June 2019 BDS Updates- Summary (more than 475 items in 23 divisions and six appendices)

June 2019 BDS Updates (all updates are marked with underline and sidebar to the right in the body of BDS)

Division 00 The Design Process
- Various locations: updated new submittal requirements related to documentation preparation, e-builder and closeout policy
  - 00036.1.2 Updated the requirements on mop sink
  - 00036.4 Updated the requirements for loading docks
  - 00036.5 Updated the requirements for trash dumpster
  - 00038.1 Added the temporary closure of egress must be reviewed and approved by Department of Public Safety
  - 00038.9.2 Updated the procedures of connecting to university owned water system
  - 00038.13 Updated the provision for lactation/wellness rooms

Division 01 General Requirements
- 01 31 19 Added additional requirements either to provide photos or invite FOD Operations personnel to observe the installation of building envelope related items
- 01 33 13 Updated water testing report requirements
- 01 33 23 Eliminated paper copy requirements for shop drawings submission
- 01 40 00 Required all construction trash dumps be placed on concrete pads
- 01 43 00 Added that representative from manufactures be present before and during the certain building envelope components to ensure construction quality
- 04 45 00 Added that periodic inspection by a third-party agency for certain building envelope components
- 01 50 00 Removed the reference to the State Architect’s Handbook
- 01 50 00.2&3 Updated approval procedures to use existing and new HVAC during construction
- 01 51 00 Updated temporary water connection FOD contact information and the meter and backflow preventer requirement.
- 01 52 13.1 Replaced word “telephone” with “other necessary communication equipment” for job trailers.
- 01 55 00.4.3 Reworded “special duty officer” to “traffic control officer”
- 01 56 00 Added a provision that closure of building entrance requires approval from University Department of Public Safety
- 01 77 00.1 Added that contractor shall clean debris from roofing and flashing installations
- 01 78 23 Added words that maintenance information on certain building envelope components shall be provided to FOD Building Envelope Engineer
- 01 78 36.2 Added extended warranty requirements for certain building envelope components
- 01 78 38.1 Added that third-party inspection requirements on subgrade plaza deck and green roof installations

Division 02 Existing Conditions
- 02 82 00 Simplified the verbiage of hazardous materials and asbestos remediation. Removed clauses more related to contractor’s means and methods.
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- 02 82 00  Updated the regulatory agency name as ODH’s asbestos program has been merged into OEPA
- 02 82 00.4.7  Updated closeout requirements
- 02 82 99.5.11  Updated web link for the Abatement Design Checklist

Division 03  Concrete
- 030000.6  added maximum footing steps
- 030000.7  added earth-formed excavations tolerance
- 030000.8  added water stops for under grade construction joints
- 030000.9  added slab on grade control joint spacing
- 033000.1  replaced University Architect/Engineer with Project Manager
- 033000.2  replaced University Architect/Engineer with Project Manager
- 033000.3.5  added epoxy coating for nosing rebar
- 033000.3.7  added minimum thickness for vapor barrier
- 033000.3.12  delete reference to Post Tensioned
- 033000.3.13  added paragraph on concrete mix design
- 033300.2  removed minimum size of sample Panel
- 033410.  Relocated paragraphs on insulating concrete roof deck to 035200
- 033543  added provisions on polished concrete finishing
- 034100.1  added requirement of bonded strains in precast
- 034113  added provisions on precast concrete hollow core planks
- 034500  added clauses to architectural precast concrete

Division 04  Masonry
- 040519.1  restricted veneer to 18” above grade
- 040523.1  remove use of cotton cord in weep holes
- 042100.  Clay facing tile select quality
- 042100.1  require reinforcing for structural tile partitions
- 044020.4  require field constructed mock-ups
- 044200.1  prohibit soft stone cladding within 36” of grade

