1. GENERAL REQUIREMENTS: Amended 1-18-22 See Pages 1 and 28-31

1.1. A/E Requirements: When required by the University the Architect/Engineer (A/E) assigned by contract to a given project shall utilize the attachments as identified in previous Chapters.

2. ATTACHMENTS:

- **2.1.** Forms: The following forms are modeled after the attachments in the DGS Procedure Manual, July, 2003 Edition.
 - **a.** Summary Areas, Volume & Efficiency Form
 - **b.** Tabulation of Gross Area Form
 - **c.** Summary Net Assignable Areas Form
 - **d.** University Standard Construction Document Change Form
 - e. Engineer's and Developer's Certification Form
 - **f.** Building Code Study Data Forms
 - g. Project Description Forms
 - **h.** Directions for Completing the Project Description Forms
 - **i.** See pages 2 through 14 for the samples of the forms and related instructions.

2.2. University Standard Cover Sheets and Drawing List:

- **a. Cover Sheet Bound Documents:** The University Standard Cover Sheet shall be used on all projects for all bound specifications, reports, studies etc. prepared by the A/E and submitted to UMB. See page 17 for a sample of the cover sheet.
- **b. Cover Sheet Drawings:** The University Standard Cover Sheet shall be used on all projects for all bound drawing sets prepared by the A/E and submitted to UMB. See pages 15 &16 a sample of the drawing template and cover sheet.
- c. Standard Sheet Title and Drawing Number List: The University Standard Sheet Title and Drawing Number List shall be used on all projects for all bound drawing sets prepared by the A/E and submitted to UMB. See pages 18 to 27 for a sample of the sheet numbers and sheet titles.
- 2.3. Availability: Up to date forms, cover sheets and drawing list are available electronically on the UMB <u>D & C</u> Web Site @ <u>https://www.umaryland.edu/designandconstruction/design-and-construction-documents/</u> <u>Choose the appropriate "View UMB..... Current Edition" for the desired file.</u>
- 2.4. <u>Bookmarks:</u> See pages 28 31 for bookmark requirements for PDF File Submissions from consultants.

CHAPTER FIVE – ATTACHMENTS

SUMMARY - AREAS, VOLUME & EFFICIENCY

PROJECT: _____

UNIVERSITY PROJECT NO:

FACILITY: _____

DATE: _____

ARCHITECT/ENGINEER:

	AREA SQ. FT.					
ITEM	PROGRA M	SD	DD	50%	95%	100%
GROSS AREA (Notes 1 & 2)						
NET ASSIGNABLE AREA (Notes 1 & 2) (Sh. 3 to incl.)						
GROSS FACTOR (Note 1)						
EFFICIENCY FACTOR (Note 3) % EFFICIENCY (Note 4)						
SUBMISSION DATE (Note 5)						

NOTES:

1. Gross Areas, Net Assignable Areas and Volumes shall be calculated in strict accordance with the University Procedure Manual.

2. Attach additional sheets as follows: Sheet 2 - Tabulation of Gross Areas; Sheet 3 and subsequent sheets - Tabulation of Net Assignable Areas (Room by Room).

- 3. To obtain Efficiency Factor: Divide Gross Area by Net Assignable Area (e.g. 49,209 SF Gross Area divided by 33,705 SF Net Assignable Area = 1.46).
- 4. To obtain % Efficiency: Divide Net Assignable Area by Gross Area and multiply by 100 (e.g. 33,705 SF Net Assignable Area divided by 49,209 SF Gross Area multiplied by 100 = 68.5% Efficiency)
- 5. Submit in triplicate to the University Project Manager with each phase submission of the review documents. Figures shall be shown for all previous phases as well as the current phase submitted.

CHAPTER FIVE – ATTACHMENTS

TABULATION OF GROSS AREA

PROJECT: ______ UNIVERSITY PROJECT NO: _____

FACILITY: _____ DATE: _____

ARCHITECT/ENGINEER:

DESCRIPTION	GROSS AREA (SF)						
DESCRIPTION	PROGRA M	SCHEMATI C	DD	50%	95%	100 %	
Utility Tunnels (Within 10 feet)							
Crawl Space (6 feet or more							
high)							
Sub-Basement							
Basement							
Ground Floor							
Mezzanine							
Balcony							
Fixed Bleachers (w/rooms							
below)							
1st Floor							
2nd Floor							
3rd Floor							
4th Floor							
Other							
Other							
Mezzanine (Boiler or Equip.							
Room)							
Penthouses (Stairs, Elev., Mech.)							
Areaways (1/2)							
Canopies (1/2)							
Roof or Floor							
Overhangs (1/2)							
Open piazza under bldg. (1/2)							
Covered Balcony (1/2)							
Loading Dock (1/2)							
TOTALS							

TABULATION OF NET ASSIGNABLE AREAS

PROJECT: _____

PROJECT NO: _____

FACILITY: _____

DATE: _____

ARCHITECT/ENGINEER:

Room No.	DESCRIPTION	NET ASSIGNABLE AREAS (SF)					
		PROGRM	SD	DD	50%	95%	100%
Total (This S	heet)						
GRAND TO	TAL (Sheet 3 to)						

UNIVERSITY of MARYLAND, BALTIMORE CONSTRUCTION DOCUMENT CHANGE (CDC)

Construction Document Change	CDC #:
Project Title:	UMB Project #:
Prepared By:	Date Prepared:

PROPOSED CHANGES TO THE CONTRACT DOCUMENTS:

Provide all labor, materials, equipment, and services necessary to accomplish the following changes to the contract documents. If it is concluded that incorporation of the changes included herein will result in a change to the contract amount and/or schedule, please submit an itemized change order proposal indicating all changes to the contract amount and/or contract schedule. This is not a contract change order or contract amendment. This is not a direction to proceed with work described herein, unless it is agreed that there is no change to the contract amount and schedule. Include all changes authorized to be performed in the set of Record Documents.

