

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"
	Level 1 Plan (Ground Floor)	1/16" = 1'-0"
	Level 1 Mezzanine Plan	1/16" = 1'-0"
	Level 2 Plan	1/16" = 1'-0"
	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"
	Level 1 Plan Mezzanine	1/16" = 1'-0"
	Level 2 Plan Lower Exhibit	1/16" = 1'-0"
	Level 3 Plan Upper Exhibit	1/16" = 1'-0"
	Roof Plan	1/16" = 1'-0"
A-104		
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"
	Exhibit Plans	1/8" = 1'-0"
AO-103	Exhibit Flans	1/0 - 1-0
	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	
	HVAC Schedules	-
	TITAL CONTOCUENCY	
E-001	Floring Logand	_
	Electrical Legend	-
E-100	Basement Plan	1/16" = 1'-0"
E-101	Ground Floor Plan	1/16" = 1'-0"
	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	NITO
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

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

EXECUTIVE ARCHITECT:
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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



PRINTING DATE
100% SCHEMATIC DESIGN 07.10

NOT FOR CONSTRUCTION

STAMP

RAWN BY CHECK BY

PROJECT NUMBER

TITLE COVER SHEET

G-000

ACST

ACR

ADD

ADH

ADJ

AFF

BSMT

BUR

CAB

CFM

CIPC

CLO

CLR

CMU

CTR

CO

COL

COMP

CONST

CONC

CONT

CONTR

COORD

CORR

CPT

CT

CSNK

CW

DEMO

DISP

DTL

DWG

ELEV

ELEC

ENC

ENT

EQ

EQP

EWC

EXH

EXP

EXPN

EXIST, EX

CORRUG

CONSTRUCTION

CONTRACT (OR)

COORDINATE

CORRUGATED

CARPET (ED)

CERAMIC TILE

COLD WATER

DOUBLE

DIAMETER

DIMENSION

DAMPPROOFING

DOWNSPOUT

DISPOSAL

DOWN

DEEP

DOOR

DETAIL

EACH

EXPANSION JOINT

ELEVATION

ENTRANCE

EQUIPMENT

EXHAUST

EXISTING

EXPOSED

EXPANSION

EXTERIOR

EQUAL

ELECTRIC (AL)

ENCLOSE (URE)

ELECTRIC WATER COOLER

DRAWING

CORRIDOR

CONTINUOUS OR CONTINUE

COUNTERSINK/COUNTERSUNK

DEMOLISH, DEMOLITION

DRINKING FOUNTAIN

CONCRETE

ADJST

US OLYMPIC MUSEUM

601 West 26 Street-1815

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40 WORTH STREET, SUITE 703 New York, New York 10013 212.675.7760 LANDSCAPE ARCHITECTS:

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TILLOTSON

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619 N. CASCADE AVE., SUITE 200 COLORADO SPRINGS, COLORADO 80903 719.471.0073 CODE
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LAKEWOOD, CO 80235 720.981.4150

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CIVIL KIOWA 1604 S. 21ST STREET T: 719.630.7342

FIRE PROTECTION ENGINEER / SMOKE CONTROL JENSEN HUGHES 4445 NORTHPARK DRIVE, SUITE 204 COLORADO SPRINGS, COLORADO 80907 T: 720.441.6608

100% SCHEMATIC DESIGN 07.10.2015

NOT FOR CONSTRUCTION

PROJECT NUMBER

ABBREVIATIONS, SYMBOLS LEGEND

G-001

GRAPHIC SYMBOLS



BUILDING SECTION SYMBOL: UPPER=THE SECTION NUMBER LOWER=THE SHEET WHERE DRAWN



CABINET TYPE SYMBOL:

UPPER=CABINET STYLE

LOWER=CABINET SIZE IN INCHES



WALL SECTION SYMBOL: UPPER=THE SECTION NUMBER



LOWER=THE SHEET WHERE DRAWN DETAIL SYMBOL:

UPPER=THE SECTION NUMBER



LOWER=THE SHEET WHERE DRAWN **EQUIPMENT TYPE INDICATOR:**



LETTER= GROUP FUNCTION NUMBER= ITEM NUMBER

TA= TOILET ACCESSORY

NUMBER= ITEM NUMBER



EXTERIOR ELEVATION SYMBOL: UPPER=THE ELEVATION NUMBER

LOWER=THE SHEET WHERE DRAWN

TOILET ACCESSORY INDICATOR:







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



MATCHLINE FLAG

HEIGHT INDICATOR



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).



WALL TYPE INDICATOR: REFER

WALL TYPE ASSEMBLY.

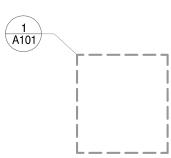


WINDOW OR LOUVER TYPE INDICATOR: WINDOWS HAVE A NUMBER DESIGNATION LOUVERS HAVE A LETTER DESIGNATION



WORK NOTE INDICATOR

CEILING HEIGHT ABOVE FLOOR



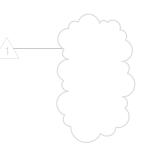
DETAIL IDENTIFICATION: DASHED LINE INDICATES EXTENT OF ENLARGED PLAN OR DETAIL



ROOM IDENTIFICATION:



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.)



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

DISCIPLINE INDEX

A ARCHITECTURAL DRAWINGS CIVIL OR SURVEY DRAWINGS

ELECTRICAL DRAWINGS LANDSCAPE DRAWINGS

MECHANICAL DRAWINGS

GENERAL INFORMATION PLUMBING DRAWINGS

STRUCTURAL DRAWINGS

TECHNOLOGY DRAWINGS

CONTENT INDEX

GENERAL INFORMATION AND STANDARDS

FINISH AND ROOF DRAWINGS EXTERIOR ELEVATIONS AND BUILDING SECTIONS

PLANS INCLUDING SITE, FLOOR, CEILING,

ENLARGED FLOOR PLANS AND INTERIOR ELEVATIONS

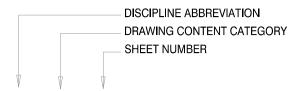
SCHEDULES AND ASSOCIATED DETAILS

WALL SECTIONS AND DETAILS

SUPPLEMENTAL DRAWINGS

8 SUPPLEMENTAL DRAWINGS

SHEET NUMBERING



MATERIAL PATTERNS

BATT INSULATION

CAST-IN-PLACE CONCRETE

CONCRETE BLOCK

EARTH OR BACKFILL

STEEL

PLASTER & GYPSUM BOARD

PLYWOOD

PRECAST CONCRETE

RIGID INSULATION

AND

TEXT SYMBOLS

POUND OR NUMBER

/ OR:

(X) FEET

(X) INCHES

VICINITY MAP



Colora o Springs E Pikes Peak Ave

USOM

DRAWN BY CHECK BY

AND MAPS

FIRE RESISTIVE ABOVE FINISHED FLOOR PSF POUNDS PER SQUARE FOOT FOOT, FEET AIR HANDLING UNIT POUNDS PER SQUARE INCH FTG FOOTING ALUMINUM PTN PARTITION POLYVINYL CHLORIDE

FURNISHED BY OWNER

FIRE EXTINGUISHER

FIRE EXTINGUISHER CABINET

FLOOR DRAIN

FINISH(ED)

FLOOR (ING)

FOUNDATION

FACE OF STUD

PAR

PC

PERP

PLAM

PLBG

PNT

PRN

PARALLEL

PLATE

PLUMBING

PAINT(ED)

PORCELAIN

PAVEMENT

PLYWOOD

QUANTITY

RADIUS

ROOF DRAIN

REINFORCING

REQUIRE (D)

STRUCTURAL

SUSPENDED

SYMMETRICAL

REMOVE

ROOM

RESILIENT BASE

RESISTANCE, THERMAL, RISER

REFLECTED CEILING PLAN

REFERENCE, REFER TO

PRECAST CONCRETE

PERPENDICULAR

PLASTIC LAMINATE

ALUM **FUTURE** PVC ALTERNATE ANOD ANODIZED PVMT ACOUSTICAL CEILING TILE APC PWD GAUGE, GAGE APPROX APPROXIMATE (LY) ARCH GALVANIZED QTY ARCHITECT(URAL) GALV ASPH ASPHALT GYPSUM BOARD AUTO AUTOMATIC GBAR GRAB BAR GENERAL CONTRACT (OR) GLASS, GLAZING RAD

FEX

FLR(G)

FND

FOS

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

AIR CONDITIONING

ACOUSTIC

ACRYLIC

AREA DRAIN

ADDENDUM

ADJACENT

ADJUSTABLE

ADHESIVE

BOARD GRILLE RCP BTWN BETWEEN BLDG BUILDING BLK(G) BLOCK (ING) HOSE BIB BEAM HOLLOW CORE REM BY OTHERS HCAP REQ HANDICAPPED HDW BOTTOM HARDWARE RO BACKER ROD **HOLLOW METAL** HOR HORIZONTAL BEARING ROW BRICK

ROUGH OPENING RIGHT OF WAY HIGH POINT RESTROOM HOUR BOTH SIDES BASEMENT HEIGHT HTR HEATER **BUILT UP ROOFING** SBLK SPLASH BLOCK HVAC HEATING/VENTILATION/AC SOLID CORE HOT WATER SCHEDULE CABINET HOT WATER HEATER SD STORM DRAIN CUBIC FEET/MINUTE SECTION CORNER GUARD SHEET CAST-IN-PLACE CONCRETE SHEATHING INSIDE DIAMETER **CONTROL JOINT** INCH(ES) SIMILAR SOG INCANDESCENT INCAN SLAB ON GRADE CENTERLINE INCL INCLUDE (D), (ING) SPEC SPECIFICATION (S) CEILING INFO INFORMATION CLOSET SPECIAL INSULATE (D), (ION) SQUARE CLEAR (ANCE) SST STAINLESS STEEL CONCRETE MASONRY UNIT INTERIOR INVERT STC SOUND TRANSMISSION CLASS CENTER STD STANDARD CLEANOUT STL STEEL JOINT COLUMN STO STORAGE COMPRESS(ED, ION, IBLE, OR)

LABORATORY

LAMINATE (D)

LAVATORY

OVERALL

OBSCURE

OVERHEAD

OPENING

OPPOSITE

OUNCE

INSTALLED

OPG

OPH

OPP

ORD

ΟZ

OFCI

ON CENTER (S)

OUTSIDE DIAMETER

OPPOSITE HAND

OVERFLOW ROOF DRAIN

OWNER FURNISHED CONTRACTOR

POUND(S) LIBRARY LINEAL TREAD TOP AND BOTTOM TONGUE AND GROOVE LIGHT TELEPHONE TEMPERATURE MAINTAIN (ENANCE) THICK (NESS) MASONRY MAS THRESHOLD MAXIMUM THROUGH MECHANICAL CONTRACTOR TOP OF MECH MECHANIC (AL) TOP OF BEAM METAL TOP OF CURB TOC MANUFACTURE (ER) TOI TOP OF INSULATION MANHOLE TOP TOP OF PARAPET MINIMUM TOP OF MASONRY MIRROR TOS TOP OF SLAB MISCELLANEOUS TOSTL TOP OF STEEL MASONRY OPENING TOW TOP OF WALL MOISTURE RESISTANT TPD TOILET PAPER DISPENSER MOUNT (ED), (ING) **TPART** TOILET PARTITION MATERIAL (S) TRANSOM TUBE STEEL **TELEVISION** NOT APPLICABLE TYPICAL NOT IN CONTRACT

STRUC

SUS

SYM

TZ TERRAZZO NUMBER NOM NOMINAL NONE REQUIRED UNDERWRITERS LABORATORY UL NOISE REDUCTION COEFFICIENT UNFINISHED UNFIN NOT TO SCALE UON UNLESS OTHERWISE NOTED UR URINAL

VERT

VEST

VARIABLE (VARIES) VAPOR BARRIER VINYL COMPOSITION TILE VERTICAL VESTIBULE VERIFY IN FIELD

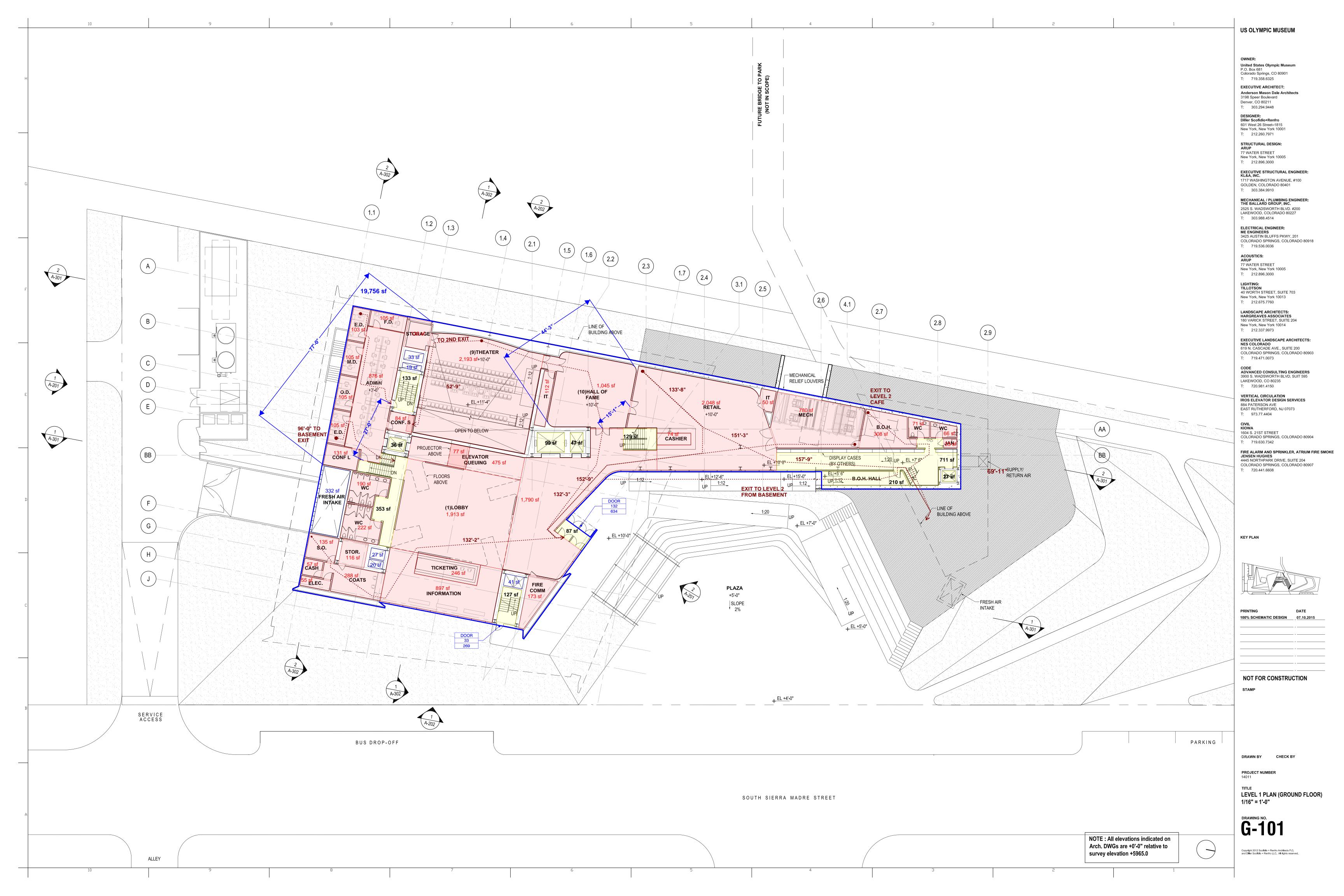
WIDE OR WIDTH WITH WITHOUT

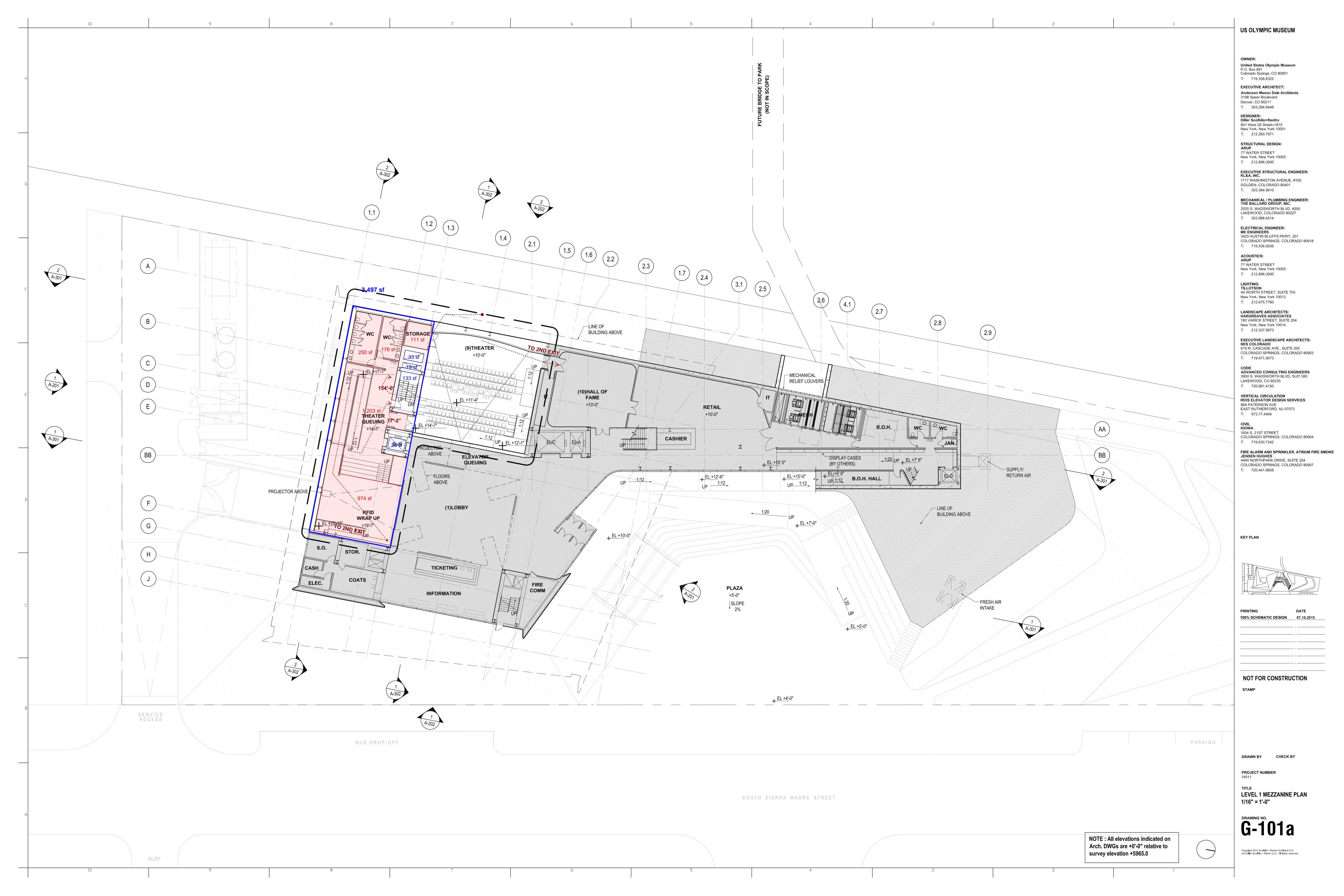
WATER CLOSET WOOD WATERPROOF (ING) WATER RESISTANT

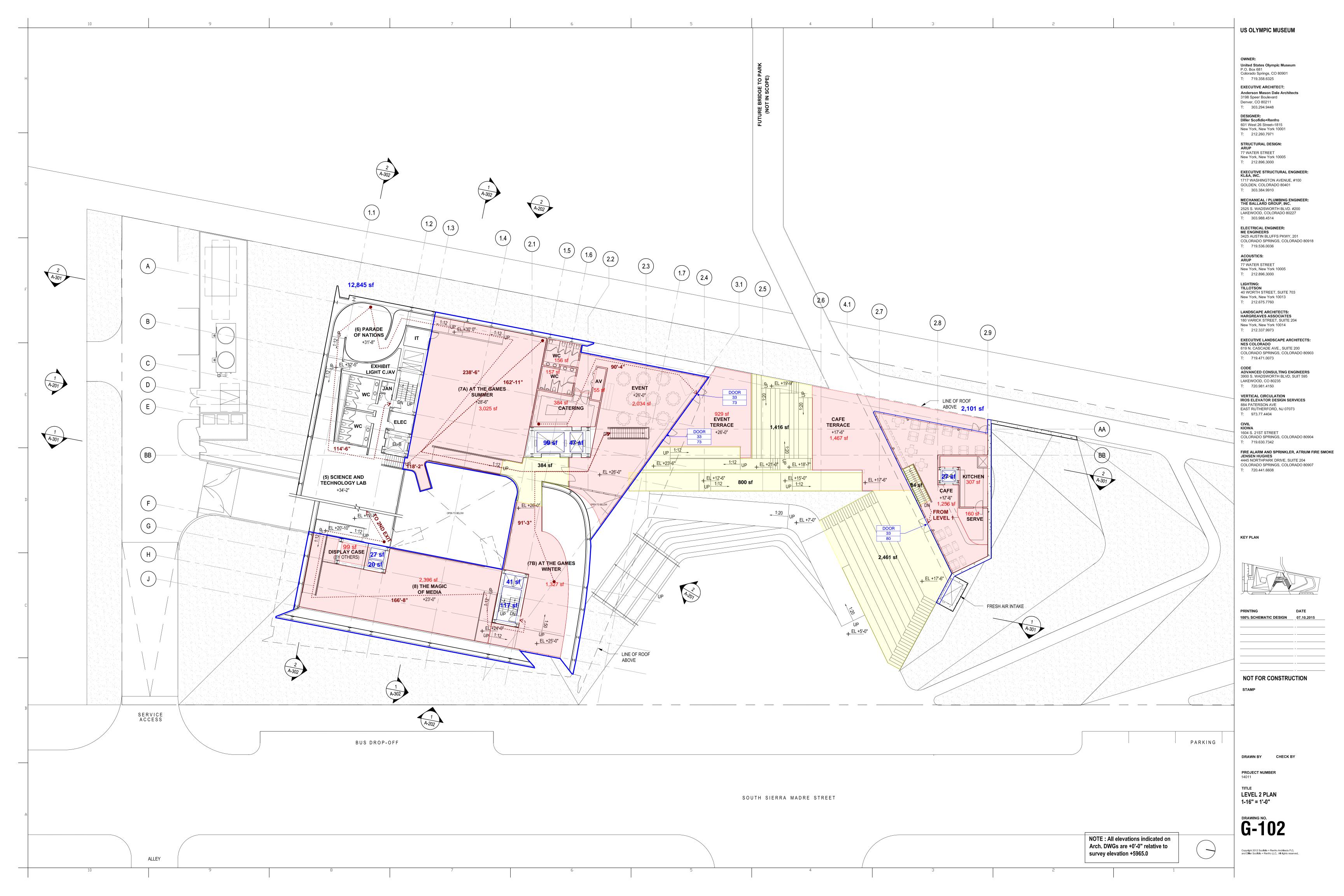
WELDED WIRE FABRIC

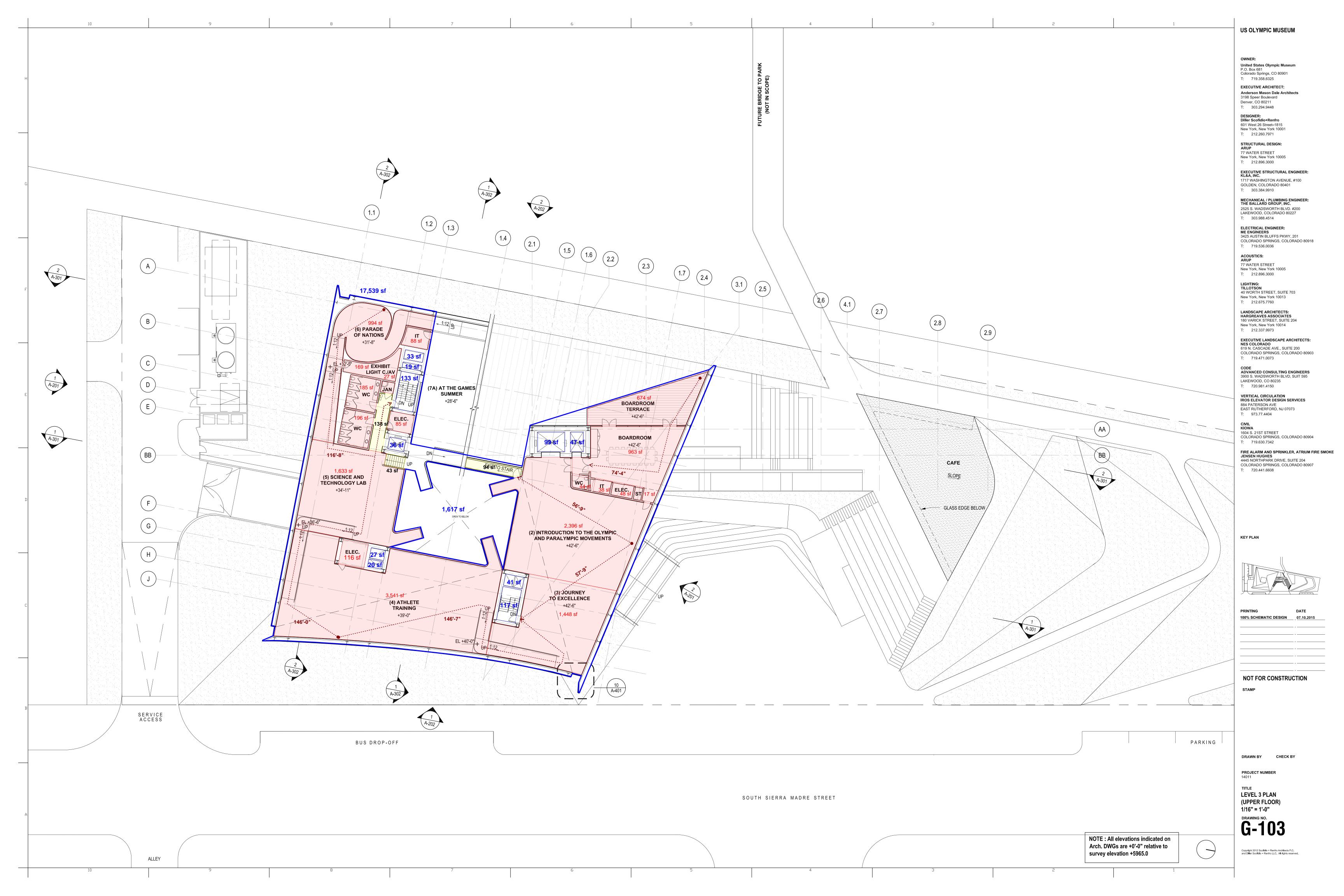
DOCUMENT NUMBER

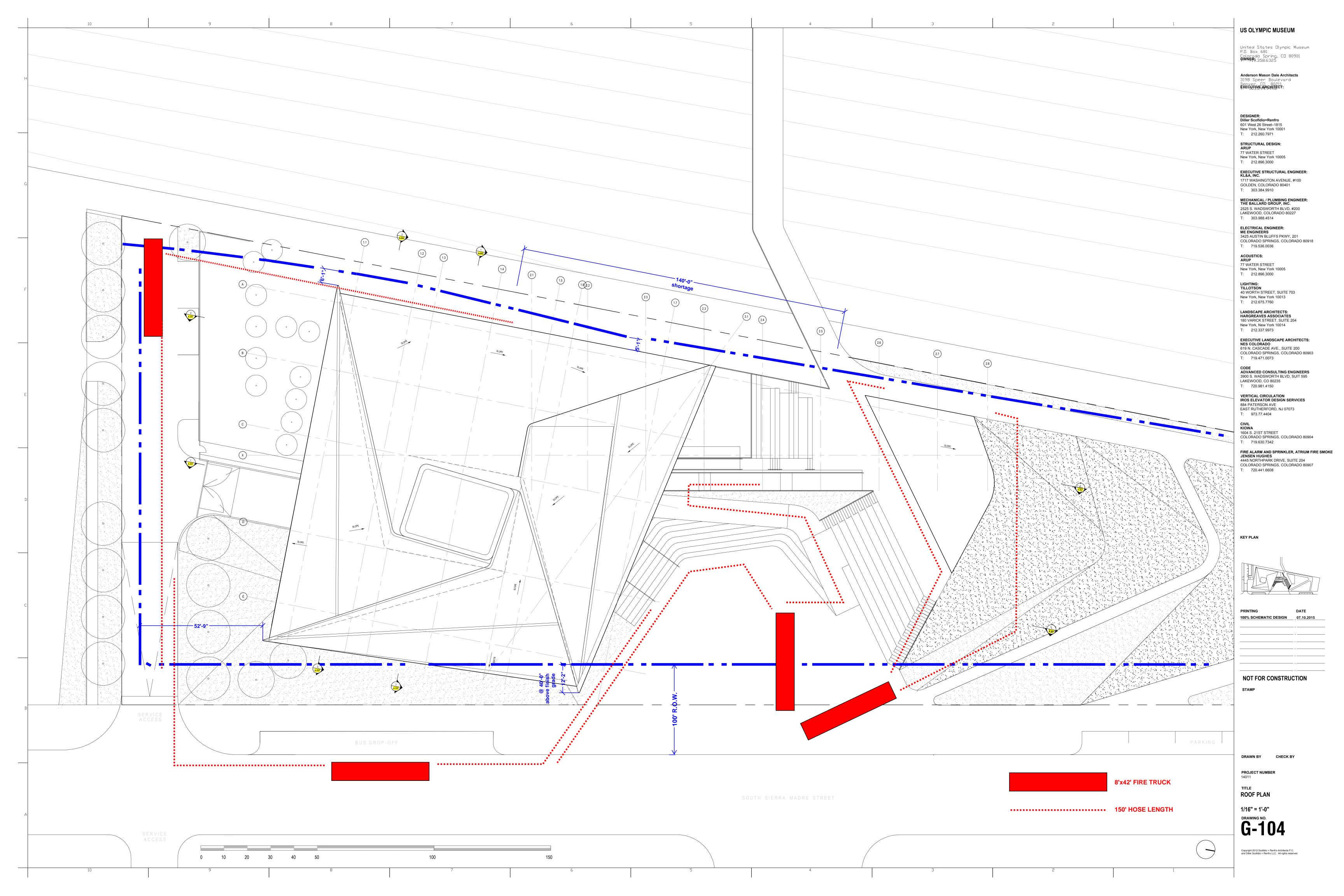


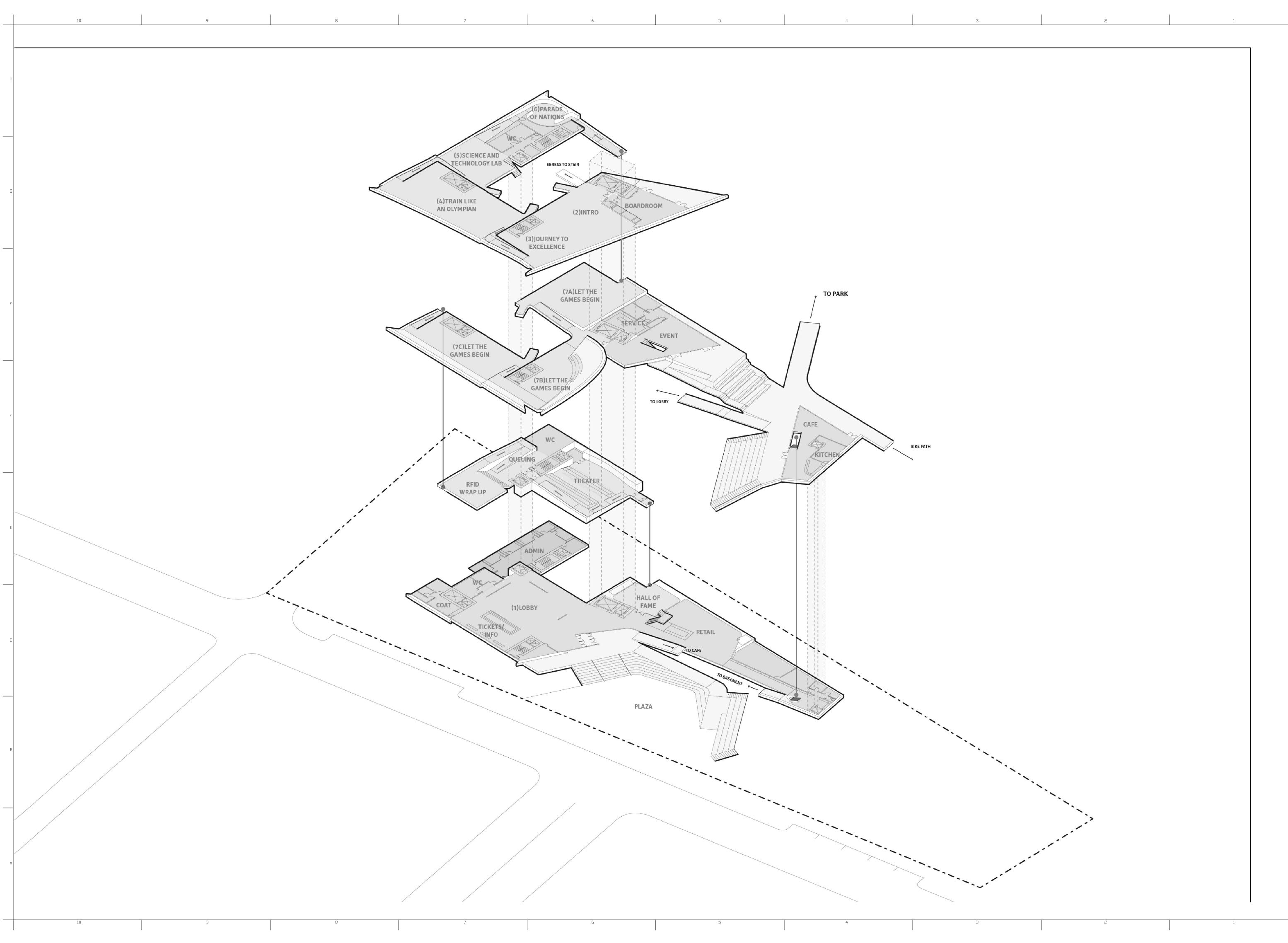












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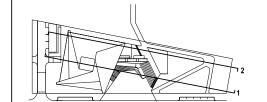
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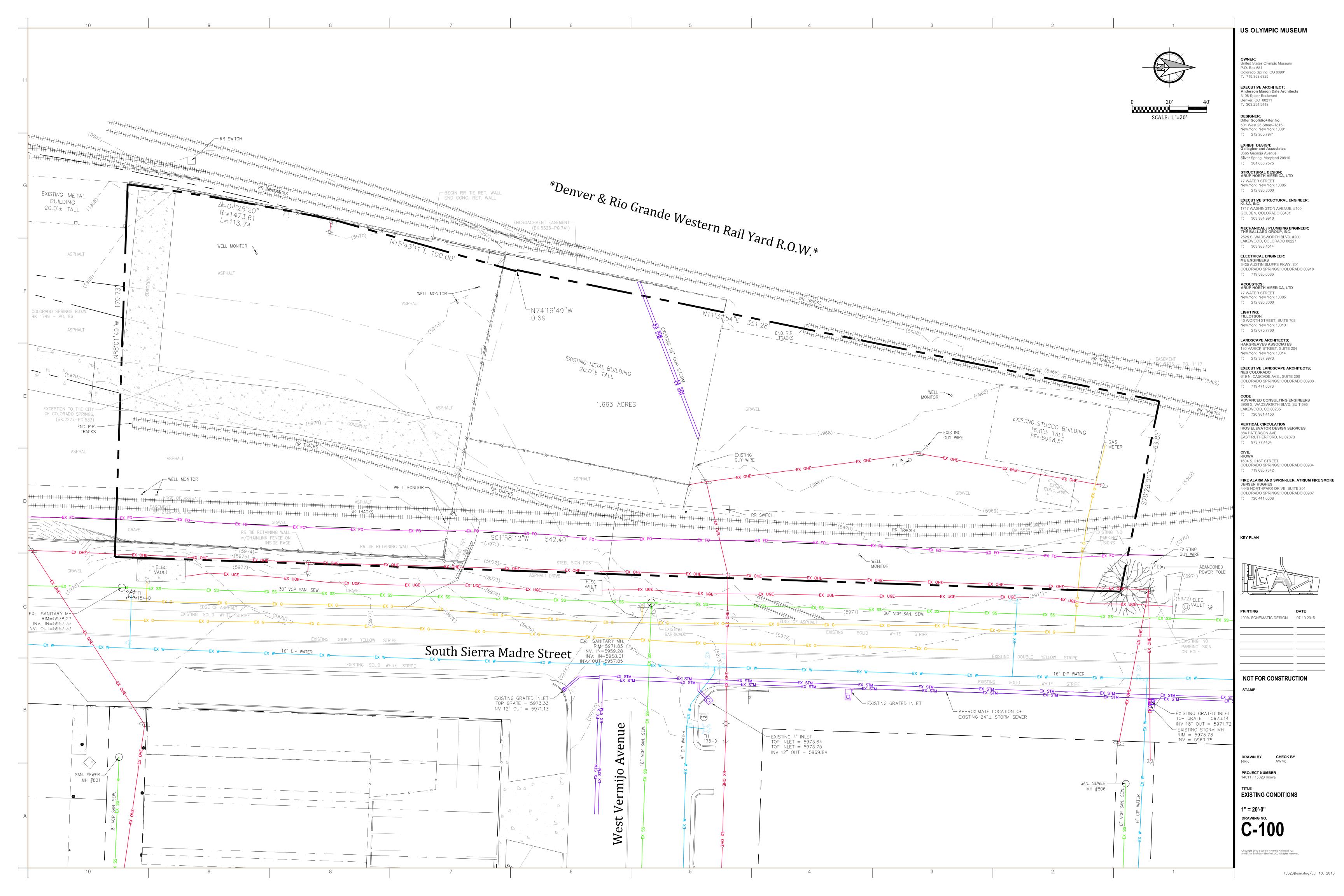
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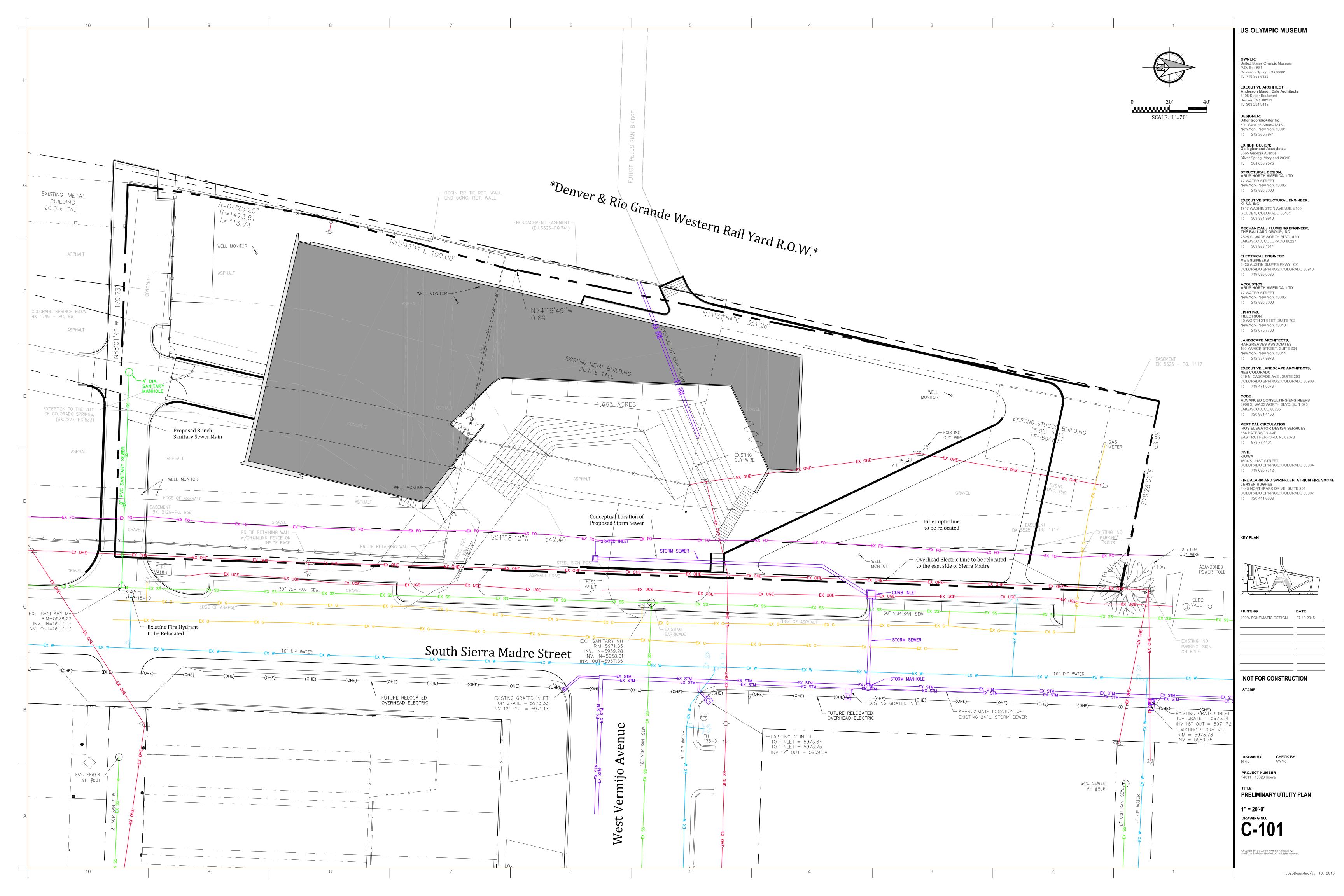


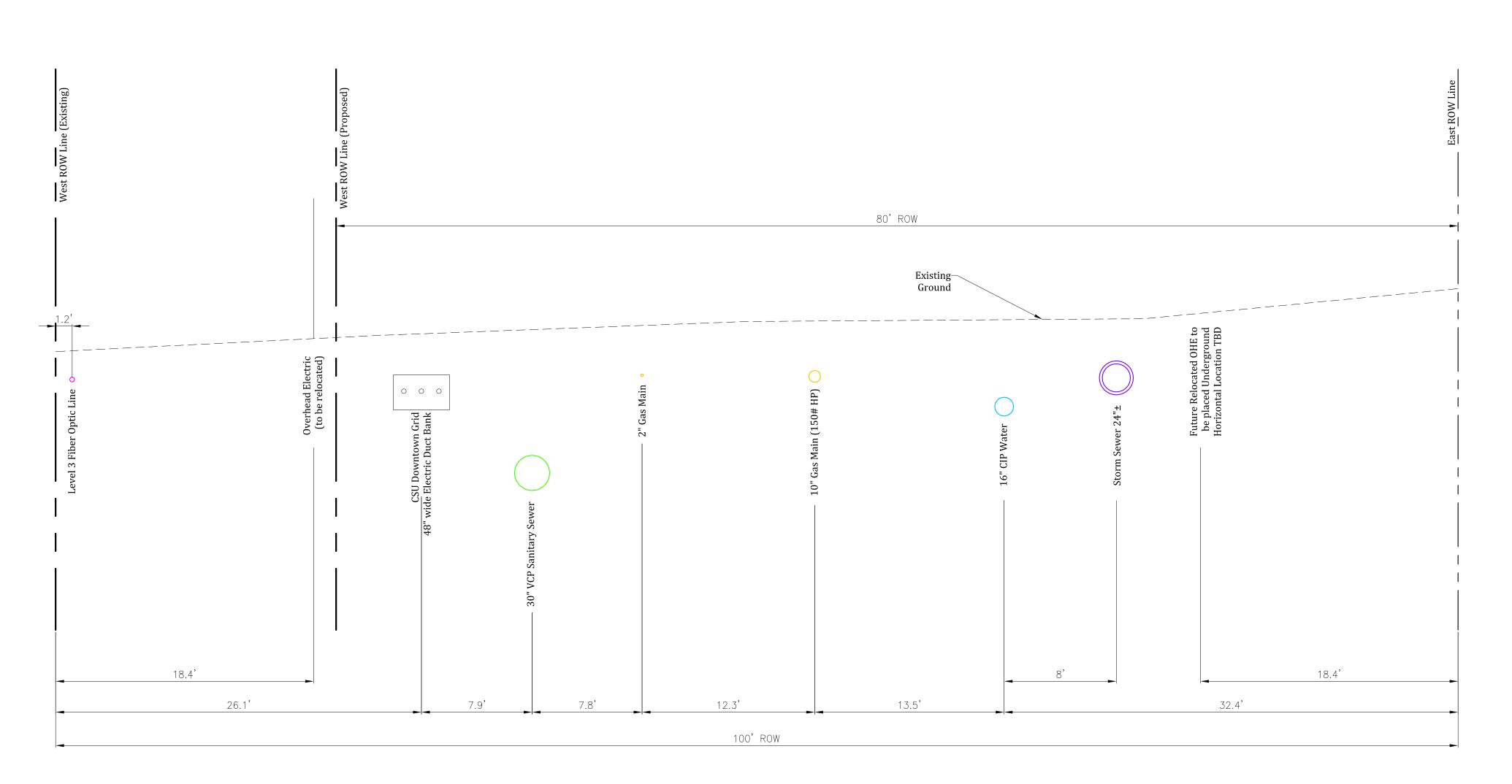
NOT FOR CONSTRUCTION

PROJECT NUMBER

EXPLODED AXONOMETRIC







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

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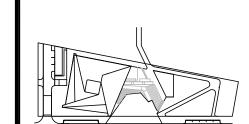
T: 719.630.7342