Division 05  Metals
- 051200.5  added to double nut hanger rods
- 051200.6  added vibration requirements
- 051200.7  added camber limits
- 051200.8  added galvanizing exterior steel
- 051200.9  added recording all web penetration to as built
- 051200.10  added to design to AISC standards
- 052000.3  added to design to SJI standards
- 053000.1  added requirement to submit certificates to A/E
- 053000.3  added to design to SDI manual
- 053000.4  added requirement for diaphragm guidelines
- 054000.3 – 054000.7  added cold formed metal framing requirements
- 055000.1 – 055000.4  added additional requirement for metal fabrication
- 055100.3  added requirement to submit certificates to A/E for approval
- 055200.1  added requirement to face mount handrails
Division 06 Wood, Plastic, and Composites
- Wexner Medical Center specific division 06 requirements have been incorporated and highlighted in green color
- 060003.2 Reference Appendix V for power driven anchors
- 060573.1 Commentary, added fasteners in contact with CCA wood to be hot dipped galvanized or stainless steel.
- 060573.2 - 060573.5 Imported from appendix
- 060573.3 added fire retardant wood to be used per manufactures instructions
- 061000.3 Imported from appendix
- 06 20 00.1 Struck out: “MATERIALS AND FABRICATION”
- 06 22 00.1.1 Struck out: “The Space in which millwork is to be installed needs to be engineered with appropriate humidity controls to maintain optimum relative humidity or 25-55%.06 40 00.1 Redundant humidity standard requirements deleted.
- 06 40 00 Expanded provisions related to architectural woodwork
- 06 61 16 Added a section on Solid Surface Fabrications

Division 07 Thermal and Moisture Protection
- 07 00 00.1 Added “Test Report for acceptable component of an NFPA 285 approved system.”
- 07 00 00.2 Added: NFPA 285 Compliance requirements.
- 07 10 00.1 A/E shall demonstrate where condensation will occur.
- 07 11 00.1 Damproofing: Foundation Waterproofing moved to 07 12 00.1
- 07 11 00.2 States where Damproofing is allowed.07 12 00.1 Waterproofing relocated here.
- 07 12 00.4 Contractor’s submittal required.
- 07 22 00.2 added “opinion” to clarify A/E’s cost estimate.
- 07 22 00.3 Requires insulation to be provided in a minimum of 2 layers and staggered between layers.07 22 00.4 Provide insulation materials and insulation fastening in accordance with manufacturer’s printed instructions and in accordance with FM Approved Standards.07 27 00.3 Contractor’s submittal requirement.
- 07 27 00.4 Contractor’s submittal requirement.
- 07 27 00.6 Air barrier assembly observation requirement before covered.
- 07 40 00.3 Preformed Roofing and Siding Panels: Shop drawing requirements.
- 07 40 00.4 Preformed Roofing and Siding Panels: Manufacturer’s Field report requirements.
- 07 40 00.5 Panel wall system added ‘Open’ system preferred.
- 07 50 10.4 Added Observation by FOD’s representatives.
- 07 50 10.7 Added roof cleaning and protection requirements.
- 07 50 10.8.1 Added Class I vapor retarder and sealing requirements.
- 07 52 00 Moved “Modified Bitumen Sheet Roofing” from 07 54 00.1
- 07 54 00.1 Struck out “Modified Bitumen Sheet Roofing” and moved to 07 52 00
- 07 54 00.2 Moved “Clean UP” to 07 50 00
- 07 60 10.1.1 Added “prefer 12”
- 07 60 10.1.2 Added: building façade materials, etc. shall not obstruct access to roofing terminations
- 07 60 10.6 Compatible fastener requirements...
- 07 70 00.1 Gutters and downspouts shall be of seamless construction...
- 07 72 00.2 Roof hatches location requirements.
- 07 81 00.4 Added fireproofing commentary box.
- 07 90 10.5 Added ‘onsite and in-place’ referring to Mock-Ups.
- 07 92 00.3 Added Below Grade sealant requirements.