UMB Project Manager:

Date:

The modifications to the contract documents as a result of this Construction Document Change include the following:

ENGINEER'S AND DEVELOPER'S CERTIFICATION

ENGINEER'S CERTIFICATION

I (We), ______, do hereby certify that the sediment control provisions shown on this plan are designed in accordance with the guidelines, standards and specifications for soil erosion and sediment control issued by the Maryland Department of the Environment, latest edition.

Signature	Title	Date	
Printed Name	MD Regist	ration No.	

MD Registration No. P.E., R.L.S. or R.L.A. (Circle)

UNIVERSITY/DEVELOPER'S CERTIFICATION

I/We hereby certify that:

- A. All development and construction will be done in accordance with this sediment and erosion control plan and further authorize the right of entry for periodic on-site evaluation by the State of Maryland Department of the Environment enforcement inspectors.
- B. Any responsible personnel involved in the construction project will have a certificate of attendance at a Department of the Environment approved training program for the control of sediment and erosion before beginning the project.

Signature

Date

Printed Name and Title

Card No.

BUILDING CODE STUDY DATA

DESIG	GN PHASE:	SDDDCD DA	ATE:		
1)	PROJECT: _	PROJEC	T NO		
	FACILITY: _				
2)	APPLICABL	E CODES:			
	 B) Fire C C) Interr D) Nation E) Nation F) ASHF G) Elevan 	national Mechanical Code: nal Standard Plumbing Code: nal Electric Code: RAE: tor and Escalator Safety Code:	NSPC – 20 NEC – 200 Latest ASME A17.	006 06 03 95 1.2000 (wit	
3)	Use Group (S Special Use an Incidental Us Proposed Typ Building Heig Additional Ci Building	JSE, CONSTRUCTION CLASS dection 302)(Chapter of e Areas(Table 508.2) be of Construction(Table 503) ght Allowance(Table 503) redit for Fully Sprinklered (Section 504.2) ng Height sories(Table 503)	<u>IB</u> (4):): 3):):	NS AND H	EIGHT
4)	First Floor Second Floor Third Floor Mechanical P Total (GSF) MAXIMUM Per IBC Tabl	ACTUAL CROSS AREAS: : :			
5)	OCCUPANC USE:	Y LOADS: IBC (Table 1004.4.1):	Lif	e Safety (T	able 7.3.1.2):

6) EGRESS WIDTH:

	IBC (Table 1004.4.1):	Life Safety (Table 7.3.1.2):
Egress Width at Stairs:		
Egress Width at Doors:		
Egress Width at Corridors:		

7) OCCUPANCY LOADS AND EGRESS REQUIREMENTS:

Location (Spaces)	:
Area in Sq. Feet	:
Maximum Floor Area	:
Allowance per Occupant	(1004.1.1):
Egress Width Required	(1005.1) :
Egress Width Provided	(In Inches):
Number Exits Required	(1019.1) :
Number Exits Provided	:

8) FIRE PROTECTION SYSTEM REQUIREMENTS:

		IBC (A			IBC 2006 Reference	
	Automatic Sprinkler	(Sec 903):				
	Fire Extinguishers	(Sec 903):				
	Standpipe System	(Sec 903):		_		
	Portable Fire Extinguishers	(Sec 903):		-		
	Fire Alarm System	(Sec 903):				
	Emergency Alarm System	(Sec 903):		-		
	Smoke Control System	(Sec 903):		-		
	Smoke and Heat Vents			-		
	Fire Command Center	(Sec 903):		-		
	Fire Dept. Connection			-		
9)	IBC – 2006 (1016.3) :					
10)	INTERIOR FINISH REQU		:			
		Class 1				
	IBC – 2006 (Table – 803.5):				· · · · · · · · · · · · · · · · · · ·	<u> </u>
	NFPA – 2006 (Chapter 10):					
11)	MAXIMUM TRAVEL DIST					
	IBC 2006 (Ta	able – 1015.1)	N	FPA - 2006	
	Allowable:		-	_	·····	

Location	Width	IBC Reference	e (101'	7.2)	NFPA	A-Reference
PANIC HAI	RDWARE:					
Location	Required	IBC Reference	e (1008	8.1.9)	NFPA	A-Reference
STAIR DAT	[A: <u>(</u> Section 100	9)				
Stair Width Capacity: Rated Enclo					-	
BUILDING	FIRE RATING	S:		IBC (601-6	2006 502)	NFPA - 2006 (Chapter 8)
	RAL FRAME olumns, Girders	s, Trusses	:			
EXTERIOR	R BEARING WA	LL	:			
EXTERIOR	R NON-BEARIN	G WALL :				
INTERIOR	BEARING WA	LL	:			
	INSTRUCTION		:			
	STRUCTION	nd Joist	:			
	LS – USE GRO Dpening Rating (UP : Section 705 & 71	5)			
	LEXIT ENCLOS Opening Rating (:			
	ND ELEVATOR Opening Rating (R HOIST WAYS: Section 707.4)				
	ESS CORRIDO Dpening Rating (
SMOKE BA Protective C	ARRIER Opening Rating (Section 709)	:			

PROJECT DESCRIPTION SHEET

DESIGN PHASE DD 95% CD 100% CD DATE:	
PROJECT: PROJECT NUMBER:	
FACILITY:	
ARCHITECT:	
ENGINEERS:	
A. DESCRIPTION:	
B. OCCUPANCT:	

С.	Gross Area (SF)	Net Assignable Area (SF)	Perimeter Walls (SF)
Basement			
Floor 1			
Mezzanine			
Floor 2			
Floor 3			
Penthouse			
Covered Atrium			
Totals			

D. TOTAL VOLUME: ______ cubic feet

E. EFFICENCY:

Assignable Area = $_$ x 100 = $_$ % E Eff. Gross Area

Gross Area = ____ Efficiency Factor. Assignable Area

- F. REMARKS:_____
- G. HANDICAPPED:

