MEMORANDUM

Date: August 20, 2018

To: The Honorable Chairman and Members
Pima County Board of Supervisors

From: C.H. Huckelberry
County Administrator

Re: **Southern Arizona Heritage and Visitor Center**

I previously forwarded information to the Board of Supervisors regarding architectural programming and concept design for the Historic Pima County Courthouse.

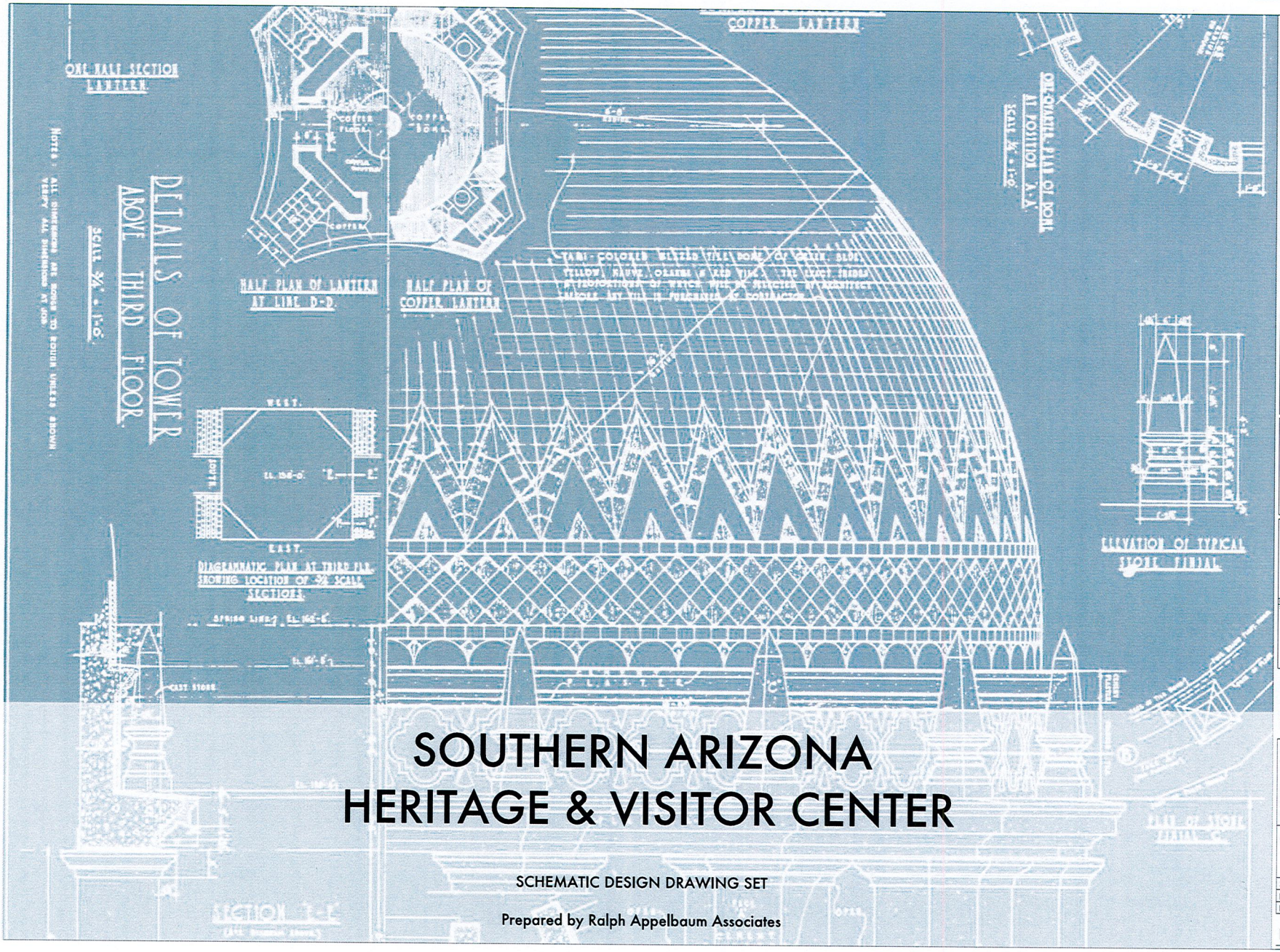
The attached schematic design drawing set provides more detailed information regarding the development of the Southern Arizona Heritage and Visitor Center.

Please contact me if you have any questions or comments regarding the conceptual design of the First Floor of the Historic Pima County Courthouse as the University of Arizona Mineral Museum and the Southern Arizona Heritage and Visitor Center.

CHH/anc

Attachment

c: Jan Lesher, Chief Deputy County Administrator
Nicole Fyffe, Executive Assistant to the County Administrator
Diane Frisch, Director, Attractions and Tourism
Lisa Josker, Director, Facilities Management



SOUTHERN ARIZONA HERITAGE & VISITOR CENTER

SCHEMATIC DESIGN DRAWING SET

Prepared by Ralph Appelbaum Associates

PIMA COUNTY COURTHOUSE

SOUTHERN ARIZONA HERITAGE AND VISITOR CENTER

UNIVERSITY OF ARIZONA GEM AN MINERAL MUSEUM

115 NORTH CHURCH AVENUE
TUCSON, ARIZONA 85701

Pima County
Client

University of Arizona
Client

Poster Frost Mirto
Project Achitects

Ralph Appelbaum Associates, Inc.
Exhibit Design

Key Plan

Notes

Rev No.	Description	Date
SET 1.0	EXHIBIT SCHEMATIC DESIGN SET	08.14.18

Ralph Appelbaum Associates
Exhibit Design

88 Pine Street
New York, NY 10005
v:212.334.8200 f:221.334.6214

PIMA COUNTY COURTHOUSE
Tucson, Arizona

SCHEMATIC DESIGN DRAWINGS

ISSUED FOR REVIEW

COVER

Scale	NTS
Date	08/14/2018
RAA Project Number	1708

EX-000

DRAWING SYMBOLS:

- PROJECT NORTH
- COLUMN TAG & STRUCTURE CONTROL LINE
- DRAWING TITLE (Level 1 Overall Plan, Scale: 1/2" = 1'-0")
- SECTION KEY
- ELEVATION KEY
- LEVEL KEY (L.O. EL)
- DETAIL REFERENCE KEY
- CENTER LINE
- CUT LINE
- STAIR DIRECTION (DN)

SHEET TITLE:

PROJECT OVERVIEW

EX-000	COVER SHEET
EX-001	DRAWING LIST & SYMBOLS
EX-002	DRAWING NOTES & ABBREVIATIONS
EX-005	SITE PLAN

OVERALL PLANS

EX-010	OVERALL L.1 FLOOR PLAN
EX-021	OVERALL L.2 FLOOR PLAN

SOUTHERN ARIZONA HERITAGE AND VISITOR CENTER

L.1 SAHVC

EX-100	L.1 SAHVC FLOOR PLAN
EX-101	L.1 SAHVC CONTENT FLOOR PLAN
EX-110	L.1 SAHVC RC PLAN
EX-120	L.1 SAHVC OVERALL SECTIONS
EX-130	CHANGING GALLERY & ENTRY LOBBY ELEVATIONS
EX-140	DIORAMA & TOPO MAP DETAILS
EX-150	OLD PUEBLO & PRESEDIO EXHIBIT WALL DETAILS
EX-160	STORY PORTAL DETAIL ELEVATIONS
EX-161	STORY PORTAL DETAILS
EX-170	THEATER DETAILS

UNIVERSITY OF ARIZONA GEM AND MINERAL MUSEUM

L.1 UAGMM

EX-200	L.1 UAGMM FLOOR PLAN
EX-201	L.1 UAGMM CONTENT FLOOR PLAN
EX-210	L.1 UAGMM RC PLAN

L.1 UAGMM_MUSEUM ENTRANCE LOBBY

EX-300	MUSEUM ENTRANCE LOBBY FLOOR PLAN
EX-310	MUSEUM ENTRANCE LOBBY RC PLAN
EX-320	MUSEUM ENTRANCE LOBBY ELEVATIONS

L.1 UAGMM_MINERAL EVOLUTION GALLERY

EX-400	MINERAL EVOLUTION GALLERY FLOOR PLAN
EX-410	MINERAL EVOLUTION GALLERY RC PLAN
EX-420	MINERAL EVOLUTION GALLERY ELEVATIONS
EX-421	MINERAL EVOLUTION GALLERY ELEVATIONS
EX-422	MINERAL EVOLUTION GALLERY ELEVATIONS
EX-423	MINERAL EVOLUTION GALLERY ELEVATIONS

L.1 UAGMM_ARIZONA GALLERY

EX-500	ARIZONA GALLERY FLOOR PLAN
EX-510	ARIZONA GALLERY RC PLAN
EX-520	ARIZONA GALLERY ELEVATIONS
EX-521	ARIZONA GALLERY ELEVATIONS
EX-522	ARIZONA GALLERY ELEVATIONS
EX-523	ARIZONA GALLERY ELEVATIONS

L.1 UAGMM_GEM GALLERY

EX-600	GEM GALLERY FLOOR PLAN
EX-610	GEM GALLERY RC PLAN
EX-620	GEM GALLERY ELEVATIONS

L.1 UAGMM_GEM VAULT DETAILS

EX-700	GEM VAULT DETAIL FLOOR PLAN
EX-710	GEM GALLERY DETAIL ELEVATIONS
EX-720	GEM GALLERY DETAIL ELEVATIONS

SOUTHERN ARIZONA HERITAGE AND VISITOR CENTER

L.2 SAHVC

EX-800	L.2 SAHVC LAW & ORDER FLOOR PLAN
EX-810	L.2 SAHVC LAW & ORDER ELEVATIONS

DISPLAY CASE TYPICALS

EX-900	DISPLAY CASE, TYPE A: DETAIL PLAN/SECTION/ELEVATION
EX-910	DISPLAY CASE, TYPE B: DETAIL PLAN/SECTION/ELEVATION
EX-911	**DISPLAY CASE, TYPE B1: DETAIL PLAN/SECTION/ELEVATION**
EX-920	DISPLAY CASE, TYPE C: DETAIL PLAN/SECTION/ELEVATION
EX-921	**DISPLAY CASE, TYPE C1&C2: DETAIL PLAN/SECTION/ELEVATION**
EX-930	DISPLAY CASE, TYPE D&D1: DETAIL PLAN/SECTION/ELEVATION
EX-940	DISPLAY CASE, TYPE E&D1: DETAIL PLAN/SECTION/ELEVATION
EX-950	DISPLAY CASE, TYPE F&F1&F2: DETAIL PLAN/SECTION/ELEVATION
EX-960	**DISPLAY CASE, TYPE G&G1&G2: DETAIL PLAN/SECTION/ELEVATION**
EX-961	DISPLAY CASE, TYPE G3: DETAIL PLAN/SECTION/ELEVATION

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ABBREVIATIONS:

ABV.	AUDIO
A	ABOVE
ADJ.	ADJACENT OR ADJUSTABLE
ALUM.	ALUMINUM
A/C	AIR CONDITIONING
ANOD.	ANODIZED
APPRX.	APPROXIMATE
A.T.C.	ACOUSTICAL TILE CEILING
ARCH.	ARCHITECT(URAL)
BLKG.	BLOCKING
BD.	BOARD
BLDG.	BUILDING
B.R.L.	BUILDING REFERENCE LINE
B.O.	BY OTHERS
BTWN.	BETWEEN
CLG.	CEILING
C.I.P.	CAST IN PLACE
CLG. HT.	CEILING HEIGHT
CL	CLOSET
CL.	CENTER LINE
CLG.	CEILING
COL.	COLUMN
CONST.	CONSTRUCTION
CONC.	CONCRETE
CONT.	CONTINUOUS OR CONTINUE
D	DATA
DEMO.	DEMOLITION
DEPT.	DEPARTMENT
DIA.	DIAMETER
DET.	DETAIL
DIM.	DIMENSION
DN	DOWN
DR.	DOOR
DWG.	DRAWING
E.F.	EXHIBIT FABRICATOR
(E)	EXISTING
EA.	EACH
EMER.	EMERGENCY
ELEC.	ELECTRICAL
EQ.	EQUAL
EQUIP.	EQUIPMENT
FIN.	FINISH
F.F.	FINISH FLOOR
FLUOR.	FLUORESCENT
FLR	FLOOR
F.O.G.	FACE OF GLASS
F.O.W.	FACE OF WALL
FURR.	FURRING
G.C.	GENERAL CONTRACTOR
GT.	GROUT
GYP. BD.	GYPSUM BOARD
HD. WD.	HARD WOOD
H.V.A.C.	HEATING, VENTILATION & A/C
HT.	HEIGHT
H.M.	HOLLOW METAL
INSUL.	INSULATION
INFO.	INFORMATION
INST.	INSTRUMENT
LL	LOWER LEVEL
LAM.	LAMINATED
L1	LEVEL ONE/ FIRST FLOOR
LW	LIGHT WEIGHT
L2	LEVEL TWO/ SECOND FLOOR
MFRG.	MANUFACTURER(ING)
MAX.	MAXIMUM
MTL.	METAL
MECH.	MECHANICAL
MIN.	MINIMUM
MISC.	MISCELLANEOUS
(N)	NEW
N	NORTH
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
OPG.	OPENING
OPP.	OPPOSITE
PTD.	PAINTED
P	POWER
PARTN.	PARTITION
PLYWD.	PLYWOOD
R.C.P.	REFLECTED CEILING PLAN
REINF.	REINFORCE (D) (ING)
REV.	REVISED
REQ'D.	REQUIRED
S	SOUTH
SIM.	SIMILAR
SQ. FT.	SQUARE FOOT
SPEC.	SPECIFICATION
ST. ST.	STAINLESS STEEL
STRUC.	STRUCTURAL
STL.	STEEL
TECH.	TECHNOLOGY
TEL	TELEPHONE
TEMP.	TEMPERED
TYP.	TYPICAL
THK.	THICK
U.O.N.	UNLESS OTHERWISE NOTED
V.I.F.	VERIFY IN FIELD
VE	VALUE ENGINEERING
W	WEST, WIDTH, WIDE
W/	WITH
W/ O	WITHOUT
WD.	WOOD
XC	EXHIBIT CONTRACTOR

GENERAL NOTES:

NEITHER THIS DRAWING, NOR ANY SUCH IDEAS, ARRANGEMENTS, DESIGNS OR PLANS SHALL BE APPROPRIATED BY OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY USE OR PURPOSE WHATSOEVER, EXCEPT BY THE SPECIFIC AND WRITTEN PERMISSION OF RALPH APPELBAUM ASSOCIATES, INCORPORATED. WRITTEN DIMENSIONS ON DRAWINGS SHALL HAVE AUTHORITY OVER SCALED. CONTRACTORS AND MANUFACTURERS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND INFORM THIS OFFICE OF ALL VARIATIONS FROM THE DRAWING PRIOR TO PERFORMING THE WORK. THIS OFFICE SHALL FIRST SEE AND APPROVE CONTRACTOR'S FULL SIZE SHOP DETAILS BEFORE ANY FABRICATION. THE DRAWING ILLUSTRATES DESIGN INTENT ONLY. IT IS THE FABRICATOR'S RESPONSIBILITY TO VERIFY AND INSURE THE STRUCTURAL INTEGRITY OF THIS DESIGN WITH A LICENSED STRUCTURAL ENGINEER.

