIL AT THIS LEVEL FOR THE PROPOSED IMPOSED LOADS AND MAY INSTRUCT FURTHER EXCAVATION UNTIL A SUITABLE BEARING SURFACE IS ATTAINED. THE GEOTECHNICAL ENGINEER SHALL GIVE THE FINAL APPROVAL FOR ANY CHANGES IN FOOTING DEPTH, AND SHALL GIVE WRITTEN NOTIFICATION TO THE ARCHITECT AND ENGINEER. NO FOOTINGS SHALL BE CAST WITHOUT THE APPROVAL OF THE GEOTECHNICAL ENGINEER.
8. FOOTINGS SHALL BE FORMED TO DIMENSIONS SHOWN IN DRAWINGS. WHERE SOIL CONDITIONS ARE ADEQUATE FOOTINGS MAY BE CAST IN NEAT TRENCHED EXCAVATIONS. WHERE FOOTINGS ARE CAST IN TRENCHED EXCAVATIONS THE FOOTING DIMENSIONS SHALL BE INCREASED BY 3 INCHES. WATER SHALL NOT BE ALLOWED TO STAND IN TRENCHES BEFORE OR AFTER CONCRETE IS PLACED. IF TRENCHES BECOME SOFTENED DUE TO RAIN OR OTHER WATER BEFORE THE FOOTINGS ARE CAST, THE CONTRACTOR SHALL EXCAVATE THE SOFTENED MATERIAL AND REPLACE WITH CONCRETE. LOOSE MATERIAL SHALL BE REMOVED FROM THE BASE OF THE FOOTING PRIOR TO CASTING.
9. NEW FOOTINGS, WHICH ARE LOCATED IMMEDIATELY ADJACENT TO EXISTING FOOTINGS, SHALL BE FOUNDED AT THE SAME ELEVATION AS THE EXISTING FOOTINGS, UNLESS OTHERWISE NOTED. EXISTING ADJACENT FOOTINGS SHALL NOT BE UNDERMINED BY EXCAVATION OR NEW CONSTRUCTION.
10. EXTERIOR FOOTINGS, AND OTHER FOOTINGS SUSCEPTIBLE TO DAMAGE RESULTING FROM FROST ACTION, SHALL BE FOUNDED AT A MINIMUM DEPTH OF 3FT BELOW FINAL GROUND LEVEL, UNLESS OTHERWISE NOTED.
11. TEMPORARY FROST PROTECTION SHALL BE PROVIDED DURING COLD WEATHER CONSTRUCTION FOR ALL FOOTINGS.
12. ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED. FOOTING BACKFILL AND UTILITY TRENCH BACKFILL WITHIN THE BUILDING'S PERIMETER SHALL BE MECHANICALLY COMPACTED IN LAYERS, TO THE APPROVAL OF THE GEOTECHNICAL ENGINEER.
13. UNLESS OTHERWISE INDICATED, BACKFILL SHALL NOT BE PLACED AGAINST WALLS RETAINING EARTH (OTHER THAN CANTILEVER WALLS), UNTIL THE FLOOR CONSTRUCTIONS OR PERMANENT PROPPING/ TIE BACKS PROVIDING LATERAL SUPPORT TO THE WALL ARE IN PLACE AND HAVE ATTAINED 85 PERCENT OF THEIR DESIGN STRENGTH.
14. BACKFILLING AGAINST FOUNDATION WALLS, WHERE THERE IS GRADE ON BOTH SIDES OF THE WALL, SHALL BE CARRIED OUT IN SUCH A MANNER THAT THE DIFFERENCE IN SOIL LEVELS IS NEVER MORE THAN 2 FEET.
15. FOOTINGS SHALL BE PROVIDED FOR ALL NON-LOAD BEARING MASONRY WALLS 10 INCHES OR THICKER. 8-INCH THICK NON-LOAD BEARING MASONRY WALLS SHALL REST ON THICKENED SLAB ON GRADE, AS SHOWN IN TYPICAL DETAILS. ALL NON-LOAD BEARING WALLS 6 INCH THICK AND LESS SHALL REST ON THE SLAB ON GRADE, UNLESS OTHERWISE SHOWN OR NOTED.

SLABS ON GRADE

1. SLABS ON GRADE SHALL BE PLACED ON MATERIAL CAPABLE OF SUSTAINING 250 PSF WITHOUT SIGNIFICANT SETTLEMENT RELATIVE TO THE BUILDING'S FOUNDATIONS.
2. SLAB ON GRADE BACKFILL SHALL BE COMPACTED TO HIGH DENSITY EQUIVALENT TO A MINIMUM OF 98% MAXIMUM DENSITY AT OPTIMUM MOISTURE DETERMINED BY SOIL COMPACTION TEST (ASTM D698)
3. A MINIMUM OF 6 INCHES THICK COMPACTED GRANULAR LAYER IS TO BE PLACED UNDER ALL GRADE SLABS. GRANULAR MATERIAL MAY BE SAND, SAND-GRAVEL, SAND AND CRUSHED STONE, 3/4" MAX RECYCLED CONCRETE AGGREGATE MATERIAL WITH LESS THAN 10% FINES, OR A COMBINATION OF THESE MATERIALS. A TOP LAYER OF AT LEAST 1 INCH OF SAND SHALL BE PROVIDED.
4. A VAPOR BARRIER ACCORDING SPECIFICATIONS SHALL BE PLACED BELOW THE COMPACTED GRANULAR LAYER.
5. FOR DETAILS OF WATERPROOFING NOT SHOWN ON STRUCTURAL DRAWINGS, SEE ARCHITECTURAL DRAWINGS.
6. ISOLATION JOINTS SHALL BE PROVIDED AT SLAB EDGES ABUTTING CONCRETE ELEMENTS AND CONTRACTION AND CONSTRUCTION JOINTS ACCORDING TO TYPICAL DETAILS.

REINFORCED CONCRETE

1. STRUCTURAL CONCRETE STRENGTHS AND TYPES USED IN THIS PROJECT SHALL BE AS FOLLOWS:

LOCATION IN STRUCTURE	f'c (PSI)	AGGREGATE	SPEC MIX CLASS
FOOTINGS, CAISSONS	4000	NORMAL WEIGHT	
SLAB ON GRADE	4000	NORMAL WEIGHT	
WALLS AND COLUMNS	5000	NORMAL WEIGHT	
BEAMS AND SLABS	5000	NORMAL WEIGHT	
SLAB ON STEEL DECK	4000	NORMAL WEIGHT	
EQUIPMENT PADS AND CURBS	4000	LIGHTWEIGHT	
LEAN CONCRETE	2500	LIGHTWEIGHT	

2. ALL CONCRETE MIXES SHALL COMPLY WITH THE REQUIREMENTS OF THE BUILDING CODE AND THE ACI 318. MIX DESIGNS FOR EACH TYPE AND STRENGTH SHALL BE PREPARED BY CONTRACTOR AND TESTED BY AN INDEPENDENT TESTING LABORATORY. THE MIX DESIGNS SHALL THEN BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL.
3. PORTLAND CEMENT SHALL CONFORM TO ASTM C150. WHERE CONCRETE IS IN CONTACT WITH SOIL, THE TYPE OF EXPOSURE SHALL DETERMINE THE CEMENT TYPE:
   - A. SEVERE SULFATE EXPOSURE
   - B. MODERATE SULFATE EXPOSURE
   - C. ALL OTHER

   CONTRACTOR SHALL DETERMINE THE LEVEL OF EXPOSURE BY TESTING OR OTHER SUITABLE MEANS.
4. FLY ASH MAY BE USED IN CONCRETE MIXES. THE FLY ASH SHALL CONFORM TO ASTM C618, CLASS F AND ITS ADDITION SHALL NOT EXCEED 15% OF THE CEMENT WEIGHT.
5. NORMAL WEIGHT AGGREGATE SHALL CONFORM TO THE REQUIREMENTS OF ASTM C33.
6. LIGHTWEIGHT AGGREGATE SHALL CONFORM TO THE REQUIREMENTS OF ASTM C330 AND ASTM C157.
7. CONCRETE FORMS SHALL BE LAID OUT AND CONSTRUCTED TO PROVIDE THE SPECIFIED CAMBERS INDICATED ON THE STRUCTURAL DRAWINGS, AND SHALL COMPLY WITH REQUIREMENTS OF ACI 318
8. THE PROJECTING CORNERS OF COLUMNS, BEAMS, WALLS, ETC. SHALL BE FORMED WITH 3/4 INCH CHAMFER, UNLESS OTHERWISE NOTED ON ARCHITECTURAL DRAWINGS.
9. CONSTRUCTION JOINTS SHALL BE DOWELLED, KEYED AND THE SURFACES SHALL BE CLEANED AND LAITANCE REMOVED. ALTERNATIVELY, WHERE APPROVED BY ENGINEER, PROVIDE JOINTS CLEANED AND ROUGHENED TO 1/4 INCH AMPLITUDE BY MECHANICAL METHODS.
10. LOCATION OF CONSTRUCTION JOINTS SHALL BE AS INDICATED ON STRUCTURAL DRAWINGS. PROVIDE WATERSTOPS FOR ALL CONSTRUCTION JOINTS BELOW WATER TABLE.
11. REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615, GRADE 60. REINFORCING BARS, WHICH ARE TO BE WELDED, SHALL CONFORM TO APPLICABLE ASTM AND AWS SPECIFICATIONS.
12. ALL REINFORCING BARS MARKED "CONTINUOUS" SHALL BE TENSION SPLICED, UNLESS OTHERWISE SHOWN ON DRAWINGS.
13. ALL BARS AT NON-CONTINUOUS ENDS SHALL HAVE A STANDARD HOOK.
14. PROVIDE DEVELOPMENT AND SPLICES OF REINFORCEMENT ACCORDING TO THE TYPICAL DETAIL TABLES.
15. UNLESS OTHERWISE NOTED, ALL DOWELS SHALL BE FULLY DEVELOPED IN TENSION, UNLESS OTHERWISE NOTED.
16. DOWEL TO WALLS AND COLUMNS SHALL MATCH THE CORRESPONDING REINFORCING OF THE WALL OR COLUMN.
17. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. USE ONLY FLAT SHEETS.
18. MINIMUM LAP OF WELDED WIRE FABRIC SHALL BE 6 INCHES OR ONE FULL MESH, WHICHEVER IS GREATER.
19. ALL REINFORCING STEEL SHALL BE SECURELY HELD IN ORDER TO MAINTAIN ITS POSITION WHILE CONCRETE IS POURED. CHAIRS, TIES, SPACERS, ADDITIONAL BARS AND STIRRUPS, ETC. SHALL BE PROVIDED BY THE CONTRACTOR.
20. CONTRACTOR SHALL COORDINATE AND INSTALL ALL REQUIRED EMBEDDED ITEMS, SLEEVES, POCKETS, ETC. PRIOR TO CONCRETE PLACEMENT. REFER TO TYPICAL DETAILS OF PENETRATIONS FOR LIMITATIONS ON THEIR POSITIONING IN RESPECT TO REINFORCING. DO NOT CUT ANY REINFORCING THAT MIGHT INTERFERE WITH EMBEDDED ITEMS PLACEMENT.
21. MECHANICAL PIPES AND/OR ELECTRICAL CONDUITS SHALL NOT PASS THROUGH CONCRETE COLUMNS AND BEAMS, UNLESS SPECIFICALLY DETAILED ON DRAWINGS.
22. NO ALUMINUM SHALL BE EMBEDDED IN CONCRETE.
23. CONTRACTOR SHALL NOTIFY TESTING AGENCY AND OWNER, 24 HOURS BEFORE POURING OF CONCRETE, FOR INSPECTION OF REINFORCEMENT LAYOUT. NO CONCRETE SHALL BE POURED UNLESS ALL REINFORCEMENT AND INSTALLATIONS HAVE BEEN INSPECTED AND APPROVED BY THE TESTING AGENCY.
24. CONCRETE CAST ON SLOPED SURFACES SHALL BEGIN AT THE LOWEST ELEVATION AND CONTINUE MONOLITHICALLY TOWARD THE HIGHER ELEVATION.

STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL BE PROVIDED AS FOLLOWS:

SHAPE	ASTM STANDARD	Fy (KSI)
WIDE FLANGES	A992	50
CHANNELS	A572 GRADE 50	50
HSS (RECTANGULAR AND SQUARE)	A500 GRADE B	46
HSS (ROUND)	A500 GRADE B [C]	42 [46]
PIPES	A53 GRADE B	35
ANGLES	A36 [A572 GRADE 50]	36 [50]
PLATES	A36 [A572 GRADE 50]	36 [50]
TEES	A992	50

Fy IS THE MINIMUM TENSILE YIELDING STRESS TO BE PROVIDED UNLESS OTHERWISE NOTED.

2. ALL BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS CONFORMING TO ASTM A 325 OR ASTM A 490. ALL CONNECTIONS SHALL BE TYPE N UNLESS OTHERWISE NOTED ON DRAWINGS.
3. NUTS SHALL CONFORM TO ASTM A563, DH OR ASTM A194, 2H. PROVIDE WASHERS CONFORMING TO ASTM F436 AT EACH THREADED ROD OR BOLT.
4. BOLT HOLES IN STEEL MEMBERS, WITH THE EXCEPTION OF BASE PLATES, SHALL BE 1/16 INCH LARGER IN DIAMETER THAN THE NOMINAL SIZE OF BOLT USED, UNLESS NOTED OTHERWISE ON DRAWINGS.
5. BOLT HOLES IN STEEL BASE PLATES SHALL BE OF THE SIZE MARKED ON DRAWINGS. PROVIDE WELDED PLATE WASHERS 3"x 3"x 3/8" THICK MINIMUM.
6. ANCHOR BOLTS SHALL BE ROUND BAR STOCK, THREADED, CONFORMING TO ASTM F1554, GRADE 36 UNLESS OTHERWISE NOTED. ANCHOR BOLTS SHALL BE SUPPLIED WITH CORRESPONDING NUTS AND WASHERS.
7. THREADED RODS SHALL HAVE THREADS CONFORMING TO UNC CLASS 2A (EXTERIOR THREADS) AND 2B (INTERNAL THREADS).
8. WELDING MATERIALS SHALL CONFORM TO AWS D1.1. ELECTRODES SHALL HAVE A MINIMUM TENSILE STRENGTH OF 70 KSI AND BE LOW-HYDROGEN TYPE.
9. WELD LENGTHS CALLED FOR ON PLANS ARE THE NET EFFECTIVE LENGTHS REQUIRED.
10. AT PARTIAL PENETRATION WELDS THE SIZE GIVEN IS THE MINIMUM EFFECTIVE THROAT. FABRICATOR SHALL PROVIDE PROPER JOINT PREPARATION TO ACHIEVE THE MINIMUM EFFECTIVE THROAT AS REQUIRED BY THE AWS CODE.
11. SPLICES SHALL BE DESIGNED TO DEVELOP THE FULL CAPACITY OF THE MEMBER AT THE POINT OF SPLICE. SPLICES SHALL BE MADE ONLY AT LOCATIONS INDICATED ON DRAWINGS, FULL DETAIL AND BACK-UP CALCULATIONS OF SPLICES REQUIRE REVIEW AND APPROVAL BY THE ENGINEER.
12. SHAPE AND SIZE GUSSET PLATES IN SUCH A MANNER AS TO CLEAR ALL ARCHITECTURAL FINISHES AND MECHANICAL FIXTURES (DUCTS, PIPES, ETC.). SUBMIT THE CONFIGURATION OF ALL GUSSET PLATES EXPOSED TO VIEW TO ARCHITECT AND ENGINEER FOR REVIEW AND APPROVAL.
13. CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY BRACING, GUYING AND CONNECTING MEMBERS REQUIRED TO ERECT THE STRUCTURE, MAINTAIN CORRECT ALIGNMENT AND SAFELY RESIST ALL POSSIBLE COMBINATIONS OF DEAD, CONSTRUCTION, ERECTION, WIND AND OTHER LATERAL LOADS.
14. REFER TO SPECIFICATIONS FOR STEELWORK PROTECTION AND COATINGS.

STEEL FRAMING NOTES

1. STEEL MEMBERS ARE ASSUMED TO BE VERTICAL AND DIMENSIONED TO THEIR CENTERLINE UNLESS OTHERWISE INDICATED.
2. STEEL MEMBERS NOT LOCATED IN PLAN BY A DIMENSION LINE SHALL BE EQUALLY SPACED BETWEEN DIMENSIONED MEMBERS.
3. FOR SLOPING MEMBERS, THE TOP OF STEEL ELEVATIONS AT THE LOW AND HIGH POINTS SHALL COINCIDE WITH THE TOP OF STEEL ELEVATIONS OF THE MEMBERS THEY ARE FRAMING TO AT THESE LOCATIONS, UNLESS OTHERWISE NOTED.
4. ALL CONNECTIONS SHALL BE COMPLETED PRIOR TO CASTING SLAB.
5. SLABS SHALL BE CAST TO A CONSTANT THICKNESS OVER BEAMS USING DEPTH GAGES. PROVIDE ADDITIONAL CONCRETE FOR DEFLECTION OF DECK. AFTER CONCRETE PLACEMENT FINISH SLABS TO REQUIRED TOLERANCES.
6. POUR STOP ANGLES SHOWN ARE MINIMUM. PROVIDE HEAVIER GAGE AND STRAPS AS REQUIRED TO ACHIEVE REQUIRED EDGE OF SLAB TOLERANCES.

STEEL DECK

1. STEEL DECK AND ACCESSORIES SHALL BE FROM STEEL CONFORMING TO ASTM A1008 OR ASTM A653 WITH A MINIMUM YIELD STRESS OF 33 KSI.
2. GALVANIZING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A653 WITH A MINIMUM COATING OF G60.
3. DECK SHALL BE COMPOSITE AND 20 GAGE MINIMUM THICKNESS UNLESS OTHERWISE NOTED. DECK SHALL BE BY VULCRAFT OR APPROVED EQUAL. REFER TO DRAWINGS FOR OTHER REQUIREMENTS.
4. DECK WELDING SHALL COMPLY WITH THE BUILDING CODE AND AWS-D1.3, WITH APPROPRIATE ELECTRODES.
5. DECK SHALL BE ATTACHED TO SUPPORTING STRUCTURAL MEMBERS BY 5/8" DIAMETER PUDDLE WELDS PLACED AT EACH DECK RIB OR AT 12 INCHES ON CENTER MAX, DEPENDING ON THE DECK ORIENTATION RELATIVE TO THE SUPPORTING MEMBERS. THIS WELD CAN BE OMITTED IN RIBS THAT HAVE SHEAR STUD CONNECTORS. AT THE CORNER AND PERIMETER AREAS OF THE ROOF, WELD SPACING SHALL NOT EXCEED 6 INCHES ON CENTER.
6. SIDE LAPS BETWEEN ADJACENT UNITS SHALL BE FASTENED BY BUTTON PUNCHING AT 12 INCHES ON CENTER OR BY #10 SCREWS AT 24 INCHES ON CENTER. FOR DECK WITHOUT CONCRETE FILL, USE #10 SCREWS AT 24 INCHES ON CENTER
7. PROVIDE 2 INCHES MINIMUM END BEARING AT DECK SUPPORTS. PROVIDE 3 INCHES MINIMUM END BEARING WHERE DECK IS USED WITHOUT CONCRETE FILL.
8. PROVIDE MISCELLANEOUS TRIMMING STEEL AS REQUIRED TO SUPPORT THE DECK WHERE NOT SPECIFICALLY SHOWN ON DRAWINGS.

STUD SHEAR CONNECTORS

1. STUD SHEAR CONNECTORS SHALL CONFORM TO ASTM A108. STUDS SHALL BE NELSON FLUX FILLED SHEAR CONNECTORS OR APPROVED EQUAL.
2. THE STUDS SHALL BE AUTOMATICALLY END WELDED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

COST ESTIMATE QUANTITIES

FLOOR FRAMING, ROOF FRAMING, COLUMNS AND BRACING	17.7 PSF SEE NOTE 1
FRAMING PREMIUMS:	
PERIMETER TRUSSES	140 TONS
ANGLE KICKERS FOR FAÇADE SUPPORT	8 LBS / FT SEE NOTE 2
GREEN ROOF ON CAFÉ	8 TONS
CONNECTIONS	10% OF TONNAGE

SLAB ON METAL DECK	4.5" NWC SLAB ON 3" METAL DECK (7.5" TOTAL THICKNESS)
SLAB ON GRADE	7" THICK

FOUNDATIONS:	
PILES	36" DIA x 40' DEEP
PILE CAPS	36" DEEP
SPREAD FOOTINGS	30" DEEP

PREMIA FOR BELOW GRADE DUCTS:	
EXCAVATION	970 CU YD
SLAB ON GRADE	30 CU YD
STEEL PREMIUM FOR SUSPENDED FLOOR	15 TONS
SUSPSPENDED FLOOR	3470 SQ. FT.
PREMIUM FOR PILE CAP RECESS	780 CU YD CONCRETE CAP 110 LF OF PILE

NOTES

1. APPLY ALLOWANCE FOR FLOOR FRAMING, ROOF FRAMING, COLUMNS AND BRACING OVER THE FULL PLAN AREA OF THE ROOF, SUSPENDED STEEL FLOORS AND THE LOBBY SKYLIGHT, INCLUDING THE MAIN BUILDING AND CAFÉ AREAS, EXCLUDING THE AREA OF FLOOR AND ROOF PENETRATIONS.
2. APPLY ALLOWANCE FOR FAÇADE SUPPORT ANGLE KICKERS ALONG THE HEADER OF ALL GLAZED FAÇADE ASSEMBLIES.
3. SEE DRAWINGS FOR LAYOUT AND QUANTITY OF FOUNDATION ELEMENTS.
4. ALLOW FOR TYPICAL QUANTITY OF ELEVATOR SUPPORT STEEL.
5. ALLOW FOR TYPICAL QUANTITY OF BEAM WEB PENETRATIONS.
6. SEE ARCHITECTURAL DRAWINGS FOR HANDRAILS, POSTS, TREADS, RISERS, NOSINGS AND OTHER MISCELLANEOUS METALS.

STRUCTURAL SYMBOLS

- I — DENOTES WIDE FLANGE COLUMN SECTION.
- ▢ — DENOTES STEEL HSS COLUMN SECTION
- Ⓐ — DENOTES VERTICAL COLUMN ABOVE ONLY
- Ⓑ — DENOTES VERTICAL COLUMN BELOW ONLY
- ---------- — DENOTES TRUSS DIAGONAL THIS LEVEL ONLY
- BFR ---------- — DENOTES BRACED FRAME DIAGONAL THIS LEVEL
- ———— — DENOTES FLOOR FRAMING SUBJECTED TO VERTICAL FORCES ONLY
- ▶———◀ — DENOTES FULL STRENGTH MOMENT CONNECTION
- DENOTES DROP IN SLAB
- DENOTES SLOPED SLAB
- DENOTES GEOTECHNICAL FILL

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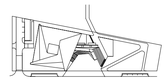
KEY PLAN



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GENERAL NOTES

12" = 1'-0"

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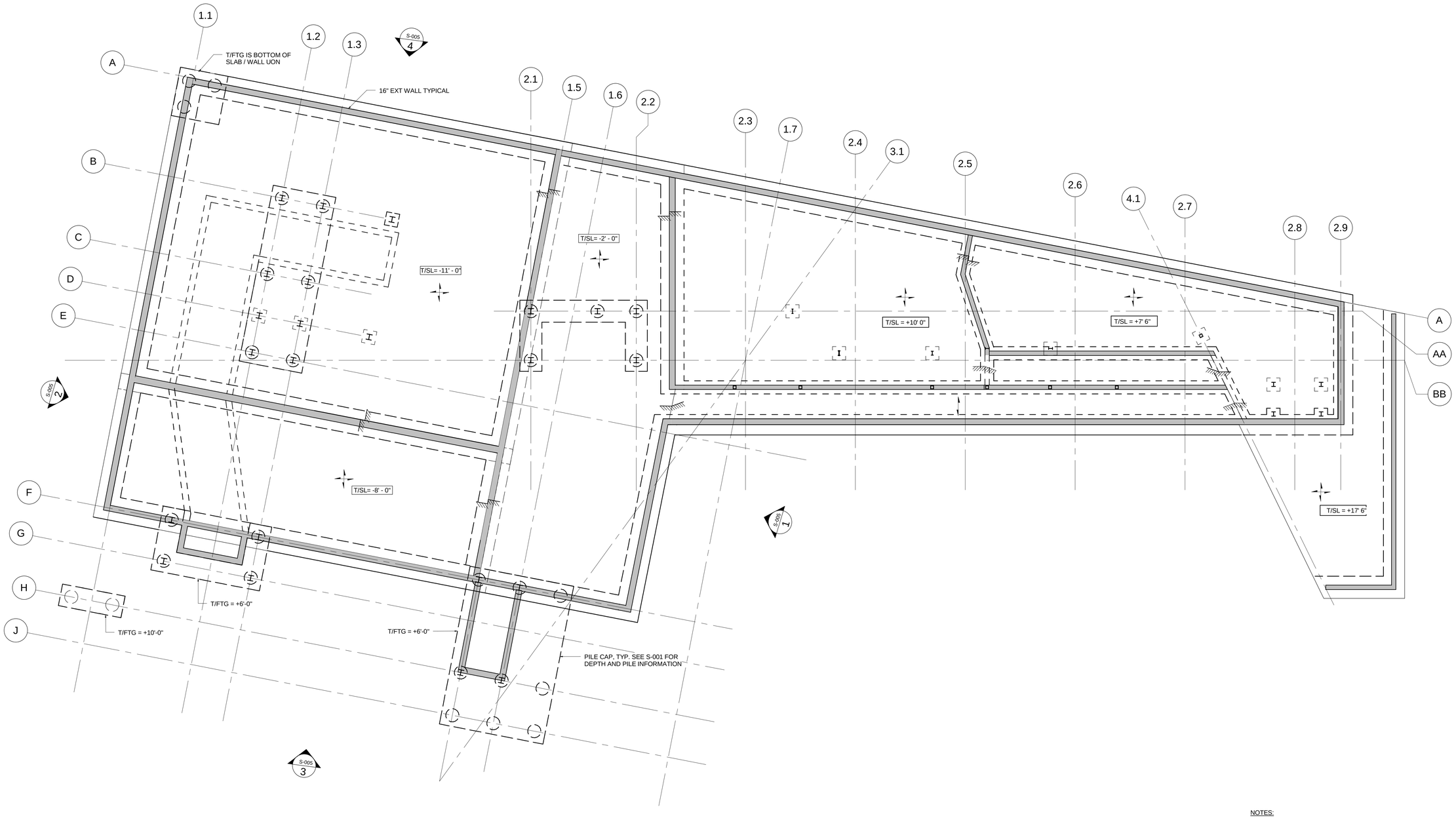

1 FOUNDATION PLAN - EL. -2/-11

3/32" = 1'-0"

NOTES:

1. SEE GENERAL NOTES, FOUNDATIONS, NOTES 2 AND 3.

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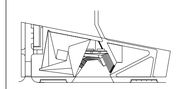

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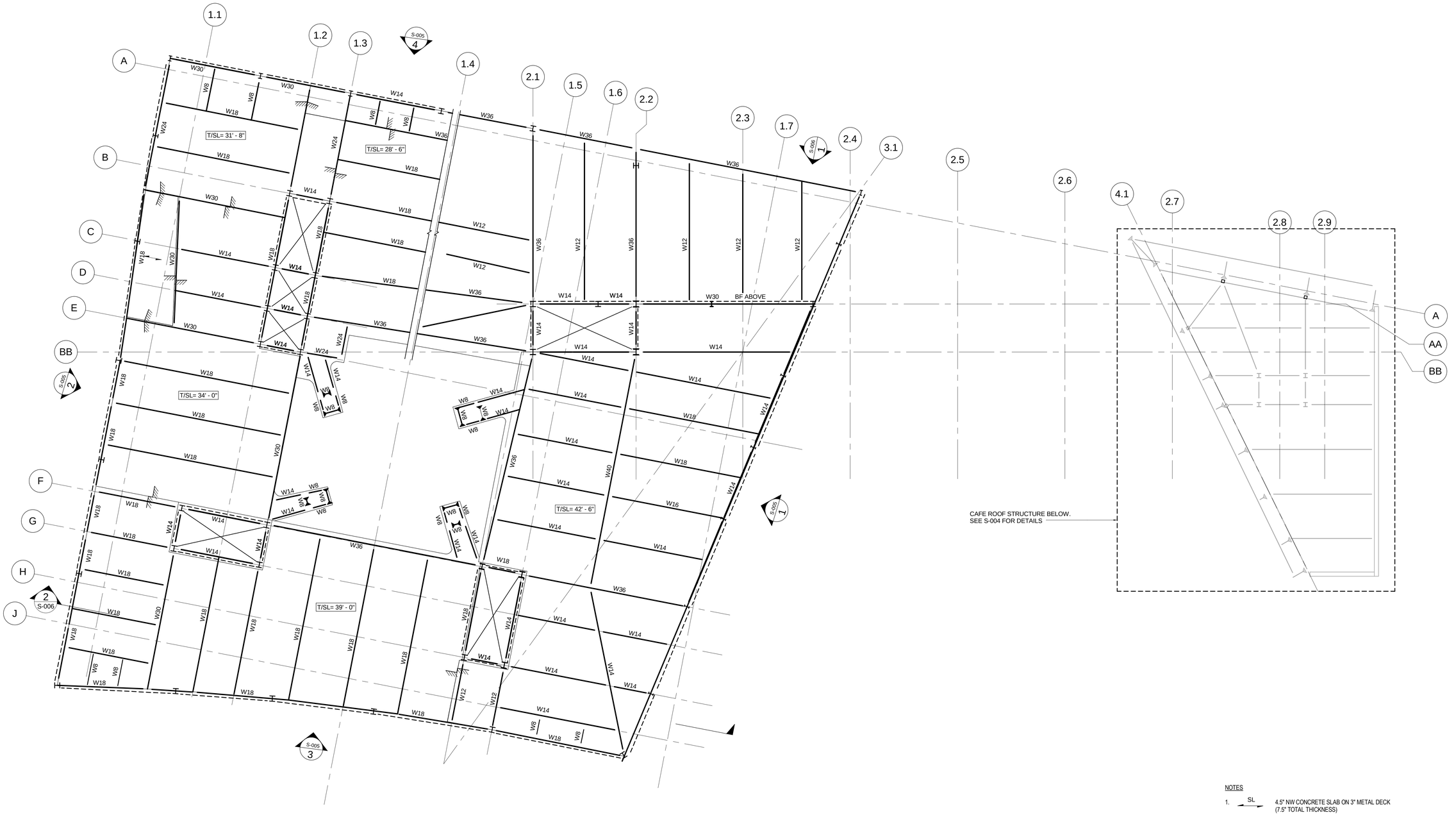