H. HASBESTOS REMOVAL REQUIRED: _____

PROJECT DESCRIPTION SHEET

CONSTRUCTION			
1. Foundation			
2. Structural			
3. Exterior Walls			
4. Partitions			
5. Floors			
6. Floors Finish			
7. Ceilings			
8. Roof			
9. Roof Finish			
10. Wall Finish			
11. Doors & Frames			
12. Windows			
13. Toilet Room Partitions			
14. Plumbing	Total #	of FixturesWC	SH DF
	LAV	$_SS\UR\O$	DTHER
15. Sewers	Sanitary:	Storm:	Septic:
16. Water Supply			
17. Fire Protection			
18. Heating			
19. Heating Plant			
20. Ventilation			
21. Air Conditioning	Tons:	%	
22. Electric			
23. Special Electric			
24. Site Electric			
25. Elevators			
26. Parking Lots			
27. Roads	Curbs:		
28. Walks & Steps			
29. Built-in Equipment			
30. Site Specialties			

SKETCH

DIRECTIONS FOR COMPLETING PROJECT DESCRIPTION SHEET

The project Architect/Engineer shall complete a separate Project Description Sheet (Attachment #6) for each building of a project and submit the original with 2 copies to the Department of General Services:

- (1) to accompany the design development plans,
- (2) to accompany the final plans (prior to bid, after all revisions.) And
- (3) at such other times as requested.

Keep description brief, use abbreviations.

GENERAL

- A. Give brief description of structure. When project has more than one building, give building title here.
- B. State occupancy:

Garage or Parking
Housing number of rental units;
Library
(including carrels);
Dining Hall number of seats;
Kitchen meal capacity;
University Academic Buildings number students each building,
number of classrooms, number of faculty offices;
Public Schools number of pupils, number of faculty offices,
number of classrooms;
Office of Administration Buildingnumber of personnel; etc; Court Houses number of courtrooms, number of seats;

- C. Give gross area in square feet, assignable area in square feet and length of perimeter walls in linear feet for each floor or level. Gross and Assignable Areas shall be figured on the basis of Assignable Area and Supporting (unassignable) Areas as defined in appendix D of this manual.
- D. State gross volume of structure in cubic feet. Use height from underside of lowest floor construction system to average top of finished roof surface for each portion of areas above. For slabs on grade, use height from bottom of gravel.
- E. Figure efficiency both ways as indicated: as a percent and as a factor (e.g. 60% and 1.67).
- F. For additional information or continuation of other items.
- G. State whether facilities for the handicapped are included.
- H. State whether asbestos abatement is required.

I. Draw a one-line plan view to a small scale; give basic dimensions and indicate number of stories of each portion of facility.

CONSTRUCTION

- 1. State types spread footings, caissons, piles (timber, pipe, h, precast concrete, cast-in place, pressure injected, etc.), grade beams, etc. If footings are on engineered fill, so state.
- 2. State types structural steel, reinforced concrete, precast units, wall bearing or structural frame, timber, post-tensioned, etc.
- 3. State type and materials curtain or bearing, solid or cavity, brick, brick and block, precast, metal, wood frame, with or without insulation, etc.
- 4. State type and materials fixed or movable, bearing or non-bearing, brick, block, tile, metal, precast, gypsum, metal or wood stud and sheet-and-rock, concrete, etc.
- 5. State type and materials precast or poured-in-place concrete, steel deck or form with concrete fill, steel or wood joist, flat slab, etc.
- 6. State finish materials resilient flooring, concrete, carpeting, terrazzo, etc. (State total square yard area of carpeting and terrazzo). (Do not include toilet rooms in this item.)
- 7. State finish materials. (Do not include toilet rooms in this item.)
- 8. State construction flat or pitched, wood, concrete or steel framing, metal deck, concrete slab, precast, gypsum plank, etc.
- 9. State materials built-up, slate, asphalt shingles, galvanized, copper, etc.
- 10. State finish materials paint, epoxy coatings, ceramic tile, glazed block, wainscots, plaster, etc. (Do not include toilet rooms in this item.)
- 11. State type and material hollow metal or wood, solid core wood, glass aluminum and glass, overhead, roll-up, revolving, etc. (Include type of frames hollow metal, steel, wood, etc.)
- 12. State type and material fixed double hung, projected, casement, sliding, awning, pivoted, window wall, aluminum, wood, steel, stainless steel, bronze, etc.
- 13. State types and materials of construction and finishes for floor, walls, ceiling, including wainscots, type of toilet partitions, etc.
- 14. State number of each type plumbing fixture; give total number. Add types not listed in places provided. Give size and type of domestic water heater. Use the following abbreviations:

WC - toilet	SS - service sink	Lav - lavatory
UK - unit kitchen	U - urinal LS -	Lab sink
SH - shower head	KS - kitchen sink	SC - shower compartment
PS - pot sink	BT - bathtub	DS - dish sink
LT - laundry tub	FD - food waste dispose	al SB - special bath
BP - bed pan sterilizer	HB - hose bibb	DF - drinking fountain

WH - water heater WTC - water cooler

- 15. State type of material, size and length (over 10 feet from building) for each type and size of sewer. State the type and capacity (gallons) of septic system.
- 16. State type of materials, size and length (over 10 feet from building) of water lines. If from wells, state number and capacity. Include hot and cold water lines from a central facility.
- 17. State types and locations sprinklers, standpipes, smoke or heat detectors, fire alarm system, extinguishers, hydrants, Fire Department connections, etc.
- 18. State types of systems including types of temperature control systems.
- 19. State whether plant is individual (state fuel) or central. State size and length (over 10 feet from building) of each outside line (steam, hot water, cold water, etc.) from a central plant.
- 20. Brief description. State cubic feet per minute quantities of total outside air and total exhaust air.
- 21. State types of systems, air conditioning tonnage, percentage of building that is air conditioned.
- 22. State service, distribution and utilization voltages, phase, amperage, overhead or underground service (give length over 10 feet from building), wiring method of building such as type, concealed or exposed, etc.
- 23. State electrical specialties such as audio-visual, stage lighting, lightning protection, intrusion protection, communication systems, emergency systems (e.g. battery units or generator), time system, power for computers, etc.
- 24. State items of site electric, such as exterior lighting, sub-station, etc.
- 25. State type and number of elevators, dumbwaiters, moving stairs, etc.
- 26. State type of construction, area in square yards and number of vehicles.
- 27. State type of construction and area in square yards. Give type of curbs and length in feet.
- 28. State type of construction and area in square yards.
- 29. State what built-in-equipment is included in project such as kitchen, snack bar, exhaust hood, special refrigeration, cabinet work, laboratory equipment, library stacks, wardrobes, special exhaust or waste systems, chalk and tack boards, draperies, pedestal floor (give area), etc.