GENERAL AUDIO VISUAL REQUIREMENTS:

AV ROOM REQUIREMENTS:

1) RACKS SHALL BE KEPT AWAY FROM HIGH CURRENT AREAS I.E. TRANSFORMERS, AC UNITS, ETC. IF THIS IS NOT POSSIBLE RACKS SHALL BE SHIELDED FROM THESE AREAS. METHOD TO BE APPROVED BY AN AV CONSULTANT.
2) (6) 20 AMP CIRCUITS WILL BE REQUIRED FOR EACH AV EQUIPMENT RACK. ANTICIPATE AN AVERAGE 50% LOADING FOR EACH CIRCUIT. IT IS SAFE TO ASSUME AS MUCH AS 80% OF TOTAL LOAD WILL BE CONVERTED TO HEAT.
3) PROVIDE COOLING AND HEATING WITH A CONSISTENT TEMPERATURE NO LESS THEN 65˚F AND NO HIGHER THAN 75˚F. HUMIDITY IN ROOM SHALL BE NO LESS THAN 40 % AND NO GREATER THAN 60 %, NON-CONDENSING.
4) PAINT AND SEAL ALL SURFACE (FLOORS, WALLS AND CEILINGS) TO CREATE CLEAN ENVIRONMENT.
5) AVOID RUNNING ANY PLUMBING AND OR SPRINKLER PIPES OVER RACKS.
6) PROVIDE 12" CLEARANCE BETWEEN RACKS AND CABLE TROUGH OVER RACKS IN ORDER TO ALLOW FOR ENOUGH CLEARANCE FOR FANS AT TOP OF RACKS.
7) PROVIDE (1) VOICE LINES AND (1) DATA/MODEM LINE IN ROOM.
8) PROVIDE CONVENIENCE OUTLETS FOR CLEANING PURPOSES AS PER LOCAL CODE REQUIREMENTS.

AV SCOPE DELINEATION:

GENERAL CONTRACTOR:

1) ALL POWER AND AV CONDUIT IS TO A TERMINATION POINT LOCAL TO EXHIBIT ARMATURES (SEE FUTURE SUBMISSION DRAWINGS FOR POWER AND AV TERMINATION POINT LOCATIONS)
2) ALL AV CONDUIT IS TO BE PROVIDED WITH PULL LINES

EXHIBIT CONTRACTOR:

1) EXTENSION OF POWER WITHIN EXHIBIT CONSTRUCTION IS BY EXHIBIT CONTRACTOR. (AV HARDWARE IS SUPPLIED AND INSTALLED BY EITHER, THE EXHIBIT CONTRACTOR OR AV INTEGRATOR.

AC POWER GROUNDING NOTES:

1) CONNECT ALL GROUNDING CONDUCTORS AT THE "TECHNICAL GROUND" POINT ONLY, WHICH SHALL BE THE GROUND BUSBAR BONDED TO THE EQUIPMENT RACK CHASSIS FOR EACH EQUIPMENT RACK.
2) DO NOT "BUS" GROUNDING CONDUCTORS. "HOMERUN" EACH GROUNDING CONDUCTOR AS SHOWN.
3) EACH GROUND BUSBAR WITHIN THE EQUIPMENT RACK SHALL BE BONDED TO BRIGHT METAL OF THE EQUIPMENT RACK WITH THE APPROPRIATE ANTI-OXIDENT EMPLOYED AT THE COPPER TO RACK INTERFACE.
4) UTILIZE THE GROUND BUSBAR WITHIN EACH EQUIPMENT RACK TO GROUND THE CHASSIS OF OTHER EQUIPMENT THAT IS NOT GROUNDED BY THE THIRD PIN.
5) ONLY MULTIPLE OUTLET STRIPS WITH THIRD PIN CONNECTIONS ISOLATED FROM THEIR ENCLOSURE SHALL BE USED INSIDE THE EQUIPMENT RACKS.
6) MAINTAIN ELECTRICAL ISOLATION FROM ALL CONDUITS, CABLE TROUGHS, AND JUNCTION BOXES OUTSIDE OF THE EQUIPMENT RACK SYSTEM TO PREVENT CORRUPTION OF THE "TECHNICAL GROUND".
7) PROVIDE INSULATED RACK WASHERS FOR MOUNTING VIDEO EQUIPMENT INTO EQUIPMENT RACKS.
8) ANY AC POWER SWITCHING DEVICES OR RELAYS SHALL NOT INTERRUPT GROUNDING CONDUCTORS.

GENERAL LIGHTING REQUIREMENTS:

GENERAL:

BASIC ARCHITECTURAL, MAINTENANCE AND EMERGENCY LIGHTING MUST BE OPERATED ON A SEPARATE SELF-CONTAINED SYSTEM. EXHIBIT AREA LIGHTING WILL BE MONITORED BY A SEPARATE EMERGENCY LIGHTING SYSTEM, AND LOSS OF EXHIBIT AREA LIGHTING POWER WILL AUTOMATICALLY PROVIDE EMERGENCY LIGHTING IN THE SPACE.

DISTRIBUTION:

THE EXHIBIT DESIGN WILL USE A RANGE OF FLUSH TRACK MOUNTED AND INTEGRATED LED LIGHTING INSTRUMENTS. THESE INSTRUMENTS WILL BE INSTALLED ON THE CEILING OF THE EXHIBIT SPACES OR INTEGRATED INTO EXHIBIT ARMATURE. ALL EXHIBIT LIGHTS WILL BE CONNECTED TO REMOTE RACK MOUNTED CONTROLS.

CONTROLS:

LIGHTING FOR THE EXHIBITS WILL BE CONTROLLED USING A PROGRAMMABLE SHOW CONTROLLER. THE CONTROLLER WILL BE LOCATED WITHIN AN AV CLOSET ADJACENT TO EACH SPACE.

SCOPE DELINEATION:

A. GENERAL CONTRACTOR

1) SUPPLY AND INSTALL ALL TRACK, RELATED HEADS AND FLUSH MOUNTED FIXTURES UNLESS SPECIFIED OTHERWISE
2) SUPPLY AND INSTALL ALL LED'S WITHIN BASE BUILDING FIT-OUT

B. EXHIBIT CONTRACTOR

1) SUPPLY AND INSTALL ALL LED'S,LIGHT FIXTURES INTEGRATED IN EXHIBIT ARMATURES, CASES, AND ASSEMBLIES.

GENERAL AUDIO VISUAL REQUIREMENTS:

AV ROOM REQUIREMENTS:

1) 2 RACKS PER ZONE 1 AND ZONE 2 REQUIRED.
2) RACKS SHALL BE KEPT AWAY FROM HIGH CURRENT AREAS I.E. TRANSFORMERS, AC UNITS, ETC. IF THIS IS NOT POSSIBLE RACKS SHALL BE SHIELDED FROM THESE AREAS. METHOD TO BE APPROVED BY AN AV CONSULTANT.
3) (3) 20A CIRCUITS WILL BE REQUIRED FOR EACH AV EQUIPMENT RACK. ANTICIPATE AN AVERAGE OF 50% LOADING FOR EACH CIRCUIT. IT IS SAFE TO ASSUME AS MUCH AS 95% PERCENT OF TOTAL LOAD WILL BE CONVERTED TO HEAT.
4) PROVIDE COOLING AND HEATING WITH A CONSISTENT TEMPERATURE NO LESS THEN 65˚F AND NO HIGHER THAN 75˚F. HUMIDITY IN ROOM SHALL BE NO LESS THAN 40 % AND NO GREATER THAN 60 %, NON-CONDENSING.
5) PAINT AND SEAL ALL SURFACE (FLOORS, WALLS AND CEILINGS) TO CREATE CLEAN ENVIRONMENT.
6) AVOID RUNNING ANY PLUMBING AND OR SPRINKLER PIPES OVER RACKS.
7) PROVIDE 12" CLEARANCE BETWEEN RACKS AND CABLE TROUGH OVER RACKS IN ORDER TO ALLOW FOR ENOUGH CLEARANCE FOR FANS AT TOP OF RACKS.
8) PROVIDE (1) VOICE LINES AND (1) DATA/MODEM LINE IN ROOM.
9) PROVIDE CONVENIENCE OUTLETS FOR CLEANING PURPOSES AS PER LOCAL CODE REQUIREMENTS.

AV SCOPE DELINEATION:

GENERAL CONTRACTOR:

1) ALL POWER AND AV CONDUIT IS TO A TERMINATION POINT LOCAL TO EXHIBIT ARMATURES (DRAWINGS WILL BE AVAILABLE IN FUTURE SUBMISSIONS FOR POWER AND AV TERMINATION POINT LOCATIONS)
2) ALL AV CONDUIT IS TO BE PROVIDED WITH PULL LINES

EXHIBIT CONTRACTOR:

1) EXTENSION OF POWER WITHIN EXHIBIT CONSTRUCTION IS BY EXHIBIT CONTRACTOR. (AV HARDWARE IS SUPPLIED AND INSTALLED BY EITHER, THE EXHIBIT CONTRACTOR.

AV POWER GROUNDING NOTES:

1) CONNECT ALL GROUNDING CONDUCTORS AT THE "TECHNICAL GROUND" POINT ONLY, WHICH SHALL BE THE GROUND BUSBAR BONDED TO THE EQUIPMENT RACK CHASSIS FOR EACH EQUIPMENT RACK.
2) DO NOT "BUS" GROUNDING CONDUCTORS. "HOMERUN" EACH GROUNDING CONDUCTOR AS SHOWN.
3) EACH GROUND BUSBAR WITHIN THE EQUIPMENT RACK SHALL BE BONDED TO BRIGHT METAL OF THE EQUIPMENT RACK WITH THE APPROPRIATE ANTI-OXIDENT EMPLOYED AT THE COPPER TO RACK INTERFACE.
4) UTILIZE THE GROUND BUSBAR WITHIN EACH EQUIPMENT RACK TO GROUND THE CHASSIS OF OTHER EQUIPMENT THAT IS NOT GROUNDED BY THE THIRD PIN.
5) ONLY MULTIPLE OUTLET STRIPS WITH THIRD PIN CONNECTIONS ISOLATED FROM THEIR ENCLOSURE SHALL BE USED INSIDE THE EQUIPMENT RACKS.
6) MAINTAIN ELECTRICAL ISOLATION FROM ALL CONDUITS, CABLE TROUGHS, AND JUNCTION BOXES OUTSIDE OF THE EQUIPMENT RACK SYSTEM TO PREVENT CORRUPTION OF THE "TECHNICAL GROUND"
7) PROVIDE INSULATED RACK WASHERS FOR MOUNTING VIDEO EQUIPMENT INTO EQUIPMENT RACKS.
8) ANY AC POWER SWITCHING DEVICES OR RELAYS SHALL NOT INTERRUPT GROUNDING CONDUCTORS.

CONTROLLED ENVIRONMENT MILESTONE DESCRIPTION

ACHIEVEMENT OF A DUST CONTROLLED ENVIRONMENT MILESTONE SHALL BE THE RESPONSIBILITY OF THE GC. AT THAT MILESTONE, THE EXHIBITION AREA MUST BE COMPLETELY ENCLOSED. THE GC SHALL NOW TURNOVER THE EXHIBITION AREAS TO BE CONTROLLED BY THE EXHIBITION FABRICATOR RETAINED BY RAA. NO CONCRETE OR MASONRY WORK CAN BE PERFORMED IN THE EXHIBITION AREAS OR AREAS IMMEDIATELY ADJACENT TO THEM FOR THE DURATION OF THE IMPLEMENTATION STAGE, AND NO GRINDING SANDING OR POLISHING WORK MAY BE PERFORMED WITHOUT IT BEING COMPLETELY SEALED-OFF. DURING THE INITIAL WORK OF THE EXHIBITION INSTALLATION PROCESS SOME DUST IS GENERATED BY THE FABRICATION AND INSTALLATION CREW AND WITHIN REASONABLE LIMITS SOME MINIMAL DUST GENERATING WORK PERFORMED BY THE GC WITHIN THE EXHIBITION AREAS, SUCH AS INSTALLATION OF ELECTRICAL FIXTURES, HVAC DIFFUSERS, EXIT SIGNS, ETC., MAY BE ACCEPTABLE BUT SUCH WORK MUST BE MONITORED AND APPROVED BY RAA'S DESIGNATED FABRICATOR. ANY GC WORK IN ADJACENT AREAS TO THE EXHIBITS THAT DOES NOT MEET THE CRITERIA DESCRIBED ABOVE, MUST BE PARTITIONED OFF SO THAT WORK BY EXHIBITION INSTALLATION IS NOT EXPOSED TO CONDITIONS THAT DO NOT MEET THE REQUIRED ENVIRONMENTAL PARAMETERS. THE FOLLOWING SHALL BE THE REQUIRED PARAMETERS THAT THE GC WILL NEED TO COMPLY WITH AS PART OF THE PROJECT'S OPERATING ENVIRONMENTAL CONDITIONS (ANY VARIATIONS ON THIS REQUIREMENTS, IF DEEMED NECESSARY UPON THE EVOLUTION OF THE IMPLEMENTATION SERVICES SHALL BE COMMUNICATED TO THE GC BY RAA AND RAA SHALL ENSURE PROPER COMMUNICATIONS BETWEEN THE GC AND THE FABRICATOR TO REACH AN AGREEMENT PRIOR TO THE INSTALLATION OF THE EXHIBITS ON SITE):

• RELATIVE HUMIDITY (RH):

RELATIVE HUMIDITY SHOULD BE MAINTAINED BETWEEN 45-55% (RH) THROUGHOUT THE YEAR, ALLOWING A SEASONAL FLUCTUATION BETWEEN THE TWO EXTREMES, BUT HOLDING A DAILY FLUCTUATION TO +3%

• TEMPERATURE CONTROL:

TEMPERATURE SHOULD BE MAINTAINED BETWEEN 18-24˚ C (65-75˚ F) THROUGHOUT THE YEAR ALLOWING SEASONAL FLUCTUATIONS BETWEEN THE TWO EXTREMES, BUT HOLDING A DAILY FLUCTUATION TO +3˚C

• DUST PARTICLES CONTROL:

AIRBORNE DUST PARTICULATE SHOULD BE CONTROLLED USING A TWO-PASS FORCED AIR HVAC FILTRATION SYSTEM THAT ACHIEVES A MINIMUM 14 MERV RATE (MINIMUM EFFICIENCY REPORTING VALUE) AS PER ASHRAE STANDARD 52.2-2007.