1 EL 42.5 - UPPER LEVEL FRAMING PLAN

3/32" = 1'-0"

NOTES

1. SL — 4.5" NW CONCRETE SLAB ON 3" METAL DECK (7.5" TOTAL THICKNESS)
2. ALLOW FOR TYPICAL QUANTITY OF ELEVATORS SUPPORT STEEL AT ALL ELEVATOR SHAFTS

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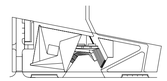

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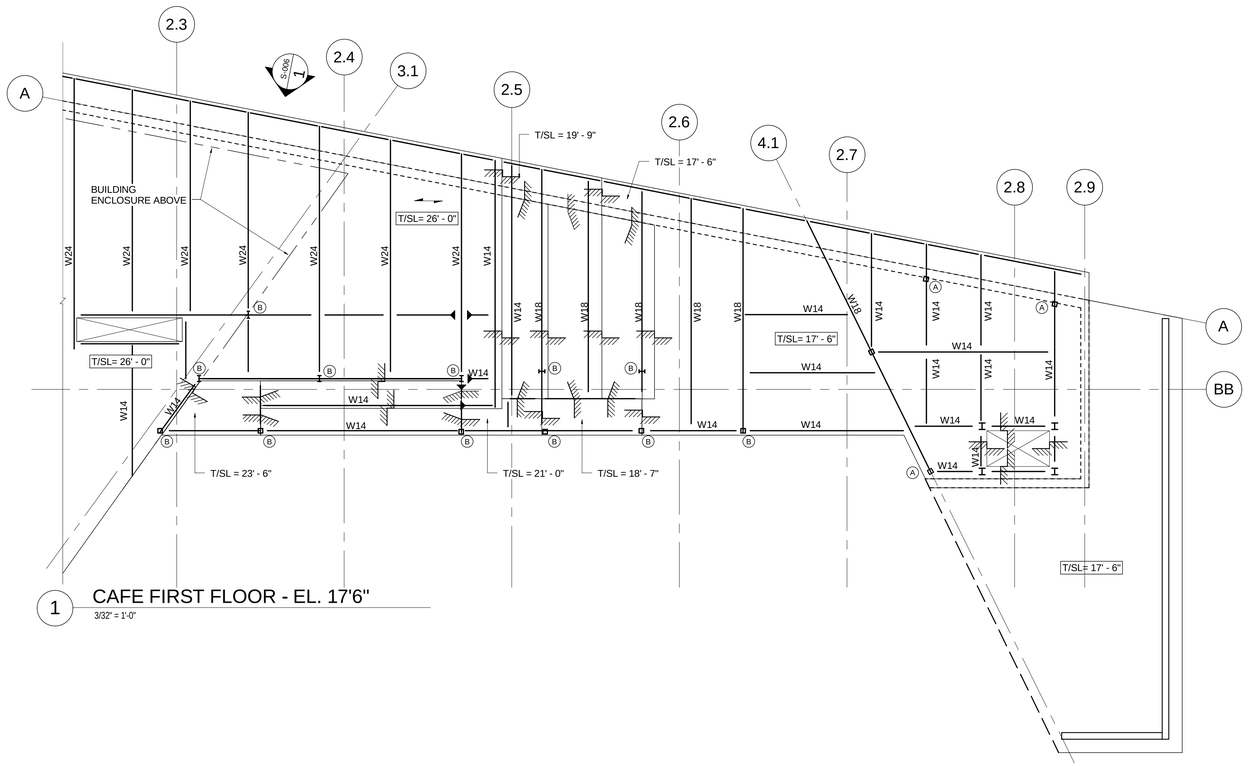
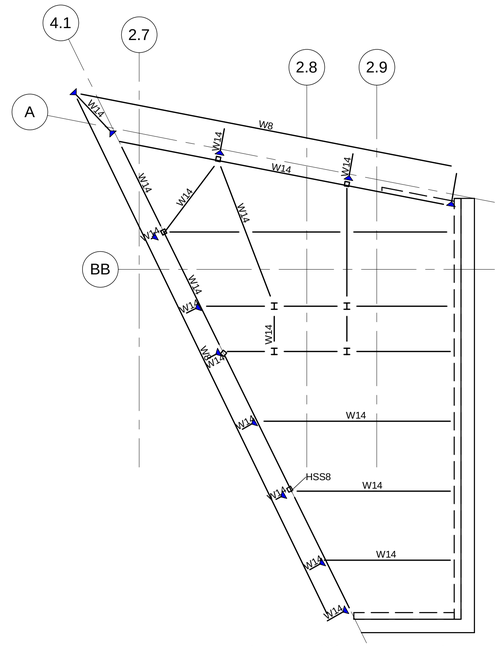


1 CAFE FIRST FLOOR - EL. 17'6"

3/32" = 1'-0"



2 CAFE ROOF FRAMING

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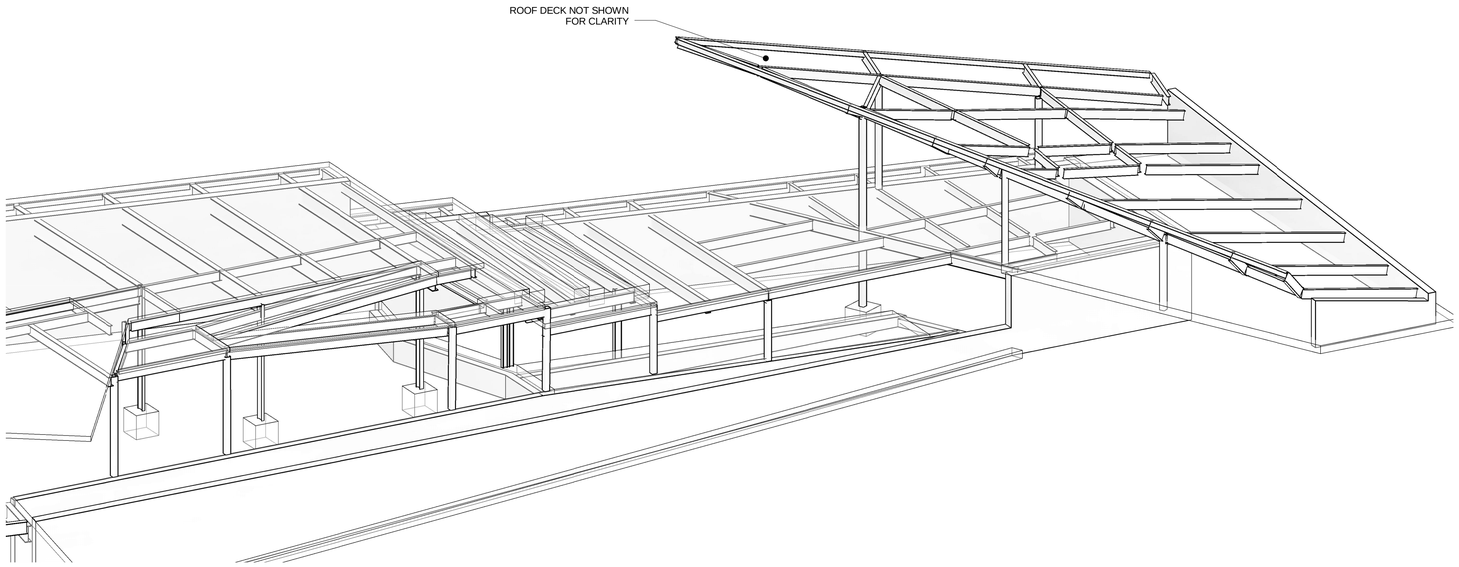

3 ISOMETRIC VIEW - LOOKING NORTHWEST

NOTES

1. SL — 4.5" NW CONCRETE SLAB ON 3" METAL DECK (7.5" TOTAL THICKNESS)
2. ALLOW FOR TYPICAL QUANTITY OF ELEVATORS SUPPORT STEEL AT ALL ELEVATOR SHAFTS

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T: 212.896.3000

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T: 303.988.4514

ELECTRICAL ENGINEER:
ME ENGINEERS
3425 AUSTIN BLUFFS PKWY, 201
COLORADO SPRINGS, COLORADO 80918
T: 719.536.0036

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LIGHTING:
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LANDSCAPE ARCHITECTS:
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EXECUTIVE LANDSCAPE ARCHITECTS:
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COLORADO SPRINGS, COLORADO 80903
T: 719.471.0073

CODE
ADVANCED CONSULTING ENGINEERS
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LAKEWOOD, CO 80235
T: 720.981.4150

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EAST RUTHERFORD, NJ 07073
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CIVIL
KIOWA
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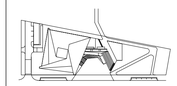
JENSEN HUGHES
4445 NORTHPARK DRIVE, SUITE 204
COLORADO SPRINGS, COLORADO 80907
T: 720.441.6608

KEY PLAN



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TITLE
CAFE FRAMING PLAN

As indicated

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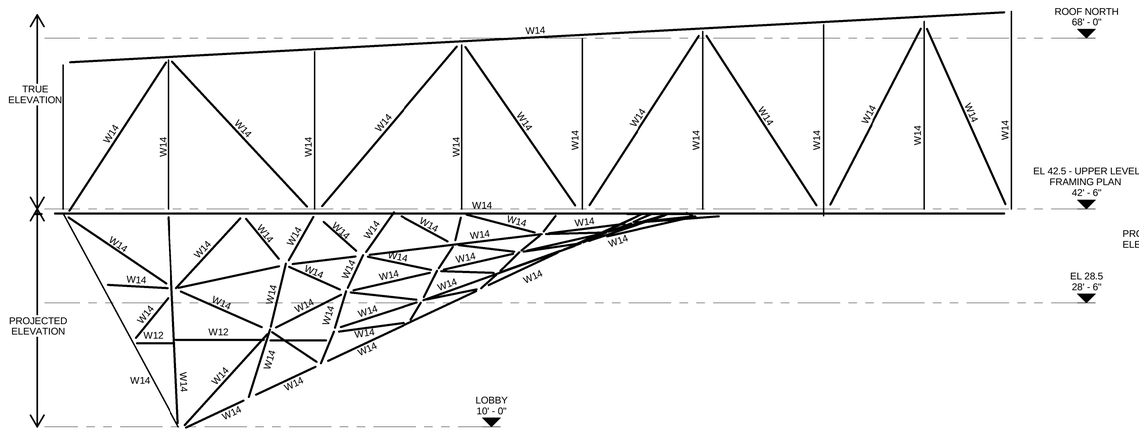
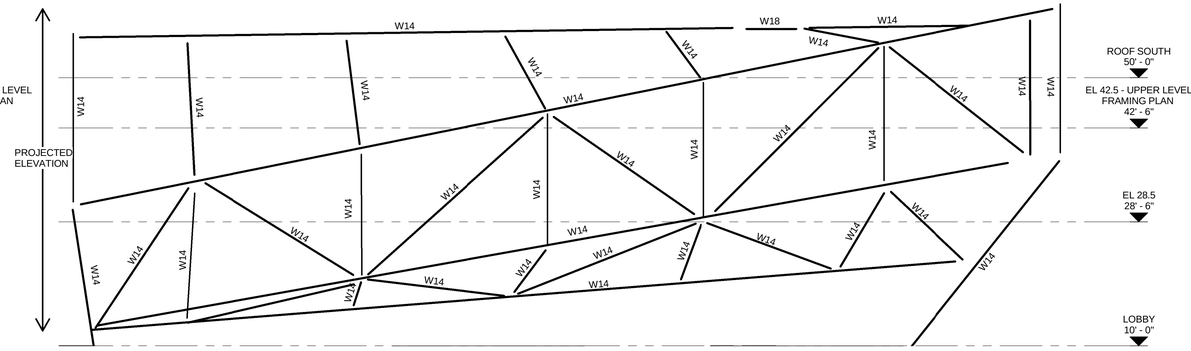


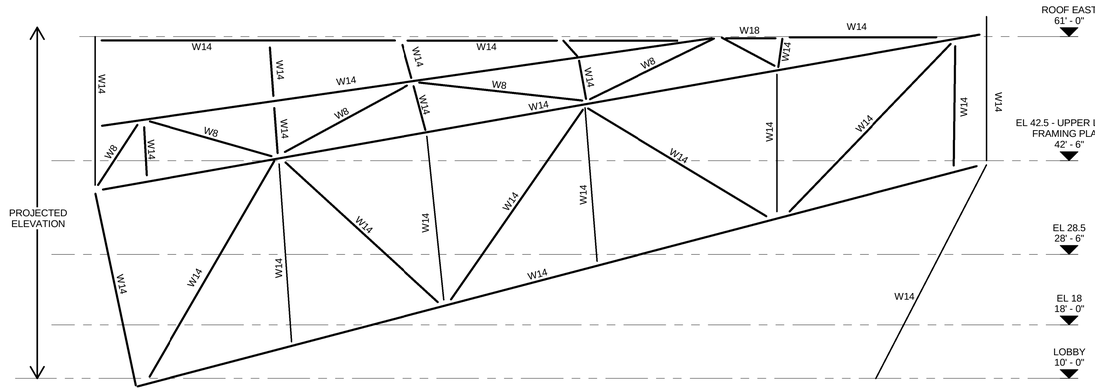
1 NORTH ELEVATION

3/32" = 1'-0"



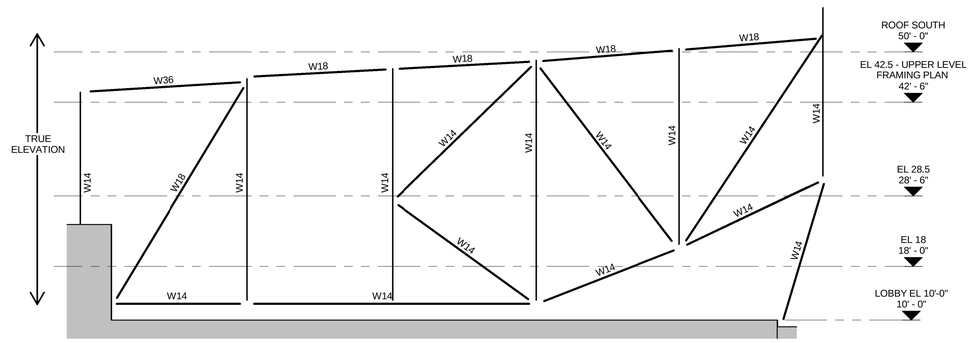
2 SOUTH ELEVATION

3/32" = 1'-0"



3 EAST ELEVATION

3/32" = 1'-0"



4 WEST ELEVATION

3/32" = 1'-0"

US OLYMPIC MUSEUM

OWNER:
United States Olympic Museum
P.O. Box 681
Colorado Spring, CO 80901
T: 719.358.6325

EXECUTIVE ARCHITECT:
Anderson Mason Dale Architects
3198 Speer Boulevard
Denver, CO 80211
T: 303.294.9448

DESIGNER:
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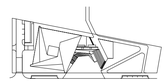
JENSEN HUGHES
4445 NORTHPARK DRIVE, SUITE 204
COLORADO SPRINGS, COLORADO 80907
T: 720.441.6608

KEY PLAN



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TITLE
PERIMETER TRUSS ELEVATIONS
3/32" = 1'-0"

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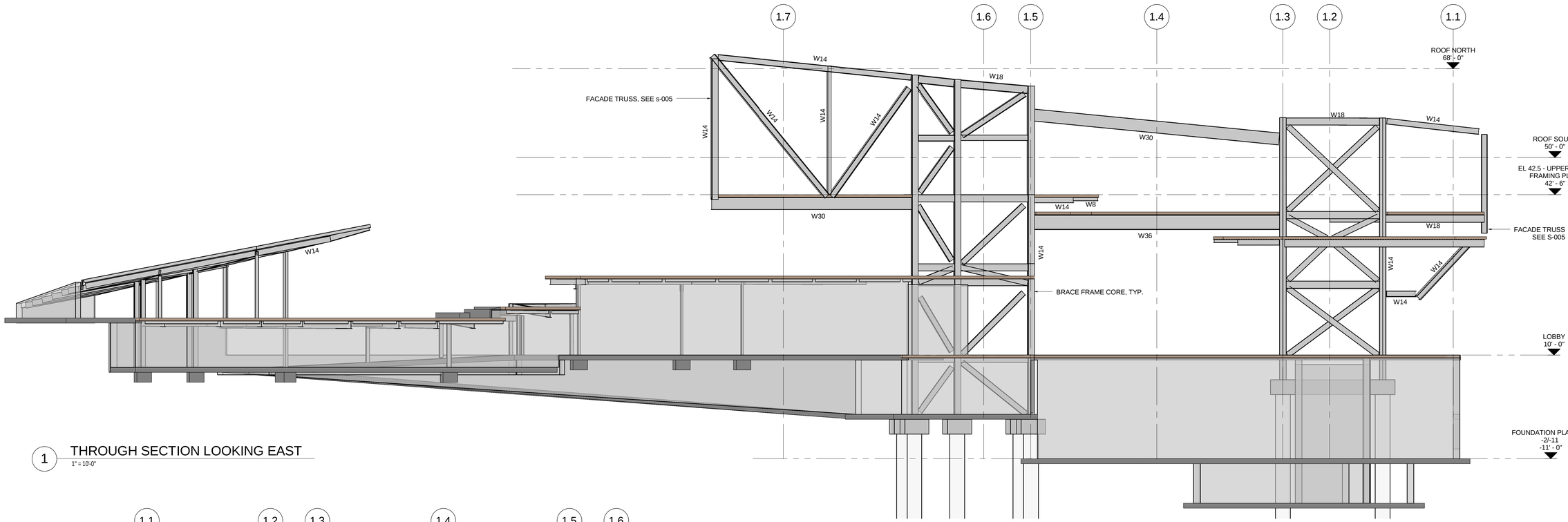
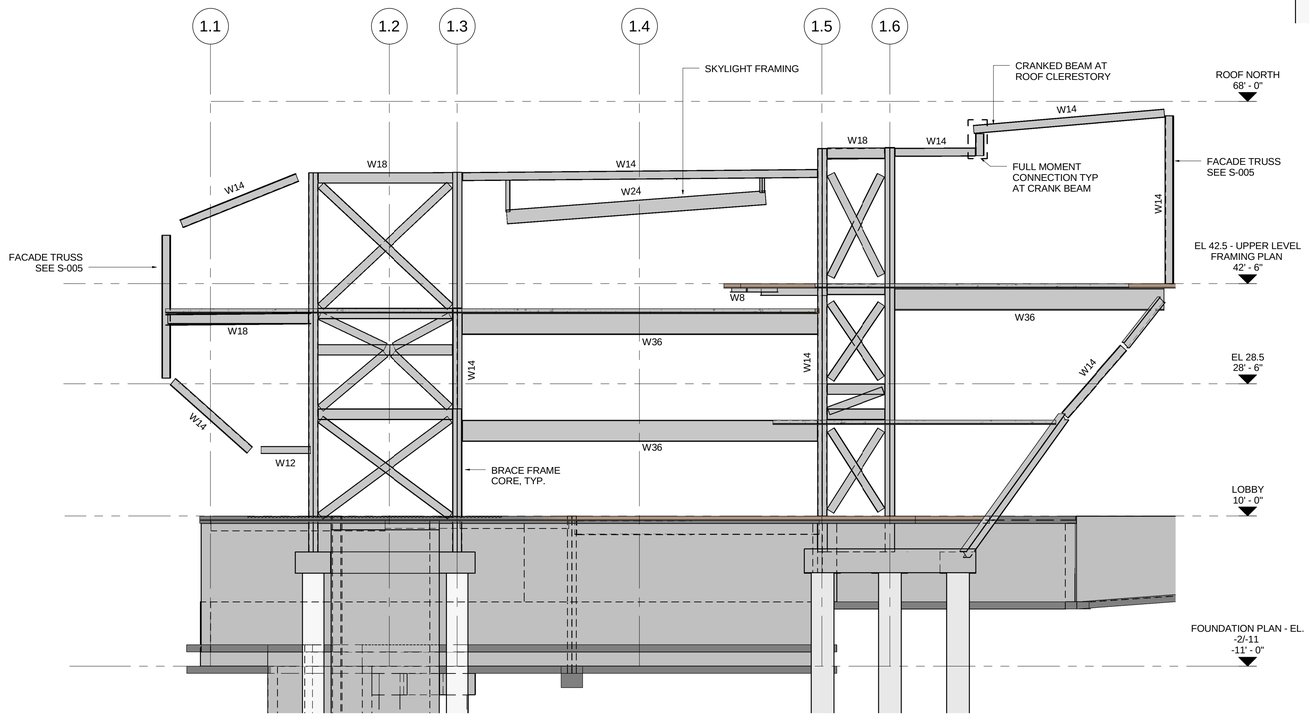


1 THROUGH SECTION LOOKING EAST

1" = 10'-0"



2 THROUGH SECTION LOOKING WEST

1" = 10'-0"

US OLYMPIC MUSEUM

OWNER:
United States Olympic Museum
P.O. Box 681
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T: 719.358.6325

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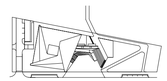
T: 720.441.6608

KEY PLAN



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TITLE
BUILDING SECTIONS

1" = 10'-0"

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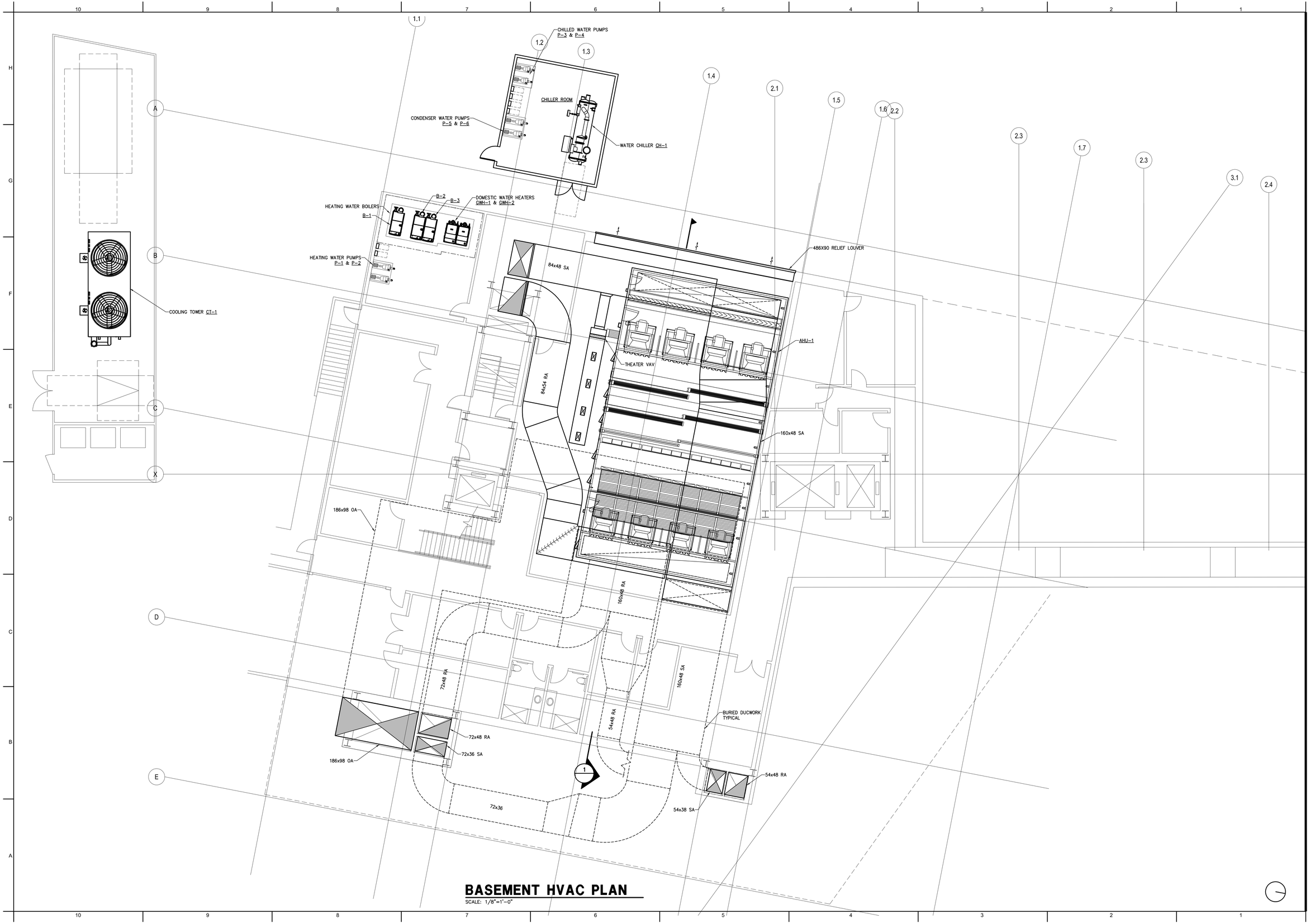

BASEMENT HVAC PLAN

SCALE: 1/8"=1'–0"

US OLYMPIC MUSEUM

OWNER:
United States Olympic Museum
P.O. Box 681
Colorado Spring, CO 80901
T: 719.358.6325

EXECUTIVE ARCHITECT:
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3198 Speer Boulevard
Denver, CO 80211
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BASEMENT HVAC PLAN

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BELOW GRADE HVAC PLAN

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

US OLYMPIC MUSEUM

OWNER:
United States Olympic Museum
P.O. Box 681
Colorado Spring, CO 80901
T: 719.358.6325

EXECUTIVE ARCHITECT:
Anderson Mason Dale Architects
3198 Speer Boulevard
Denver, CO 80211
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DESIGNER:
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T: 212.260.7971

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STRUCTURAL DESIGN:
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New York, New York 10005
T: 212.896.3000

EXECUTIVE STRUCTURAL ENGINEER:
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3425 AUSTIN BLUFFS PKWY, 201
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LIGHTING:
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New York, New York 10013
T: 212.675.7760

LANDSCAPE ARCHITECTS:
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New York, New York 10014
T: 212.337.9973

EXECUTIVE LANDSCAPE ARCHITECTS:
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619 N. CASCADE AVE., SUITE 200
COLORADO SPRINGS, COLORADO 80903
T: 719.471.0073

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LAKEWOOD, CO 80235
T: 720.981.4150

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T: 973.77.4404

CIVIL
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COLORADO SPRINGS, COLORADO 80904
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FIRE ALARM AND SPRINKLER, ATRIUM FIRE SMOKE
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KEY PLAN

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BELOW GRADE HVAC PLAN

DRAWING NO.