FIRE ALARM AND SPRINKLER, ATRIUM FIRE JENSEN HUGHES

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KEY PLAN



PRINTING DATE

100% SCHEMATIC DESIGN 07.10.2015

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STAMP

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NRK AWM
PROJECT NUMBER

TITLE
PROFILE SECTION

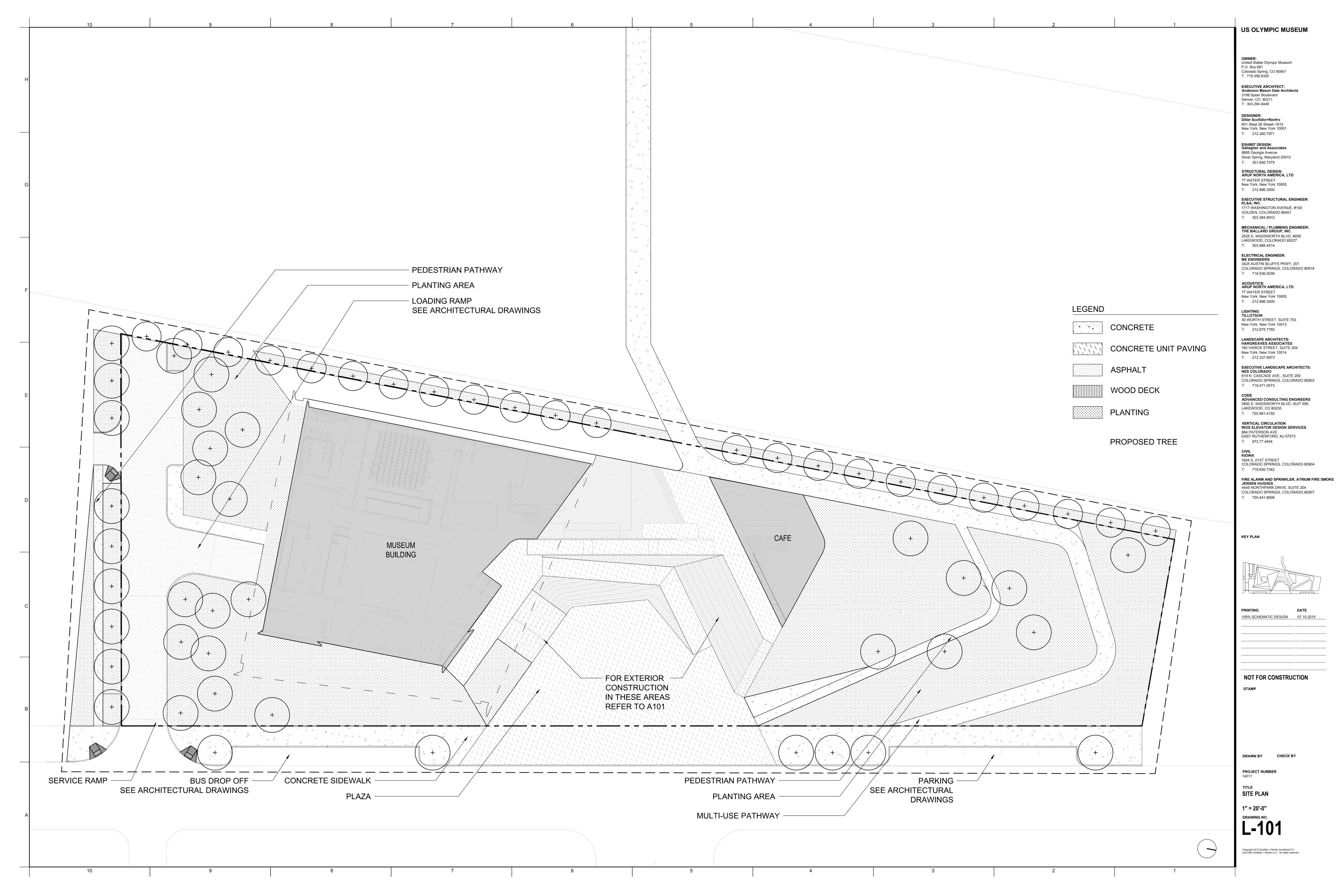
1" = 5'-0"

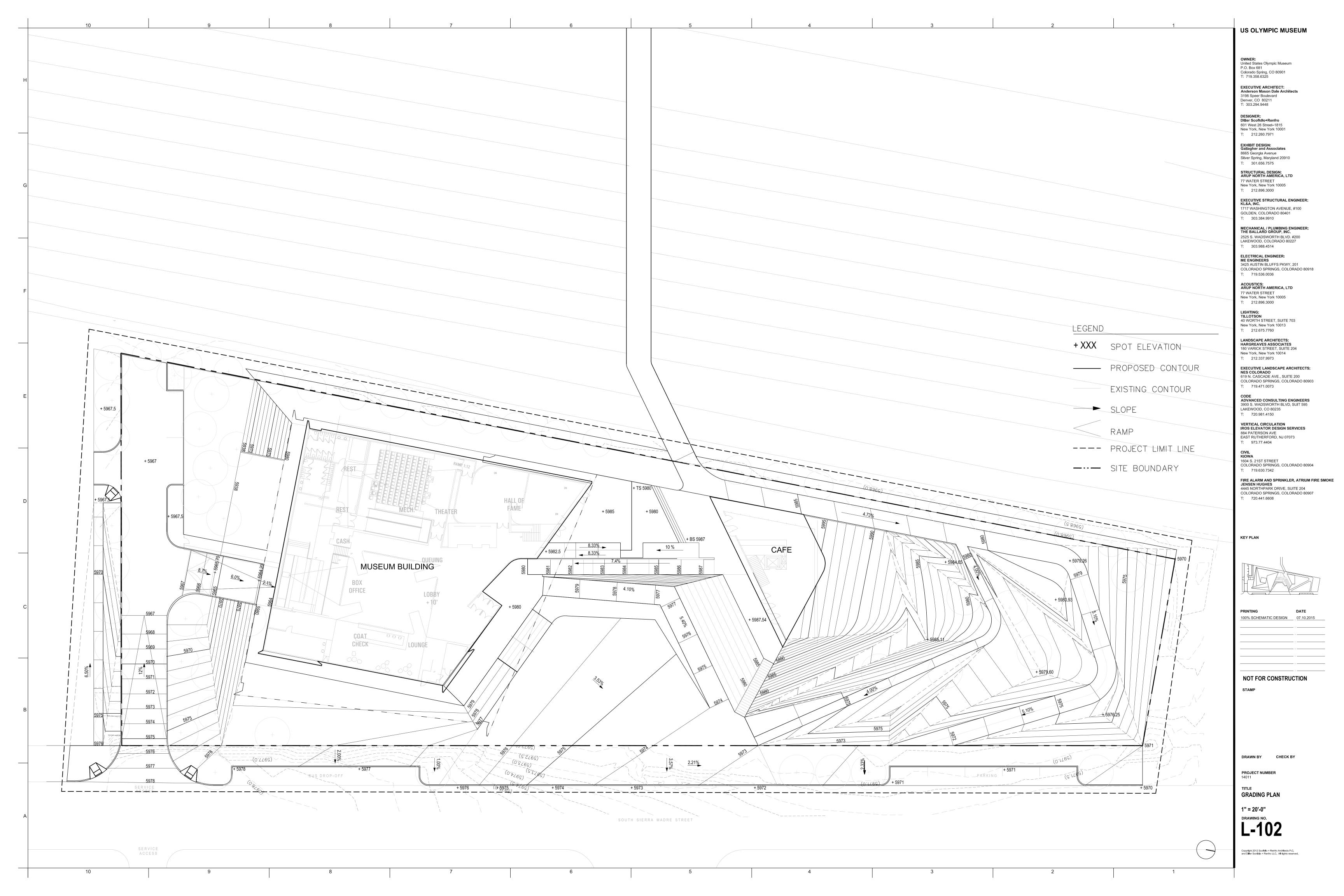
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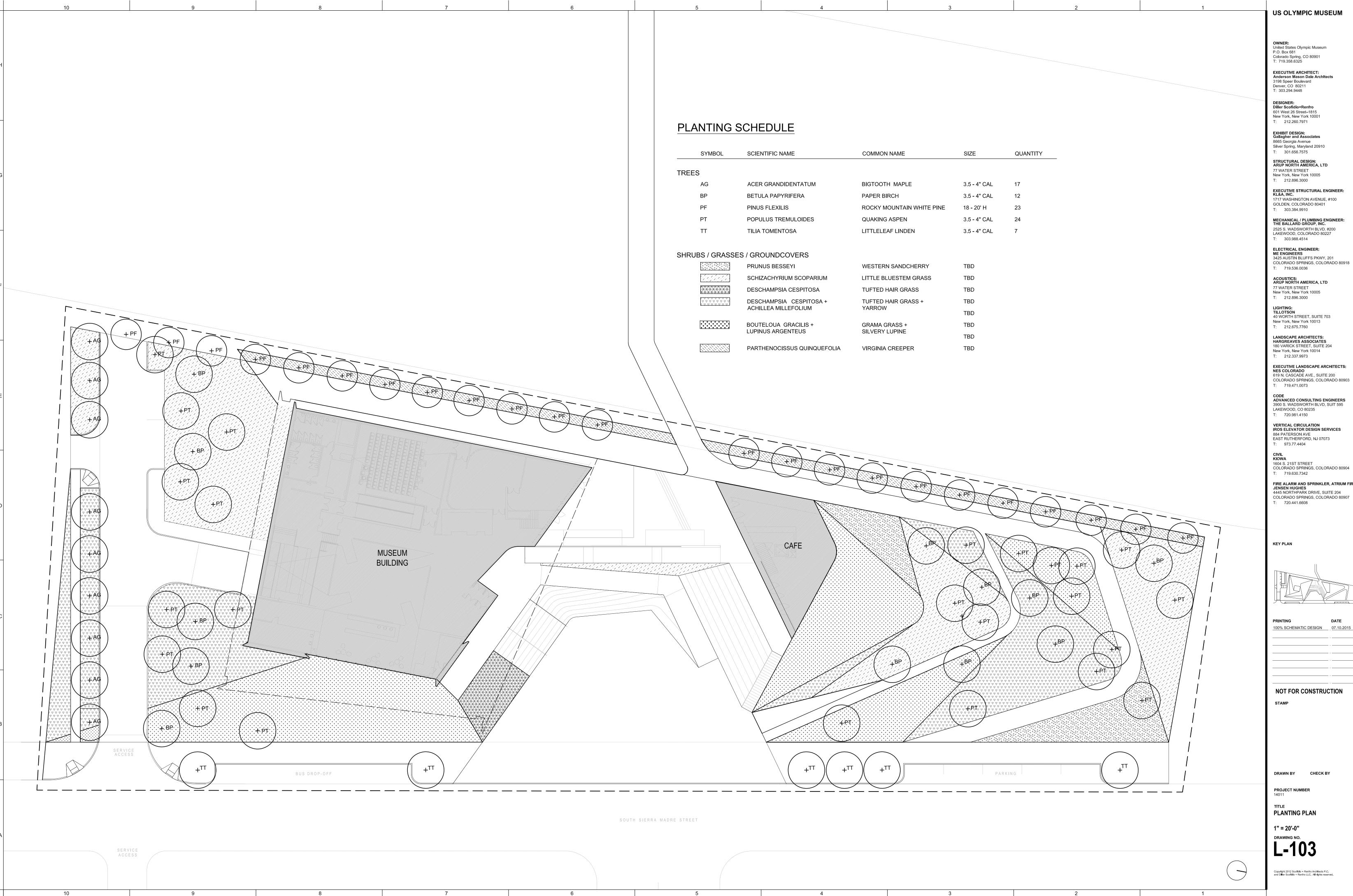
C-102

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15023Base.dwg/Jul 10, 2015







MECHANICAL / PLUMBING ENGINEER: THE BALLARD GROUP, INC. 2525 S. WADSWORTH BLVD. #200 LAKEWOOD, COLORADO 80227

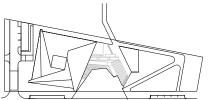
ME ENGINEERS 3425 AUSTIN BLUFFS PKWY, 201

180 VARICK STREET, SUITE 204

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

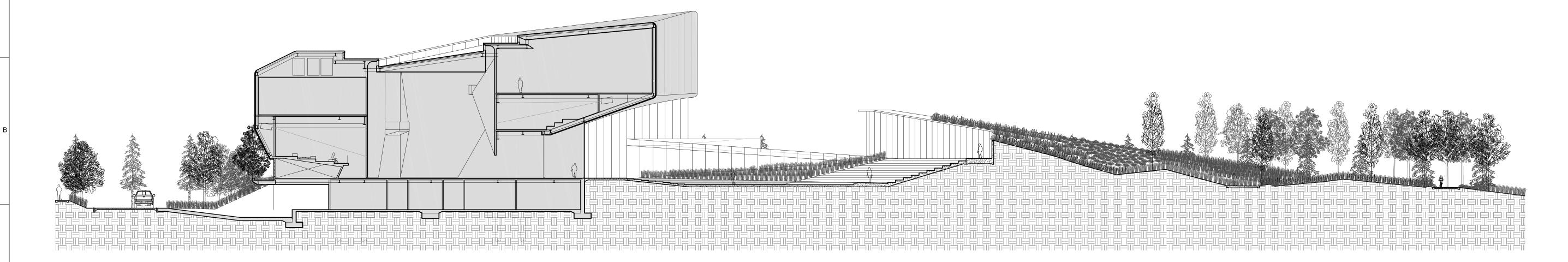
EAST RUTHERFORD, NJ 07073

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



100% SCHEMATIC DESIGN . 07.10.2015

KEY PLAN



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: 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 EXHIBIT DESIGN: Gallagher and Associates 8665 Georgia Avenue Silver Spring, Maryland 20910

T: 301.656.7575

STRUCTURAL DESIGN: ARUP NORTH AMERICA, LTD

77 WATER STREET New York, New York 10005

T: 212.896.3000 EXECUTIVE STRUCTURAL ENGINEER: KL&A, INC.

1717 WASHINGTON AVENUE, #100 GOLDEN, COLORADO 80401 T: 303.384.9910 MECHANICAL / PLUMBING ENGINEER: THE BALLARD GROUP, INC.

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: ARUP NORTH AMERICA, LTD 77 WATER STREET New York, New York 10005

T: 212.896.3000

LIGHTING: TILLOTSON 40 WORTH STREET, SUITE 703 New York, New York 10013 T: 212.675.7760

LANDSCAPE ARCHITECTS: HARGREAVES ASSOCIATES 180 VARICK STREET, SUITE 204

New York, New York 10014 T: 212.337.9973

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

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

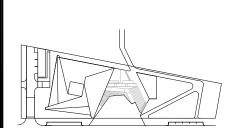
VERTICAL CIRCULATION IROS ELEVATOR DESIGN SERVICES 884 PATERSON AVE EAST RUTHERFORD, NJ 07073 T: 973.77.4404

CIVIL KIOWA 1604 S. 21ST STREET

T: 719.630.7342 FIRE ALARM AND SPRINKLER, ATRIUM FIRE SMOKE JENSEN HUGHES 4445 NORTHPARK DRIVE, SUITE 204 COLORADO SPRINGS, COLORADO 80907

KEY PLAN

T: 720.441.6608



100% SCHEMATIC DESIGN . 07.10.2015

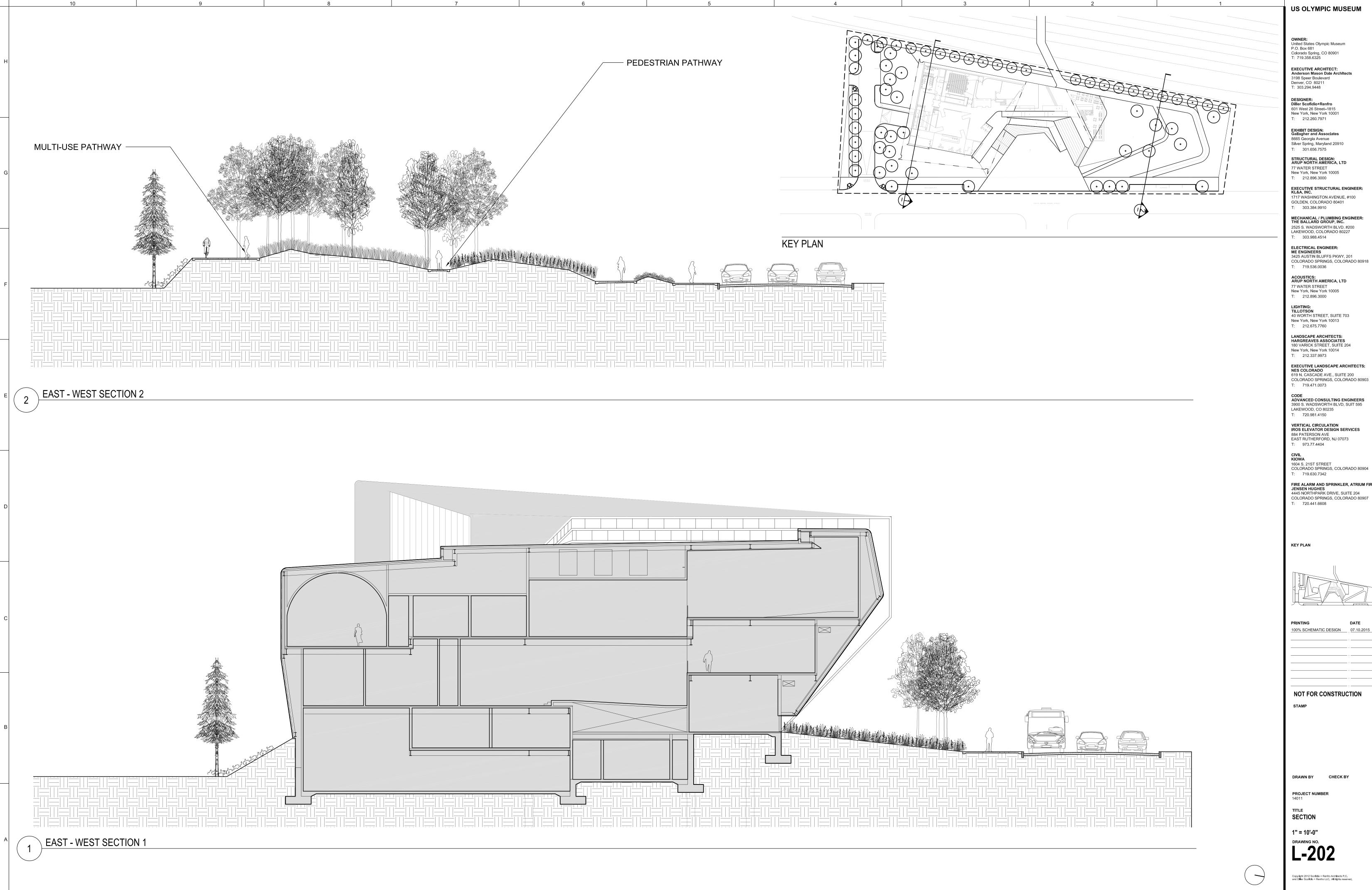
NOT FOR CONSTRUCTION

DRAWN BY CHECK BY

PROJECT NUMBER

SECTION

1" = 20'-0"



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 Scofidio+Renfro 601 West 26 Street–1815 New York, New York 10001

EXHIBIT DESIGN: Gallagher and Associates 8665 Georgia Avenue Silver Spring, Maryland 20910

T: 301.656.7575

STRUCTURAL DESIGN: ARUP NORTH AMERICA, LTD

EXECUTIVE STRUCTURAL ENGINEER: KL&A, INC. 1717 WASHINGTON AVENUE, #100 GOLDEN, COLORADO 80401

T: 303.384.9910 MECHANICAL / PLUMBING ENGINEER: THE BALLARD GROUP, INC. 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: ARUP NORTH AMERICA, LTD 77 WATER STREET New York, New York 10005 T: 212.896.3000

LIGHTING: TILLOTSON 40 WORTH STREET, SUITE 703 New York, New York 10013 T: 212.675.7760

LANDSCAPE ARCHITECTS: HARGREAVES ASSOCIATES 180 VARICK STREET, SUITE 204

New York, New York 10014 T: 212.337.9973 EXECUTIVE LANDSCAPE ARCHITECTS: NES COLORADO 619 N. CASCADE AVE., SUITE 200

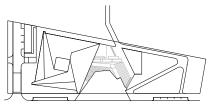
T: 719.471.0073 CODE ADVANCED CONSULTING ENGINEERS 3900 S. WADSWORTH BLVD, SUIT 595

T: 720.981.4150 VERTICAL CIRCULATION IROS ELEVATOR DESIGN SERVICES

884 PATERSON AVE EAST RUTHERFORD, NJ 07073 T: 973.77.4404

> 1604 S. 21ST STREET T: 719.630.7342

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

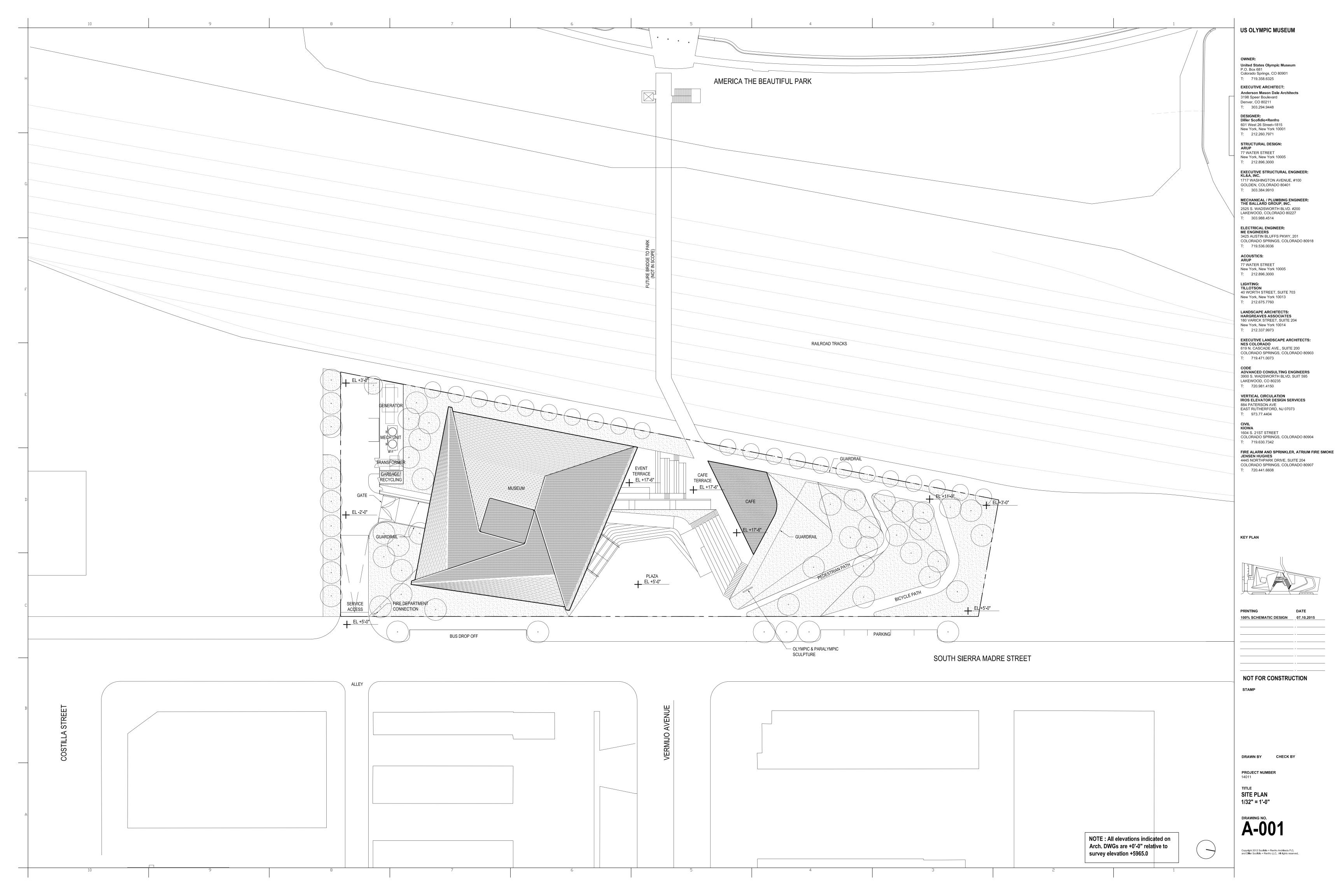


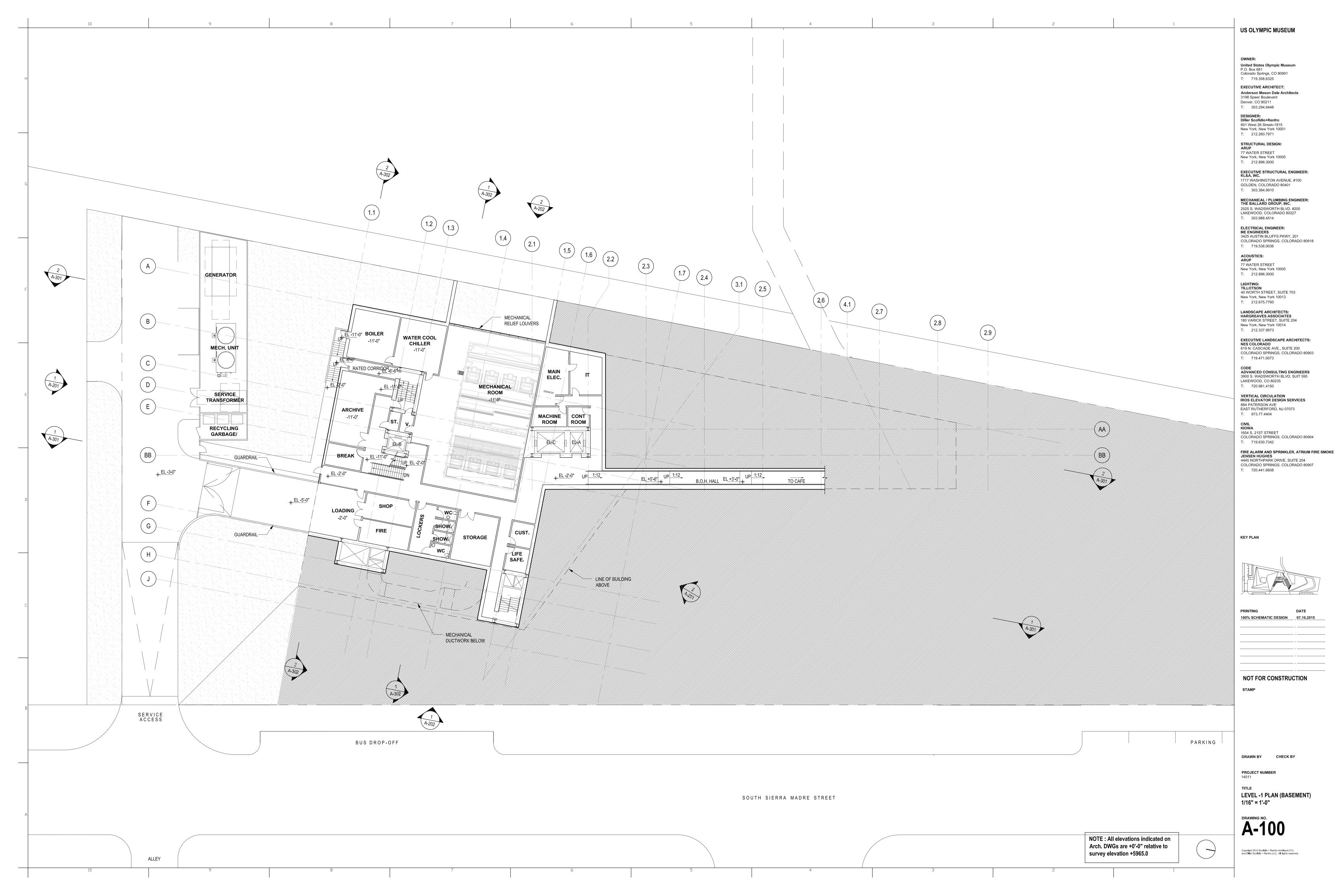
100% SCHEMATIC DESIGN . 07.10.2015

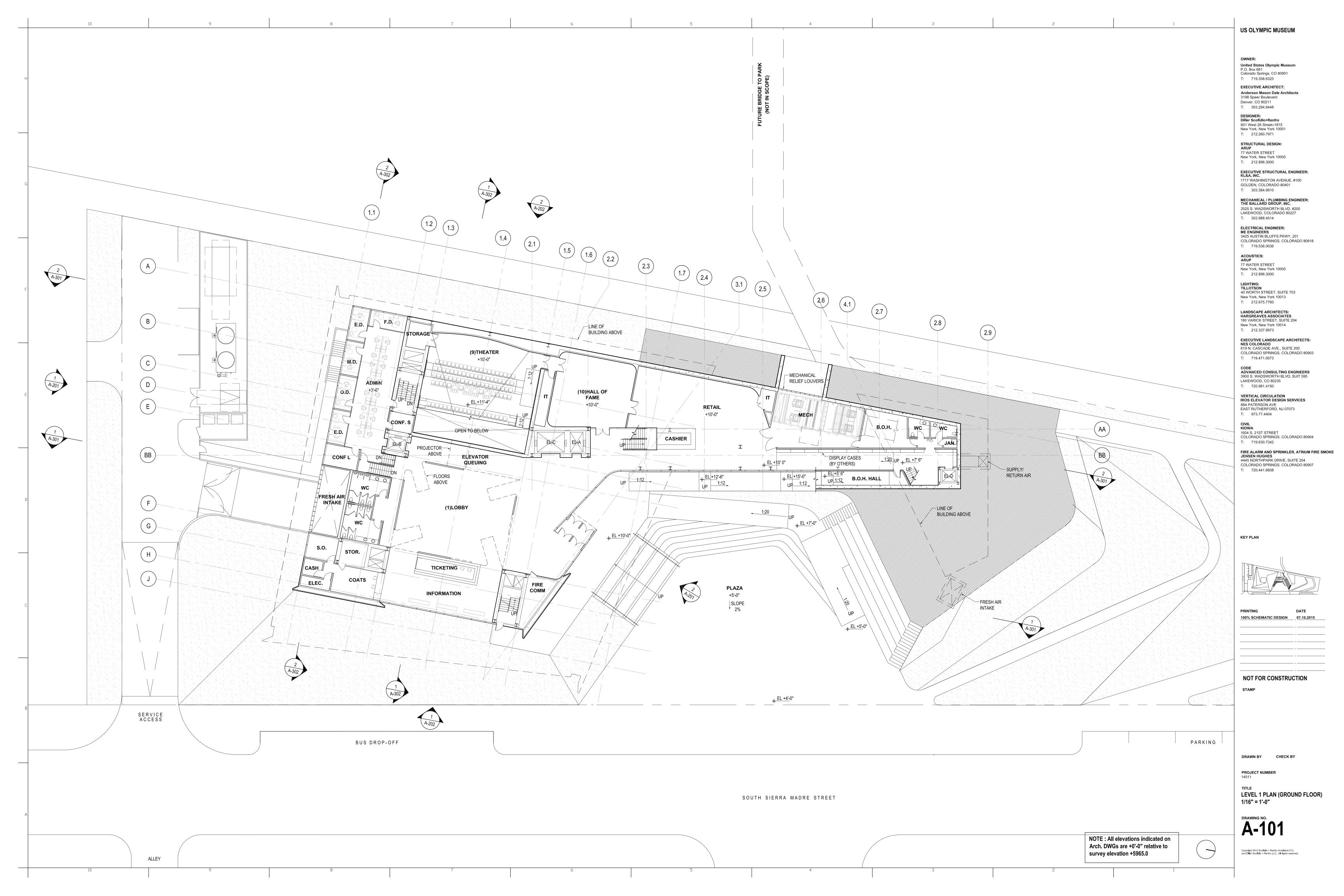
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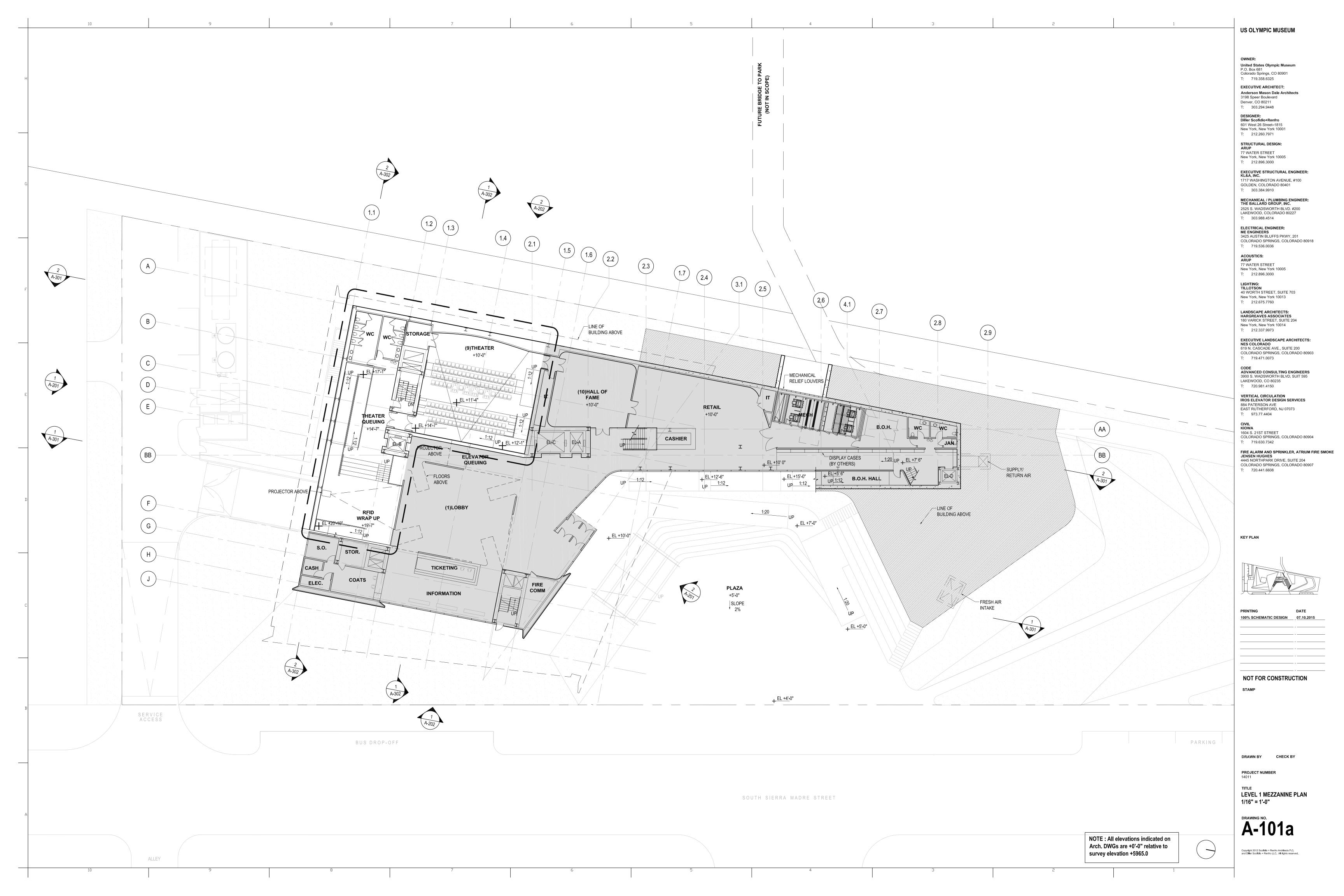
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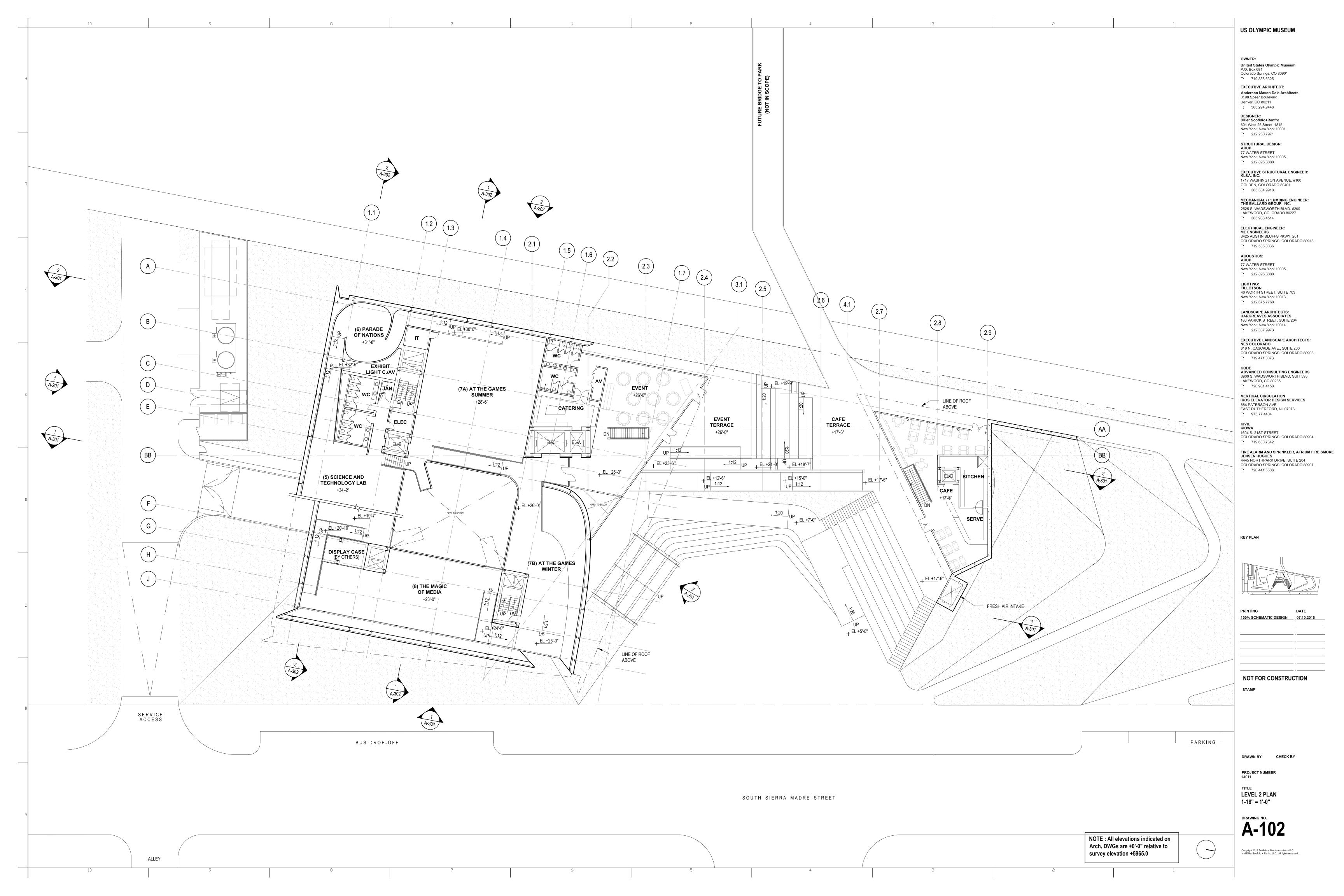
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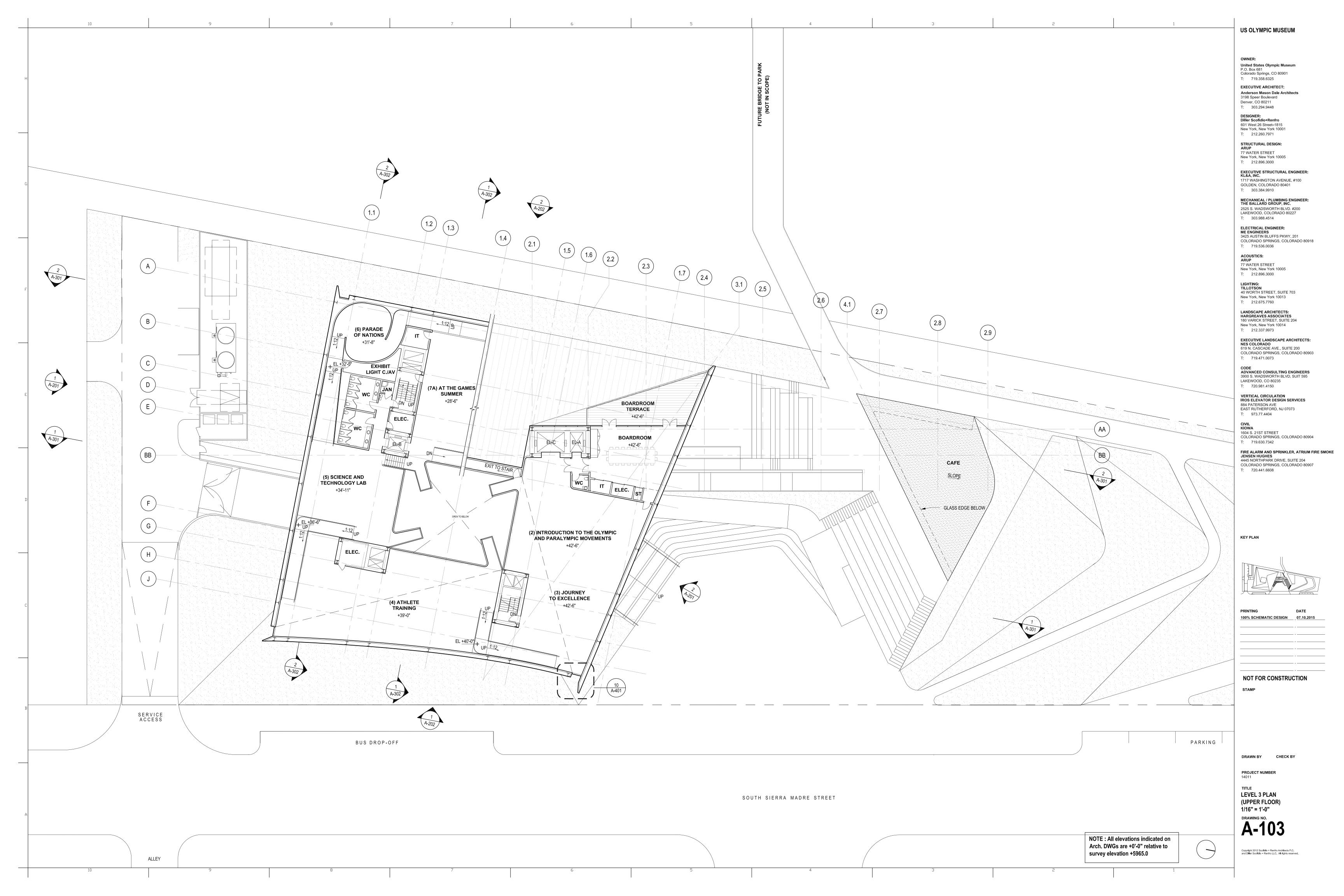