ADEQUATE AND SUFFICIENT ELECTRICAL OUTLETS MUST BE ON LINE OR ADEQUATE TEMPORARY POWER SHOULD BE SUPPLIED TO THE EXHIBITION INSTALLATION AREAS.

ALL MATERIALS AND GANG BOXES BELONGING TO ANY BASE BUILDING CONTRACTOR(S) AND GC MUST BE REMOVED, LEAVING THE EXHIBITION SPACE COMPLETELY FREE AND CLEAR SO THAT THE EXHIBITION INSTALLATION CAN START. AT THIS POINT, ACCESS TO THE EXHIBITION AREAS MUST BE LIMITED TO PERSONNEL AUTHORIZED DIRECTLY BY RAA AS THE EXHIBITION COMPONENTS AND MATERIALS ARE UNWRAPPED AND STAGED IN PREPARATION TO THEM BEING INSTALLED.

SPACES ADJACENT TO THE EXHIBITION AREAS MAY NEED TO BE USED TO STAGE THE MATERIAL AS THE EXHIBIT ELEMENTS ARE BEING ASSEMBLED. A DIRECT AND CLEAR PATH TO ACCESS TO THE EXHIBITION AREAS FROM THE AREAS WHERE TRUCKS MAY BE UNLOADING THE EXHIBITION MATERIALS MUST BE COORDINATED BETWEEN THE FABRICATOR AND THE GC, AS ACCESS TO THE EXHIBITION AREAS MAY NEED TO GO THROUGH AREAS THAT HAVE NOT YET BEEN TURNED OVER TO THE EXHIBITION FABRICATORS.

DUST FREE ENVIRONMENT MILESTONE DESCRIPTION

A DUST FREE ENVIRONMENT IS THE MILESTONE ACHIEVED BY THE PROJECT WHEN NO CONSTRUCTION-PRODUCED DUST AT ALL IS PRESENT IN THE EXHIBITION AREAS OR IN THEIR ENVIRONMENTAL SYSTEMS. NO WORK THAT CREATES ANY DUST IN THE EXHIBITION AREAS OR IN ANY SPACE THAT SHARE THE EXHIBITION AREAS AIR EXCHANGE SHALL BE ALLOWED (ANY SUCH WORK THAT WILL CAUSE DUST MUST BE DONE ELSEWHERE). FOR AN AREA TO BE DEFINED AS DUST FREE, A MINIMUM OF ONE WEEK SHOULD BE ALLOWED FOR DUST TO SETTLE. ONCE DUST IS VERIFIED TO HAVE SETTLED, THE FILTERS IN THE HVAC SYSTEM SHOULD BE CLEANED AND/ OR REPLACED BEFORE THE INSTALLATION OF ANY ARTIFACTS, DOCUMENTS, A/V EQUIPMENT, AND EXHIBITION GRAPHICS CAN START.
THE CONDITIONS OF THE DUST FREE ENVIRONMENT MILESTONE MUST MATCH THOSE SPECIFIED FOR THE PROJECT'S OPERATING ENVIRONMENTAL CONDITIONS INDICATED IN THE DUST CONTROLLED ENVIRONMENT MILESTONE DESCRIPTION. ALL MECHANICAL AND ELECTRICAL SYSTEMS (INCLUDING PERMANENT STABLE POWER) MUST BE FULLY OPERATIONAL; THE SYSTEMS MUST HAVE BEEN TESTED AND BE ABLE RUN UNINTERRUPTED FOR 24 HRS PER DAY.
DURING THE FINAL INSTALLATION PHASE THAT SHALL COMMENCE UPON THE GC'S ACHIEVEMENT OF THE DUST FREE ENVIRONMENT MILESTONE, DESIGNATED STAFF SHALL BRING THE ARTIFACTS AND DOCUMENTS INTO THE EXHIBITION AREAS AND CASES, WHILE THE GRAPHICS FABRICATOR INSTALLS THE EXHIBITION GRAPHICS AND THE SYSTEMS INTEGRATOR INSTALLS AND ADJUSTS ALL COMPONENTS OF THE EXHIBITION A/V SYSTEMS (WHICH MAY NOW BE RUNNING 24 HRS A DAY).
THE BASE BUILDING MUST BE COMPLETELY SECURED (ALL SURVEILLANCE AND ALARM SYSTEMS OPERATIONAL AND MONITORED) AND ACCESS TO THE EXHIBITION AREAS SHALL BE SCHEDULED AND APPROVED EXCLUSIVELY BY THE CLIENT.

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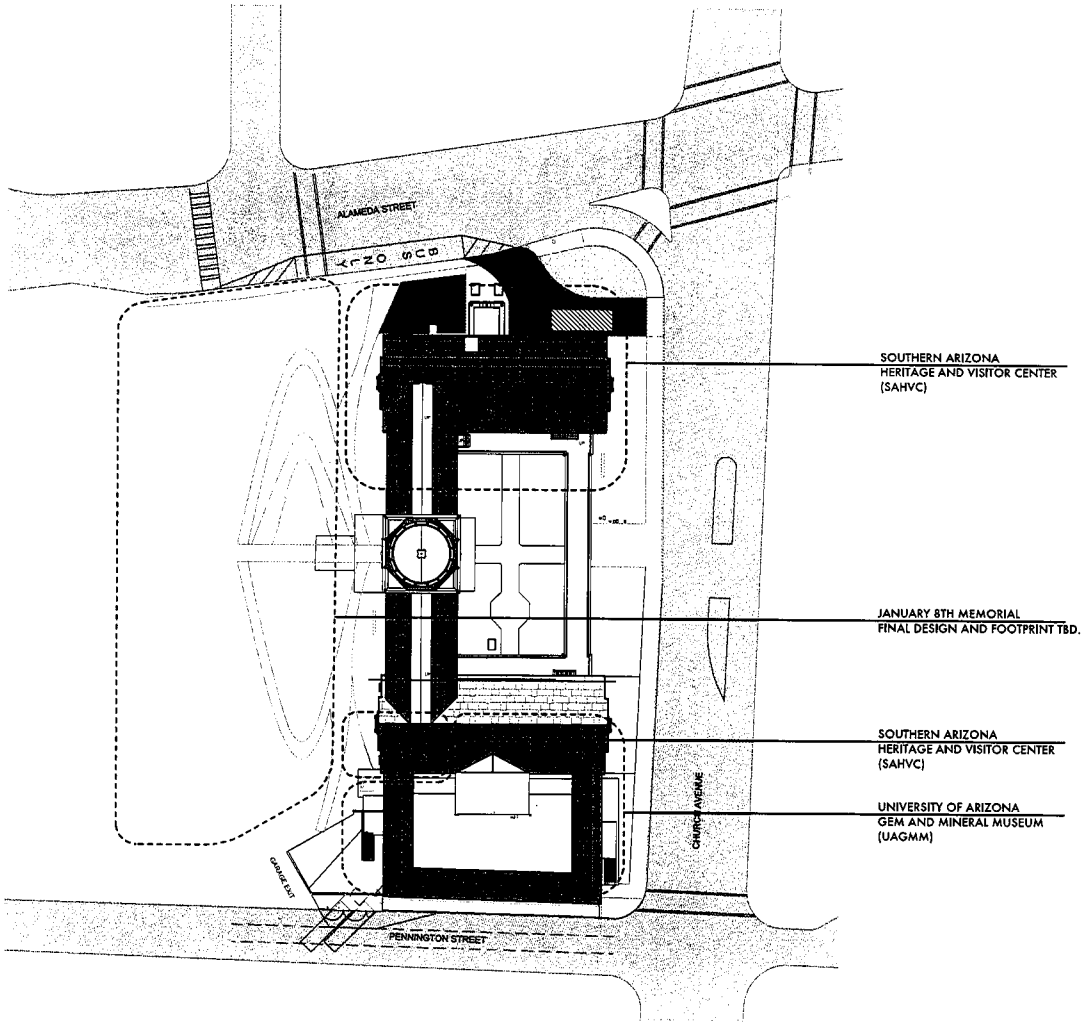

1 SITE PLAN

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Exhibit Design

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+212.334.8290 F.212.334.6214

PIMA COUNTY COURTHOUSE
Tucson, Arizona

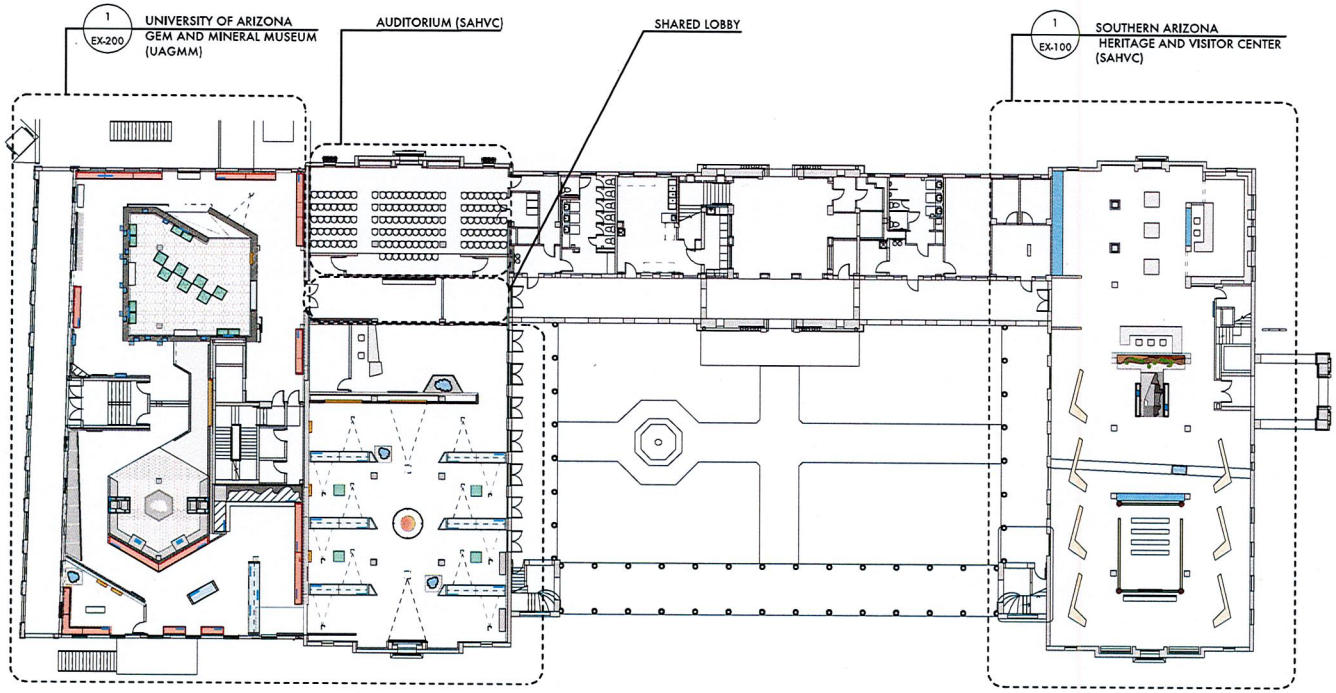
SCHEMATIC DESIGN DRAWINGS

ISSUED FOR REVIEW

SITE PLAN

Scale	NTS
Date	08/14/2018
RAA Project Number	1708

EX-005



1 OVERALL L.1 FLOOR PLAN
Scale: 1/32" = 1'-0"

PIMA COUNTY COURTHOUSE

SOUTHERN ARIZONA
HERITAGE AND VISITOR CENTER

UNIVERSITY OF ARIZONA
GEM AN MINERAL MUSEUM

115 NORTH CHURCH AVENUE
TUCSON, ARIZONA 85701

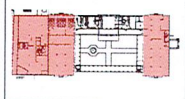
Pima County
Client

University of Arizona
Client

Poster Frost Mirto
Project Achitects

Ralph Appelbaum Associates, Inc.
Exhibit Design

Key Plan



Notes

Rev No.	Description	Date
SET 1.0	EXHIBIT SCHEMATIC DESIGN SET	08.14.18

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PIMA COUNTY COURTHOUSE
Tucson, Arizona

