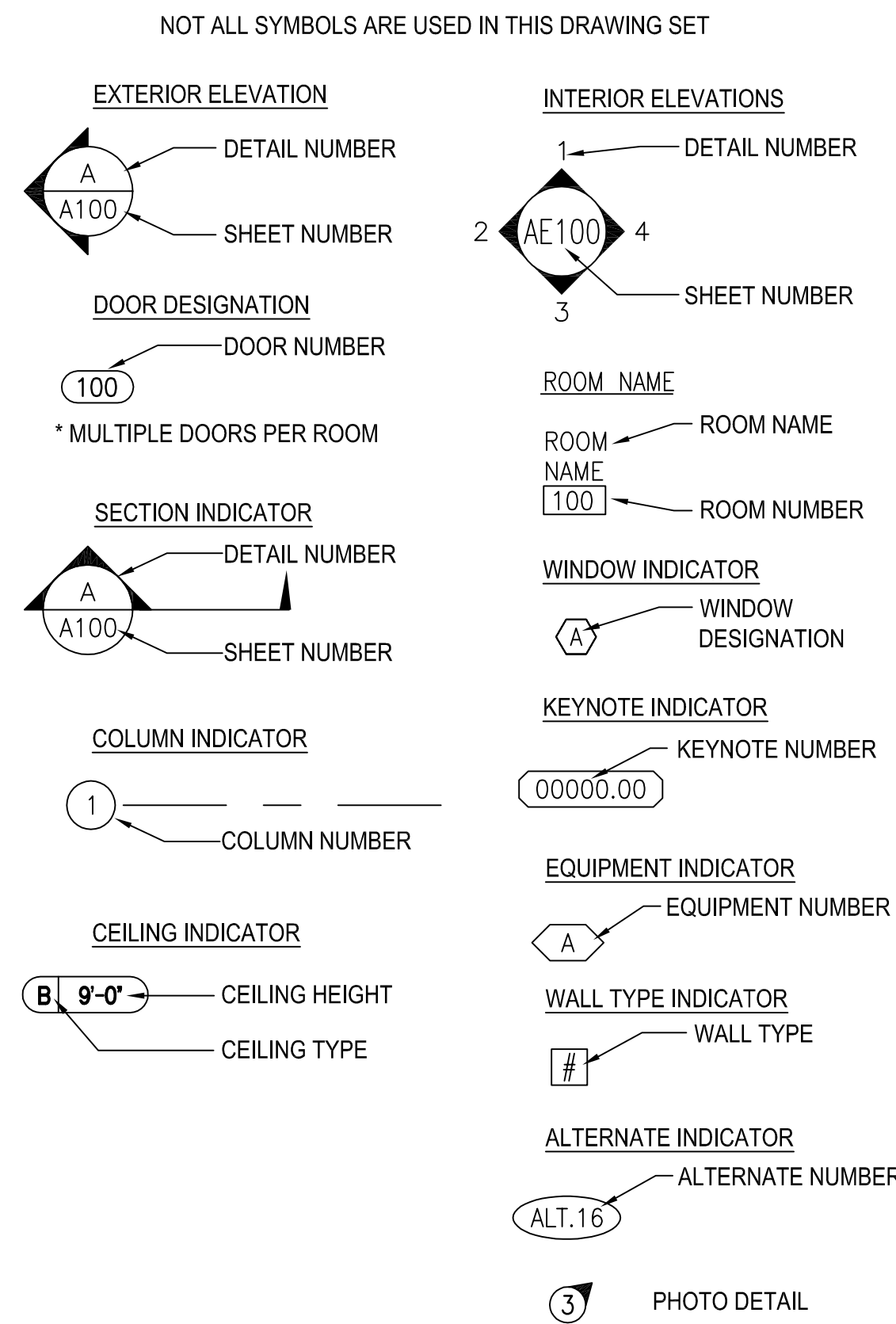


BUILDING CODES AND STANDARDS

- VA DESIGN MANUAL (PG-18-0)
- VA DESIGN, QUALITY, AND STANDARD ALERTS
- VA DESIGN GUIDES (PG-18-12)
- VA DESIGN AND CONSTRUCTION PROCEDURES (PG-18-3)
- PHYSICAL SECURITY DESIGN MANUAL FOR VA FACILITIES
- VA FIRE PROTECTION DESIGN MANUAL
- VA BARRIER FREE DESIGN GUIDE (PG-18-3)
- VA SIGNAGE DESIGN GUIDE
- VA PARKING DESIGN GUIDE
- NFPA 101: LIFE SAFETY CODE
- NFPA 13: STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
- NFPA 70: NATIONAL ELECTRICAL CODE
- ASHRAE 62.1: VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY
- ASHRAE 90.1: ENERGY STANDARD FOR BUILDINGS EXCEPT LOW RISE RESIDENTIAL BUILDINGS
- VA NATIONAL CAD STANDARD APPLICATION GUIDE
- NFPA NATIONAL FIRE CODES (EXCEPT NFPA 5000 & 900)
- VA SEISMIC DESIGN REQUIREMENTS, H-18-8
- OSHA STANDARDS
- BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, AMERICAN CONCRETE INSTITUTE AND COMMENTARY (ACI 318)
- EPA 2005
- VA MASTER SPECIFICATIONS
- NEC NATIONAL ELECTRICAL CODE 2011.
- VA SUSTAINABLE DESIGN MANUAL
- INTERNATIONAL MECHANICAL CODE (IMC)