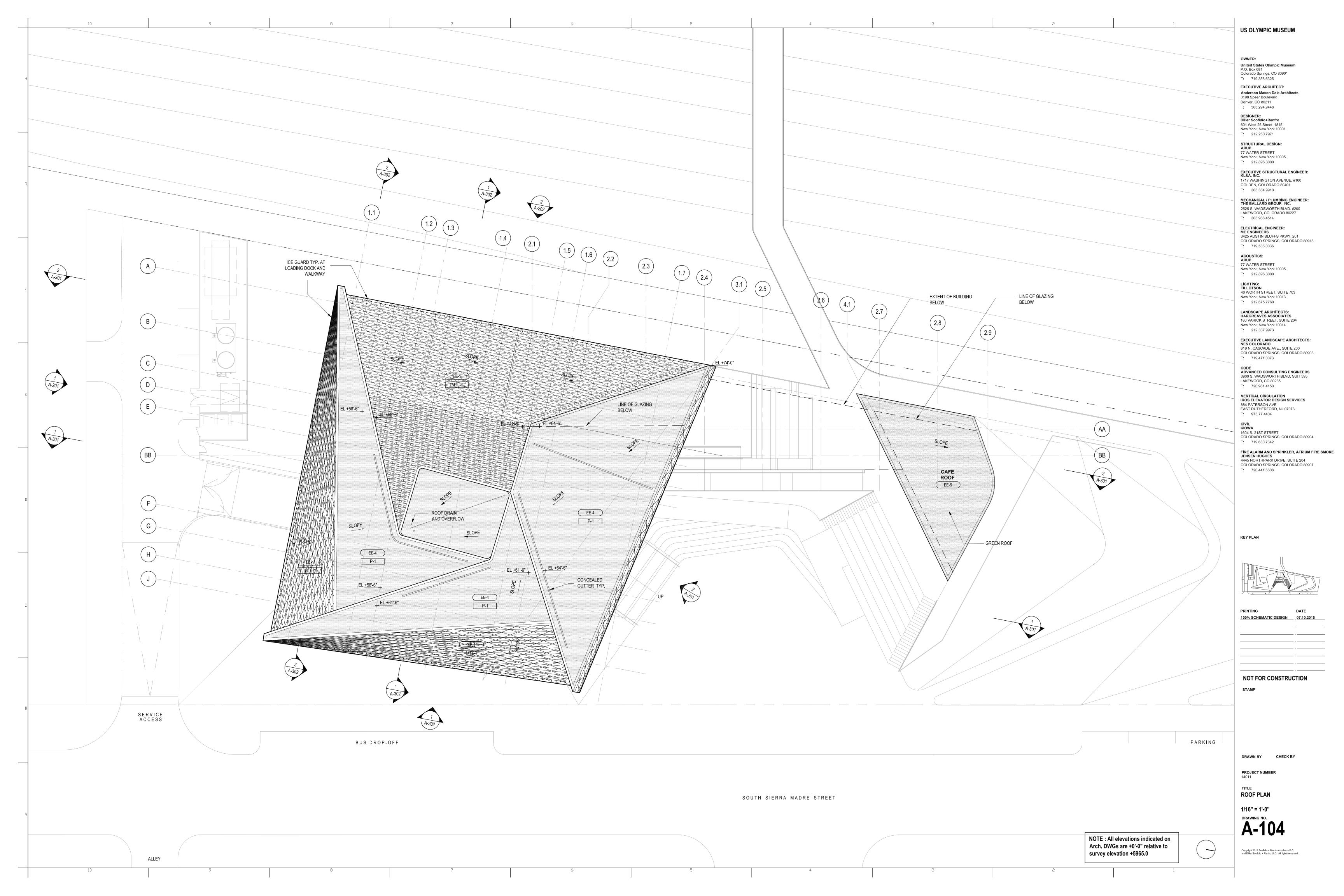


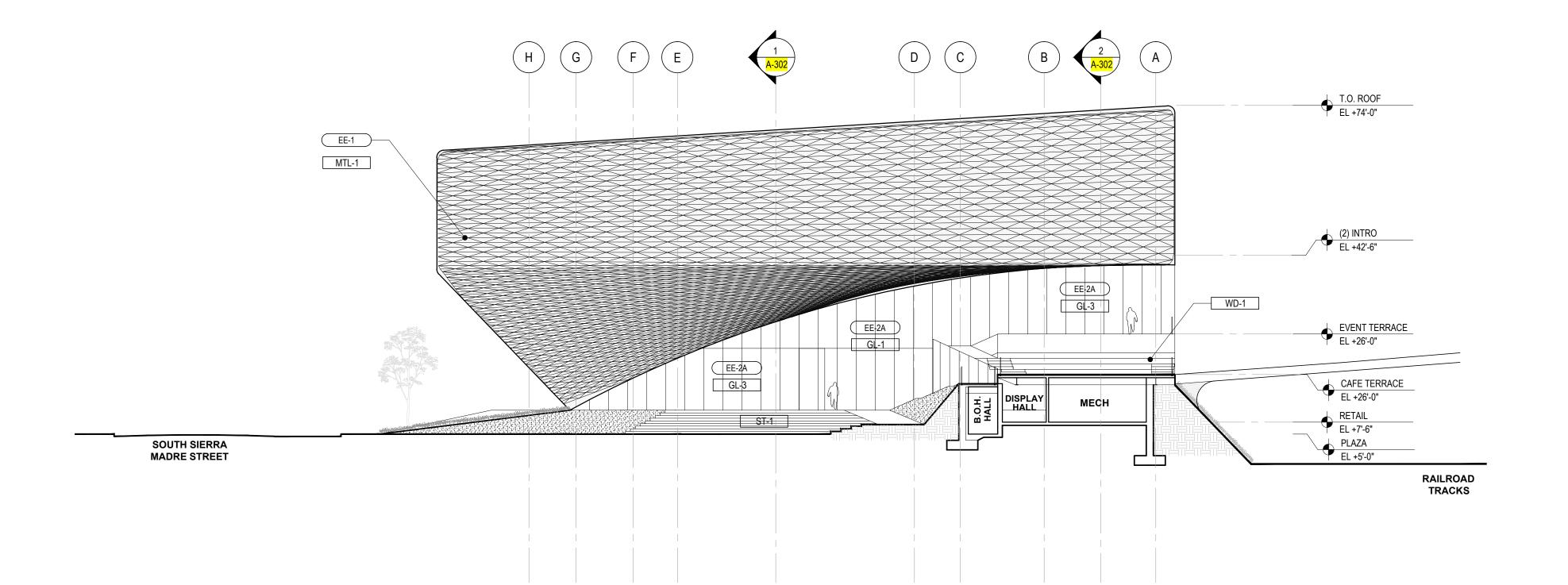




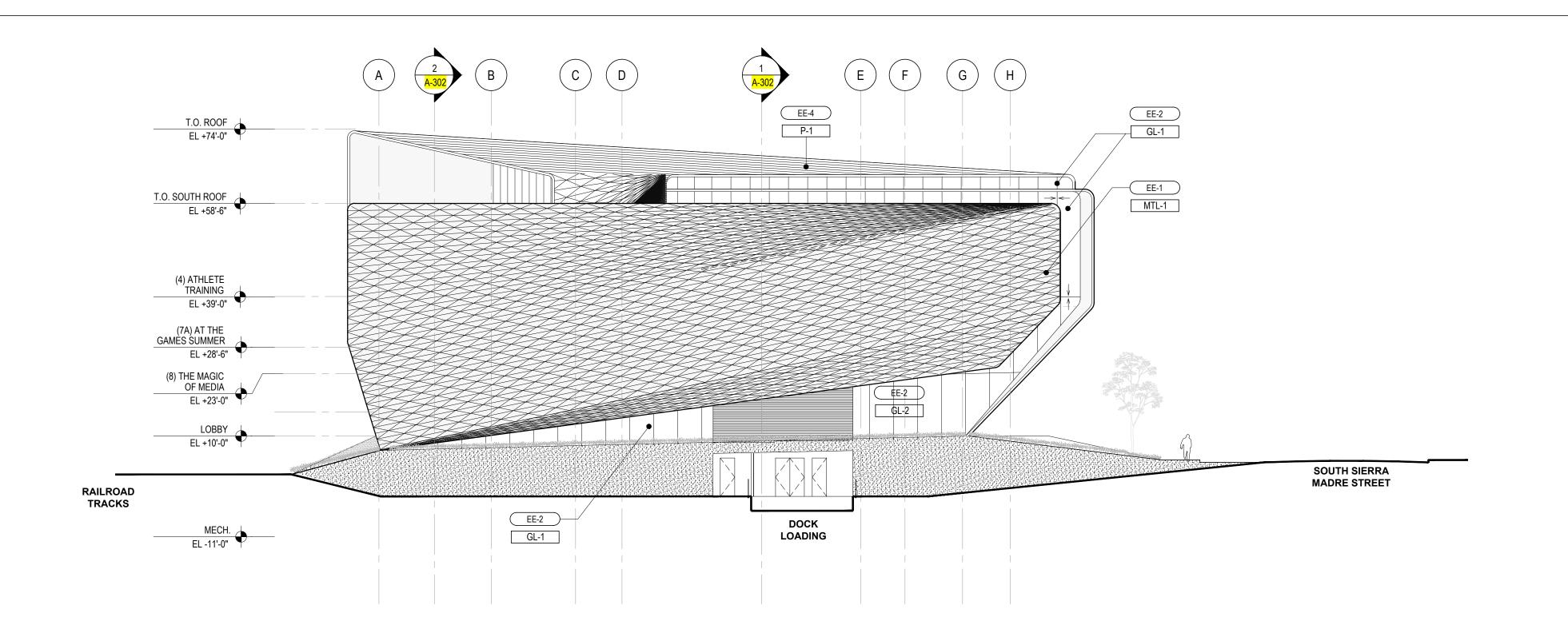








NORTH ELEVATION



1 SOUTH ELEVATION

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

US OLYMPIC MUSEUM

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

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

Colorado Springs, CO 8090°
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:

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

EXECUTIVE STRUCTURAL ENGINEER: KL&A, INC. 1717 WASHINGTON AVENUE, #100

GOLDEN, COLORADO 80401
T: 303.384.9910

MECHANICAL / PLUMBING ENGINEER: THE BALLARD GROUP, INC.

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

COLORADO SPRINGS, COLORADO 80918
T: 719.536.0036

ACOUSTICS:
ARUP
77 WATER STREET

T: 212.896.3000

LIGHTING:
TILLOTSON
40 WORTH STREET, SUITE 703

40 WORTH STREET, SUITE 703 New York, New York 10013 T: 212.675.7760

New York, New York 10005

LANDSCAPE ARCHITECTS: HARGREAVES ASSOCIATES 180 VARICK STREET, SUITE 204 New York, New York 10014 T: 212.337.9973

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

T: 719.471.0073

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

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

T: 720.981.4150

T: 973.77.4404

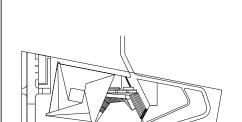
CIVIL
KIOWA

1604 S. 21ST STREET
COLORADO SPRINGS, COLORADO 80904
T: 719.630.7342

FIRE ALARM AND SPRINKLER, ATRIUM FIRE S

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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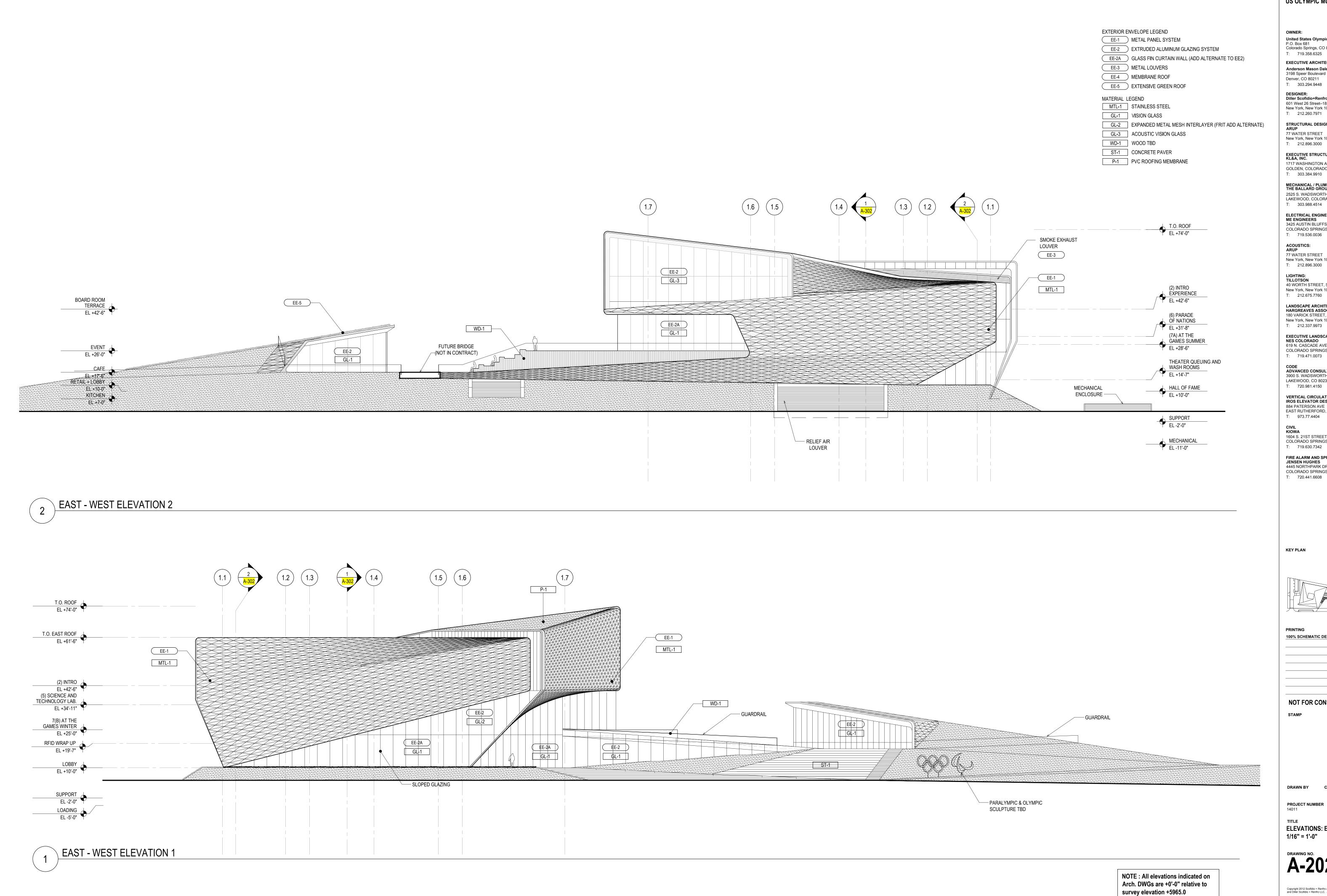
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DRAWN BY CHECK BY

PROJECT NUMBER

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

A-201



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: ARUP 77 WATER STREET New York, New York 10005

T: 212.896.3000

EXECUTIVE STRUCTURAL ENGINEER: KL&A, INC. 1717 WASHINGTON AVENUE, #100 GOLDEN, COLORADO 80401

T: 303.384.9910

MECHANICAL / PLUMBING ENGINEER: THE BALLARD GROUP, INC. 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

New York, New York 10005 T: 212.896.3000 LIGHTING: TILLOTSON

40 WORTH STREET, SUITE 703 New York, New York 10013 T: 212.675.7760

LANDSCAPE ARCHITECTS: HARGREAVES ASSOCIATES 180 VARICK STREET, SUITE 204 New York, New York 10014 T: 212.337.9973

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

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

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

1604 S. 21ST STREET

COLORADO SPRINGS, COLORADO 80904 T: 719.630.7342

FIRE ALARM AND SPRINKLER, ATRIUM FIRE SMOKE JENSEN HUGHES 4445 NORTHPARK DRIVE, SUITE 204

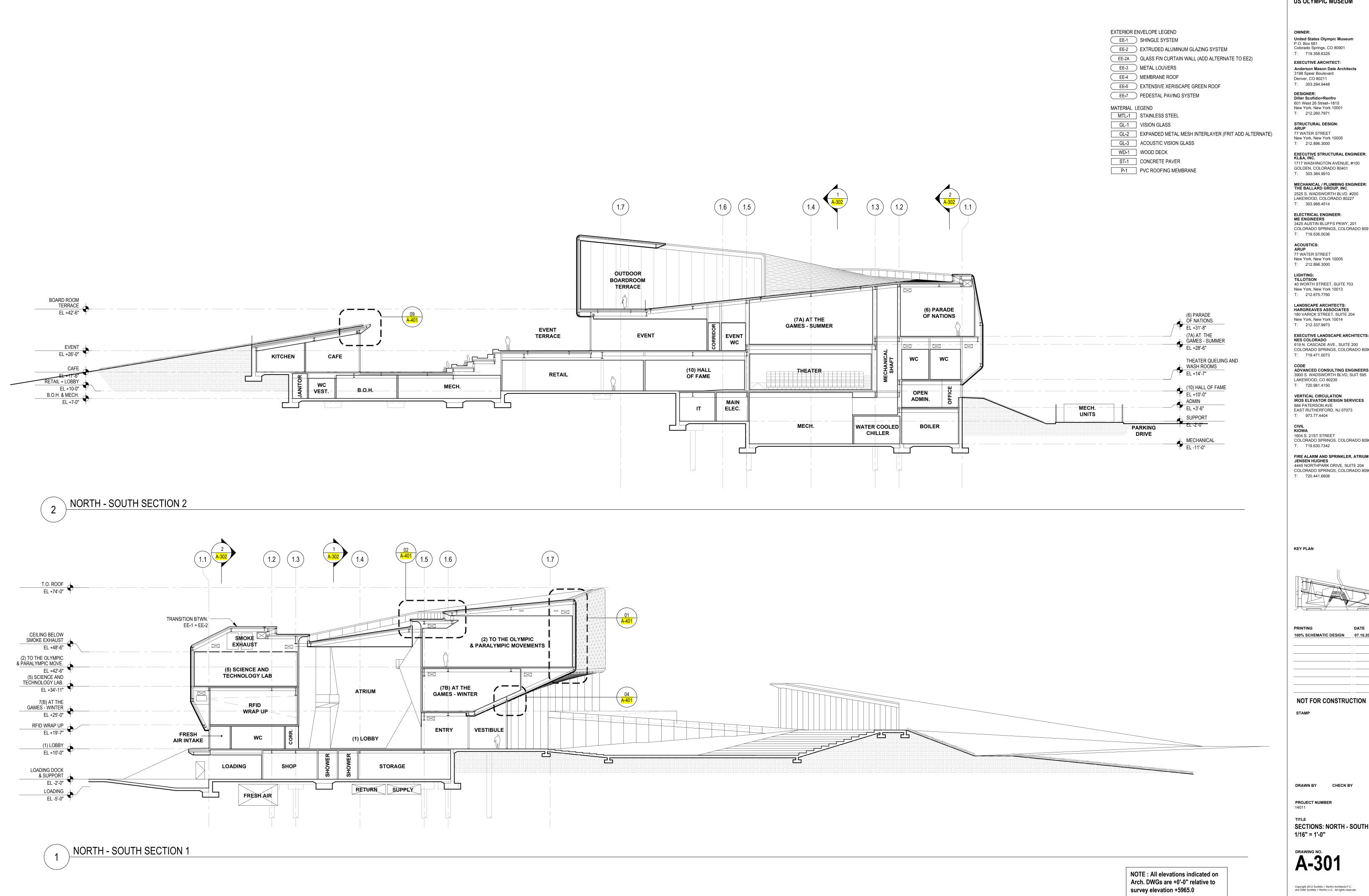


100% SCHEMATIC DESIGN 07.10.2015

NOT FOR CONSTRUCTION

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

A-202



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: ARUP

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

EXECUTIVE STRUCTURAL ENGINEER: KL&A, INC. 1717 WASHINGTON AVENUE, #100

GOLDEN, COLORADO 80401 T: 303.384.9910 MECHANICAL / PLUMBING ENGINEER: THE BALLARD GROUP, INC.

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: ARUP

New York, New York 10005 T: 212.896.3000 LIGHTING: TILLOTSON

40 WORTH STREET, SUITE 703 New York, New York 10013 T: 212.675.7760

LANDSCAPE ARCHITECTS: HARGREAVES ASSOCIATES 180 VARICK STREET, SUITE 204 New York, New York 10014 T: 212.337.9973

EXECUTIVE LANDSCAPE ARCHITECTS: NES COLORADO 619 N. CASCADE AVE., SUITE 200

COLORADO SPRINGS, COLORADO 80903 T: 719.471.0073 CODE ADVANCED CONSULTING ENGINEERS

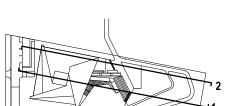
T: 720.981.4150 VERTICAL CIRCULATION IROS ELEVATOR DESIGN SERVICES

884 PATERSON AVE EAST RUTHERFORD, NJ 07073 T: 973.77.4404

1604 S. 21ST STREET COLORADO SPRINGS, COLORADO 80904

T: 719.630.7342

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



100% SCHEMATIC DESIGN 07.10.2015

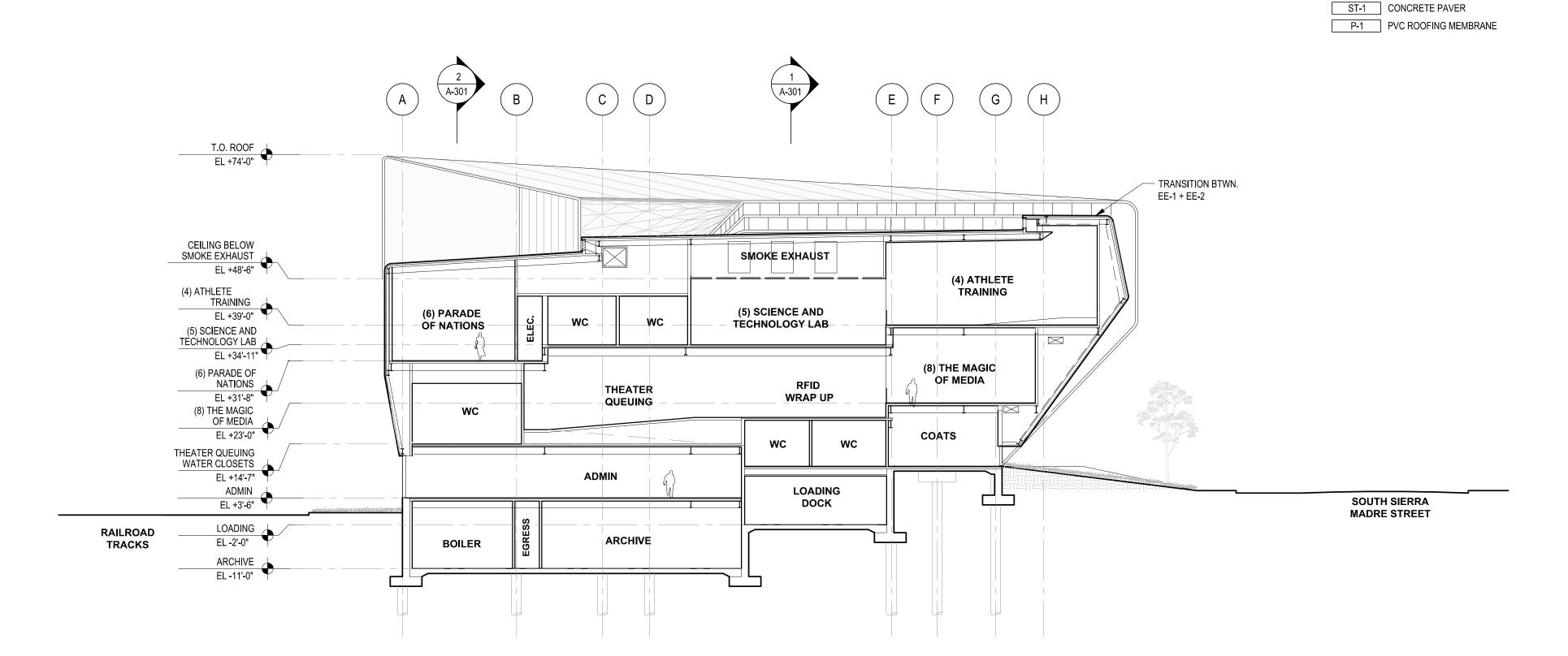
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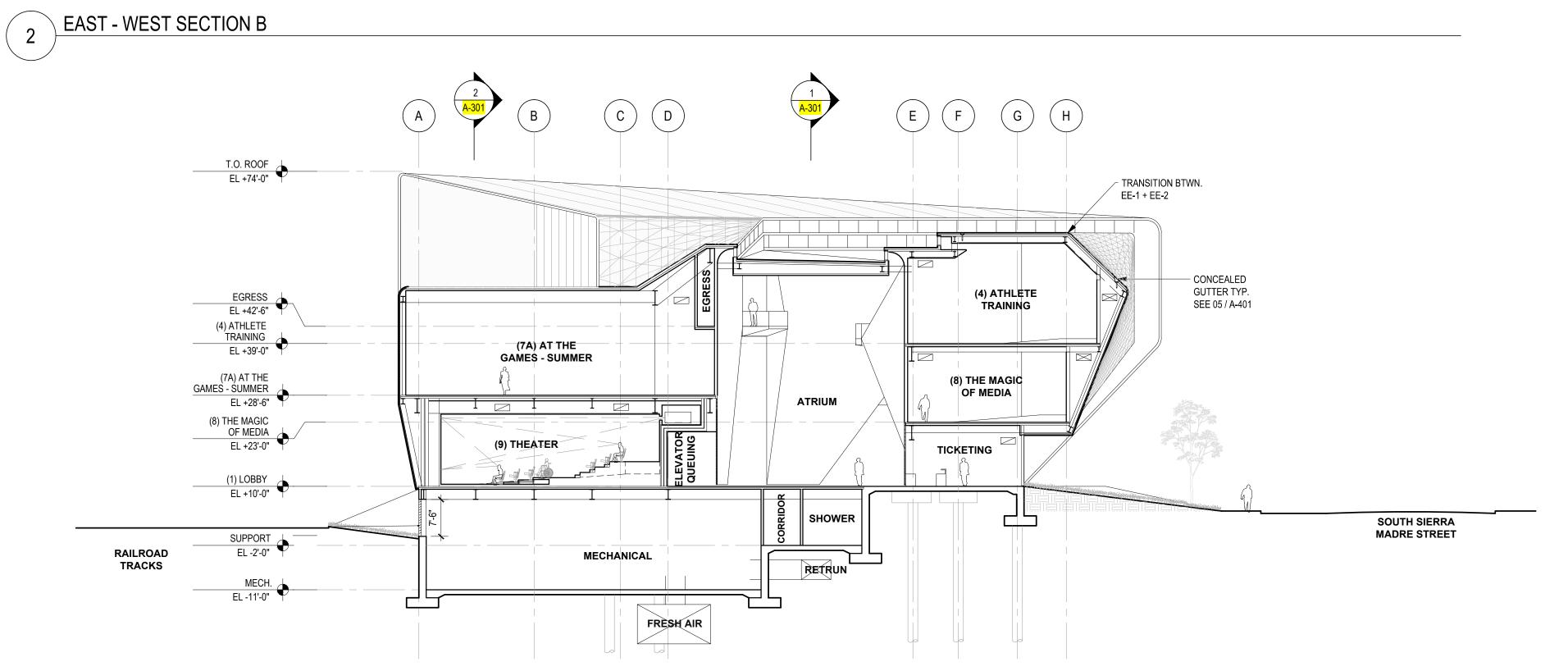
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PROJECT NUMBER

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

DRAWING NO.





EAST - WEST SECTION A

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

US OLYMPIC MUSEUM

OWNER:

EXTERIOR ENVELOPE LEGEND

EE-1 SHINGLE SYSTEM

EE-3 METAL LOUVERS

EE-4 MEMBRANE ROOF

MTL-1 STAINLESS STEEL

GL-1 VISION GLASS

WD-1 WOOD DECK

MATERIAL LEGEND

EE-7 PEDESTAL PAVING SYSTEM

GL-3 ACOUSTIC VISION GLASS

EE-2 EXTRUDED ALUMINUM GLAZING SYSTEM

EE-5 EXTENSIVE XERISCAPE GREEN ROOF

EE-2A GLASS FIN CURTAIN WALL (ADD ALTERNATE TO EE2)

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: ARUP GL-2 EXPANDED METAL MESH INTERLAYER (FRIT ADD ALTERNATE) 77 WATER STREET New York, New York 10005

T: 212.896.3000 EXECUTIVE STRUCTURAL ENGINEER: KL&A, INC.

1717 WASHINGTON AVENUE, #100 GOLDEN, COLORADO 80401

T: 303.384.9910

MECHANICAL / PLUMBING ENGINEER: THE BALLARD GROUP, INC. 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: ARUP 77 WATER STREET New York, New York 10005

T: 212.896.3000

LIGHTING: TILLOTSON 40 WORTH STREET, SUITE 703 New York, New York 10013

T: 212.675.7760

LANDSCAPE ARCHITECTS: HARGREAVES ASSOCIATES 180 VARICK STREET, SUITE 204 New York, New York 10014 T: 212.337.9973

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

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

VERTICAL CIRCULATION 884 PATERSON AVE EAST RUTHERFORD, NJ 07073 T: 973.77.4404

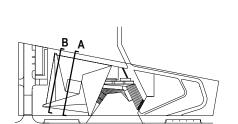
T: 720.981.4150

T: 720.441.6608

CIVIL KIOWA 1604 S. 21ST STREET COLORADO SPRINGS, COLORADO 80904 T: 719.630.7342

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

KEY PLAN



100% SCHEMATIC DESIGN 07.10.2015

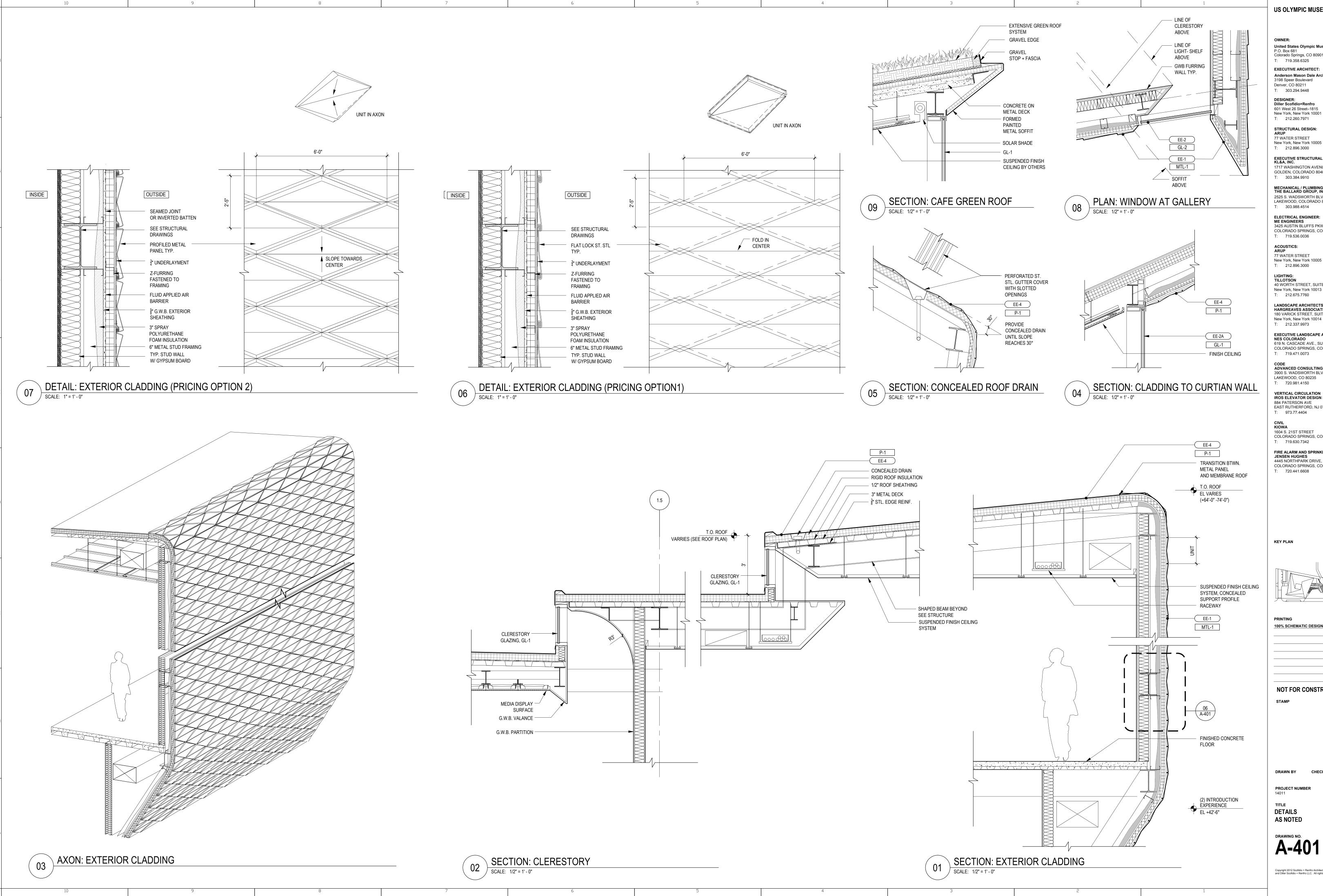
NOT FOR CONSTRUCTION

DRAWN BY CHECK BY

PROJECT NUMBER

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

A-302



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

T: 303.294.9448 DESIGNER: Diller Scofidio+Renfro 601 West 26 Street-1815

New York, New York 10001 T: 212.260.7971 STRUCTURAL DESIGN:

77 WATER STREET New York, New York 10005

T: 212.896.3000

EXECUTIVE STRUCTURAL ENGINEER: KL&A, INC. 1717 WASHINGTON AVENUE, #100

GOLDEN, COLORADO 80401

T: 303.384.9910

MECHANICAL / PLUMBING ENGINEER: THE BALLARD GROUP, INC.

2525 S. WADSWORTH BLVD. #200

LAKEWOOD, COLORADO 80227 T: 303.988.4514

ME ENGINEERS 3425 AUSTIN BLUFFS PKWY, 201 COLORADO SPRINGS, COLORADO 80918

T: 719.536.0036 ACOUSTICS:

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

40 WORTH STREET, SUITE 703

New York, New York 10013 T: 212.675.7760

LANDSCAPE ARCHITECTS: HARGREAVES ASSOCIATES 180 VARICK STREET, SUITE 204

New York, New York 10014 T: 212.337.9973

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

CODE
ADVANCED CONSULTING ENGINEERS 3900 S. WADSWORTH BLVD, SUIT 595

VERTICAL CIRCULATION IROS ELEVATOR DESIGN SERVICES

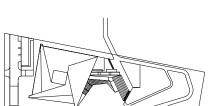
EAST RUTHERFORD, NJ 07073 T: 973.77.4404

1604 S. 21ST STREET COLORADO SPRINGS, COLORADO 80904

T: 719.630.7342

FIRE ALARM AND SPRINKLER, ATRIUM FIRE SMOKE JENSEN HUGHES 4445 NORTHPARK DRIVE, SUITE 204

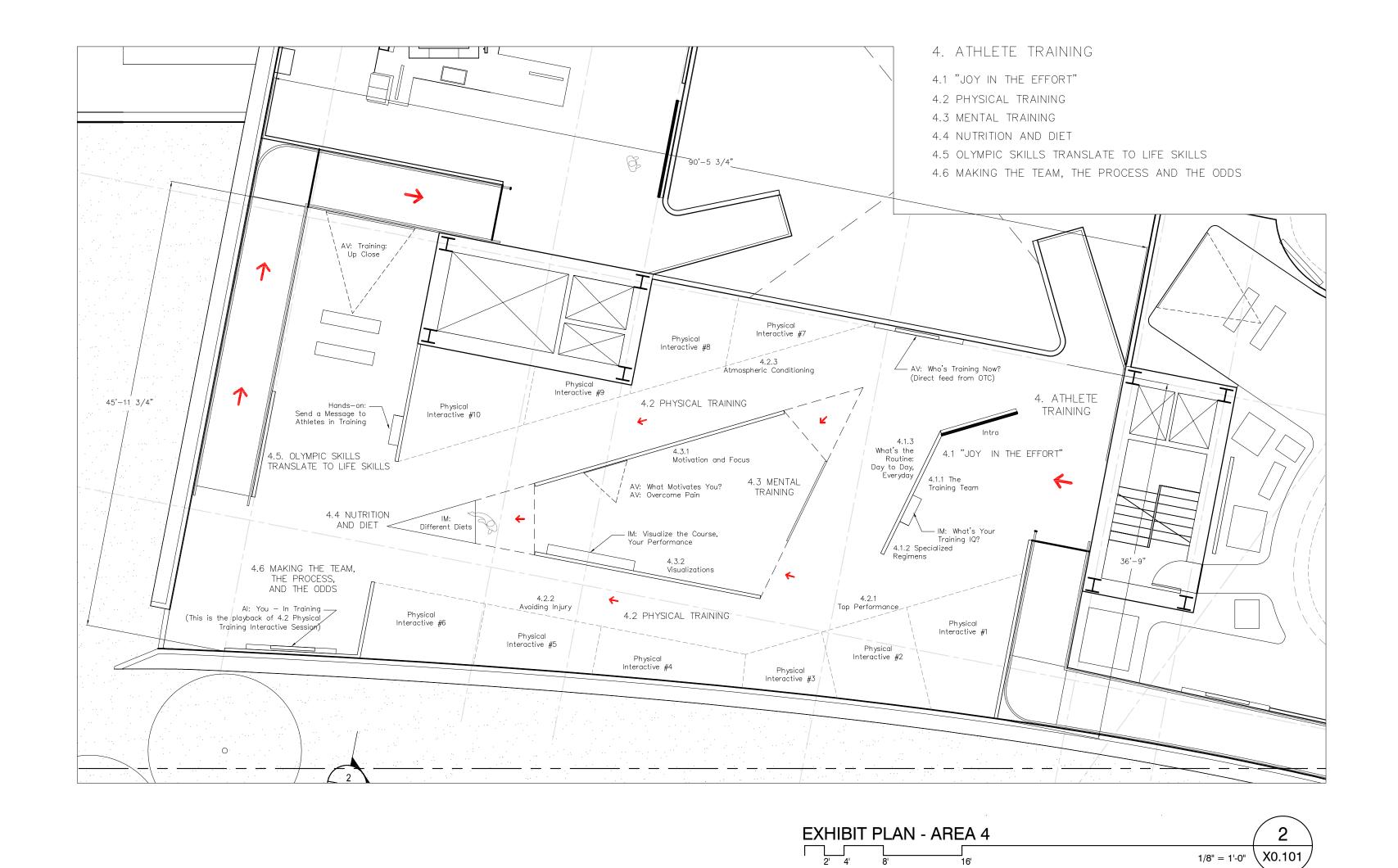
COLORADO SPRINGS, COLORADO 80907 T: 720.441.6608



100% SCHEMATIC DESIGN 07.10.2015

NOT FOR CONSTRUCTION

DRAWING NO.



1/8" = 1'-0" \X0.101

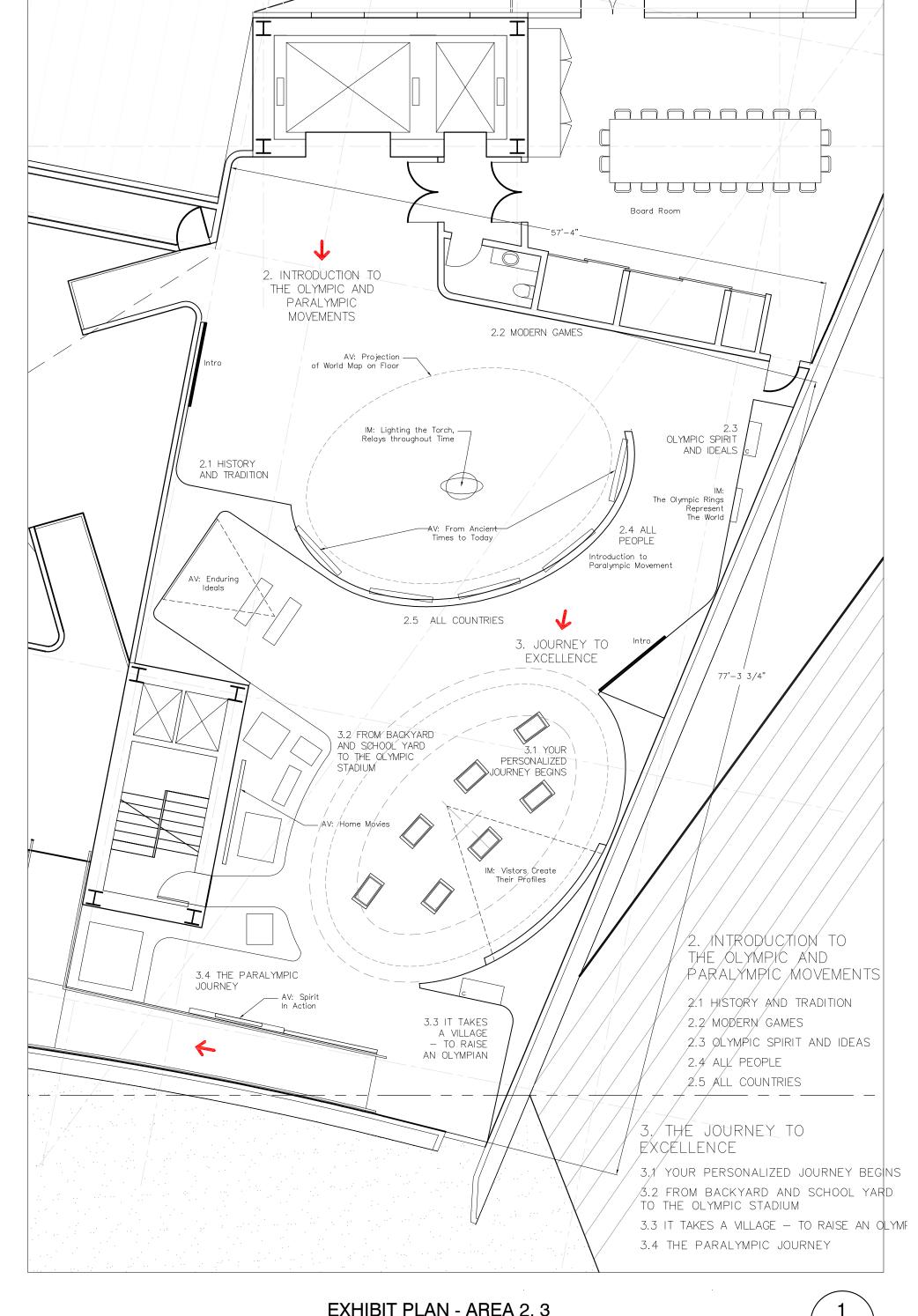


EXHIBIT PLAN - AREA 2, 3

 $1/8" = 1'-0" \setminus X0.101$

NOT FOR CONSTRUCTION

100% SCHEMATIC DESIGN . 07.10.2015

US OLYMPIC MUSEUM

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 Scofidio+Renfro 601 West 26 Street-1815 New York, New York 10001 T: 212.260.7971

EXHIBIT DESIGN: Gallagher and Associates 8665 Georgia Avenue

Silver Spring, Maryland 20910 T: 301.656.7575

STRUCTURAL DESIGN: ARUP NORTH AMERICA, LTD

EXECUTIVE STRUCTURAL ENGINEER: KL&A, INC.