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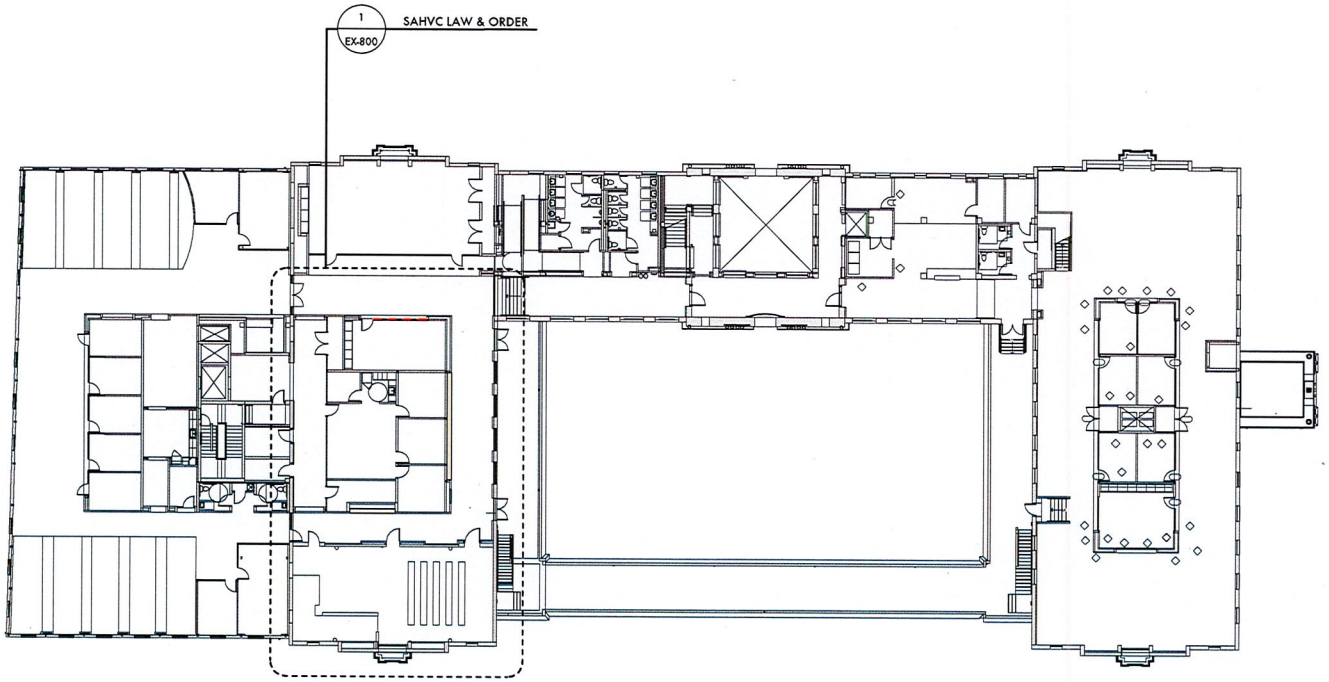
OVERALL L.1 FLOOR PLAN

Scale	NTS
Date	08/14/2018
RAA Project Number	1708

EX-010



1 OVERALL L.2 FLOOR PLAN
Scale: 1/32" = 1'-0"

PIMA COUNTY COURTHOUSE

SOUTHERN ARIZONA HERITAGE AND VISITOR CENTER

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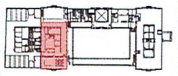

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PIMA COUNTY COURTHOUSE
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SCHEMATIC DESIGN DRAWINGS

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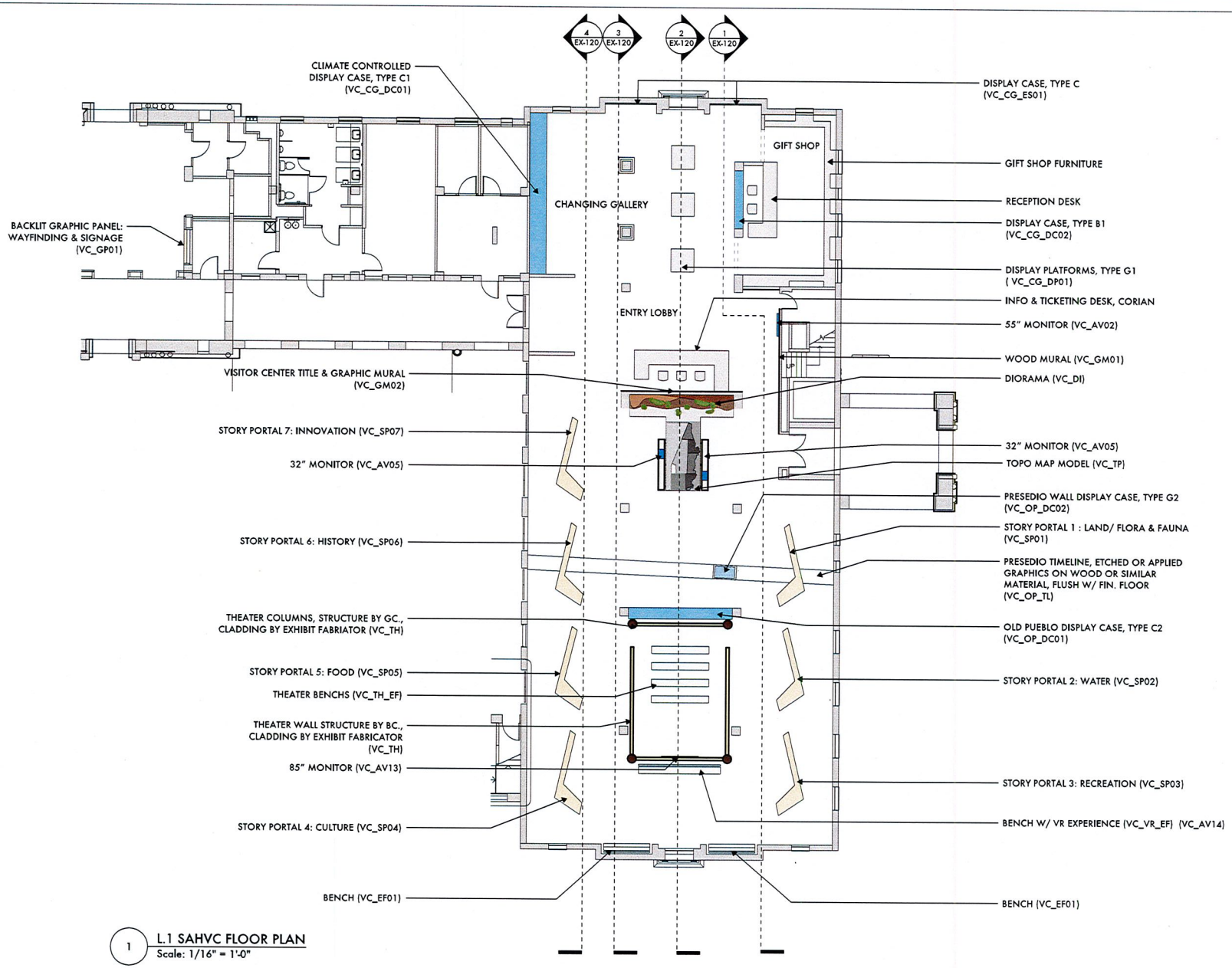
OVERALL L.2 FLOOR PLAN

Scale	NTS
Date	08/14/2018
RAA Project Number	1708

EX-020



1 L.1 SAHVC FLOOR PLAN
Scale: 1/16" = 1'-0"

PIMA COUNTY COURTHOUSE

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Tucson, Arizona

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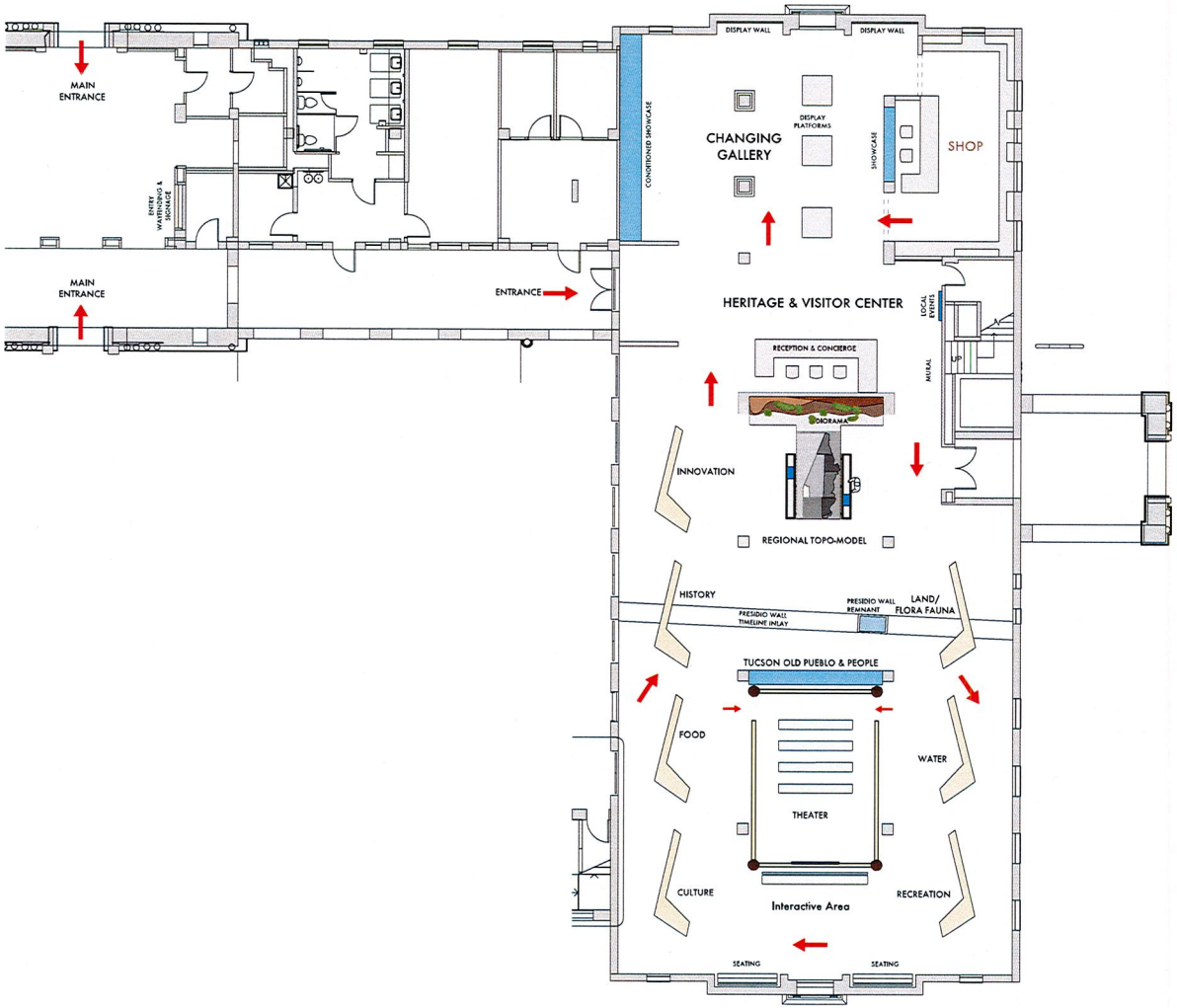
L.1 SAHVC FLOOR PLAN

Scale	NTS
Date	08/14/2018
RAA Project Number	1708

EX-100



1 L.1 SAHVC CONTENT FLOOR PLAN
Scale: 1/16" = 1'-0"

PIMA COUNTY COURTHOUSE

SOUTHERN ARIZONA HERITAGE AND VISITOR CENTER

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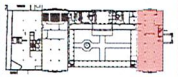

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PIMA COUNTY COURTHOUSE
Tucson, Arizona

SCHEMATIC DESIGN DRAWINGS

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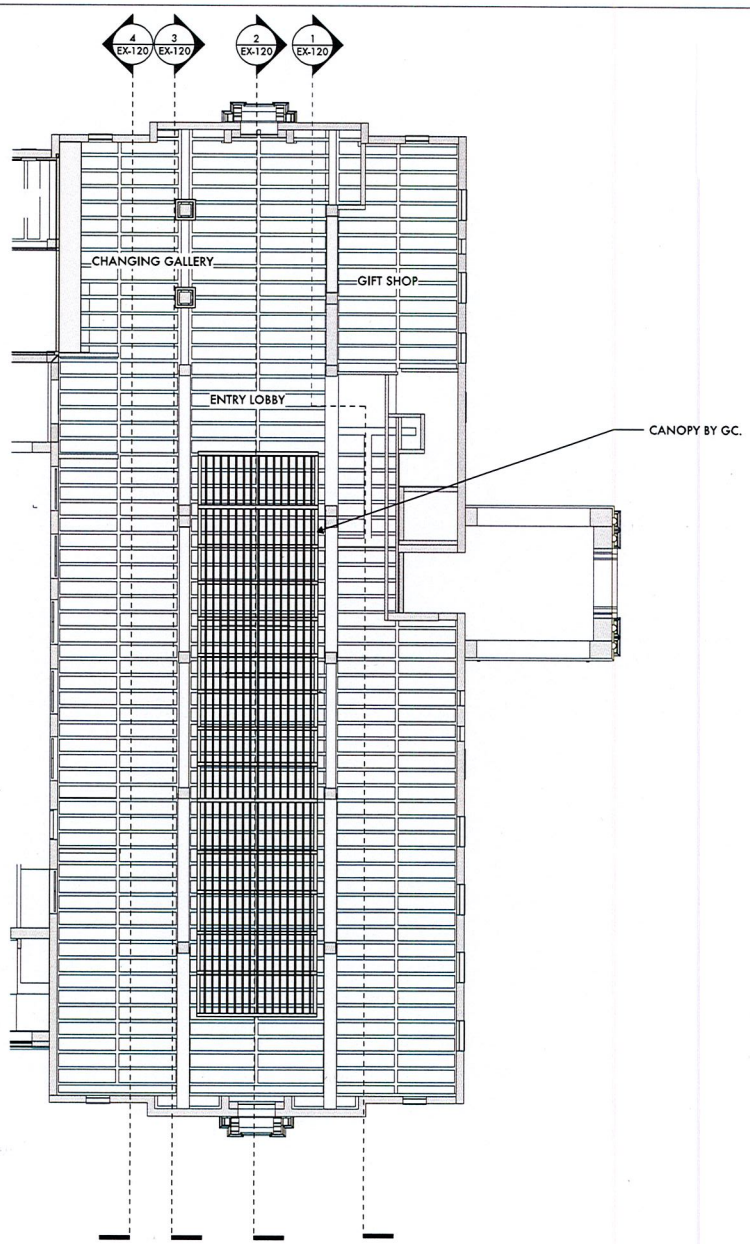
L.1 SAHVC CONTENT FLOOR PLAN

