## ALBERT BRENNER GLICKMAN FAMILY LIBRARY

## UNIVERSITY OF SOUTHERN MAINE

## **ABBREVIATIONS:**

AC, A/C AIR CONDITIONING AIR CONDITIONING CONDENSER UNIT ACPLAS ACOUSTICAL PLASTER ACT ACOUSTIC CEILING TILE ABOVE FINISHED FLOOR BORROWED LIGHT PANEL BSBRICK SHELF ELEVATION CB CATCH BASIN; CHALKBOARD CEM BD CEMENTITIOUS BACKER BOARD CUBIC FEET PER MINUTE CONTROL JOINT; CONSTRUCTION ONCRETE MASONRY UNIT COL CONC CONT CONCRETE CONTINUOUS CERAMIC TILE CABINET UNIT HEATER CHILLED WATER PRINKING FOUNTAIN DISPLAY RAIL DISHWASHER DRAWING EXHAUST FAN; EACH FACE ELEVATION EXPANSION JOINT EXPANSION ETHYLENE PROPYLENE DIENE

DETAIL
DISHWASHER
DRAWING

EACH
EXHAUST FAN; EACH FACE
ELEVATION
EXPANSION JOINT
EXPANSION
ETHYLENE PROPYLENE DIENE
MONOMER
EQUAL
EACH WAY
ELECTRIC WATER COOLER
EXISTING

FLAT BAR
FURNISHED BY OTHERS
FLOOR CLEAN—OUT
FLOOR DRAIN
FIRE EXTINGUISHER; FINISHED END
FINISHED FLOOR; FAR FACE
FRAMED OPENING
FIBERGLASS REINFORCED PLASTIC
FAR SIDE
FOOTING

GAGE
GALVANIZED
GRAB BAR
GENERAL CONTRACTOR

GRAVITY VENT
WB GYPSUM WALL BOARD

HORIZONTAL
C HANDICAPPED; HOLLOW CORE
DRIZ HORIZONTAL
M HOLLOW METAL
RU HEAT RECOVERY UNIT
WY HEATING AND VENTILATING
VAC HEATING, VENTILATING AND
AIR CONDITIONING

INSIDE FACE
ISOLATION JOINT
P IMPACT RESISTANT
S INSULATED

GYPSUM DROP-IN TILE

JOIST SUBSTITUTE

KIPS

ANGLE
SHEET LINOLEUM
LONG LEG HORIZONTAL
LONG LEG VERTICAL
LIGHTING PANEL; LIQUIFIED
PROPANE

MAXIMUM
MARKER BOARD
MEDIUM DENSITY OVERLAY
MINIMUM
MASONRY OPENING
MOISTURE—RESISTANT
MAKE—UP AIR

NOSING
NOT IN CONTRACT

NOSING
NOT IN CONTRACT
NEAR SIDE
NOT TO SCALE
ON CENTER

PUBLIC ADDRESS
POWDER-ACTUATED FASTENER
PARTICLE BOARD
POOL DEHUMIDIFICATION UNIT
PLATE
PLASTIC LAMINATE
POUNDS PER LINEAR FOOT
POWER PANEL
POUNDS PER SQUARE FOOT
POUNDS PER SQUARE INCH
PRESSURE-TREATED
POLYVINYL CHLORIDE

RISER; RADIUS
RESILIENT BASE
ROOF DRAIN
REINFORCED
REQUIRED
ROUGH OPENING
RUB-RAIL
ROOFTOP UNIT (HVAC)
SUSPENDED ACOUSTIC

TILE CEILING
SOLID CORE
SQUARE FOOT; SUPPLY FAN
SIMILAR
SHEAR KEY
SANITARY NAPKIN (DISPENSER)
SPECIAL
STAINLESS STEEL
STEEL
SANITARY VENT

TREAD
TACKBOARD
TOP AND BOTTOM
TEMPORARY BENCHMARK
TOP CHORD EXTENSION
TIE JOIST
TOP OF
TOP OF CONCRETE
TOP OF FOOTING
TOP OF MASONRY