1717 WASHINGTON AVENUE, #100 GOLDEN, COLORADO 80401

MECHANICAL / PLUMBING ENGINEER: THE BALLARD GROUP, INC. 2525 S. WADSWORTH BLVD. #200 LAKEWOOD, COLORADO 80227 T: 303.988.4514

New York, New York 10005

77 WATER STREET

T: 212.896.3000

T: 303.384.9910

ELECTRICAL ENGINEER:

3425 AUSTIN BLUFFS PKWY, 201 COLORADO SPRINGS, COLORADO 80918

ACOUSTICS: ARUP NORTH AMERICA, LTD

40 WORTH STREET, SUITE 703 New York, New York 10013

LANDSCAPE ARCHITECTS: HARGREAVES ASSOCIATES

180 VARICK STREET, SUITE 204 New York, New York 10014

EXECUTIVE LANDSCAPE ARCHITECTS:

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CODE
ADVANCED CONSULTING ENGINEERS

3900 S. WADSWORTH BLVD, SUIT 595

IROS ELEVATOR DESIGN SERVICES

JENSEN HUGHES 4445 NORTHPARK DRIVE, SUITE 204

COLORADO SPRINGS, COLORADO 80907

FIRE PROTECTION ENGINEER / SMOKE CONTROL

EAST RUTHERFORD, NJ 07073

619 N. CASCADE AVE., SUITE 200

New York, New York 10005

ME ENGINEERS

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LAKEWOOD, CO 80235

VERTICAL CIRCULATION

T: 720.981.4150

884 PATERSON AVE

T: 973.77.4404

1604 S. 21ST STREET

T: 719.630.7342

T: 720.441.6608

CIVIL KIOWA

NES COLORADO

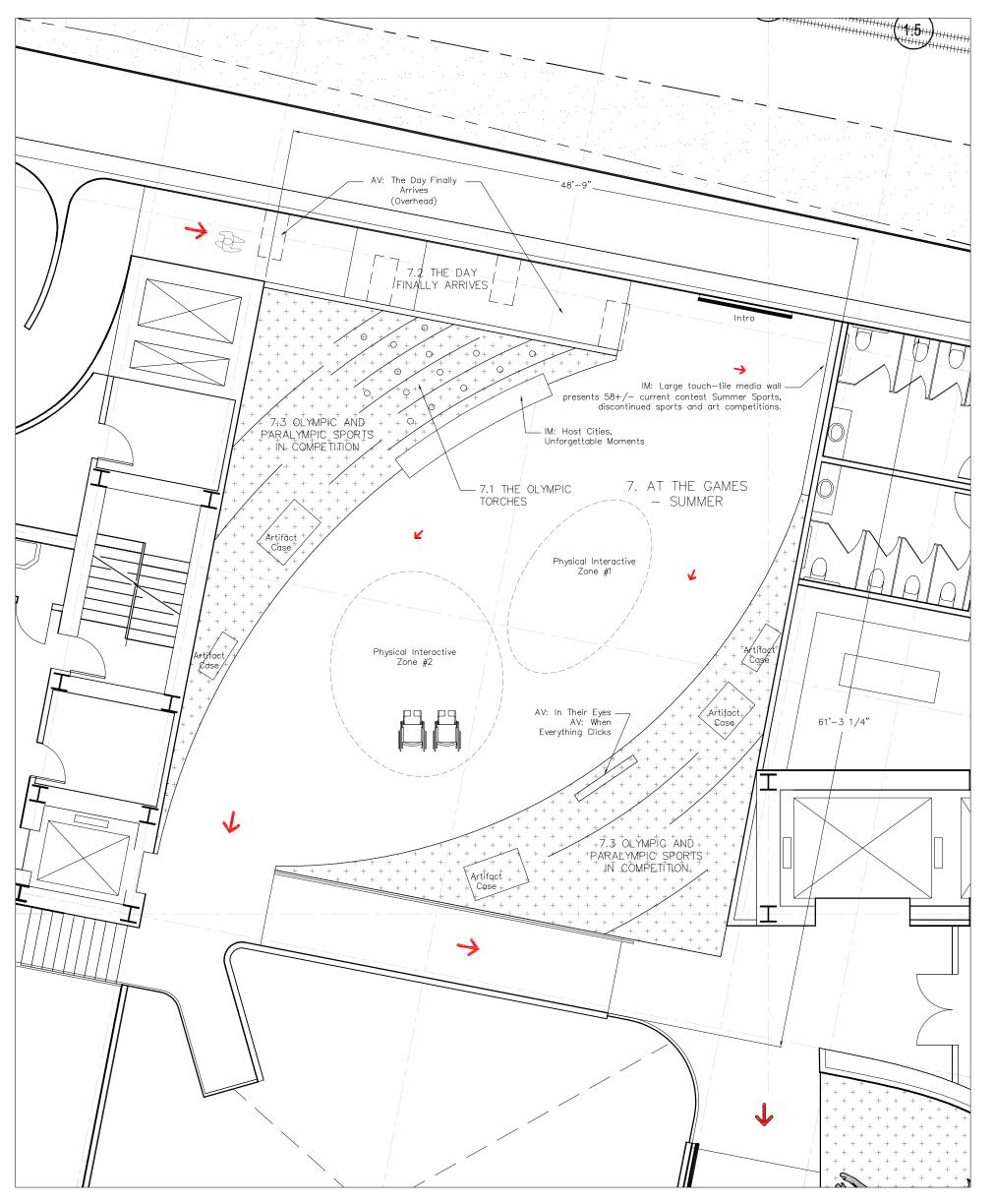
LIGHTING: TILLOTSON

DRAWN BY CHECK BY

PROJECT NUMBER

EXHIBIT PLANS

1/8" = 1' - 0" DRAWING NO.



- 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

2' 4' 8' 16'

1/8" = 1'-0"

X0.102



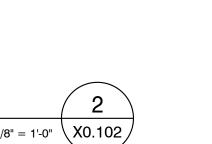
6. PARADE OF NATIONS

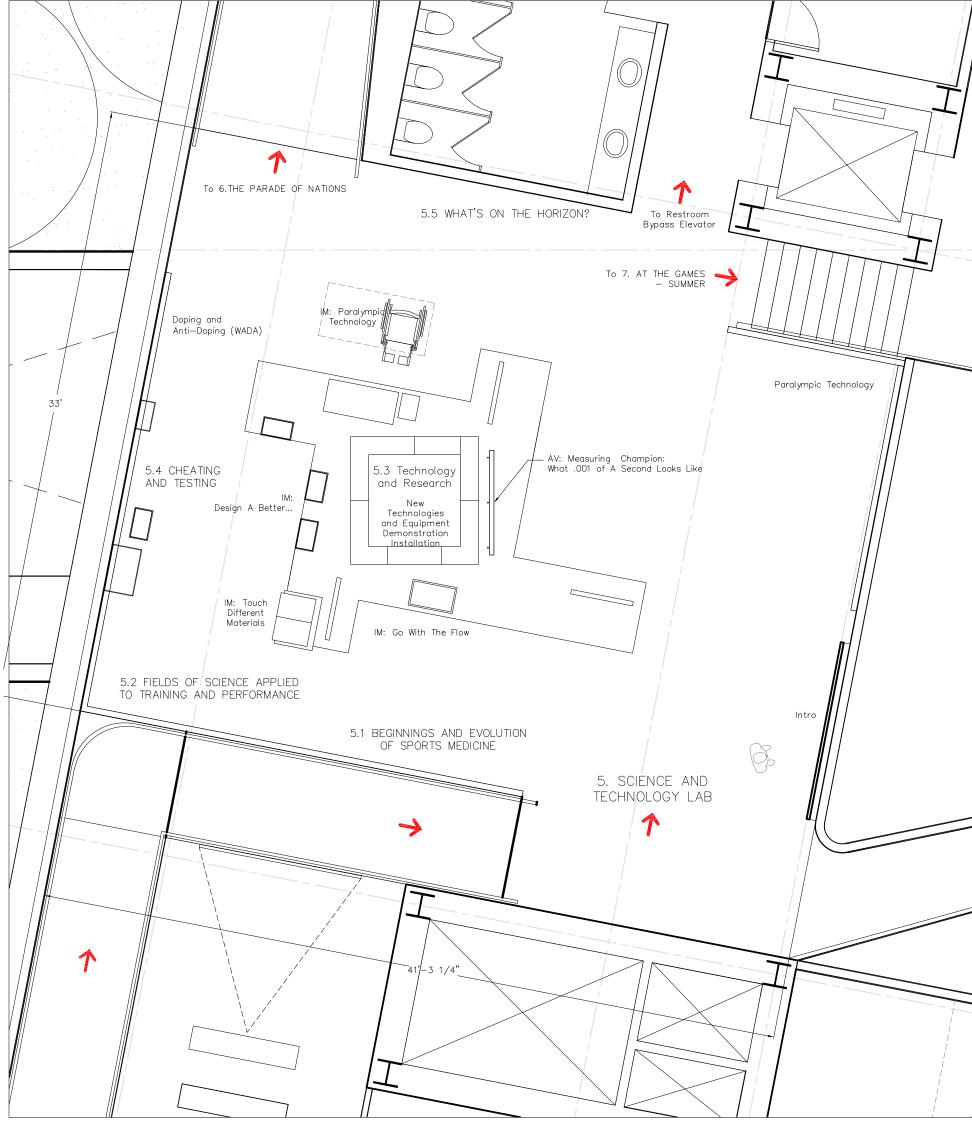
6.1 ANTICIPATION BUILDS: WAITING TO ENTER THE OLYMPIC STADIUM

6.2 ENTER WITH YOUR FELLOW COUNTRYMEN

6.3 OPENING CEREMONIES

EXHIBIT PLAN - AREA 6





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

5.3 TECHNOLOGY AND RESEAL 5.4 CHEATING AND TESTING

5.5 WHAT'S ON THE HORIZON?

EXHIBIT PLAN - AREA 5

1/8" = 1'-0" X0.102

...

100% SCHEMATIC DESIGN . 07.10.2015

US OLYMPIC MUSEUM

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 Scofidio+Renfro 601 West 26 Street–1815 New York, New York 10001

T: 212.260.7971

EXHIBIT DESIGN:
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STRUCTURAL DESIGN: ARUP NORTH AMERICA, LTD 77 WATER STREET

New York, New York 10005

GOLDEN, COLORADO 80401 T: 303.384.9910

EXECUTIVE STRUCTURAL ENGINEER: KL&A, INC.

1717 WASHINGTON AVENUE, #100

MECHANICAL / PLUMBING ENGINEER: THE BALLARD GROUP, INC. 2525 S. WADSWORTH BLVD. #200

LAKEWOOD, COLORADO 80227

3425 AUSTIN BLUFFS PKWY, 201

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ME ENGINEERS

ELECTRICAL ENGINEER:

ACOUSTICS: ARUP NORTH AMERICA, LTD

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NOT FOR CONSTRUCTION

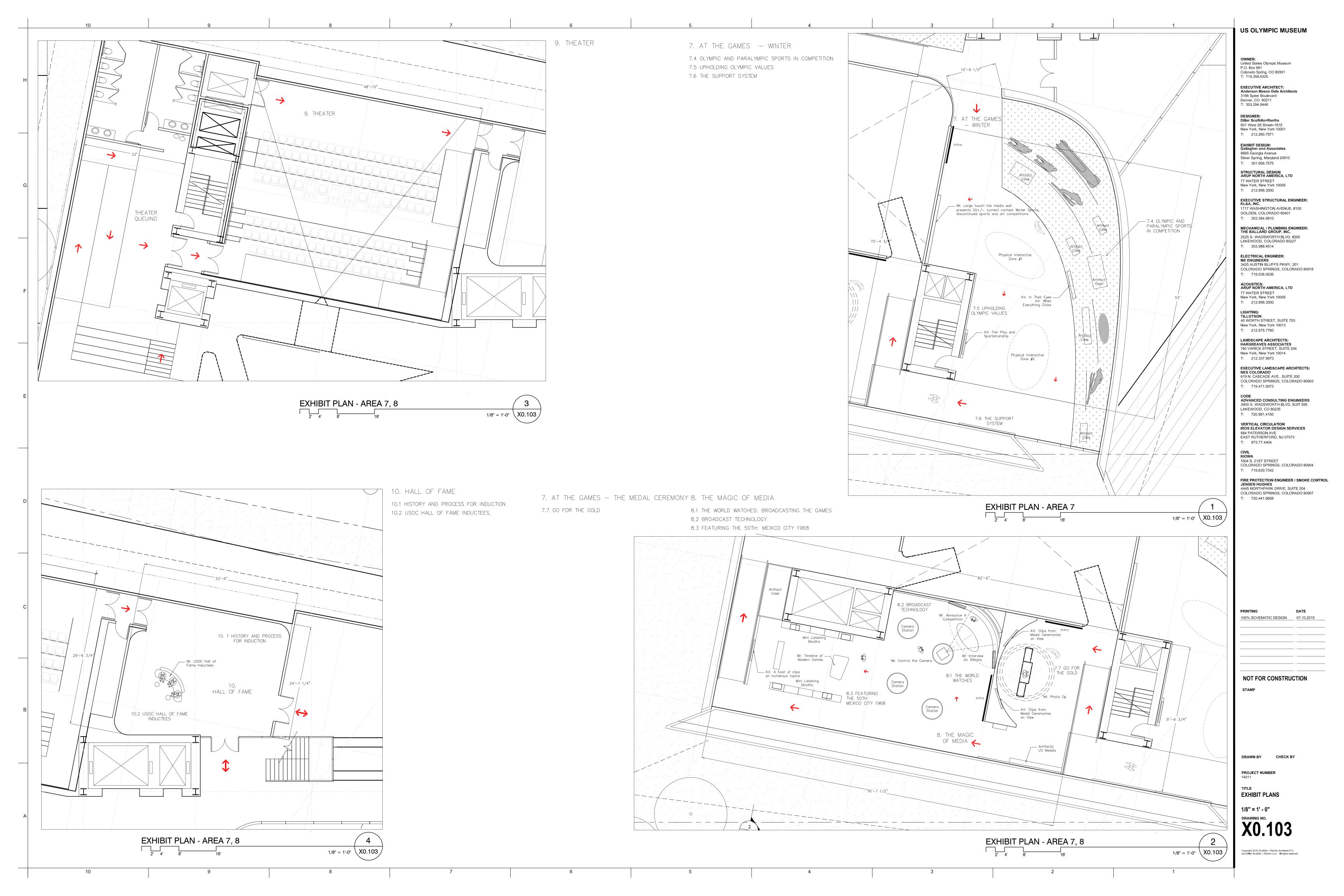
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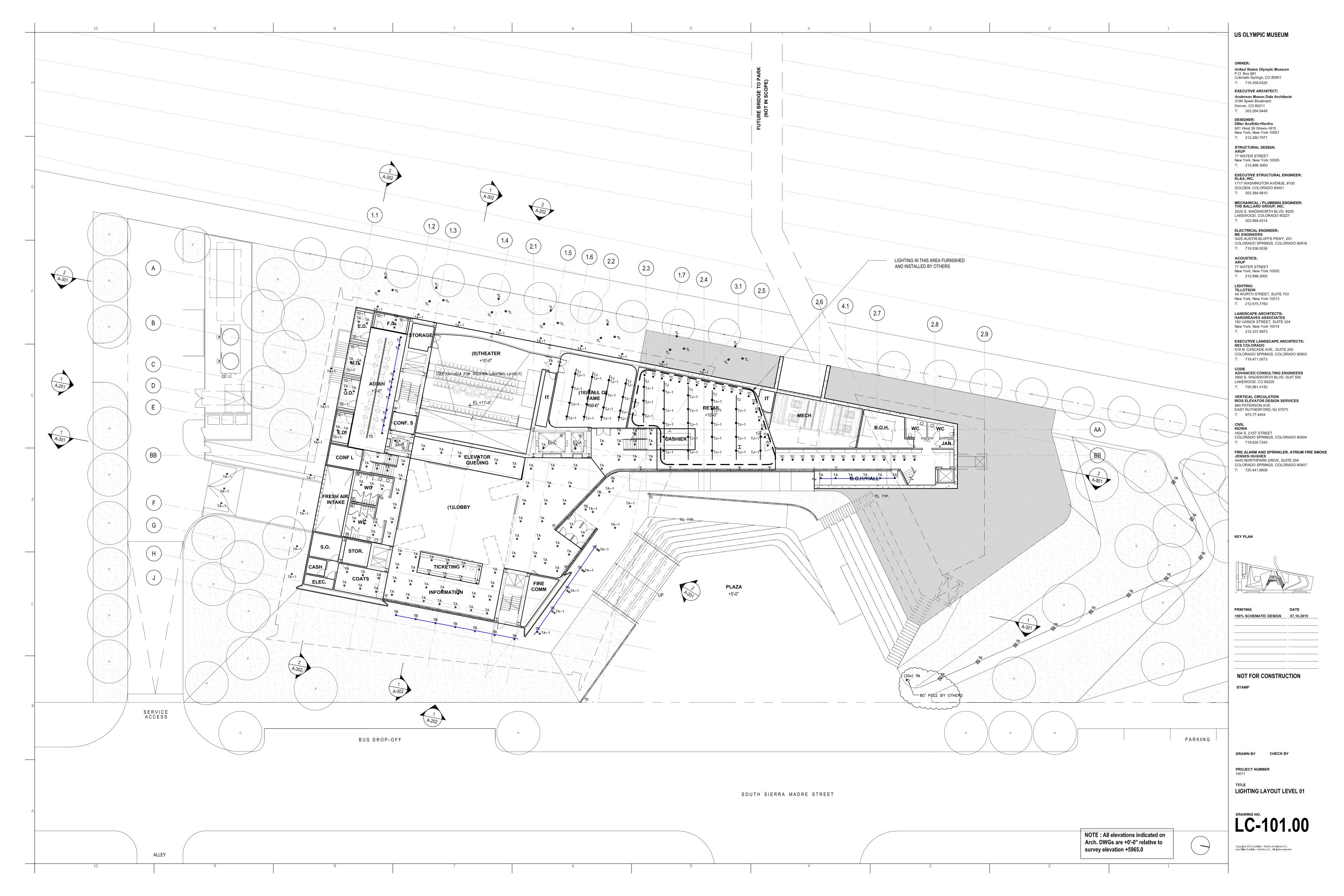
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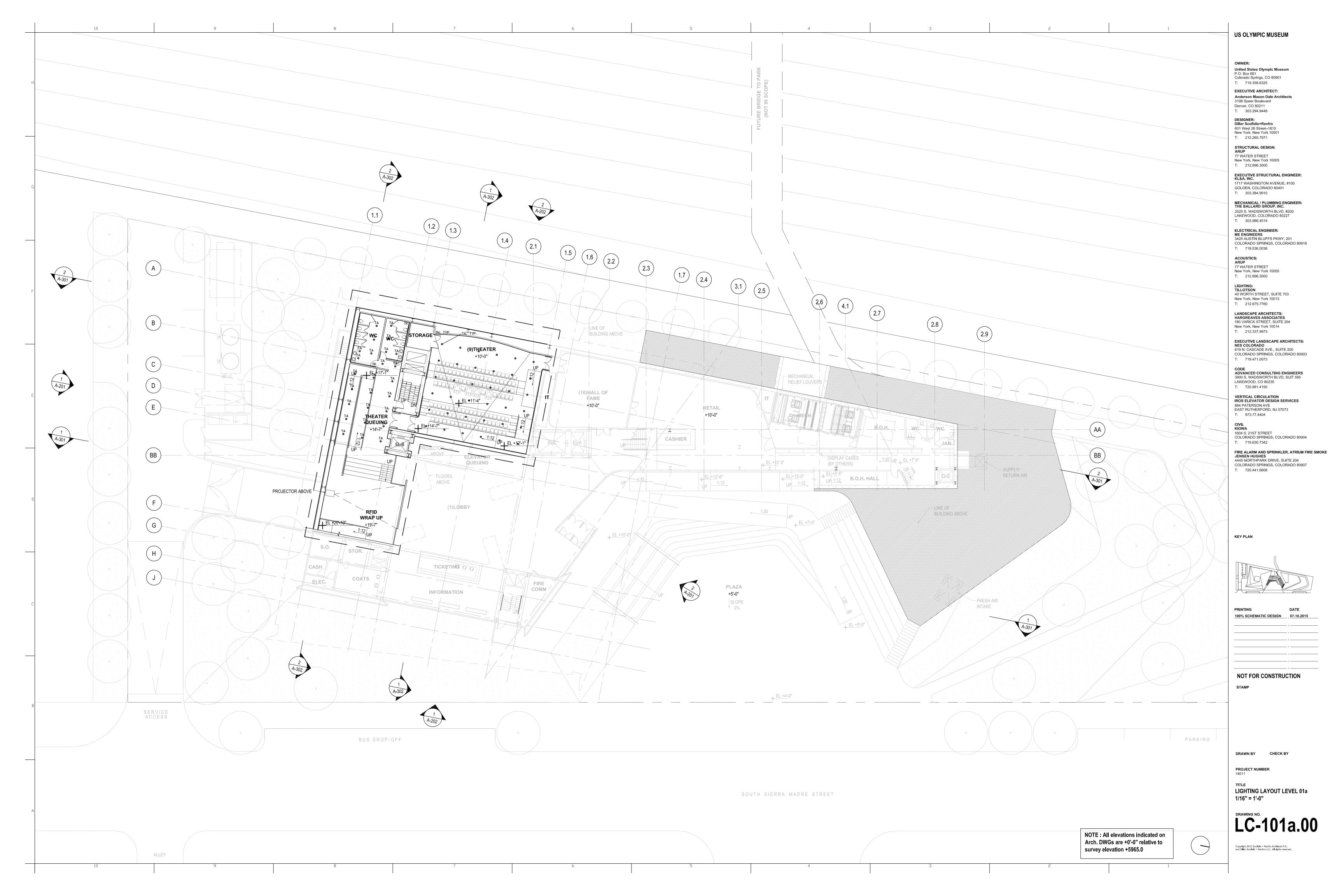
TITLE
EXHIBIT PLANS

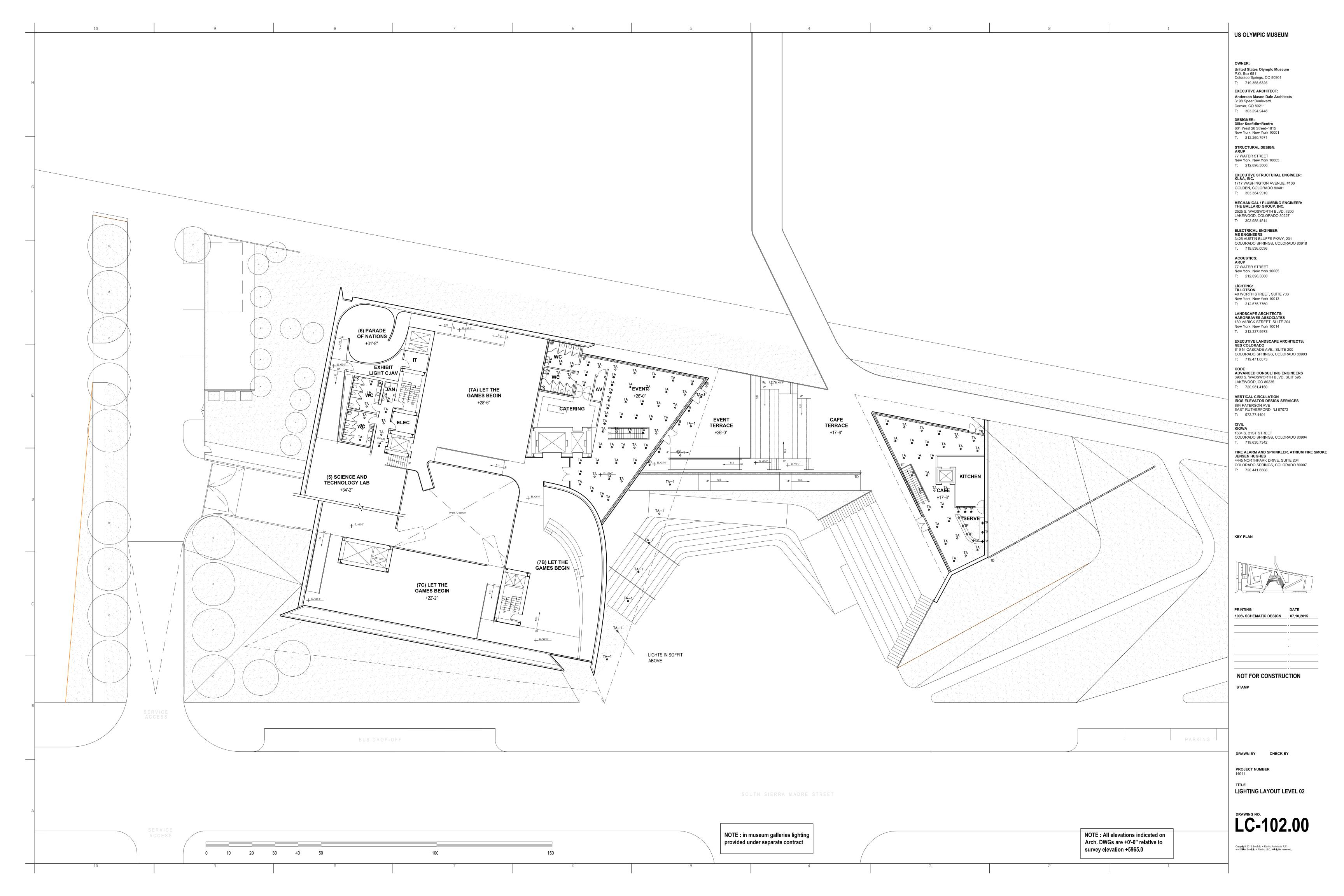
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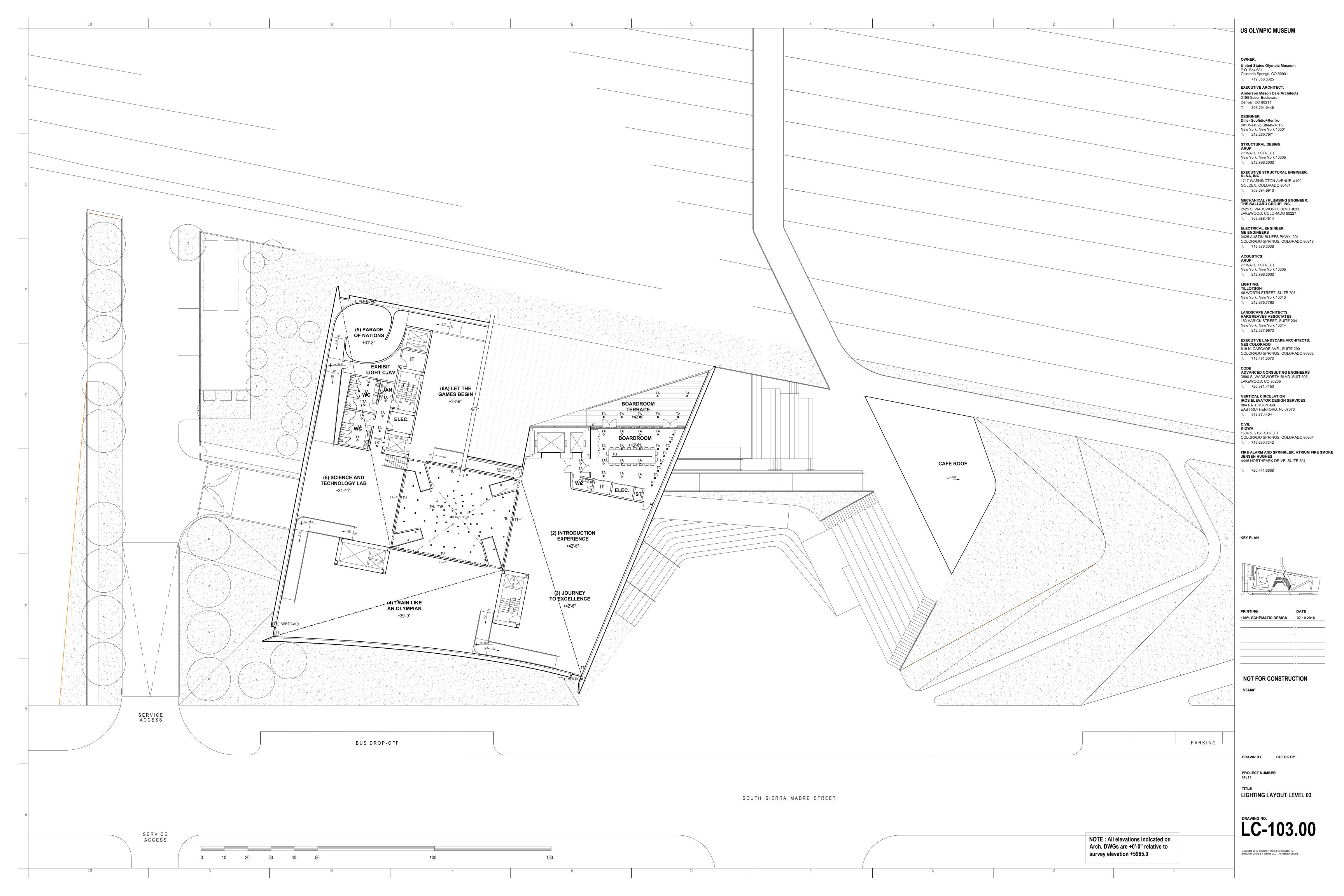
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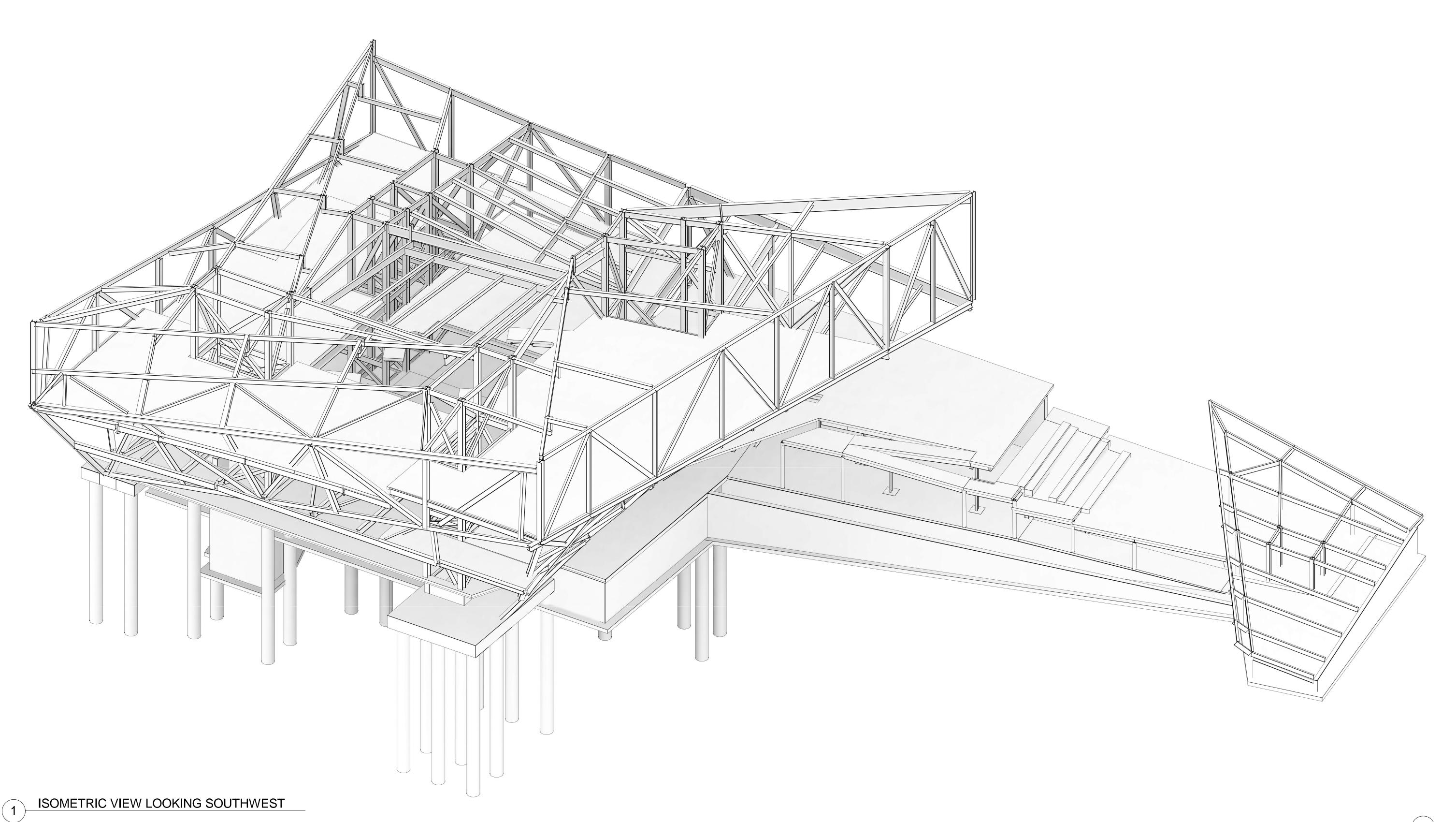








ST	STRUCTURAL SHEET LIST	
SHEET NUM	DRAWING TITLE	
S-000	COVER SHEET	
S-001	GENERAL NOTES	
S-002	FOUNDATION PLAN	
S-003	UPPER LEVEL FRAMING PLAN	
S-004	CAFE FRAMING PLAN	
S-005	PERIMETER TRUSS ELEVATIONS	
S-006	BUILDING SECTIONS	



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

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

EXHIBIT DESIGN: Gallagher and Associates 8665 Georgia Avenue Silver Spring, Maryland 20910

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LIGHTING: TILLOTSON 40 WORTH STREET, SUITE 703 New York, New York 10013 T: 212.675.7760

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VERTICAL CIRCULATION IROS ELEVATOR DESIGN SERVICES

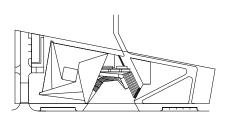
884 PATERSON AVE EAST RUTHERFORD, NJ 07073 T: 973.77.4404

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

KEY PLAN



100% SCEHMATIC DESIGN ____07.10.2015

NOT FOR CONSTRUCTION

DRAWN BY DC/SP

PROJECT NUMBER

COVER SHEET

DRAWING NO. **S-000**

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CODES AND STANDARDS

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

PROJECT DOCUMENTS

- THIS SET OF DRAWINGS, TOGETHER WITH THE SPECIFICATIONS, CONSTITUTES THE DOCUMENT BY WHICH ALL WORK IS TO BE CARRIED OUT.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AT JOB SITE. THE CONTRACTOR SHALL USE STRUCTURAL DRAWINGS IN CONJUNCTION WITH ARCHITECTURAL MECHANICAL FLECTRICAL 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.
- SCALES NOTED ON THE DRAWINGS ARE FOR GENERAL INFORMATION ONLY. NO DIMENSIONAL INFORMATION SHALL BE OBTAINED BY SCALING FROM THE DRAWINGS.
- 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
- REFER TO ARCHITECTURAL DRAWINGS FOR THE FOLLOWING
- SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS, EXCEPT AS NOTED.
- SIZE AND LOCATION OF ALL INTERIOR AND EXTERIOR NON-BEARING PARTITIONS. SIZE AND LOCATION OF ALL CONCRETE CURBS. FLOOR DRAINS. SLOPES, INSERTS, ETC, EXCEPT AS SHOWN.
- FLOOR AND ROOF FINISHES

SHOWN OR NOTED

- E. DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.
- REFER TO MEP DRAWINGS FOR THE FOLLOWING:
- PIPE AND DUCT RUNS, SLEEVES, HANGERS, TRENCHES, WALL AND SLAB OPENINGS, EXCEPT AS SHOWN OR
- ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS.
- CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL OR PLUMBING FIXTURES.
- SIZE AND LOCATION OF MACHINE OR EQUIPMENT BASES, ANCHOR BOLTS FOR MOTOR MOUNTS, EXCEPT AS
- SEE SPECIFICATIONS FOR WATERPROOFING AND DAMP PROOFING.
- 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.

SUPERIMPOSED DEAD LOADS

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

SNOW LOADING:

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

WIND LOADING:

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

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		В
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)

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, CAFÉ, 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:

STRUC	CTURAL DEFLECTION LIMITS	S
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

THE GEOTECHNICAL ENGINEER

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.

- 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.
- 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
- 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
- CONTRACTOR SHALL PROVIDE FOR PROPER DEWATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER, SEEPAGE, ETC. SUCH ACTIVITIES SHALL NOT DAMAGE ADJACENT STRUCTURES.
- CONTRACTOR SHALL PROVIDE FOR THE INSTALLATION AND DESIGN OF ALL CRIBBING, SHEATHING AND SHORING
- 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

REQUIRED TO SAFELY AND ADEQUATELY RETAIN EXCAVATIONS, EARTH BANKS AND SUPPORT ANY EXISTING

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

- 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. 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. 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.
- TEMPORARY FROST PROTECTION SHALL BE PROVIDED DURING COLD WEATHER CONSTRUCTION FOR ALL
- 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.
- UNLESS OTHERWISE INDICATED. BACKFILL SHALL NOT BE PLACED AGAINST WALLS RETAINING EARTH (OTHER THAN CANTILEVER WALLS) LINTIL 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.
- 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.
- 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

SLABS ON GRADE

- SLABS ON GRADE SHALL BE PLACED ON MATERIAL CAPABLE OF SUSTAINING 250 PSF WITHOUT SIGNIFICANT SETTLEMENT RELATIVE TO THE BUILDING'S FOUNDATIONS.
- 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)
- 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.
- A VAPOR BARRIER ACCORDING SPECIFICATIONS SHALL BE PLACED BELOW THE COMPACTED GRANULAR LAYER.
- FOR DETAILS OF WATERPROOFING NOT SHOWN ON STRUCTURAL DRAWINGS, SEE ARCHITECTURAL DRAWINGS.
- ISOLATION JOINTS SHALL BE PROVIDED AT SLAB EDGES ABUTTING CONCRETE ELEMENTS AND CONTRACTION AND CONSTRUCTION JOINTS ACCORDING TO TYPICAL DETAILS.

REINFORCED CONCRETE

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	

- 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
- 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.
- 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
- NORMAL WEIGHT AGGREGATE SHALL CONFORM TO THE REQUIREMENTS OF ASTM C33.
- LIGHTWEIGHT AGGREGATE SHALL CONFORM TO THE REQUIREMENTS OF ASTM C330 AND ASTM C157.
- 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
- THE PROJECTING CORNERS OF COLUMNS, BEAMS, WALLS, ETC. SHALL BE FORMED WITH 3/4 INCH CHAMFER, UNLESS OTHERWISE NOTED ON ARCHITECTURAL DRAWINGS.
- 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.
- LOCATION OF CONSTRUCTION JOINTS SHALL BE AS INDICATED ON STRUCTURAL DRAWINGS. PROVIDE WATERSTOPS FOR ALL CONSTRUCTION JOINTS BELOW WATER TABLE.
- 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
- ALL REINFORCING BARS MARKED "CONTINUOUS" SHALL BE TENSION SPLICED, UNLESS OTHERWISE SHOWN ON
- ALL BARS AT NON-CONTINUOUS ENDS SHALL HAVE A STANDARD HOOK.
- PROVIDE DEVELOPMENT AND SPLICES OF REINFORCEMENT ACCORDING TO THE TYPICAL DETAIL TABLES.
- UNLESS OTHERWISE NOTED, ALL DOWELS SHALL BE FULLY DEVELOPED IN TENSION, UNLESS OTHERWISE NOTED. DOWEL TO WALLS AND COLUMNS SHALL MATCH THE CORRESPONDING REINFORCING OF THE WALL OR COLUMN.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. USE ONLY FLAT SHEETS.
- MINIMUM LAP OF WELDED WIRE FABRIC SHALL BE 6 INCHES OR ONE FULL MESH, WHICHEVER IS GREATER.
- 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 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
- MECHANICAL PIPES AND/OR ELECTRICAL CONDUITS SHALL NOT PASS THROUGH CONCRETE COLUMNS AND BEAMS, UNLESS SPECIFICALLY DETAILED ON DRAWINGS.
- NO ALUMINUM SHALL BE EMBEDDED IN CONCRETE.
- 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.
- CONCRETE CAST ON SLOPED SURFACES SHALL BEGIN AT THE LOWEST ELEVATION AND CONTINUE MONOLITHICALLY TOWARD THE HIGHER ELEVATION.

STRUCTURAL STEEL

WASHERS 3"x 3"x 3/8" THICK MINIMUM

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. 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.
- NUTS SHALL CONFORM TO ASTM A563, DH OR ASTM A194, 2H. PROVIDE WASHERS CONFORMING TO ASTM F436 AT
- 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. BOLT HOLES IN STEEL BASE PLATES SHALL BE OF THE SIZE MARKED ON DRAWINGS. PROVIDE WELDED PLATE
- 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.
- THREADED RODS SHALL HAVE THREADS CONFORMING TO UNC CLASS 2A (EXTERIOR THREADS) AND 2B (INTERNAL

WELDING MATERIALS SHALL CONFORM TO AWS D1.1. ELECTRODES SHALL HAVE A MINIMUM TENSILE STRENGTH

- OF 70 KSI AND BE LOW-HYDROGEN TYPE. WELD LENGTHS CALLED FOR ON PLANS ARE THE NET EFFECTIVE LENGTHS REQUIRED.
- 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
- 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.
- 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.
- 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.
- REFER TO SPECIFICATIONS FOR STEELWORK PROTECTION AND COATINGS.

STEEL FRAMING NOTES

- STEEL MEMBERS ARE ASSUMED TO BE VERTICAL AND DIMENSIONED TO THEIR CENTERLINE UNLESS OTHERWISE
- STEEL MEMBERS NOT LOCATED IN PLAN BY A DIMENSION LINE SHALL BE EQUALLY SPACED BETWEEN
- 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
- ALL CONNECTIONS SHALL BE COMPLETED PRIOR TO CASTING SLAB.
- 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.
- POUR STOP ANGLES SHOWN ARE MINIMUM. PROVIDE HEAVIER GAGE AND STRAPS AS REQUIRED TO ACHIEVE REQUIRED EDGE OF SLAB TOLERANCES.

- STEEL DECK AND ACCESSORIES SHALL BE FROM STEEL CONFORMING TO ASTM A1008 OR ASTM A653 WITH A
- MINIMUM VIELD STRESS OF 33 KSI GALVANIZING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A653 WITH A MINIMUM COATING OF G60.

VULCRAFT OR APPROVED EQUAL. REFER TO DRAWINGS FOR OTHER REQUIREMENTS

- DECK SHALL BE COMPOSITE AND 20 GAGE MINIMUM THICKNESS UNLESS OTHERWISE NOTED. DECK SHALL BE BY
- DECK WELDING SHALL COMPLY WITH THE BUILDING CODE AND AWS-D1.3, WITH APPROPRIATE ELECTRODES. DECK SHALL BE ATTACHED TO SUPPORTING STRUCTURAL MEMBERS BY 5/8" DIAMETER PUDDLE WELDS PLACED AT
- 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. SIDE LAPS BETWEEN ADJACENT UNITS SHALL BE FASTENED BY BUTTON PUNCHING AT 12 INCHES ON CENTER OR

EACH DECK RIB OR AT 12 INCHES ON CENTER MAX, DEPENDING ON THE DECK ORIENTATION RELATIVE TO THE

BY #10 SCREWS AT 24 INCHES ON CENTER. FOR DECK WITHOUT CONCRETE FILL, USE #10 SCREWS AT 24 INCHES

- PROVIDE 2 INCHES MINIMUM END BEARING AT DECK SUPPORTS. PROVIDE 3 INCHES MINIMUM END BEARING WHERE
- PROVIDE MISCELLANEOUS TRIMMING STEEL AS REQUIRED TO SUPPORT THE DECK WHERE NOT SPECIFICALLY

STUD SHEAR CONNECTORS

STUD SHEAR CONNECTORS SHALL CONFORM TO ASTM A108. STUDS SHALL BE NELSON FLUX FILLED SHEAR CONNECTORS OR APPROVED EQUAL.

THE STUDS SHALL BE AUTOMATICALLY END WELDED IN ACCORDANCE WITH THE MANUFACTURER'S

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

1. APPLY ALLOWANCE FOR FLOOR FRAMING, ROOF FRAMING, COLUMNS AND BRACING OVER THE FULL PLAN AREA OF THE

- 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.

STRUCTURAL SYMBOLS

I	DENOTES WIDE FLANGE COLUMN SECTION.
	DENOTES STEEL HSS COLUMN SECTION
A	DENOTES VERTICAL COLUMN ABOVE ONLY
B	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

Colorado Spring, CO 80901 T: 719.358.6325 **EXECUTIVE ARCHITECT: Anderson Mason Dale Architects** 3198 Speer Boulevard Denver, CO 80211 T: 303.294.9448

United States Olympic

P.O. Box 681

US OLYMPIC MUSEUM

New York, New York 10001 T: 212.260.7971 EXHIBIT DESIGN: Gallagher and Associates

DESIGNER: Diller Scofidio+Renfro

601 West 26 Street-1815

8665 Georgia Avenue Silver Spring, Maryland 20910 T: 301.656.7575

77 WATER STREET New York, New York 10005 T: 212.896.3000 EXECUTIVE STRUCTURAL ENGINEER:

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LIGHTING: TILLOTSON 40 WORTH STREET, SUITE 703 New York, New York 10013 T: 212.675.7760

New York, New York 10014 T: 212.337.9973 EXECUTIVE LANDSCAPE ARCHITECTS NES COLORADO 619 N. CASCADE AVE., SUITE 200

719.471.0073

COLORADO SPRINGS, COLORADO 80903

LANDSCAPE ARCHITECTS: HARGREAVES ASSOCIATES

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> 1604 S. 21ST STREET COLORADO SPRINGS, COLORADO 80904 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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DC/SP

PROJECT NUMBER

GENERAL NOTES

DRAWING NO.