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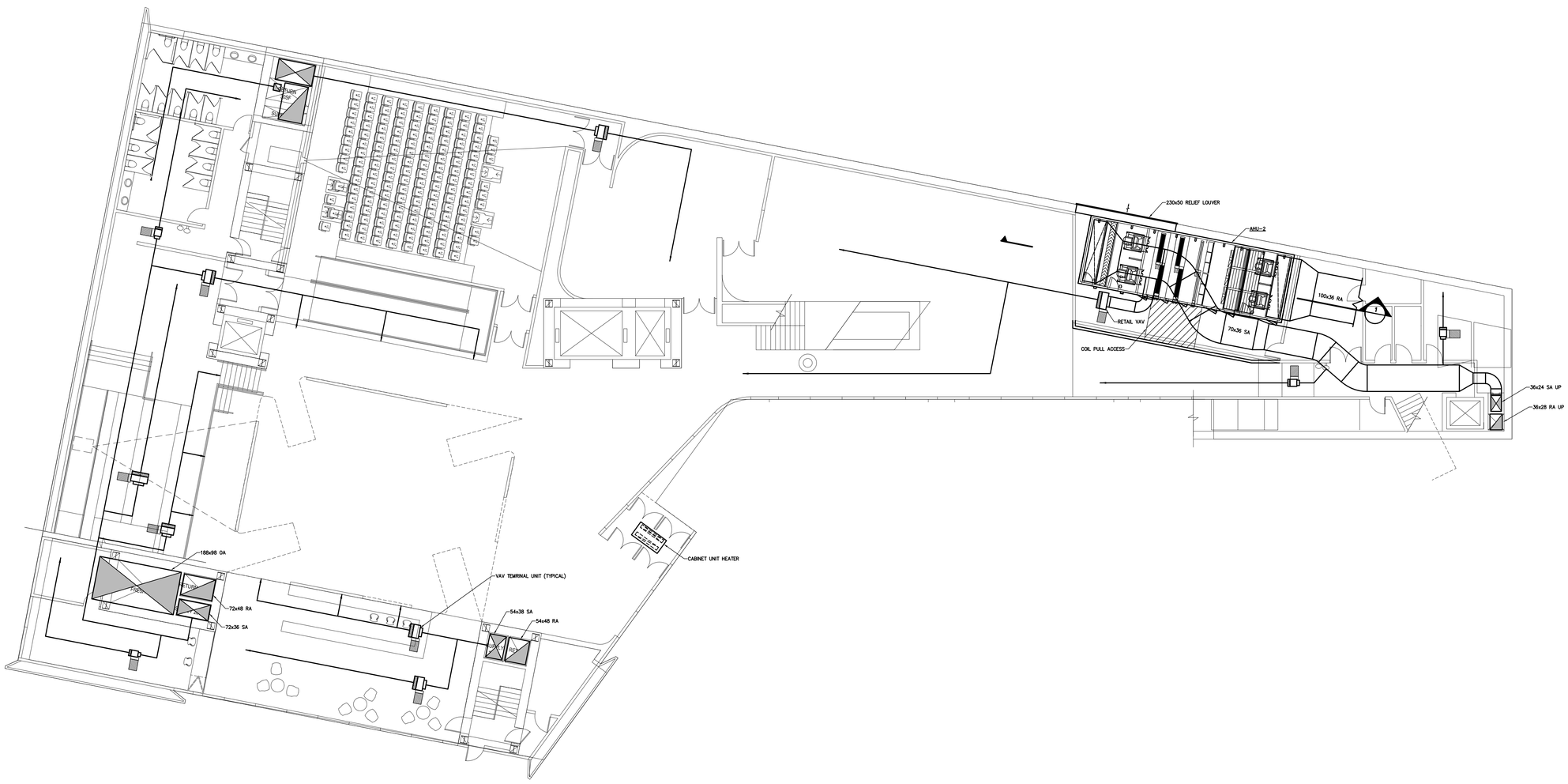

FIRST FLOOR HVAC PLAN

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

US OLYMPIC MUSEUM

OWNER:
United States Olympic Museum
P.O. Box 681
Colorado Spring, CO 80901
T: 719.358.6325

EXECUTIVE ARCHITECT:
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Denver, CO 80211
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KEY PLAN

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TITLE

FIRST FLOOR HVAC PLAN

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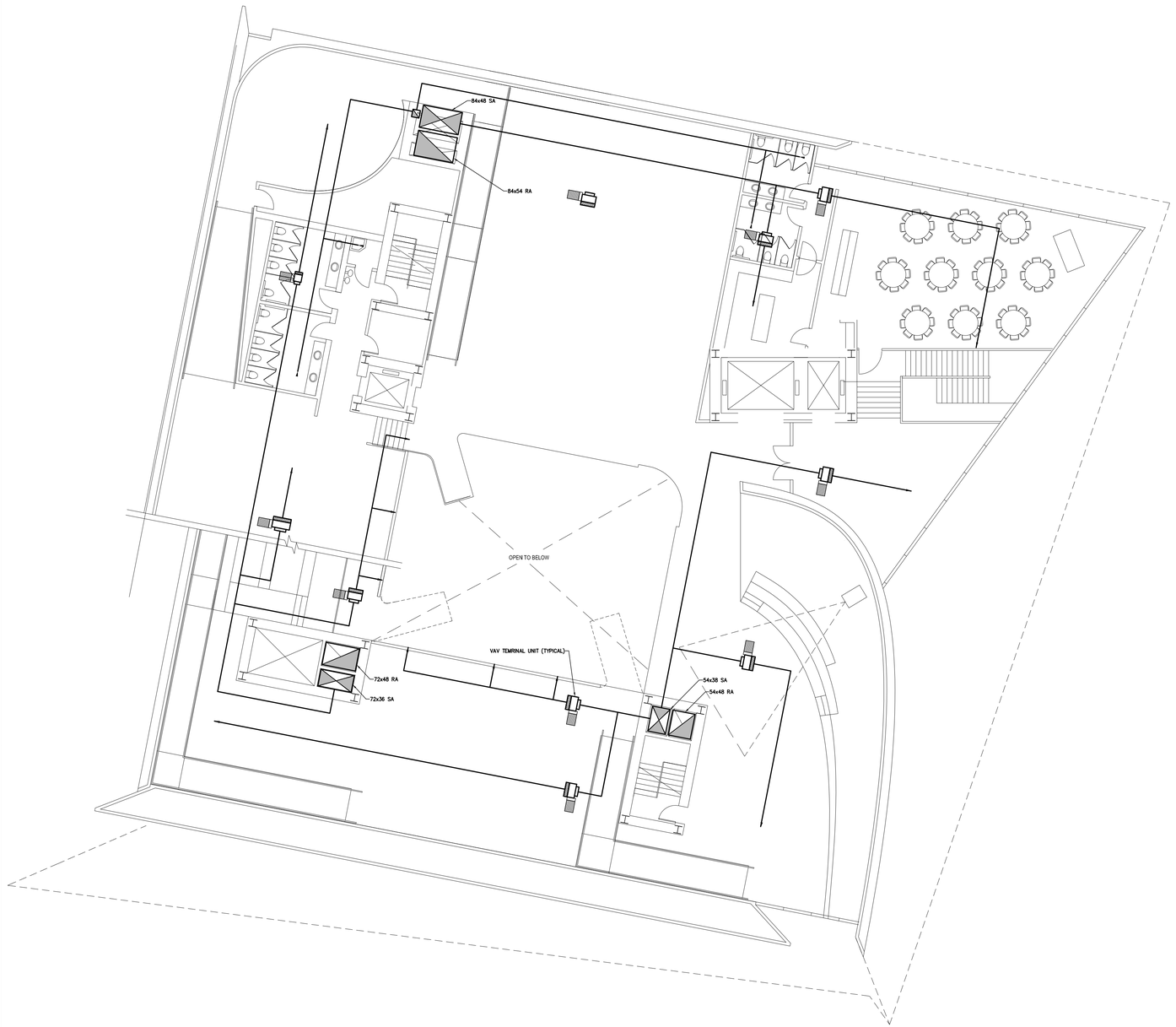

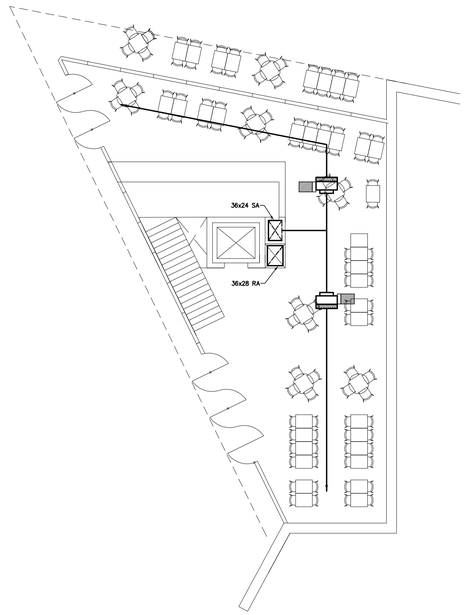

SECOND FLOOR HVAC PLAN

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

US OLYMPIC MUSEUM

OWNER:
United States Olympic Museum
P.O. Box 681
Colorado Spring, CO 80901
T: 719.358.6325

EXECUTIVE ARCHITECT:
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3198 Speer Boulevard
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DESIGNER:
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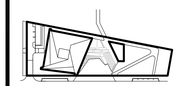
KEY PLAN



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SECOND FLOOR HVAC PLAN

DRAWING NO.

M-102

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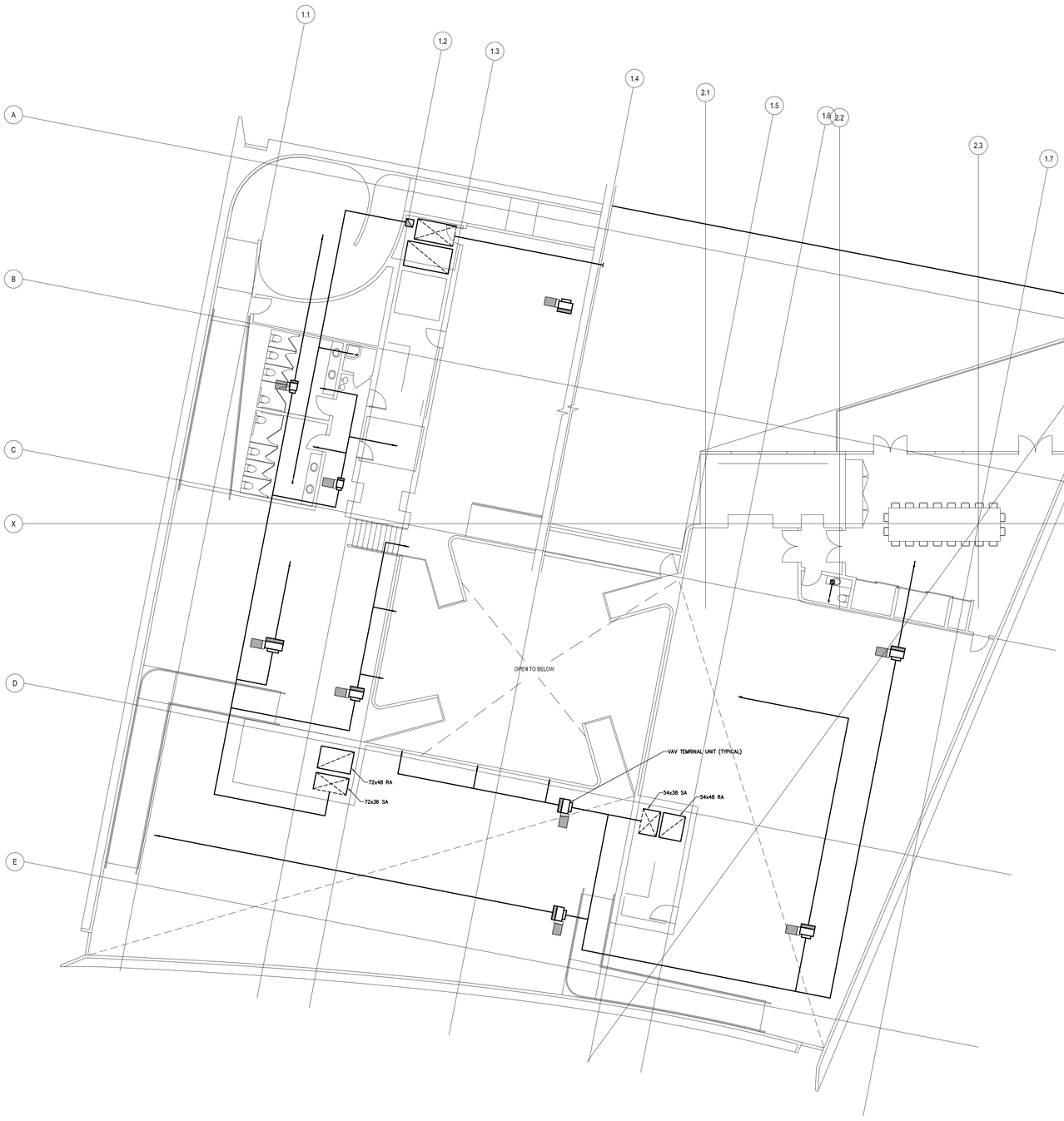

THIRD FLOOR HVAC PLAN

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

US OLYMPIC MUSEUM

OWNER:
United States Olympic Museum
P.O. Box 681
Colorado Spring, CO 80901
T: 719.358.6325

EXECUTIVE ARCHITECT:
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3198 Speer Boulevard
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T: 303.294.9448

DESIGNER:
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T: 212.260.7971

EXHIBIT DESIGN:
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T: 301.656.7575

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LAKEWOOD, COLORADO 80227
T: 303.988.4514

ELECTRICAL ENGINEER:
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3425 AUSTIN BLUFFS PKWY, 201
COLORADO SPRINGS, COLORADO 80918
T: 719.536.0036

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T: 212.896.3000

LIGHTING:
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THIRD FLOOR HVAC PLAN

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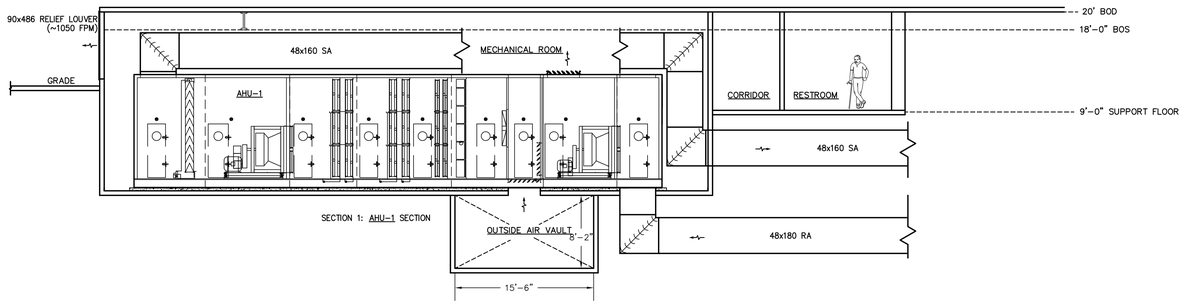
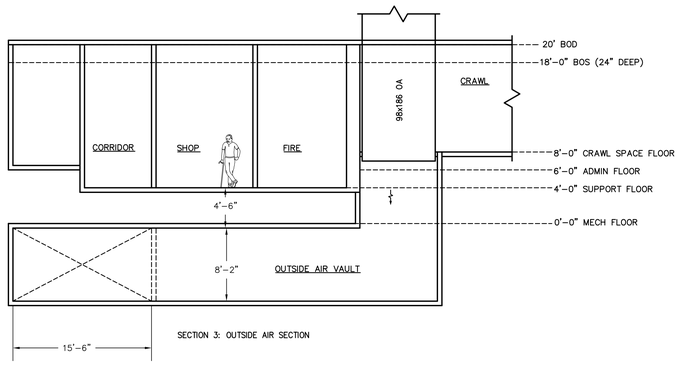
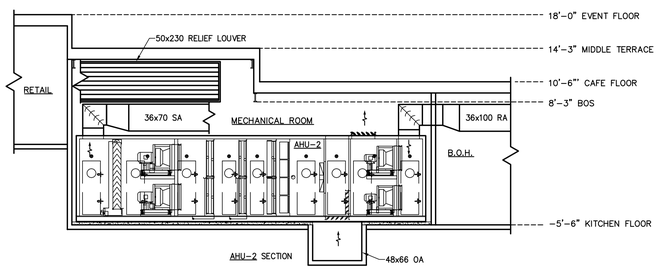


SECTION 1: AHU-1 SECTION



SECTION 3: OUTSIDE AIR SECTION



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HVAC SECTIONS

DRAWING NO.

M-300

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MAGNETIC BEARING WATER CHILLER SCHEDULE

PLAN CODE	MANUFACT. MODEL NO.	CAPACITY (TONS)	EFFIC. (KW/TON)	NPLV EFFIC. (KW/TON)	FULL LOAD SOUND (dBA)	CHILLED WATER (NOTE 1)								CONDENSER WATER (NOTE 2)						ELECTRICAL						REFRIGERANT		DIMENSIONS			OPER. WT (LBS)	VIBR. ISOL.	REMARKS
						EWT (°F)	LWT (°F)	DESIGN GPM	MIN. GPM	WPD (FT)	FOULING FACTOR	NO. OF PASSES	% P.G.	EWT (°F)	LWT (°F)	GPM	WPD (FT)	FOULING FACTOR	NO. OF PASSES	STARTER	VOLTS/ ø/HZ	KW	PRIMARY RLA	MCA	OPD	TYPE	CHARGE (LBS)	H	L	W			
CH-1	DAIKIN WMC400DC	370.0	0.467	0.306	83.5	55.00	45.00	888.0	325.0	18.3	0.00010	2	30%	75.0	84.2	1110.0	17.2	0.00025	2	INTEGRAL VFD	460/3/60	172.6	236.0	266.0	350.0	R-134a	1,109	7'-10"	14'-1"	4'-7"	13,500	NOTE: 4	NOTE: 3,5

NOTES:
1. INDICATED PRESSURE DROP IS NON-MARINE.
2. INDICATED PRESSURE DROP IS NON-MARINE.
3. PROVIDE CHILLER WITH UNIT MOUNTED STARTER.
4. MOUNT UNIT ON SPRING ISOLATORS.
5. NPLV VALUE MUST NOT BE EXCEEDED. HIGHER VALUE WILL NOT BE ALLOWED.

COOLING TOWER SCHEDULE

PLAN	MANUFACTURER & MODEL NUMBER	TYPE	TOTAL HEAT REJECTION (MBH)	EVAP. RATE (GPM)	SUMMER AMBIENT		SUMMER CONDENSER WATER				FAN						DIMENSIONS (NOTE: 2)				VIBRATION ISOLATION	SOUND (DBA)	REMARKS
					DB	WB	EWT	LWT	GPM	WPD	CFM	HP	RPM	DIA	NO. OF BLADES	V/ø/HZ	HEIGHT	LENGTH	WIDTH	WEIGHT			
CT-1	EVAPCO AT-112-312L	INDUCED DRAFT	5,500.0	8.8	95.0	63.0	85.0	75.0	1110.0	8.0'	80,000	15.0	–	–	–	460/3/60	14'-6"	12'-0"	11'-10"	14,240	NOTE:1	78	NOTE: 3,4,5

NOTES:
1. MOUNT TOWER ON STEEL FRAME WITH VIBRATION ISOLATION RAILS.
2. UNIT DIMENSIONS AND WEIGHTS INCLUDE ACCESSORIES.
3. COOLING TOWER FAN TO BE CONTROLLED BY MANUFACTURER SUPPLIED UNIT MOUNTED VARIABLE FREQUENCY DRIVE.
4. PROVIDE TOWER WITH ACCESS LADDER, HAND RAIL, STAINLESS STEEL HOT AND COLD WATER BASINS, ACCESS PLATFORM, AND MOTOR OUT OF AIR STREAM.
5. SOUND POWER AS MEASURED 5'-0" FROM AIR INLET.

AIR HANDLING UNIT SCHEDULE

PLAN CODE	MANUF. & MODEL NO.	AREA SERVED	FAN DATA (NOTE: 6)												COIL DATA														FILTER DATA					SIZE				
			FAN SERVICE, NO. & WHEEL DIA.			FAN CLASS	FAN RPM @ ALT.	CFM TOTAL	CFM OSA (MIN)	T.S.P. @ S.L. (IN. WC)	E.S.P. @ S.L. (IN. WC)	ELECTRICAL HP	ELECTRICAL V/ø/HZ	ELECTRICAL RPM	FAN VIBRATION ISOLATION	SERVICE	NO. OF ROWS/MAX FINS/INCH	CFM	FACE VEL. (FPM)	APD (IN W.C.)	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	MBH TOT.	MBH SENS.	EWT	LWT	GPM	% P.G.	WTR PD (FT.)	TYPE	TOTAL AREA (SQ FT.)	FACE VEL. (FPM)	INITIAL/ FINAL P.D. (SQ FT.)	% EFF.	NOTE: 8 L	NOTE: 8 W	NOTE: 8 H	WT. (LBS)	REMARKS
AHU-1	HAAKON	EXHIBITS	SUPPLY	4	44"	III	1217	160,000	40,000	7.10	3.00	75.0	480/3/60	1,150	2" SPRINGS	COOLING	6/10	160,000	508.0	0.61	82.0	60.6	49.0	48.5	4881.2	4701.6	44.0	54.0	1024.0	30.0	8.8	4" TA	144.0	1111.1	0.15/0.50	30%	59'-0"	31'-9"	12'-8"	103,770	NOTES: 1,2,
			RETURN	4	40"	II	1150	160,000	–	1.75	1.00	25.0	480/3/60	1,150	2" SPRINGS	HEATING	2/8	160,000	508.0	0.12	45.0	–	75.0	–	4274.2	4274.2	150.0	110.0	224.0	30.0	6.9	12" CART	144.0	1111.1	0.50/1.00	MERV 13					3,4,5,6,7,8
AHU-2	HAAKON	REAIL/CAFÉ	SUPPLY	4	24"	III	2109	40,000	15,000	7.10	3.00	20.0	480/3/60	1,750	2" SPRINGS	COOLING	8/10	40,000	448.0	0.61	82.0	60.6	49.0	48.5	1220.3	1175.4	44.0	54.0	256.0	30.0	8.8	4" TA	144.0	277.8	0.15/0.50	30%	37'-6"	13'-0"	9'-6"	28,100	NOTES: 1,2,
			RETURN	4	22"	II	1750	40,000	–	1.75	1.00	40.0	480/3/60	1,750	2" SPRINGS	HEATING	2/8	40,000	448.0	0.12	45.0	–	75.0	–	1068.5	1068.5	150.0	110.0	56.0	30.0	6.9	12" CART	144.0	277.8	0.50/1.00	MERV 13					3,4,5,6,8

NOTES:
1. VARIABLE VOLUME AIR HANDLING UNIT.
2. UNIT SHALL BE MOUNTED ON 4" CONCRETE HOUSEKEEPING PAD.
3. REFER TO PLAN FOR AIR HANDLING UNIT CONFIGURATION.
4. HOT WATER SYSTEM UTILIZES 30% GLYCOL.
5. REFER TO SPECIFICATIONS SECTION 15900 FOR AIR HANDLING UNIT SEQUENCE OF OPERATIONS.
6. PROVIDE UNIT WITH UNIT MOUNTED SUPPLY AND RETURN FAN VARIABLE FREQUENCY DRIVES.
7. ALL AIR HANDLING UNIT COMPONENTS SHALL BE CONNECTED TO EMERGENCY POWER.
8. PROVIDE UNIT WITH DIRECT DRIVE FANS.

COMPUTER ROOM AIR CONDITIONING SCHEDULE (WATER COOLED)

PLAN CODE	INDOOR EVAPORATOR UNIT: LOCATION	MANUFACT.	MODEL NO.	EVAPORATOR COIL: CFM	TOT. (MBH)	SENS. (MBH)	EAT DB	EAT WB	LAT DB	LAT WB	FACE AREA	ROWS	FACE VEL	COMPRESSOR (WATER COOLED): NO.	TOT. (MBH)	EWT (°F)	LWT (°F)	FLOW (GPM)	P.D. (FT)	SUPPLY FAN: CFM	ESP	RPM	H.P.	HUMIDIFIER: LBS/ HR	KW	HOT WATER REHEAT: MBH	EAT (°F)	LAT (°F)	FILTER EFF.	ELECTRICAL DATA: VOLT	ø	HZ	FLA	WSA	OPD	DIMENSIONS: L	W	H	OPER. WT.	REMARKS
CRAC-1	GALLERY ELEVATOR MACHINE	LIEBERT	–	5,000	91.1	79.3	72.0	60.7	55.0	54.0	–	4.0	–	1	91.1	95.0	85.0	19.6	–	5,000	0.5	–	–	–	–	93,450	58.0	79.0	30%	480	3	60	–	–	–	–	–	–	–	NOTES 1,2,3
CRAC-2	EVENT ELEVATOR MACHINE	LIEBERT	–	2,500	45.6	39.7	72.0	60.7	55.0	54.0	–	4.0	–	1	45.6	95.0	85.0	9.8	–	2,500	0.5	–	–	–	–	46,725	58.0	79.0	30%	480	3	60	–	–	–	–	–	–	–	NOTES 1,2,3
CRAC-3	SERVICE ELEVATOR MACHINE	LIEBERT	–	2,500	45.6	39.7	72.0	60.7	55.0	54.0	–	4.0	–	1	45.6	95.0	85.0	9.8	–	2,500	0.5	–	–	–	–	46,725	58.0	79.0	30%	480	3	60	–	–	–	–	–	–	–	NOTES 1,2,3
CRAC-4	KITCHEN ELEVATOR MACHINE	LIEBERT	–	2,500	45.6	39.7	72.0	60.7	55.0	54.0	–	4.0	–	1	45.6	95.0	85.0	9.8	–	2,500	0.5	–	–	–	–	46,725	58.0	79.0	30%	480	3	60	–	–	–	–	–	–	–	NOTES 1,2,3
CRAC-5	BASEMENT IT	LIEBERT	–	5,000	91.1	79.3	72.0	60.7	55.0	54.0	–	4.0	–	1	91.1	95.0	85.0	19.6	–	5,000	0.5	–	–	–	–	93,450	58.0	79.0	30%	480	3	60	–	–	–	–	–	–	–	NOTES 1,2,3
CRAC-6	THEATER CONROL	LIEBERT	–	3,000	54.7	47.6	72.0	60.7	55.0	54.0	–	4.0	–	1	54.7	95.0	85.0	11.8	–	3,000	0.5	–	–	–	–	56,070	58.0	79.0	30%	480	3	60	–	–	–	–	–	–	–	NOTES 1,2,3
CRAC-7	LEVEL 2 IT	LIEBERT	–	5,000	91.1	79.3	72.0	60.7	55.0	54.0	–	4.0	–	1	91.1	95.0	85.0	19.6	–	5,000	0.5	–	–	–	–	93,450	58.0	79.0	30%	480	3	60	–	–	–	–	–	–	–	NOTES 1,2,3
CRAC-8	LEVEL 3 IT	LIEBERT	–	5,000	91.1	79.3	72.0	60.7	55.0	54.0	–	4.0	–	1	91.1	95.0	85.0	19.6	–	5,000	0.5	–	–	–	–	93,450	58.0	79.0	30%	480	3	60	–	–	–	–	–	–	–	NOTES 1,2,3

NOTES:
1. COMPRESSOR SHALL BE COOLED BY STRAIGHT WATER.
2. UNIT TO INCLUDE ADVANCED MICROPROSSOR CONTROLLER, HOT WATER REHEAT, SMOKE DETECTOR, LIQUITECT SCROOL COMPRESSOR, NON-LOCKING ELECTRICAL DISCONNECTS AND 30% FILTERS.
3. UNIT CAPACITY BASED ON 72°F, 50% RH DESIGN ROOM TEMPERATURE, 5200' ALTITUDE.

PUMP SCHEDULE

PLAN CODE	MANUFACTURER & MODEL NO.	TYPE	SERVICE	IMP. DIA. (IN)	GPM	TDH (FT)	% EFF.	ELECTRICAL HP (BHP)	ELECTRICAL N.O.L. HP	ELECTRICAL VOLT/ ø/HZ	ELECTRICAL RPM	SIZE (IN) W	SIZE (IN) H	SIZE (IN) D	WT. (LBS)	REMARKS
P-1	B & G e-1510 3EB	END SUCTION	PRIMARY HEATING WATER	–	500	90.0	79.7	20.0 (14.5)	–	460/3/60	1,750	–	–	–	500	NOTE: 1,4,5
P-2	B & G e-1510 3EB	END SUCTION	PRIMARY HEATING WATER	–	500	90.0	79.7	20.0 (14.5)	–	460/3/60	1,750	–	–	–	500	NOTE: 1,4,5
P-3	B & G e-1510 5EB	END SUCTION	PRIMARY CHILLED WATER	–	890	90.0	84.6	30.0 (24.33)	–	460/3/60	1,750	–	–	–	725	NOTE: 2,4
P-4	B & G e-1510 5EB	END SUCTION	PRIMARY CHILLED WATER	–	890	90.0	84.6	30.0 (24.33)	–	460/3/60	1,750	–	–	–	725	NOTE: 2,4
P-5	B & G e-1510 5EB	END SUCTION	CONDENSER WATER	–	1,110	75.0	82.2	30.0 (26.03)	–	460/3/60	1,750	–	–	–	725	
P-6	B & G e-1510 5EB	END SUCTION	CONDENSER WATER	–	1,110	75.0	82.2	30.0 (26.03)	–	460/3/60	1,750	–	–	–	725	
P-7	B & G e-1510 4EB	END SUCTION	AHU-1 HEATING CIRC.	–	500.0	40.0	81.0	7.50 (6.24)	–	460/3/60	1,750	–	–	–	465	NOTE: 1,5
P-8	B & G 80 2x2x7	INLINE	AHU-2 HEATING CIRC.	–	75.0	40.0	–	2.0(1.33)	–	460/3/60	1,750	–	–	–	175	NOTE: 1
P-9	B & G 80 2x2x9	INLINE	SNOWMELT	–	55.0	60.0	–	3.0(1.64)	–	460/3/60	1,750	–	–	–	185	NOTE: 3,4
P-10	B & G 80 2x2x9	INLINE	SMOWMELT	–	55.0	60.0	–	3.0(1.64)	–	460/3/60	1,750	–	–	–	185	NOTE: 3,4
P-11	B & G e-1510 2BB	END SUCTION	CONDENSER LOOP	–	180.0	50.0	–	5.0(3.14)	–	460/3/60	1,750	–	–	–	250	NOTE: 4

NOTES:
1. HEATING WATER SYSTEM UTILIZES 30% GLYCOL.
2. CHILLED WATER SYSTEM UTILIZES 30% GLYCOL.
3. SNOWMELT WATER SYSTEM UTILIZES 50% GLYCOL.
4. PROVIDE PUMP WITH VFD
5. CONNECT TO EMERGENCY POWER.