Scale	NTS
Date	08/14/2018
RAA Project Number	1708

EX-101



1 L.1 SAHVC RCP
Scale: 1/16" = 1'-0"

PIMA COUNTY COURTHOUSE

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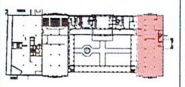

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PIMA COUNTY
COURTHOUSE
Tucson, Arizona

SCHEMATIC DESIGN
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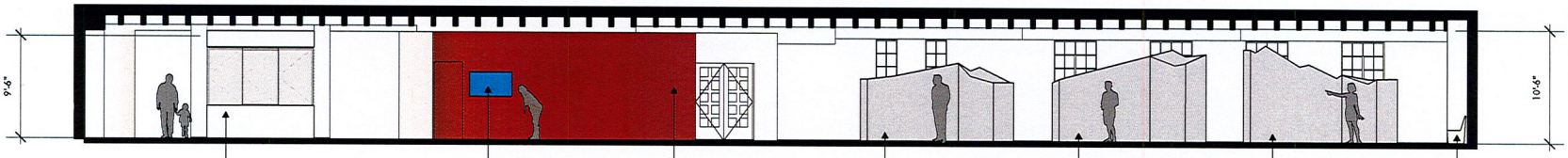
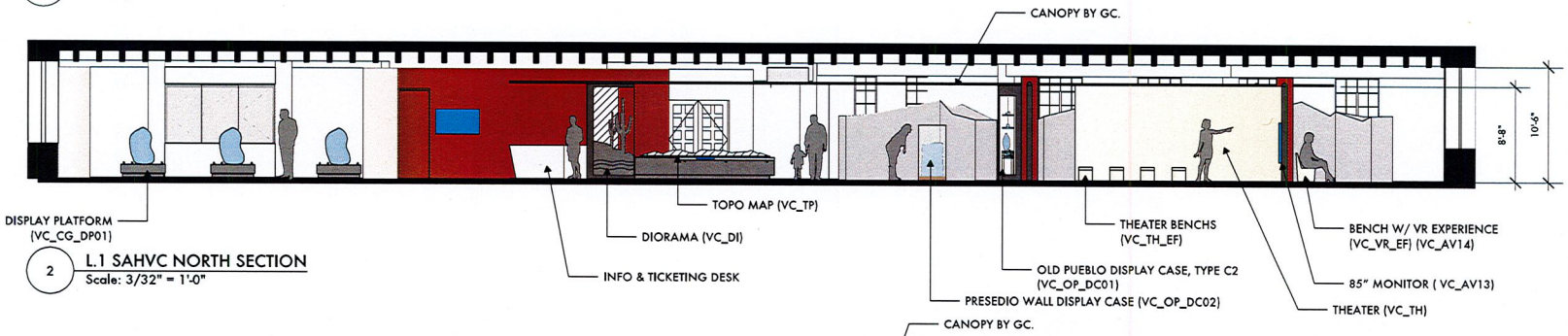
L.1 SAHVC
RCP

Scale	NTS
Date	08/14/2018
RAA Project Number	1708

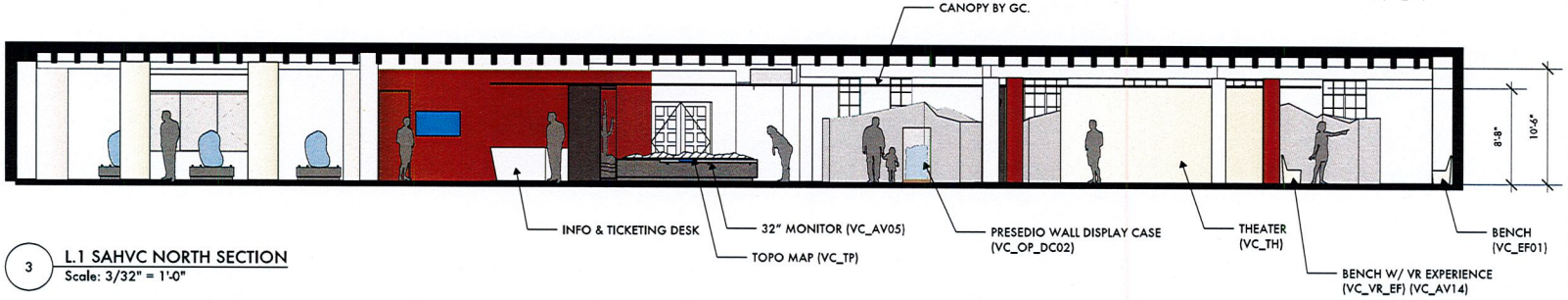
EX-110



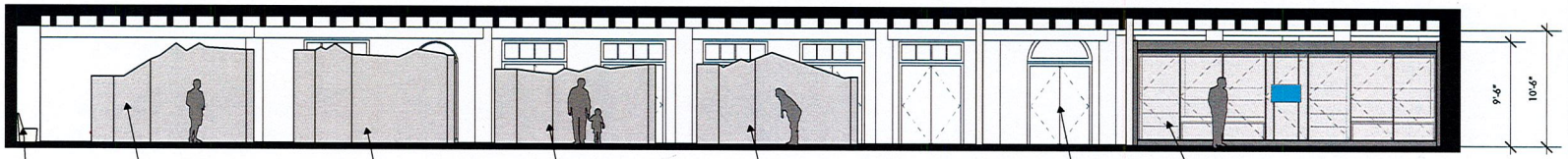
1 L.1 SAHVC NORTH SECTION
Scale: 3/32" = 1'-0"



2 L.1 SAHVC NORTH SECTION
Scale: 3/32" = 1'-0"



3 L.1 SAHVC NORTH SECTION
Scale: 3/32" = 1'-0"



4 L.1 SAHVC SOUTH SECTION
Scale: 3/32" = 1'-0"

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Tucson, Arizona

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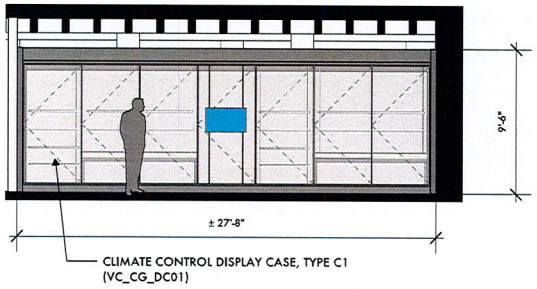
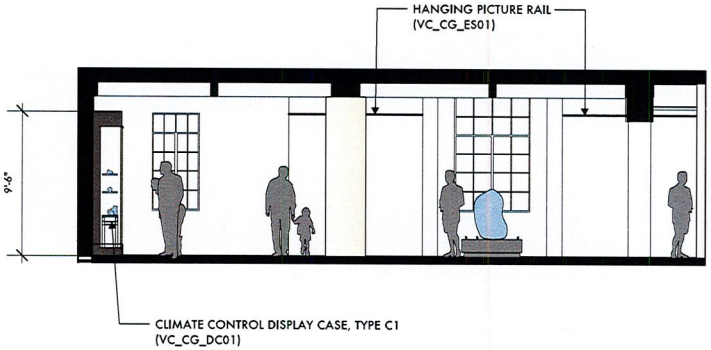
L.1 SAHVC OVERALL SECTIONS

Scale	NTS
Date	08/14/2018
RAA Project Number	1708

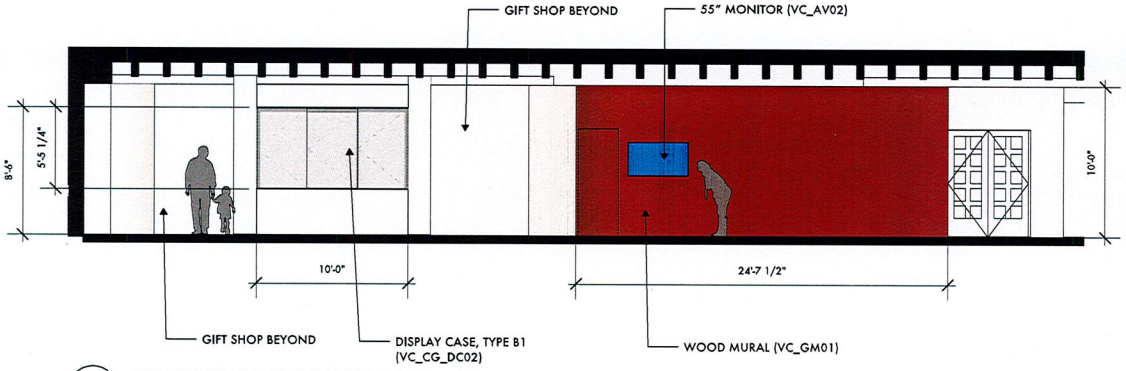
EX-120



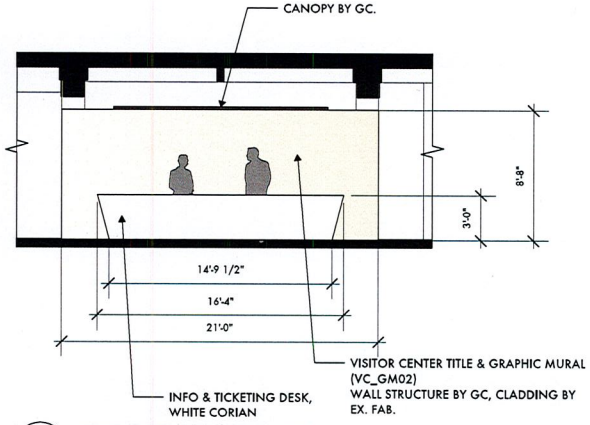
1 CHANGING GALLERY SOUTH ELEVATION
Scale: 1/8" = 1'-0"



2 CHANGING GALLERY WEST ELEVATION
Scale: 1/8" = 1'-0"



3 CHANGING GALLERY & ENTRY LOBBY NORTH ELEVATION
Scale: 1/8" = 1'-0"



4 ENTRY LOBBY EAST ELEVATION
Scale: 1/8" = 1'-0"

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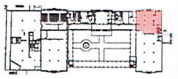

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Tucson, Arizona

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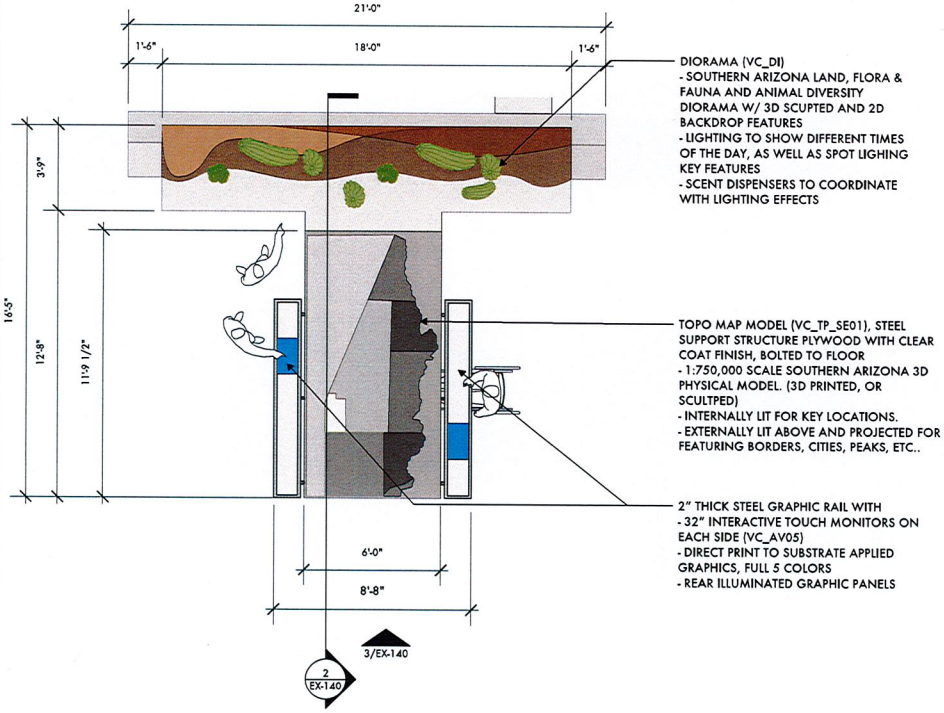
CHANGING GALLERY & ENTRY LOBBY ELEVATIONS

Scale	NTS
Date	08/14/2018
RAA Project Number	1708

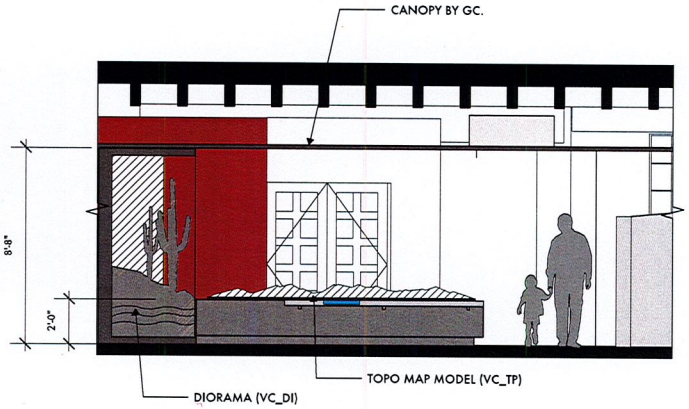
EX-130

DIORAMA REFERENCE IMAGE

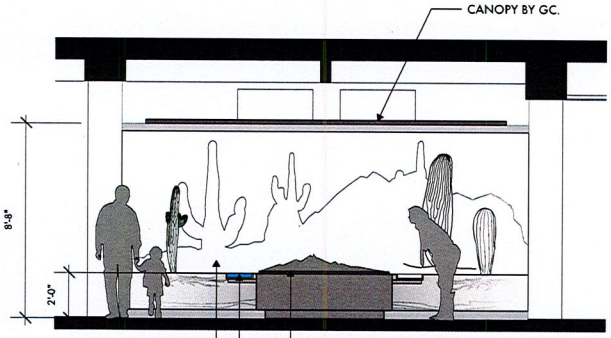
TOPO MODEL REFERENCE IMAGE



1 DIORAMA & TOPO MAP DETAIL PLAN
Scale: 3/16" = 1'-0"



2 DORAMA & TOPO MAP SECTION
Scale: 3/16" = 1'-0"



TOPO MAP MODEL (VC_TP_SE01), STEEL SUPPORT STRUCTURE PLYWOOD WITH CLEAR COAT FINISH, BOLTED TO FLOOR
- 1:750,000 SCALE SOUTHERN ARIZONA 3D PHYSICAL MODEL. (3D PRINTED, OR SCULTPED)
- INTERNALLY LIT FOR KEY LOCATIONS.
- EXTERNALLY LIT ABOVE AND PROJECTED FOR FEATURING BORDERS, CITIES, PEAKS, ETC..