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				State of Maryland Board of Public Works	Larry Hogan Governor Peter Franchot Comptroller Nancy K. Kopp State Treasurer Maryland General Assembly	ate President Ise Speaker	Consultants	AICHIET INER LIGHTING BIOREEUS IN-DICEMENS CONSULANT CONTRACTION CONTRACTION AND CONTRACTION CONTRUMENT CONTRACTION CONTRACTION CONTRACTIO	OVIL ENGINEER Compary Advises 1 Compary Advises 2 Compary Advises 2 Ors, State 220 Cook Compary Phone Number	SCURITY CORPANIANA TELECOM & MULTIPARIAN SECAULTY CONJULTATI Company Advise Company Market Company Advise Company Advise 1 Company Advise 1 Company Market Company Theore Name Company Theore Company Theore Name Company Theore Company Theore Name	Submission
UNIVERSITY & MARYLAND BALTIMORE	ABMONESTBATTION & FIXANCE INSIGN AND CONVERSOFTION OFFICE OF FACILITIES MANAGEMENT 680 N. LADINGTON STREET, OT E FILOOR PLATINGTON STREET, OT E FILOOR FILOR NO. (410) 706-7740 7XX NO. (410) 706-784	PROJECT TITLE BUILDING NAME BUILDING STREET ADDRESS BALTIMORE, MARYLAND 21201	UM Project No.: 00-000 A/E Project No.: 00-000 CM Project No.: 00-000		List of Drawings	resolución de la constantica d	Distribution Distribution Distribution Operationalism Distributionalism Distributionalism Operationalism Distributionalism Distributionalism	Control Control <t< th=""><th></th><th>Mathematical Mathematical Mathematical<</th><th>A DESCRIPTION OF A DESC</th></t<>		Mathematical Mathematical<	A DESCRIPTION OF A DESC
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UMB Procedure Manual for Professional A/E Services

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UMB PROJECT NO. : XX-XXX PROJECT TITLE :		BUILDING NO. : XXXX	UMB SKETCH :	00		
PROJ	PROJECT TITLE			SHEET REFERENCE NO. :		
UNIVERSITY of MA BALTIMORE	ryland		00	00		
ADMINISTRATION & FINANCE DESIGN AND CONSTRUCTION			CAD FILE NUMBER: 8.5x11 UME	3 Cover Sheet Templates		
OFFICE OF FACILITIES MANAGEMEN 630 W. LEXINGTON FITHERT, 6TH I BALTINGER, MARYLAND 21201	rr 7.008		DATE : xx/xx/xx SCALE : AS NOTED	SHEET NO. :		

UNIVERSITY of MARYLAND BALTIMORE

ADMINISTRATION & FINANCE

DESIGN AND CONSTRUCTION

SPECIFICATIONS FOR THE CONSTRUCTION OF *NEW ADMINISTRATION BUILDING* AT THE UNIVERSITY OF MARYLAND

UNIVERSITY PROJECT # 06-418 BUILDING INVENTORY No. 8100

BID PACKAGE 3a-Superstructure

VOLUME 1 OF 2: PROJECT SPECFICATIONS

March 16, 2007

Owner

University of Maryland, Baltimore Design and Construction 620 W. Lexington Street, 6th Floor Baltimore, Maryland 21201

Board of Public Works

Lawrence J. Hogan Jr., Governor Peter Franchot, Comptroller Nancy K. Kopp, Treasurer

Maryland General Assembly

Thomas V. Miller Jr, Senate President Michael Erin Busch, House Speaker

Architect

Design Collective, Inc. 100 East Pratt Street, 14th Floor Baltimore, MD 21202

Structural Engineer RESTL Designers, Inc. 13 Firstfield Road, Suite 200 Gaithersburg, MD 208781

MEP Engineer BKM & Associates 1423 Clarkview Rd., Suite 500 Baltimore, MD 21209

Civil/Site Engineer

Site Resources, Inc. 14307 Jarrettsville Pike Phoenix, Maryland 21131

Information Technology

Convergent Technologies 426 Evesham Avenue Baltimore, MD 21212

Construction Manager

Barton Malow Company 971 Corporate Boulevard Suite 400 Linthicum, MD 21090 used for all bound documents submitt

A/E – Edit Italic Text for project. Cover sheet shall be used for all bound documents submitted to UMB.

A/E Note - Edit each discipline drawing number and sheet title for the project requirements. When additional drawing numbers and sheet titles are required modify each discipline accordingly conforming to the drawing numbering system below.

Example: Adding a 7th & 8th Floor use A107 & A108 for the Floor Plans and the Roof Plan becomes A109, etc. For Renovation Projects the floor plan sheet numbers for each discipline start with 100. Example: AD100, A100, MD100 (Ductwork), M100 (Ductwork), MD200 (HVAC Piping), M200 (HVAC Piping), ED100 (Power), E100 (Power), ED200 (Lighting), E200 (Lighting) etc.