SYMBOLS LEGEND



INFECTIOUS CONTROL NOTES-DURING PROJECT CONSTRUCTION

- ISOLATE HVAC SYSTEM IN AREA WHERE WORK IS TO BE DONE TO PREVENT CONTAMINATION OF DUCT SYSTEM.
- COMPLETE ALL CRITICAL BARRIERS I.E. SHEETROCK TO SEAL AREA FROM NON-WORK AREA OR IMPLEMENT CONTROL CUBE METHOD (CART WITH FIRE RETARDANT PLASTIC COVERING AND SEALED CONNECTION TO WORK SITE WITH HEPA VACUUM PRIOR TO VACUUMING PRIOR TO EXIT) BEFORE CONSTRUCTION BEGINS.
- BARRIER SYSTEMS: THE AREA SHOULD BE ISOLATED, AS THE PROJECT REQUIRES. PROJECTS THAT PRODUCE MODERATE TO HIGH LEVELS OF DUST REQUIRE RIGID, DUST-PROOF, BARRIER WALLS (E.G., DRYWALL) WITH CAULKED SEAMS FOR A TIGHT SEAL EXTENDING FLOOR TO CEILING. SEAL OFF AND BLOCK RETURN AIR VENTS IF RIGID BARRIERS ARE USED FOR CONTAINMENT. LARGE DUSTY PROJECTS NEED AN ENTRY VESTIBULE FOR CLOTHING CHANGES AND TOOL STORAGE AND TIGHT SEALS SHOULD BE MAINTAINED AT THE FULL PERIMETER OF WALLS AND WALL PENETRATIONS. AN INTERIM FIRE RETARDANT PLASTIC DUST BARRIER (MINIMUM 4-MIL) MAY BE REQUIRED TO PROTECT THE AREA WHILE THE RIGID IMPERVIOUS BARRIER IS BEING CONSTRUCTED. ANY DUST SHALL BE IMMEDIATELY CLEANED IF TRACKED OUTSIDE OF THE CONSTRUCTION BARRIER. UPON COMPLETION OF THE CONSTRUCTION PROJECT DUST BARRIERS SHALL BE REMOVED CAREFULLY TO MINIMIZE SPREADING OF DUST AND THE CONTRACTOR SHALL HAVE TEMPORARY DUST PROTECTION IN PLACE BEFORE REMOVAL OF A PERMANENT BARRIER. CONTRACTOR PERSONNEL SHALL MONITOR AND PERFORM BARRIER MAINTENANCE AND BE EDUCATED TO NOTICE SIMPLE CLUES SUCH AS ACCUMULATIONS OF VISIBLE DUST EVIDENCED BY FOOTPRINTS, OPENED DOORS/WINDOWS EVIDENCED BY PRESENCE OF INSECTS AND FLIES, WET CEILING TILES, ETC.
- TRAFFIC CONTROL: DESIGNATED ENTRY AND EXIT PROCEDURES SHALL BE DEFINED. EGRESS PATHS SHOULD BE FREE OF DEBRIS; DESIGNATED ELEVATORS SHOULD BE USED DURING SCHEDULED TIMES; AND ONLY AUTHORIZED PERSONNEL SHOULD BE ALLOWED TO ENTER THE CONSTRUCTION ZONE. SIGNAGE SHOULD DIRECT PEDESTRIAN TRAFFIC AWAY FROM THE CONSTRUCTION AREA AND MATERIALS.
- MAINTAIN NEGATIVE AIR PRESSURE WITHIN WORK SPACE, BY DISCHARGING AIR TO EXTERIOR OF BUILDING. CONTRACTOR MAY USE TEMPORARY FAN THAT HAS A HEPA FILTER WITH DISCHARGE TO EXTERIOR SPACE OUTSIDE MECHANICAL ROOM.
- SEAL ALL HOLES, PIPES, CONDUITS, PENETRATIONS OR PUNCTURES WITHIN ENVELOPE OF WORK AREA IN APPROPRIATE MANNER.
- DO NOT REMOVE CONSTRUCTION BARRIERS FROM WORK AREA UNTIL COMPLETED PROJECT IS SIGNED OFF BY ENGINEER AND VA'S INFECTION CONTROL DEPARTMENT, AND THOROUGHLY CLEANED BY VA'S ENVIRONMENTAL SERVICES DEPARTMENT.
- PROVIDE DUST "STICKY" MAT ENTRANCE/EXIT OF CONSTRUCTION AREA AND REPLACE OR CLEAN WHEN NO LONGER EFFECTIVE.
- KEEP AREA BROOM CLEAN AND REMOVE DEBRIS DAILY IN MANNER/PATH AS NOTED.