2" THICK STEEL GRAPHIC RAIL WITH
- 32" INTERACTIVE TOUCH MONITORS ON EACH SIDE (VC_AV05)
- DIRECT PRINT TO SUBSTRATE APPLIED GRAPHICS, FULL 5 COLORS
- REAR ILLUMINATED GRAPHIC PANELS

DIORAMA (VC_DI)
-SOUTHERN ARIZONA LAND, FLORA & FAUNA AND ANIMAL DIVERSITY DIORAMA W/ 3D SCUPTED AND 2D BACKDROP FEATURED.
- LIGHTING TO SHOW DIFFERENT TIMES OF THE DAY, AS WELL AS SPOT LIGHTING KEY FEATURES.
-DIORAMA CONTINUES ON BOTH SIDES OF THE TOPO MAP MODEL, DISPLAYING UNDERGROUND FEATURES OF DESERT DIORAMA, BEHIND GLASS.

3 DIORAMA & TOPO MAP ELEVATION
Scale: 3/16" = 1'-0"

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PIMA COUNTY COURTHOUSE
Tucson, Arizona

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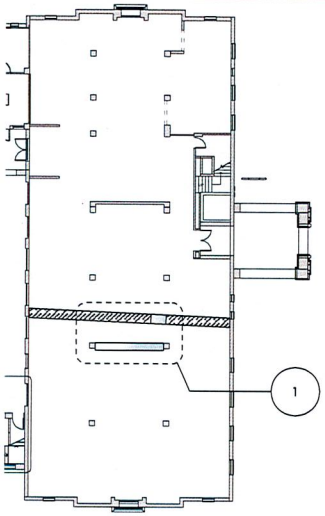
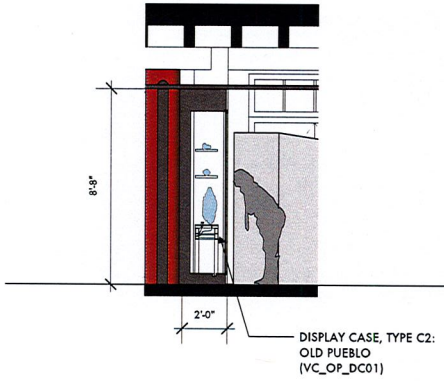
DIORAMA & TOPO MAP DETAILS

Scale	NTS
Date	08/14/2018
RAA Project Number	1708

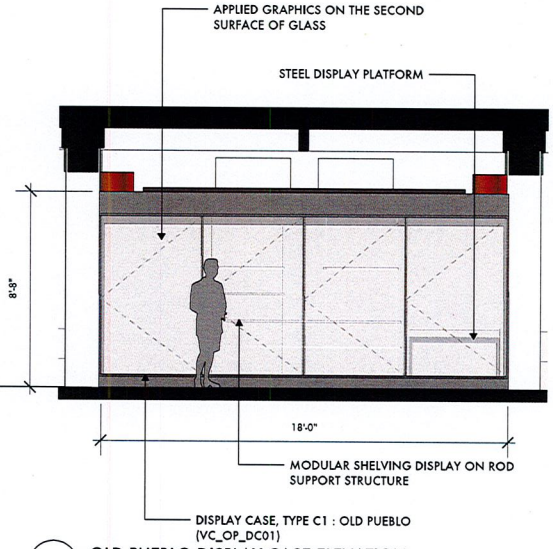
EX-140



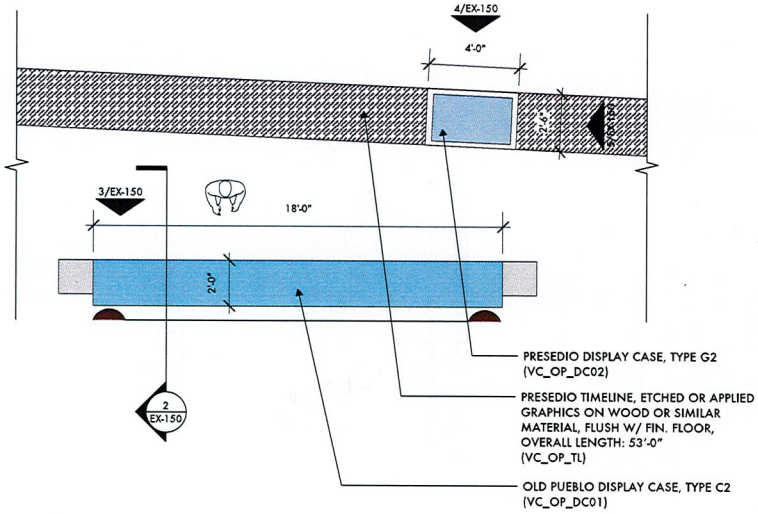
KEY PLAN



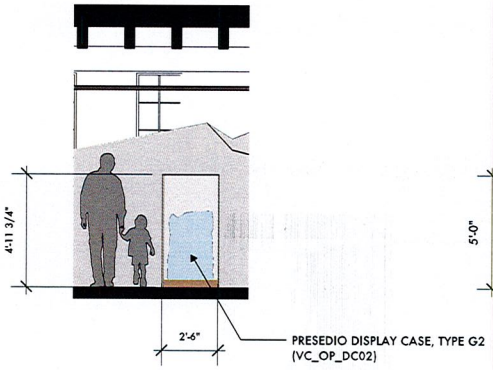
2 OLD PUEBLO DISPLAY CASE SECTION
Scale: 3/16" = 1'-0"



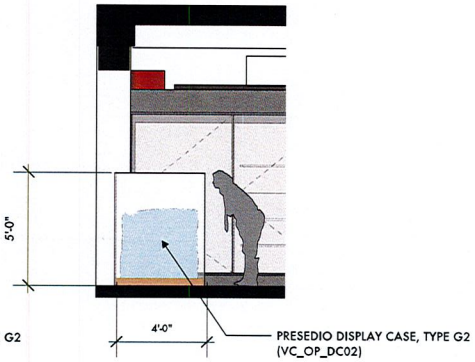
3 OLD PUEBLO DISPLAY CASE ELEVATION
Scale: 3/16" = 1'-0"



1 OLD PUEBLO & PRESEDIO EXHIBIT DETAIL PLAN
Scale: 3/16" = 1'-0"



4 PRESEDIO DISPLAY CASE ELEVATIONS
Scale: 3/16" = 1'-0"



5 PRESEDIO DISPLAY CASE ELEVATION
Scale: 3/16" = 1'-0"

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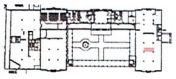

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PIMA COUNTY
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Tucson, Arizona

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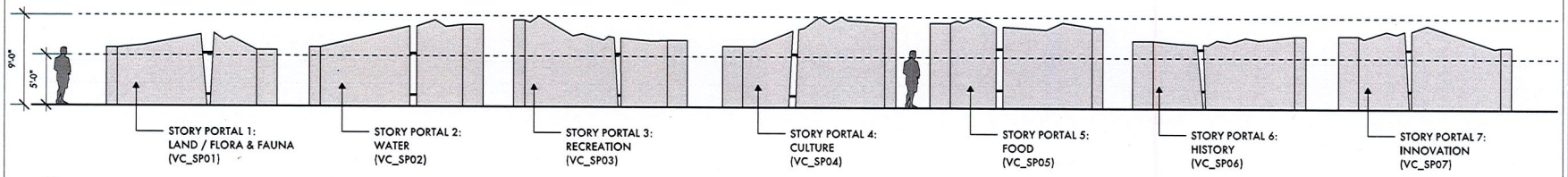
OLD PUEBLO & PRESEDIO EXHIBIT DETAILS

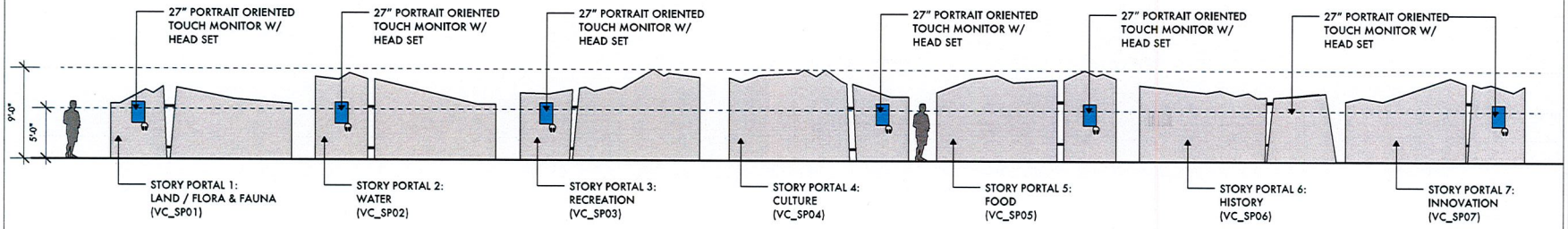
Scale	NTS
Date	08/14/2018
RAA Project Number	1708

EX-150

1 REFERENCING IMAGE OF MOUNTAINS
NTS



2 STORY PORTALS FRONT DEVELOPED ELEVATIONS
NTS



3 STORY PORTALS BACK DEVELOPED ELEVATIONS
Scale: 3/32" = 1'-0"

PIMA COUNTY COURTHOUSE

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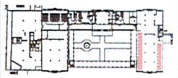

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Tucson, Arizona

SCHEMATIC DESIGN DRAWINGS

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STORY PORTALS DETAIL ELEVATIONS

Scale	NTS
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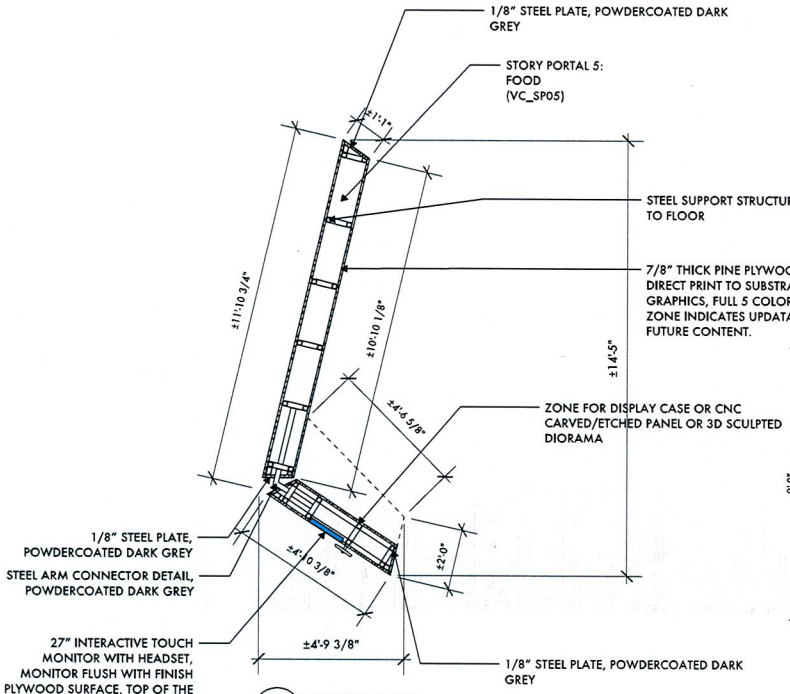
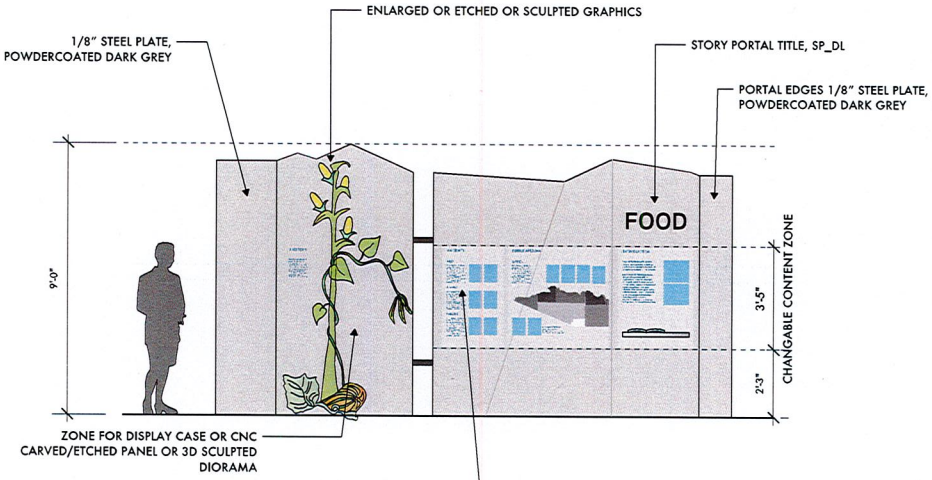
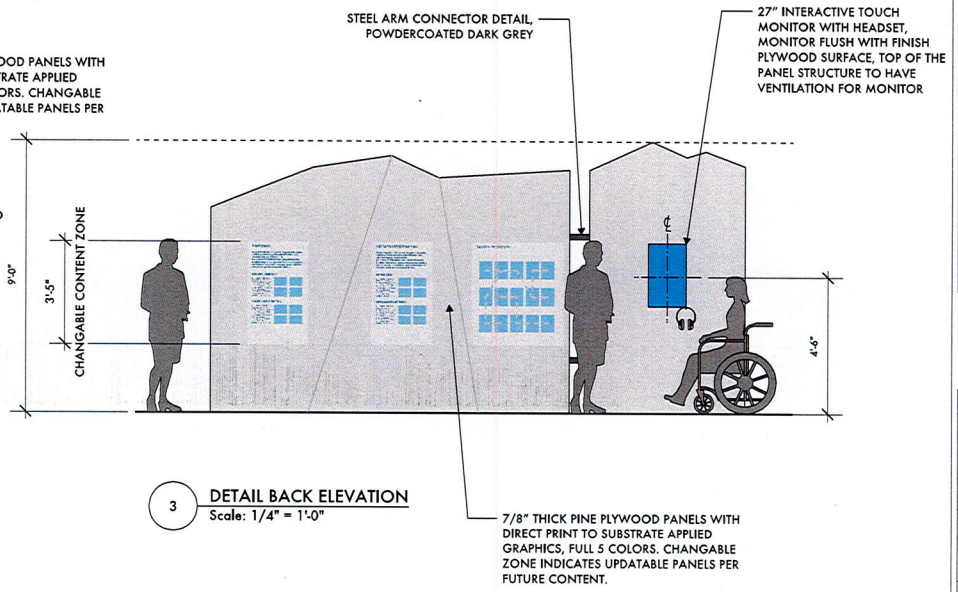
EX-160