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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

ROOF, SUSPENDED STEEL FLOORS AND THE LOBBY SKYLIGHT, INCLUDING THE MAIN BUILDING AND CAFÉ AREAS, **EXCLUDING THE AREA OF FLOOR AND ROOF PENETRATIONS**

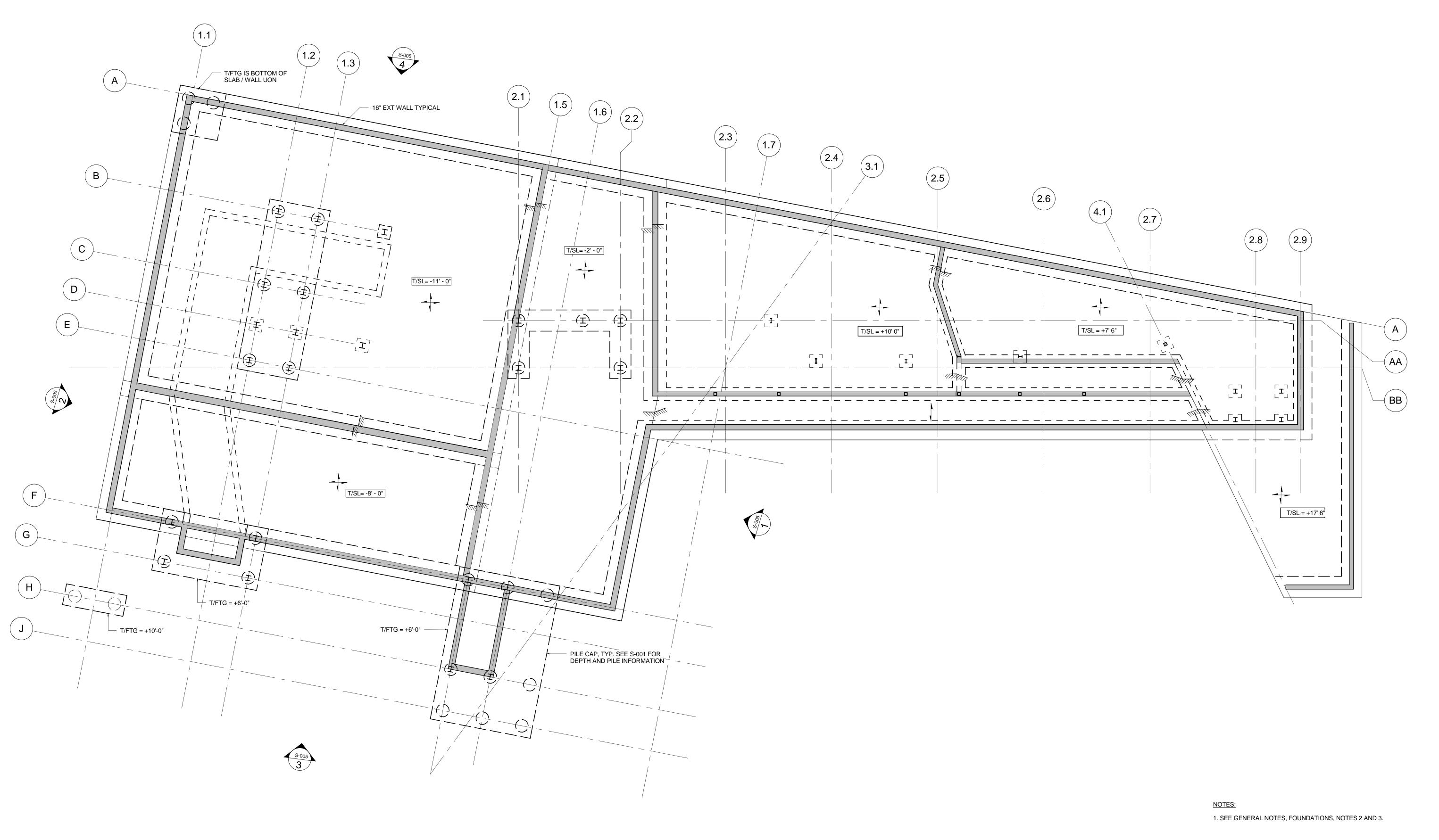
5. ALLOW FOR TYPICAL QUANTITY OF BEAM WEB PENETRATIONS. 6. SEE ARCHITECTURAL DRAWINGS FOR HANDRAILS, POSTS, TREADS, RISERS, NOSINGS AND OTHER MISCELLANEOUS

-	
	DENOTES STEEL HSS COLUMN SECTION
A	DENOTES VERTICAL COLUMN ABOVE ONLY
B	DENOTES VERTICAL COLUMN BELOW ONLY
	DENOTES TRUSS DIAGONAL THIS LEVEL ONLY
BFR	DENOTES BRACED FRAME DIAGONAL THIS LEVEL
I	DENOTES FLOOR FRAMING SUBJECTED TO VERTICAL FORCES O

DENOTES DROP IN SLAB

DENOTES SLOPED SLAB

DENOTES GEOTECHNICAL FILL



FOUNDATION PLAN - EL. -2/-11

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 Speep Boulevard

Denver, CO 80211 T: 303.294.9448 DESIGNER: Diller Scofidio+Renfro

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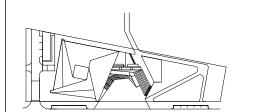
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T: 719.630.7342

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KEY PLAN



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FOUNDATION PLAN

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(1.5)2.3 T/SL= 31' - 8" T/SL= 28' - 6" 2.5 (B) (2.6)(4.1) (2.7)(c) $\left(\begin{array}{c} D \end{array}\right)$ W30 BF ABOVE / W14 W14 Ε W14 W14 W14 (BB)W24 W14 -(BB)\$ 000 P T/SL= 34' - 0" T/SL= 42' - 6" CAFE ROOF STRUCTURE BELOW. SEE S-004 FOR DETAILS GL-----T/SL= 39' - 0" <u>NOTES</u> SL 4.5" NW CONCRETE SLAB ON 3" METAL DECK (7.5" TOTAL THICKNESS) ALLOW FOR TYPICAL QUANTITY OF ELEVATORS SUPPORT STEEL AT ALL ELEVATOR SHAFTS

EL 42.5 - UPPER LEVEL FRAMING PLAN
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:

T: 719.358.6325

EXECUTIVE ARCHITECT:
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1604 S. 21ST STREET

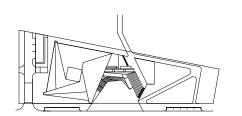
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KEY PLAN



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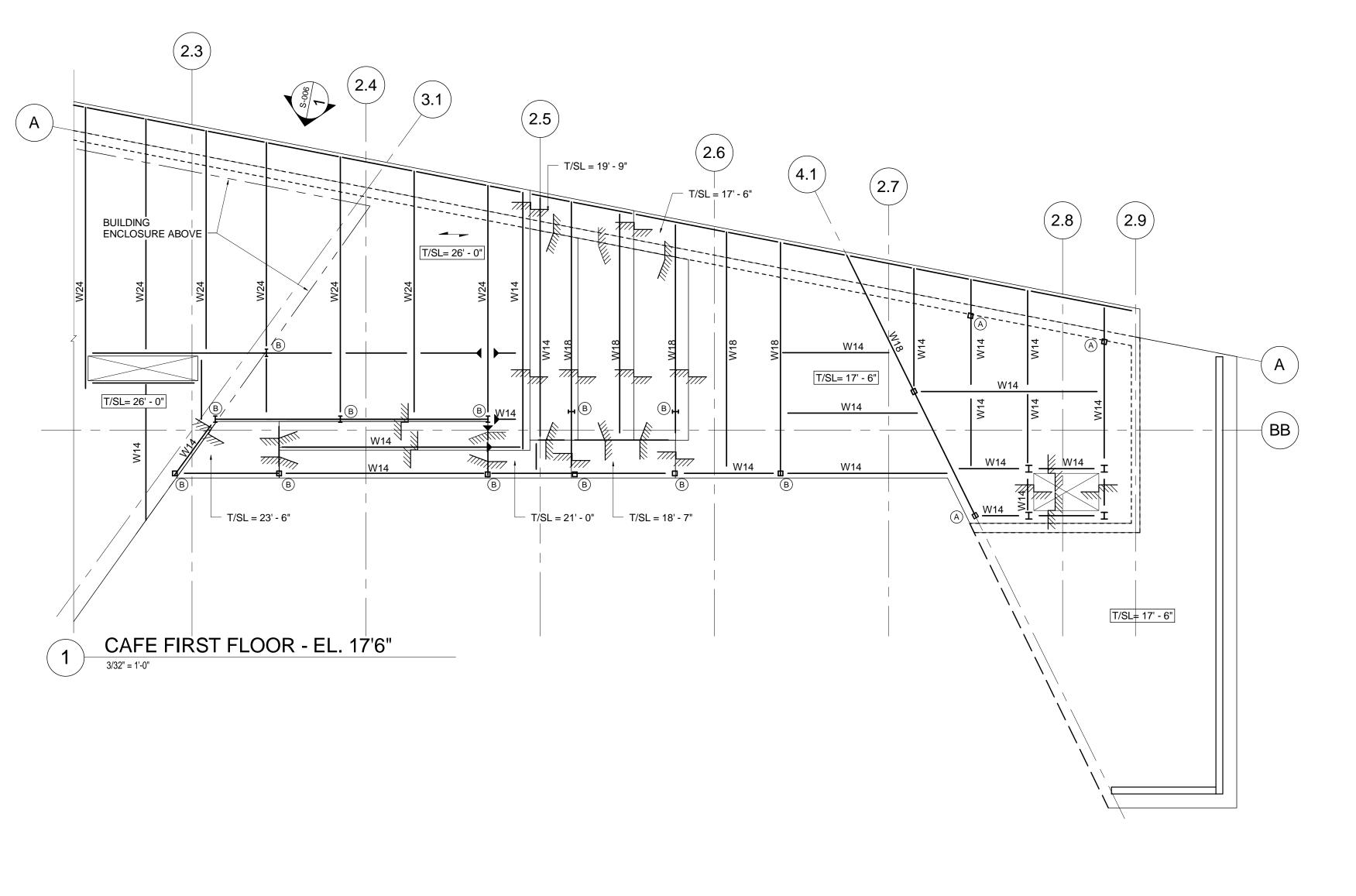
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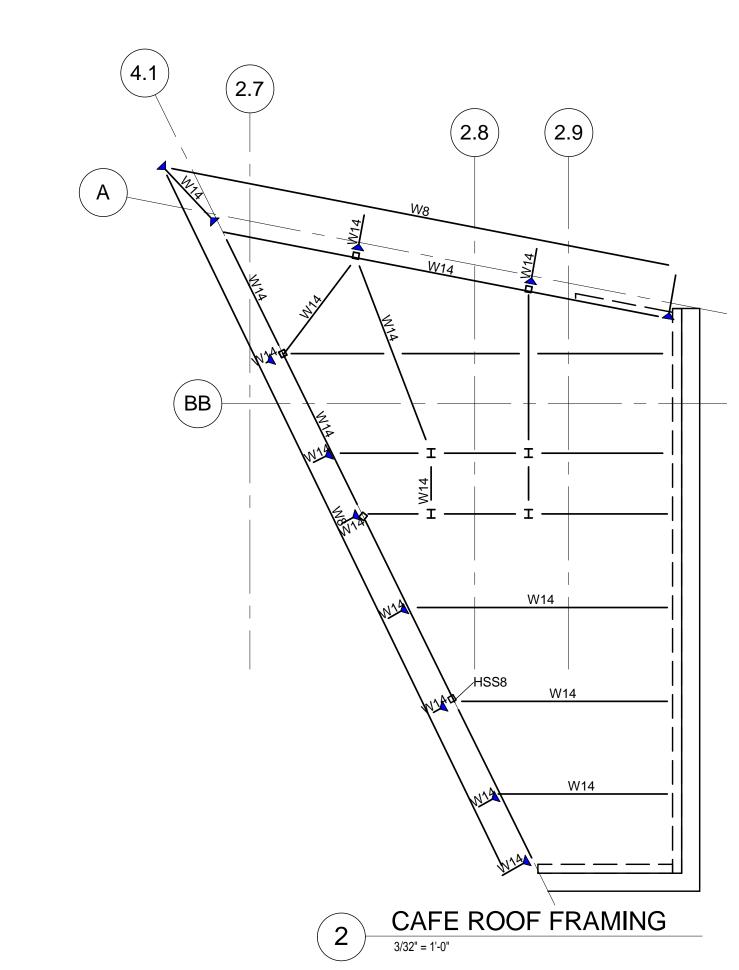
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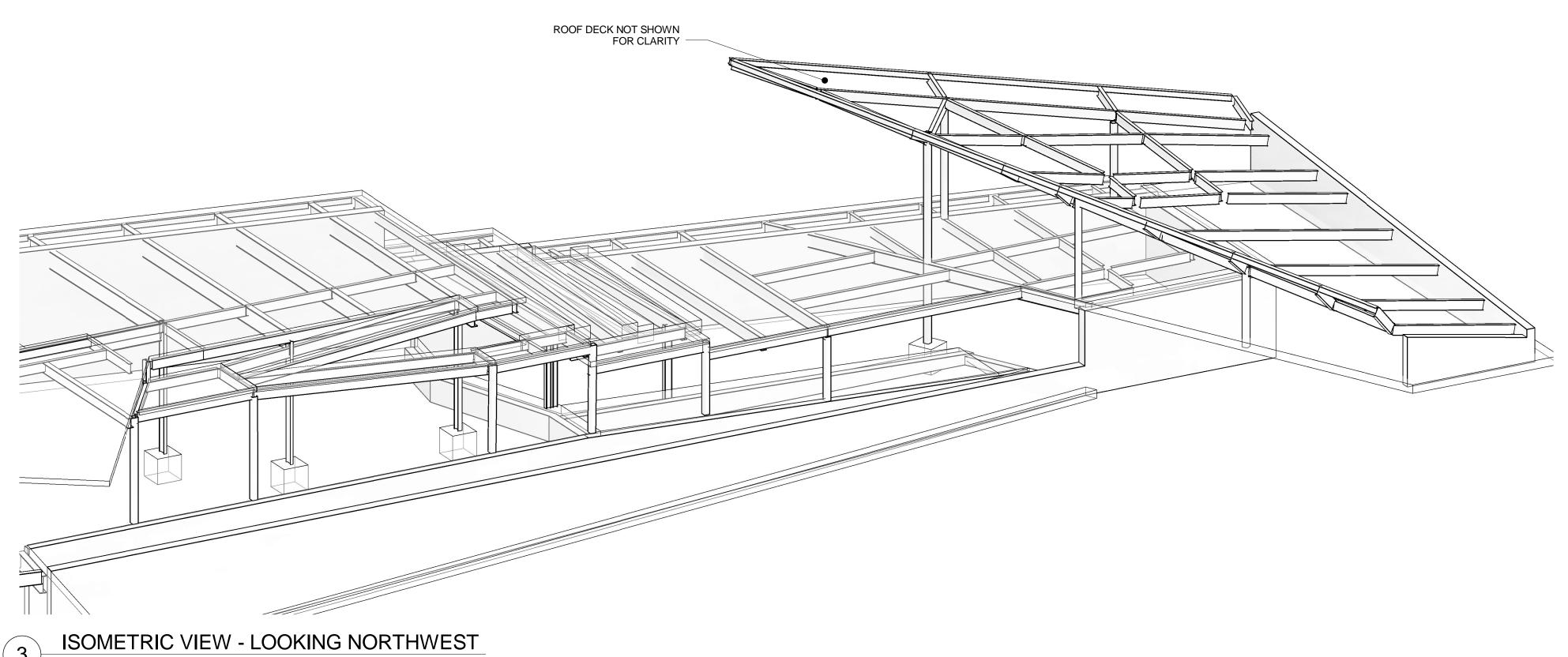
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PROJECT NUMBER

UPPER LEVEL FRAMING
PLAN
As indicated

S-003







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TITLE
CAFE FRAMING PLAN

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LAKEWOOD, CO 80235 T: 720.981.4150

CIVIL KIOWA 1604 S. 21ST STREET

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KEY PLAN

LIGHTING: TILLOTSON

ACOUSTICS: ARUP NORTH AMERICA, LTD

40 WORTH STREET, SUITE 703

EXECUTIVE ARCHITECT: Anderson Mason Dale Architects 3198 Speer Boulevard

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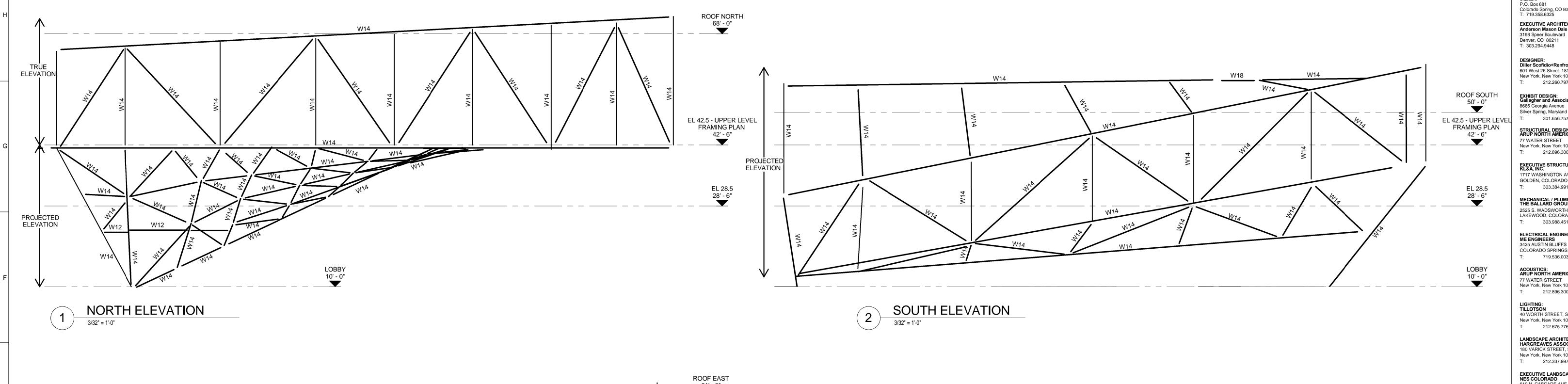
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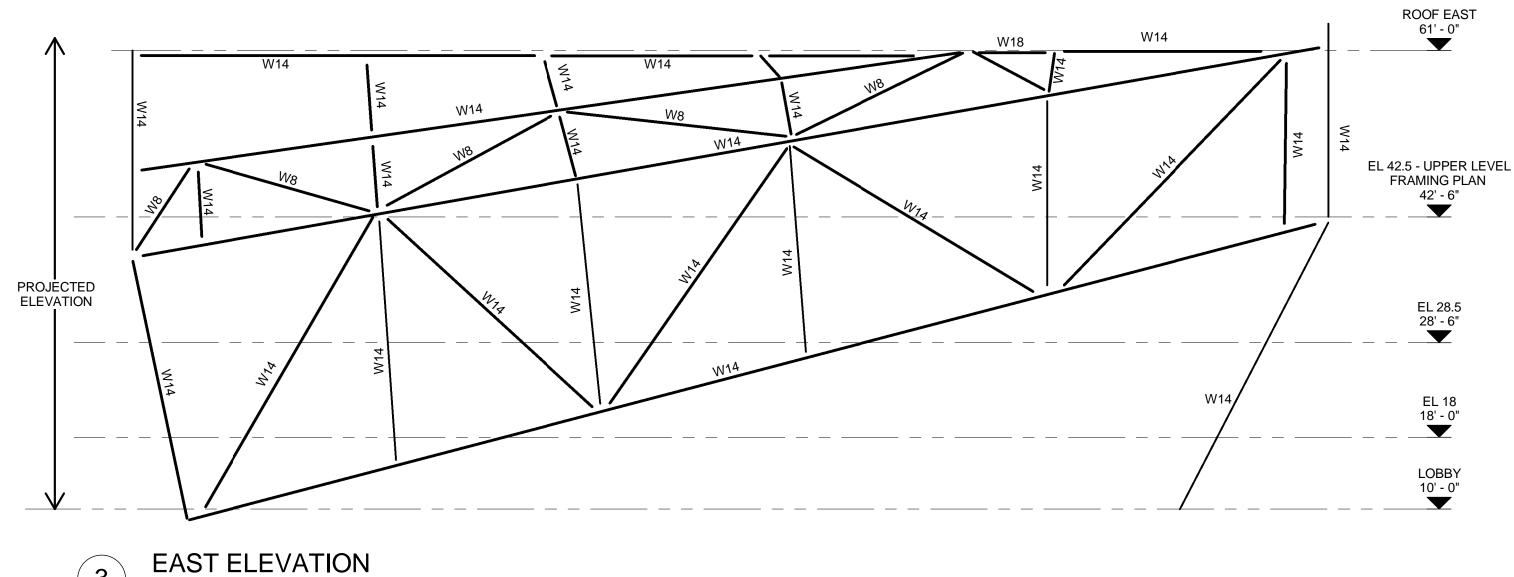
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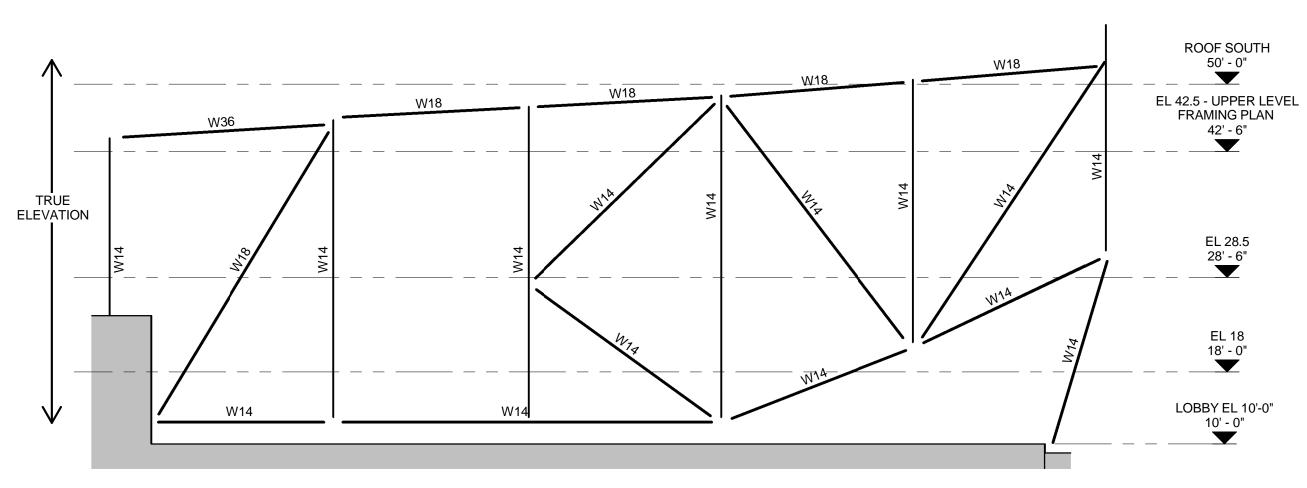
<u>OTES</u>

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







WEST ELEVATION

US OLYMPIC MUSEUM

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

EXHIBIT DESIGN: Gallagher and Associates 8665 Georgia Avenue Silver Spring, Maryland 20910

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T: 719.536.0036 ACOUSTICS: ARUP NORTH AMERICA, LTD 77 WATER STREET New York, New York 10005

T: 212.896.3000 LIGHTING: TILLOTSON 40 WORTH STREET, SUITE 703

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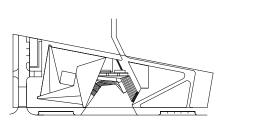
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CIVIL KIOWA 1604 S. 21ST STREET COLORADO SPRINGS, COLORADO 80904

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



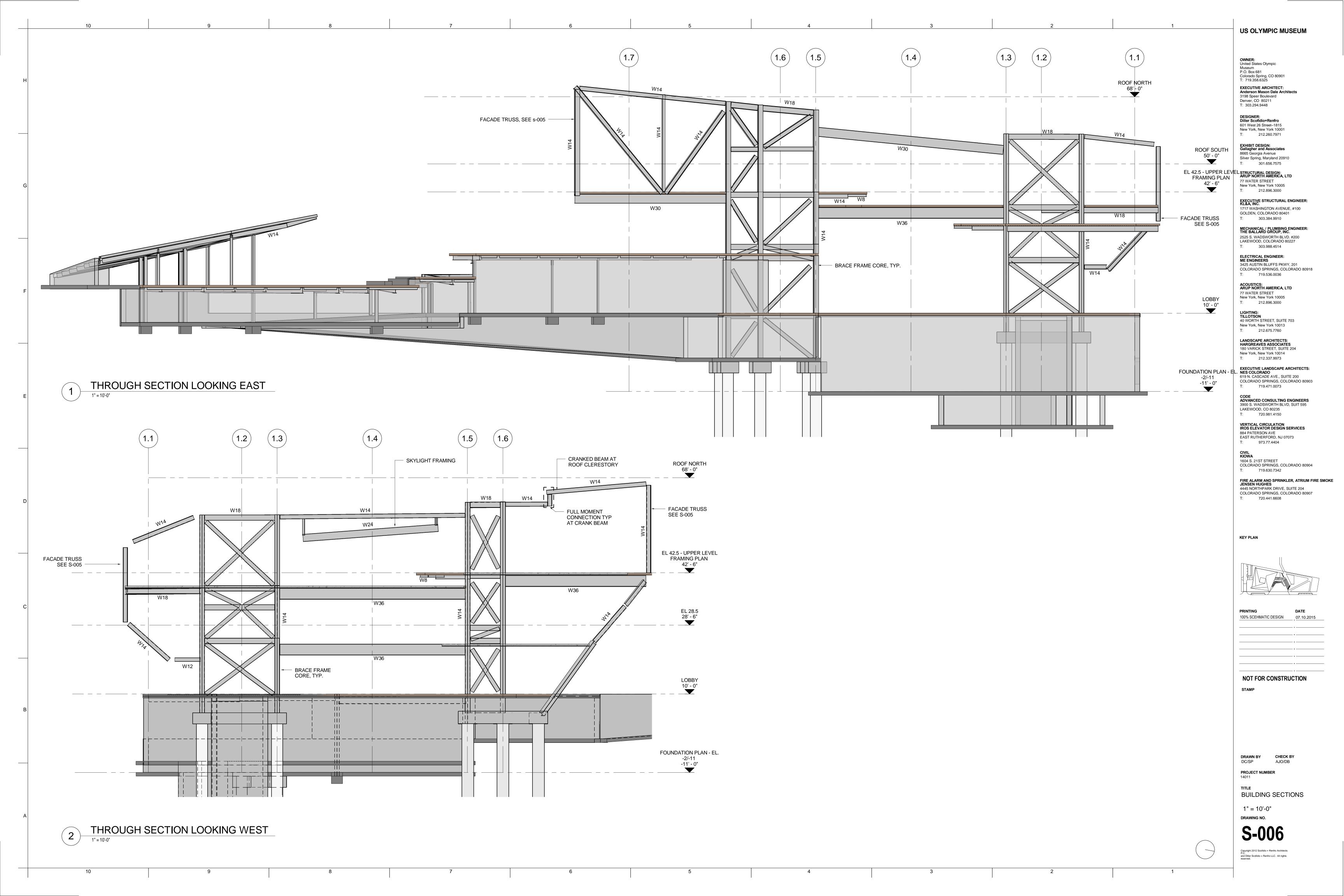
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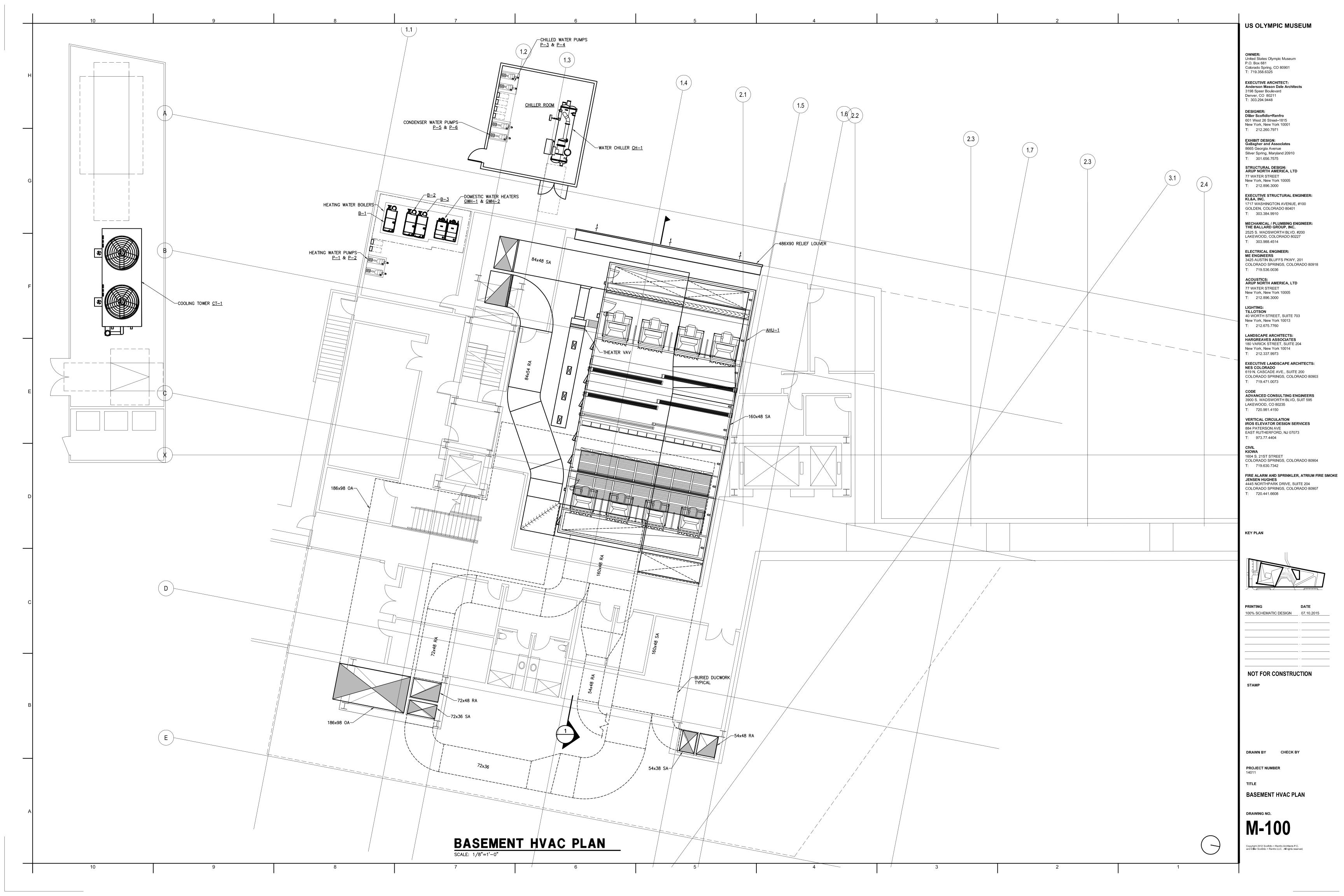
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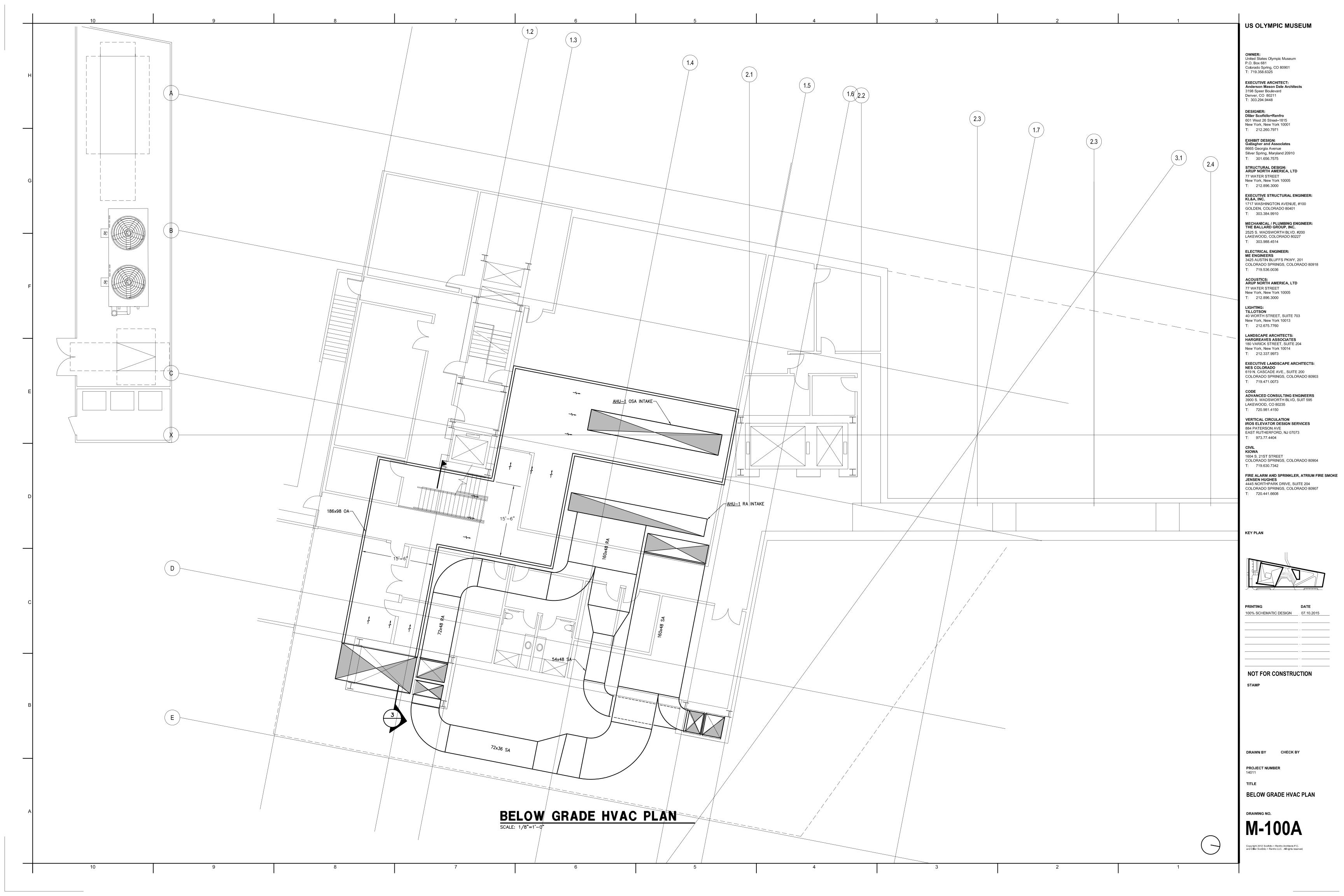
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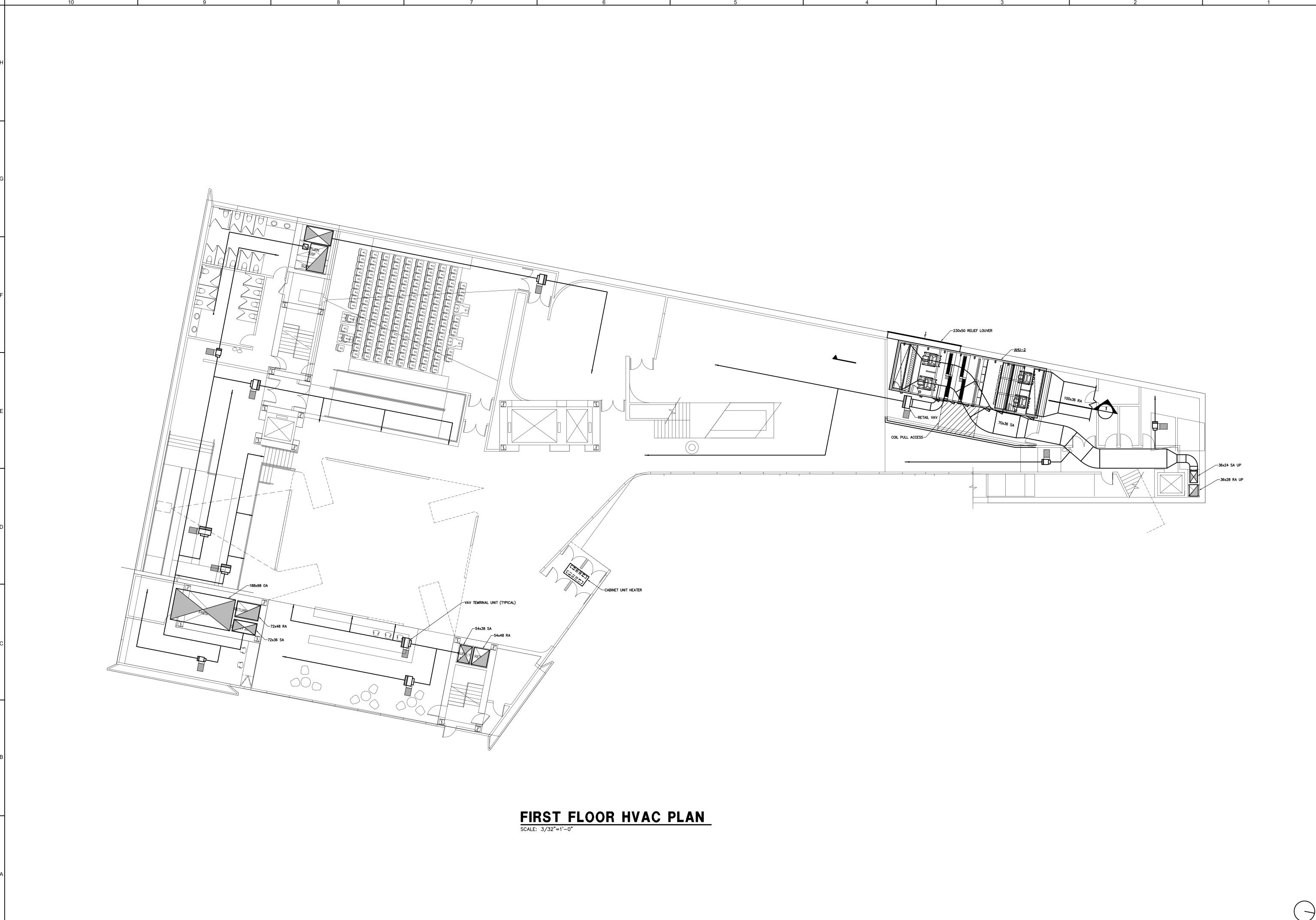
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PERIMETER TRUSS **ELEVATIONS** 3/32" = 1'-0" DRAWING NO.









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 Scofidio+Renfro 601 West 26 Street–1815 New York, New York 10001

T: 212.260.7971

EXHIBIT DESIGN: Gallagher and Associates 8665 Georgia Avenue Silver Spring, Maryland 20910

T: 301.656.7575

STRUCTURAL DESIGN: ARUP NORTH AMERICA, LTD 77 WATER STREET New York, New York 10005

T: 212.896.3000 EXECUTIVE STRUCTURAL ENGINEER: KL&A, INC.

1717 WASHINGTON AVENUE, #100 GOLDEN, COLORADO 80401 T: 303.384.9910

MECHANICAL / PLUMBING ENGINEER: THE BALLARD GROUP, INC. 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: ARUP NORTH AMERICA, LTD 77 WATER STREET New York, New York 10005 T: 212.896.3000

LIGHTING: TILLOTSON 40 WORTH STREET, SUITE 703 New York, New York 10013 T: 212.675.7760

LANDSCAPE ARCHITECTS: HARGREAVES ASSOCIATES 180 VARICK STREET, SUITE 204 New York, New York 10014 T: 212.337.9973

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

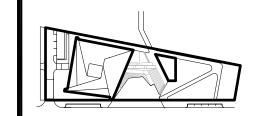
CODE ADVANCED CONSULTING ENGINEERS 3900 S. WADSWORTH BLVD, SUIT 595 LAKEWOOD, CO 80235 T: 720.981.4150

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

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

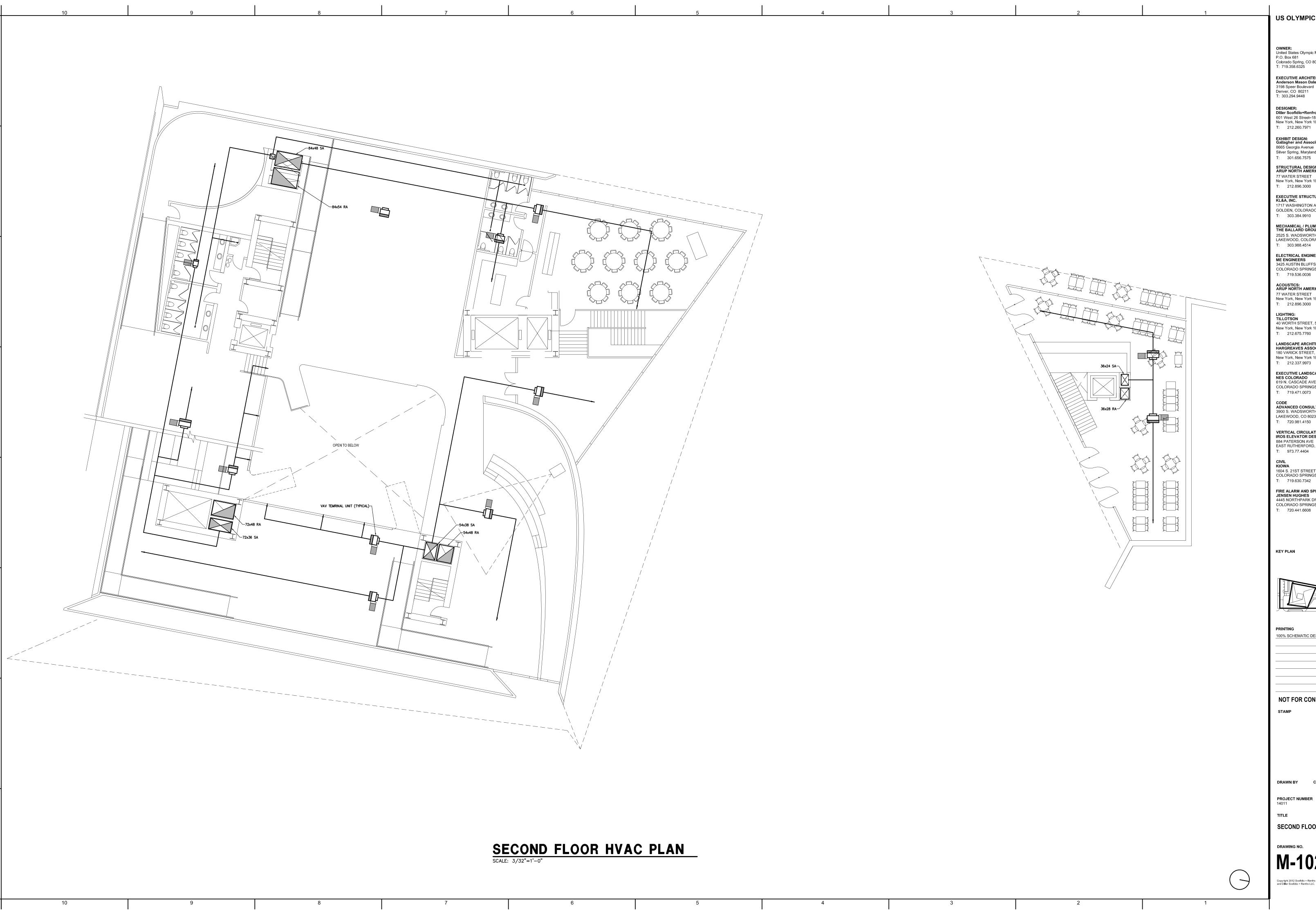


100% SCHEMATIC DESIGN . 07.10.2015

NOT FOR CONSTRUCTION

PROJECT NUMBER

FIRST FLOOR HVAC PLAN



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 Scofidio+Renfro 601 West 26 Street–1815 New York, New York 10001

EXHIBIT DESIGN: Gallagher and Associates 8665 Georgia Avenue Silver Spring, Maryland 20910

STRUCTURAL DESIGN: ARUP NORTH AMERICA, LTD 77 WATER STREET New York, New York 10005

T: 212.896.3000 EXECUTIVE STRUCTURAL ENGINEER: KL&A, INC. 1717 WASHINGTON AVENUE, #100

GOLDEN, COLORADO 80401 T: 303.384.9910

MECHANICAL / PLUMBING ENGINEER: THE BALLARD GROUP, INC. 2525 S. WADSWORTH BLVD. #200 LAKEWOOD, COLORADO 80227

ELECTRICAL ENGINEER: ME ENGINEERS 3425 AUSTIN BLUFFS PKWY, 201

COLORADO SPRINGS, COLORADO 80918 T: 719.536.0036

ACOUSTICS: ARUP NORTH AMERICA, LTD 77 WATER STREET New York, New York 10005 T: 212.896.3000

LIGHTING: TILLOTSON 40 WORTH STREET, SUITE 703 New York, New York 10013

LANDSCAPE ARCHITECTS: HARGREAVES ASSOCIATES 180 VARICK STREET, SUITE 204 New York, New York 10014

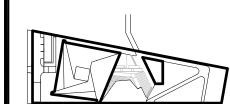
EXECUTIVE LANDSCAPE ARCHITECTS: NES COLORADO 619 N. CASCADE AVE., SUITE 200 COLORADO SPRINGS, COLORADO 80903

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

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

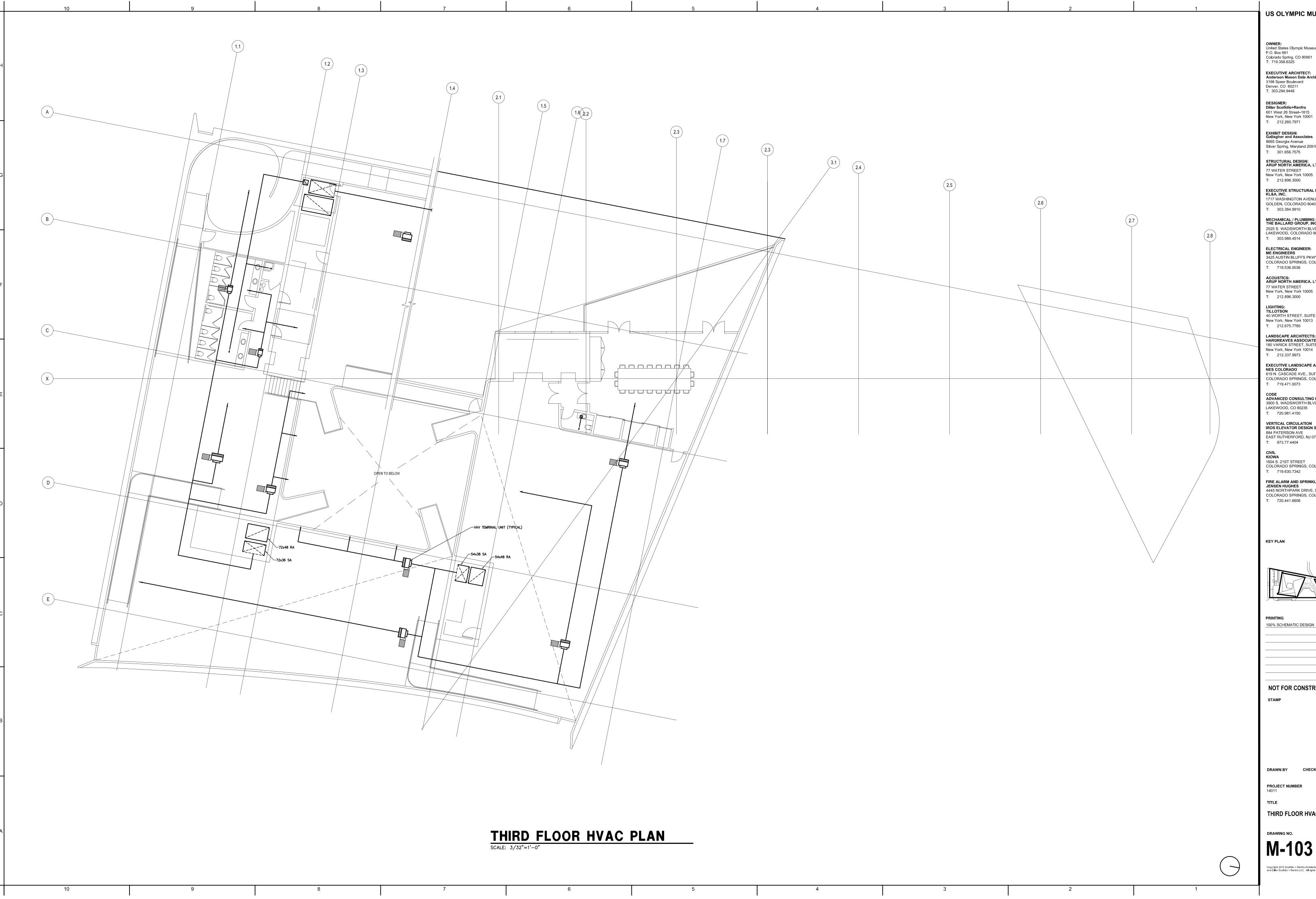
FIRE ALARM AND SPRINKLER, ATRIUM FIRE SMOKE JENSEN HUGHES 4445 NORTHPARK DRIVE, SUITE 204 COLORADO SPRINGS, COLORADO 80907 T: 720.441.6608



NOT FOR CONSTRUCTION

PROJECT NUMBER

SECOND FLOOR HVAC PLAN



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 Scofidio+Renfro 601 West 26 Street–1815 New York, New York 10001

EXHIBIT DESIGN: Gallagher and Associates 8665 Georgia Avenue Silver Spring, Maryland 20910

STRUCTURAL DESIGN: ARUP NORTH AMERICA, LTD 77 WATER STREET

New York, New York 10005 T: 212.896.3000

EXECUTIVE STRUCTURAL ENGINEER: KL&A, INC. 1717 WASHINGTON AVENUE, #100 GOLDEN, COLORADO 80401

MECHANICAL / PLUMBING ENGINEER: THE BALLARD GROUP, INC.