**Division 08 Openings**
- 08 00 10 Added slab lading at outside of the exterior doors.
- 08 00 20 Removable Mullion requirement at one pair of exterior doors.
- 08 00 40 Reference to approved signage standards.
- 08 00 80 Wexner Medical Center ownership of cylinders and cores.
- 08 11 13.1 Requirement for thermally broken door and frame.
- 08 11 13.2 10-inch bottom rails.
- 08 11 13.3 Deleted and move to 08 30 00.1
- 08 11 13.3.1 Deleted and moved to 08 30 00.1.1
- 08 11 13.3 Added Acoustically insulate Hollow Metal Frames that are not grouted.
- 08 14 30 Added Wexner Medical Center approval requirements for wood grain and orientation.
- 08 30 00.2 Wexner Medical Center lock core keying requirements.
- 08 30 00.2.1 Wexner Medical Center Access Doors lock core requirements.
- 08 50 10.1 Requires Contractor submittal to A/E
- 08 70 10.1 Wexner Medical Center Hardware Specification contact person.
- 08 70 10.2 Wexner Medical Center Key Quantity requirements.
- 08 70 20.6 Wexner Medical Center Prohibits surface mounted and concealed vertical rod exit devices.
- 08 70 30.8 Wexner Medical Center Architectural Seals Smoke Labeled Gasketing Assemblies.
- 08 71 10.1 Wexner Medical Center Hinges.
- 08 71 20.1.8 Wexner Medical Center Institutional Bath/Privacy F26.
- 08 71 20.1.10 Moved Best 35 H Series available to Ohio State University
- 08 71 30 Wexner Medical Center Sargent Closers
- 08 71 30 .2 Wexner Medical Center Closers
- 08 71 80 Wexner Medical Center Surface Bolt Manufacturers
- 08 71 90 Wexner Medical Center approved keys.
- 08 71 90.4 Wexner Medical Center approved cylinders.
- 08 71 99 Wexner Medical Center Door Hardware Reference Specification.
- 08 74 00.83 Wexner Medical Center Electrified Handsets.
- 08 75 00.1 Wexner Medical Center card reader requirements; offline standalone locks.
- 08 75 00.2 Wexner Medical Center Hardware accessories.
- 08 75 00.4 Wexner Medical Center Wireless Access Control Cabinet Locks.

**Division 09 Finishes**
- 09 00 03.1 Designs: Wexner Medical Centers approval requirement for materials, colors, finishes, etc.
- 09 00 03.3 Wexner Medical Center consult FGI Guidelines for appropriate finish selections.
- 09 01 00.1 Wexner Medical Center finished shall be reviewed and tested by WMC prior to acceptance.
- 09 05 61.13 Moisture Vapor Emission Control for interior concrete to prepare for floor covering installation.
- 09 08 00.1 Wexner Medical Center floor finish requirements
- 09 2116 Gypsum Board Assemblies preferred staggered stud assemblies with insulation for acoustical concerns.
- 09 21 16.1 Gypsum Board System Standards
- 09 30 00.1 Tiling requirements.
- 09 30 00.2 reference Moisture Vapor Emission Control for concrete...
- 09 30 00.3 & .4 Installation Guidelines and tolerances
- 09 50 00 2. Ceiling installation tolerances.
- 09 51 00.1 Acoustical Ceilings Design requirements.
- 09 53 00 Acoustical Ceiling Suspension Assemblies requirements added.
- 09 60 00.3 Flooring reference Moisture Vapor Emission Control for concrete...
- 09 65 13.13.1 Resilient Base Wexner Medical Center requirements 6" high base
- 09 65 13.23 Resilient Stair Treads and risers Wexner Medical Center requirements.
- 09 65 16.1 Resilient Sheet Flooring Wexner Medical Center requirements.
- 09 65 16.13 Linoleum Flooring Wexner Medical Center requirements.
- 09 66 00 Terrazzo Flooring requirements
- 09 66 23 Resinous Matrix Terrazzo Flooring requirements.
- 09 67 00 Fluid Applied Resinous Flooring (Epoxy) requirements.
- 09 67 23 Fluid Applied Resinous Nitogen Resistant Flooring requirements.
- 09 68 00 Change Carpeting to Carpet Tile requirements
- 09 72 00.2 Wall Coverings no vinyl covering on the interior side surface of exterior walls.
- 09 90 00, 09 91 13, 09 91 23 Painting and Coating requirements
- 09 93 00 Staining and Transparent Finishing requirements.