HEAT EXCHANGER SCHEDULE

PLAN CODE	MANUFACTURER & MODEL NO.	SERVICE	WATER SIDE (COLD) (NOTE: 1) MBH	GPM	WPD	EWT	LWT	WATER SIDE (HOT) (NOTE: 1) MBH	GPM	WPD	EWT	LWT	DIMENSIONS H	L	W	NUMBER OF PLATES	TRANSFER AREA (SQ. FT.)	OPER. WEIGHT	REMARKS
HX-1	ALFA LAVAL	SNOWMELT	1,100.0	55.0	2.0	100.0	125.0	1,100.0	30.0	2.0	150.0	110.0	–	–	–	–	–	–	NOTE: 2
HX-2	ALFA LAVAL	CONDENSER LOOP	720.0	180.0	2.0	75.0	85.0	720.0	180.0	2.0	95.0	85.0	–	–	–	–	–	–	NOTE: 3

NOTES:
1. WATER PRESSURE DROP IN POUNDS PER INCH (PSI).
2. COLD WATER SIDE IS WATER WITH 50% GYLCOL. HOT WATER SIDE IS WATER WITH 30% GYLCOL.
3. COLD WATER SIDE IS CONDENSER WATER. HOT WATER SIDE IS STRAIGHT WATER.

CONDENSING BOILER SCHEDULE

PLAN CODE	MANUFACTURER & MODEL NO.	SERVICE	MBH HEATNG INPUT S.L.	MBH HEATNG OUTPUT (5,200')	WATER VOLUME (GALL)	ASME (PSIG) RATING	MAX OPER PSIG	VOLT/ ø/HZ	MCA	EWT (°F)	LWT (°F)	WATER FLOW (GPM)	% P.G.	WPD (FT)	SIZE (IN) L	SIZE (IN) W	SIZE (IN) H	OPER WT. (LBS)	REMARKS
B-1	AERCO BMK-3.0LN GWB	HEATING WATER	3,000	2,280	55.0	160.0	75.0	460/3/60	15.0	110.0	150.0	170.0	30	1.0	69"	28"	78"	2,600	NOTES: 1,2,3
B-2	AERCO BMK-3.0LN GWB	HEATING WATER	3,000	2,280	55.0	160.0	75.0	460/3/60	15.0	110.0	150.0	170.0	30	1.0	69"	28"	78"	2,600	NOTES: 1,2,3
B-3	AERCO BMK-3.0LN GWB	HEATING WATER	3,000	2,280	55.0	160.0	75.0	460/3/60	15.0	110.0	150.0	170.0	30	1.0	69"	28"	78"	2,600	NOTES: 1,2,3

NOTES:
1. PROVIDE 14" GAS REGULATOR.
2. PROVIDE NEUTRALIZATION TANK WITH LIMESTONE AND GAS PRV, PER MANUFACTURER'S RECOMMENDATIONS.
3. CONNECT TO EMERGENCY POWER.

FAN SCHEDULE

PLAN CODE	MANUFACTURER & MODEL NO.	TYPE	SERVICE	CFM @ S.L.	T.S.P. @ S.L.	RPM @ S.L.	MOTOR HP	MOTOR V/ø	MOTOR RPM	WT (LBS)	VIB. ISOL.	REMARKS
EF-1	GREENHECK 40-AFDW-21	DOUBLE WIDTH	SMOKE EXHAUST	42,000	0.75	689	15.0	480/3/60	1,725	1,500	NOTE: 1	NOTE: 1,2,3,4
EF-2	GREENHECK 40-AFDW-21	DOUBLE WIDTH	SMOKE EXHAUST	42,000	0.75	689	15.0	480/3/60	1,725	1,500	NOTE: 1	NOTE: 1,2,3,4
EF-3	GREENHECK 40-AFDW-21	DOUBLE WIDTH	SMOKE EXHAUST	42,000	0.75	689	15.0	480/3/60	1,725	1,500	NOTE: 1	NOTE: 1,2,3,4
KEF-1	GREENHECK CUE-180-VG	UPBLAST	KITCHEN EXHAUST	3,100	1.50	1202.00	3.0	480/3/60	1,725	165	NOTE: 1	NOTE: 5

NOTES:
1. REFER TO SPECIFICATIONS FOR VIBRATION AND SOUND ISOLATION REQUIREMENTS.
2. FAN SHALL BE CONNECTED TO EMERGENCY POWER.
3. FAN SHALL BE UTILIZED FOR BUILDING RELIEF.
4. PROVIDE FAN WITH FACTORY DISCONNECT.
5. PROVIDE FAN WITH FACTORY FABRICATED ROOF CURB.

Is re-heat needed?

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MAGNETIC BEARING WATER CHILLER SCHEDULE

PLAN CODE	MANUFACT. MODEL NO.	CAPACITY (TONS)	EFFIC. (KW/TON)	NPLV EFFIC. (KW/TON)	FULL LOAD SOUND (dBA)	CHILLED WATER (NOTE 1)								CONDENSER WATER (NOTE 2)						ELECTRICAL						REFRIGERANT		DIMENSIONS			OPER.		
						EWT (°F)	LWT (°F)	DESIGN GPM	MIN. GPM	WPD (FT)	FOULING FACTOR	NO. OF PASSES	% P.G.	EWT (°F)	LWT (°F)	GPM	WPD (FT)	FOULING FACTOR	NO. OF PASSES	STARTER	VOLTS/ ø/HZ	KW	PRIMARY RLA	MCA	OPD	TYPE	CHARGE (LBS)	H	L	W	WT (LBS)	VIBR. ISOL.	REMARKS
CH-1	DAIKIN WMC400DC	370.0	0.467	0.306	83.5	55.00	45.00	888.0	325.0	18.3	0.00010	2	30%	75.0	84.2	1110.0	17.2	0.00025	2	INTEGRAL VFD	460/3/60	172.6	236.0	266.0	350.0	R-134a	1,109	7'-10"	14'-1"	4'-7"	13,500	NOTE: 4	NOTE: 3,5

NOTES:
1. INDICATED PRESSURE DROP IS NON-MARINE.
2. INDICATED PRESSURE DROP IS NON-MARINE.
3. PROVIDE CHILLER WITH UNIT MOUNTED STARTER.
4. MOUNT UNIT ON SPRING ISOLATORS.
5. NPLV VALUE MUST NOT BE EXCEEDED. HIGHER VALUE WILL NOT BE ALLOWED.

COOLING TOWER SCHEDULE

PLAN	MANUFACTURER & MODEL NUMBER	TYPE	TOTAL HEAT REJECTION (MBH)	EVAP. RATE (GPM)	SUMMER AMBIENT		SUMMER CONDENSER WATER				FAN						DIMENSIONS (NOTE: 2)				VIBRATION ISOLATION	SOUND (DBA)	REMARKS
					DB	WB	EWT	LWT	GPM	WPD	CFM	HP	RPM	DIA	NO. OF BLADES	V/ø/HZ	HEIGHT	LENGTH	WIDTH	WEIGHT			
CT-1	EVAPCO AT-112-312L	INDUCED DRAFT	5,500.0	8.8	95.0	63.0	85.0	75.0	1110.0	8.0'	80,000	15.0	–	–	–	460/3/60	14'-6"	12'-0"	11'-10"	14,240	NOTE:1	78	NOTE: 3,4,5

NOTES:
1. MOUNT TOWER ON STEEL FRAME WITH VIBRATION ISOLATION RAILS.
2. UNIT DIMENSIONS AND WEIGHTS INCLUDE ACCESSORIES.
3. COOLING TOWER FAN TO BE CONTROLLED BY MANUFACTURER SUPPLIED UNIT MOUNTED VARIABLE FREQUENCY DRIVE.
4. PROVIDE TOWER WITH ACCESS LADDER, HAND RAIL, STAINLESS STEEL HOT AND COLD WATER BASINS, ACCESS PLATFORM, AND MOTOR OUT OF AIR STREAM.
5. SOUND POWER AS MEASURED 5'-0" FROM AIR INLET.

HEAT EXCHANGER SCHEDULE (PLATE AND FRAME)

PLAN CODE	MANUFACTURER & MODEL NO.	SERVICE	WATER SIDE (COLD) (NOTE: 1)					WATER SIDE (HOT) (NOTE: 1)					DIMENSIONS			NUMBER OF PLATES	TRANSFER AREA (SQ. FT.)	OPER. WEIGHT	REMARKS
			MBH	GPM	WPD	EWT	LWT	MBH	GPM	WPD	EWT	LWT	H	L	W				
HX-1	ALFA LAVAL	SNOWMELT	1,100.0	88.0	–	100.0	125.0	1,100.0	55.0	–	150.0	110.0	–	–	–	–	–	–	NOTE: 2
HX-2	ALFA LAVAL	CONDENSER LOOP	4,500.0	900.0	–	70.0	80.0	4,500.0	900.0	–	83.0	73.0	–	–	–	–	–	–	NOTE: 3

NOTES:
1. WATER PRESSURE DROP IN POUNDS PER INCH (PSI).
2. COLD WATER SIDE IS WATER WITH 50% GYLCOL. HOT WATER SIDE IS WATER WITH 30% GYLCOL.
3. COLD WATER SIDE IS CONDENSER WATER. HOT WATER SIDE IS STRAIGHT WATER.

CONDENSING BOILER SCHEDULE

PLAN CODE	MANUFACTURER & MODEL NO.	SERVICE	MBH HEATNG		WATER VOLUME (GALL)	ASME (PSIG) RATING	MAX OPER PSIG	VOLT/ ø/HZ	MCA	EWT (°F)	LWT (°F)	WATER FLOW (GPM)	% P.G.	WPD (FT)	SIZE (IN)			OPER WT. (LBS)	REMARKS
			INPUT S.L.	OUTPUT (5,200')											L	W	H		
B-1	AERCO BMK-3.0LN GWB	HEATING WATER	3,000	2,280	55.0	160.0	75.0	460/3/60	15.0	110.0	150.0	170.0	30	1.0	69"	28"	78"	2,600	NOTES: 1,2,3
B-2	AERCO BMK-3.0LN GWB	HEATING WATER	3,000	2,280	55.0	160.0	75.0	460/3/60	15.0	110.0	150.0	170.0	30	1.0	69"	28"	78"	2,600	NOTES: 1,2,3
B-3	AERCO BMK-3.0LN GWB	HEATING WATER	3,000	2,280	55.0	160.0	75.0	460/3/60	15.0	110.0	150.0	170.0	30	1.0	69"	28"	78"	2,600	NOTES: 1,2,3

NOTES:
1. PROVIDE 14" GAS REGULATOR.
2. PROVIDE NEUTRALIZATION TANK WITH LIMESTONE AND GAS PRV, PER MANUFACTURER'S RECOMMENDATIONS.
3. CONNECT TO EMERGENCY POWER.

PUMP SCHEDULE

PLAN CODE	MANUFACTURER & MODEL NO.	TYPE	SERVICE	IMP. DIA. (IN)	GPM	TDH (FT)	% EFF.	ELECTRICAL				SIZE (IN)			WT. (LBS)	REMARKS
								HP (BHP)	N.O.L. HP	VOLT/ ø/HZ	RPM	W	H	D		
P-1	B & G e-1510 3EB	END SUCTION	PRIMARY HEATING WATER	–	500	90.0	79.7	20.0 (14.5)	–	460/3/60	1,750	–	–	–	500	NOTE: 1,4,5
P-2	B & G e-1510 3EB	END SUCTION	PRIMARY HEATING WATER	–	500	90.0	79.7	20.0 (14.5)	–	460/3/60	1,750	–	–	–	500	NOTE: 1,4,5
P-3	B & G e-1510 5EB	END SUCTION	PRIMARY CHILLED WATER	–	890	90.0	84.6	30.0 (24.33)	–	460/3/60	1,750	–	–	–	725	NOTE: 2,4
P-4	B & G e-1510 5EB	END SUCTION	PRIMARY CHILLED WATER	–	890	90.0	84.6	30.0 (24.33)	–	460/3/60	1,750	–	–	–	725	NOTE: 2,4
P-5	B & G e-1510 5EB	END SUCTION	CONDENSER WATER	–	1,110	75.0	82.2	30.0 (26.03)	–	460/3/60	1,750	–	–	–	725	
P-6	B & G e-1510 5EB	END SUCTION	CONDENSER WATER	–	1,110	75.0	82.2	30.0 (26.03)	–	460/3/60	1,750	–	–	–	725	
P-7	B & G e-1510 4EB	END SUCTION	AHU-1 HEATING CIRC.	–	500.0	40.0	81.0	7.50 (6.24)	–	460/3/60	1,750	–	–	–	465	NOTE: 1,5
P-8	B & G 80 2x2x7	INLINE	AHU-2 HEATING CIRC.	–	75.0	40.0	–	2.0(1.33)	–	460/3/60	1,750	–	–	–	175	NOTE: 1
P-9	B & G 80 2x2x9	INLINE	SNOWMELT	–	55.0	60.0	–	3.0(1.64)	–	460/3/60	1,750	–	–	–	185	NOTE: 3,4
P-10	B & G 80 2x2x9	INLINE	SMOWMELT	–	55.0	60.0	–	3.0(1.64)	–	460/3/60	1,750	–	–	–	185	NOTE: 3,4
P-11	B & G e-1510 5EB	END SUCTION	CONDENSER LOOP	–	900.0	50.0	84.6	30.0 (24.33)	–	460/3/60	1,750	–	–	–	250	NOTE: 4

NOTES:
1. HEATING WATER SYSTEM UTILIZES 30% GLYCOL.
2. CHILLED WATER SYSTEM UTILIZES 30% GLYCOL.
3. SNOWMELT WATER SYSTEM UTILIZES 50% GLYCOL.
4. PROVIDE PUMP WITH VFD
5. CONNECT TO EMERGENCY POWER.

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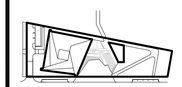

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ABBREVIATIONS

A,AMP	AMPERE
AC	ABOVE COUNTER OR ALTERNATING CURRENT
ADA	AMERICANS WITH DISABILITIES ACT
AF	AMPERE FUSE/FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
ALT	ALTERNATE
ANN	ANNUNCIATOR
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AS	AMPERE SWITCH
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
BFC	BELOW FINISHED CEILING
BFG	BELOW FINISHED GRADE
BKR	BREAKER
BLDG	BUILDING
C	CONDUIT
CATV	COMMUNITY ANTENNA TV (CABLE TV)
CAB	CABINET
CAM	CAMERA
CB	CIRCUIT BREAKER
CBM	CERTIFIED BALLAST MANUFACTURERS
CCTV	CLOSED CIRCUIT TELEVISION
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CFL	COMPACT FLUORESCENT LAMP
CKT	CIRCUIT
CLG	CEILING
CO	CONDUIT ONLY
COAX	COAXIAL
COMB	COMBINATION
COND	CONDUCTOR
CONT	CONTRACTOR OR CONTINUATION
CT	CURRENT TRANSFORMER
CU	COPPER
dB	DECIBEL
DB	DIRECT BURIAL
DC	DIRECT CURRENT
DEMARC	DEMARCATION
DISC	DISCONNECT
DIST	DISTRIBUTION
DL	DAMP LABEL
DVR	DIGITAL VIDEO RECORDER
DWG	DRAWING
E	EXISTING TO REMAIN
EA	EACH
EC	ELECTRICAL CONTRACTOR OR EMPTY CONDUIT
EGC	EQUIPMENT GROUNDING CONDUCTOR
EH	ELECTRICALLY HELD
ELEC	ELECTRIC OR ELECTRICAL
ELEV	ELEVATOR
EM	EMERGENCY
EMT	ELECTRIC METALLIC TUBING
EOL	FIRE ALARM END OF LINE RESISTOR
EPO	EMERGENCY POWER OFF
EQUIP	EQUIPMENT
ER	EXISTING TO BE RELOCATED
EWC	ELECTRIC WATER COOLER
F	FUSE
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FBO	FURNISHED BY OTHERS
FC	FOOTCANDLES
FDR	FEEDER
FLA	FULL LOAD AMPERES
FLEX	FLEXIBLE CONDUIT
FLR	FLOOR
FLUOR	FLUORESCENT
FO	FIBER OPTIC
FATC	FIRE ALARM TERMINAL CABINET
FU	FUSE OR FUSED
G,GND	GROUND
GA	GUAGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GEN	GENERATOR
GFI,GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GRC	GALVANIZED RIGID CONDUIT
HC	HORIZONTAL CROSS CONNECT
HD	HEAVY DUTY
HH	HAND HOLE
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HPF	HIGH POWER FACTOR
HPS	HIGH PRESSURE SODIUM
HZ	HERTZ (CYCLES/SECOND)
IC	INTERCOM OR INTERMEDIATE CROSS-CONNECT
ID	INSIDE DIAMETER
IDF	INTERMEDIATE DISTRIBUTION FRAME
IG	ISOLATED GROUND
IMC	INTERMEDIATE GRADE METALLIC CONDUIT
INCAND	INCANDESCENT
J-BOX	JUNCTION BOX
KCMIL	THOUSAND OF CIRCULAR MILLS
KV	KILOVOLT
KVA	KILOVOLT-AMPERE
KW	KILOWATT
KWH	KILOWATT-HOUR
LAN	LOCAL AREA NETWORK
LCL	LONG CONTINUOUS LOAD
LED	LIGHT EMITTING DIODE
LFC	LIQUIDTIGHT FLEXIBLE CONDUIT
LML	LARGEST MOTOR LOAD
LPF	LOW POWER FACTOR
LTG	LIGHTING
LV	LOW VOLTAGE

ABBREVIATIONS

MAG	MAGNETIC
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR OR MAIN CROSS CONNECT
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTOR
MDF	MAIN DISTRIBUTION FRAME
MDP	MAIN DISTRIBUTION PANEL
MECH	MECHANICAL
MFR	MANUFACTURER
MG	MOTOR GENERATOR
MH	MANHOLE OR METAL HALIDE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MMFO	MULTIMODE FIBER OPTIC
MPOE	MAIN POINT OF ENTRY
MSB	MAIN SWITCHBOARD
MTB	MAIN TERMINAL BOARD
MTD	MOUNTED
MTG	MOUNTING HEIGHT
MTR	MOTOR
MV	MEDIUM VOLTAGE
N	NEUTRAL
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NF	NON-FUSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
OSP	OUTSIDE PLANT
P	POLE
PA	PUBLIC ADDRESS
PB	PUSH BUTTON OR PULL BOX
PBX	PRIVATE BRANCH EXCHANGE
PE	PHOTOELECTRIC
PF	POWER FACTOR
PH	PHASE
PNL	PANEL
PR	PAIRS
PRI	PRIMARY
PROX	PROXIMITY
PT	POTENTIAL TRANSFORMER
PTZ	PAN, TILT, ZOOM CAMERA
PVC	POLYVINYL CHLORIDE
PWR	POWER
QR	QUARTZ RESTRIKE
R	EXISTING TO BE REMOVED
RE	RELOCATED EXISTING
REC	RECEPTACLE
REQ'D	REQUIRED
RGS	RIGID GALVANIZED STEEL
RM	ROOM
RMC	RIGID METALLIC CONDUIT
RNC	RIGID NON-METALLIC CONDUIT
RPM	REVOLUTIONS PER MINUTE
SCA	SHORT-CIRCUIT AMPERES
SCCR	SHORT-CIRCUIT CURRENT RATING
SCP	SECURITY CONTROL PANEL
SEC	SECONDARY OR SECOND
SECT	SECTION
SHT	SHEET
SMFO	SINGLE-MODE FIBER OPTIC
SP	SERVICE PROVIDER
SPD	SURGE PROTECTION DEVICE
SPDT	SINGLE POLE, DOUBLE THROW
SPST	SINGLE POLE, SINGLE THROW
ST	SHUNT TRIP
STP	SHIELDED TWISTED PAIR
STD	STANDARD
SYS	SYSTEM
SW	SWITCH
SWBD	SWITCHBOARD
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TC	TIME CLOCK
TEL	TELEPHONE
TELCO	TELEPHONE COMPANY
TELCOM	TELECOMMUNICATIONS
TEMP	TEMPORARY OR TEMPERATURE
TGB	TELECOMMUNICATIONS GROUND BUS
TMGB	MAIN TELECOMMUNICATIONS GROUND BUS
TO	THERMAL OVERLOAD
TR	TAMPER RESISTANT OR TELECOMMUNICATIONS ROOM
TS	TIME SWITCH
TTB	TELEPHONE TERMINAL BOARD
TTC	TELEPHONE TERMINAL CABINET OR CLOSET
TV	TELEVISION
TYP	TYPICAL
UC	UNDER COUNTER
UG	UNDER GROUND
UL	UNDERWRITER LABORATORIES
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTP	UNSHIELDED TWISTED PAIR
V	VOLT
VA	VOLT-AMPERE
VAR	REACTIVE VOLT-AMPERES
VFD	VARIABLE FREQUENCY DRIVE
VP	VAPOR PROOF
W	WATT
W/	WITH
W/O	WITHOUT
WCR	WITHSTAND CURRENT RATING
WH	WATT HOUR
WHM	WATT HOUR METER
WP	WEATHERPROOF
WPL	WEATHERPROOF LOCKABLE ENCLOSURE
WT	WATERTIGHT
XFMR	TRANSFORMER
XP	EXPLOSION PROOF

ONE-LINE SYMBOLS

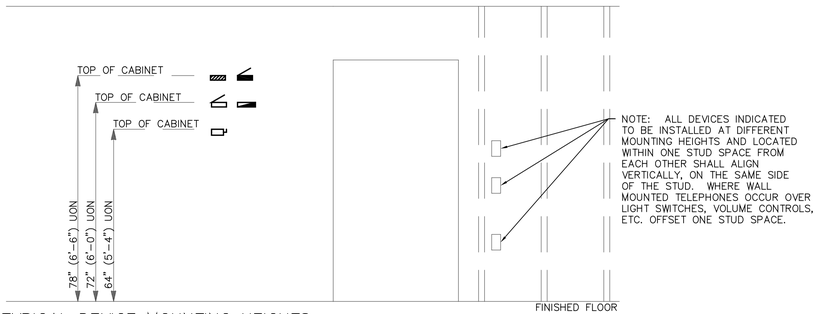
SYMBOL	DESCRIPTION
XXXX	BRANCH CIRCUIT PANELBOARD
XXXX	BRANCH CIRCUIT PANELBOARD W/ MAIN CIRCUIT BREAKER
M	PROVISION FOR METER
	GROUND
HP	MOTOR
X	FEEDER IDENTIFIER SYMBOL
	NON-FUSED DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH W/ AMP FUSE AND AMP FRAME
	CIRCUIT BREAKER DISCONNECT
	COMBINATION MAGNETIC STARTER AND CIRCUIT BREAKER DISCONNECT
	MAGNETIC MOTOR STARTER
	CONTACTOR
XXXA 3P	MOLDED CASE CIRCUIT BREAKER
G	MOLDED CASE CIRCUIT BREAKER WITH GROUND FAULT
	SHUNT TRIP CIRCUIT BREAKER
	NON-FUSED SWITCH
	FUSED SWITCH
G	FUSED SWITCH W/ GROUND FAULT AND SHUNT TRIP
	ENGINE GENERATOR SET W/ NEUTRAL GROUND, ENGINE STARTING CONTACTS AND MAIN CIRCUIT BREAKER
	NON-FUSED DISCONNECT SWITCH IN SEPERATE ENCLOSURE
	MOLDED CASE CIRCUIT BREAKER IN SEPERATE ENCLOSURE
VFD	VARIABLE FREQUENCY DRIVE
	AUTOMATIC TRANSFER SWITCH
	ISOLATION TRANSFORMER
	TRANSFORMER (DELTA TO GROUND WYE)

POWER DEVICES

SYMBOL	DESCRIPTION
	GROUNDING BUS BAR
	NON-FUSED DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	ENCLOSED CIRCUIT BREAKER
	PANEL BOARD
	LIGHTING CONTROL PANEL / CONTROL PANEL
T	TRANSFORMER
	PAD MOUNTED TRANSFORMER

ANNOTATION LEGEND

SYMBOL	DESCRIPTION
1	KEYED NOTE TAG
XXXX	EQUIPMENT NAME TAG
AA-1,3,5	IDENTIFIES SINGLE OR MULTIWIRE BRANCH CIRCUITS (THREE CIRCUITS SHOWN) IN HOMERUN TO PANEL AA.



TYPICAL DEVICE MOUNTING HEIGHTS

SCALE: NONE

NOTES:
1. HEIGHTS SHOWN ARE TYPICAL TO CENTERLINE OF BOX UNLESS OTHERWISE NOTED.
2. MOUNTING HEIGHTS SHOWN ON ARCHITECTURAL ELEVATIONS SHALL GOVERN OVER THOSE SHOWN ABOVE.
3. CONTRACTOR SHALL ENSURE THAT MOUNTING HEIGHTS COMPLY WITH CURRENT ADA REQUIREMENTS.
4. WHEREVER DEVICES ARE INDICATED TO BE ABOVE DOORS, DEVICE SHALL BE CENTERED BETWEEN TOP OF DOOR TRIM AND CEILING LINE.
5. ALL ABOVE COUNTER (DESIGNATED BY "AC") DEVICES SHALL BE MOUNTED 8" ABOVE COUNTER TO OR A MAXIMUM HEIGHT OF 44" (3'-8") TO TOP OF DEVICE. VERIFY HEIGHTS WITH ARCHITECT.

GENERAL ELECTRICAL REQUIREMENTS

1. ALL EXPOSED RACEWAYS ARE TO BE INSTALLED PARALLEL OR PERPENDICULAR TO WALLS OR STRUCTURAL MEMBERS SUCH THAT THEY FOLLOW STRUCTURAL SURFACE CONTOURS AND SHALL BE INSTALLED SUCH THAT THEY DO NOT OBSTRUCT PASSAGEWAYS OR ACCESS TO EQUIPMENT. MULTIPLE RACEWAYS SHOULD BE INSTALLED GROUPED TOGETHER. THE LOCATION OF PUBLICLY VISIBLE RACEWAYS SHALL BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION. (EXTRA TIME SHOULD BE ALLOWED FOR THIS REVIEW AND APPROVAL.)
2. THE DISCONNECTING MEANS FOR ALL MECHANICAL EQUIPMENT SHALL BE ACCESSIBLE AND HAVE THE CLEARANCE IN FRONT AS REQUIRED BY NEC AMENDMENTS.
3. ALL CEILING ATTACHED OBJECTS AND FLOOR ATTACHED EQUIPMENT INCLUDING BUT NOT LIMITED TO PENDANT LIGHTING FIXTURES, CHANDELIERS, GENERAL LIGHTING, MULTIPLE RACEWAYS, GENERATORS, TRANSFORMERS, ELECTRICAL SWITCHGEAR, AND SWITCHBOARDS SHALL BE INSTALLED IN ACCORDANCE WITH SUPPORTING OBJECTS FOR SEISMIC ZONE AS REQUIRED BY STATE AND LOCAL CODES AND PER STRUCTURAL ENGINEERS RECOMMENDATIONS.
4. ALL SWITCHGEAR, SWITCHBOARDS AND TRANSFORMERS SHALL HAVE A 4 INCH HOUSE KEEPING PAD. UNDER NO CONDITION SHALL THE HIGHEST SWITCH OR BREAKER EXCEED 6'-6" AFF.
5. DATA GIVEN ON THE DRAWINGS IS AS EXACT AS COULD BE SECURED. ABSOLUTE ACCURACY IS NOT GUARANTEED AND THE CONTRACTOR SHALL OBTAIN AND VERIFY EXACT LOCATIONS, MEASUREMENTS, LEVELS, SPACE REQUIREMENTS, POTENTIAL CONFLICTS WITH OTHER TRADES, ETC. AT THE SITE AND SHALL SATISFACTORILY ADAPT HIS WORK TO ACTUAL CONDITIONS AT THE BUILDINGS. THE DRAWINGS ARE DIAGRAMMATICAL IN NATURE AND SHALL NOT BE SCALED. HOWEVER THIS DOES NOT RELIEVE ANY SUB-CONTRACTOR FROM COORDINATING HIS WORK WITH ALL OTHER TRADES AND FROM ADJUSTING HIS WORK AS REQUIRED BY THE ACTUAL CONDITIONS OF THE PROJECT. THE CONTRACTOR SHALL VISIT THE SITE BEFORE SUBMITTING COSTS TO BECOME THOROUGHLY FAMILIAR WITH THE ACTUAL CONDITIONS OF THE PROJECT.
6. COORDINATE AND ADJUST ALL WORK BETWEEN TRADES AND EXISTING CONDITIONS IN ORDER TO ACCOMPLISH A NEAT, INTEGRATED AND EFFICIENT INSTALLATION WHICH INCLUDE BUT ARE NOT LIMITED TO:
   a. EXAMINE THE CONTRACT DOCUMENTS OF ALL TRADES (IE. THE ARCHITECTURAL REFLECTED CEILING PLAN, MECHANICAL HVAC DRAWINGS, ELECTRICAL LIGHTING PLAN, FIRE PROTECTION PLAN, ETC.).
   b. COORDINATE NECESSARY EQUIPMENT, FIXTURES, ETC. SO THAT THE FINAL INSTALLATION IS COMPATIBLE WITH THE MATERIALS AND EQUIPMENT OF THE OTHER TRADES.
   c. THIS CONTRACTOR SHALL ASSIST THE MECHANICAL CONTRACTOR IN PREPARING SHOP DRAWINGS FOR COORDINATING INSTALLATION OF ALL WORK (IE. LOCATING ALL LIGHTING FIXTURES IN CEILING WITH CEILING CLEARANCES, RACEWAYS, CABLE TRAY, PIPING, EQUIPMENT FOR CLEARANCE THROUGHOUT).
   d. THE ELECTRICAL DRAWINGS INDICATE THE ELECTRICAL REQUIREMENTS FOR A SIGNIFICANT PORTION OF THE MECHANICAL AND PLUMBING SYSTEMS. ADDITIONAL MECHANICAL AND PLUMBING EQUIPMENT IS INDICATED ON THE MECHANICAL AND PLUMBING DRAWINGS. REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. PROVIDE COMPLETE WIRING AND FUSIBLE DISCONNECTING MEANS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT UNLESS OTHERWISE NOTED.
7. DEFINITIONS:
   a. "FURNISH" MEANS TO "SUPPLY" AND USUALLY REFERS TO AN ITEM OF EQUIPMENT.
   b. "INSTALL" MEANS TO "SET IN PLACE, CONNECT AND PLACE IN FULL OPERATIONAL ORDER".
   c. "PROVIDE" MEANS TO "FURNISH AND INSTALL".
   d. "EQUIVALENT" MEANS "MEETS THE SPECIFICATIONS OF THE REFERENCE PRODUCT OR ITEM IN ALL SIGNIFICANT ASPECTS." SIGNIFICANT ASPECTS SHALL BE DETERMINED BY THE ENGINEER.
   e. "WORK BY OTHER(S) (CONTRACTOR): "RE:_____DIVISION", AND SIMILAR EXPRESSIONS MEANS WORK TO BE PERFORMED UNDER THE CONTRACT DOCUMENTS, BUT NOT NECESSARILY UNDER THE DIVISION OR SECTION OF THE WORK ON WHICH THE NOTE APPEARS. IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO COORDINATE THE WORK OF THE CONTRACT BETWEEN HIS/HER SUPPLIERS, SUBCONTRACTORS, AND EMPLOYEES. IF CLARIFICATION IS REQUIRED, CONSULT ARCHITECT BEFORE START OF WORK.
8. "FIRESTOPPING" REQUIREMENT. ALL PENETRATIONS THROUGH RATED WALLS AND FLOORS SHALL BE SEALED WITH MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASSES WHEN SUBJECTED TO THE REQUIREMENTS OF THE TEST STANDARD SPECIFIC FOR FIRE STOPS ASTM-E-814. ALL PENETRATIONS SHALL MEET F AND T RATINGS AS REQUIRED BY THE BUILDING CODE.
9. ALL ELECTRICAL CONDUIT CROSSING BUILDING SEISMIC SEPARATION OR EXPANSION JOINTS SHALL BE PROVIDE WITH APPROVED FLEXIBLE CONNECTORS. REFER TO THE ARCHITECTURAL PLANS FOR ALL EXPANSION JOINT LOCATIONS.
10. WHERE DISCONNECTS ARE INDICATED ON DRAWINGS CONTRACTOR SHALL PROVIDE FINAL CONNECTION TO EQUIPMENT BEING SERVED BY DISCONNECT.