1 **DETAIL PLAN**
Scale: 1/4" = 1'-0"



2 **DETAIL FRONT ELEVATION**
Scale: 1/4" = 1'-0"



3 **DETAIL BACK ELEVATION**
Scale: 1/4" = 1'-0"

PIMA COUNTY COURTHOUSE

SOUTHERN ARIZONA HERITAGE AND VISITOR CENTER

UNIVERSITY OF ARIZONA GEM AN MINERAL MUSEUM

115 NORTH CHURCH AVENUE
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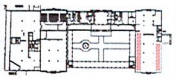
Pima County
Client

University of Arizona
Client

Poster Frost Mirto
Project Achitects

Ralph Appelbaum Associates, Inc.
Exhibit Design

Key Plan



Notes

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SET 1.0	EXHIBIT SCHEMATIC DESIGN SET	08.14.18

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PIMA COUNTY COURTHOUSE
Tucson, Arizona

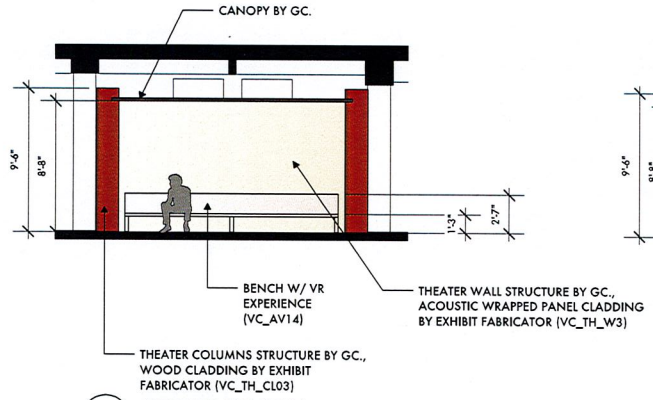
SCHEMATIC DESIGN DRAWINGS

ISSUED FOR REVIEW

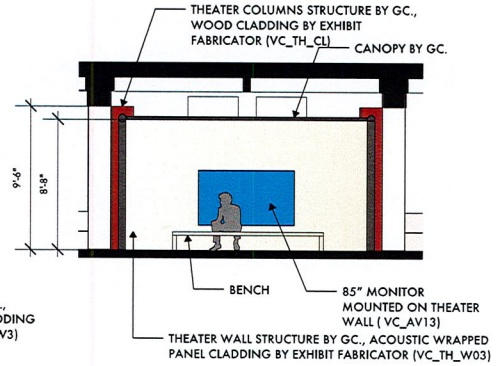
STORY PORTALS DETAILS

Scale	NTS
Date	08/14/2018
RAA Project Number	1708

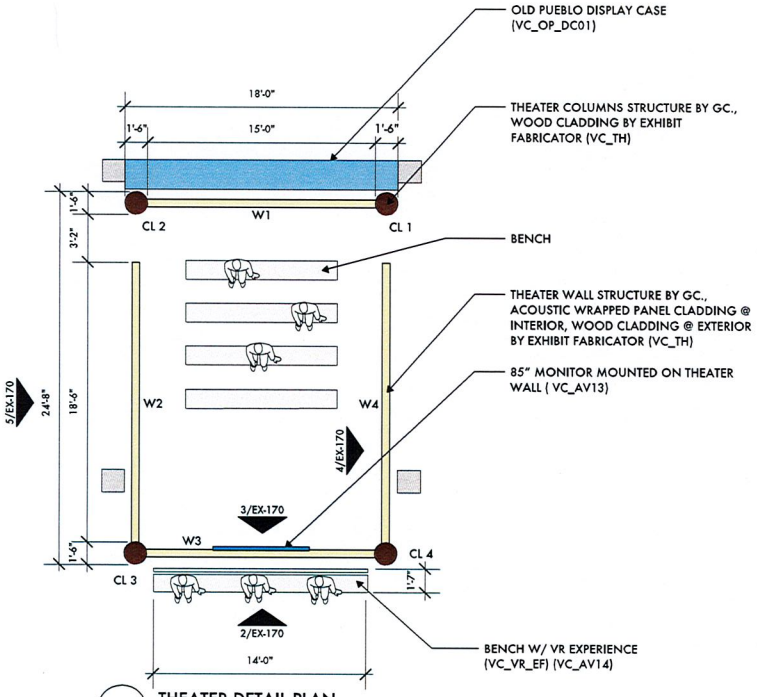
EX-161



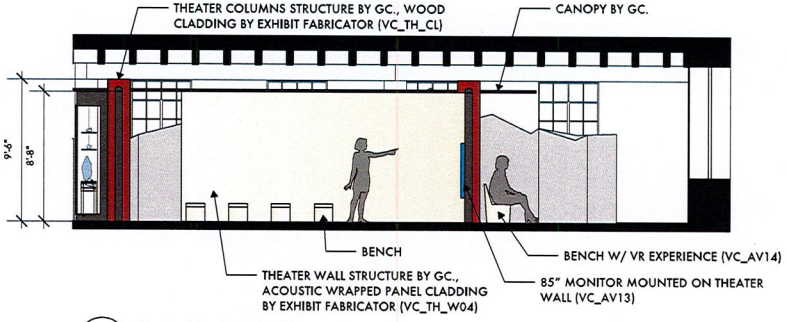
2 EXTERIOR ELEVATION
Scale: 1/8" = 1'-0"



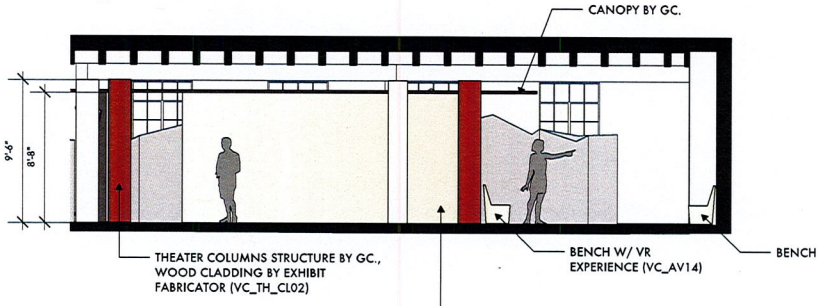
3 INTERIOR ELEVATION
Scale: 1/8" = 1'-0"



1 THEATER DETAIL PLAN
Scale: 1/8" = 1'-0"



4 INTERIOR ELEVATION
Scale: 1/8" = 1'-0"



5 EXTERIOR ELEVATION
Scale: 1/8" = 1'-0"

PIMA COUNTY COURTHOUSE

SOUTHERN ARIZONA HERITAGE AND VISITOR CENTER

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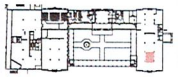

Notes

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PIMA COUNTY COURTHOUSE
Tucson, Arizona

SCHEMATIC DESIGN DRAWINGS

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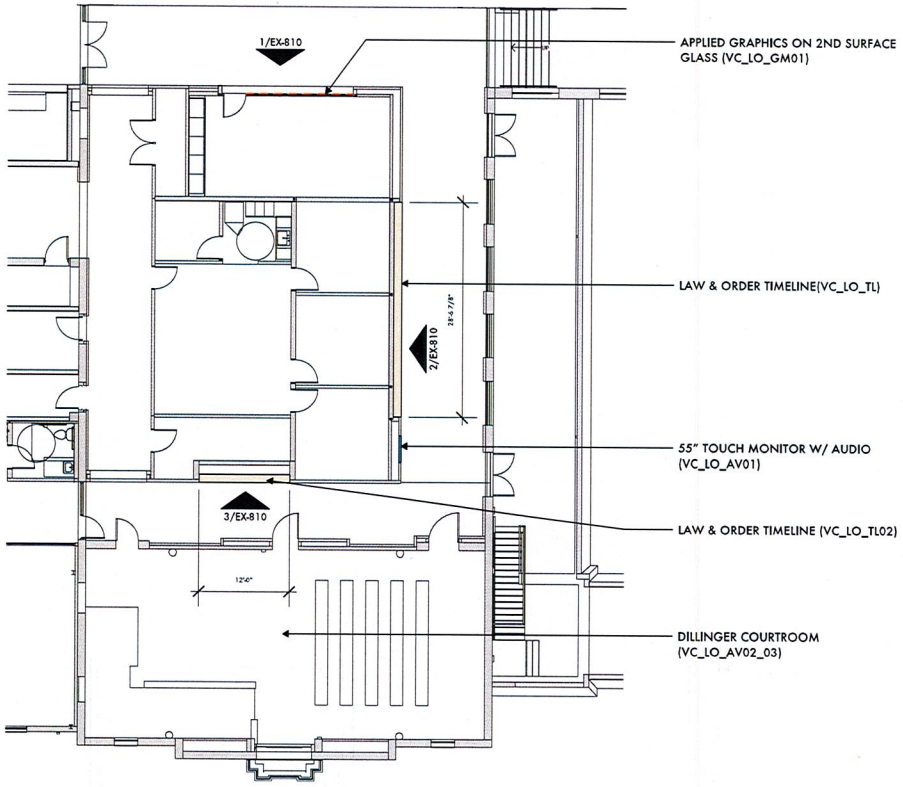
THEATER DETAIL ELEVATIONS

Scale	NTS
Date	08/14/2018
RAA Project Number	1708

EX-170



1 L.2 SAHVC LAW & ORDER FLOOR PLAN
Scale: 1/16" = 1'-0"

PIMA COUNTY COURTHOUSE

SOUTHERN ARIZONA HERITAGE AND VISITOR CENTER

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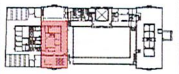

Notes

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PIMA COUNTY COURTHOUSE
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SCHEMATIC DESIGN DRAWINGS

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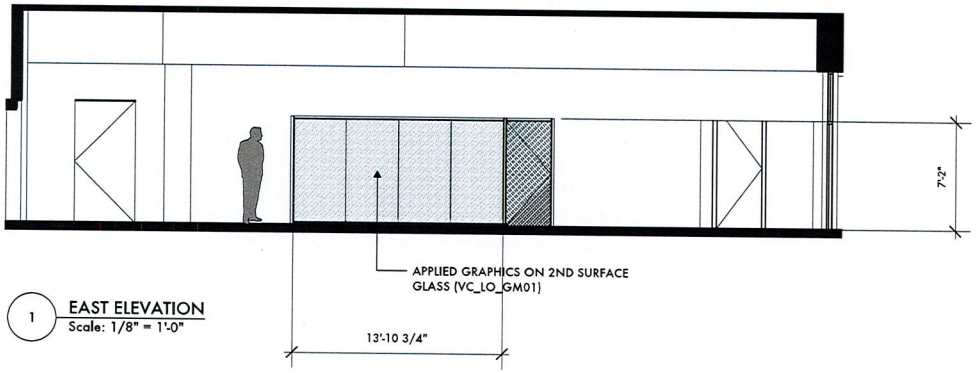
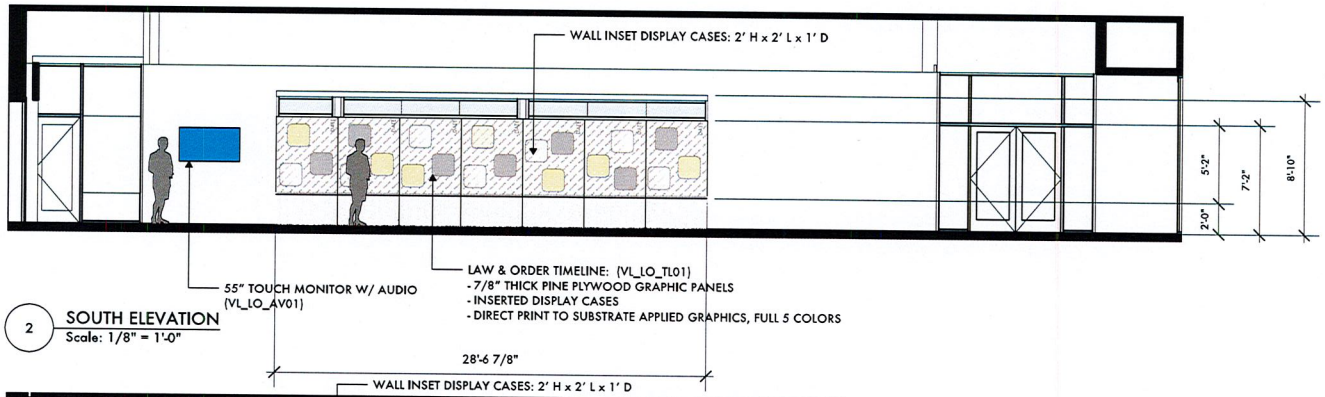
L.2 SAHVC LAW & ORDER FLOOR PLAN