Division 10 Specialties
- 10 11 00.1 Added Markerboards and glass markerboards to warranty list.
- 10 11 00.3 Manufacturers shall have minimum 5 years’ experience
- 10 11 16.1 & .2 moved to 10 11 00
- 10 11 16.13.2.2.1 Polished edges. Back painted.
- 10 11 16.2.2.1.1 Magnetic Boards requirements
- 10 11 16.2.2.4.1 Magnetic Boards: Provide one set rare earth magnets. Need product cuts for Wexner Medical Center specific products and requirements.
- 10 11 16.2.3 Need product cuts for Wexner Medical Center specific products and requirements.
- 10 11 23 Horizontal Sliding Visual Display Units requirements.
- 10 11 43.1 & .2 Visual Display Wall Panels: Outlet requirements.
- 10 13 00.4 Directories: Contact Wexner Medical Center signage coordinator for medical signage requirements.
- 10 14 00.6 Signage: Contact Wexner Medical Center signage coordinator for medical signage requirements.
- 10 14 16.5 Plaques: Contact Wexner Medical Center signage coordinator for medical signage requirements.
- 10 21 11 Commercial Toilet Accessories
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- 10 21 12 Paper Towel Dispensers
- 10 21 13.1 Wexner Medical Center: Solid phenolic toilet partitions and urinal screens...
- 10 21 13.2.1 - .2.3 Wexner Medial Center: Phenolic toilet compartment panel dimensions...
- 10 21 13.3 Standard Urinal Screen...
- 10 21 23.13 .3 Cubicle Curtains requirements...
- 10 21 23.16.1.1 Cubicle Track and Hardware
- 10 22 23 Accordion Folding Partitions
- 10 22 29 Folding Panel Partitions
- 10 26 00 Wall and Door Protection
- 10 28 13.2 Toilet, Bath and Laundry Accessories Wexner Medical Center requirements.
- 10 28 13.13 Commercial Toilet Accessories: Refer to responsibility matrix for OP/CP and OI/CI.
- 10 28 13.13.2 Maximum reach height 48”
- 10 40 00.1 Wexner Medical Center Emergency Eyewash Guidelines.
- 10 43 17.1 AED Cabinets requirements.
- 10 44 13.1 Fire Extinguisher Cabinets additional information.
- 10 44.16.1 added Halotron I type extinguisher
- 10 51 13 Metal Lockers requirements.
- 10 51 23 Plastic Laminate Clad Lockers requirements.
- 10 82 13.1 Exterior Grilles and Screens: Provide drainable louvers for all exterior locations

Division 11 Equipment
- 11 13 00.1 Loading Dock design information deleted.
- 11 14 00.1 third paragraph, added requirement to review with ADA coordinator on pedestrian control device
- 11 52 13.4 added reference projection screen procedures web site
- 11 53 00 Appendix W web link inserted here.
- 11 70 00.1 Added “Wexner Medical Center stakeholders”
- 11 70 00.4 Added Wexner Medical Center smaller movable medical equipment items funding within project funds.

Division 12 Furnishings
- Incorporated OSUWMC specific requirements and highlighted in green color
- 12 21 00.2 Blind installation Mock-up requirements.
- 12 21 00.3 Do not install blinds into window framing system
- 12 22 00.2 All Curtains and draperies shall be Class A Fire Rated.
- 12 24 00.2 Mock-up requirements.
- 12 24 00.3 Roller Shades requirements.
- 12 24 00.5 Warranty requirements
- 12 24 00.5 Wexner Medical Center Interior Finish Schedule reference.
- 12 25 00.2, .3, .4 Motorized Shade Systems, Demonstration, Training.
- 12 30 00.3, .4 Casework Mock-up, Assembly, and Wexner Medical Center requirements.
- 12 32 16.1, .2, .3, 4 Manufactured Plastic Laminate Clad Casework, and Wexner Medical Center requirements.
- 12 48 00.2 no nosing strips at carpet stair locations
- 12 48 00.3 Class A Fire Rated.
- 12 48 13.3., 4., .5 Entrance Floor Mats and Frames.
- 12 49 00 Waste and Recycling Receptors
- 12 60 00.1 Multiple Seating A/E specify all utility fittings.
- 12 93 13.2 Dero Bike Rack Co.

Division 13 Special Construction
- 13 42 73.15.1 Integrated Ceiling Assemblies Coordination of Installation.
- 13 49 00.1 Radiation Protection Design requirements.
- 13 49 00.2 Added NCRP report number changes.

Division 14 Conveying Equipment
- Incorporated OSUWMC specific requirements
- 14 20 011.5.1.b: clarified the definition of the 10th month anniversary date for reinspe ction and to whom the AE and Elevator Consultant shall submit the final report
- 14 20 02.5.1.2 Added that lights shall not be connected to the load side of a GFCI device
- 14 20 02.5.1.3 Added a provision about software updates
- 14 20 02.6.1.1 f. Location of pit light switch.
- 14 20 02.6.1.1 g. Require LED fixture.
- 14 20 02.7 added “…office, student rooms, and occupied rooms.”
- 14 20 03.2.1 added “Prohibited Elevator Types”
- 14 20 03.5.20.6 Combine same Wexner Medical Center operating panel engraved requirements.
- 14 20 03.5.20.12 Wexner Medical Center: Consideration shall be given to the type and frequency of traffic on each elevator for heavy-duty car sills.
- 14 92 00 added Pneumatic Tube Systems