UMB STANDARD SHEET NUMBERS AND SHEET TITLES GENERAL

G000 UMB STANDARD COVER SHEET

CIVIL

CD100 CIVIL DEMOLITION

- C100 SITE PLAN
- C200 STREETSCAPE PLAN
- C201 STREETSCAPE DETAILS
- C202 PUBLIC CURB/SIDEWALK REPLACEMENT PLAN
- C203 PUBLIC CURB/SIDEWALK REPLACEMENT PLAN
- C300 PUBLIC WATER PLAN AND PROFILES
- C301 PUBLIC STORM DRAIN PLAN AND PROFILES
- C302 SANITARY PLAN AND PROFILES
- C303 ELECTRICAL DUCTBANK PROFILES
- C400 STORMWATER MANAGEMENT DRAINAGE STUDY AREA
- C401 STORMWATER MANAGEMENT DETAILS

LANDSCAPE

LD100 LANDSCAPE DEMOLITION

- L001 LANDSCAPE AND IRRIGATION NOTES AND SYMBOLS
- L100 LANDSCAPE AND IRRIGATION SITE PLAN
- L200 LANDSCAPE AND IRRIGATION GRADING PLAN
- L300 LANDSCAPE AND IRRIGATION PLANT PLAN
- L400 LANDSCAPE AND IRRIGATION DETAILS

STRUCTURAL

- S001 GENERAL NOTES, CODE & ENGINEERING DATA
- S002 GENERAL NOTES
- SD100 BASEMENT FLOOR DEMOLITION PLAN
- SD101 FIRST FLOOR DEMOLITION PLAN
- SD102 SECOND FLOOR DEMOLITION PLAN
- SD103 THIRD FLOOR DEMOLITION PLAN
- SD104 FOURTH FLOOR DEMOLITION PLAN
- SD105 FIFTH FLOOR DEMOLITION PLAN
- SD106 SIXTH FLOOR DEMOLITION PLAN
- SD107 ROOF DEMOLITION PLAN
- S100 FOUNDATION AND BASEMENT FLOOR FRAMING PLAN
- S101 FIRST FLOOR FRAMING PLAN
- S102 SECOND FLOOR FRAMING PLAN
- S103 THIRD FLOOR FRAMING PLAN
- S104 FOURTH FLOOR FRAMING PLAN
- S105 FIFTH FLOOR AND LOW ROOF FRAMING PLAN
- S106 SIXTH FLOOR FRAMING PLAN
- S107 ROOF AND MACHINE ROOM FRAMING PLAN
- S108 ROOF FRAMING PLAN
- S200 FOUNDATION WALL ELEVATIONS AND SECTIONS
- S300 TYPICAL DETAILS
- S301 TYPICAL DETAILS
- S302 TYPICAL DETAILS
- S400 SECTIONS AND DETAILS
- S401 SECTIONS AND DETAILS
- S402 SECTIONS AND DETAILS
- S403 SECTIONS AND DETAILS

S500 COLUMN SCHEDULE

ARCHITECTURAL

- A001 GENERAL NOTES SYMBOLS AND ABBREVIATIONS
- A002 CODE ANALYSIS, FEDERAL ACCESSIBILITY STANDARDS, AND BUILDING CONSTRUCTION STANDARDS
- A003 LIFE SAFETY BASEMENT AND FIRST FLOOR PLANS
- A004 LIFE SAFETY SECOND AND THIRD FLOOR PLANS
- A005 LIFE SAFETY FOURTH AND FIFTH FLOOR PLANS
- A006 LIFE SAFETY SIXTH FLOOR AND ROOF PLANS

ASD100 ARCHITECTURAL DEMOLITION SITE PLAN AS100 ARCHITECTURAL SITE PLAN

AD100 BASEMENT FLOOR DEMOLITION 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 ROOF DEMOLITION PLAN A100 BASEMENT FLOOR PLAN A101 FIRST FLOOR PLAN A102 SECOND FLOOR PLAN A103 THIRD FLOOR PLAN A104 FOURTH FLOOR PLAN A105 FIFTH FLOOR PLAN A106 SIXTH FLOOR PLAN A107 PENTHOUSE FLOOR PLAN A108 ROOF PLAN A120 BASEMENT FLOOR REFLECTED CEILING PLAN A121 FIRST FLOOR REFLECTED CEILING PLAN A122 SECOND FLOOR REFLECTED CEILING PLAN A123 THIRD FLOOR REFLECTED CEILING PLAN A124 FOURTH FLOOR REFLECTED CEILING PLAN FIFTH FLOOR REFLECTED CEILING PLAN A125 A126 SIXTH FLOOR REFLECTED CEILING PLANS A127 PENTHOUSE REFLECTIVE CEILING PLAN A130 BASEMENT FLOOR FINISH PLAN AND KEY PLAN A131 FIRST FLOOR FINISH PLAN AND KEY PLAN A132 SECOND FLOOR FINISH PLAN AND KEY PLAN A133 THIRD FLOOR FINISH PLAN AND KEY PLAN A134 FOURTH FLOOR FINISH PLAN AND KEY PLAN FIFTH FLOOR FINISH PLAN AND KEY PLAN A135 A140 BASEMENT FLOOR SIGNAGE PLAN A141 FIRST FLOOR SIGNAGE PLAN A142 SECOND FLOOR SIGNAGE PLAN A143 THIRD FLOOR SIGNAGE PLAN A144 FOURTH FLOOR SIGNAGE PLAN A145 FIFTH FLOOR SIGNAGE PLAN A146 SIXTH FLOOR AND ROOF SIGNAGE PLANS A200 **EXTERIOR ELEVATIONS** A201 **ELEVATIONS** A202 **ELEVATIONS**

- A210 EXTERIOR ENLARGED ELEVATIONS
- A211 EXTERIOR ENLARGED ELEVATIONS
- A220 INTERIOR ELEVATIONS
- A221 INTERIOR ELEVATIONS
- A300 BUILDING SECTIONS EAST WEST
- A301 BUILDING SECTIONS NORTH SOUTH
- A310 EXTERIOR WALL SECTIONS
- A311 EXTERIOR WALL SECTIONS
- A312 EXTERIOR WALL SECTIONS
- A320 INTERIOR WALL SECTIONS
- A400 STAIR #1 FLOOR PLANS AND SECTION
- A401 STAIRS #2, 3 AND 4 FLOOR PLANS AND SECTIONS
- A410 STAIR DETAILS
- A420 ELEVATOR FLOOR PLANS AND SECTION
- A430 ENLARGED LOBBY AND TOILET ROOM FINISH PLANS
- A440 ENLARGED FLOOR PLANS AND INTERIOR ELEVATIONS
- A500 PLAN DETAILS
- A501 PLAN DETAILS
- A510 REFLECTED CEILING PLAN DETAILS
- A520 SECTION DETAILS
- A521 SECTION DETAILS
- A530 PARTITION TYPES AND DETAILS
- A540 DOOR DETAILS
- A550 WINDOW DETAILS
- A560 STOREFRONT AND LOUVER DETAILS
- A600 USER DEFINED
- A700 DOOR SCHEDULES
- A710 WINDOW SCHEDULES
- A720 STOREFRONT AND LOUVER SCHEDULES
- A800 USER DEFINED