Scale	NTS
Date	08/14/2018
RAA Project Number	1708

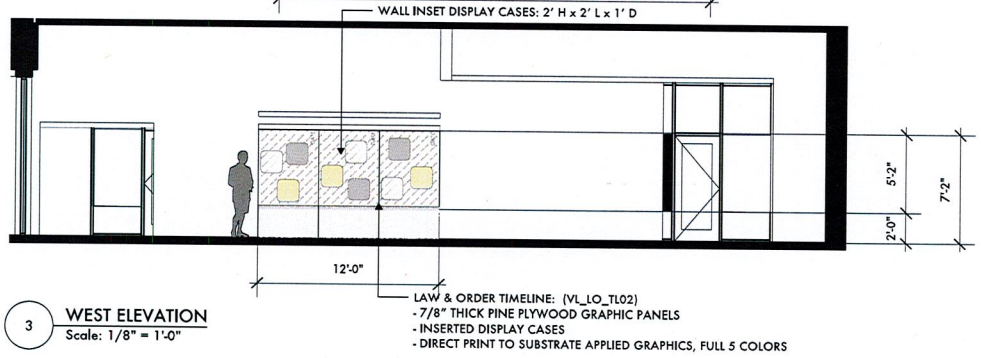
EX-800



1 EAST ELEVATION
Scale: 1/8" = 1'-0"



2 SOUTH ELEVATION
Scale: 1/8" = 1'-0"



3 WEST ELEVATION
Scale: 1/8" = 1'-0"

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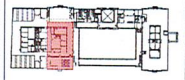

Notes

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L.2 SAHVC
LAW & ORDER
ELEVATIONS

Scale	NTS
Date	08/14/2018
RAA Project Number	1708

EX-810

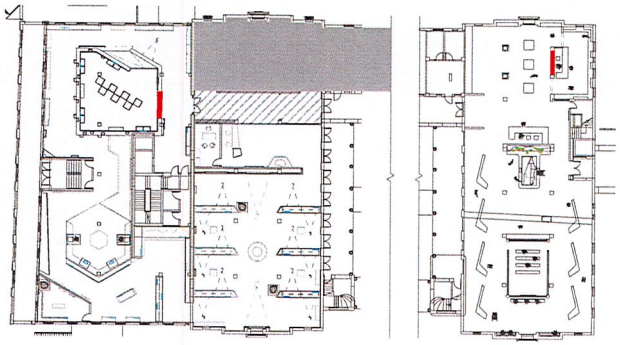
GENERAL NOTES:
- DISPLAY CASES AT MINERAL EVOLUTION GALLERY HAVE LIMITED ZONES FOR FLOOR BOLTING POINTS, PLEASE REFER TO ARCHITECTURAL COORDINATION DRAWING SET SHEET AX-201 FOR THE DESCRIBED ZONES.

- ALL DISPLAY CASES AND DISPLAY PLATFORMS BE ENGINEERED TO BE IN THE LIMIT OF 100 lbs PER SQF RESTRICTION THROUGHOUT THE BUILDING.

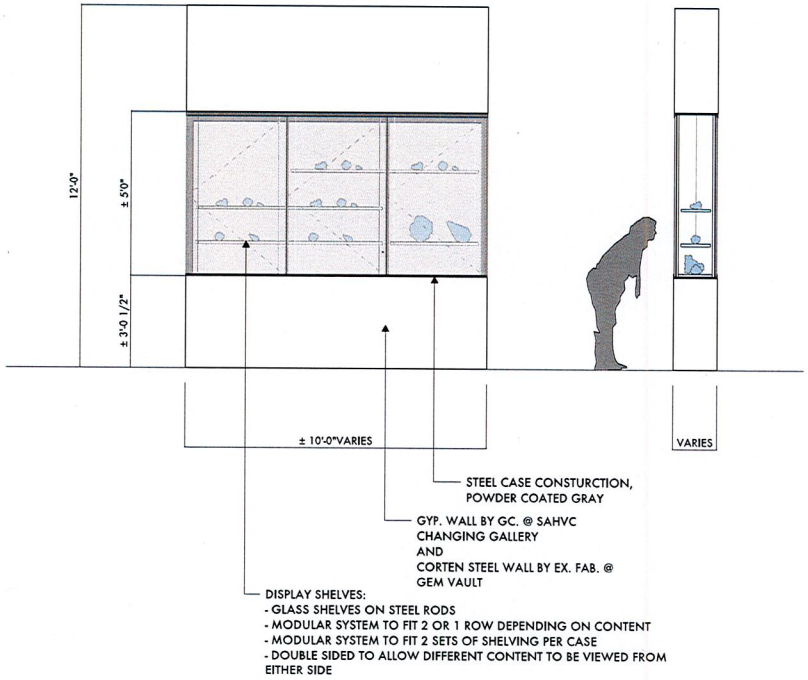
- ALL CASES INTERNAL LIGHTING SYSTEM TO BE LOCATED ON THE TOP, BOTTOM AND SIDES TO ALLOW FULL FLEXIBILITY FOR FUTURE CONTENT CHANGES.

- ALL CASES TO BE BUILD AS MODULAR DISPLAY SYSTEM TO ALLOW FULL FLEXIBILITY FOR FUTURE CONTENT CHANGE.

3 DISPLAY CASE, TYPE B1: 3D VIEW



KEY PLAN



1 DISPLAY CASE, TYPE B1: ELEVATION
Scale: 1/4" = 1'-0"

2 DISPLAY CASE, TYPE B1: SECTION
Scale: 1/4" = 1'-0"

PIMA COUNTY COURTHOUSE

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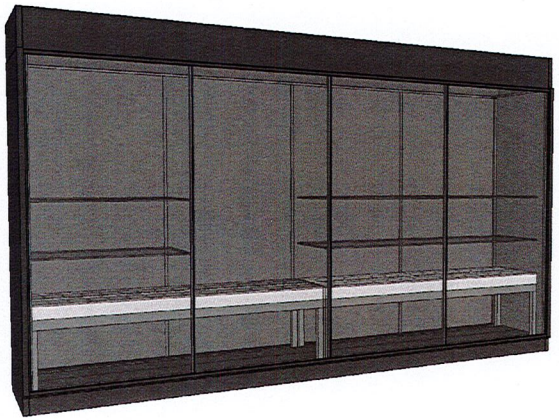
DISPLAY CASE, TYPE B1:DETAILPLAN/ SECTION/ELEVATION

Scale	NTS
Date	08/14/2018
RAA Project Number	1708

EX-911



3 DISPLAY CASE, TYPE C1 & C2: 3D VIEW

GENERAL NOTES:
- DISPLAY CASES AT MINERAL EVOLUTION GALLERY HAVE LIMITED ZONES FOR FLOOR BOLTING POINTS, PLEASE REFER TO ARCHITECTURAL COORDINATION DRAWING SET SHEET AX-201 FOR THE DESCRIBED ZONES.

- ALL DISPLAY CASES AND DISPLAY PLATFORMS BE ENGINEERED TO BE IN THE LIMIT OF 100 lbs PER SQF RESTRICTION THROUGHOUT THE BUILDING.

- ALL CASES INTERN
AL LIGHTING SYSTEM TO BE LOCATED ON THE TOP, BOTTOM AND SIDES TO ALLOW FULL FLEXIBILITY FOR FUTURE CONTENT CHANGES.

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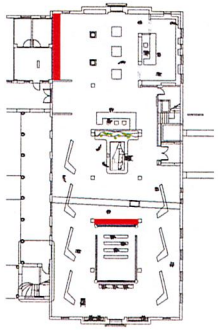
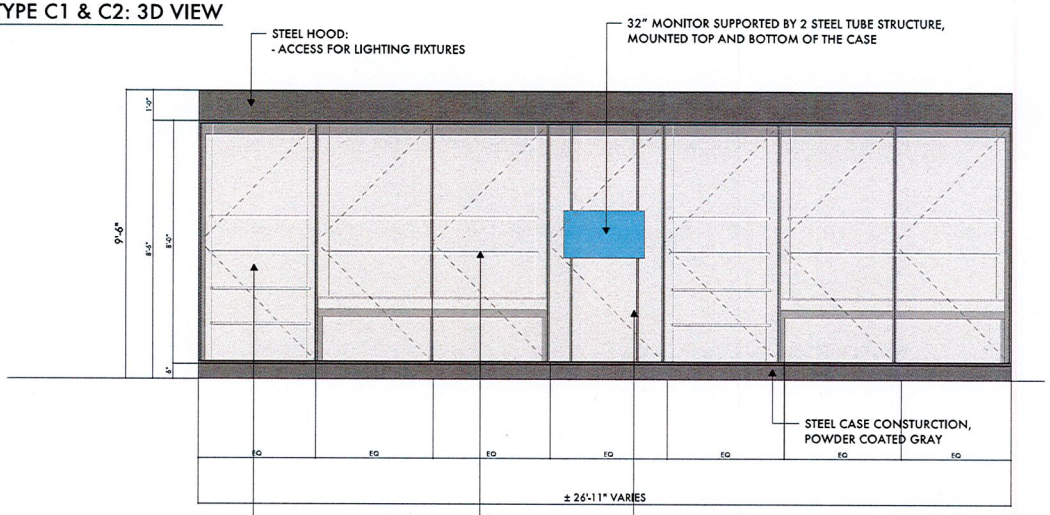
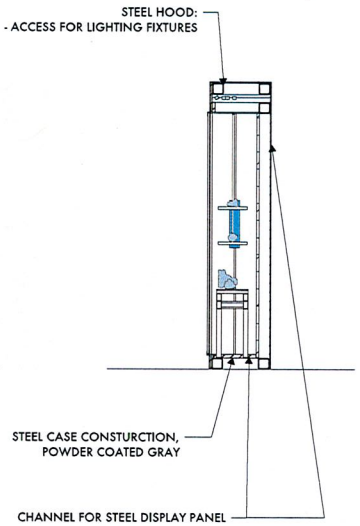
- TYPE C1: CLIMATE CONTROLLED DISPLAY CASE WITH SAME DIMENSIONS AND DESIGN.



KEY PLAN



1 DISPLAY CASE 2, TYPE C1 & C2: ELEVATION
Scale: 1/4" = 1'-0"



2 DISPLAY CASE, TYPE C1 & C2: SECTION
Scale: 1/4" = 1'-0"

PIMA COUNTY COURTHOUSE
SOUTHERN ARIZONA HERITAGE AND VISITOR CENTER

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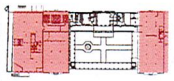

Notes

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DISPLAY CASE, TYPE C1&2: DETAIL PLAN/ SECTION/ELEVATION

Scale	NTS
Date	08/14/2018
RAA Project Number	1708

EX-921

GENERAL NOTES:
- DISPLAY CASES AT MINERAL EVOLUTION GALLERY HAVE LIMITED ZONES FOR FLOOR BOLTING POINTS, PLEASE REFER TO ARCHITECTURAL COORDINATION DRAWING SET SHEET AX-201 FOR THE DESCRIBED ZONES.

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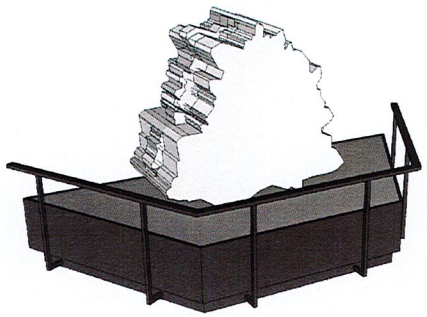
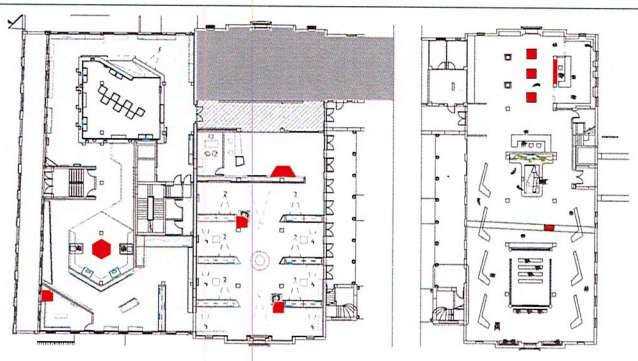
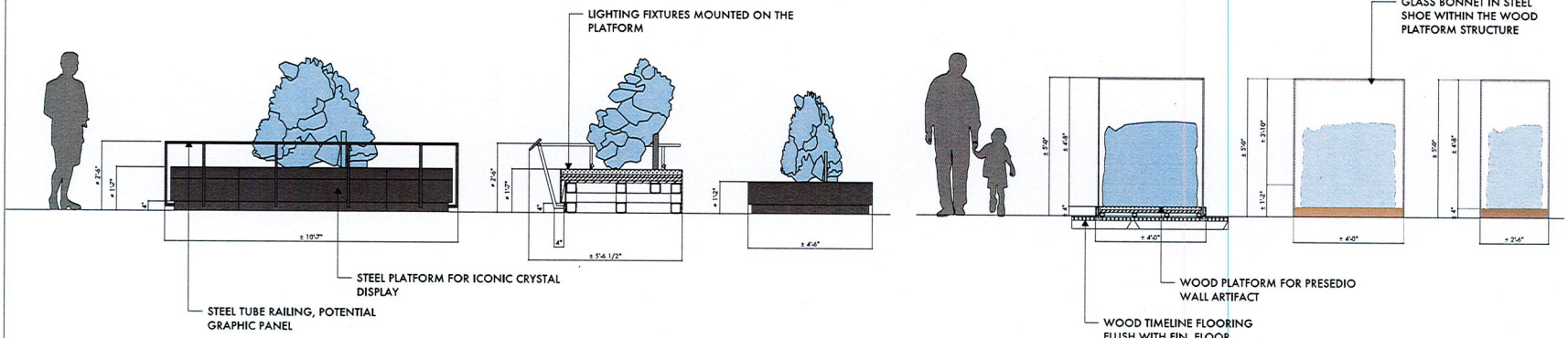


3 DISPLAY CASE, TYPE G: 3D VIEW



KEY PLAN



1 DISPLAY CASE, TYPE G: ELEVATION - SECTION
Scale: 1/4" = 1'-0"

PIMA COUNTY COURTHOUSE
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Tucson, Arizona

SCHEMATIC DESIGN DRAWINGS

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DISPLAY CASE, TYPE G: DETAIL PLAN/ SECTION/ELEVATION

Date 08/14/2018
RAA Project Number 1708

EX-960