Division 21 Fire Suppression
- 21 00 03.1 Relocated applicable articles from former Division 21-28 here
- 21 00 03.2 Updated code reference
- 21 00 03.3.1 Added a requirement to perform water test on existing fire pumps
- 21 00 03.5 Incorporated WMC sprinkler system scope requirement
- 21 00 03.9 Added Impairment Form information
- 21 00 05 Revised submittal requirements
- 21 00 05.7 Added a provision that the sprinkler products and equipment shall be USA made
- 21 00 05.7.2 Added a requirement on water test data submission
- 21 00 05.7.3 Added a commentary about the preliminary shop drawing submission.
- 21 00 07.1 Added “…Protect landscaping, property, and personnel from water discharge”
- 21 00 09.3 Wexner Medical Center: Fire Hose Cabinets are not required.
- 21 05 25.1 UL listed
- 21 05 25.1.2 added: rigid grooved.
- 21 05 25.1.3 Consider specification of minimum 250 psi valves.
- 21 05 25.1.4 Added Post indicating valve requirements.
- 21 11 16.1.5 Added: DPS
- 21 11 16.2.6 Added: within 100 feet
- 21 11 16.2.6.2 Valve box to be accessible.
- 21 11 16.2.7 fire suppression contractor must use calibrated pressure gauges for all pressure test
- 21 11 16.3 Coordination of Underground Utilities Recording during construction.
- 21 12 00.1.1 Water flow test data used for design shall be less than 12 months old.
- 21 12 00.2 Requirements for “Where pressure reducing type hose valves are installed.”
- 21 12 20 Wexner Medical Center: Fire Hose cabinets are not required.
- 21 12 20.2 hose pressure limitation requirements.
- 21 12 20.6 Added Wexner Medical Center
- 21 13 00.2 Sprinkler piping shall not be routed over electrical equipment.
- 21 13 00.4 Added “high-low pressure switch”
- 21 13 00.4.1 added: air dryer or nitrogen generator requirements, and dedicated air compressor tank.
- 21 13 00.5 Drain location requirements.
- 21 13 00.6 & .6.1 Zoning (Zone Valve Assemblies) requirements.
- 21 13 00.7.1 Weatherproof tamper switches required in wet or humid locations.
- 21 13 00.10 Wexner Medical Center sprinkler head requirements.
- 21 13 00.10.1 List of sprinkler manufacturers.
- 21 13 00.10.2 UL listed guards requirements.
- 21 13 00.10.3 Stainless steel sprinklers and escutcheons.
- 21 13 00.12.1 Externally galvanized piping considered for areas subject to corrosion.
- 21 13 00.13 Wexner Medical Center operating room pre-action fire suppression system.
- 21 13 00 Commentary: Prevention of microbiologically influenced corrosion (MIC)
- 21 13 00.14 Added Class 125
- 21 13 00.15 Added number of bends and bend radius limitations for flexible fire sprinkler drop hose.
- 21 30 00.2 Added: with integral transfer switch.
- 21 30 00.2.2 Added: electrical fire pump requirements.
- 21 30 00.6 Added: Water Supply design requirements.
- 21 32 00 Added: Training requirements.