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: ARUP NORTH AMERICA, LTD

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

40 WORTH STREET, SUITE 703 New York, New York 10013 T: 212.675.7760

LANDSCAPE ARCHITECTS: HARGREAVES ASSOCIATES 180 VARICK STREET, SUITE 204 New York, New York 10014 T: 212.337.9973

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

1604 S. 21ST STREET COLORADO SPRINGS, COLORADO 80904

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

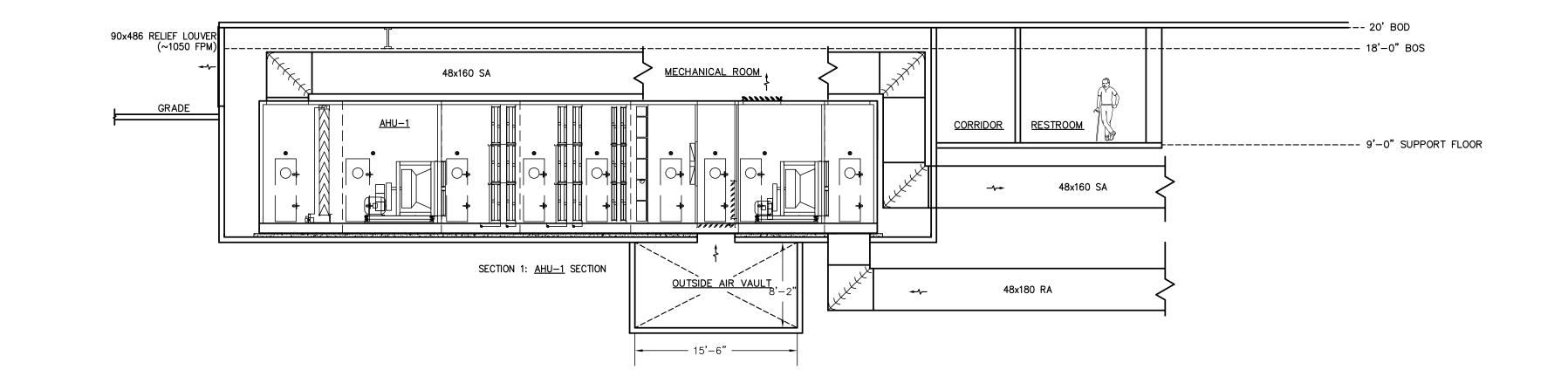


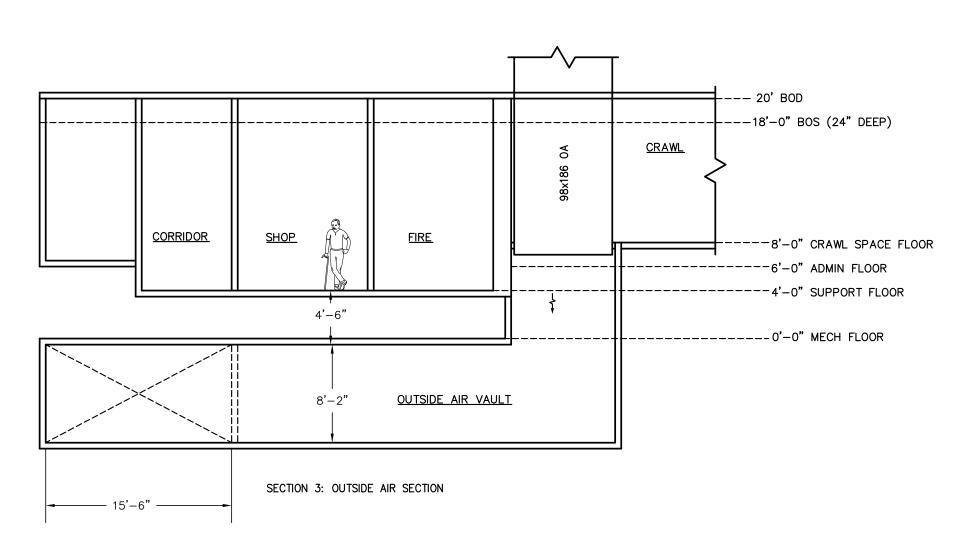
100% SCHEMATIC DESIGN 07.10.2015

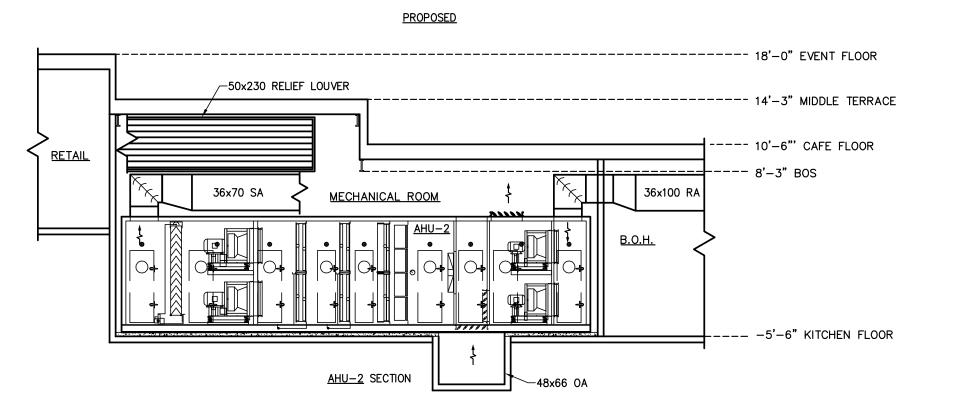
NOT FOR CONSTRUCTION

PROJECT NUMBER

THIRD FLOOR HVAC PLAN







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 Scofidio+Renfro 601 West 26 Street–1815 New York, New York 10001

T: 212.260.7971

EXHIBIT DESIGN: Gallagher and Associates 8665 Georgia Avenue Silver Spring, Maryland 20910

T: 301.656.7575 STRUCTURAL DESIGN: ARUP NORTH AMERICA, LTD 77 WATER STREET New York, New York 10005

T: 212.896.3000 EXECUTIVE STRUCTURAL ENGINEER: KL&A, INC. 1717 WASHINGTON AVENUE, #100

GOLDEN, COLORADO 80401 T: 303.384.9910 MECHANICAL / PLUMBING ENGINEER: THE BALLARD GROUP, INC.

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: ARUP NORTH AMERICA, LTD 77 WATER STREET New York, New York 10005 T: 212.896.3000

LIGHTING: TILLOTSON 40 WORTH STREET, SUITE 703 New York, New York 10013 T: 212.675.7760

LANDSCAPE ARCHITECTS: HARGREAVES ASSOCIATES 180 VARICK STREET, SUITE 204 New York, New York 10014 T: 212.337.9973

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

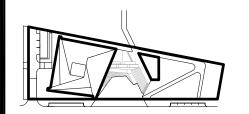
CODE ADVANCED CONSULTING ENGINEERS 3900 S. WADSWORTH BLVD, SUIT 595 LAKEWOOD, CO 80235 T: 720.981.4150 VERTICAL CIRCULATION IROS ELEVATOR DESIGN SERVICES

884 PATERSON AVE EAST RUTHERFORD, NJ 07073 T: 973.77.4404

CIVIL KIOWA 1604 S. 21ST STREET COLORADO SPRINGS, COLORADO 80904

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



100% SCHEMATIC DESIGN . 07.10.2015

NOT FOR CONSTRUCTION

DRAWN BY

PROJECT NUMBER

HVAC SECTIONS

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

INDICATED PRESSURE DROP IS NON-MARINE. INDICATED PRESSURE DROP IS NON-MARINE. PROVIDE CHILLER WITH UNIT MOUNTED STARTER. MOUNT UNIT ON SPRING ISOLATORS.

5. NPLV VALUE MUST NOT BE EXCEEDED. HIGHER VALUE WILL NOT BE ALLOWED.

				C00	LING TOWER	SCHEDULE
MANUFACTURER	TOTAL HEAT	EVAP. RATE	SUMMER AMBIENT	SUMMER CONDENSER WATER		FAN

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

MOUNT TOWER ON STEEL FRAME WITH VIBRATION ISOLATION RAILS.

UNIT DIMENSIONS AND WEIGHTS INCLUDE ACCESSORIES.

COOLING TOWER FAN TO BE CONTROLLED BY MANUFACTURER SUPPLIED UNIT MOUNTED VARIABLE FREQUENCY DRIVE.

5. SOUND POWER AS MEASURED 5'-0" FROM AIR INLET.

AIR HANDLING UNIT SCHEDULE

PROVIDE TOWER WITH ACCESS LADDER, HAND RAIL, STAINLESS STEEL HOT AND COLD WATER BASINS, ACCESS PLATFORM, AND MOTOR OUT OF AIR STREAM.

																	•																				
							F	AN DATA	(NOTE:	6)										CO	L DATA	\									FILTER D	ATA			SIZE		
PLAN	MANUF. &	AREA	FAN S	ERVICE,	FAN	FAN	CFM	CFM	T.S.P.	E.S.P.		ELECTRIC	AL	FAN		NO. OF		FACE	APD	EAT		LAT		MBH				WTR		TOTAL	FACE	INITIAL/	7%	1	NOTE: 8	WT.	REMARKS
CODE	MODEL NO.	SERVED	NO.	&	CLASS	RPM	TOTAL	OSA	@ S.L.	@ S.L.	HP	V/ø/HZ	. RPM	VIBRATION	SERVICE	ROWS/MAX	CFM	VEL.	(IN	DB '	WB	DB W	B TC	T. SEN	S. EWT	LWT GPN	A %	PD	TYPE	AREA	VEL.	FINAL P.D.	EFF.	L '	W	H (LBS)	
			WHEE	_ DIA.		@ ALT.		(MIN)	(IN. WC)	(IN. WC)				ISOLATION		FINS/INCH		(FPM)	W.C.)	(۴) ((°F) ((f) (i	F)				P.G.	(FT.)		(SQ FT.)	(FPM)	(SQ FT.)		1 '			
AHU-	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	19.0 48	3.5 488	31.2 470°	.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" 1	2'-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 -	- 427	4.2 427	.2 150.0	110.0 224.0	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	19.0 48	3.5 122	0.3 1175	.4 44.0	54.0 256.0	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 -	- 106	8.5 1068	3.5 150.0	110.0 56.0	30.0	6.9	12" CART	144.0	277.8	0.50/1.00	MERV 13	<u> </u>			3,4,5,6,8
																															I						

VARIABLE VOLUME AIR HANDLING UNIT.

HOT WATER SYSTEM UTILIZES 30% GLYCOL.

UNIT SHALL BE MOUNTED ON 4" CONCRETE HOUSEKEEPING PAD. REFER TO PLAN FOR AIR HANDLING UNIT CONFIGURATION.

- 5. REFER TO SPECIFICATIONS SECTION 15900 FOR AIR HANDLING UNIT SEQUENCE OF OPERATIONS.
- PROVIDE UNIT WITH UNIT MOUNTED SUPPLY AND RETURN FAN VARIABLE FREQUENCY DRIVES. ALL AIR HANDLING UNIT COMPONENTS SHALL BE CONNECTED TO EMERGENCY POWER.

8. PROVIDE UNIT WITH DIRECT DRIVE FANS.

Is re-heat needed?

COMPUTER ROOM AIR CONDITIONING SCHEDULE (WATER COOLED) /

INDOOR EVAPOR	INDOOR EVAPORATOR UNIT EVAPORATOR COIL										COMPRE	SSOR (WATER	COOLED)		SUPPL	Y FAN		HUMIDI	FIER	Н	OT WATE	R REHE	:AT		ELE	CTRICA	L DATA						DIMENSIONS			
PLAN LOCATION	MANUFACT.	MODEL	CFM	тот.	SENS.	E/	AT	LAT	F	ACE F	ROWS	FACE	NO.	тот.	EWT	LWT	FLOW	P.D.	CFM	ESP	RPM	H.P.	LBS/	KW	MBH	EAT	LAT	FILTER	VOLT	ø	HZ	FLA '	WSA C)PD	L W	/ H		OPER.
CODE		NO.		(MBH)	(MBH)	DB	WB	DB	WB A	REA		VEL		(MBH)	(°F)	(°F)	(GPM)	(FT)					HR			(°F)	(F)	EFF.									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
RAC-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
RAC-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
RAC-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
RAC-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
RAC-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
RAC-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
RAC-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
																												1										

COMPRESSOR SHALL BE COOLED BY STRAIGHT WATER.

UNIT TO INCLUDE ADVANCED MICROPROSSOR CONTROLLER, HOT WATER REHEAT, SMOKE DETECTOR, LIQUITECT SCROOL COMPRESSOR, NON-LOCKING ELECTRICAL DISCONNECTS AND 30% FILTERS.

•	CITI	10 IIIOLOL	JE 110 111	NAOLD MIN	31101 1103	3011 001	IIIOLLL	-iv, iio i **/\iLiv	111111111111111111111111111111111111111	, SINICIAL
	UNIT	CAPACITY	BASED	ON 72°F,	50% RH	DESIGN	ROOM	TEMPERATURE,	5200' A	ALTITUDE.

			PUM	IP S	CHE	EDUI	LE									
				IMP.					ELECT	RICAL		SI	ZE (IN)		
PLAN	MANUFACTURER	TYPE	SERVICE	DIA.	GPM	TDH	%	HP	N.O.L.	VOLT/	RPM				WT.	REMARKS
CODE	& MODEL NO.			(IN)		(FT)	EFF.	(BHP)	HP	ø/HZ		W	Н	D	(LBS)	
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

HEATING WATER SYSTEM UTILIZES 30% GLYCOL.

CHILLED WATER SYSTEM UTILIZES 30% GLYCOL. SNOWMELT WATER SYSTEM UTILIZES 50% GLYCOL.

4.	PROVIDE PUMP WITH VFD
5.	CONNECT TO EMERGENCY POWER.

					ŀ	HEA	T E	XCH	AN(SER	SCH	EDL	JLE						
PLAN	MANUFACTURER	SERVICE	WATE	R SIDE	(COLD) (NOT	E: 1)	WA ⁻	TER SID	E (HOT)	(NOTE:	1)	DIM	IENSIC	NS	NUMBER	TRANSFER AREA	OPER.	REMARKS
CODE	& MODEL NO.		MBH	GPM	WPD	EWT	LWT	MBH	GPM	WPD	EWT	LWT	Н	L	W	OF PLATES	(SQ. FT.)	WEIGHT	
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	-	ı	_	-	-	ı	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	ı	ı	ı	-	_	ı	NOTE: 3
NOTES																			

WATER PRESSURE DROP IN POUNDS PER INCH (PSI).

COLD WATER SIDE IS WATER WITH 50% GYLCOL. HOT WATER SIDE IS WATER WITH 30% GYLCOL. COLD WATER SIDE IS CONDENSER WATER. HOT WATER SIDE IS STRAIGHT WATER.

	•	. —	· -												
IDE	(COLD) (NOT	E: 1)	WA ⁻	TER SID	E (HOT)	(NOTE:	1)	DIM	ENSIO	NS	NUMBER	TRANSFER AREA	OPER.	REMARKS
М	WPD	EWT	LWT	MBH	GPM	WPD	EWT	LWT	Н	L	W	OF PLATES	(SQ. FT.)	WEIGHT	
0	2.0	100.0	125.0	1,100.0	30.0	2.0	150.0	110.0	-	-	-	ı	-	-	NOTE: 2
.0	2.0	75.0	85.0	720.0	180.0	2.0	95.0	85.0	-	-	-	ı	-	-	NOTE: 3

CONDENSING BOILER SCHEDULE MBH HEATNG | WATER | ASME | MAX SIZE (IN) EWT | LWT **FLOW** REMARKS PLAN MANUFACTURER CODE (5,200') | (GALL) | RATING | PSIG | Ø/HZ (GPM) | P.G. | & MODEL NO. AERCO BMK-3.0LN GWB HEATING WATER 160.0 75.0 460/3/60 110.0 | 150.0 NOTES: 1,2,3 B-1 B-2 HEATING WATER 3,000 55.0 160.0 75.0 460/3/60 110.0 | 150.0 170.0 NOTES: 1,2,3 AERCO BMK-3.0LN GWB 1.0 | 69" | 28" | 78" | 2,600 30 NOTES: 1,2,3 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

FAN SCHEDULE

T.S.P.

Ø S.L.

© S.L.

PROVIDE 14" GAS REGULATOR. PROVIDE NEUTRALIZATION TANK WITH LIMESTONE AND GAS PRV, PER MANUFACTURER'S RECOMMENDATIONS.

CONNECT TO EMERGENCY POWER.

MANUFACTURER

& MODEL NO.

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	1
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	ŀ
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	1
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	ŀ
									<i></i>		1	Г

SERVICE

PLAN CODE

REFER TO SPECIFICATIONS FOR VIBRATION AND SOUND ISOLATION REQUIREMENTS.

FAN SHALL BE CONNECTED TO EMERGENCY POWER. FAN SHALL BE UTILIZED FOR BUILDING RELIEF.

PROVIDE FAN WITH FACTORY DISCONNECT.

5. PROVIDE FAN WITH FACTORY FABRICATED ROOF CURB.

V/ø RPM (LBS) ISOL.

REMARKS

NOTE: 1,2,3,4

NOTE: 1,2,3,4

NOTE: 1,2,3,4

NOTE: 5

DESIGNER: Diller Scofidio+Renfro 601 West 26 Street-1815 New York, New York 10001

T: 212.260.7971

United States Olympic Museum P.O. Box 681

Colorado Spring, CO 80901

EXECUTIVE ARCHITECT: Anderson Mason Dale Architects

T: 719.358.6325

3198 Speer Boulevard Denver, CO 80211 T: 303.294.9448

US OLYMPIC MUSEUM

EXHIBIT DESIGN: Gallagher and Associates 8665 Georgia Avenue Silver Spring, Maryland 20910

T: 301.656.7575

STRUCTURAL DESIGN: ARUP NORTH AMERICA, LTD 77 WATER STREET New York, New York 10005

T: 212.896.3000 EXECUTIVE STRUCTURAL ENGINEER: KL&A, INC. 1717 WASHINGTON AVENUE, #100

GOLDEN, COLORADO 80401 Γ: 303.384.9910 MECHANICAL / PLUMBING ENGINEER: THE BALLARD GROUP, INC.

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: ARUP NORTH AMERICA, LTD 77 WATER STREET New York, New York 10005

T: 212.896.3000 LIGHTING: TILLOTSON 40 WORTH STREET, SUITE 703 New York, New York 10013 T: 212.675.7760

LANDSCAPE ARCHITECTS: HARGREAVES ASSOCIATES 180 VARICK STREET, SUITE 204 New York, New York 10014 T: 212.337.9973

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

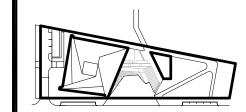
ADVANCED CONSULTING ENGINEERS LAKEWOOD, CO 80235 T: 720.981.4150

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

KIOWA 1604 S. 21ST STREET COLORADO SPRINGS, COLORADO 80904

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



100% SCHEMATIC DESIGN 07.10.2015

NOT FOR CONSTRUCTION

DRAWN BY PROJECT NUMBER

HVAC SCHEDULES

											MAC	SNETIC	BE	4RIN(G WA	ATER	CHI	LLER	SCHED	ULE												
				NPLV	FULL LOAD			(CHILLED W	ATER (NO	TE 1)				COI	NDENSEF	R WATER	(NOTE 2)				ELECTRIC	AL			REFRI	IGERANT	DIME	ENSIONS	OPER.	1	
PLAN	MANUFACT.	CAPACITY	EFFIC.	EFFIC.	SOUND	EWT	LWT	DESIGN	MIN.	WPD	FOULING	NO. OF	%	EWT	LWT	GPM	WPD	FOULING	NO. OF	STARTER	VOLTS/		PRIMARY	MCA	OPD	TYPE	CHARGE	Н	L W] wt	VIBR.	REMARKS
CODE	MODEL NO.	(TONS)	(KW/TON)	(KW/TON)	(dBA)	(°F)	(°F)	GPM	GPM	(FT)	FACTOR	PASSES	P.G.	(°F)	(°F)		(FT)	FACTOR	PASSES		ø/HZ	KW	RLA				(LBS)			(LBS)	ISOL.	
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" 1	4'-1" 4'-7"	13,500	NOTE: 4	NOTE: 3,5
																											1					
NOTES:	•	•	•	-	•	•	•	•	•	•	•		•	•					•	•	•	•	•	•	•							-

5. NPLV VALUE MUST NOT BE EXCEEDED. HIGHER VALUE WILL NOT BE ALLOWED.

									C	COOL	ING	TOWE	R S	CHED	ULE								
	MANUFACTURER		TOTAL HEAT	EVAP. RATE	SUMMER	AMBIENT	SUMM	ER CONDEN	ISER WAT	ER				FAN				DIMENSIONS	NOTE: 2)	VIBRATION	SOUND	
PLAN	& MODEL NUMBER	TYPE	REJECTION (MBH)	(GPM)	DB	WB	EWT	LWT	GPM	WPD	CFM	HP	RPM	DIA	NO. OF BLADES	V/ø/HZ	HEIGHT	LENGTH	WIDTH	WEIGHT	ISOLATION	(DBA)	REMARKS
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 VIBRA'	TION ISOLATION RAILS.			3.	COOLING TOWER	FAN TO BE	CONTROLLED E	BY MANUFAC	CTURER SUF	PPLIED UNIT	MOUNTED V	ARIABLE FRI	EQUENCY DR	RIVE.			5.	SOUND POWE	R AS MEASURE	D 5'-0" FROM AIR IN	LET.	

HEATING WATER SYSTEM UTILIZES 30% GLYCOL.

CHILLED WATER SYSTEM UTILIZES 30% GLYCOL.

SNOWMELT WATER SYSTEM UTILIZES 50% GLYCOL.

PROVIDE TOWER WITH ACCESS LADDER, HAND RAIL, STAINLESS STEEL HOT AND COLD WATER BASINS, ACCESS PLATFORM, AND MOTOR OUT OF AIR STREAM.

		H	HEA ⁻	ΓΕ	XCH	ANG	ER	SCH	HEDI	JLE	(PL	ATE	Al	ND	FR	RAME)			
PLAN	MANUFACTURER	SERVICE	WATE	R SIDE	(COLD) (NOTI	E: 1)	WA ⁻	TER SID	E (HOT)	(NOTE:	1)	DIM	ENSIO	NS	NUMBER	TRANSFER AREA	OPER.	REMARKS
CODE	& MODEL NO.		MBH	GPM	WPD	EWT	LWT	MBH	GPM	WPD	EWT	LWT	Н	L	W	OF PLATES	(SQ. FT.)	WEIGHT	
HX-1	ALFA LAVAL	SNOWMELT	1,100.0	88.0	-	100.0	125.0	1,100.0	55.0	_	150.0	110.0	-	1	ı	_	_	1	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	-	-	ı	-	_	1	NOTE: 3
<u>NOTES:</u> 1.	WATER PRESSURE DROP	IN POUNDS PER IN	ICH (PSI).																

PROVIDE CHILLER WITH UNIT MOUNTED STARTER.

MOUNT UNIT ON SPRING ISOLATORS.

1. INDICATED PRESSURE DROP IS NON-MARINE.

2. INDICATED PRESSURE DROP IS NON-MARINE.

UNIT DIMENSIONS AND WEIGHTS INCLUDE ACCESSORIES.

COLD WATER SIDE IS WATER WITH 50% GYLCOL. HOT WATER SIDE IS WATER WITH 30% GYLCOL.

COLD WATER SIDE IS CONDENSER WATER. HOT WATER SIDE IS STRAIGHT WATER.

			MBH	HEATNG	WATER	ASME	MAX					WATER			S	IZE (II	1)	OPER	
PLAN	MANUFACTURER	SERVICE	INPUT			` ′	OPER	VOLT/	MCA	EWT	LWT	FLOW	%		L	W	Н	WT.	REMARK
CODE	& MODEL NO.		S.L.	(5,200')	(GALL)	RATING	PSIG	ø/HZ		(°F)	(°F)	(GPM)	P.G.	(FT)				(LBS)	
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
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
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

			PUM	P S	CHE	DUL	E									
				IMP.					ELECTF	RICAL		SI	ZE (N)		
PLAN	MANUFACTURER	TYPE	SERVICE	DIA.	GPM	TDH	%	HP	N.O.L.	VOLT/	RPM				WT.	REMARKS
CODE	& MODEL NO.			(IN)		(FT)	EFF.	(BHP)	HP	ø/HZ		w	H	D	(LBS)	
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

4. PROVIDE PUMP WITH VFD

5. CONNECT TO EMERGENCY POWER.

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 Scofidio+Renfro 601 West 26 Street–1815 New York, New York 10001

T: 212.260.7971

EXHIBIT DESIGN:
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8665 Georgia Avenue

8665 Georgia Avenue Silver Spring, Maryland 20910 T: 301.656.7575

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STRUCTURAL DESIGN:
ARUP NORTH AMERICA, LTD

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MECHANICAL / PLUMBING ENGINEER: THE BALLARD GROUP, INC. 2525 S. WADSWORTH BLVD. #200 LAKEWOOD, COLORADO 80227

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LIGHTING: TILLOTSON 40 WORTH STREET, SUITE 703 New York, New York 10013 T: 212.675.7760

LANDSCAPE ARCHITECTS:
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180 VARICK STREET, SUITE 204
New York, New York 10014
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EXECUTIVE LANDSCAPE ARCHITECTS:
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619 N. CASCADE AVE., SUITE 200
COLORADO SPRINGS, COLORADO 80903
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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

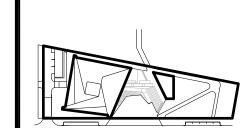
KIOWA
1604 S. 21ST STREET
COLORADO SPRINGS, C

T: 719.630.7342

FIRE ALARM AND SPRINKLER, ATRIUM FIRE JENSEN HUGHES

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

NOT FOR CONSTRUCTION

STAMP

DRAWN BY CHECK BY

PROJECT NUMBER

TITLE
HVAC SCHEDULES

M-601

A,AMP AMPERE ABOVE COUNTER OR ALTERNATING CURRENT ADA AMERICANS WITH DISABILITIES ACT AMPERE FUSE/FRAME AFF ABOVE FINISHED FLOOR AFG ABOVE FINISHED GRADE AMPERE INTERRUPTING CAPACITY ALUMINUM ALTERNATE ANN **ANNUNCIATOR** AMERICAN NATIONAL STANDARDS INSTITUTE ANSI AMPERE SWITCH AMPERE TRIP AUTOMATIC TRANSFER SWITCH ATS AUTOMATIC AUX AUXILIARY AMERICAN WIRE GAUGE BARE COPPER

AWG BFC BELOW FINISHED CEILING BFG BELOW FINISHED GRADE BKR BREAKER BLDG BUILDING CONDUIT

COAXIAL

COAX

DEMAR

EGC

ELEV

ΕM

EMT

HPF

HPS

INCAND

J-BOX

KCMIL

ΚV

ΚW

LCL

LPF

LTG

FΗ

COMMUNITY ANTENNA TV (CABLE TV) CATV CAB CABINET CAM CAMERA CB CIRCUIT BREAKER CERTIFIED BALLAST MANUFACTURERS CBM CCTV CLOSED CIRCUIT TELEVISION CONTRACTOR FURNISHED, CONTRACTOR INSTALLED CFCI CFL CKT COMPACT FLUORESCENT LAMP CIRCUIT CLG CEILING CO CONDUIT ONLY

COMBINATION COMB COND CONDUCTOR CONT CONTRACTOR OR CONTINUATION CURRENT TRANSFORMER CU COPPER **DECIBEL** DIRECT BURIAL DB DIRECT CURRENT

DISC DISCONNECT DIST DISTRIBUTION DAMP LABEL DVR DIGITAL VIDEO RECORDER DWG DRAWING EXISTING TO REMAIN

DEMARCATION

ELECTRICAL CONTRACTOR OR EMPTY CONDUIT EQUIPMENT GROUNDING CONDUCTOR ELECTRICALLY HELD ELECTRIC OR ELECTRICAL ELEVATOR

EOL FIRE ALARM END OF LINE RESISTOR EPO EMERGENCY POWER OFF EQUIP EQUIPMENT EXISTING TO BE RELOCATED ELECTRIC WATER COOLER EWC

ELECTRIC METALLIC TUBING

EMERGENCY

FIRE ALARM FACP FIRE ALARM CONTROL PANEL FIRE ALARM ANNUNCIATOR PANEL FBO FURNISHED BY OTHERS FOOTCANDLES FDR FEEDER

FULL LOAD AMPERES FLEX FLEXIBLE CONDUIT FLR FLOOR **FLUORESCENT FLUOR** FIBER OPTIC

FATC FIRE ALARM TERMINAL CABINET FUSE OR FUSED G,GND GROUND GUAGE GALV GALVANIZED GENERAL CONTRACTOR GEN GENERATOR

GROUND FAULT CIRCUIT INTERRUPTER GFI, GFCI GRC GALVANIZED RIGID CONDUIT HORIZONTAL CROSS CONNECT HD HEAVY DUTY HAND HOLE HIGH INTENSITY DISCHARGE HID HOA HAND-OFF-AUTOMATIC HP HORSEPOWER

> HIGH POWER FACTOR HIGH PRESSURE SODIUM HERTZ (CYCLES/SECOND) INTERCOM OR INTERMEDIATE CROSS-CONNECT INSIDE DIAMETER

INTERMEDIATE DISTRIBUTION FRAME ISOLATED GROUND INTERMEDIATE GRADE METALLIC CONDUIT INCANDESCENT JUNCTION BOX THOUSAND OF CIRCULAR MILLS KILOVOLT

KILOVOLT-AMPERE KVA KILOWATT ΚWH KILOWATT-HOUR LOCAL AREA NETWORK LAN LONG CONTINUOUS LOAD LED LIGHT EMITTING DIODE LIQUIDTIGHT FLEXIBLE CONDUIT LARGEST MOTOR LOAD

LOW POWER FACTOR

LIGHTING LOW VOLTAGE

ABBREVIATIONS MAG MAGNETIC MAX MAXIMUM MECHANICAL CONTRACTOR OR MAIN CROSS CONNECT MAIN CIRCUIT BREAKER MCC MOTOR CONTROL CENTER MCP MOTOR CIRCUIT PROTECTOR MDF MAIN DISTRIBUTION FRAME MDP MAIN DISTRIBUTION PANEL MECHANICAL MECH MANUFACTURER MOTOR GENERATOR МН MANHOLE OR METAL HALIDE MIN MINIMUM 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 ΜV MEDIUM VOLTAGE NEUTRAL NORMALLY CLOSED NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NON-FUSED NATIONAL FIRE PROTECTION ASSOCIATION NOT IN CONTRACT VIGHT LIGHT NORMALLY OPEN NTS NOT TO SCALE ON CENTER OD OUTSIDE DIAMETER OFCI OWNER FURNISHED. CONTRACTOR INSTALLED OFOI OWNER FURNISHED, OWNER INSTALLED OSHA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION OUTSIDE PLANT PUBLIC ADDRESS PΒ PUSH BUTTON OR PULL BOX PBX PRIVATE BRANCH EXCHANGE PHOTOELECTRIC POWER FACTOR PHASE PANEL PNL PAIRS PRIMARY PROXIMITY POTENTIAL TRANSFORMER PAN, TILT, ZOOM CAMERA PTZPOLYVINYL CHLORIDE PVC PWR POWER QUARTZ RESTRIKE EXISTING TO BE REMOVED RE RELOCATED EXISTING RECEPTACLE REQ'D REQUIRED RIGID GALVANIZED STEEL RM ROOM RIGID METALLIC CONDUIT RMC RIGID NON-METALLIC CONDUIT RPM REVOLUTIONS PER MINUTE SHORT-CIRCUIT AMPERES SHORT-CIRCUIT CURRENT RATING SECURITY CONTROL PANEL SEC SECONDARY OR SECOND SECT SECTION SHT SMFO SINGLE-MODE FIBER OPTIC SERVICE PROVIDER SPD SURGE PROTECTION DEVICE SPDT SINGLE POLE, DOUBLE THROW SPST SINGLE POLE, SINGLE THROW SHUNT TRIP STP SHIELDED TWISTED PAIR STD STANDARD SYS SYSTEM SW SWITCH SWITCHBOARD SWBD TELECOMMUNICATIONS BONDING BACKBONE

TBB

TELCO

TEMP

TMGB

TGB

UC

UG

UON

UPS

UTP

VFD

W/O

WHM

WPL

XFMR

TELCOM

TELEPHONE

ROOM

TIME SWITCH

TELEVISION

UNDER COUNTER

UNDER GROUND

VOLT-AMPERE

VAPOR PROOF

WATT

WITH

WITHOUT

WATT HOUR

WATERTIGHT

TRANSFORMER

WATT HOUR METER

EXPLOSION PROOF

WEATHERPROOF

TYPICAL

TELEPHONE COMPANY

TELECOMMUNICATIONS

THERMAL OVERLOAD

TEMPORARY OR TEMPERATURE

TELEPHONE TERMINAL BOARD

UNDERWRITER LABORATORIES

UNINTERRUPTIBLE POWER SUPPLY

UNLESS OTHERWISE NOTED

UNSHIELDED TWISTED PAIR

REACTIVE VOLT-AMPERES

VARIABLE FREQUENCY DRIVE

WITHSTAND CURRENT RATING

WEATHERPROOF LOCKABLE ENCLOSURE

TELECOMMUNICATIONS GROUND BUS

MAIN TELECOMMUNICATIONS GROUND BUS

TAMPER RESISTANT OR TELECOMMUNICATIONS

TELEPHONE TERMINAL CABINET OR CLOSET

SYMBOL

 $\langle X \rangle$

NON-FUSED DISCONNECT SWITCH

CIRCUIT BREAKER DISCONNECT

MAGNETIC MOTOR STARTER

MOLDED CASE CIRCUIT BREAKER

SHUNT TRIP CIRCUIT BREAKER

VARIABLE FREQUENCY DRIVE

AUTOMATIC TRANSFER SWITCH

TRANSFORMER (DELTA TO GROUND WYE)

ISOLATION TRANSFORMER

HEIGHTS SHOWN ARE TYPICAL TO CENTERLINE OF BOX

CONTRACTOR SHALL ENSURE THAT MOUNTING HEIGHTS

DOORS, DEVICE SHALL BE CENTERED BETWEEN TOP OF

2. MOUNTING HEIGHTS SHOWN ON ARCHITECTURAL

COMPLY WITH CURRENT ADA REQUIREMENTS.

ELEVATIONS SHALL GOVERN OVER THOSE SHOWN

WHEREVER DEVICES ARE INDICATED TO BE ABOVE

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.

UNLESS OTHERWISE NOTED.

DOOR TRIM AND CEILING LINE.

VERIFY HEIGHTS WITH ARCHITECT

FUSED SWITCH W/ GROUND FAULT AND

NON-FUSED SWITCH

FUSED SWITCH

SHUNT TRIP

DISCONNECT

CONTACTOR

FUSED DISCONNECT SWITCH W/ AMP FUSE AND AMP FRAME

COMBINATION MAGNETIC STARTER AND CIRCUIT BREAKER

MOLDED CASE CIRCUIT BREAKER WITH GROUND FAULT

ENGINE GENERATOR SET W/ NEUTRAL GROUND, ENGINE

NON-FUSED DISCONNECT SWITCH IN SEPERATE ENCLOSURE

MOLDED CASE CIRCUIT BREAKER IN SEPERATE ENCLOSURE

STARTING CONTACTS AND MAIN CIRCUIT BREAKER

ONE-LINE SYMBOLS POWER DEVICES DESCRIPTION SYMBOL DESCRIPTION $\top \top$ GROUNDING BUS BAR BRANCH CIRCUIT PANELBOARD NON-FUSED DISCONNECT SWITCH BRANCH CIRCUIT PANELBOARD W/ MAIN CIRCUIT BREAKER FUSED DISCONNECT SWITCH ENCLOSED CIRCUIT BREAKER PANEL BOARD PROVISION FOR METER LIGHTING CONTROL PANEL / CONTROL PANEL GROUND TRANSFORMER MOTOR PAD MOUNTED TRANSFORMER FEEDER IDENTIFIER SYMBOL

> ANNOTATION LEGEND DESCRIPTION SYMBOL KEYED NOTE TAG \bigcirc XXXX EQUIPMENT NAME TAG IDENTIFIES SINGLE OR MULTIWIRE BRANCH CIRCUITS (THREE CIRCUITS SHOWN) IN HOMERUN TO PANEL AA.

TOP OF CABINET <u>TOP OF CABINET</u> NOTE: ALL DEVICES INDICATED TOP OF CABINET TO BE INSTALLED AT DIFFERENT MOUNTING HEIGHTS AND LOCATED WITHIN ONE STUD SPACE FROM EACH OTHER SHALL ALIGN VERTICALLY, ON THE SAME SIDE OF THE STUD. WHERE WALL MOUNTED TELEPHONES OCCUR OVER LIGHT SWITCHES, VOLUME CONTROLS, ETC. OFFSET ONE STUD SPACE. FINISHED FLOOP TYPICAL DEVICE MOUNTING HEIGHTS SCALE: NONE

GENERAL ELECTRICAL REQUIREMENTS

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.)

AMENDMENTS.

ALL CEILING ATTACHED OBJECTS AND FLOOR ATTACHED EQUIPMENT GENERAL LIGHTING, MULTIPLE RACEWAYS, GENERATORS, TRANSFORMERS, ELECTRICAL SWITCHGEAR, AND SWITCHBOARDS SHALL BE INSTALLED IN BY STATE AND LOCAL CODES AND PER STRUCTURAL ENGINEERS RECOMMENDATIONS.

SWITCH OR BREAKER EXCEED 6'-6" AFF.

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 OF THE PROJECT. THE CONTRACTOR SHALL VISIT THE SITE BEFORE SUBMITTING COSTS TO BECOME THOROUGHLY FAMILIAR WITH THE ACTUAL CONDITIONS OF THE PROJECT.

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,

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.

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: 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

. "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.

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.

O. WHERE DISCONNECTS ARE INDICATED ON DRAWINGS CONTRACTOR SHALL

US OLYMPIC MUSEUM

nited States Olympic Museum

Anderson Mason Dale Architects

Colorado Spring, CO 80901 T: 719.358.6325

EXECUTIVE ARCHITECT:

3198 Speer Boulevard

Diller Scofidio+Renfro

Γ: 212.260.7971

8665 Georgia Avenue

T: 301.656.7575

77 WATER STREET

Γ: 212.896.3000

601 West 26 Street-1815

EXHIBIT DESIGN: Gallagher and Associates

Silver Spring, Maryland 20910

STRUCTURAL DESIGN: ARUP NORTH AMERICA, LT

New York, New York 10005

GOLDEN, COLORADO 80401

303.384.9910

303.988.4514

FI FCTRICAL ENGINEER:

719.536.0036

77 WATER STREET

Γ: 212.896.3000

TILLOTSON

ACOUSTICS: ARUP NORTH AMERICA, LTD

New York, New York 10005

40 WORTH STREET, SUITE 703

New York, New York 10013

LANDSCAPE ARCHITECTS

New York, New York 10014

HARGREAVES ASSOCIATES

80 VARICK STREET, SUITE 204

EXECUTIVE LANDSCAPE ARCHITECTS

COLORADO SPRINGS, COLORADO 80903

ADVANCED CONSULTING ENGINEERS

IROS ELEVATOR DESIGN SERVICES

1445 NORTHPARK DRIVE, SUITE 204

COLORADO SPRINGS, COLORADO 80907

100% SCHEMATIC DESIGN . 07.10.2015

NOT FOR CONSTRUCTION

CHECK BY

DRAWN BY

PROJECT NUMBER

NO SCALE

ELECTRICAL LEGEND

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DO SPRINGS, COLORADO 80904

FIRE ALARM AND SPRINKLER, ATRIUM FIRE SMOKE

EAST RUTHERFORD, NJ 07073

319 N. CASCADE AVE., SUITE 200

T: 212.675.7760

Γ: 212.337.9973

719.471.0073

LAKEWOOD, CO 80235

VERTICAL CIRCULATION

720.981.4150

884 PATERSON AVE

973.77.4404

1604 S. 21ST STREET

Γ: 719.630.7342

720.441.6608

KEY PLAN

ME ENGINEERS

EXECUTIVE STRUCTURAL ENGINEER KL&A, INC.

717 WASHINGTON AVENUE, #100

MECHANICAL / PLUMBING ENGINEER: THE BALLARD GROUP, INC.