TOP OF MASONRY
TOP OF PIER
TOP OF STEEL; TOP OF SLAB
TOP OF WALL
TOILET PAPER (DISPENSER)
TUBE STEEL
TYPICAL

UNIT HEATER
UNLESS NOTED OTHERWISE

VENT THROUGH THE ROOF

WITH
WATER CLOSER
WIDE FLANGE
WATER HEATER
WITHOUT
WORKING POINT
WEB STIFFENER
WELDED WIRE FABRIC

VAPOR BARRIER

VERTICAL

VISION PANEL

VINYL COMPOSITION TILE



## DRAWING LIST:

GENERAL

GI001 COVER SHEET
GI002 GENERAL INFORMATION

ARCHITECTURAL

AD100 BASEMENT DEMOLITION FLOOR PLAN
AD101 FIRST FLOOR DEMOLITION PLAN
AD102 SECOND FLOOR DEMOLITION PLAN
AD103 THIRD FLOOR DEMOLITION PLAN
AD104 FOURTH FLOOR DEMOLITION PLAN
AD105 FIFTH FLOOR DEMOLITION PLAN
AD106 SIXTH FLOOR DEMOLITION PLAN
AD107 SEVENTH FLOOR DEMOLITION PLAN
AD108 ROOF DEMOLITION PLAN
AD108 BASEMENT FLOOR PLAN
AF101 FIRST FLOOR PLAN

AE100 BASEMENT FLOOR PLAN
AE101 FIRST FLOOR PLAN
AE102 SECOND FLOOR PLAN
AE103 THIRD FLOOR PLAN
AE104 FOURTH FLOOR PLAN
AE105 FIFTH FLOOR PLAN
AE106 SIXTH FLOOR PLAN
AE107 SEVENTH FLOOR PLAN
AE107 SEVENTH FLOOR PLAN
AE109 SECOND FLOOR REFLECTED CEILING PLAN
AE110 THIRD FLOOR REFLECTED CEILING PLAN
AE111 FOURTH FLOOR REFLECTED CEILING PLAN

AE110 THIRD FLOOR REFLECTED CEILING PLAN
AE111 FOURTH FLOOR REFLECTED CEILING PLAN
AE112 FIFTH FLOOR REFLECTED CEILING PLAN
AE113 SIXTH FLOOR REFELECTED CEILING PLAN
AE114 SEVENTH FLOOR REFLECTED CEILING PLAN
AE115 ROOF PLAN
AE120 ALTERNATE #1 & #5 FLOOR PLANS

AE201 INTERIOR ELEVATIONS

AE210 INTERIOR ELEVATIONS — ALTERNATES #1 & #5

AE401 ENLARGED PLANS

AE402 ENLARGED PLANS

& DETAILS

AE501 MILLWORK / CASEWORK SECTIONS & DETAILS
AE502 MILLWORK / CASEWORK SECTIONS & DETAILS
AE503 PLAN DETAILS
AE504 PLAN DETAILS & SECTIONS
AE505 PLAN DETAILS

ENLARGED ELEVATOR PLANS, SECTION

AE505 PLAN DETAILS

AE510 ALTERNATE MILLWORK & CASEWORK DETAILS
AE511 ALTERNATE MILLWORK & CASEWORK DETAILS
AE512 ALTERNATE MILLWORK & CASEWORK DETAILS
AE513 ALTERNATE MILLWORK ELEVATIONS & DETAILS
AE514 ALTERNATE MILLWORK & CASEWORK DETAILS

AE601 ROOM FINISH SCHEDULE
AE602 ROOM FINISH SCHEDULE
AE603 DOOR & WINDOW SCHEDULE
AE604 NOT USED
AE605 DOOR & WINDOW SCHEDULE DETAILS

AF107 SEVENTH FLOOR FINISH PLAN

FIRE PROTECTION

FP100 BASEMENT SPRINKLER PLAN
FP101 FIRST FLOOR SPRINKLER PLAN
FP102 SECOND FLOOR SPRINKLER PLAN
FP103 THIRD FLOOR SPRINKLER PLAN
FP104 FOURTH FLOOR SPRINKLER PLAN
FP106 SIXTH FLOOR SPRINKLER PLAN
MECHANICAL