MECHANICAL

 M001 MECHANICAL LEGEND ABBREVIATIONS, MECHANICAL ENGINEERING DATA AND GENERAL NOTES
 MSD100MECHANICAL DEMOLITION SITE PLAN
 MS100 MECHANICALL SITE PLAN

MD100 BASEMENT FLOOR DEMOLITION PLAN – HVAC

MD101 FIRST FLOOR DEMOLITION PLAN – HVAC

MD102 SEOND FLOOR DEMOLITION PLAN – HVAC

MD103 THIRD FLOOR DEMOLITION PLAN – HVAC

MD104 FOURTH FLOOR DEMOLITION PLAN – HVAC

MD105 FIFTH FLOOR DEMOLITION PLAN – HVAC

MD106 SIXTH FLOOR DEMOLITION PLAN – HVAC

MD107 ROOF DEMOLITION PLAN – HVAC

- M100 BASEMENT FLOOR PLAN HVAC
- M101 FIRST FLOOR PLAN HVAC

M102 SECOND FLOOR PLAN - HVAC

M103 THIRD FLOOR PLAN - HVAC

M104 FOURTH FLOOR PLAN - HVAC

M105 FIFTH FLOOR PLAN - HVAC

M106 SIXTH FLOOR PLAN - HVAC

M107 PENTHOUSE FLOOR PLAN – HVAC

M108 ROOF PLAN – MECHANICAL

MD200 BASEMENT FLOOR DEMOLITION PLAN – HVAC PIPING
MD201 FIRST FLOOR DEMOLITION PLAN – HVAC PIPING
MD202 SEOND FLOOR DEMOLITION PLAN – HVAC PIPING
MD203 THIRD FLOOR DEMOLITION PLAN – HVAC PIPING
MD204 FOURTH FLOOR DEMOLITION PLAN – HVAC PIPING
MD205 FIFTH FLOOR DEMOLITION PLAN – HVAC PIPING
MD206 SIXTH FLOOR DEMOLITION PLAN – HVAC PIPING
MD207 ROOF DEMOLITION PLAN – HVAC PIPING

M200 BASEMENT FLOOR PLAN – HVAC PIPING

M201 FIRST FLOOR PLAN – HVAC PIPING

M202 SECOND FLOOR PLAN – HVAC PIPING

M203 THIRD FLOOR PLAN – HVAC PIPING

M204 FOURTH FLOOR PLAN – HVAC PIPING

M205 FIFTH FLOOR PLAN – HVAC PIPING

M206 SIXTH FLOOR PLAN – HVAC PIPING

M207 PENTHOUSE FLOOR PLAN – HVAC PIPING

M208 ROOF PLAN – HVAC PIPING

M300 MECHANICAL SECTIONS

M400 MECHANICAL ROOM PART PLANS

M410 AIR HANDLING UNIT PLANS & ELEVATIONS

- M500 MECHANICAL DETAILS
- M501 MECHANICAL DETAILS

M502 MECHANICAL DETAILS

- M600 MECHANICAL CONTROLS
- M610 COOLING SYSTEM SCHEMATIC DIAGRAM
- M620 HEATING SYSTEM SCHEMATIC DIAGRAM
- M630 ENERGY RECOVERY SCHEMATIC DIAGRAM
- M640 AIR DISTRIBUTION SCHEMATIC DIAGRAM
- M700 MECHANICAL SCHEDULES
- M701 MECHANICAL SCHEDULES
- M702 MECHANICAL SCHEDULES
- M703 MECHANICAL SCHEDULES
- M800 USER DEFINED

PLUMBING

- P001 PLUMBING LEGEND & GENERAL NOTES
- PD100 BASEMENT FLOOR DEMOLITION PLAN PLUMBING
- PD101 FIRST FLOOR DEMOLITION PLAN PLUMBING
- PD102 SEOND FLOOR DEMOLITION PLAN PLUMBING
- PD103 THIRD FLOOR DEMOLITION PLAN PLUMBING
- PD104 FOURTH FLOOR DEMOLITION PLAN PLUMBING
- PD105 FIFTH FLOOR DEMOLITION PLAN PLUMBING
- PD106 SIXTH FLOOR DEMOLITION PLAN PLUMBING
- PD107 ROOF DEMOLITION PLAN PLUMBING
- P100 BASEMENT FLOOR PLAN PLUMBING
- P101 FIRST FLOOR PLAN PLUMBING
- P102 SECOND FLOOR PLAN PLUMBING
- P103 THIRD FLOOR PLAN PLUMBING
- P104 FOURTH FLOOR PLAN PLUMBING
- P105 FIFTH FLOOR PLAN PLUMBING
- P106 SIXTH FLOOR PLAN PLUMBING
- P107 PENTHOUSE FLOOR PLAN PLUMBING
- P108 ROOF PLAN PLUMBING
- P400 PART PLANS PLUMBING
- P500 PLUMBING DETAILS
- P600 DOMESTIC WATER RISER DIAGRAMS

- P610 SANITARY RISER DIAGRAMS
- P620 STORM WATER RISER DIAGRAM
- P630 LABORATORY COMPRESSER AIR AND VACUUM SYSTEM DIAGRAMS
- P640 RO / DI WATER SYSTEM DIAGRAMS
- P700 PLUMBING SCHEDULES
- P800 USER DEFINED