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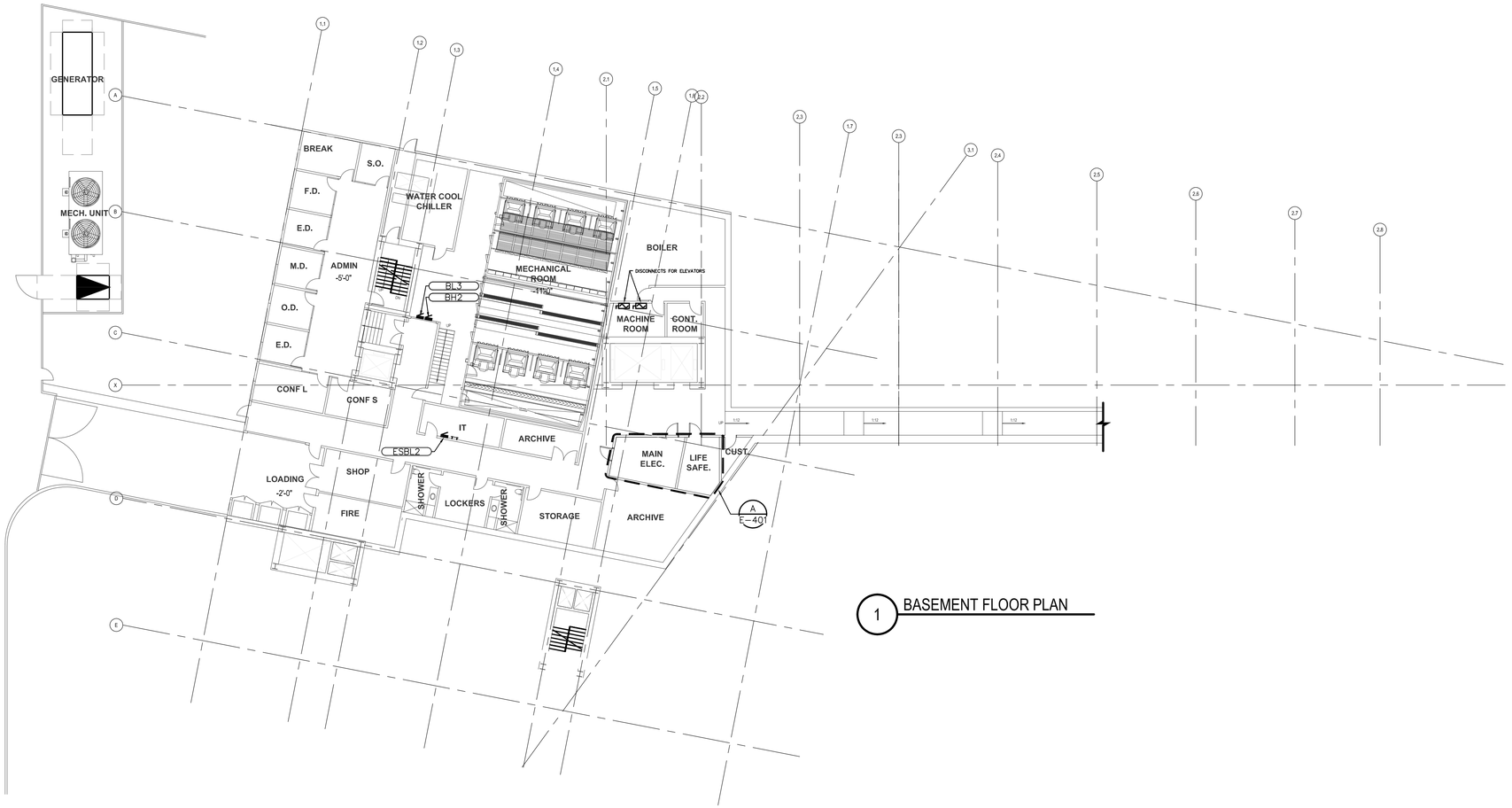

1 BASEMENT FLOOR PLAN

GENERAL NOTES:

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2. ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR, PARALLEL, AND TIGHT TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT ROUTING SHALL BE COORDINATED WITH ENGINEER AND ARCHITECT PRIOR TO INSTALLATION. NO ADDITIONAL COST TO OWNER WILL BE ALLOWED FOR RELOCATING CONDUIT DUE TO THE LACK OF COORDINATION WITH ARCHITECT.
3. ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS NOTED OTHERWISE. ALL VERTICAL SECTIONS OF CONDUIT SHALL BE CONCEALED. CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AND BACK BOXES IN CONCRETE, MASONRY AND GYP. WALLS.

KEY NOTES:

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LEVEL -1 PLAN (BASEMENT)
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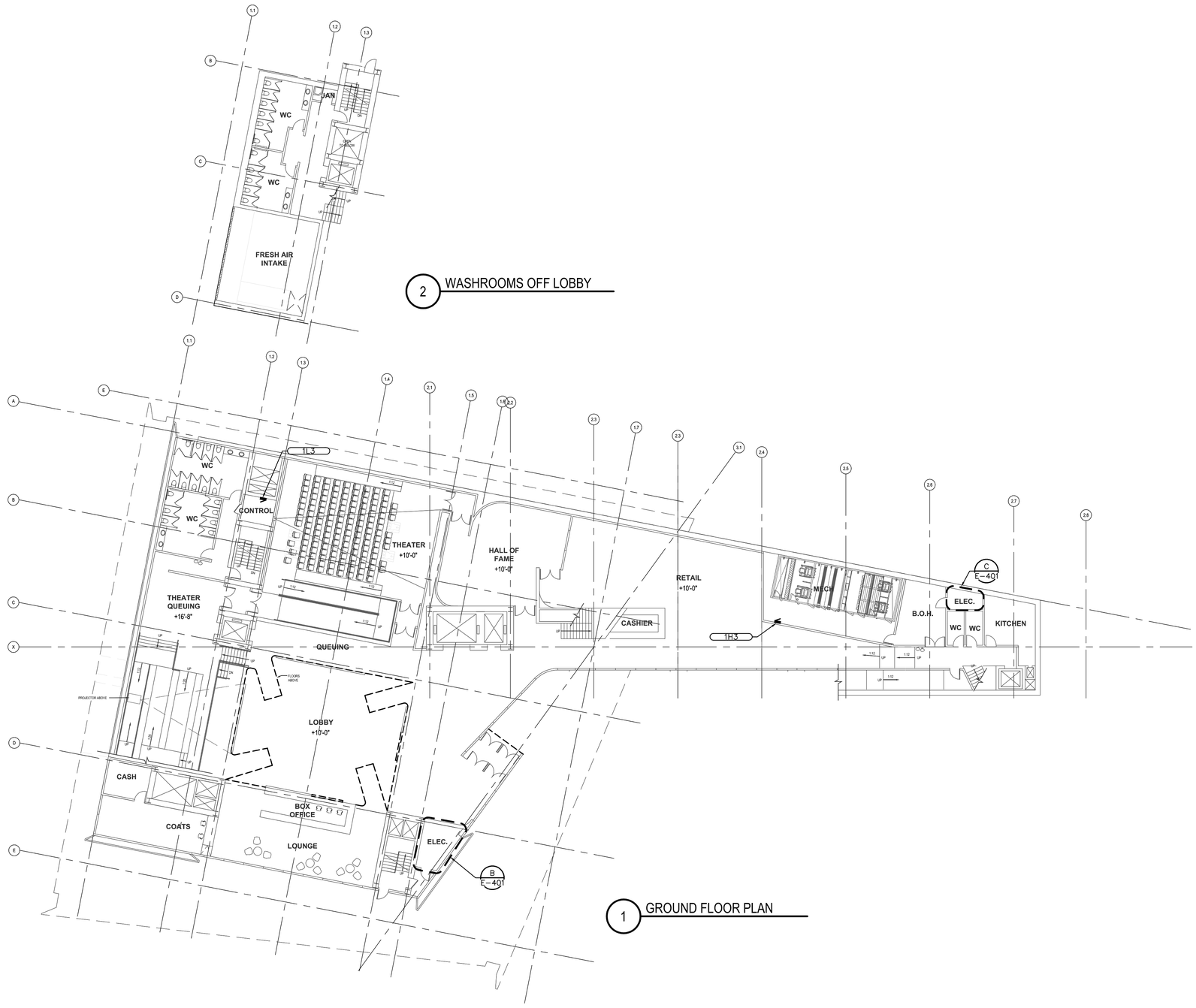

2 WASHROOMS OFF LOBBY

1 GROUND FLOOR PLAN

GENERAL NOTES:

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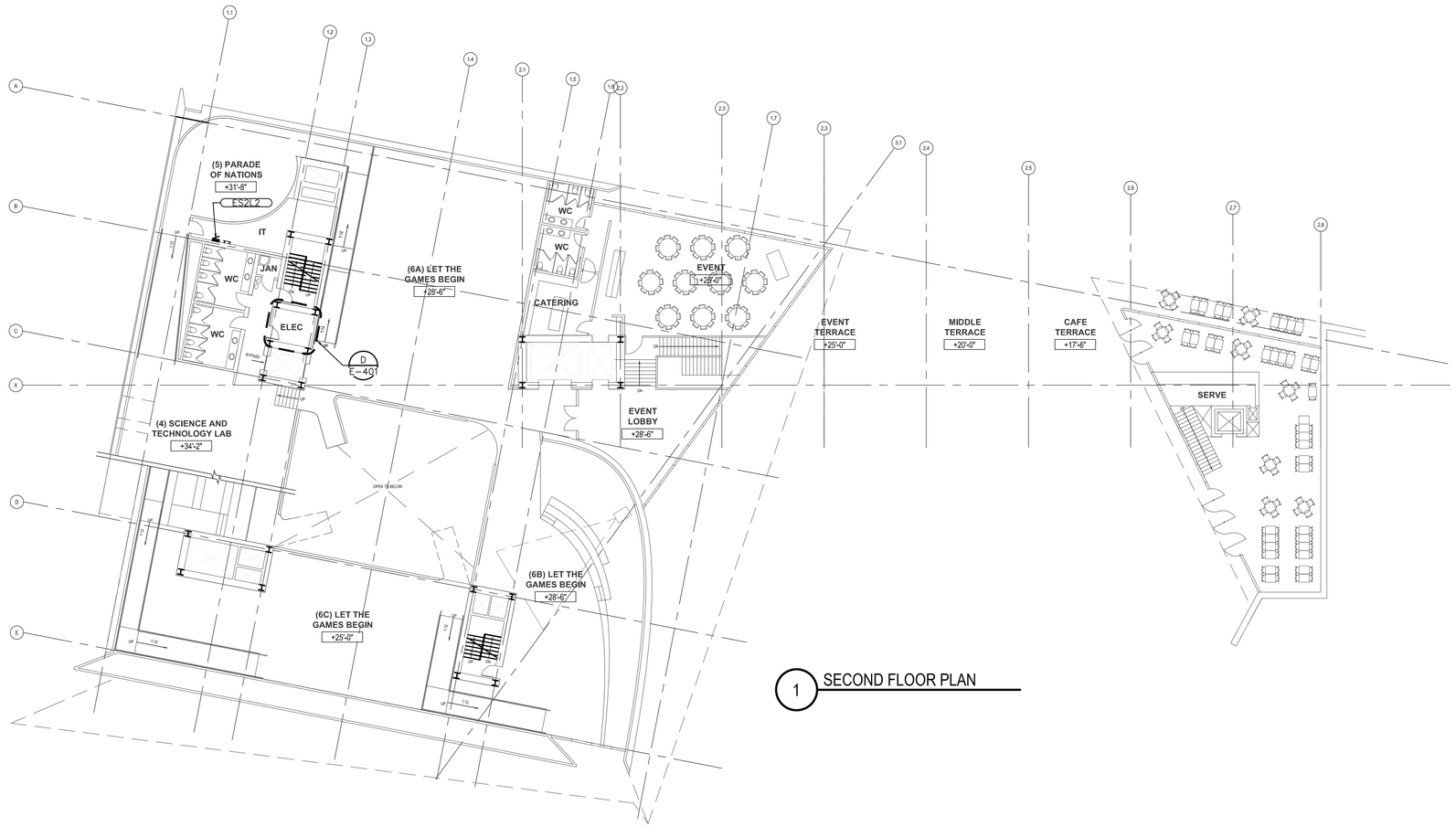

1 SECOND FLOOR PLAN

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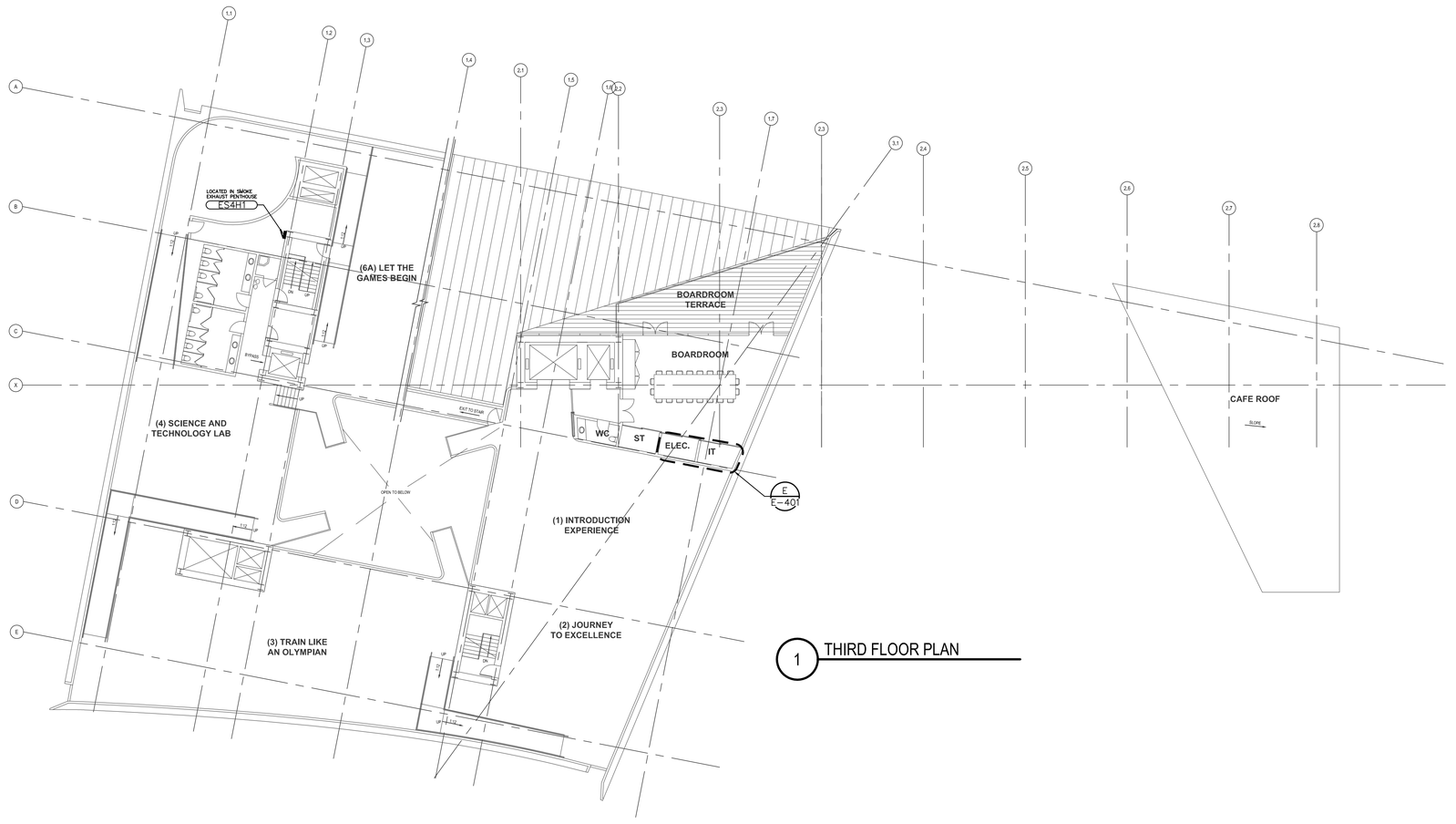

1 THIRD FLOOR PLAN

GENERAL NOTES:

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KEY NOTES:
(SOME KEY NOTES MAY NOT APPLY TO THIS SHEET.)

US OLYMPIC MUSEUM

OWNER:
United States Olympic Museum
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LEVEL 3 PLAN (UPPER FLOOR)
1/16" = 1'-0"

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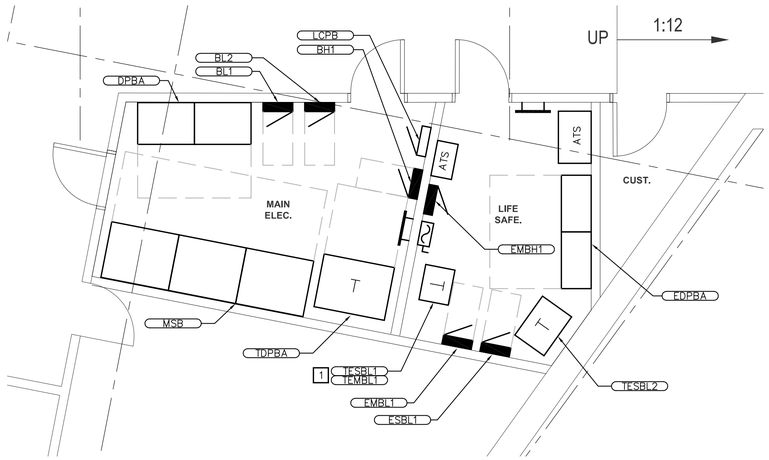
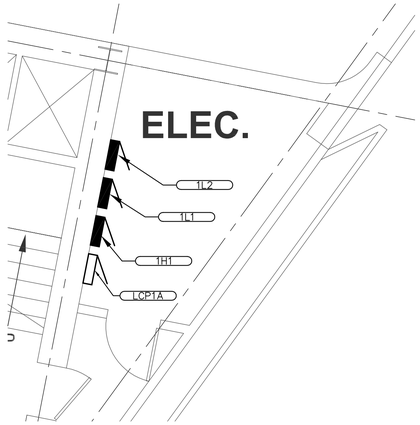
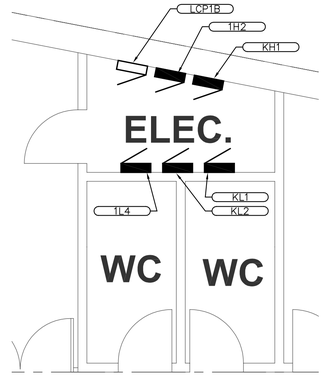


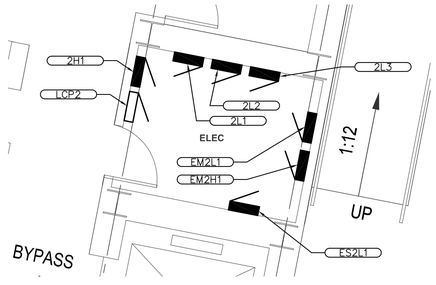
A ENLARGED BASEMENT MAIN & EMERGENCY ELEC RMS



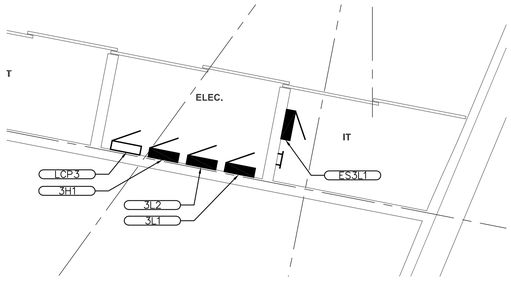
B ENLARGED GROUND FLOOR LOBBY ELEC RM



C ENLARGED RESTAURANT & RETAIL ELEC RM



D ENLARGED SECOND FLOOR ELEC RM



E ENLARGED THIRD FLOOR ELEC RM

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KEY NOTES:

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1 TWO TRANSFORMERS AT THIS LOCATION. MOUNT ONE TRANSFORMER ABOVE THE OTHER.

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PROJECT NUMBER
14011

TITLE
ENLARGED ELECTRICAL ROOM PLANS
1/4" = 1'-0"

DRAWING NO.
E-401

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FEEDER TABLE - COPPER CONDUCTORS (SEE SPECIFICATIONS FOR INSULATION TYPE)							
3 WIRE				4 WIRE			
FDR REF	WIRE AWG/ KCMIL	GRD WIRE AWG/KCMIL	CONDUIT W/GRD INCHES	FDR REF	WIRE AWG/ KCMIL	GRD WIRE AWG/KCMIL	CONDUIT W/GRD INCHES
F1	(3) 12	12	3/4	FA1	(4) 12	12	3/4
F2	(3) 10	10	3/4	FA2	(4) 10	10	3/4
F3	(3) 8	10	1	FA3	(4) 8	10	1
F4	(3) 6	10	1	FA4	(4) 6	10	1-1/4
F5	(3) 4	8	1-1/4	FA5	(4) 4	8	1-1/4
F6	(3) 3	8	1-1/4	FA6	(4) 3	8	1-1/2
F7	(3) 2	8	1-1/2	FA7	(4) 2	8	1-1/2
F8	(3) 1	6	2	FA8	(4) 1	6	2
F9	(3) 1/0	6	2	FA9	(4) 1/0	6	2
F10	(3) 2/0	6	2	FA10	(4) 2/0	6	2-1/2
F11	(3) 3/0	6	2-1/2	FA11	(4) 3/0	6	2-1/2
F12	(3) 4/0	4	2-1/2	FA12	(4) 4/0	4	3
F13	(3) 250	4	3	FA13	(4) 250	4	3
F14	(3) 350	4	3	FA14	(4) 350	4	3-1/2
F15	(3) 500	3	3-1/2	FA15	(4) 500	3	4
F16	(6) 4/0	(2) 2	(2) 2-1/2	FA16	(8) 4/0	(2) 2	(2) 3
F17	(6) 250	(2) 2	(2) 3	FA17	(8) 250	(2) 2	(2) 3
F18	(6) 350	(2) 1	(2) 3	FA18	(8) 350	(2) 1	(2) 3-1/2
F19	(6) 500	(2) 1/0	(2) 3-1/2	FA19	(8) 500	(2) 1/0	(2) 4
F20	(9) 300	(3) 1/0	(3) 3	FA20	(12) 300	(3) 1/0	(3) 3-1/2
F21	(9) 400	(3) 2/0	(3) 3-1/2	FA21	(12) 400	(3) 2/0	(3) 3-1/2
F22	(12) 350	(4) 3/0	(4) 3	FA22	(16) 350	(4) 3/0	(4) 3-1/2
F23	(12) 600	(4) 4/0	(4) 4	FA23	(16) 600	(4) 4/0	(4) 5
F24	(18) 500	(6) 250	(6) 3-1/2	FA24	(24) 500	(6) 250	(6) 4
F25	(18) 700	(6) 350	(6) 5	FA25	(24) 700	(6) 350	(6) 5
F26	(24) 600	(8) 400	(8) 4	FA26	(32) 600	(8) 400	(8) 5
F27	(30) 700	(10) 500	(10) 5	FA27	(40) 700	(10) 500	(10) 5

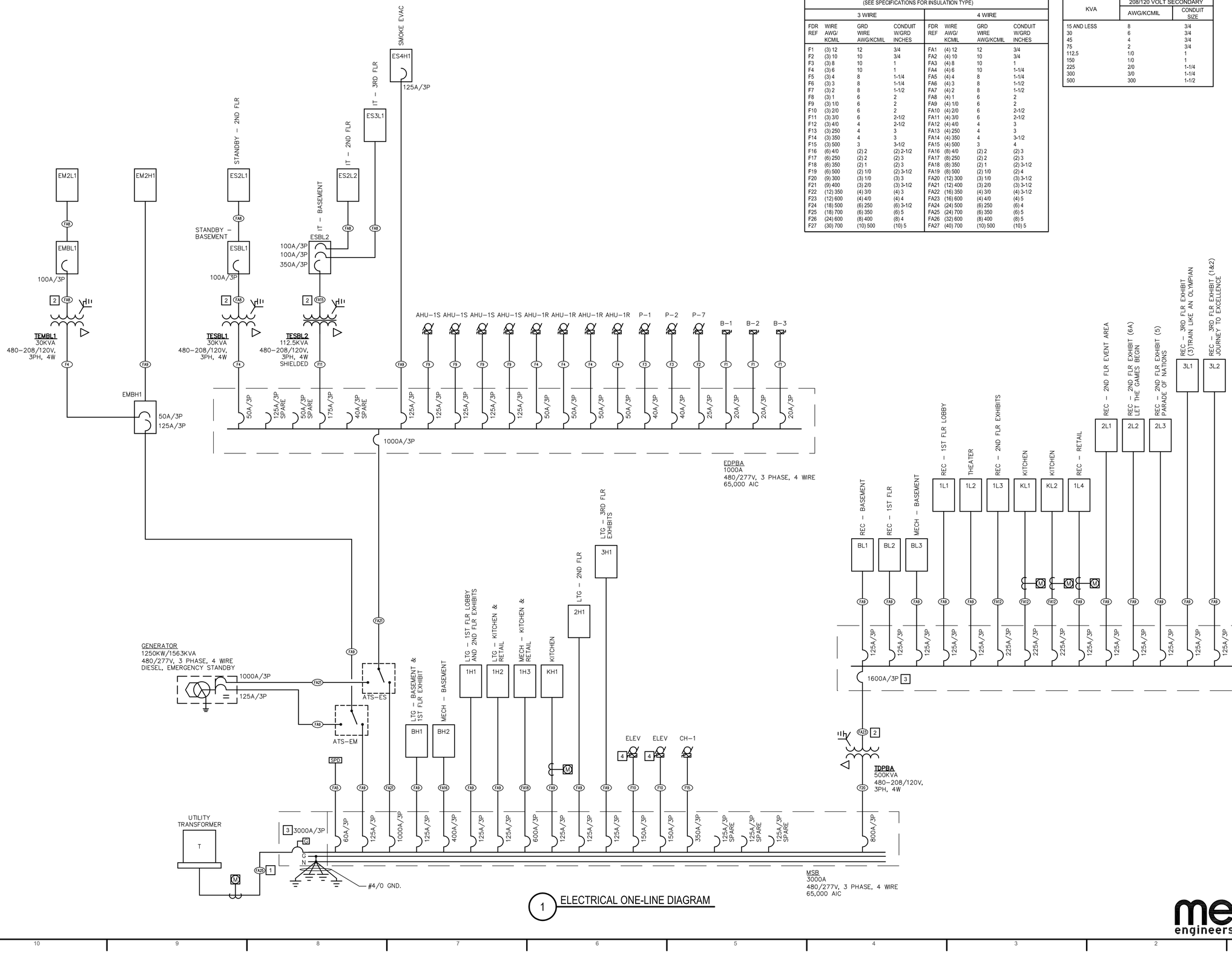
TRANSFORMER GROUND SIZING TABLE		
KVA	208/120 VOLT SECONDARY	
	AWG/KCMIL	CONDUIT SIZE
15 AND LESS	8	3/4
30	6	3/4
45	4	3/4
75	2	3/4
112.5	1/0	1
150	1/0	1
225	2/0	1-1/4
300	3/0	1-1/4
500	300	1-1/2

GENERAL NOTES:

A. REFER TO MECHANICAL SHEDULES FOR FEEDER AND DISCONNECT SIZES FOR MECHANICAL EQUIPMENT.

KEYED NOTES:

1. DO NOT INSTALL GROUND CONDUCTORS WITH THIS FEEDER.
2. PROVIDE GROUNDING CONDUCTOR SIZE AS INDICATED IN THE TRANSFORMER GROUNDING TABLE IN LIEU OF THE ONE INDICATED IN THE FEEDER TABLE.
3. PROVIDE 100% RATED BREAKER.
4. CONNECTION TO ELEVATOR MOTOR. PROVIDE BUSSMANN POWER MODULE SWITCH OR APPROVED EQUAL WITH PILOT LIGHT AND FIRE ALARM VOLTAGE MONITORING RELAY.