M-001 LEGEND & ABBREVIATIONS

MD101 FIRST FLOOR DEMO PLAN
MD102 SECOND FLOOR DEMO PLAN
MD103 NOT USED
MD104 NOT USED
MD105 FIFTH FLOOR DEMO PLAN
MD106 SIXTH FLOOR DEMO PLAN
MD107 SEVENTH FLOOR DEMO PLAN
MD107 SEVENTH FLOOR DEMO PLAN
MD107 SEVENTH FLOOR DEMO PLAN
MH101 FIRST FLOOR DUCTWORK PLAN
MH102 SECOND FLOOR DUCTWORK PLAN
MH103 NOT USED
MH104 NOT USED
MH104 NOT USED
MH105 FIFTH FLOOR DUCTWORK PLAN

**STRUCTURAL** 

SB101 FOUNDATION PLAN & SECTIONS

SF501 FRAMING SECTIONS & DETAILS

SF101 SEVENTH FLOOR FRAMING PLAN & NOTES

MD106 SIXTH FLOOR DEMO PLAN
MD107 SEVENTH FLOOR DEMO PLAN

MH101 FIRST FLOOR DUCTWORK PLAN
MH102 SECOND FLOOR DUCTWORK PLAN
MH103 NOT USED
MH104 NOT USED
MH105 FIFTH FLOOR DUCTWORK PLAN
MH106 SIXTH FLOOR DUCTWORK PLAN
MH107 SEVENTH FLOOR DUCTWORK PLAN
MH108 ROOF PLAN

MH108 SIXTH FLOOR DUCTWORK PLAN

MH108 SIXTH FLOOR DUCTWORK PLAN ADD ALT. #4

MP105 FIFTH FLOOR PIPING PLAN
MP106 SIXTH FLOOR PIPING PLAN
MP107 SEVENTH FLOOR PIPING PLAN
MP126 SIXTH FLOOR PIPING PLAN ADD ALT. #4
MH301 SECTIONS
MP401 PIPING PART PLANS

MP401 PIPING PART PLAN
M-501 DETAILS
M-601 SCHEDULES
M-602 SCHEDULES
MP651 MECHANICAL PIPIN

MP651 MECHANICAL PIPING SCHEMATICS

PL100 BASEMENT PLUMBING PLAN
PL105 FIFTH FLOOR PLUMBING PLAN
PL106 SIXTH FLOOR PLUMBING PLAN
PL107 SEVENTH FLOOR PLUMBING PLAN

PL401 DOMESTIC WATER & SANITARY /
VENT PART PLANS

PL601 SCHEDULES & DETAILS

ELECTRICAL

E-001 LEGEND & GENERAL NOTES

ED101 FIRST FLOOR LIGHTING DEMOLITION PLAN NOT USED THIRD FLOOR LIGHTING DEMOLITION PLAN ED105 FIFTH FLOOR LIGHTING DEMOLITION PLAN ED106 SIXTH FLOOR LIGHTING DEMOLITION PLAN ED107 SEVENTH FLOOR LIGHTING DEMOLITION PLAN ED111 FIRST FLOOR POWER DEMOLITION PLAN

ED111 FIRST FLOOR POWER DEMOLITION PLAN
ED112 NOT USED
ED113 NOT USED
ED114 NOT USED
ED115 FIFTH FLOOR POWER DEMOLITION PLAN
ED116 SIXTH FLOOR POWER DEMOLITION PLAN
ED117 SEVENTH FLOOR POWER DEMOLITION PLAN
ED121 FIRST FLOOR SYSTEMS DEMOLITION PLAN

ED121 FIRST FLOOR SYSTEMS DEMOLITION PLAN
ED122 NOT USED
ED123 NOT USED
ED124 NOT USED
ED125 NOT USED
ED126 SIXTH FLOOR SYSTEMS DEMOLITION PLAN
ED127 SEVENTH FLOOR SYSTEMS DEMOLITION PLAN