Division 22 Plumbing
- Wexner Medical Center specific division 22 requirements have been incorporated and highlighted in green color
- Former Division 21-28 Facility Services has been eliminated. Plumbing related provisions have been relocated to here
- 22 00 07.11 added a clause on plumbing commissioning
- 22 05 25.1.3 Valve tag requirement have been updated
- 22 05 25.8.1 Specs for butterfly valves have been updated
- 22 07 19.1 Reference code information has been updated.
- 22 20 06.1.1 Added hot water heaters efficiency requirement
- 22 20 06.1.5 Added reference about the hot water heater redundancy
- 22 20 07.2.7 Revised provisions the floor drains in eyewash areas.
- 22 20 07.2.14 Added provisions on sewage ejector pumps
- 22 40 00.1 Added a general requirement on low flow rate water fixtures
- 22 40 00.3.1 Added detailed descriptions of various water fixtures
- 22 40 00.3.7 Expanded verbiage on copper tube use as water supply lines
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Division 23 HVAC
- Wexner Medical Center specific division 23 requirements have been incorporated and highlighted in green color
- Former Division 21-28 Facility Services has been eliminated. HVAC related provisions have been relocated to here
- Changed the bearing rating requirement (23 00 03.5.1)
- Revised Testing of ducts and air shafts. (23 00 07.2.1)
- Added “Commissioning” reference to the Testing section (23 00 07.3). [Note: Commissioning is not just Testing.]
- Revised Gauges requirements (23 05 19)
- Changed certain requirements on valves used in hydronic systems (23 05 25)
- Revised ductwork insulation requirements (23 07 13)
- Added “Noise Criteria” to Section 23 07 13.3
- Clarified “vapor barrier” requirements in Section 23 07 19.
- Instrumentation and Control for HVAC: Added Section 23 09 00 to explain the new approach to Appendix A. Appendix A is now divided into the three separate Appendices [FOD/OSUWMC/Student Life]. This is a major change that should improve project delivery related to HVAC controls.
- Clarified certain requirements on piping design (23 20 03)
- Added additional acceptable refrigerant piping fittings (23 20 05)
- Amended requirements on steam traps (23 20 09)
- Revised pump requirements (23 20 13)
- Added air leak detection requirements (23 30 00)
- Added fire and smoke dampers requirements (23 33 00)
- Incorporated Appendix R- Window Conditioner Policy (23 36 05.1.5). Appendix R thus was removed
- Added a provision that all chiller control board shall have energy management and metering features (23 61 05, 23 64 05)
- Added a commentary on condenser box design (23 63 05, 23 64 05)
- Added radiant ceiling panels are prohibited (23 82 10)

Division 26 Electrical
- 26 00 00 Throughout the entirety of Division 26 Wexner Medical Center standards were incorporated as inserted line items/alternate standards to eliminate the need for a separate Medical Center only Division 26.
- 26 00 00 Throughout the entirety of Division 26 references to the OSU Utilities group (High Voltage) were updated to Ohio State Energy Partners (OSEP).
- 26 00 00 Throughout the entirety of Division 26 all sections have been updated to reflect any code changes that have been imposed since the latest revision to the BDS.
- 26 00 03 All lighting fixture types other than LED technology are now prohibited to meet energy code.
- 26 05 15 Aluminum conductors and cables are now allowable in addition to Copper with restrictions and installation methods that match industry standard best practices spelled out.
- 26 05 15 Metal Clad (MC) cable is allowed in more locations than was previously, with restrictions and installation methods that match industry standard best practices spelled out.
Division 27 Communications
- 27 00 00 Throughout the entirety of Division 27 Wexner Medical Center standards were incorporated as inserted line items/alternate standards to eliminate the need for a separate Medical Center only Division 27.
- 27 00 00 Throughout the entirety of Division 27 all sections have been updated to reflect any code changes that have been imposed since the latest revision to the BDS.
- 27 52 23 Nurse Call Systems have been added along with guidelines pertaining to the FGI guidelines for Health Care facilities in addition to reference of the Program of Requirements.
- 27 53 19 Distributed Antenna Systems (DAS) for Non-Emergency Responder systems have been broken out and outlined here while Emergency Responder DAS are spelled out as a separate system requiring separate infrastructure in Div 28 to meet life safety code.

Division 28 Electronic Safety and Security
- 28 00 00 Throughout the entirety of Division 28 Wexner Medical Center standards were incorporated as inserted line items/alternate standards to eliminate the need for a separate Medical Center only Division 28.
- 28 00 00 Throughout the entirety of Division 28 all sections have been updated to reflect any code changes that have been imposed since the latest revision to the BDS.
- 28 1005 Guidelines for Security System planning with the Department of Public Safety have been updated.
- 28 1010 The ACAMS system is supported on the regional campuses.
- 28 1010.8.5 ACAMS Security systems do not monitor the fire alarm, HVAC or Emergency Generator systems for the OSUWMC related facilities unless otherwise specified.
- 28 31 00 General article numbering changes.
- 28 31 00.1.3.6 Fire Command Center required.
- 28 31 00.1.3.7 NFPA 72 survivability level.
- 28 31 00.1.3.9 Monitoring of Emergency Responder Radio System.
- 28 31 00.2.1.18 – 28 31 00.2.1.18.4 Space used for Environmental air-handling purposes.
- 28 31 00.2.7.3 Duct Detectors requirements.
- 28 31 00.4.1 Requires A/E to consult with DPS and TSG prior to meetings with Authority Having Jurisdiction.
- 28 31 00.4.2.1 A/E shall require contractor compliance with OBC, OFC, and NFPA 72 submittal requirements.
- 28 31 00.4.2.2 Requires review and acceptance of fire alarm shop drawings by the University.
- 28 31 00.4.9 Work on Existing Systems requirements.
- 28 31 00.4.9.1 Fire Protection System Impairment Form.
- 28 47 53 Distributed Antenna Systems (DAS) for Emergency Responder systems have been broken out and outlined here while Non-Emergency Responder DAS are spelled out as a separate system requiring separate infrastructure in Div 27 to meet life safety code.