2525 S. WADSWORTH BLVD. #200

425 AUSTIN BLUFFS PKWY, 201

COLORADO SPRINGS, COLORADO 80918

LAKEWOOD, COLORADO 8022

Denver, CO 80211

T: 303.294.9448

DESIGNER:

P.O. Box 681

THE DISCONNECTING MEANS FOR ALL MECHANICAL EQUIPMENT SHALL BE ACCESSIBLE AND HAVE THE CLEARANCE IN FRONT AS REQUIRED BY NEC

INCLUDING BUT NOT LIMITED TO PENDANT LIGHTING FIXTURES, CHANDELIERS, ACCORDANCE WITH SUPPORTING OBJECTS FOR SEISMIC ZONE AS REQUIRED

ALL SWITCHGEAR, SWITCHBOARDS AND TRANSFORMERS SHALL HAVE A 4 INCH HOUSE KEEPING PAD. UNDER NO CONDITION SHALL THE HIGHEST

SUB-CONTRACTOR FROM COORDINATING HIS WORK WITH ALL OTHER TRADES AND FROM ADJUSTING HIS WORK AS REQUIRED BY THE ACTUAL CONDITIONS

DEFINITIONS:

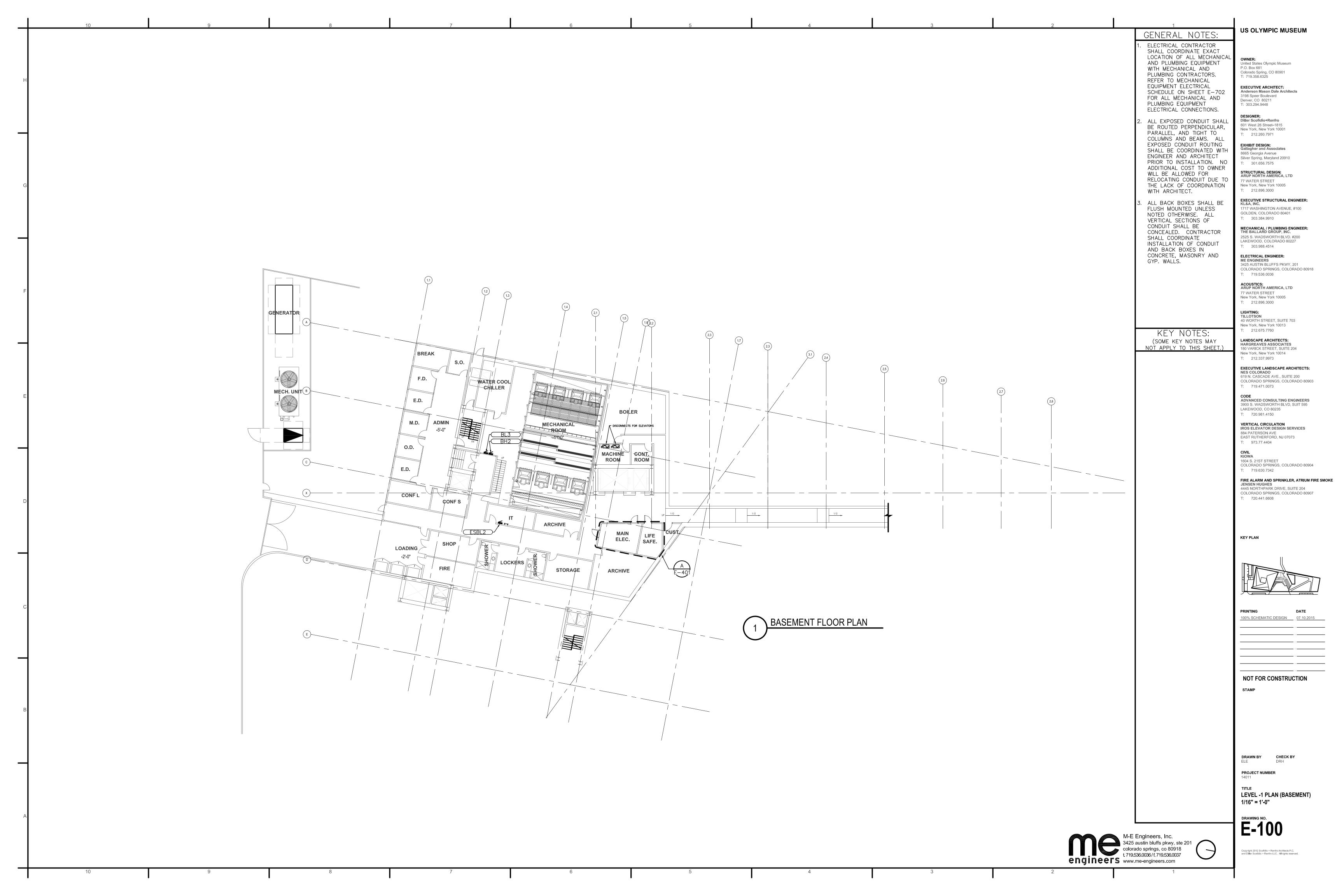
a. "FURNISH" MEANS TO "SUPPLY" AND USUALLY REFERS TO AN ITEM OF EQUIPMENT.

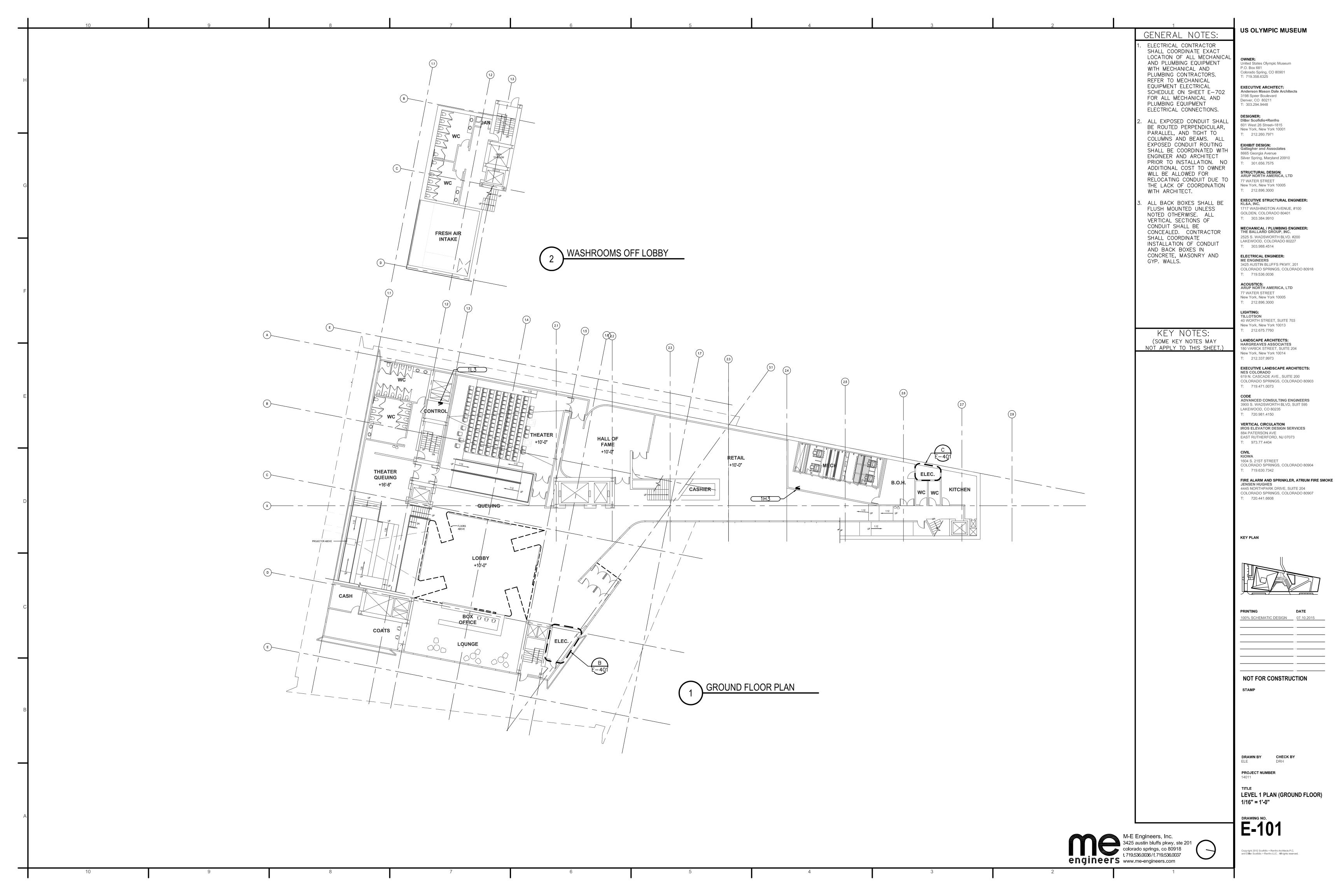
b. "INSTALL" MEANS TO "SET IN PLACE, CONNECT AND PLACE IN FULL

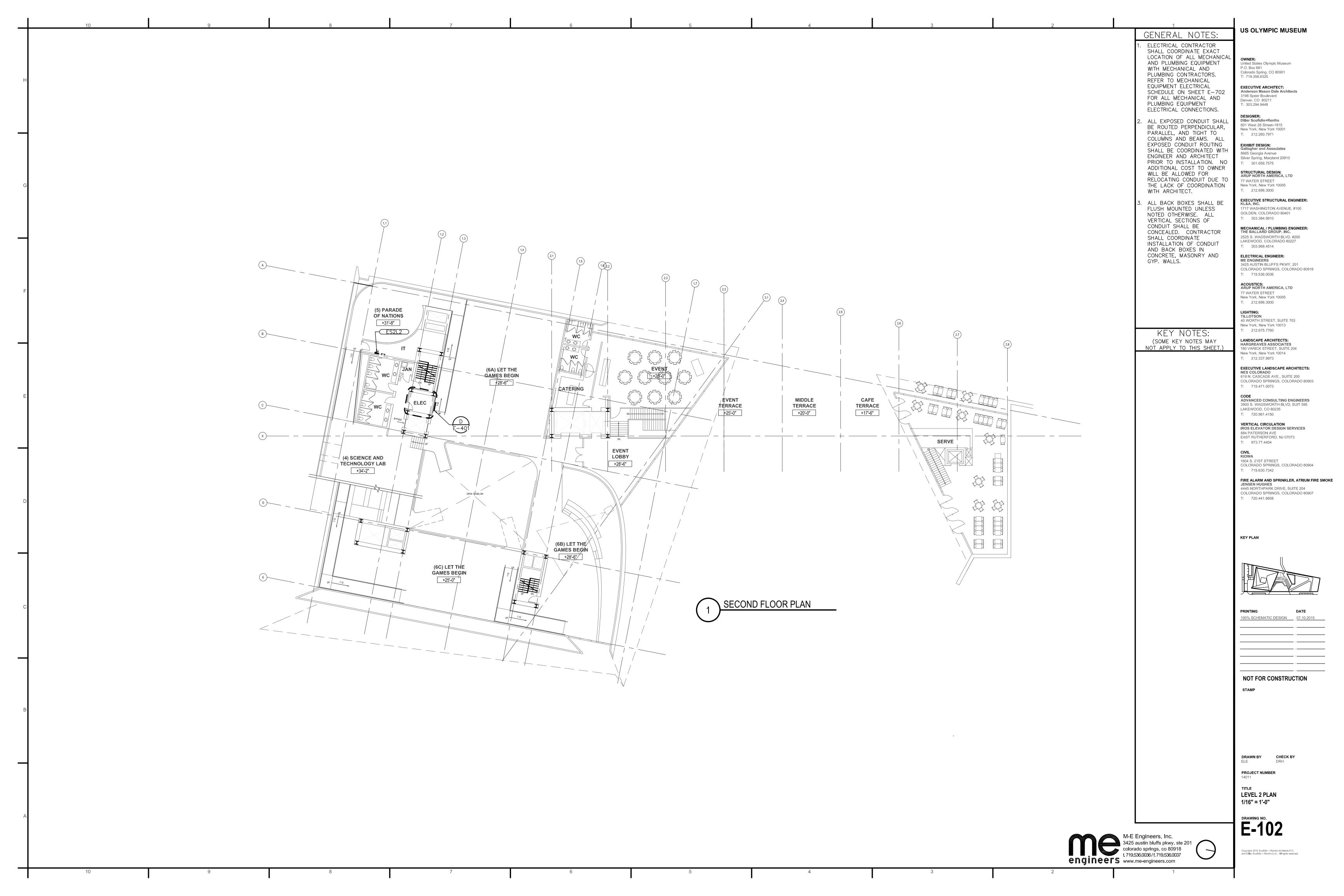
REQUIRED, CONSULT ARCHITECT BEFORE START OF WORK.

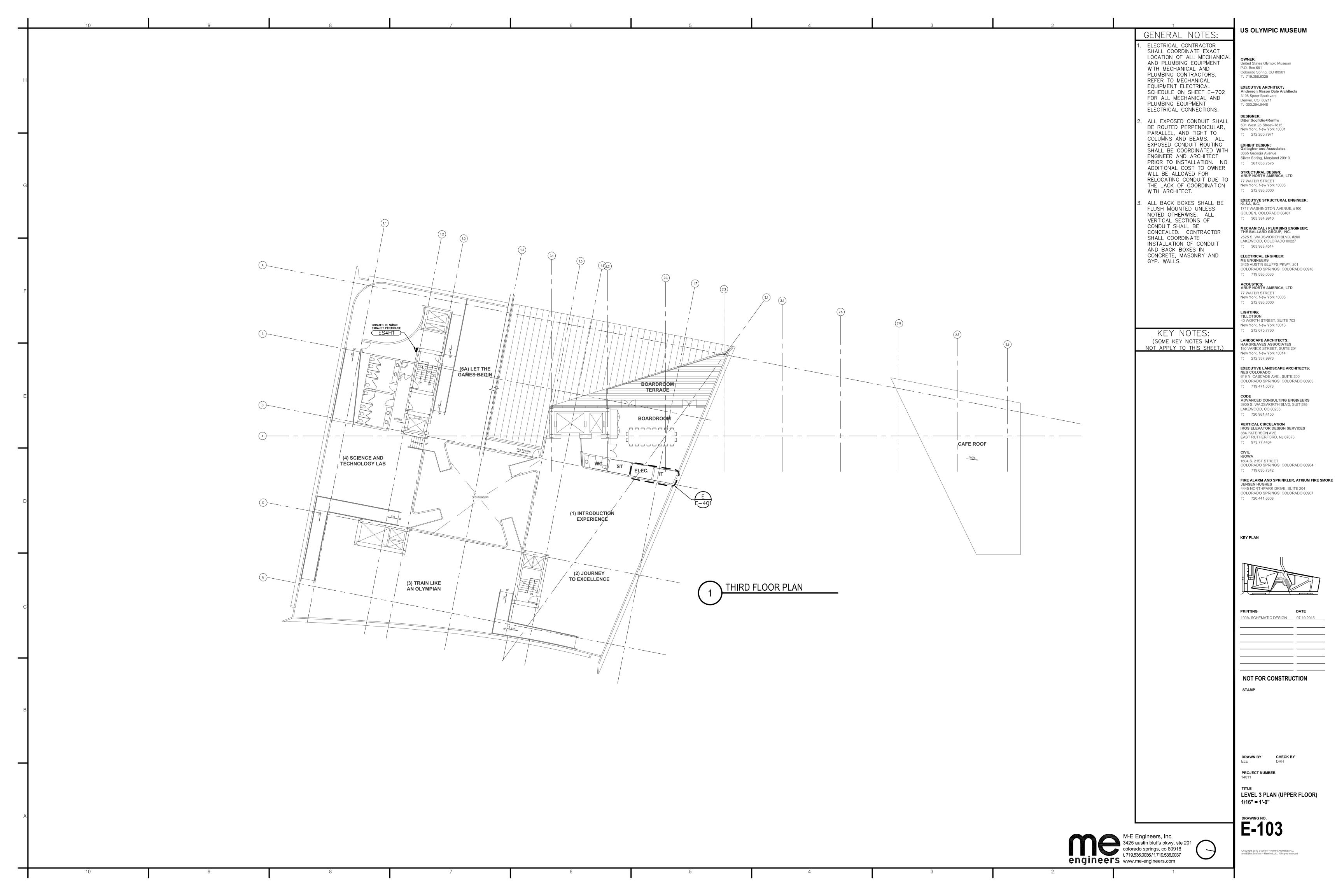
PROVIDE FINAL CONNECTION TO EQUIPMENT BEING SERVED BY DISCONNECT.

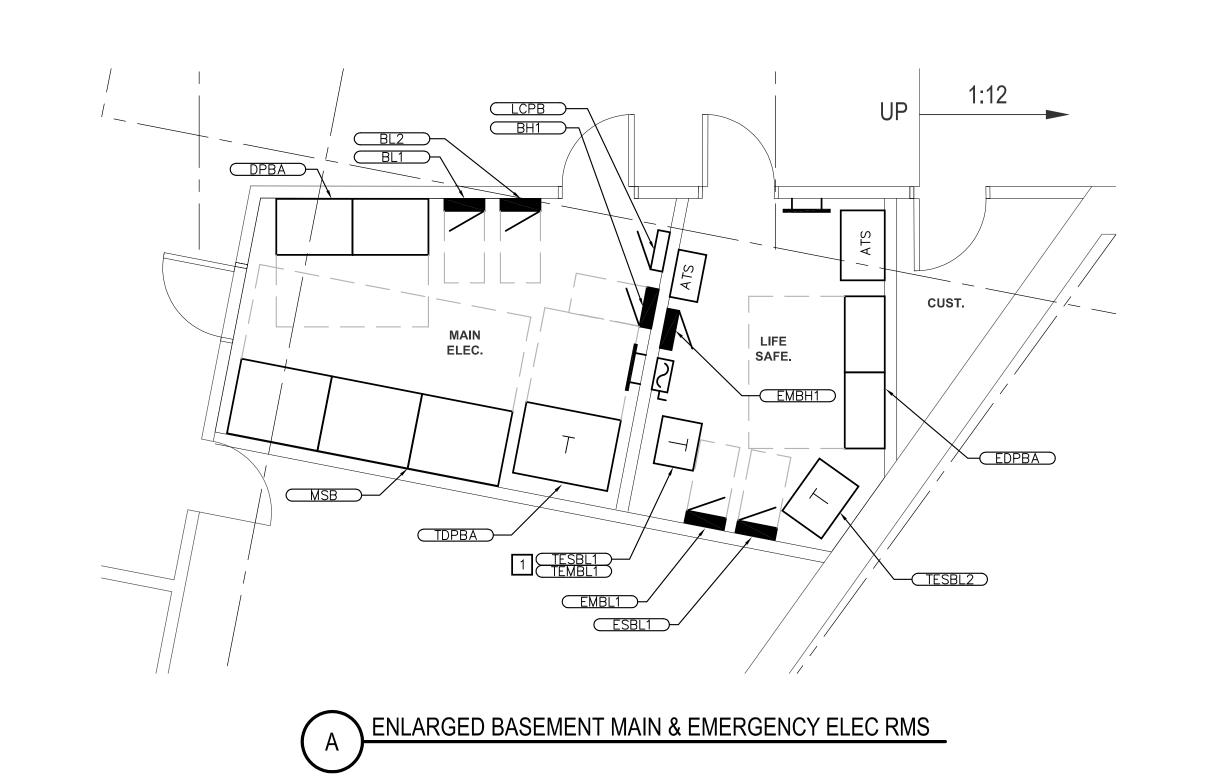
M-E Engineers, Inc. 3425 austin bluffs pkwy, ste 2 colorado springs, co 80918 t 719.536.0036/f.719.536.0037 3425 austin bluffs pkwy, ste 201 engineers www.me-engineers.com

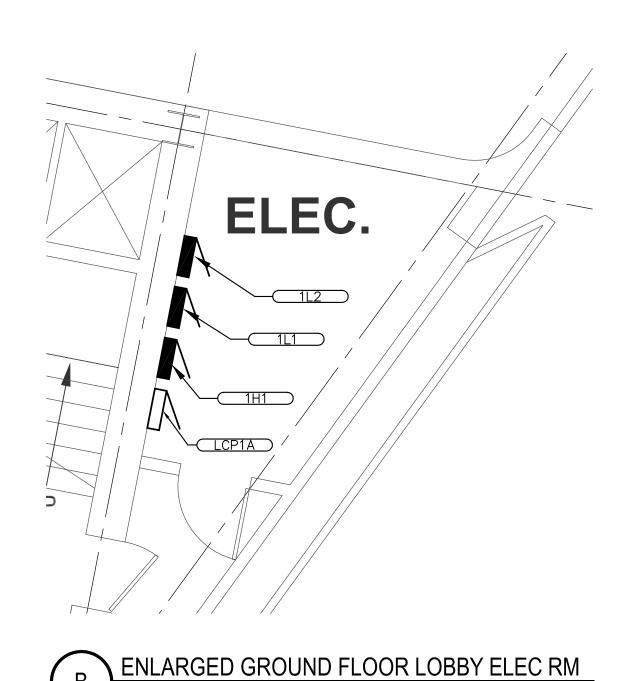


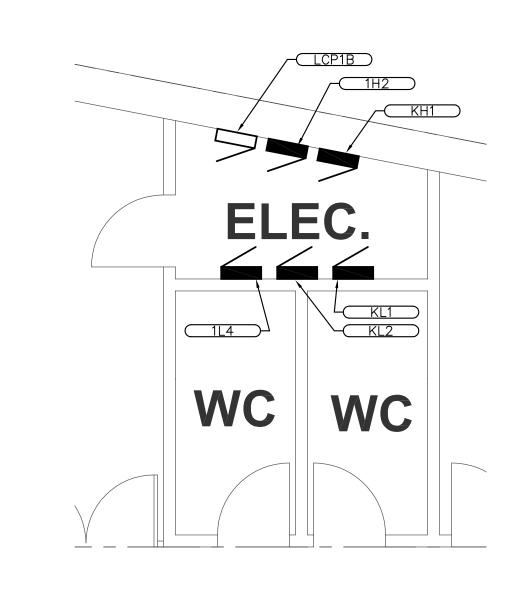












ENLARGED RESTAURANT & RETAIL ELEC RM

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

M-E Engineers, Inc. 3425 austin bluffs pkwy, ste 201 colorado springs, co 80918 t 719.536.0036/f.719.536.0037

engineers www.me-engineers.com

WITH ARCHITECT.

ALL BACK BOXES SHALL BE

CONCEALED. CONTRACTOR

INSTALLATION OF CONDUIT

CONCRETE, MASONRY AND

FLUSH MOUNTED UNLESS

NOTED OTHERWISE. ALL

VERTICAL SECTIONS OF CONDUIT SHALL BE

SHALL COORDINATE

GYP. WALLS.

AND BACK BOXES IN

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

ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL MECHANICAL AND PLUMBING EQUIPMENT WITH MECHANICAL AND PLUMBING CONTRACTORS. REFER TO MECHANICAL EQUIPMENT ELECTRICAL SCHEDULE ON SHEET E-702 FOR ALL MECHANICAL AND PLUMBING EQUIPMENT ELECTRICAL CONNECTIONS. ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR,

GENERAL NOTES:

DESIGNER: Diller Scofidio+Renfro 601 West 26 Street-1815 PARALLEL, AND TIGHT TO Γ: 212.260.7971 COLUMNS AND BEAMS. ALL EXPOSED CONDUIT ROUTING EXHIBIT DESIGN: Gallagher and Associates 8665 Georgia Avenue SHALL BE COORDINATED WITH ENGINEER AND ARCHITECT

Silver Spring, Maryland 20910 PRIOR TO INSTALLATION. NO ADDITIONAL COST TO OWNER T: 301.656.7575 STRUCTURAL DESIGN: ARUP NORTH AMERICA, LTD WILL BE ALLOWED FOR RELOCATING CONDUIT DUE TO 77 WATER STREET THE LACK OF COORDINATION

T: 212.896.3000 EXECUTIVE STRUCTURAL ENGINEER: KL&A, INC. 1717 WASHINGTON AVENUE, #100 GOLDEN, COLORADO 80401 : 303.384.9910

US OLYMPIC MUSEUM

United States Olympic Museum P.O. Box 681

Colorado Spring, CO 80901 T: 719.358.6325

EXECUTIVE ARCHITECT:

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ELECTRICAL ENGINEER: ME ENGINEERS 3425 AUSTIN BLUFFS PKWY, 201

COLORADO SPRINGS, COLORADO 80918 T: 719.536.0036 ACOUSTICS: ARUP NORTH AMERICA, LTD

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

LIGHTING: TILLOTSON 40 WORTH STREET, SUITE 703 New York, New York 10013 T: 212.675.7760

> LANDSCAPE ARCHITECTS: HARGREAVES ASSOCIATES 180 VARICK STREET, SUITE 204 New York, New York 10014 Γ: 212.337.9973

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

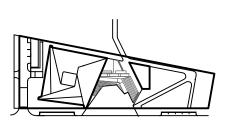
T: 973.77.4404

1604 S. 21ST STREET

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

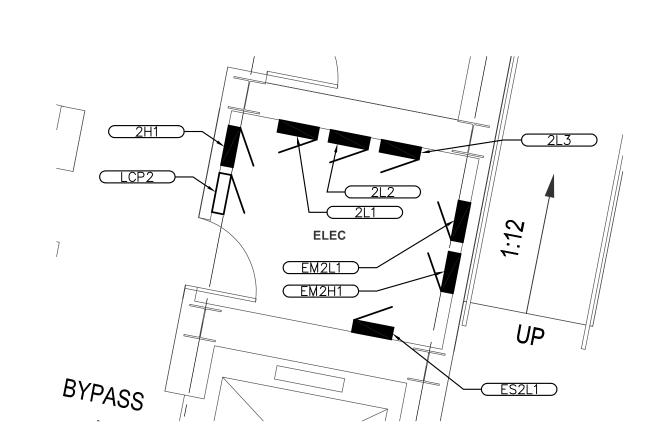


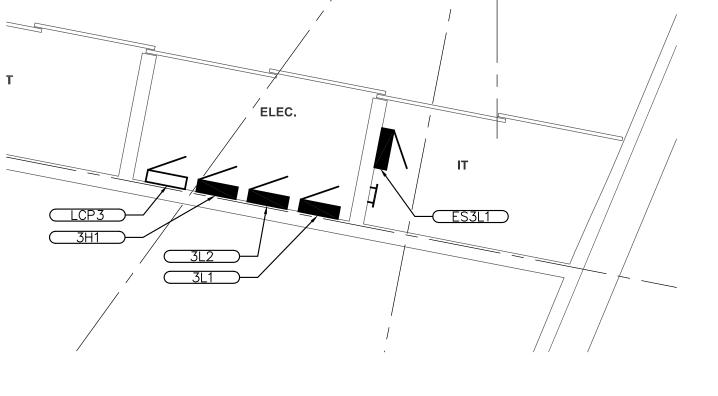
NOT FOR CONSTRUCTION

PROJECT NUMBER

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

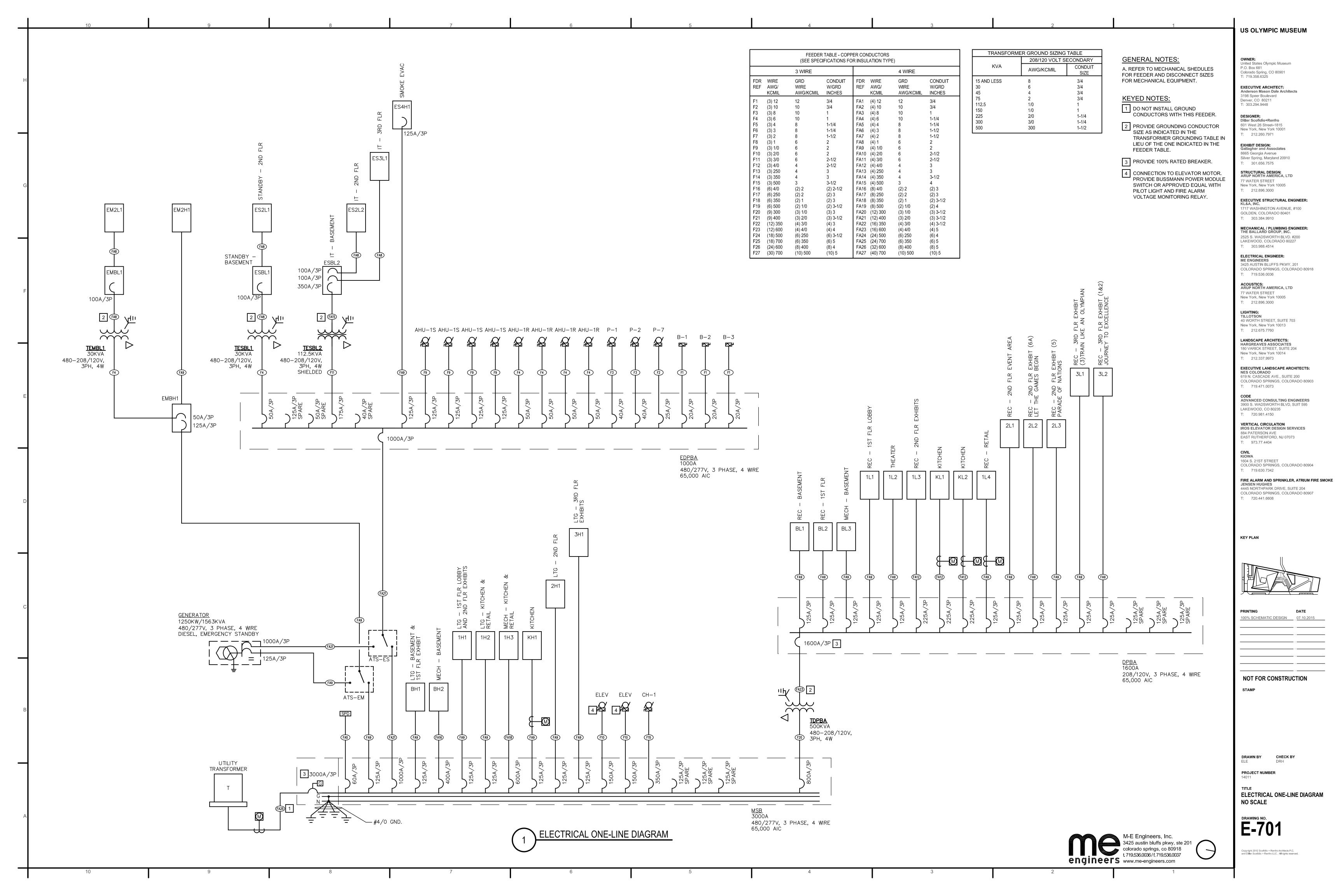
E-401





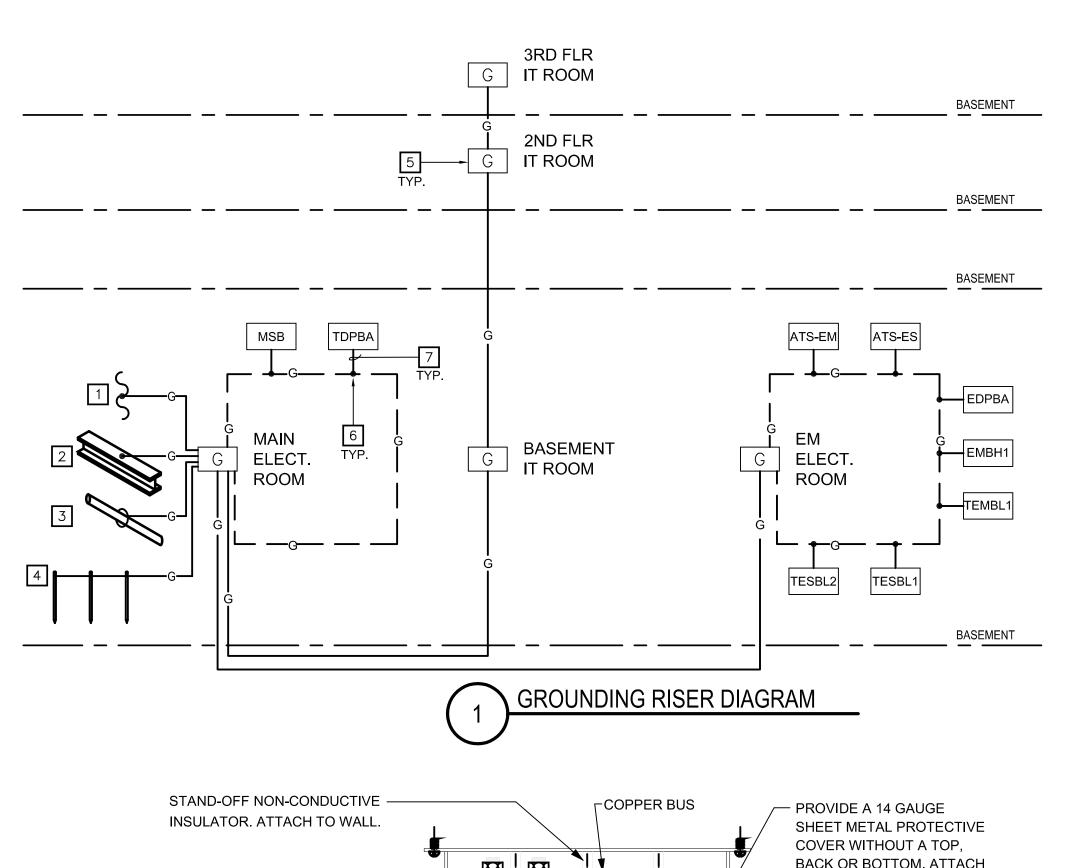
ENLARGED SECOND FLOOR ELEC RM

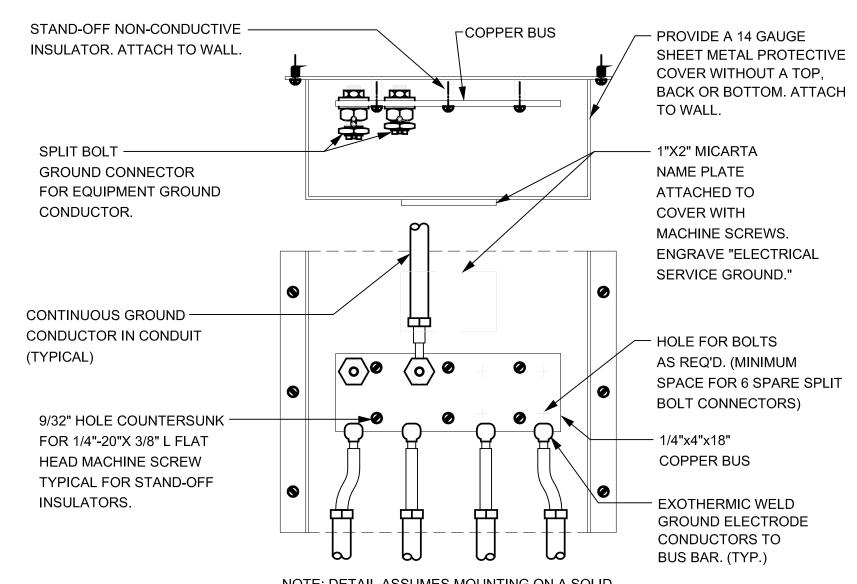
ENLARGED THIRD FLOOR ELEC RM



M DESCRIPTIO	N	WATTS / SQFT.	AREA	НР	KW	FLA	VOLTAGE	PHASE	QTY.	subtotal	demand	TOTAL KW	
EM Lighting L	oad	0.1	56000		5.60 1.92	16	277 120	1	1 1	5.60 1.92	1.25	7.00 1.92	
	/ SUBTOTAL (EMBH1)											0.00	25% of largest motor 10.73 A at 480V
IT ROOMS (E					67.37	187	208	3	1	67.37	1	67.37	1
	ROOM SUBTOTAL (ESBL2)											67.37	187.00 A at 208V
IT Cooling Ba IT Cooling Ba	sement				3.33 3.33	16 16	208 208	1	1 1	3.33 3.33	1 1	3.33 3.33	
IT Cooling 2nd IT Cooling 3rd					3.33 3.33	16 16	208 208	1	1	3.33 3.33	1	3.33 3.33	
208V/120V S	FANDBY SUBTOTAL (ESBL1)											13.31	36.95 A at 208V
EF-1 EF-2				15 15	17.46 17.46	21 21	480 480	3	1 1	17.46 17.46	1 1	17.46 17.46	
EF-3 P-1				15 20	17.46 25.77	21	480	3	1 1	17.46 25.77	1 1	17.46 17.46 25.77	
P-2 P-7				20 7.5	25.77 9.15	31 11	480 480	3	1 1	25.77 9.15	1 1	25.77 9.15	
B-1 B-2					12.47 12.47	15 15	480 480	3	1 1	12.47 12.47	1	12.47 12.47	
B-3					12.47	15	480	3	1	12.47	1	12.47	
AHU-1S AHU-1R				75 25	80.64 31.59	97 38	480 480	3	4	322.58 126.37	1 1	322.58 126.37 20.16	25% of largest motor
STANDBY SU	JBTOTAL (EDPBA)											700.27	25% of largest motor 842.30 A at 480 V
GENERATOR	RTOTAL											709.19	853.02 A at 480\
	min/BOH REC.	2.0	11493		22.99		120	1	1	22.99	1	22.99	
Basement Ad	min/BOH Comp.	6.0	2216		13.30		120	1	1	13.30	1	13.30]
	208V/120V SUBTOTAL (BL1)											36.28	100.71 A at 208\
Elevator CRA Elevator CRA	С				6.24 6.24	30 30	208	1 1	1 1	6.24 6.24	1 1	6.24 6.24	
Elevator CRA Elevator CRA					6.24 6.24	30 30	208 208	1	1	6.24 6.24	1	6.24 6.24	
BASEMENT	MECH 208V/120V SUBTOTAL (BL3)											24.96	69.28 A at 208\
	rant Receptacles rant Computers	20.0	7138 7138		142.76 7.14		120 120	1	1 1	142.76 7.14	1 1	142.76 7.14	
	3V/120V SUBTOTAL (KL1, KL2, 1L4)	1.0	7 100		7.11		125	'	'	7.11	'	149.90	416.08 A at 208\
Lobby Recept		2.0	7022		14.04		120	1	1	14.04	1	14.04	
Lobby Compu 2F Exhibit (6E	ters	3.0 7.0	1963 2777		5.89 19.44		120 120	1	1 1	5.89 19.44	1 1	5.89 19.44	
2F Exhibit (6c		7.0	2427		16.99		120	1	1	16.99	1	16.99	
	/120V SUBTOTAL (1L1, 1L3)											56.36	156.44 A at 208\
1F Exhibit Re		7.0 7.0	3500 2421		24.50 16.95		120 120	1	1	24.50 16.95	1 1	24.50 16.95	
1F EXHIBIT 2	08V/120V SUBTOTAL (1L2, BL2)											41.45	115.05 A at 208\
2F Exhibit (6A 2F Exhibit (5)		7.0	3223 1856		22.56 12.99		120 120	1	1 1	22.56 12.99	1 1	22.56 12.99	
3F Exhibit (4) 2F Event Rec	Receptacles	7.0	1630 3089		11.41		120	1	1	11.41 12.36	1 1	11.41	
2F Event Con	<u> </u>	1.0	3089		3.09		120	1	1	3.09	1	3.09	
	208V/120V SUBTOTAL (2L1, 2L2, 2L3)											62.41	173.23 A at 208\
	& 2) Receptacles	7.0 7.0	3716 3817		26.01 26.72		120 120	1	1 1	26.01 26.72	1	26.01 26.72	
3F Admin Red 3F Admin Cor	•	2.0 6.0	2715 1286		5.43 7.72		120 120	1	1	5.43 7.72	1 1	5.43 7.72	
3F EXHIBIT 2	08V/120V SUBTOTAL (3L1, 3L2)											65.88	182.86 A at 208\
SERVICE 208	8/120V SUBTOTAL (DPBA)											437.23	1213.64 A at 208\
1F Exhibit Lig Basement Lig		5.1	5921 11493		30.20 10.34		277 277	1	1 1	30.20 10.34	1.25 1.25	37.75 12.93	15.55 A at 480\
	480V/277V SUBTOTAL (BH1)											50.68	60.95375 A at 480\
P-3 P-4				30 30	37.41 37.41	45 45	480 480	3	1 1	37.41 37.41	1	37.41 37.41	
P-5 P-6				30 30	33.26 33.26	40	480 480	3	1	33.26 33.26	1 1	33.26 33.26	
P-8 P-9 P-10				3	2.83 5.74 5.74	3.4 6.9 6.9	480 480 480	3 3 3	1 1 1	2.83 5.74 5.74	1 1	2.83 5.74 5.74	
	allery) Oil Cooler			3 3 20	3.99 33.26	4.8 40	480 480 480	3 3	2	7.98 33.26	1 1 1	7.98 33.26	
Elevator 2 (Se				20	33.26 33.99	40 40 4.8	480	3 3	1 1	33.26 33.99	1 1	33.26 33.99	
CT-1				15	19.12	23	480	3	1	19.12	1	19.12 9.35	25% of largest motor
BASEMENT 4	480V/277V SUBTOTAL (BH2)											262.59	315.85 A at 480\
Kitchen Ligh	ting (1H2)	1.6	7138		11.42		277	1	1	11.42	1.25	14.28	17.17 A at 480\
AHU-2S				20	22.45	27	480	3	4	89.79	1	89.79	
AHU-2R Elevator 4 (Ki DUMBWAITE	<u>·</u>			20 10	43.23 33.26 18.29	52 40 22	480 480 480	3 3 3	4 4	172.93 133.02 73.16	1 1 1	172.93 133.02 73.16	1
KEF-1				3	3.99	4.8	480	3	1	3.99	1	3.99 10.81	25% of largest motor
KITCHEN 480	OV/277V SUBTOTAL (1H3)											483.70	581.8 A at 480\
Lobby Lighting	3	1.1	7022		7.72		277	1	1	7.72	1.25	9.66	1
	/277V SUBTOTAL (1H1)											9.66	11.61346 A at 480\
2F Exhibit Lig 2F Exhibit Lig	hting 4, 5, 6A	5.1 5.1	5204 6709		26.54 34.22		277 277	1 1	1 1	26.54 34.22	1.25 1.25	33.18 42.77	
2F Event Ligh		1.1	3089		3.40		277	1	1	3.40	1.25	4.25	F0 ===== -
2F EXHIBIT 4	80V/277V SUBTOTAL (2H1)											47.02	56.55296 A at 480\
3F Exhibit Lig 3F Admin Ligi		5.1	7330 1286		37.38 1.16		277 277	1 1	1 1	37.38 1.16	1.25 1.25	46.73 1.45	
	om Lighting	0.9	1286 1489		1.16		277	1	1	1.16	1.25 1.25	1.45	
3F SHIOKE RO			1	1			+	l	 		1	1	
	80V/277V SUBTOTAL (3H1)											49.85	59.96098 A at 480V
	80V/277V SUBTOTAL (3H1)				196.21	236	480	3	1	196.21	1	49.85 196.21	59.96098 A at 480V

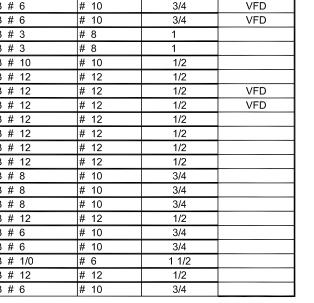
			MECHA	ANIC	AL EQ	UIPMI	ENT EI	LECTR	ICAL SCHEDU	LE					
FIXTURE	EQUIPMENT DESCRIPTION	LOA	D INFORMATION		VOLTAGE	PHASE	MCA	MOCP	DISCONNECT	FEEDING	BRANCH	CIRCUIT (COPPE	R)		NOTES
TAG		HP	kW F	LA					MEANS*	PANEL	SETS	CONDUCTORS	GROUND	CONDUIT	l
CH-1	CHILLER		2	36	480	3	295.0	350	FUSED DISCONNECT	MSB	1	3 # 500	# 3	3	ĺ
CT-1	COOLING TOWER	15	2	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	Ę.	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	3	88	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	Ę	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	3	31	480	3	38.8	40	VFD W/FUSED DISC	1H3	1	3 # 8	# 10	3/4	VFD
P-1	PUMP	20	3	31	480	3	38.8	40	VFD W/FUSED DISC	EDPA	1	3 # 8	# 10	3/4	VFD
P-2	PUMP	20	3	31	480	3	38.8	40	VFD W/FUSED DISC	EDPA	1	3 # 8	# 10	3/4	VFD
P-3	PUMP	30	4	15	480	3	56.3	60	VFD W/FUSED DISC	BH2	1	3 # 6	# 10	3/4	VFD
P-4	PUMP	30	4	15	480	3	56.3	60	VFD W/FUSED DISC	BH2	1	3 # 6	# 10	3/4	VFD
P-5	PUMP	30	4	10	480	3	50.0	90	FUSED DISCONNECT	BH2	1	3 # 3	# 8	1	i
P-6	PUMP	30	4	10	480	3	50.0	90	FUSED DISCONNECT	BH2	1	3 # 3	# 8	1	ı
P-7	PUMP	7 1/2	,	1	480	3	13.8	25	FUSED DISCONNECT	EDPA	1	3 # 10	# 10	1/2	i
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	ı
B-1	BOILER		,	2	480	3	15.0	20	FUSED DISCONNECT	EDPA	1	3 # 12	# 12	1/2	i
B-2	BOILER		,	2	480	3	15.0	20	FUSED DISCONNECT	EDPA	1	3 # 12	# 12	1/2	i
B-3	BOILER		,	2	480	3	15.0	20	FUSED DISCONNECT	EDPA	1	3 # 12	# 12	1/2	ı
EF-1	EXHAUST FAN	15	2	21	480	3	26.3	45	FUSED DISCONNECT	ES4H1	1	3 # 8	# 10	3/4	i
EF-2	EXHAUST FAN	15	2	21	480	3	26.3	45	FUSED DISCONNECT	ES4H1	1	3 # 8	# 10	3/4	ı
EF-3	EXHAUST FAN	15	2	21	480	3	26.3	45	FUSED DISCONNECT	ES4H1	1	3 # 8	# 10	3/4	ı
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		10	480	3	50.0	60	FUSED DISCONNECT	BH2	1	3 # 6	# 10	3/4	
ELEV-2	SERVICE ELEVATOR	20	4	10	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	i
ELEV-4	KITCHEN ELEVEATOR	20	4	10	480	3	50.0	60	FUSED DISCONNECT	1H3	1	3 # 6	# 10	3/4	<u> </u>





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.