EL101 BASEMENT & FIRST FLOOR LIGHTING PLANS
EL102 SECOND FLOOR LIGHTING PLANS
EL103 THIRD FLOOR LIGHTING PLANS
EL104 FOURTH FLOOR LIGHTING PLANS
EL105 FIFTH FLOOR LIGHTING PLANS
EL106 SIXTH FLOOR LIGHTING PLANS
EL107 SEVENTH FLOOR LIGHTING PLANS

EP100 BASEMENT POWER PLAN
EP101 FIRST FLOOR POWER PLAN
EP102 SECOND FLOOR POWER PLAN
EP103 THIRD FLOOR POWER PLAN
EP104 FOURTH FLOOR POWER PLAN
EP105 FIFTH FLOOR POWER PLAN
EP106 SIXTH FLOOR POWER PLAN
EP107 SEVENTH FLOOR POWER PLAN

LIGHTING SCHEDULE

EP108 ROOF POWER PLAN

EP601 POWER PANEL SCHEDULES
EP602 POWER PANEL SCHEDULES

EP651 ONE LINE DIAGRAMS

EL601

EY101 FIRST FLOOR SYSTEMS PLAN
EY102 SECOND FLOOR SYSTEMS PLAN
EY103 THIRD FLOOR SYSTEMS PLAN
EY104 FOURTH FLOOR SYSTEMS PLAN
EY105 FIFTH FLOOR SYSTEMS PLAN
EY106 SIXTH FLOOR SYSTEMS PLAN
EY107 SEVENTH FLOOR SYSTEMS PLAN

**BUILDING CODE COMPLIANCE:** 

USM: GLICKMAN LIBRARY
BUILD-OUT OF TOP THREE FLOORS PORTLAND, MAINE
SMRT Project No. 99092
LIFE SAFETY AND BUILDING CODE COMPLIANCE STRATEGY
REPORT

Codes and Standards Applicable to Scope of Professional Services Requested:

Life Safety Code:

A. NFPA, including: C 101 Life Safety Code, 2000.

Authority Having Jurisdiction:

Maine State Department of Public Safety,

Maine State Department of Public Safety,
Steven Dodge
Phone: 207-624-8744 Fax: 207-624-8767

Building Code:

A. The BOCA National Builiding Code, 1999

Authority Having Jurisdiction:
City of Portland Building Department,
Mike Nugent
Phone: 207-874-8704 Fax: 207-874-8716

Handicapped Accessibility Standard:

A. Americans with Disabilities Act Accessibility

Authority Having Jurisdiction:

Maine State Department of Public Safety,
Steven Dodge
Phone: 207-624-8744 Fax: 207-624-8767

Other References:

Basic Life Safety and Building Code Criteria:

Renovation and interior space fit—up of existing academic library to provide expanded and enhanced operations. The work of this contract will include interior fit—up of floors five through seven and incidental renovations on floors one through four. Types and sizes of rooms are as described in the Space Program Summary, and on floor plans A—001 through A—007.

Issues and analysis regarding conversion of use have been accomplished as part of the first phase of library construction. Construction documents for this phase were issued on January 15, 1992 by JSA, Portsmouth New Hampshire.

Occupant Classification(s):

NFPA 101: Existing Assembly

<u>Use Group Classification(s):</u>

The BOCA National Building Code:

Assembly — Subclassification: A—3

Specific Occupancy Areas and Special Hazard Protection Areas:

Description

Boiler/Furnace Rm.

Waste Rm.

Sprinklers + Smoke Partitions

Storage Rm. > 50 sf.

Sprinklers + Smoke Partitions

Special Use and Occupancy:

None Identified

Type of Construction:

Cast—in—place concrete foundation, below grade walls, columns, floor slabs and roof slab. Steel frame, metal deck, cementitious fireproofing and concrete topping at limited areas of floor infill. Brick masonry facing at first level exterior walls. Aluminum framed curtain wall at upper six floors.