Division 31 Earthwork
- 31 11 00.1 Add reference to Columbus and ODOT specifications on clearing
- 31 11 00.2 Added reference to Columbus and ODOT specifications on clearing
- 31 11 00.3 Added reference to Columbus specification on tree protection
- 31 23 00.1 Added fill material specs
- 31 23 00.2 Added a provision on dewatering
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- 31 60 00 Remove most of section “Special foundations and load-bearing elements”. Modified language that certain types of foundation will require approval from University
- 31 63 26 Remove section “Drilled caissons”

Division 32 Exterior Improvements
- 32 00 00.2 Added loading dock areas to the list of areas that need to have turning radius checked
- 32 00 00.2.3 Specified that 30” is the minimum diameter for manhole lids
- 32 00 00.4 Added that minimum 6’-6” shall be maintained between posts for snow plow purpose
- 32 12 16 .2.2 Updated the pavement compositions
- 32 12 16.2.3 Added CampusParc to the parking lot approver list
- 32 12 16.2.5.1 Removed additional coal tar coating requirement
- 32 12 16.2.7 Added reference specifications for joint sealers
- 32 13 13.3 Added sealer requirement for all new concrete pour
- 32 13 14.1 Added specs for unit paving
- 32 16 00.2 Added requirements for designing ADA ramps
- 32 16 00.2.3 Added specs for detectable waring plates
- 32 17 23 Updated specs for pavement marking
- 32 90 00.7 Changed planting soil PH range from 5.5.-7 to 6-8.
- 32 91 00.1 Added a reference to Design Guidelines for Building and Landscape
- 32 91 00.3.1 Changed the reference to the compaction testing protocol
- 32 92 19.1 Added reference to Design Guidelines for Building and Landscape for seeding
- 32 93 00.2 Added reference to Design Guidelines for Building and Landscape for shrubs
- 32 93 00.3 Added reference to Design Guidelines for Building and Landscape for trees

Appendix A - FOD Building Automation System for FOD Buildings
- 1.01.A Updated software description to call out enteliWEB Server and removed reference to Student Life Section.
- 1.01.B.2 Updated to prevent water infiltration of enclosures and expectations of old control panel demolition.
- 1.01.E.2.b Clarified that Application Specific Controllers (ASC) are not permitted
- 1.01.E.2.d Clarified that Delta enteliVIZ graphics must be used
- 1.01.E.2.e Clarified process for set up of alarms and auto generated alarm messages
- 1.01.F.1 All references to ASC have been removed
- 1.02.B.2 Clarified who provides network communication equipment
- 1.04.A Updated that submittals are issued in an electronic format and that a review meeting be scheduled with OSU prior to the ordering of material
- 2.00.C Updated to reflect redesign of the Building Automation Network and clarified how buildings will be segmented with the use of Juniper Firewalls
- 2.00.H We no longer use ASCs and the section was removed/renumbered
- 2.00.I All references to ASC have been removed
- 2.01.A.2 Updated to reflect redesign of the Building Automation Network and included a Logical Building Level Network Diagram with required components and their respective manufactures
- 2.01.D Updated to reflect acceptable intercommunication protocols
- 2.01.E Updated to match changes in section 2.03.J.11
- 2.02.M Updated to include how loops shall be programmed
- 2.03.E.4 Updated to reflect requirements for alarm messages
- 2.03.E.5 Added to reflect that alarms shall only be created if they require an operator to take an action
- 2.03.E.6 Added to state the minimal alarms for AHU and included a chart with EVs
- 2.03.J.11 Added to state how Advanced Application Controllers shall be used to control laboratory HVAC processes with an example diagram for wiring
- 2.04 We no longer use ASCs and the section was removed/renumbered
- 2.05.B.5 Added to state that occupancy schedules for AHU should avoid starting stopping the units
- 2.05.C.4 Added to state that analytics software licensing and hardware needs to be included in new buildings or building renovation projects where HVAC controls are upgraded
- 2.05.D.4.d Added to state how the main building graphic will be setup
- 2.05.D.7 Added to state how graphical points will reflect “in hand” or overridden state
- 2.05.D.8 Added to state commissioning process of new or updated graphics
- 2.07.A.6 Clarified temperature sensor locations
- 2.07.I Clarified pressure sensor locations
- 2.07.M Clarified Variable Frequency Drive relay usage and mounting
- 3.03.A Clarified general requirements for service and guarantee
- 3.03.F.d Added additional requirements for As-Builds documentation