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.

US OLYMPIC MUSEUM

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KEY PLAN



100% SCHEMATIC DESIGN . 07.10.2015

NOT FOR CONSTRUCTION

DRAWN BY PROJECT NUMBER

ELECTRICAL SCHEDULES AND DETAILS NO SCALE

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
- 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.

<u>NOTIFICATION</u>

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).

<u>POWEI</u>

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.

<u>ACTIVATION</u>

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.

1	NDEX OF DRAWINGS
DRAWING NO.	DRAWING TITLE
FA-001	COVER SHEET, GENERAL NOTES & CODE REVIEW
FA-002	PROJECT DETAILS & SEQUENCE OF OPERATIONS
FA-003	FIRE ALARM LEGEND, RISER DIAGRAM & DETAILS
FA-100	BASEMENT LEVEL
FA-101	LEVEL 1 GROUND FIRE ALARM
FA-101A	LEVEL 1 MEZZANINE FIRE ALARM
FA-102	LEVEL 2 FIRE ALARM
FA-103	LEVEL 3 FIRE ALARM
FA-104	ROOF LEVEL

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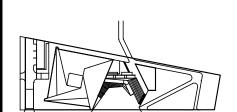
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KEY PLAN



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PROJECT NUMBER

TITLE
FIRE ALARM GENERAL NOTES

FA-001

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	Х	Х					Х	Х			Х		Х										
SMOKE DETECTORS - ALL, EXCEPT AS SPECIFICALLY NOTED BELOW	Х	Х					Х	Х			Х		Х										Х
HEAT DETECTORS - ALL, EXCEPT SPECIFICALLY NOTED BELOW	Х	Х					Х	Х			Х		Χ										
SPRINKLER MAIN WATERFLOW SWITCH	Х	Х					Χ	Х			Х		Χ						Х				
SPRINKLER WATERFLOW SWITCH	Х	Х					Х	Х			Х		Χ										Х
SMOKE DETECTOR - BASEMENT LEVEL ELEVATOR LOBBY	Х	Х					Х	Х			Х		Χ		Х								
SMOKE DETECTOR - LEVELS 1, 2 OR 3 ELEVATOR LOBBY	Х	Х					Х	Х			Х		Χ	Х									Х
SMOKE DETECTOR - ELEVATOR MACHINE ROOM	Х	Х					Х	Х			Х		Χ		Х	Х							
HEAT DETECTOR - ELEVATOR MACHINE ROOM	Х	Х					Х	Х			Х		Χ		Х	Х	Х						
HEAT DETECTOR - ELEVATOR SHAFT	Х	Х					Х	Х			Х		Χ	Х		Х	Х						
SMOKE DETECTORS AT RETURN AIR INTAKES			Х	х			Х		Х									х		Х			
DUCT SMOKE DETECTORS - BASEMENT LEVEL			Х	Х			Х		Х											Х			
SPRINKLER VALVE TAMPER SWITCH			Х	Х			Х		Х														
SHUNT TRIP POWER MONITOR			Х	Х			Х		Х														
ENABLE FIREFIGHTER'S SMOKE CONTROL PANEL			Х	Х			Х		Х														
FIRE ALARM PANEL AC POWER FAILURE					Х	Х	Х			Х													
FIRE ALARM PANEL LOW BATTERY					Х	Х	Х			Х													
NAC SHORT CIRCUIT					Х	Х	Х			Х													
OPEN CIRCUIT					Х	Х	Х			Х													
GROUND FAULT					Х	Х	Х			Х													
ADDRESSABLE DEVICE / SYSTEM COMPONENT FAILURE					Х	Х	Х			Х													
ALARM SILENCE							Х														х		
SYSTEM RESET							Х															х	
MICROPHONE ACTIVATION WITH CIRCUIT SELECTION SWITCH												Х											

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

US OLYMPIC MUSEUM

OWNER: United States Olympic Museur P.O. Box 681 Colorado Spring, CO 80901

EXECUTIVE ARCHITECT:
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884 PATERSON AVE

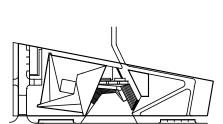
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CIVIL

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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
SD PACKAGE	.07.10.2015
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PROJECT NUMBER

PROJECT DETAILS & SEQUENCE OF OPERATIONS

FA-002

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

CEILING MOUNTED STROBE, CD = CANDELA RATING

WALL MOUNTED STROBE, CD = CANDELA RATING

COMBINATION HORN & STROBE, CD = CANDELA RATING

CD COMBINATION SPEAKER & STROBE, W = MIN. WATTAGE, CD = CANDELA RATING

(S) C SPEAKER - CEILING MOUNTED, W = MIN. WATTAGE

SY SPEAKER - WALL MOUNTED, W = MIN. WATTAGE

FIRE ALARM EQUIPMENT SYMBOLS

SYMBOL DESCRIPTION

H⊙ MAGNETIC DOOR HOLDER

RTS REMOTE ALARM INDICATING AND TEST SWITCH

RELA

ADDRESSABLE INPUT MODULE

ADDRESSABLE OUTPUT MODULE

FIRE ALARM INITIATING DEVICE SYMBOLS

SYMBOL DESCRIPTION

P MANUAL PULL STATION

HEAT DETECTOR

FIXED TEMPERATURE HEAT DETECTOR

RATE OF RISE HEAT DETECTOR

PHOTOELECTRIC SMOKE DETECTOR, WM=WALL-MOUNTED

DUCT-MOUNTED SMOKE DETECTOR

WF WATER FLOW SWITCH

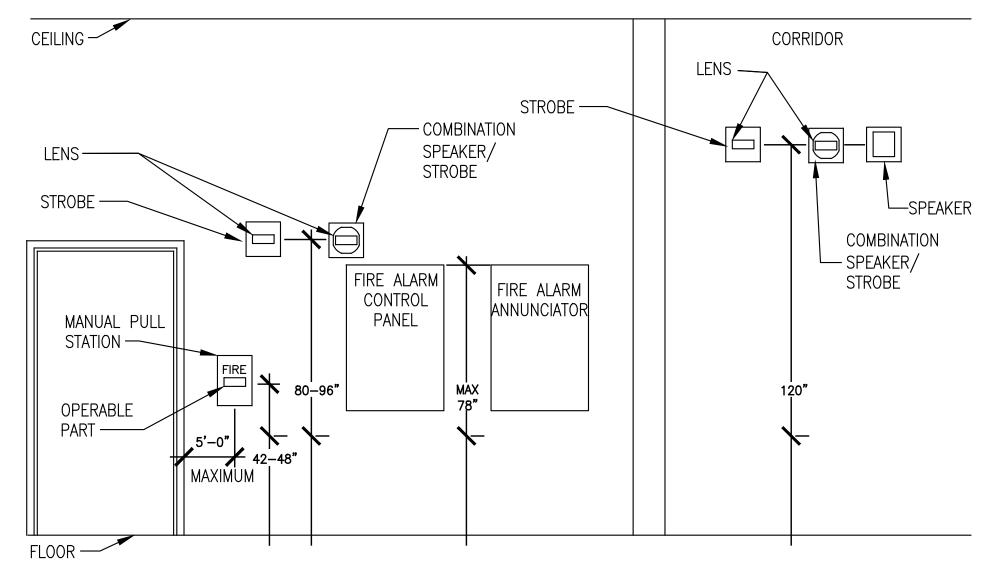
PS PRESSURE DETECTOR/SWITCH

(T) VALVE SUPERVISORY SWITCH

ANNOTATION SYMBOLS

WP WEATHER PROOF

§ END OF LINE RESISTOR



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
FLO	OR
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

FIRE ALARM SYSTEM RISER DIAGRAM

SCALE: NOT TO SCALE

TYPICAL MOUNTING HEIGHTS FOR WALL-MOUNTED DEVICES

SCALE: NOT TO SCALE

US OLYMPIC MUSEUM

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

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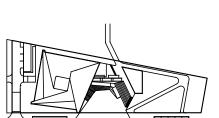
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FIRE ALARM AND SPRINKLER, ATRIUM FIRE SMOKE JENSEN HUGHES 4445 NORTHPARK DRIVE, SUITE 204 COLORADO SPRINGS, COLORADO 80907 T: 720.441.6608

KEY PLAN



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& DETAILS

TITLE
FIRE ALARM LEGEND, RISER DIAGRAM

FA-003

GENERAL DESCRIPTION OF SPRINKLER WORK:

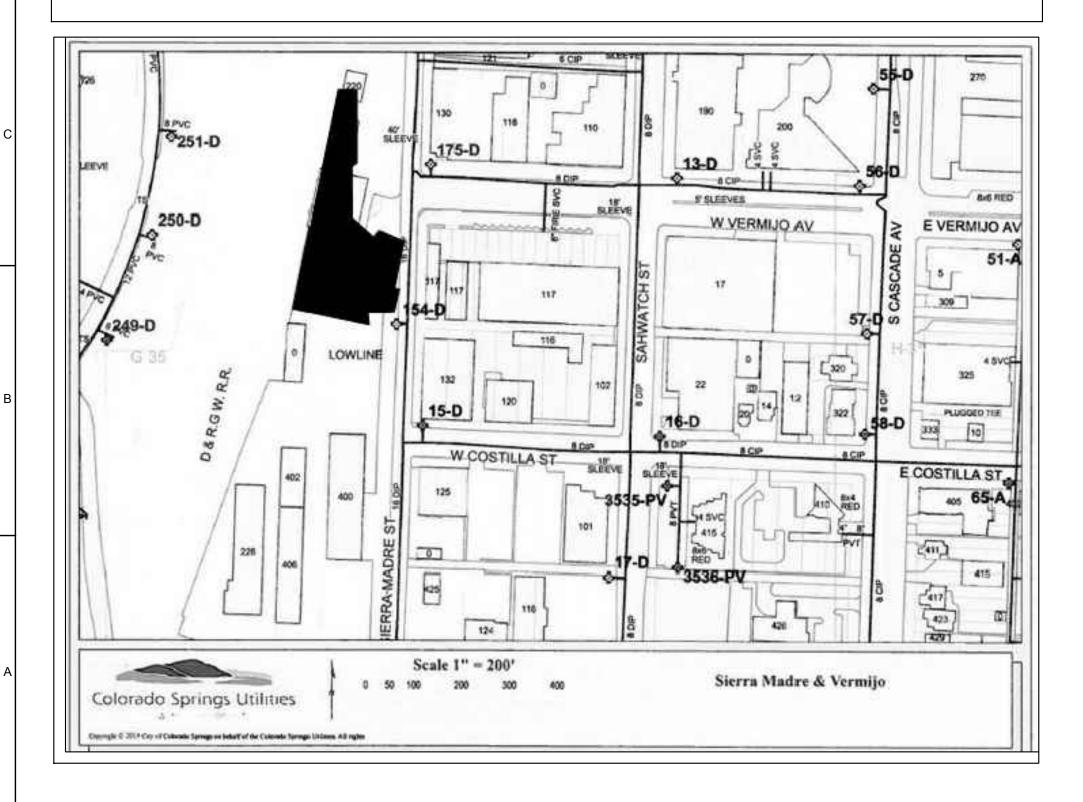
1. The installing contractor shall furnish and install all necessary equipment to provide an automatic fire sprinkler system within the United States Olympic Museum Building located in Colorado Springs, Colorado.

GENERAL SPRINKLER NOTES:

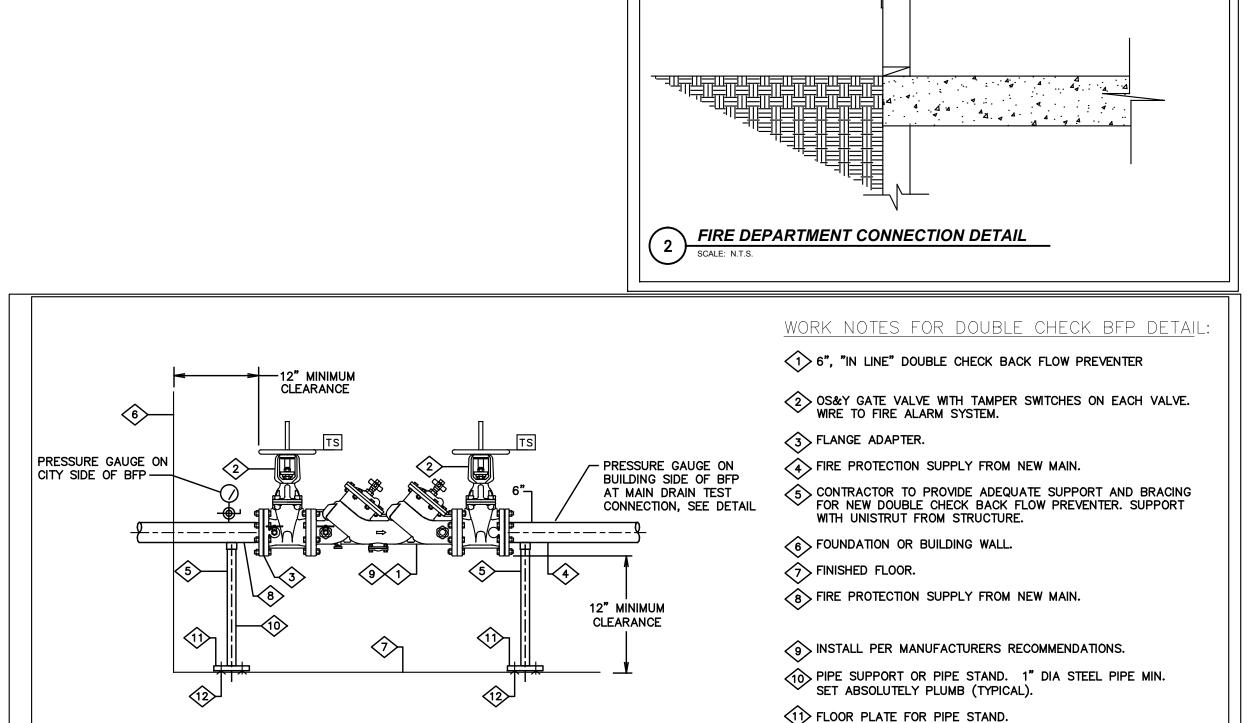
- 1. All materials and equipment shall be new.
- 2. Core drill penetrations in concrete floors or walls 1-2 inches larger than the pipe diameter of the penetrating pipe. Pipe penetrations through gypsum wall partitions shall be cut 1 inch larger than the pipe diameter of the penetrating pipe. Contractor 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
- 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
- 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.
- 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 provided at the top of the
- 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).

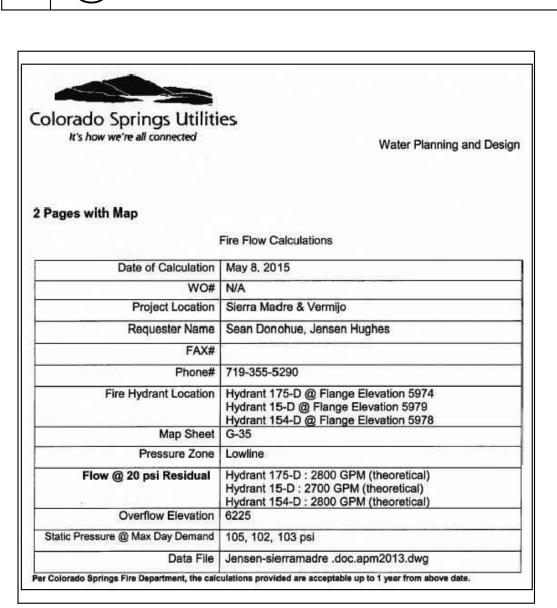


UNITED STATES OLYMPIC MUSEUM FIRE SPRINKLER SYSTEM



HORIZONTAL INSTALLATION - DOUBLE CHECK BACKFLOW PREVENTER DETAIL

QUAD OUTLET FDC



- DRAIN RISER

CONTRACTOR.

SPRINKLER / STANDPIPE RISER

UTILIZE NEW EXPRESS DRAIN RISER FLOOR

PENETRATION FOR CONDUIT PASSAGE THRU FLOOR. COORDINATE WITH SPRINKLER SYSTEM

└─ INTERMEDIATE STAIR LANDING

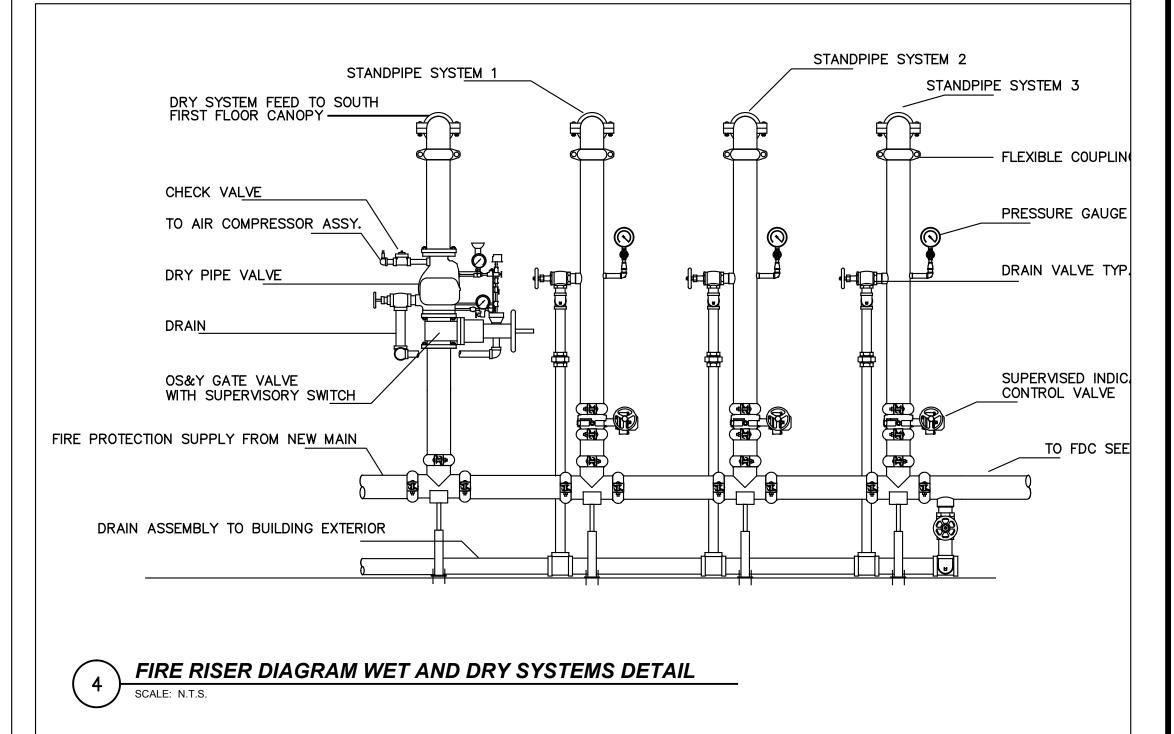
- INDICATING TYPE FLOOR CONTROL VALVE.

SEE DETAIL FOR

SPRINKLER SYSTEM

FLOOR CONTROL ASSEMBLY

PROVIDE VALVE SUPERVISORY SWITCH



(12) CONCRETE ANCHOR.

US OLYMPIC MUSEUM

United States Olympic Museum P.O. Box 681 Colorado Spring, CO 80901

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77 WATER STREET

90 DEGREE ELBOW WITH BALL DRIP

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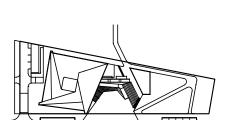
LAKEWOOD, CO 80235 720.981.4150 VERTICAL CIRCULATION

IROS ELEVATOR DESIGN SERVICES EAST RUTHERFORD, NJ 07073

1604 S. 21ST STREET

719.630.7342 FIRE ALARM AND SPRINKLER, ATRIUM FIRE SMOKE JENSEN HUGHES

4445 NORTHPARK DRIVE, SUITE 204 COLORADO SPRINGS, COLORADO 80907 720.441.6608

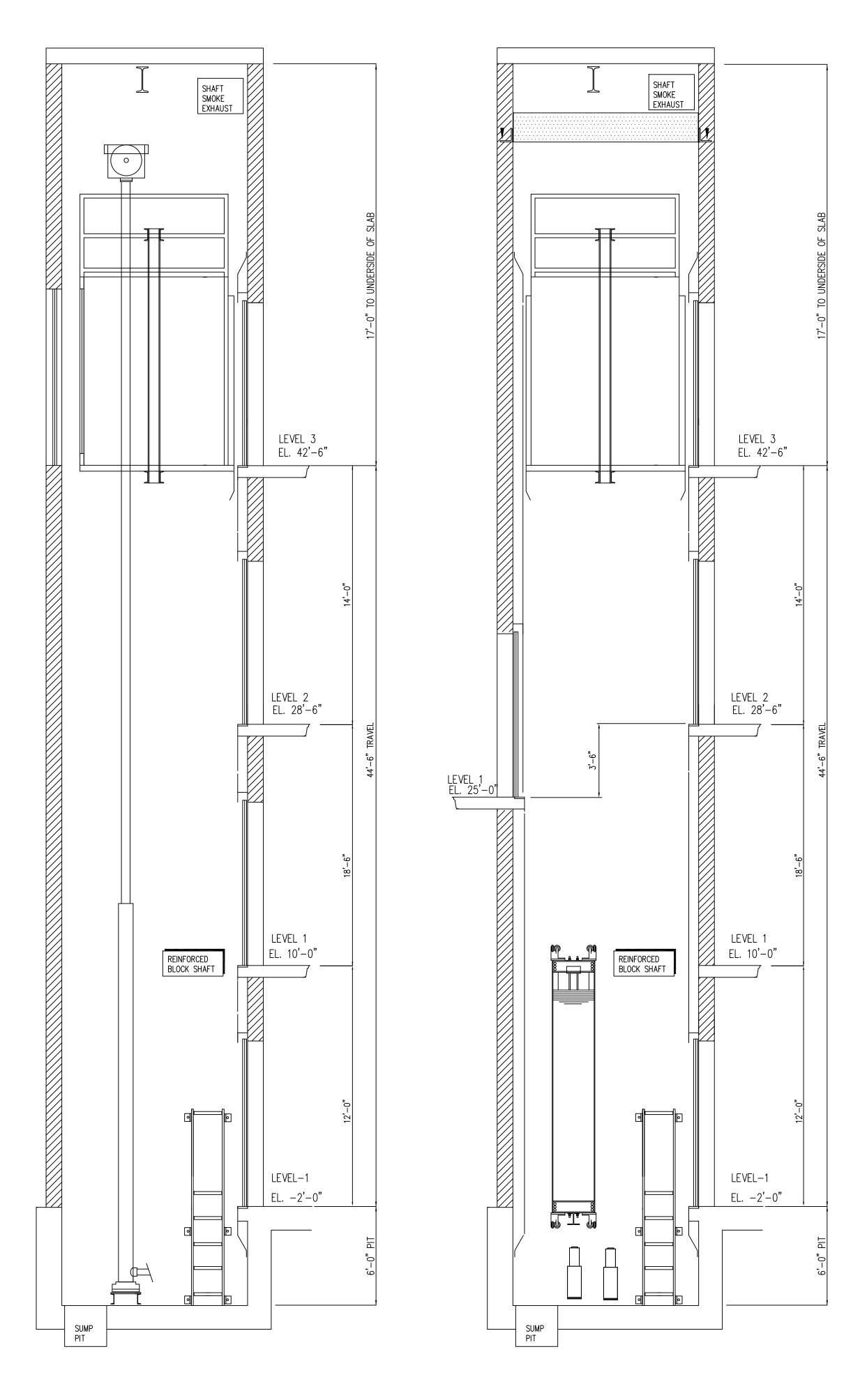


SD BACKGROUNDS

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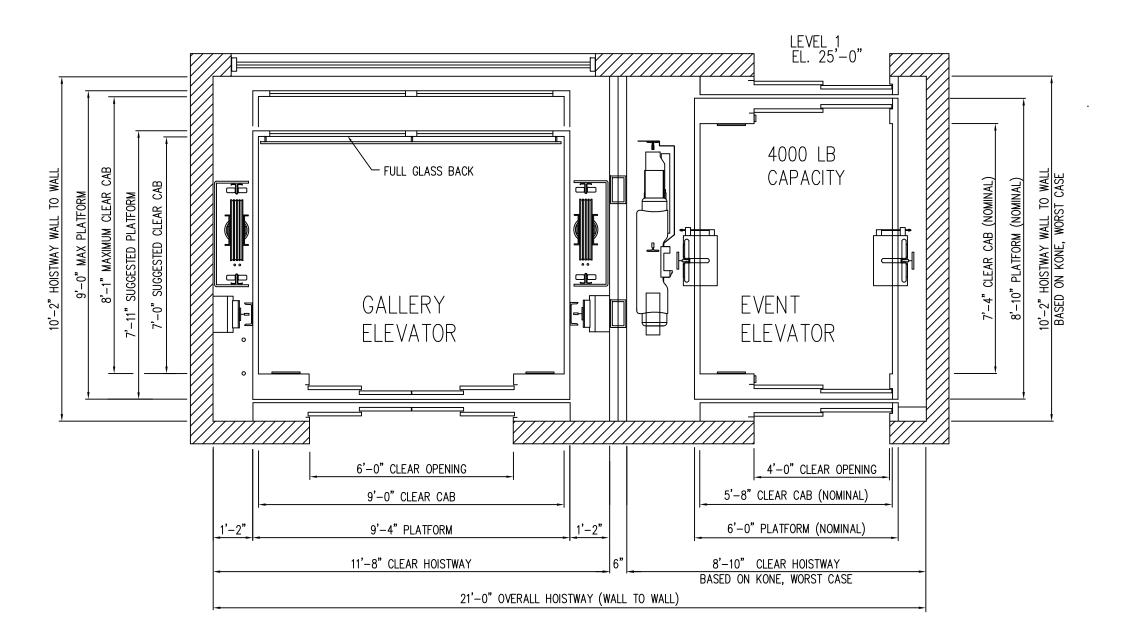
PROJECT NUMBER

COVER SHEET



IDENTIFICATION	GALLERY ELEVATOR
TYPE	PASSENGER- DUAL ROPED HOLELESS HYDRAULI
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) GOVERNOR ROPE	HOLLISTER WHITNEY OR APPROVED EQUAL 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)

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

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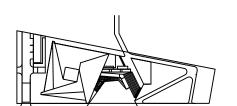
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KEY PLAN



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 DATE

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 SD BACKGROUNDS-REV1
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 SD 100%
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GALLERY & EVENT ELEVATORS

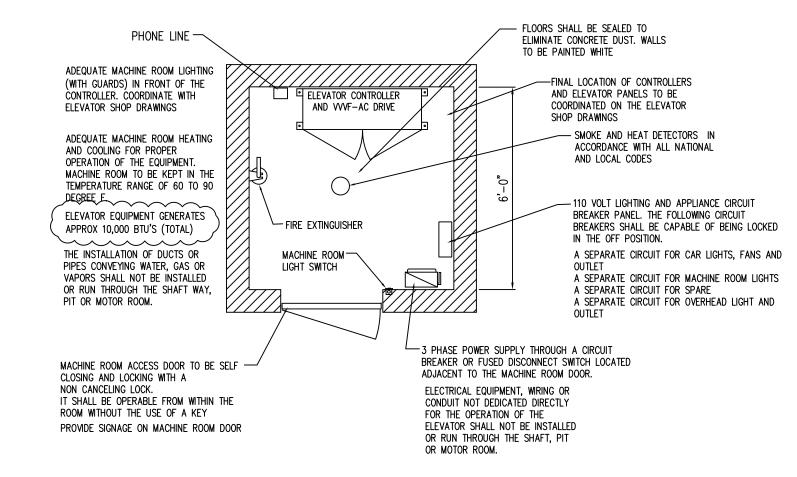
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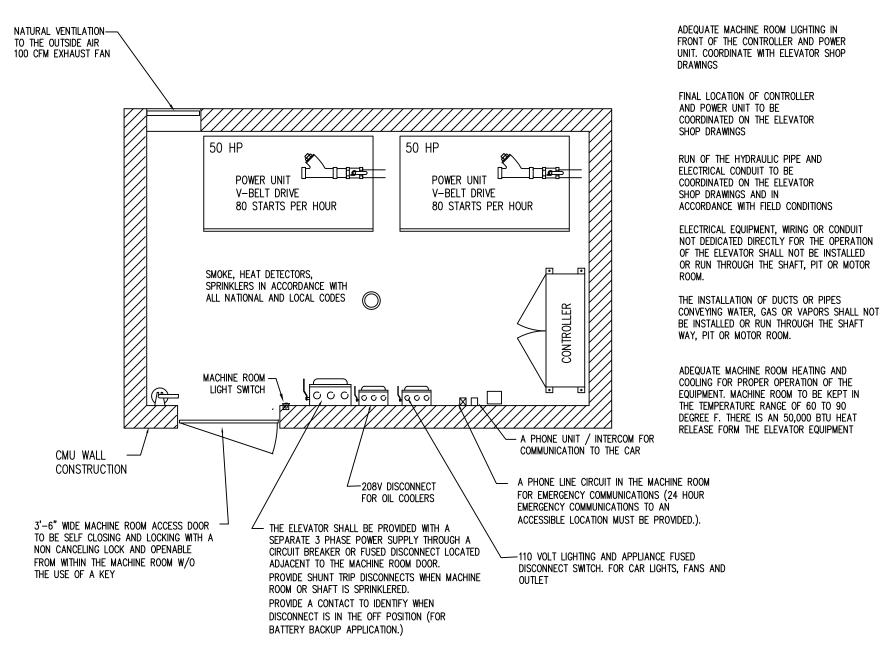
SECTION - GALLERY ELEVATOR (NTS)

SECTION - EVENT ELEVATOR (NTS)

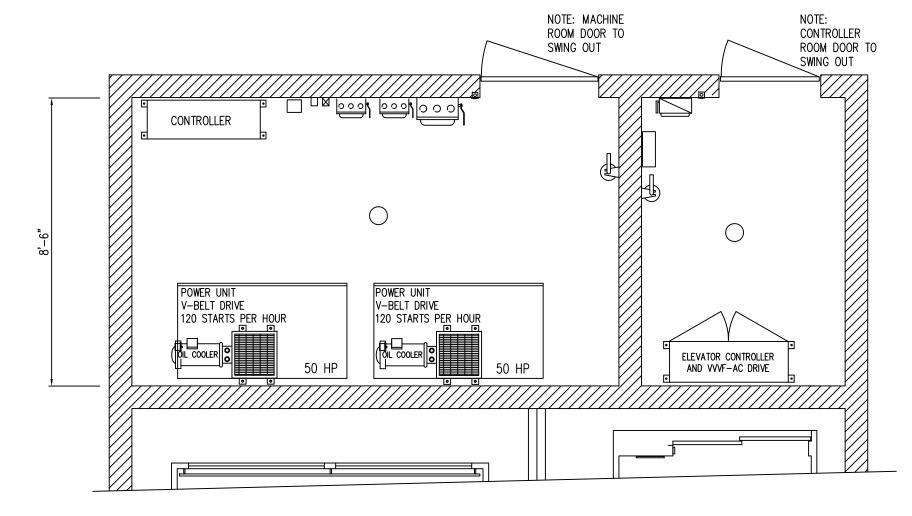
WHEN EMERGENCY POWER IS PROVIDED TO RUN THE ELEVATORS, TRANSFER SIGNALS SHALL BE AVAILABLE FOR THE ELEVATOR CONTROLLER TO IDENTIFY THAT TRANSFER TO EMERGENCY POWER HAS OCCURRED AND ANOTHER SIGNAL PRIOR TO TRANSFER BACK TO NORMAL POWER. PROVIDE DRY, NO/NC CONTACTS IN THE ELEVATOR MACHINE ROOMS ADJACENT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



MRL CONTROLLER ROOM - TYPICAL NOTES



HYDRAULIC MACHINE ROOM - TYPICAL NOTES



MACHINE ROOM PLAN

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

US OLYMPIC MUSEUM

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United States Olympic Museum
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T: 973.77.4404

KIOWA

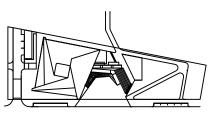
1604 S. 21ST STREET

COLORADO SPRINGS, COLORADO 80904

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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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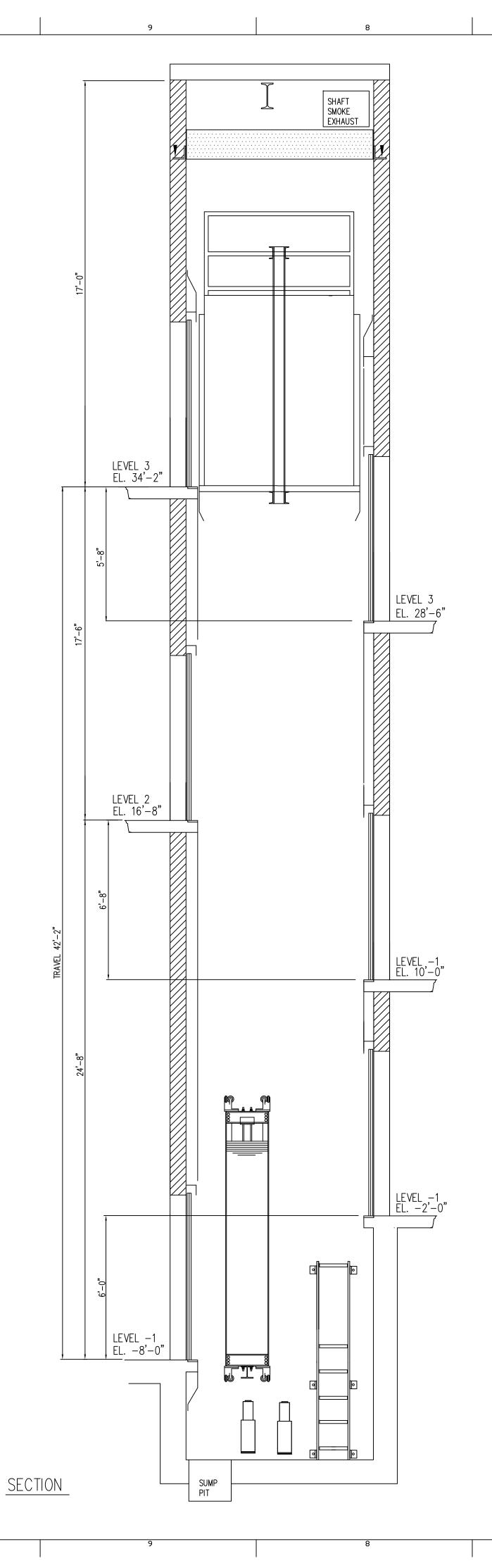
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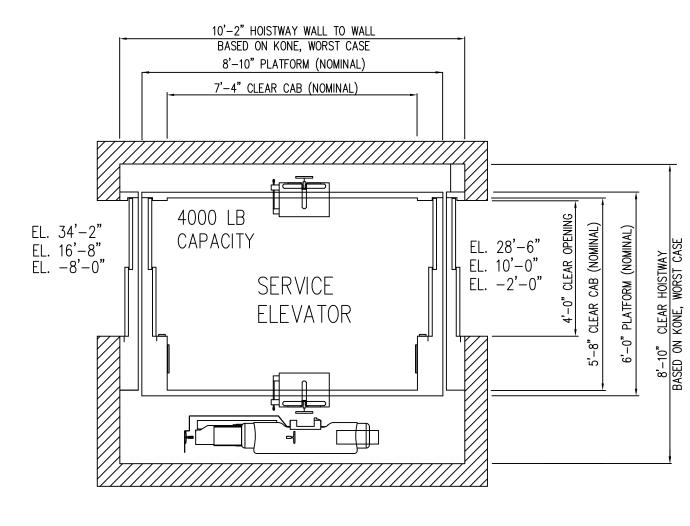
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GALLERY & EVENT ELEVATORS - EMR

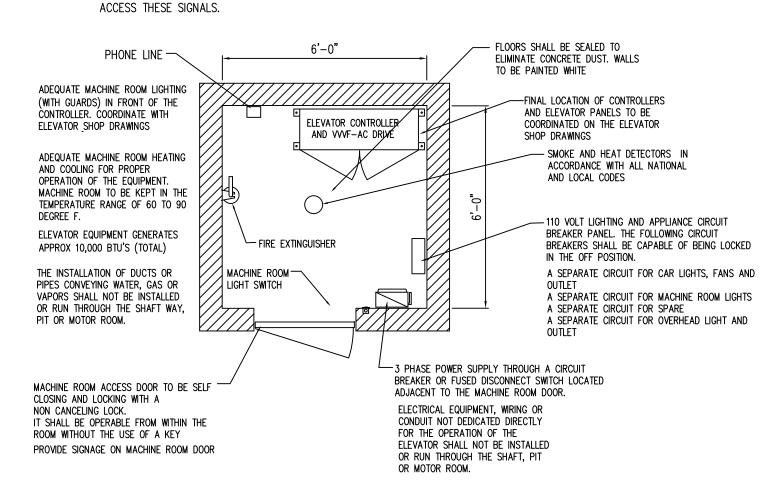
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HOISTWAY PLAN

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



CONTROLLER ROOM — SERVICE ELEVATOR

IDENTIFICATION	EVENT ELEVATOR
TYPE	PASSENGER
CAPACITY	4,000#
SPEED	200 FPM
TRAVEL	42'-2"
FLOORS SERVED / STOPS	6 OPENINGS - SEE SECTION (FRONT AND RE
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

US OLYMPIC MUSEUM

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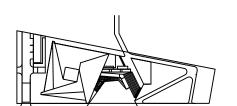
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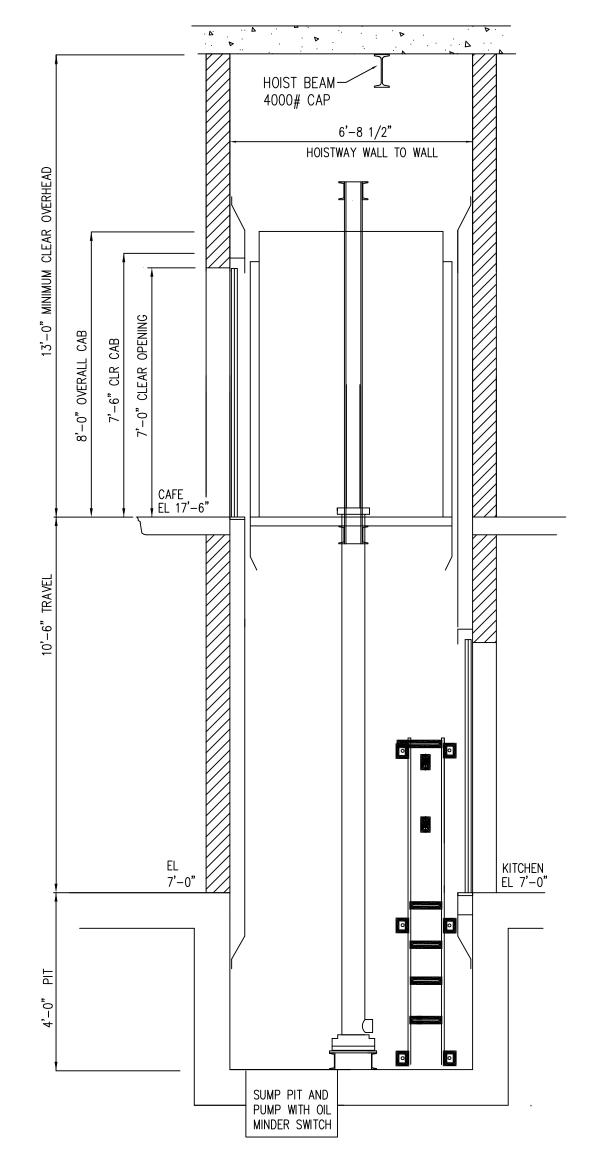
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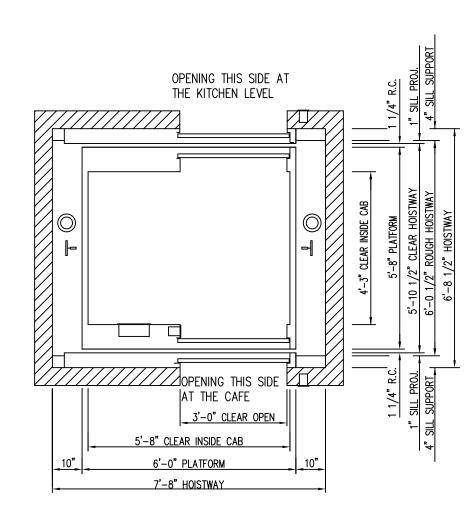
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SERVICE ELEVATOR

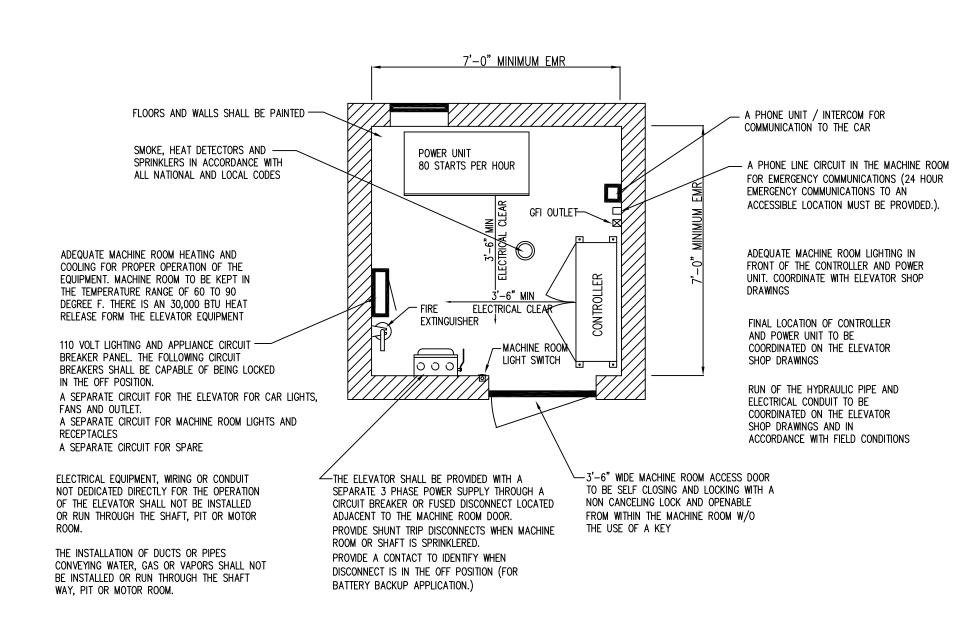
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SECTION NTS



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)
CAD EDAME	MININECOTA CANTON OR ARRESTED FOR
CAR FRAME PLATFORM	MINNESOTA, CANTON OR APPROVED EQUAL MINNESOTA, CANTON OR APPROVED EQUAL
	·
CAB	TO BE DETERMINED — MANUF. STANDARD HIGH END
POWER SUPPLY	VERIFY (460 OR 208)

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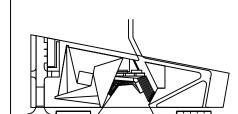
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KITCHEN ELEVATOR

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