1 ELECTRICAL ONE-LINE DIAGRAM

US OLYMPIC MUSEUM

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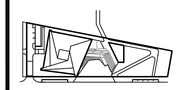

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E-701

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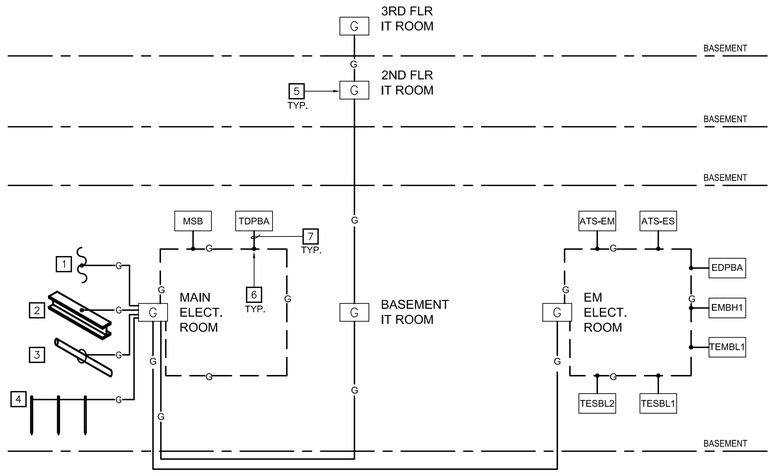
US OLYMPIC MUSEUM LOADS

ITEM NO.	DESCRIPTION	WATTS / SQFT.	AREA	HP	KW	FLA	VOLTAGE	PHASE	QTY.		subtotal	demand	TOTAL KW	
	EM Lighting Load	0.1	56000		5.60		277	1	1		5.60	1.25	7.00	
	FACP				1.92	16	120	1	1		1.92	1	1.92	
													0.00	25% of largest motor
	EMERGENCY SUBTOTAL (EMBH1)												**8.92**	**10.73 A at 480V-3PH**
	IT ROOMS (ESBL2)				67.37	187	208	3	1		67.37	1	67.37	
	208V/120V IT ROOM SUBTOTAL (ESBL2)												**67.37**	**187.00 A at 208V-3PH**
	IT Cooling Basement				3.33	16	208	1	1		3.33	1		
	IT Cooling Basement				3.33	16	208	1	1		3.33	1	3.33	
	IT Cooling 2nd Level				3.33	16	208	1	1		3.33	1	3.33	
	IT Cooling 3rd Level				3.33	16	208	1	1		3.33	1	3.33	
	208V/120V STANDBY SUBTOTAL (ESBL1)												**13.31**	**36.95 A at 208V-3PH**
	EF-1			15	17.46	21	480	3	1		17.46	1	17.46	
	EF-2			15	17.46	21	480	3	1		17.46	1	17.46	
	EF-3			15	17.46	21	480	3	1		17.46	1	17.46	
	P-1			20	25.77	31	480	3	1		25.77	1	25.77	
	P-2			20	25.77	31	480	3	1		25.77	1	25.77	
	P-7			7.5	9.15	11	480	3	1		9.15	1	9.15	
	B-1				12.47	15	480	3	1		12.47	1	12.47	
	B-2				12.47	15	480	3	1		12.47	1	12.47	
	B-3				12.47	15	480	3	1		12.47	1	12.47	
	AHU-1S			75	80.64	97	480	3	4		322.58	1	322.58	
	AHU-1R			25	31.59	38	480	3	4		126.37	1	126.37	
													20.16	25% of largest motor
	STANDBY SUBTOTAL (EDPBA)												**700.27**	**842.30 A at 480V-3PH**
	GENERATOR TOTAL												**709.19**	**853.02 A at 480V-3PH**
	Basement Admin/BOH REC.	2.0	11493		22.99		120	1	1		22.99	1	22.99	
	Basement Admin/BOH Comp.	6.0	2216		13.30		120	1	1		13.30	1	13.30	
	BASEMENT 208V/120V SUBTOTAL (BL1)												**36.28**	**100.71 A at 208V-3PH**
	Elevator CRAC				6.24	30	208	1	1		6.24	1	6.24	
	Elevator CRAC				6.24	30	208	1	1		6.24	1	6.24	
	Elevator CRAC				6.24	30	208	1	1		6.24	1	6.24	
	Elevator CRAC				6.24	30	208	1	1		6.24	1	6.24	
	BASEMENT MECH 208V/120V SUBTOTAL (BL3)												**24.96**	**69.28 A at 208V-3PH**
	Retail/Restaurant Receptacles	20.0	7138		142.76		120	1	1		142.76	1	142.76	
	Retail/Restaurant Computers	1.0	7138		7.14		120	1	1		7.14	1	7.14	
	KITCHEN 208V/120V SUBTOTAL (KL1, KL2, 1L4)												**149.90**	**416.08 A at 208V-3PH**
	Lobby Receptacles	2.0	7022		14.04		120	1	1		14.04	1	14.04	
	Lobby Computers	3.0	1963		5.89		120	1	1		5.89	1	5.89	
	2F Exhibit (6B) Receptacles	7.0	2777		19.44		120	1	1		19.44	1	19.44	
	2F Exhibit (6c) Receptacles	7.0	2427		16.99		120	1	1		16.99	1	16.99	
	LOBBY 208V/120V SUBTOTAL (1L1, 1L3)												**56.36**	**156.44 A at 208V-3PH**
	1F Exhibit Receptacles	7.0	3500		24.50		120	1	1		24.50	1	24.50	
	1F Theater Receptacles	7.0	2421		16.95		120	1	1		16.95	1	16.95	
	1F EXHIBIT 208V/120V SUBTOTAL (1L2, BL2)												**41.45**	**115.05 A at 208V-3PH**
	2F Exhibit (6A) Receptacles	7.0	3223		22.56		120	1	1		22.56	1	22.56	
	2F Exhibit (5) Receptacles	7.0	1856		12.99		120	1	1		12.99	1	12.99	
	3F Exhibit (4) Receptacles	7.0	1630		11.41		120	1	1		11.41	1	11.41	
	2F Event Receptacles	4.0	3089		12.36		120	1	1		12.36	1	12.36	
	2F Event Computers	1.0	3089		3.09		120	1	1		3.09	1	3.09	
	2F EXHIBIT 208V/120V SUBTOTAL (2L1, 2L2, 2L3)												**62.41**	**173.23 A at 208V-3PH**
	3F Exhibit (3) Receptacles	7.0	3716		26.01		120	1	1		26.01	1	26.01	
	3F Exhibit (1 & 2) Receptacles	7.0	3817		26.72		120	1	1		26.72	1	26.72	
	3F Admin Receptacles	2.0	2715		5.43		120	1	1		5.43	1	5.43	
	3F Admin Computers	6.0	1286		7.72		120	1	1		7.72	1	7.72	
	3F EXHIBIT 208V/120V SUBTOTAL (3L1, 3L2)												**65.88**	**182.86 A at 208V-3PH**
	SERVICE 208/120V SUBTOTAL (DPBA)												**437.23**	**1213.64 A at 208V-3PH**
	1F Exhibit Lighting	5.1	5921		30.20		277	1	1		30.20	1.25	37.75	
	Basement Lighting (BH1)	0.9	11493		10.34		277	1	1		10.34	1.25	12.93	**15.55 A at 480V-3PH**
	BASEMENT 480V/277V SUBTOTAL (BH1)												**50.68**	**60.95375 A at 480V-3PH**
	P-3			30	37.41	45	480	3	1		37.41	1	37.41	
	P-4			30	37.41	45	480	3	1		37.41	1	37.41	
	P-5			30	33.26	40	480	3	1		33.26	1	33.26	
	P-6			30	33.26	40	480	3	1		33.26	1	33.26	
	P-8			2	2.83	3.4	480	3	1		2.83	1	2.83	
	P-9			3	5.74	6.9	480	3	1		5.74	1	5.74	
	P-10			3	5.74	6.9	480	3	1		5.74	1	5.74	
	Elevator 3 (Gallery) Oil Cooler			3	3.99	4.8	480	3	2		7.98	1	7.98	
	Elevator 1 (Event)			20	33.26	40	480	3	1		33.26	1	33.26	
	Elevator 2 (Service)			20	33.26	40	480	3	1		33.26	1	33.26	
	P-11			3	3.99	4.8	480	3	1		3.99	1	3.99	
	CT-1			15	19.12	23	480	3	1		19.12	1	19.12	
													9.35	25% of largest motor
	BASEMENT 480V/277V SUBTOTAL (BH2)												**262.59**	**315.85 A at 480V-3PH**
	Kitchen Lighting (1H2)	1.6	7138		11.42		277	1	1		11.42	1.25	**14.28**	**17.17 A at 480V-3PH**
	AHU-2S			20	22.45	27	480	3	4		89.79	1	89.79	
	AHU-2R			40	43.23	52	480	3	4		172.93	1	172.93	
	Elevator 4 (Kitchen)			20	33.26	40	480	3	4		133.02	1	133.02	
	DUMBWAITER			10	18.29	22	480	3	4		73.16	1	73.16	
	KEF-1			3	3.99	4.8	480	3	1		3.99	1	3.99	
													10.81	25% of largest motor
	KITCHEN 480V/277V SUBTOTAL (1H3)												**483.70**	**581.8 A at 480V-3PH**
	Lobby Lighting	1.1	7022		7.72		277	1	1		7.72	1.25	9.66	
	LOBBY 480V/277V SUBTOTAL (1H1)												**9.66**	**11.61346 A at 480V-3PH**
	2F Exhibit Lighting 6B, 6C	5.1	5204		26.54		277	1	1		26.54	1.25	33.18	
	2F Exhibit Lighting 4, 5, 6A	5.1	6709		34.22		277	1	1		34.22	1.25	42.77	
	2F Event Lighting	1.1	3089		3.40		277	1	1		3.40	1.25	4.25	
	2F EXHIBIT 480V/277V SUBTOTAL (2H1)												**47.02**	**56.55296 A at 480V-3PH**
	3F Exhibit Lighting	5.1	7330		37.38		277	1	1		37.38	1.25	46.73	
	3F Admin Lighting	0.9	1286		1.16		277	1	1		1.16	1.25	1.45	
	3F Smoke Room Lighting	0.9	1489		1.34		277	1	1		1.34	1.25	1.68	
	3F EXHIBIT 480V/277V SUBTOTAL (3H1)												**49.85**	**59.96098 A at 480V-3PH**
	CH-1				196.21	236	480	3	1		196.21	1	196.21	
	Elevator 3 (Gallery)			50	77.32	93	480	3	2		154.64	1	154.64	
													20.16	25% of largest motor
	SERVICE TOTAL (MSB)												2428.05	**2920.49 A at 480V-3PH**

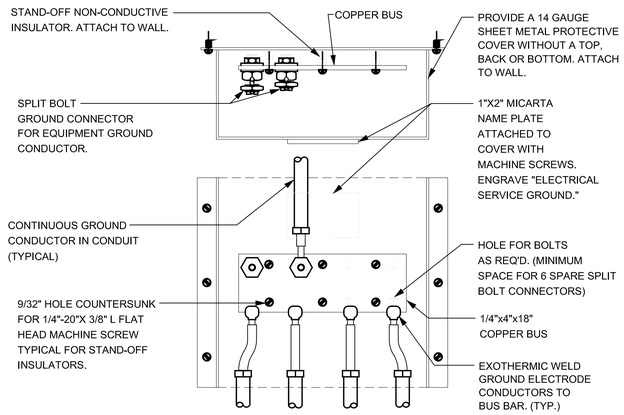
MECHANICAL EQUIPMENT ELECTRICAL SCHEDULE

FIXTURE TAG	EQUIPMENT DESCRIPTION	LOAD INFORMATION HP	kW	FLA	VOLTAGE	PHASE	MCA	MOCP	DISCONNECT MEANS*	FEEDING PANEL	BRANCH CIRCUIT (COPPER) SETS	CONDUCTORS	GROUND	CONDUIT	NOTES
CH-1	CHILLER			236	480	3	295.0	350	FUSED DISCONNECT	MSB	1	3 # 500	# 3	3	
CT-1	COOLING TOWER	15		23	480	3	28.8	30	VFD W/FUSED DISC	BH2	1	3 # 10	# 10	1/2	VFD
AHU-1S	AIR HANDLING UNIT SUPPLY FAN	75		97	480	3	121.3	125	VFD W/FUSED DISC	EDPA	1	3 # 1	# 6	1 1/4	VFD
AHU-1R	AIR HANDLING UNIT RETURN FAN	25		38	480	3	47.5	50	VFD W/FUSED DISC	EDPA	1	3 # 8	# 10	3/4	VFD
AHU-2S	AIR HANDLING UNIT SUPPLY FAN	40		59	480	3	73.8	80	VFD W/FUSED DISC	1H3	1	3 # 4	# 8	1	VFD
AHU-2R	AIR HANDLING UNIT RETURN FAN	20		31	480	3	38.8	40	VFD W/FUSED DISC	1H3	1	3 # 8	# 10	3/4	VFD
P-1	PUMP	20		31	480	3	38.8	40	VFD W/FUSED DISC	EDPA	1	3 # 8	# 10	3/4	VFD
P-2	PUMP	20		31	480	3	38.8	40	VFD W/FUSED DISC	EDPA	1	3 # 8	# 10	3/4	VFD
P-3	PUMP	30		45	480	3	56.3	60	VFD W/FUSED DISC	BH2	1	3 # 6	# 10	3/4	VFD
P-4	PUMP	30		45	480	3	56.3	60	VFD W/FUSED DISC	BH2	1	3 # 6	# 10	3/4	VFD
P-5	PUMP	30		40	480	3	50.0	90	FUSED DISCONNECT	BH2	1	3 # 3	# 8	1	
P-6	PUMP	30		40	480	3	50.0	90	FUSED DISCONNECT	BH2	1	3 # 3	# 8	1	
P-7	PUMP	7 1/2		11	480	3	13.8	25	FUSED DISCONNECT	EDPA	1	3 # 10	# 10	1/2	
P-8	PUMP	2		3.4	480	3	4.3	15	FUSED DISCONNECT	BH2	1	3 # 12	# 12	1/2	
P-9	PUMP	3		6.9	480	3	8.6	15	VFD W/FUSED DISC	BH2	1	3 # 12	# 12	1/2	VFD
P-10	PUMP	3		6.9	480	3	8.6	15	VFD W/FUSED DISC	BH2	1	3 # 12	# 12	1/2	VFD
P-11	PUMP	3		4.8	480	3	6.0	15	FUSED DISCONNECT	BH2	1	3 # 12	# 12	1/2	
B-1	BOILER			12	480	3	15.0	20	FUSED DISCONNECT	EDPA	1	3 # 12	# 12	1/2	
B-2	BOILER			12	480	3	15.0	20	FUSED DISCONNECT	EDPA	1	3 # 12	# 12	1/2	
B-3	BOILER			12	480	3	15.0	20	FUSED DISCONNECT	EDPA	1	3 # 12	# 12	1/2	
EF-1	EXHAUST FAN	15		21	480	3	26.3	45	FUSED DISCONNECT	ES4H1	1	3 # 8	# 10	3/4	
EF-2	EXHAUST FAN	15		21	480	3	26.3	45	FUSED DISCONNECT	ES4H1	1	3 # 8	# 10	3/4	
EF-3	EXHAUST FAN	15		21	480	3	26.3	45	FUSED DISCONNECT	ES4H1	1	3 # 8	# 10	3/4	
KEF-1	KITCHEN EXHAUST FAN	3		4.8	480	3	6.0	15	FUSED DISCONNECT	1H3	1	3 # 12	# 12	1/2	
ELEV-1	EVENT ELEVATOR	20		40	480	3	50.0	60	FUSED DISCONNECT	BH2	1	3 # 6	# 10	3/4	
ELEV-2	SERVICE ELEVATOR	20		40	480	3	50.0	60	FUSED DISCONNECT	BH2	1	3 # 6	# 10	3/4	
ELEV-3	GALLERY ELEVATOR	50		93	480	3	116.3	150	FUSED DISCONNECT	MSB	1	3 # 1/0	# 6	1 1/2	
ELEV-3OC	GALLERY ELEVATOR OIL COOLER	3		4.8	480	3	6.0	15	FUSED DISCONNECT	BH2	1	3 # 12	# 12	1/2	
ELEV-4	KITCHEN ELEVEATOR	20		40	480	3	50.0	60	FUSED DISCONNECT	1H3	1	3 # 6	# 10	3/4	

NOTES:



1 GROUNDING RISER DIAGRAM



NOTE: DETAIL ASSUMES MOUNTING ON A SOLID MASONRY WALL. IF INSTALLATION IS ON A DRYWALL PARTITION, PROVIDE A STEEL CHANNEL OR PLYWOOD BACKING THAT SPANS BETWEEN STUDS.

2 GROUND ASSEMBLY DETAIL

GENERAL NOTES:

A. GROUND LOCAL SWITCHBOARD GROUND BUS, TRANSFORMER NEUTRAL AND FIRE ALARM CABINETS TO NEAREST GROUND ASSEMBLY.

C. ——G—— 1"C, 1#4/0 GROUND, UON.

D. — — — — G — — — — #4/0 BARE GOUND CONDUCTOR IN GROUND LOOP BELOW SLAB, UON.

E. PROVIDE TELEPHONE ROOM GROUNDING PER TELE/DATA DRAWINGS.

KEYED NOTES:

1. UFER GROUND.
2. GROUND CONNECTION TO BUILDING STEEL.
3. GROUND CONNECTION TO METALLIC COLD WATER PIPE.
4. GROUND CONNECTION TO GROUND RODS.
5. GROUND ASSEMBLY, TYPICAL. SEE DETAIL THIS SHEET.
6. EXOTHERMIC WELD TO GROUND LOOP, TYPICAL.
7. PROVIDE BARE COPPER CONDUCTOR FROM GROUND LOOP TO EQUIPMENT ENCLOSURE, TYPICAL. REFER TO ONE-LINE DIAGRAM FEEDER TABLE OR TRANSFORMER GROUND TABLE FOR CONDUCTOR SIZE.

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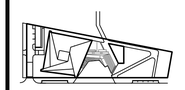
KEY PLAN



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TITLE
ELECTRICAL SCHEDULES AND DETAILS
NO SCALE

DRAWING NO.
E-702

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UNITED STATES OLYMPIC MUSEUM
FIRE ALARM SYSTEM

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE CONSTRUCTION OF A NEW U.S. OLYMPIC MUSEUM IN COLORADO SPRINGS, COLORADO. THE FIRE ALARM SYSTEM WILL PROVIDE A CODE COMPLIANT DETECTION AND NOTIFICATION SYSTEM FOR THE BUILDING. THE NEW SYSTEM WILL INCLUDE AN EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM (EVACS). THE SYSTEM WILL ALSO INTERFACE WITH AN ATRIUM SMOKE CONTROL SYSTEM

THE NEW FIRE ALARM CONTROL PANEL WILL BE INSTALLED IN A FIRE COMMAND ROOM LOCATED ON NEAR THE MAIN ENTRANCE, SUBJECT TO APPROVAL BY THE COLORADO SPRINGS FIRE DEPARTMENT. SPEAKER/STROBE DEVICES WILL BE USED FOR OCCUPANT NOTIFICATION. THE FIRE ALARM SYSTEM WILL BE ADDRESSABLE AND CAPABLE OF AUTOMATICALLY TESTING THE SENSITIVITY OF THE SMOKE DETECTORS. ALL FIRE ALARM DEVICES WILL BE NEW AND ALL COMPONENTS OF THE EXISTING FIRE ALARM SYSTEM WILL BE REMOVED, EXCEPT WHERE SPECIFICALLY NOTED.

APPLICABLE CODES AND STANDARDS

APPLICABLE CODES AND STANDARDS INCLUDE THE FOLLOWING:

INTERNATIONAL BUILDING CODE (IBC), 2009 EDITION AS ADOPTED AND AMENDED BY THE PIKES PEAK REGIONAL BUILDING DEPARTMENT

INTERNATIONAL MECHANICAL CODE (IMC), 2009 EDITION AS ADOPTED BY THE PIKES PEAK REGIONAL BUILDING DEPARTMENT

INTERNATIONAL FIRE CODE (IFC), 2009 EDITION AS ADOPTED AND AMENDED BY THE COLORADO SPRINGS FIRE DEPARTMENT

NFPA 70, NATIONAL ELECTRIC CODE, 2011 EDITION AS ADOPTED BY THE PIKES PEAK REGIONAL BUILDING DEPARTMENT

NFPA 72, NATIONAL FIRE ALARM AND SIGNALING CODE, 2013 EDITION AS ADOPTED BY THE COLORADO SPRINGS FIRE DEPARTMENT

ASME A17.1 SAFETY CODE FOR ELEVATORS AND ESCALATORS, 2007 EDITION AS ADOPTED BY THE PIKES PEAK REGIONAL BUILDING DEPARTMENT

CODE REVIEW

THE U.S. OLYMPIC MUSEUM IS A THREE–STORY BUILDING WITH A TOTAL GROSS BUILDING AREA OF APPROXIMATELY XXX SQ FT. THE BUILDING INCLUDES EXHIBITIONS SPACES, A THEATER, DINING AREAS, OFFICE AND CONFERENCE SPACES, AND SUPPORTING FUNCTIONS.

FIRE SUPPRESSION SYSTEMS

THE BUILDING IS FULLY PROTECTED WITH AN AUTOMATIC SPRINKLER SYSTEM, AND A MANUAL WET STANDPIPE SYSTEM. THE FIRE ALARM SYSTEM MONITORS THE SPRINKLER SYSTEM FOR WATERFLOW AND TAMPER CONDITIONS.

FIRE DETECTION AND ALARM SYSTEMS

PER IBC SECTION 907.2.1, A MANUAL FIRE ALARM SYSTEM THAT ACTIVATES AN EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM IS REQUIRED THROUGHOUT THE BUILDING BECAUSE THE COMBINED OCCUPANT LOAD FOR ALL FLOORS EXCEEDS 1,000 PEOPLE.

EMERGENCY VOICE/ALARM COMMUNICATION SYSTEMS

PER IBC SECTION 907.5.2.2, EMERGENCY VOICE/ALARM COMMUNICATION SYSTEMS (EVACS) ARE REQUIRED TO BE DESIGNED AND INSTALLED IN ACCORDANCE WITH NFPA 72 AND HAVE THE FOLLOWING FEATURES:

- OPERATION OF ANY MANUAL FIRE ALARM BOX, AUTOMATIC FIRE DETECTOR, OR WATERFLOW DEVICE AUTOMATICALLY SOUNDS AN ALERT TONE FOLLOWED BY VOICE INSTRUCTIONS GIVING APPROVED INFORMATION AND DIRECTIONS FOR A GENERAL OR STAGED EVACUATION.
- SPEAKERS ARE TO BE PROVIDED THROUGHOUT THE BUILDING AND DIVIDED INTO PAGING ZONES. AT A MINIMUM, THE FOLLOWING PAGING ZONES ARE REQUIRED:
  - ELEVATOR GROUPS
  - EXIT STAIRWAYS
  - EACH FLOOR
  - AREAS OF REFUGE AS DEFINED IN IBC SECTION 1002.1
- A MANUAL OVERRIDE FOR EMERGENCY VOICE COMMUNICATION PROVIDED ON A SELECTIVE AND ALL–CALL BASIS FOR ALL PAGING ZONES.
- CAPABLE OF DELIVERING LIVE VOICE MESSAGES ON A SELECTIVE AND ALL–CALL BASIS FOR ALL PAGING ZONES.
- MAY BE USED FOR NON–FIRE ALARM ANNOUNCEMENTS, PROVIDED THE MANUAL FIRE ALARM TAKES PRECEDENCE OVER ANY USE.
- PROVIDED WITH AN APPROVED EMERGENCY POWER SOURCE.

MANUAL FIRE ALARM BOXES

A SINGLE MANUAL FIRE ALARM BOX WILL BE PROVIDED AT THE FIRE ALARM CONTROL PANEL LOCATION. THE OPERABLE PART OF FIRE ALARM BOXES ARE TO BE MOUNTED AT 42 TO 48 INCHES ABOVE THE FINISHED FLOOR.

AUTOMATIC SMOKE/HEAT DETECTION

THE U.S. OLYMPIC MUSEUM IS NOT REQUIRED TO BE PROVIDED WITH FULL COVERAGE AUTOMATIC DETECTION. HOWEVER, THE BUILDING CONTAINS AN ATRIUM SMOKE EXHAUST SYSTEM WHICH REQUIRES SMOKE DETECTION FOR EARLY ACTIVATION.

BECAUSE THE ATRIUM SPACE COVERS SUCH A LARGE PORTION OF THE BUILDING, ALL PORTIONS OF THE BUILDING EXCEPT FOR THE BASEMENT WILL BE PROVIDED WITH FULL COVERAGE SMOKE DETECTION. SPECIFIC AREAS OF THE BASEMENT THAT WILL ADDITIONALLY REQUIRE DETECTION INCLUDE:

- ANY AUXILIARY CONTROL PANEL OR NOTIFICATION POWER SUPPLIES
- RELEASE OF MAGNETIC DOOR HOLDERS AT FIRE–RATED ASSEMBLIES
- ELECTRICAL AND TELECOMMUNICATION/DATA ROOMS
- ELEVATOR LOBBIES AND MACHINE ROOMS FOR RECALL FUNCTION
- ELEVATOR SHUNT TRIP – HEAT DETECTORS WILL BE PROVIDED IN ELEVATOR EQUIPMENT ROOMS TO INITIATE SHUNT TRIP PRIOR TO SPRINKLER SYSTEM ACTIVATION.

DETECTION MAY ALSO BE PROVIDED AT OTHER LOCATIONS IF OWNER DESIRES OR IF ENGINEERING JUDGMENT DETERMINES THAT IT IS APPROPRIATE AND PRUDENT TO THE BUILDING.

DUCT SMOKE DETECTION

DUCT DETECTORS ARE REQUIRED IN THE FOLLOWING LOCATIONS PER THE IFC AND THE IMC:

- ALL MAIN RETURN AIR PLENUMS OF EACH AIR HANDLING SYSTEM OF 2,000 CFM OR GREATER, NOT SERVED BY FULL COVERAGE AREA SMOKE DETECTION
- AT EACH FLOOR ON RETURN RISERS SERVING MULTIPLE FLOORS WITH A TOTAL RETURN OF 15,000 CFM OR GREATER,
- ACTUATION OF SMOKE AND COMBINATION FIRE/SMOKE DAMPERS FOR AREAS NOT SERVED BY FULL COVERAGE AREA DETECTION.

NOTIFICATION

PER IBC SECTION 907.5, A FIRE ALARM SYSTEM IS REQUIRED TO ANNUNCIATE AT THE FIRE ALARM CONTROL UNIT AND INITIATE OCCUPANT NOTIFICATION UPON ACTIVATION BY ONE OF THE FOLLOWING:

- AUTOMATIC FIRE DETECTORS
- SPRINKLER WATERFLOW DEVICES
- MANUAL FIRE ALARM BOXES
- AUTOMATIC FIRE–EXTINGUISHING SYSTEMS

IBC SECTION 907.5.2 REQUIRES AUDIBLE DEVICES TO PRODUCE A SOUND THAT EXCEEDS THE PREVAILING EQUIVALENT (AMBIENT) SOUND LEVEL IN THE ROOM BY 15 DECIBELS (DBA).

PER IBC SECTION 907.5.2.3, VISIBLE NOTIFICATION IS REQUIRED TO BE PROVIDED IN PUBLIC AND COMMON AREAS IN ACCORDANCE WITH NFPA 72.

WIRING

FIRE ALARM SYSTEM AND COMMUNICATIONS WIRING SHALL COMPLY WITH PROVISIONS OF NFPA 72 AND NFPA 70 (NEC).

POWER

PROVIDE PRIMARY AND BACKUP POWER IN ACCORDANCE WITH NFPA 72.

ATRIUM SMOKE CONTROL

DESCRIPTION

THE BUILDING INCLUDES A THREE STORY VERTICAL OPENING FROM LEVEL 1 GROUND TO LEVEL 3 THAT WILL BE PROTECTED WITH AN EXHAUST TYPE MECHANICALLY DRIVEN SMOKE CONTROL SYSTEM. THE SMOKE CONTROL SYSTEM IS DESIGNED TO MAINTAIN THE SMOKE LAYER AT LEAST 6 FT ABOVE THE HIGHEST OCCUPIED LEVEL OPEN TO THE ATRIUM.