FIRE PROTECTION

FP001 FIRE PROTECTION LEGEND, GENERAL NOTES

- FPD100 BASEMENT FLOOR DEMOLITION PLAN SPRINKLER
- FPD101 FIRST FLOOR DEMOLITION PLAN SPRINKLER
- FPD102 SEOND FLOOR DEMOLITION PLAN SPRINKLER
- FPD103 THIRD FLOOR DEMOLITION PLAN SPRINKLER
- FPD104 FOURTH FLOOR DEMOLITION PLAN SPRINKLER
- FPD105 FIFTH FLOOR DEMOLITION PLAN SPRINKLER
- FPD106 SIXTH FLOOR DEMOLITION PLAN SPRINKLER
- FPD107 ROOF DEMOLITION PLAN SPRINKLER
- FP100 BASEMENT FLOOR PLAN SPRINKLER
- FP101 FIRST FLOOR PLAN SPRINKLER
- FP102 SECOND FLOOR PLAN SPRINKLER
- FP103 THIRD FLOOR PLAN SPRINKLER
- FP104 FOURTH FLOOR PLAN SPRINKLER
- FP105 FIFTH FLOOR PLAN SPRINKLER
- FP106 SIXTH FLOOR PLAN SPRINKLER
- FP107 PENTHOUSE FLOOR PLAN SPRINKLER
- FP108 ROOF PLAN SPRINKLER
- FP400 PART PLAN SPRINKLER
- FP500 SPRINKLER DETAILS
- FP600 FIRE PROTECTION RISER DIAGRAM

ELECTRICAL

- E001 LEGEND, ABBREVIATIONS & ELECTRICAL ENGINEERING DATA
- ED100 BASEMENT FLOOR DEMOLITION PLAN POWER
- ED101 FIRST FLOOR DEMOLITION PLAN POWER
- ED102 SEOND FLOOR DEMOLITION PLAN POWER
- ED103 THIRD FLOOR DEMOLITION PLAN POWER
- ED104 FOURTH FLOOR DEMOLITION PLAN POWER
- ED105 FIFTH FLOOR DEMOLITION PLAN POWER

ED106 SIXTH FLOOR DEMOLITION PLAN – POWER

- ED107 ROOF DEMOLITION PLAN POWER
- E100 BASEMENT FLOOR PLAN POWER
- E101 FIRST FLOOR PLAN POWER
- E102 SECOND FLOOR PLAN POWER
- E103 THIRD FLOOR PLAN POWER
- E104 FOURTH FLOOR PLAN POWER
- E105 FIFTH FLOOR PLAN POWER
- E106 SIXTH FLOOR PLAN POWER
- E107 PENTHOUSE FLOOR PLAN POWER
- E108 ROOF PLAN POWER
- ED200 BASEMENT FLOOR DEMOLITION PLAN LIGHTING
- ED101 FIRST FLOOR DEMOLITION PLAN LIGHTING
- ED202 SEOND FLOOR DEMOLITION PLAN LIGHTING
- ED203 THIRD FLOOR DEMOLITION PLAN LIGHTING
- ED204 FOURTH FLOOR DEMOLITION PLAN LIGHTING
- ED205 FIFTH FLOOR DEMOLITION PLAN LIGHTING
- ED206 SIXTH FLOOR DEMOLITION PLAN LIGHTING
- ED207 ROOF DEMOLITION PLAN LIGHTING
- E200 BASEMENT FLOOR PLAN LIGHTING
- E201 FIRST FLOOR PLAN LIGHTING
- E202 SECOND FLOOR PLAN LIGHTING
- E203 THIRD FLOOR PLAN LIGHTING
- E204 FOURTH FLOOR PLAN LIGHTING
- E205 FIFTH FLOOR PLAN LIGHTING
- E206 SIXTH FLOOR PLAN LIGHTING
- E207 PENTHOUSE FLOOR PLAN LIGHTING
- E208 ROOF PLAN LIGHTING
- E300 ELECTRICAL DETAILS
- E500 BASEMENT FLOOR PLAN FIRE ALARM
- E501 FIRST FLOOR PLAN FIRE ALARM
- E502 SECOND FLOOR PLAN FIRE ALARM
- E503 THIRD FLOOR PLAN FIRE ALARM
- E504 FOURTH FLOOR PLAN FIRE ALARM
- E505 FIFTH FLOOR PLAN FIRE ALARM
- E506 SIXTH FLOOR PLAN FIRE ALARM
- E507 PENTHOUSE FLOOR PLAN FIRE ALARM
- E508 ROOF PLAN FIRE ALARM

- E600 ONE-LINE RISER DIAGRAM
- E601 FIRE ALARM RISER DIAGRAM
- E602 FIRE ALARM GRAPHIC ANNUNCIATOR
- E700 ELECTRICAL PANEL SCHEDULE
- E710 LIGHTING SCHEDULE
- E800 <u>USER DEFINED</u>

AUDIO VISUAL AND TELECOMMUNICATIONS

TA001 AUDIO VISUAL AND TELECOMMUNICATIONS TITLE SHEET

TASD100 TELECOMMUNICATION DEMOLITION SITE PLAN TAS100 TELECOMMUNICATION SITE PLAN

- TA101 TELECOMMUNICATIONS SYSTEM OSP
- TA200 AUDIO VISUAL AND TELECOMMUNICATIONS BASEMENT FLOOR PLAN
- TA201 AUDIO VISUAL AND TELECOMMUNICATIONS FIRST FLOOR PLAN
- TA202 AUDIO VISUAL AND TELECOMMUNICATIONS SECOND FLOOR PLAN
- TA203 AUDIO VISUAL AND TELECOMMUNICATIONS THIRD FLOOR PLAN
- TA204 AUDIO VISUAL AND TELECOMMUNICATIONS FOURTH FLOOR PLAN
- TA205 AUDIO VISUAL AND TELECOMMUNICATIONS FIFTH FLOOR PLAN
- TA206 AUDIO VISUAL AND TELECOMMUNICATIONS SIXTH FLOOR PLAN
- TA300 TELECOMMUNICATIONS RACK ELEVATIONS
- TA301 TELECOMMUNICATIONS RACK ELEVATIONS
- TA500 TELECOMMUNICATIONS DETAILS