NFPA: Type I(332)
The BOCA National Building Code: Type 1B

Existing construction is protected by automatic fire

Minimum Fire Resistance Ratings of Structure Elements:

(The BOCA National Building Code, Table 602 & NFPA 220,

Table 3-1) Loadbearing Exterior Walls 3 Hr. Min. Fire Walls Fire Separation Assemblies: Exit Enclosures 2 Hr. Shafts & Elev. Hoistways 2 Hr. Mixed Use Separations Other Separations Exit Access Corridors 0 Hr. (T.1011.4) Smoke Barriers Other Non-Load Bearing Partitions Loadbearing Interior Walls & Columns Supporting More Than One Floor Supporting One Floor or Roof Only 2 Hr. Structural Members Supporting Wall Floor construction including beams 2 Hr. Roof / Ceiling: 1.5 Hr.

uilding Height:

Allowable: (The BOCA Building Code, Table 503)
Not Limited
Actual:
7 Stories plus Basement, 90' +/-

Building Area:

Allowable: (The BOCA, Table 503)

Actual: 13,500 sf +/-Means of Egress:

Not Limited

Occupant Load:
Fifth Floor:
Café 14
Other 128
Subtotal 14

Subtotal

Subtotal 142 Occupants

Sixth Floor:
Subtotal 135 Occupants

Seventh Floor:
Study Rms. 14
Stacks & Other 85
Reading Rm. 50
Events Space 360

Minimum Number of Exits: Two, Including all rooms and areas with over 50 occupants.

509 Occupants

Capacity:
Exit Access: Allowable Minimum Width
Doors: Allowable Minimum Width
36 in.

Arrangement:
Max. Allowable Dead—End Corridor: 20 ft.
Max. Allowable Travel Distance: 200 ft.
Max. Allowable Common Path of Travel 75 ft.

Max. Allowable Common Path of Travel 75 ft.

Illumination of Means of Egress:

Egress will be illuminated by light fixtures fed from the existing emergency power system.

Protection From Hazards:

The existing, water based automatic fire protection system will be reconfigured as necessary to accommodate new partition layouts and areas with compact shelving. Either a dry—pipe pre—action or clean agent fire protection system will be used within the boundaries of the special collections suite.

Special hazard protection areas will be fire or smoke separated as identified above.

separated as identified above.

Protection of Vertical Openings

Vertical openings will be protected to maintain the integrity of fire area separations. Reference Minimum Fire Resistance Ratings of Structural Elements above.

Interior Finish:

Wall and Ceiling Finishes:

Use Group A Exits Corridors Rooms

Flame Spread\*: 0-25 0-25 typ. 0-75 events
0-75 lobbies 0-200 typ.

Smoke

Development\*\* 0-450 0-450 0-450

Critical Radiant Flux\* No Requirements
ASTM E648\*\* Class II (0.22 watts/cm2)
\*NFPA 253
\*\*BOCA

Detection, Alarm and Communication Systems:

The existing Simplex fire alarm system will be adapted as required for new partition layouts. Voice/strobe notification devices, required for high rise, will be added

as required in areas with new layouts.

Operating Features:

Food serving areas will be equipped only with microwave ovens. No other heat producing equipment is anticipated in these areas.

Shall be flame resistant and complying with NFPA 701.

ARCHITECTURE ENGINEERING PLANNING

SMRT

144 Fore Street/P.O. Box 618

ISSUED FOR CONSTRUCTION

DESCRIPTION

CURRENT ISSUE STATUS:

ISSUED FOR CONSTRUCTION

3-17-03

GLICKMAN LIBRARY
UNIVERSITY OF SOUTHERN MAINE

PORTLAND, MAINE

COVER

SHEET TITLE:

SCALE: AS NOTED DATE: 3-17-03

PROJECT MANAGER: SLB

JOB CAP/DRAWN: CTB

A/E OF RECORD: JLH

SMRT CAD FILE: GI001-99092

PROJECT No. 99092