ACTIVATION

THE ATRIUM SMOKE CONTROL SYSTEM IS ACTIVATED BY SPOT–TYPE SMOKE DETECTORS LOCATED WITHIN THE ATRIUM AND ADJACENT SPACES AND BY SPRINKLER WATER–FLOW SWITCHES SERVING PORTIONS OF THE BUILDING CONTAINING THE ATRIUM. THE SMOKE CONTROL SYSTEM IS NOT TO BE ACTIVATED BY MANUAL FIRE ALARM BOXES OF ANY KIND. MANUAL ACTIVATION IS PROVIDED BY THE FIREFIGHTER'S SMOKE CONTROL PANEL (SEE BELOW).

FIREFIGHTERS SMOKE CONTROL PANEL

A GRAPHIC FIREFIGHTER'S SMOKE CONTROL PANEL IS LOCATED WITHIN THE FIRE COMMAND ROOM ADJACENT TO THE MAIN ENTRANCE. THE GRAPHIC PANEL PROVIDES MANUAL AND OVERRIDE CONTROL OF ALL SMOKE CONTROL FUNCTIONS AND SHALL HAVE THE HIGHEST PRIORITY OF ANY SIGNALS IN THE SMOKE CONTROL SYSTEM. THE FINAL DESIGN OF THE GRAPHIC PANEL WILL BE APPROVED BY THE COLORADO SPRINGS FIRE DEPARTMENT.

THE FIRE ALARM CONTRACTOR SHALL INCLUDE THE GRAPHIC PANEL DESIGN WITHIN THEIR SHOP DRAWINGS.

CONTROLS

ALL CONTROL EQUIPMENT SERVING THE SMOKE CONTROL SYSTEM INCLUDING CONTROL UNITS AND VARIABLE FREQUENCY DRIVES (IF USED) SHALL BE UUKL LISTED AND MEET THE PROVISIONS OF UL 864.

MECHANICAL/BUILDING EQUIPMENT

MECHANICAL FANS MAY OR MAY NOT BE DEDICATED TO THE ATRIUM SMOKE CONTROL FUNCTION. FANS USED FOR SMOKE CONTROL FUNCTIONS SHALL BE MONITORED BY THE FIRE ALARM SYSTEM FOR VOLUMETRIC FLOW AND PRESENCE OF POWER DOWNSTREAM OF ALL DISCONNECTS.

DAMPERS REQUIRED FOR THE EFFECTIVE OPERATION OF THE SMOKE CONTROL SYSTEM SHALL BE CONTROLLED BY THE FIRE ALARM SYSTEM TO THE APPROPRIATE POSITION DURING SMOKE CONTROL FUNCTION AND SHALL BE PROVIDED WITH END SWITCHES MONITORED BY THE FIRE ALARM SYSTEM FOR CORRECT POSITION. ONLY THE DAMPER POSITION REQUIRED DURING SMOKE CONTROL MODE SHALL BE MONITORED.

DOORS REQUIRED FOR THE EFFECTIVE OPERATION OF THE SMOKE CONTROL SYSTEM SHALL BE PROVIDED WITH CONTACT SWITCHES MONITORED BY THE FIRE ALARM SYSTEM FOR CORRECT POSITION.

ELECTRICAL/WIRING

ALL WIRING SERVING THE SMOKE CONTROL SYSTEM, REGARDLESS OF VOLTAGE, SHALL BE FULLY ENCLOSED IN CONTINUOUS RACEWAYS.

ALL EQUIPMENT SERVING THE SMOKE CONTROL SYSTEM SHALL BE PROVIDED WITH PRIMARY AND STANDBY POWER. REFER TO ELECTRICAL DRAWINGS.

INDEX OF DRAWINGS

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FA–001	COVER SHEET, GENERAL NOTES & CODE REVIEW
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FA–003	FIRE ALARM LEGEND, RISER DIAGRAM & DETAILS
FA–100	BASEMENT LEVEL
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FA–104	ROOF LEVEL

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TITLE
FIRE ALARM GENERAL NOTES

DRAWING NO.
FA-001

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PROJECT DETAILS

FIRE ALARM SYSTEM DESIGN APPROACH

THE FIRE ALARM SYSTEM WILL BE A CODE COMPLIANT EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM (EVACS). FEATURES OF THE NEW EVACS INCLUDE THE FOLLOWING:

MAIN CONTROL PANEL

THE NEW CONTROL PANEL WILL BE UL–864 LISTED FIRE ALARM CONTROL UNIT, ALSO COMPATIBLE WITH OR LISTED FOR SMOKE CONTROL (UUKL).

A SYSTEM RECORD DOCUMENTATION CABINET SHALL BE PROVIDED ADJACENT TO THE FIRE ALARM CONTROL UNIT TO PROVIDE STORAGE OF ALL SYSTEM DOCUMENTS.

AUXILIARY PANELS

THE NEW NOTIFICATION APPLIANCE DESIGN MAY REQUIRE ADDITIONAL NOTIFICATION POWER SUPPLIES IN ADDITION TO THE FACP. IF SO, THE ADDITIONAL POWER SUPPLIES WILL BE INSTALLED IN UTILITY ROOMS ADEQUATE FOR SMOKE DETECTION WITH PROPER MOUNTING SPACE AND ACCESS, AS APPROVED BY THE OWNER. THESE POWER SUPPLIES WILL BE MONITORED AND CONTROLLED BY THE FACP.

NOTIFICATION APPLIANCES

NEW WALL– OR CEILING–MOUNTED STROBES WILL BE LOCATED THROUGHOUT PUBLIC AREAS OF THE FACILITY. PUBLIC AREAS INCLUDE EXHIBITION SPACES, DINING AREAS, RETAIL AREAS, RESTROOMS, CORRIDORS, CONFERENCE ROOMS, ASSEMBLY AREAS, AND SIMILAR. STROBES WILL ALSO BE PROVIDED WHERE OFFICES CONTAIN MORE THAN TWO WORKSTATIONS OR A CONFERENCE SPACE. EXISTING DEVICE LOCATIONS WILL BE USED WHEREVER POSSIBLE AND CODE–COMPLIANT.

NEW WALL– OR CEILING–MOUNTED SPEAKERS WILL BE LOCATED AS REQUIRED TO ACHIEVE AUDIBILITY IN ALL OCCUPIED AREAS. WHEREVER POSSIBLE, SPEAKERS WILL BE LOCATED AS NECESSARY TO ACHIEVE INTELLIGIBILITY IN OCCUPIED AREAS. IT MAY NOT BE POSSIBLE TO ACHIEVE INTELLIGIBILITY IN AREAS HAVING HIGHER AMBIENT NOISE SUCH AS MECHANICAL ROOMS OR IN AREAS HAVING HIGH CEILINGS AND/OR EXTENSIVE HARD SURFACES RESULTING IN HIGH REVERBERATION CHARACTERISTICS. IN SUCH AREAS, OCCUPANTS MAY NEED TO TRAVEL A LIMITED DISTANCE IN ORDER TO REACH AN AREA WITH INTELLIGIBLE SOUND.

NOTIFICATION DEVICES WILL BE LABELED WITH THEIR DEVICE ADDRESS, INCLUDING THE LOCATION OF ALL END–OF–LINE RESISTORS.

MANUAL INITIATION

FIRE ALARM BOXES WILL BE SPECIFIED BASED UPON OPERABLE PART LOCATION RELATIVE TO THE BOX WITH THE INTENT OF ACHIEVING A CODE–COMPLIANT HEIGHT (42"–48" TO OPERABLE PART OF ALARM BOX) WITHOUT HAVING TO ADJUST THE PHYSICAL LOCATION. THERE MAY BE SOME LOCATIONS WHERE THE ALARM BOX MAY HAVE TO BE LOWERED IN ORDER TO MEET THE CODE–COMPLIANT HEIGHT.

SMOKE DETECTION

SMOKE DETECTION WILL BE PROVIDED THROUGHOUT ALL PORTIONS OF LEVELS 1, 2 AND 3 DUE TO THE PRESENCE OF AN ATRIUM SMOKE CONTROL SYSTEM AND TO AVOID DUCT DETECTION AT THESE LEVELS. AT THE BASEMENT LEVEL, SMOKE DETECTION IS REQUIRED AT THE FOLLOWING LOCATIONS:

- AT THE MAIN FACP LOCATION AND AT ANY AUXILIARY PANEL OR NOTIFICATION POWER SUPPLY
- RELEASE OF MAGNETIC DOOR HOLDERS AT FIRE–RATED ASSEMBLIES
- ELEVATOR RECALL AND SHUNT TRIP (ELEVATOR LOBBIES AND MACHINE ROOMS)
- ACTUATION OF SMOKE AND FIRE/SMOKE DAMPERS (IF THE DAMPER IS UN–DUCTED)
- ELECTRICAL AND TELECOMMUNICATIONS/DATA ROOMS
- OTHER LOCATIONS IF ENGINEERING JUDGMENT DETERMINES THAT IT IS APPROPRIATE AND PRUDENT TO THE SAFETY OF OCCUPANTS OR THE PROTECTION OF THE BUILDING.

WHERE SMOKE DETECTION IS REQUIRED, ADDRESSABLE SMOKE DETECTORS WITH INDIVIDUAL ADDRESSES WILL BE PROVIDED AND WILL BE POSITIONED IN ACCORDANCE WITH NFPA 72. SMOKE DETECTORS WILL BE LABELED WITH THEIR DEVICES ADDRESS. IN GENERAL, EXISTING LOCATIONS WILL ONLY BE REUSED IF THEY ARE LOCATED AT CODE COMPLIANT LOCATIONS.

HEAT DETECTION

HEAT DETECTORS WILL ONLY BE PROVIDED IF REQUIRED BY CODE (E.G., ELEVATOR SHAFT AND MACHINE ROOMS) OR IF SYSTEM DETECTION IS REQUIRED IN AN AREA THAT IS NOT SUITABLE FOR SMOKE DETECTION SUCH AS MECHANICAL ROOMS. HEAT DETECTORS WILL BE LABELED WITH THEIR DEVICE ADDRESS.

DUCT SMOKE DETECTION

NEW DUCT SMOKE DETECTORS WILL BE PROVIDED TO COMPLY WITH THE IMC IN THE FOLLOWING LOCATIONS:

- ALL MAIN RETURN AIR PLENUMS OF EACH AIR HANDLING SYSTEM OF 2,000 CFM OR GREATER, NOT SERVED BY FULL COVERAGE SMOKE DETECTION (BASEMENT)
- AT EACH FLOOR ON RETURN RISERS SERVING MULTIPLE FLOORS WITH A TOTAL RETURN OF 15,000 CFM OR GREATER,
- ACTUATION OF SMOKE AND COMBINATION FIRE/SMOKE DAMPERS FOR AREAS NOT SERVED BY FULL COVERAGE SMOKE DETECTION.

NEW DUCT SMOKE DETECTORS WILL BE LABELED WITH THEIR DEVICE ADDRESS AND WILL BE PROVIDED WITH REMOTE TEST KEY SWITCHES. THE NEW REMOTE TEST KEY SWITCHES SHALL BE LOCATED ON CEILING BELOW THE UNIT. DUCT SMOKE DETECTORS, WHEN ACTUATED, WILL INITIATE A SUPERVISORY SIGNAL. THE REMOTE TEST KEY SWITCH SHALL BE LABELED WITH THE DEVICE ADDRESS AND AIR HANDLING UNIT NUMBER.

MAGNETIC DOOR HOLDERS

MAGNETIC DOOR HOLDERS ARE PROVIDED AT XXX. MAGNETIC DOOR HOLDERS ARE CIRCUITED TOGETHER TO THE EXISTING POWER SUPPLY. A NEW 10 AMP POWER SUPPLY AND ADDRESSABLE CONTROL MODULE WILL BE PROVIDED TO RELEASE ALL DOOR HOLDERS UPON ANY FIRE ALARM.

SUPPRESSION SYSTEM MONITORING

COMBINATION SPRINKLER/STANDPIPE SYSTEM WATERFLOW SWITCHES AND TAMPER SWITCHES WILL BE PROVIDED AS PART OF THE SPRINKLER SYSTEM INSTALLATION PROJECT. A FIRE PUMP IS NOT ANTICIPATED. KITCHEN HOOD SUPPRESSION SYSTEMS WILL BE MONITORED FOR ACTIVATION. NEW ADDRESSABLE MODULES WILL BE PROVIDED FOR MONITORING OF ALL SUPPRESSION SYSTEM DEVICES.

SYSTEM INSTALLATION

THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR NECESSARY FOR THE INSTALLATION OF A NEW AUTOMATIC FIRE DETECTION AND ALARM SYSTEM. WORK SHALL BE COMPLETED IN EVERY RESPECT RESULTING IN A SYSTEM INSTALLED ENTIRELY IN ACCORDANCE WITH THE APPLICABLE CODES, STANDARDS, MANUFACTURER'S RECOMMENDATIONS, AND LOCAL REQUIREMENTS. ALL NEW WIRE AND CABLE SHALL BE ROUTED IN METALLIC RACEWAY.

CONDUIT AND JUNCTION BOXES MAY NOT BE INSTALLED EXPOSED IN FINISHED AREAS. UNFINISHED AREAS ARE LIMITED TO MECHANICAL, ELECTRICAL, OR JANITOR CLOSETS AND ALL OTHER AREAS SHALL BE CONSIDERED FINISHED. SEPARATE COLORS WILL BE USED FOR EACH TYPE OF CIRCUIT.

THE CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER TRADES.

SEQUENCE OF OPERATION MATRIX

	ACTUATE COMMON ALARM SIGNAL AT FACP & ANNUNCIATORS	ACTUATE AUDIBLE ALARM SIGNAL AT FACP & ANNUNCIATORS	ACTUATE COMMON SUPERVISORY SIGNAL AT FACP & ANNUNCIATORS	ACTUATE AUDIBLE SUPERVISORY SIGNAL AT FACP & ANNUNCIATORS	ACTUATE COMMON TROUBLE SIGNAL AT FACP & ANNUNCIATORS	ACTUATE AUDIBLE TROUBLE SIGNAL AT FACP & ANNUNCIATORS	DISPLAY CHANGE OF STATUS ON FACP AND ANNUNCIATORS	TRANSMIT FIRE ALARM SIGNAL TO SUPERVISING STATION	TRANSMIT SUPERVISORY SIGNAL TO SUPERVISING STATION	TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION	ACTUATE NOTIFICATION APPLIANCES (SPKR/STRB) THROUGHOUT THE FACILITY	ACTUATE SELECTED SPEAKER CIRCUIT FOR LIVE VOICE ANNOUNCEMENT	RELEASE MAGNETICALLY HELD DOORS	INITIATE ELEVATOR RECALL TO PRIMARY FLOOR (BASEMENT LEVEL)	INITIATE ELEVATOR RECALL TO ALTERNATE FLOOR (FIRST FLOOR)	ACTIVATE ELEVATOR CAB FLASHING FIREMAN'S HAT	INITIATE ELEVATOR SHUNT TRIP	SHUT DOWN AHU ASSOCIATED WITH DUCT SMOKE DETECTOR ONLY	ACTIVATE EXTERIOR HORN/STROBE	ACTIVATE ASSOCIATED REMOTE INDICATING LIGHT (LED) IF APPLICABLE	DEACTIVATE INTERIOR AUDIBLE FIRE ALARM DEVICES	INITIATE RESET OF THE PANEL AND DEVICES	INITIATE ATRIUM SMOKE CONTROL SEQUENCE
MANUAL FIRE ALARM BOXES	X	X					X	X			X		X										
SMOKE DETECTORS - ALL, EXCEPT AS SPECIFICALLY NOTED BELOW	X	X					X	X			X		X										X
HEAT DETECTORS - ALL, EXCEPT SPECIFICALLY NOTED BELOW	X	X					X	X			X		X										
SPRINKLER MAIN WATERFLOW SWITCH	X	X					X	X			X		X							X			
SPRINKLER WATERFLOW SWITCH	X	X					X	X			X		X										X
SMOKE DETECTOR - BASEMENT LEVEL ELEVATOR LOBBY	X	X					X	X			X		X		X								
SMOKE DETECTOR - LEVELS 1, 2 OR 3 ELEVATOR LOBBY	X	X					X	X			X		X	X									X
SMOKE DETECTOR - ELEVATOR MACHINE ROOM	X	X					X	X			X		X		X	X							
HEAT DETECTOR - ELEVATOR MACHINE ROOM	X	X					X	X			X		X		X	X	X						
HEAT DETECTOR - ELEVATOR SHAFT	X	X					X	X			X		X	X		X	X						
SMOKE DETECTORS AT RETURN AIR INTAKES			X	X			X		X										X		X		
DUCT SMOKE DETECTORS - BASEMENT LEVEL			X	X			X		X												X		
SPRINKLER VALVE TAMPER SWITCH			X	X			X		X														
SHUNT TRIP POWER MONITOR			X	X			X		X														
ENABLE FIREFIGHTER'S SMOKE CONTROL PANEL			X	X			X		X														
FIRE ALARM PANEL AC POWER FAILURE					X	X	X			X													
FIRE ALARM PANEL LOW BATTERY					X	X	X			X													
NAC SHORT CIRCUIT					X	X	X			X													
OPEN CIRCUIT					X	X	X			X													
GROUND FAULT					X	X	X			X													
ADDRESSABLE DEVICE / SYSTEM COMPONENT FAILURE					X	X	X			X													
ALARM SILENCE							X														X		
SYSTEM RESET							X															X	
MICROPHONE ACTIVATION WITH CIRCUIT SELECTION SWITCH												X											

SEQUENCE OF OPERATION NOTES:

1. FIRE ALARM EVACUATION SIGNAL SHALL BE TEMPORAL 3 CODE WITH PRE–RECORDED SPOKEN VOICE EVACUATION MESSAGE.

2. FACP AND ANNUNCIATOR LOCATIONS SHALL BE PROVIDED WITH A MICROPHONE AND SPEAKER CIRCUIT SELECTION SWITCHES (MINIMUM ONE PER FLOOR) FOR LIVE VOICE ANNOUNCEMENTS. LIVE VOICE ANNOUNCEMENTS SHALL OVERRIDE ANY OTHER AUDIBLE SIGNAL.

3. FACP SHALL BE PROVIDED WITH A TELEPHONE PAGING INTERFACE TO ALLOW VOICE ANNOUNCEMENTS TO BE MADE OVER FIRE ALARM SPEAKERS BY AUTHORIZED PERSONNEL. VENDOR SHALL COORDINATE INTERFACE WITH UNC PERSONNEL.

4. ACOUSTICALLY DISTINGUISHABLE SPACES (ADS) NOT REQUIRING VOICE INTELLIGIBILITY SHALL INCLUDE, BUT NOT BE LIMITED TO, PRIVATE RESTROOMS, ELEVATOR EQUIPMENT ROOMS, ELEVATOR CABS, INDIVIDUAL OFFICES, STORAGE ROOMS, CLOSETS, MECHANICAL ROOMS, ELECTRICAL ROOMS, IT ROOMS, JANITOR ROOMS, AND SIMILAR SPACES.

5. ALL OTHER SPACES NOT NOTED IN NOTE 4 ABOVE SHALL BE PROVIDED WITH SPEAKERS TO PROVIDE AUDIBLE AND INTELLIGIBLE MESSAGES. SUCH AREAS SHALL BE VERIFIED USING SOUND PRESSURE METERS AND SUBJECTIVE INTELLIGIBILITY TESTING.

6. ATRIUM SMOKE CONTROL SEQUENCE – SEE SHEET XXX

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FIRE ALARM CONTROL PANEL SYMBOLS

SYMBOL	DESCRIPTION
FACP	FIRE ALARM CONTROL PANEL
FAA	FIRE ALARM ANNUNCIATOR
FFSC	FIREFIGHTER'S SMOKE CONTROL PANEL (GRAPHIC)
NAC	NOTIFICATION CIRCUIT POWER BOOSTER PANEL

FIRE ALARM INDICATING DEVICE SYMBOLS

SYMBOL	DESCRIPTION
CD	CEILING MOUNTED STROBE, CD = CANDELA RATING
CD	WALL MOUNTED STROBE, CD = CANDELA RATING
CD	COMBINATION HORN & STROBE, CD = CANDELA RATING
CD W	COMBINATION SPEAKER & STROBE, W = MIN. WATTAGE, CD = CANDELA RATING
S W C	SPEAKER – CEILING MOUNTED, W = MIN. WATTAGE
S W W	SPEAKER – WALL MOUNTED, W = MIN. WATTAGE

FIRE ALARM EQUIPMENT SYMBOLS

SYMBOL	DESCRIPTION
	MAGNETIC DOOR HOLDER
RTS	REMOTE ALARM INDICATING AND TEST SWITCH
R	RELAY
AIM	ADDRESSABLE INPUT MODULE
AOM	ADDRESSABLE OUTPUT MODULE

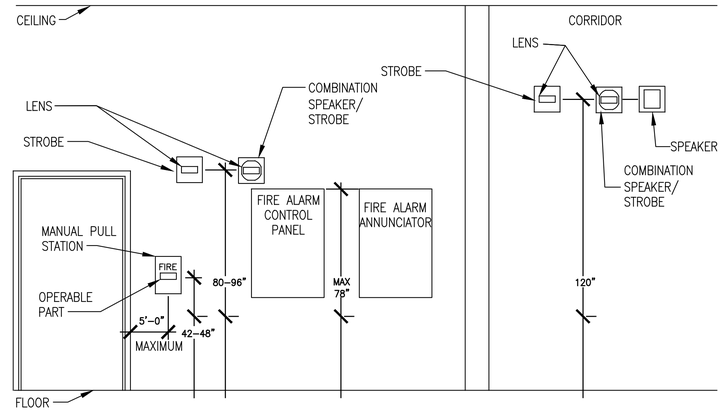
FIRE ALARM INITIATING DEVICE SYMBOLS

SYMBOL	DESCRIPTION
P	MANUAL PULL STATION
	HEAT DETECTOR
F	FIXED TEMPERATURE HEAT DETECTOR
R	RATE OF RISE HEAT DETECTOR
P	PHOTOELECTRIC SMOKE DETECTOR, WM=WALL–MOUNTED
	DUCT–MOUNTED SMOKE DETECTOR
WF	WATER FLOW SWITCH
PS	PRESSURE DETECTOR/SWITCH
T	VALVE SUPERVISORY SWITCH

ANNOTATION SYMBOLS

WP	WEATHER PROOF
	END OF LINE RESISTOR

1 **FIRE ALARM SYSTEM RISER DIAGRAM**
SCALE: NOT TO SCALE



MOUNTING HEIGHT NOTES:

NOTIFICATION DEVICES MOUNTED IN CORRIDORS WILL MOUNTED AT 120" ABOVE FINISHED FLOOR FOR CONSISTENCY WITH AND REUSE OF EXISTING DEVICE LOCATIONS. VISUAL NOTIFICATION DEVICE SPACING HAS BEEN CALCULATED IN ACCORDANCE WITH NFPA 72 SECTION 18.5.5.6 PERFORMANCE–BASED ALTERNATIVE. REFER TO TABLE BELOW.

SPACING FOR WALL–MOUNTED STROBES LOCATED 115–125" ABOVE FINISHED FLOOR

MAXIMUM ROOM SIZE	MINIMUM LIGHT OUTPUT
NOT PERMITTED	15 CD
NOT PERMITTED	30 CD
34 X 34 FT	60 CD
38 X 38 FT	75 CD
43 X 43 FT	95 CD
46 X 46 FT	110 CD
51 X 51 FT	135 CD
60 X 60 FT	185 CD

2 **TYPICAL MOUNTING HEIGHTS FOR WALL-MOUNTED DEVICES**
SCALE: NOT TO SCALE

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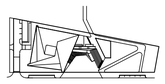

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FIRE ALARM LEGEND, RISER DIAGRAM & DETAILS

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UNITED STATES OLYMPIC MUSEUM
FIRE SPRINKLER SYSTEM

GENERAL DESCRIPTION OF SPRINKLER WORK:

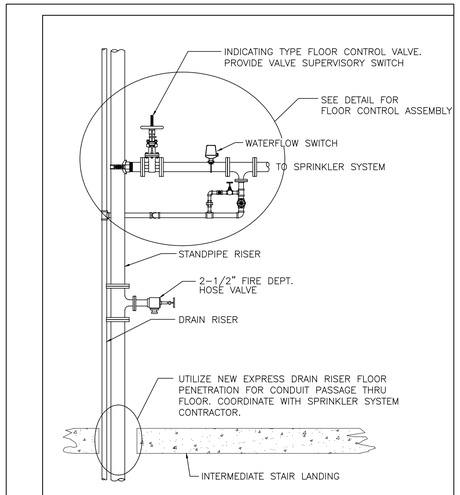
1. The installing contractor shall furnish and install all necessary equipment to provide an automatic fire sprinkler system within the United States Olympic Museum Building located in Colorado Springs, Colorado.

GENERAL SPRINKLER NOTES:

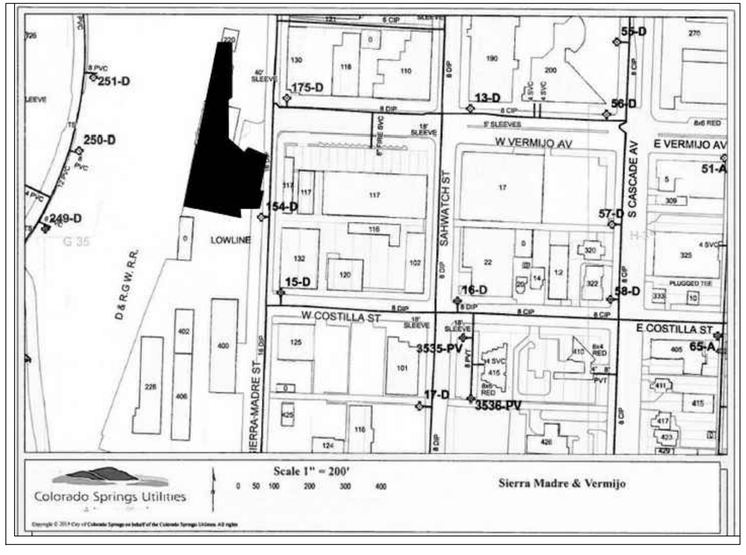
1. All materials and equipment shall be new.
2. Core drill penetrations in concrete floors or walls 1-2 inches larger than the pipe diameter of the penetrating pipe. Pipe penetrations through gypsum wall partitions shall be cut 1 inch larger than the pipe diameter of the penetrating pipe. Contractor to X-ray floor or wall (or use ground penetrating radar) prior to making any core drills to verify the locations of rebar or other materials. All core drilling shall be coordinated with Contractor.
3. All penetrations through fire rated barriers shall be protected with a classified through penetration firestop system. Fire barriers are anticipated to include floor assemblies, exit enclosure assemblies and shaft enclosure assemblies.
4. All automatic sprinkler system installation work to be fully coordinated with the existing utilities and work of other trades involved in this project. No fabrication or installation is allowed without approval.
5. Where pipe is hung below a plaster ceiling or double ceiling, pipe hangers shall penetrate through the ceiling and be attached to the building structure above.

SPRINKLER SYSTEM DESIGN NOTES:

1. Design and install the automatic sprinkler system to meet the requirements of the following codes and standards:
   A. Pikes Peak Regional Building Code, 2011 Edition
   B. NFPA 13, Standard for the Installation of Sprinkler Systems, 2013 Edition
   C. IFC 2009 Automatic Fire Sprinkler Systems Information Packet, Colorado Springs Fire Department, March 2013
2. Light hazard areas shall include, but are not limited to, common use areas, offices, waiting areas and restrooms. Ordinary Hazard Group 1 areas shall include, but are not limited to, IT rooms, housekeeping rooms, utility rooms and storage rooms. Ordinary Hazard 2 areas shall include mechanical rooms, electrical rooms, machine rooms, boiler rooms, water cool chiller rooms, and exterior loading docks.
3. Contractor shall field verify dimensions and routing shown herein. Any discrepancy shall be identified to the design team prior to installation and fabrication.
4. Total sprinkler system water supply demand is based on NFPA 13 for the hydraulically most demanding area. The area/density method is used for all areas of the building.
5. Auxiliary drains are to be provided in accordance with the requirements of NFPA 13.
6. Each component of the sprinkler system shall be listed as a product by the manufacturer under the appropriate category for the intended use by Underwriters Laboratories, Inc. (UL) and shall bear the "UL" label.
7. Each component of the sprinkler systems shall be rated for a maximum working pressure, which exceeds the maximum system pressure at its intended location. All pipe shall be rated for a maximum system working pressure of 175 psi.
8. Ordinary temperature sprinklers shall be installed throughout, except where otherwise required based on environmental conditions as identified in NFPA 13.
9. In all areas with drop or tiled ceilings, sprinklers shall be located in the center of ceiling tile measured in both directions, unless otherwise noted herein.
10. The contractor shall prepare and submit shop drawings, manufacturer's equipment data and hydraulic calculations for the combined sprinkler / standpipe systems. Drawings shall show all components required for working drawings in accordance with NFPA 13. All items of the submittal package shall be provided in one package. Partial submittals will be returned un-reviewed. Submittals shall be approved in writing by the Authority Having Jurisdiction and the Owner prior to starting any installation work.
11. Contractor to coordinate location of all penetrations through concrete assemblies prior to making any core drills.
12. Entire system shall be flushed and hydrostatically tested at 200 psi or 50 psi above maximum working pressure for a minimum of 2 hours as per NFPA 13.
13. Refer to project specifications for additional requirements and information.
14. The components of hanger assemblies that directly attach to the pipe or to the building shall be listed and approved.
15. Where used, concealed cover plates are to be factory painted to match surroundings.
16. Seismic bracing is not required for this project.
17. Provide elevator hoistway sprinklers as required b NFPA 13 with the following exception: No sprinklers are to be provded at the top of the hoistway.
18. Sprinklers shall be provided underneath obstructions such as HVAC ductwork and equipment in accordance with NFPA 13.
19. Location of Fire Department Connection (TBD).