Appendix A-SL Building Automation System for Student Life Buildings
- 1.3.A. Removed requirement for remote connection at HHph2 office
- 1.3.A. Added provision for SL to provide NAEs for integration
- 1.4.C.2. Changed provision for contractor purchase and install of control valves and actuators
- 1.4.C.3. Changed provision for contractor purchase and install of dampers and actuators
- 1.4.C.5. Added verbiage for HVAC contractor providing and installing of valves, dampers, actuators, and flow sensors with access doors when SLBAS is providing install.
- 1.4.D.2. Removed provision allowing Ethernet hubs and added requirement for Ethernet devices to be home run.
- 2.1.F.5. Removed provision requiring BAS contractor to build their own Ethernet network
- 2.2.F. Removed provision requiring RS-232C serial data communication ports.
- 2.2.H. Removed provision for binary point indication without use of I/O device
- 2.4.E. Changed provision requiring alarm storage in local controller to disallowing such storage
- 2.4.F.1.a. Changed from DDC to Building Controller
- 2.4.F.2. Changed Trend Data provision storage from DDC controller to Building Controller
- 2.4.J.7. Removed provision for local trend storage
- 2.5.L.6. Added provision for local access via local display
- 2.5.M.3.g. Added zone sensor verbiage to thermostat description for further definition
- 2.7.D NOTE. Added verbiage that graphics shall only be created in the SLBAS Johnson Controls server
- 2.9.F. Deleted verbiage describing damper being provided by DDC contractor
- 2.9.P.1. Changed acceptable water monitoring sensor manufacturers
- 3.7. Removed provision for providing Delta Entelibus controller

Appendix A-WMC Building Automation System for Wexner Medical Center Buildings
1.01A Specified integration to existing platform  
1.01C Specified data analytics and continuous commissioning  
1.01D.4 Modified verbage for Packaged Units  
1.01F Removed Portable Operator’s Terminal requirement  
1.01F.2c Clarified graphics creation  
1.01F.2d Clarified Alarm creation  
1.01F.7 Clarified software and operating system requirements  
1.04A Clarified submittal requirements  
2.01C Modified network requirements  
2.01D Removed references to ‘dial-up’ modems  
2.05 Specified section is not applicable for OSUWMC  
2.06D Clarified graphics requirements  
2.08F Removed requirement for valves >2.5” to be pneumatic  
2.08G Specified acceptable AFMS provider  
3.02F Added requirement to contact Owner prior to adding devices to network  
3.02G Added requirement for Owner acceptance  
3.03F Added requirement for panel drawings in enclosure

Appendix I - Examples of Piling Cost Calculations  
- Removed because it has never been used or referenced

Appendix M – Communications Wiring Standard  
- Section V 6) NetShelter A), B), and C): OCIO deleted NetShelter requirements  
- OCIO deleted Exhibit I NetShelter

Appendix R- Window Air Conditioner Policy  
- Removed as the information has been incorporated into Division 23

Appendix V-Safety Health & Environment  
- Removed redundant clauses on indoor painting as they are addressed in Division 9.  
- Removed clauses related to necessity for demonstrating to and obtaining permission using certain tools  
- Added clause related to confined space training

Appendix Z-Building Informing Modeling  
- Removed as information has been incorporated into applicable divisions

Wexner Medical Center Appendices  
- Removed as information has been incorporated into applicable divisions and Appendices