TA600 TELECOMMUNICATIONS RISER DETAILS

SECURITY

TY001 SYMBOLS, LEGENDS & ABBREVIATIONS – SECURITY

- TY100 BASEMENT FLOOR PLAN SECURITY
- TY101 FIRST FLOOR PLAN SECURITY
- TY102 SECOND FLOOR PLAN SECURITY
- TY103 THIRD FLOOR PLAN SECURITY
- TY104 FOURTH FLOOR PLAN SECURITY
- TY105 FIFTH FLOOR PLAN SECURITY
- TY106 SIXTH FLOOR PLAN SECURITY
- TY107 ROOF PLAN SECURITY
- TY500 DETAILS, DOORS AND RACK ELEVATION

TY501 DETAILS – CCTV CAMERAS

- TY600 RISERS SECURITY
- TY601 RISERS SECURITY DOOR DEVICES
- TY602 RISERS SECURITY SYSTEM

Note: The intent of this document is to identify and standardize bookmarks for pdf files submitted to the University by Consultants. See examples below.

Bookmarks: Bookmarks shall be Set Up as Document Outlines. Thumbnails are not required.

EXAMPLE: PDF DRAWING FILE SUBMISSION

Document Outline: (List each drawing number – sheet title for the project in each discipline)
(See Drawing Index and UMB Standard Drawing Numbers and Sheet Titles)
Architectural
G000 – Cover Sheet
A002 – Code Analysis
AD100 – Basement Floor Demolition Plan
A100 – Basement Floor Plan
Mechanical
M001 – Symbols and Abbreviations
MD100 – Basement Floor Demolition Plan – HVAC
M100 – Basement Floor Plan – HVAC
MD200 – Basement Floor Demolition Plan – HVAC Piping
M200 – Basement Floor Plan – New Work – HVAC Piping
Plumbing
P001 – Symbols and Abbreviations
PD100 – Basement Floor Demolition Plan – Plumbing
P100 – Basement Floor Plan - Plumbing
Fire Protection
FP001 – Symbols and Abbreviations
FPD100 – Basement Floor Demolition Plan - Sprinkler
FP100 – Basement Floor Plan - Sprinkler
Electrical
E001 – Symbols and Abbreviations
ED100 – Basement Floor Demolition Plan – Power
E100 – Basement Floor Plan – Power
ED200 – Basement Floor Demolition Plan – Lighting
E200– Basement Floor Plan – Lighting
Telecomm
E001 – Symbols and Abbreviations

ED100 – Basement Floor Demolition Plan E100 – Basement Floor Plan – Power

Fire Alarm FA001 – Symbols and Abbreviations FAD100 – Basement Floor Demolition Plan

EXAMPLE: PDF SPECIFICATION FILE SUBMISSION – USING FULL SPECIFICATIONS

Document Outline:

Cover Sheet Table of Contents (Full Specs - List each specification section for the project in each Division) Division 01 010100 – Summary of Work 010200 – Allowances Division 08

081113 – Hollow Metal Doors and Frames 081416 – Flush Wood Doors

Division 21

210000 – Basic Mechanical Requirements – Fire Protection

210513 - Motor Requirements for Fire Protection Equipment

Division 22

220000 – Basic Mechanical Requirements – Plumbing

220513 - Motor Requirements for Plumbing Equipment

Division 22

220000 – Basic Mechanical Requirements – HVAC

220513 - Motor Requirements for HVAC Equipment

(Do Not Include Bookmarks for Articles, Paragraphs, Subparagraphs in Full Specification Sections)

EXAMPLE: PDF SPECIFICATION FILE SUBMISSION – USING FULL SPECIFICATION DIVISION 01 & CONDENSED SPECS

Document Outline: Cover Sheet Table of Contents

(Full Specs - List each specification section for the project in each Division)

Division 01

010100 – Summary of Work 010200 – Allowances

Division 08

081113 – Hollow Metal Doors and Frames 081416 – Flush Wood Doors

(Do Not Include Bookmarks for Articles, Paragraphs, Subparagraphs in Full Specification Sections)

(Condensed Specs - List each article for project in each Part in each Division)

Division 21 (Cond Spec) [List each article in each Part]

- Part 1 General
 - 1.1 Related Documents
 - 1.2 Scope
- Part 2 Products
- Part 3 Execution

Division 22 (Cond Spec)

Part 1 - General

- 1.1 Related Documents
- 1.2 Scope
- Part 2 Products
 - 2.1 Listed Manufacturers
 - 2.2 Fire Stops, Smoke Seals and Wall and Floor Sleeve Applications
- Part 3 Execution
 - 3.1 General Requirements Execution
 - 3.2 Connections and Alterations to Existing Work

Division 23 (Cond Spec)

- Part 1 General
 - 1.1 Related Documents
 - 1.2 Scope
- Part 2 Products
 - 2.1 Listed Manufacturers
 - 2.2 Fire Stops, Smoke Seals and Wall and Floor Sleeve Applications
- Part 3 Execution
 - 3.1 General Requirements Execution
 - 3.2 Connections and Alterations to Existing Work

Division 26 (Cond Spec)

- Part 1 General
 - 1.1 Related Documents
 - 1.2 Scope
- Part 2 Products
 - 2.1 Listed Manufacturers
 - 2.2 Fire Stops, Smoke Seals and Wall and Floor Sleeve Applications
- Part 3 Execution
 - 3.1 General Requirements Execution
 - 3.2 Sleeves

(Condensed Specs: Do Not Include Bookmarks for Paragraphs and Subparagraphs Parts 1 - 3)

EXAMPLE: PDF STUDY / REPORT FILE SUBMISSION

Document Outline:

Cover Sheet Table of Contents **Executive Summary Existing Conditions Physical Conditions Environmental Conditions Design Options** Option -1Option -2Recommendations Appendices Appendix A Appendix B Tables Table 1 Table 2 Figures Figure 1 Figure 2

(Study / Report: Actual bookmarks may vary, depending on the type of Study / Report. See actual study / report Table of Contents for bookmarks.)

END OF CHAPTER 5 END OF UMB PROCEDURE MANUAL