Amended 07-25-2024 – updated website addresses

1. REQUEST FOR DEVIATION FROM THE UMB A/E DESIGN STANDARDS

To View / Access This Form Go to the UMB D&C Web Site @ https://www.umaryland.edu/designandconstruction/design-and-construction-documents/umb-standard-project-forms/

2. UMB MASTER SPECIFICATION TABLE OF CONTENTS

To View / Access the TOC Go to the UMB D&C Web Site @ https://www.umaryland.edu/designandconstruction/design-and-construction-documents/umb-master-specifications/

3. UMB MECHANICAL CAD DETAIL LIST

https://www.umaryland.edu/designandconstruction/design-and-construction-documents/umb-cad-files-for-details/

1 – ChillerPlantdet.dwg Chiller Plant Diagram for condenser water, chilled water, primary and secondary systems, cooling water systems for the building TBD

2 – HeatPlantdet.dwg Heating Plant Diagram includes primary heating water, secondary heating water (reheat), perimeter heating water zones and steam and condensate systems TBD

3 – Chldet.dwg Centrifugal Chiller Piping Details for chilled water and condenser water piping for single and multiple chillers

4 – CtWlDrFldet.dwg Cooling Tower Water Level Control Detail

5 – CtDraindet.dwg Cooling Tower Automatic Drain and Fill Detail TBD

6 – CtWaTreatdet.dwg Cooling Tower Water Treatment Detail TBD

7 – Bmpdet.dwg Base Mounted Pump Details for slab on grade and mezzanine applications utilizing end suction pumps and split case pumps

8 – InlinePumpdetdet.dwg Inline Pump Detail

9 – Extdet.dwg Expansion Tank Detail (No Glycol)

10 – Glydet.dwg Expansion Tank Detail (Glycol)

11 – Hcdet.dwg Heating Coil Details for single coils, and multiple coil applications with two way and three way control valves for TRU's & AHU's
12 – Ccdet.dwg Cooling Coil Details for single coils, and multiple coil applications with two way and three way control valves for AHU's

13 – Ercdet.dwg Energy Recovery Coil Piping Details for single coils, and multiple coil applications with two way and three way control valves for AHU's

14 – Hxdet.dwg Heat Exchanger Detail for single and multiple heat exchanger applications with 1/3, 2/3 control valves, equipment supports, etc.

15 – Chuhdet.dwg Cabinet Heater & Unit Heater Coil Details

16 – Phdet.dwg Perimeter Heat Details for connections to zoned PD and reheat systems

17 – Convdetdet.dwg Convector Piping Detail

18 – FanCoilUnitPipingdet.dwg Fan Coil Piping Detail

19 – WcAcudet.dwg Water Cooled Compressorized A/C Unit Piping Detail

20 – Tprvdet.dwg Temperature & Pressure Relief Valve Piping Detail

21 – Mpsdet.dwg Miscellaneous Pipe & Fitting Details

22 – Stsrvdet.dwg Steam Service Building Piping Detail for new projects

23 – Srvdet.dwg Steam Relief Vent Detail

24 – Stcdet.dwg Steam Coil Piping Detail

25 – Humdet.dwg Humidifier - Duct Mounted Steam Grid Type Detail

26 – Emddet.dwg End of Main Drip Detail

27 – Rdrpdet.dwg Steam Riser Drip Detail.

28 – Trudet.dwg Terminal Reheat Unit Detail for sheet metal connections

29 – Etudet.dwg Exhaust Terminal Unit Detail for sheet metal connections

30 – Ddtdet.dwg Dual Duct Terminal Unit Detail for sheet metal connections

31 – FcuAbvClgdet.dwg Fan Coil Unit – Above Ceiling Duct Connection Details

32 – AirDevicedet.dwg Air Device Details

33 – Ductdet.dwg Miscellaneous Duct Details

34 – Dfddet.dwg Duct Fire Dampers Details for both horizontal and vertical applications

35 – Shdet.dwg Sprinkler Head Piping Detail for renovation projects and new projects

36 – Szvdet.dwg Sprinkler Zone Valve Piping Detail for new projects

37 – WaServdet.dwg Water Service Entry Piping Details

38 – Acddet.dwg Air Conditioning Condensate Drain Details for Draw through and Blow through Air Handling Units

39 – Rodidet.dwg RO / DI Water Piping Details

40 – WallFlrPipSlvdet.dwg Wall / Floor Sleeve Piping Details for new construction and renovation projects

41 – BotGasPdet.dwg Bottled Gas Piping Details for manifold systems

42 – GasZoneValvedet.dwg Gas Zone Valve Detail for laboratories

43 – BSCPipingdet.dwg Bio Safety Cabinet Piping Detail.

44 – IceMachinePdet.dwg Ice Machine Piping Detail

45 – EmergencyShowerdet.dwg Emergency Shower Piping Detail

46 – MopSinkdet,dwg Mop Sink Piping Detail

47 – Rcbdet.dwg Roof Curb Details

48 – Esbdet.dwg Equipment Support Base Detail

49 – Atcdet.dwg ATC TRU Control Diagrams for TRU's only, TRU's with Fume Hoods and TRU's with Fume Hoods and Exhaust Terminal Units

50 – BtuFmPipedet.dwg Btu Flow Meter Pipe Details for both in line and insertion type flow meters.

51 – BtuFmBasEthdet.dwg Btu Flow Meter BAS Ethernet Details for both in line and insertion type flow meters for ethernet applications

52 – FmBasEthdet.dwg Flow Meter BAS Ethernet Details for both in line and insertion type flow meters for ethernet applications

53 – UltrFloEngMdet.dwg Ultrasonic Energy /Flow Meter Detail

54 – HousekeepingPaddet.dwg Housekeeping Pad Detail for M/E Equipment

xx – BtuFmBasNoEthdet.dwg Btu Flow Meter BAS Non Ethernet Details for both in line and insertion type flow meters for non ethernet applications. (Reference Only - No Longer Required)

4. UMB STANDARD PDF FILE BOOKMARKS FOR A/E SUBMISSIONS

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 – 1
Option – 2
Recommendations
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 7 APPENDICES

END OF UMB A/E DESIGN STANDARDS