1 **SPRINKLER / STANDPIPE RISER**
SCALE: N.T.S.



Colorado Springs Utilities
It's how we're all connected

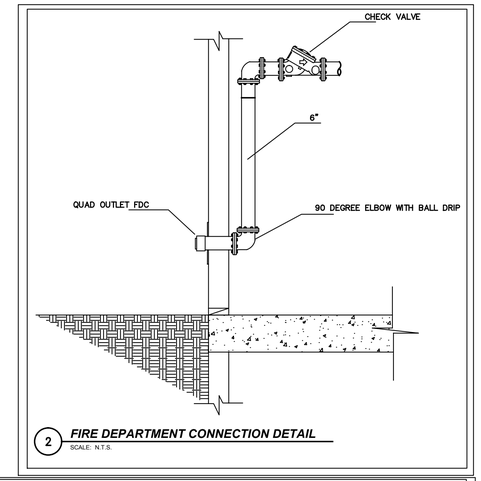
Water Planning and Design

2 Pages with Map

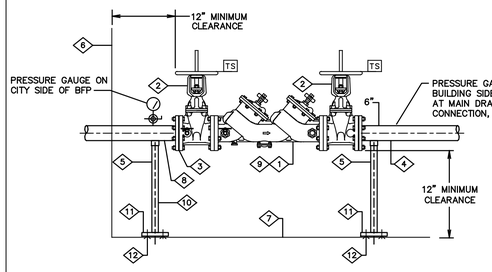
Fire Flow Calculations

Date of Calculation	May 8, 2015
WO#	N/A
Project Location	Sierra Madre & Vermijo
Requester Name	Sean Donohue, Jansen Hughes
FAX#	
Phone#	719-355-5290
Fire Hydrant Location	Hydrant 175-D @ Flange Elevation 5974 Hydrant 15-D @ Flange Elevation 5979 Hydrant 154-D @ Flange Elevation 5978
Map Sheet	G-35
Pressure Zone	Lowline
Flow @ 20 psi Residual	Hydrant 175-D : 2800 GPM (theoretical) Hydrant 15-D : 2700 GPM (theoretical) Hydrant 154-D : 2800 GPM (theoretical)
Overflow Elevation	6225
Static Pressure @ Max Day Demand	105, 102, 103 psi
Data File	Jansen-sierramadre .doc.apm2013.dwg

Per Colorado Springs Fire Department, the calculations provided are acceptable up to 1 year from above date.



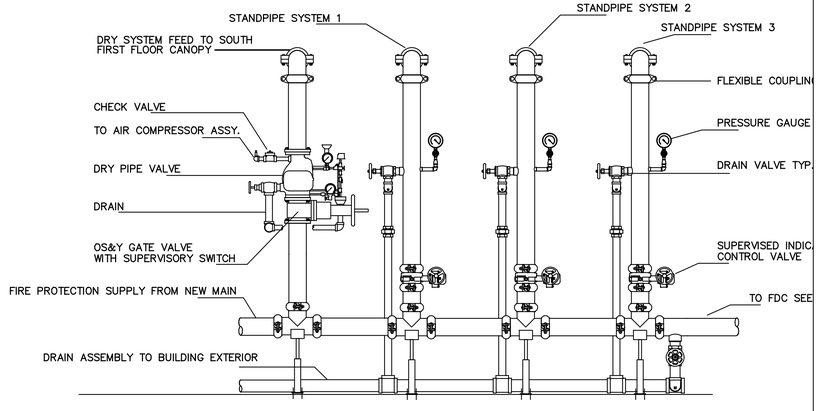
2 **FIRE DEPARTMENT CONNECTION DETAIL**
SCALE: N.T.S.



WORK NOTES FOR DOUBLE CHECK BFP DETAIL:

1. 6", "IN LINE" DOUBLE CHECK BACK FLOW PREVENTER
2. OS&Y GATE VALVE WITH TAMPER SWITCHES ON EACH VALVE. WIRE TO FIRE ALARM SYSTEM.
3. FLANGE ADAPTER.
4. FIRE PROTECTION SUPPLY FROM NEW MAIN.
5. CONTRACTOR TO PROVIDE ADEQUATE SUPPORT AND BRACING FOR NEW DOUBLE CHECK BACK FLOW PREVENTER. SUPPORT WITH UNISTRUT FROM STRUCTURE.
6. FOUNDATION OR BUILDING WALL.
7. FINISHED FLOOR.
8. FIRE PROTECTION SUPPLY FROM NEW MAIN.
9. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
10. PIPE SUPPORT OR PIPE STAND. 1" DIA STEEL PIPE MIN. SET ABSOLUTELY PLUMB (TYPICAL).
11. FLOOR PLATE FOR PIPE STAND.
12. CONCRETE ANCHOR.

3 **HORIZONTAL INSTALLATION - DOUBLE CHECK BACKFLOW PREVENTER DETAIL**
SCALE: N.T.S.



4 **FIRE RISER DIAGRAM WET AND DRY SYSTEMS DETAIL**
SCALE: N.T.S.

US OLYMPIC MUSEUM

OWNER:
United States Oly□pic Museu□
P.O. Box 681
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KEY PLAN

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SD BACKGROUNDS	06.12.2015

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TITLE
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NTS

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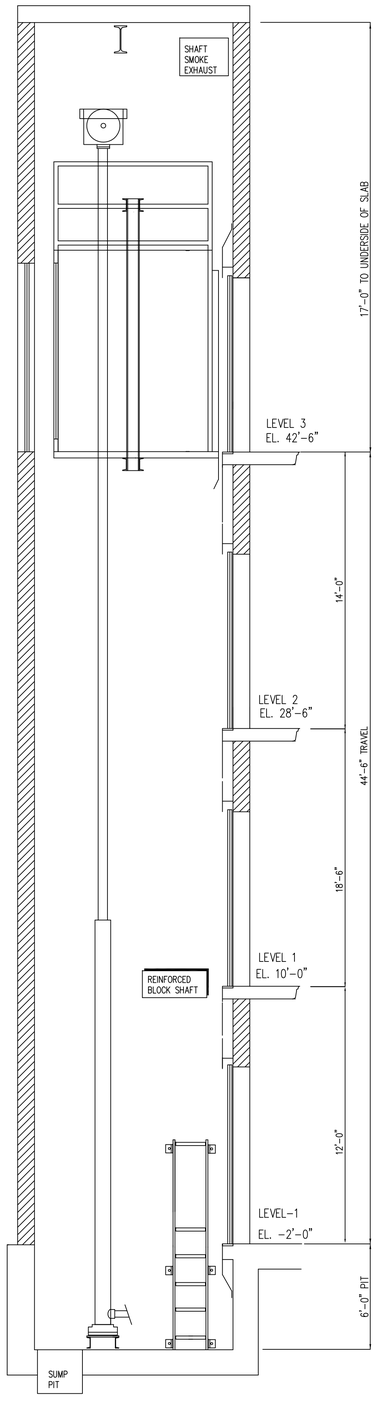
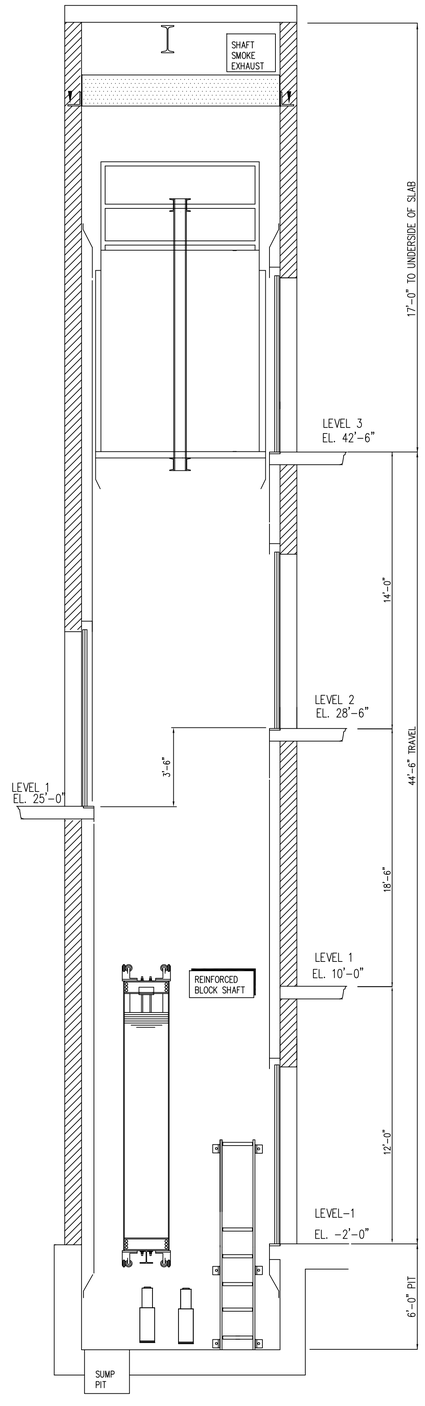


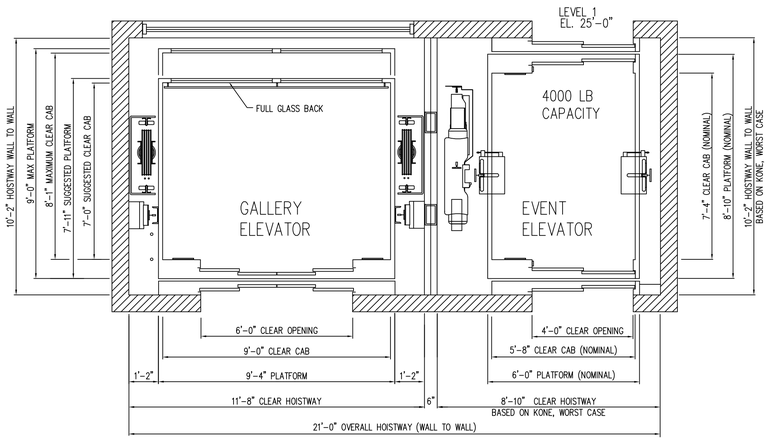
SECTION – GALLERY ELEVATOR (NTS)



SECTION – EVENT ELEVATOR (NTS)

BREIF SPECIFICATIONS	
IDENTIFICATION	GALLERY ELEVATOR
TYPE	PASSENGER– DUAL ROPED HOLELESS HYDRAULIC
CAPACITY	7,000#
SPEED	150 FPM
TRAVEL	44'–6"
FLOORS SERVED / STOPS	4 OPENINGS @ –1, 1, 2, 3,
OPER. / CONTROL	SIMPLEX SELECTIVE COLLECTIVE
POWER UNIT	DRY TYPE, 120 STARTS PER HOUR W OIL COOLERS
HOIST MOTOR	100 HP (APPROXIMATE)
HOIST ROPES	(5– 5/8") EACH SIDE
GOVERNOR (CAR)	HOLLISTER WHITNEY OR APPROVED EQUAL
GOVERNOR ROPE	3/8"
CAR/CWT RAILS	18.5# MINIMUM
CAR SAFETY	HOLLISTER WHITNEY, FLEX OR APPROVED EQUAL
CAR BUFFERS	SPRING TYPE
CAR GUIDE SHOES	ROLLER OR FIXED – ELSCO
HWY ENTRANCE FRAMES	TWO SPEED CENTER OPENING
HANDS FREE TELE.	IN CAR STAT & MACHINE ROOM.
TOP OF CAR STATION	YES
CAR EMERGENCY LIGHTS	YES, IN CAR STATION
DOOR OPERATOR	GAL– MOVFR
DOOR DETECTOR EDGE	INFRARED CURTAIN
CAR STATION	INTEGRAL SWING TYPE
HALL STATION	STAINLESS STEEL FIXTURES
CAR LANTERNS	SAND BLASTED PLEXIGLAS
LOBBY PANEL	CUSTOM (COMBINED FOR ALL ELEVATORS)
CAR FRAME	MINNESOTA, CANTON OR APPROVED EQUAL
PLATFORM	MINNESOTA, CANTON OR APPROVED EQUAL
CAB	TO BE DETERMINED (FULL GLASS BACK)
POWER SUPPLY	VERIFY (460 OR 208)

BREIF SPECIFICATIONS	
IDENTIFICATION	EVENT ELEVATOR
TYPE	PASSENGER
CAPACITY	4,000#
SPEED	200 FPM
TRAVEL	44'–6"
FLOORS SERVED / STOPS	5 OPENINGS, SEE SECTION (FRONT AND REAR)
OPER. / CONTROL	SIMPLEX SELECTIVE COLLECTIVE
MACHINE	GEARLESS MRL
HOIST MOTOR	25 HP APPROXIMATE
DRIVE	A.C. DRIVE
HOIST ROPES / COATED BELTS	PER MANUFACTURERS REQUIREMENTS
GOVERNOR (CAR)	MANUFACTURERS STANDARD (SELF RESSETING)
GOVERNOR ROPE	3/8"
COMPENSATION	NOT REQUIRED
CAR/CWT RAILS	15# / 12#
CAR SAFETY	MANUFACTURERS STANDARD
CAR/CWT BUFFERS	SPRING TYPE, 5" STROKE
CAR GUIDE SHOES	ROLLER 6"
CWT GUIDE SHOES	ROLLER 3"
HWY ENTRANCE FRAMES	TWO SPEED SIDE OPENING
HANDS FREE TELE.	IN CAR STAT & MACHINE ROOM.
TOP OF CAR STATION	YES
CAR EMERGENCY LIGHTS	YES, IN CAR STATION
DOOR OPERATOR	GAL– MOVFR OR APPROVED EQUAL
DOOR DETECTOR EDGE	INFRARED CURTAIN
CAR STATION	INTEGRAL SWING TYPE
HALL STATION	STAINLESS STEEL FIXTURES
CAR LANTERNS	SAND BLASTED PLEXIGLAS
LOBBY PANEL	CUSTOM (COMBINED FOR ALL ELEVATORS)
CAR FRAME	MANUFACTURERS STANDARD
PLATFORM	MANUFACTURERS STANDARD
CAB	TO BE DETERMINED – CUSTOM
POWER SUPPLY	VERIFY (460 OR 208)



HOISTWAY PLAN

US OLYMPIC MUSEUM

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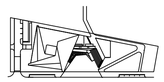
KEY PLAN



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SD BACKGROUNDS	06.12.2015
SD BACKGROUNDS-REV1	06.24.2015
SD 100%	07.10.2015

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14011

TITLE
GALLERY & EVENT ELEVATORS

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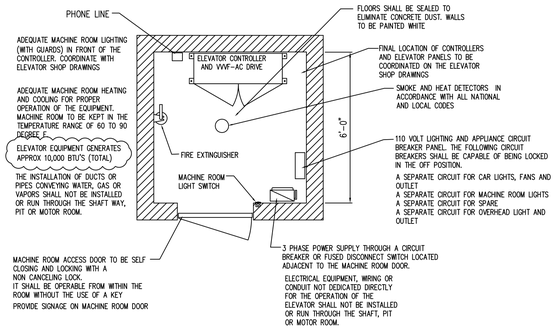
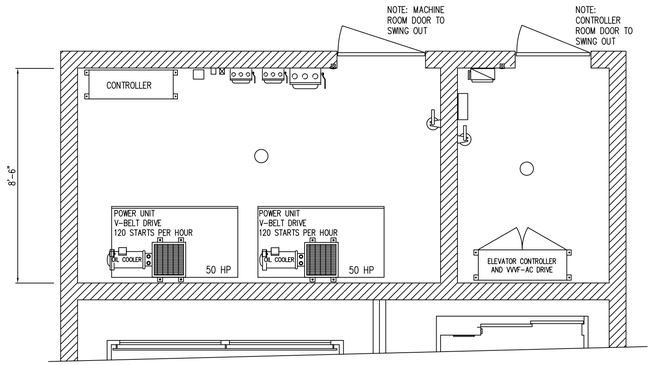
WHEN EMERGENCY POWER IS PROVIDED TO RUN THE ELEVATORS, TRANSFER SIGNALS SHALL BE AVAILABLE FOR THE ELEVATOR CONTROLLER TO IDENTIFY THAT TRANSFER TO EMERGENCY POWER HAS OCCURRED AND ANOTHER SIGNAL PRIOR TO TRANSFER BACK TO NORMAL POWER. PROVIDE DRY, NO/NC CONTACTS IN THE ELEVATOR MACHINE ROOMS ADJACENT TO THE ELEVATOR CONTROLLERS TO ACCESS THESE SIGNALS.

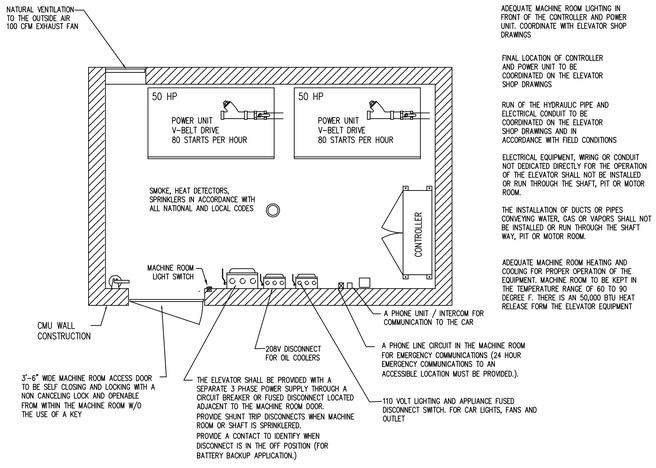


MRL CONTROLLER ROOM – TYPICAL NOTES



MACHINE ROOM PLAN

LOCATED ON THE -1 LEVEL. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONS AND CONFIGURATION



ADEQUATE MACHINE ROOM LIGHTING IN FRONT OF THE CONTROLLER AND POWER UNIT. COORDINATE WITH ELEVATOR SHOP DRAWINGS

FINAL LOCATION OF CONTROLLER AND POWER UNIT TO BE COORDINATED ON THE ELEVATOR SHOP DRAWINGS

RUN OF THE HYDRAULIC PIPE AND ELECTRICAL CONDUIT TO BE COORDINATED ON THE ELEVATOR SHOP DRAWINGS AND IN ACCORDANCE WITH FIELD CONDITIONS

ELECTRICAL EQUIPMENT, WIRING OR CONDUIT NOT DEDICATED DIRECTLY FOR THE OPERATION OF THE ELEVATOR SHALL NOT BE INSTALLED OR RUN THROUGH THE SHAFT, PIT OR MOTOR ROOM.

THE INSTALLATION OF DUCTS OR PIPES CONVEYING WATER, GAS OR VAPORS SHALL NOT BE INSTALLED OR RUN THROUGH THE SHAFT WAY, PIT OR MOTOR ROOM.

ADEQUATE MACHINE ROOM HEATING AND COOLING FOR PROPER OPERATION OF THE EQUIPMENT. MACHINE ROOM TO BE KEPT IN THE TEMPERATURE RANGE OF 60 TO 90 DEGREE F. THERE IS AN 50,000 BTU HEAT RELEASE FORM THE ELEVATOR EQUIPMENT

HYDRAULIC MACHINE ROOM – TYPICAL NOTES

US OLYMPIC MUSEUM

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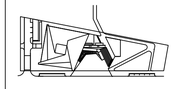

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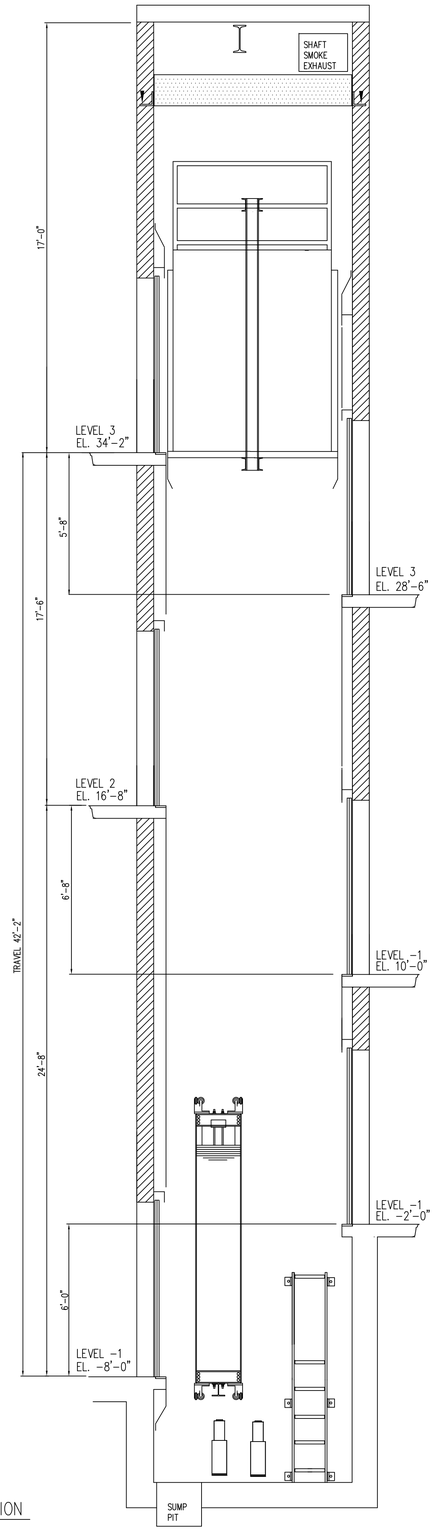
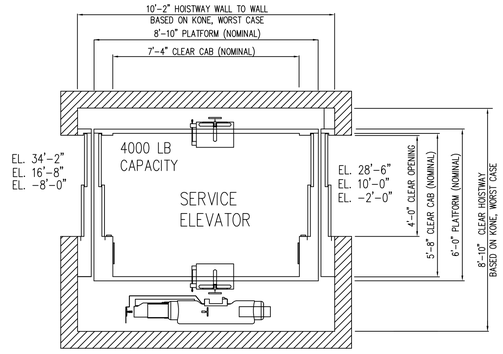


SECTION



HOISTWAY PLAN

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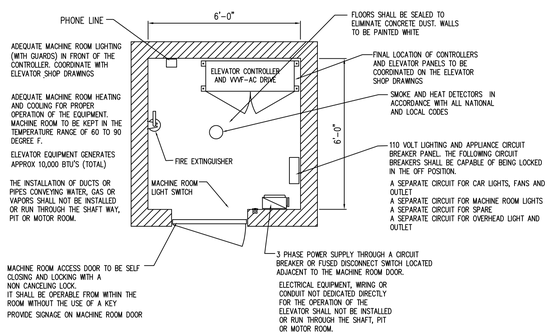

CONTROLLER ROOM – SERVICE ELEVATOR

BREIF SPECIFICATIONS	
IDENTIFICATION	EVENT ELEVATOR
TYPE	PASSENGER
CAPACITY	4,000#
SPEED	200 FPM
TRAVEL	42'-2"
FLOORS SERVED / STOPS	6 OPENINGS – SEE SECTION (FRONT AND REAR)
OPER. / CONTROL	SIMPLEX SELECTIVE COLLECTIVE
MACHINE	GEARLESS MRL
HOIST MOTOR	25 HP APPROXIMATE
DRIVE	A.C. DRIVE
HOIST ROPES / COATED BELTS	PER MANUFACTURERS REQUIREMENTS
GOVERNOR (CAR)	MANUFACTURERS STANDARD (SELF RESSETING)
GOVERNOR ROPE	3/8"
COMPENSATION	NOT REQUIRED
CAR/CWT RAILS	15# / 12#
CAR SAFETY	MANUFACTURERS STANDARD
CAR/CWT BUFFERS	SPRING 5" STROKE
CAR GUIDE SHOES	ROLLER 6"
CWT GUIDE SHOES	ROLLER 3"
HWY ENTRANCE FRAMES	TWO SPEED SIDE OPENING
HANDS FREE TELE.	IN CAR STAT & MACHINE ROOM.
TOP OF CAR STATION	YES
CAR EMERGENCY LIGHTS	YES, IN CAR STATION
DOOR OPERATOR	GAL– MOVFR OR APPROVED EQUAL
DOOR DETECTOR EDGE	INFRARED CURTAIN
CAR STATION	INTEGRAL SWING TYPE
HALL STATION	STAINLESS STEEL FIXTURES
CAR LANTERNS	SAND BLASTED PLEXIGLAS
LOBBY PANEL	CUSTOM (COMBINED FOR ALL ELEVATORS)
CAR FRAME	MANUFACTURERS STANDARD
PLATFORM	MANUFACTURERS STANDARD
CAB	TO BE DETERMINED – MANUF. STANDARD HIGH END
POWER SUPPLY	VERIFY (460 OR 208)

US OLYMPIC MUSEUM

OWNER:
United States Olympic Museum
P.O. Box 681
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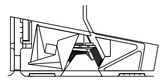
KEY PLAN



PRINTING	DATE
SD BACKGROUNDS	06.12.2015
SD BACKGROUNDS-REV1	06.24.2015
SD 100%	07.10.2015

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PROJECT NUMBER
14011

TITLE

SERVICE ELEVATOR

DRAWING NO.
VT-102.00

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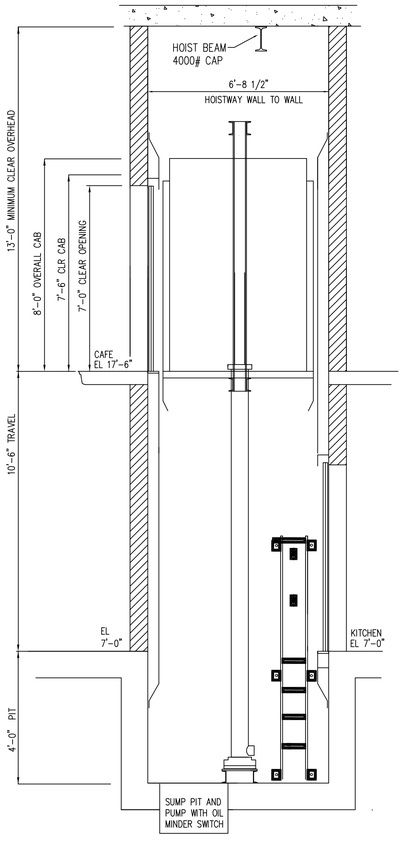

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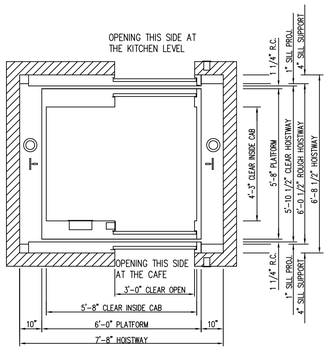
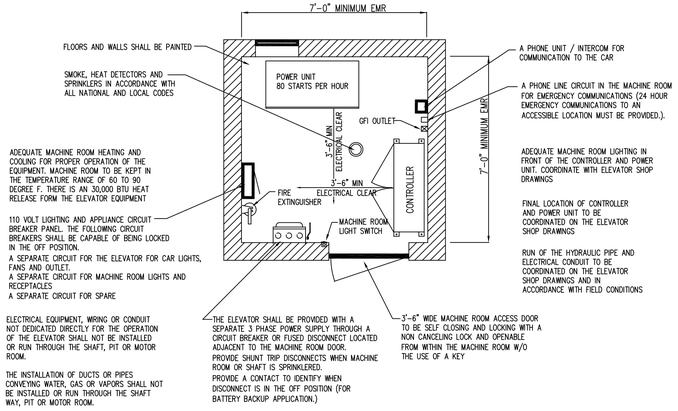


HOISTWAY PLAN



MACHINE ROOM PLAN

BREIF SPECIFICATIONS	
IDENTIFICATION	KITCHEN ELEVATOR
TYPE	PASSENGER– HOLELESS HYDRAULIC
CAPACITY	2,000#
SPEED	100 FPM
TRAVEL	10'–6"
FLOORS SERVED / STOPS	1, 2,
OPER. / CONTROL	TWO STOP COLLECTIVE
POWER UNIT	SUBMERSIBLE TYPE, 80 STARTS PER HOUR
HOIST MOTOR	30 HP (APPROXIMATE)
CAR/CWT RAILS	15# MINIMUM
CAR BUFFERS	SPRING TYPE
CAR GUIDE SHOES	ROLLER OR FIXED – ELSCO
HWY ENTRANCE FRAMES	SINGLE SPEED SIDE OPENING
HANDS FREE TELE.	IN CAR STAT & MACHINE ROOM.
TOP OF CAR STATION	YES
CAR EMERGENCY LIGHTS	YES, IN CAR STATION
DOOR OPERATOR	GAL– MOVFR OR APPROVED EQUAL
DOOR DETECTOR EDGE	INFRARED CURTAIN
CAR STATION	INTEGRAL SWING TYPE
HALL STATION	STAINLESS STEEL FIXTURES
CAR LANTERNS	SAND BLASTED PLEXIGLAS
LOBBY PANEL	CUSTOM (COMBINED FOR ALL ELEVATORS)
CAR FRAME	MINNESOTA, CANTON OR APPROVED EQUAL
PLATFORM	MINNESOTA, CANTON OR APPROVED EQUAL
CAB	TO BE DETERMINED – MANUF. STANDARD HIGH END
POWER SUPPLY	VERIFY (460 OR 208)

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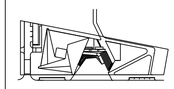

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TITLE

KITCHEN ELEVATOR

DRAWING NO.

VT-103.00

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