- REMOVE BARRIER MATERIAL CAREFULLY TO MINIMIZE SPREADING OF DIRT AND DEBRIS ASSOCIATED WITH CONSTRUCTION.
- DEMOLITION DEBRIS: CONSTRUCTION WASTE DEBRIS SHOULD BE REMOVED IN CARTS WITH TIGHTLY FITTED COVERS, USING DESIGNATED TRAFFIC ROUTES. CARTS & WHEELS ARE TO BE KEPT CLEAN. EFFORTS SHOULD BE MADE TO MINIMIZE USE OF ELEVATORS WITH AN EMPHASIS ON TRANSPORT DURING THE LOWEST PERIOD OF ACTIVITY. DEBRIS SHOULD BE REMOVED DAILY AND AT TIMES SPECIFIED BY THE VAMC. FILTERS SHOULD BE BAGGED AND SEALED BEFORE BEING TRANSPORTED OUT OF THE CONSTRUCTION AREA. THE CONTRACTOR SHALL NOT HAUL DEBRIS THROUGH PATIENT-CARE AREAS WITHOUT PRIOR APPROVAL OF THE VAMC.
- COVER TRANSPORT RECEPTACLES OR CARTS, TAPE COVERING UNLESS SOLID LID.
- VACUUM WORK AREA WITH HEPA FILTERED VACUUM.
- WET MOP WORK AREA WITH DISINFECTANT.
- REMOVE ISOLATION OF HVAC SYSTEMS IN AREAS WHERE WORK IS BEING PERFORMED.
- WIPE CASEWORK AND HORIZONTAL SURFACES AT COMPLETION OF PROJECT.
- AIR SYSTEM FLOW: DETERMINE WHETHER THE CONSTRUCTION AREA USES FRESHOUTSIDE OR RETICULATED AIR; FILTERS SHOULD BE ADDED OR RETURN VENTS COVERED AS NEEDED WITH FILTER MATERIAL OR PLASTIC. AIR MUST FLOW FROM CLEAN TO DIRTY AREAS.
- NEGATIVE AIR PRESSURE: THE AIR WITHIN THE CONSTRUCTION AREA MUST BE NEGATIVE WITH RESPECT TO SURROUNDING AREAS AND WITH NO DISRUPTION OF AIR SYSTEMS OF ADJACENT AREAS. USE OF THE NEGATIVE AIR PRESSURE SYSTEM WITHIN THE ENCLOSURE TO REMOVE DUST SHOULD PASS AIR THROUGH AN INDUSTRIAL GRADE, PORTABLE HEPA FILTER CAPABLE OF FILTRATION RATES OF 300-800 CUBIC FEET PER MINUTE (FT<sup>3</sup>/MIN), OR EXHAUST AIR DIRECTLY TO THE OUTSIDE IF APPROVED BY VAMC. IF EXHAUST MUST BE TIED INTO A RE-CIRCULATED AIR SYSTEM, A PRE-FILTER AND HEPA FILTER SHOULD BE USED BEFORE EXHAUST TO PREVENT CONTAMINATION OF THE DUCTS. CONTRACTOR SHALL PROVIDE AND INSTALL AN INSTRUMENT PROVING THAT NEGATIVE PRESSURE RELATIONSHIP IS BEING MAINTAINED - SEE SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR WINDOW & TRIM REMOVAL AND RE-INSTALLATION FOR NEG AIR INSTALLATION.
- ADJACENT AREAS: THE STATUS OF SEALED PENETRATIONS AND INTACT CEILING SHOULD BE VERIFIED DAILY.
- AIR EXCHANGE RATES AND PRESSURE RELATIONSHIPS: VAMC AND/OR CONTRACTOR WILL VERIFY AND MAINTAIN PROPER RATES IN CRITICAL AREAS NEAR CONSTRUCTION ACTIVITY AND ENSURE AIR IS NOT BEING RE-CIRCULATED WITHOUT FILTRATION FROM THE CONSTRUCTION AREA ELSEWHERE. VAMC WILL MAKE DETERMINATION ON PROVIDING FOR THE ACCOUNTABILITY AND FREQUENCY OF TESTING AIR PRESSURE THROUGHOUT THE PROJECT.

OPERATIONAL TEST

- 19.3 OPERATIONAL TEST
- 19.3.1 - FIRE DAMPERS. AFTER THE INSTALLATION OF A DAMPER IS COMPLETED, AN OPERATIONAL TEST SHALL BE CONDUCTED.
- 19.3.1.1 - THE DAMPER SHALL FULLY CLOSE FROM THE OPEN POSITION.
- 19.3.1.4 - THE OPERATIONAL TEST SHALL VERIFY THAT THERE ARE NO OBSTRUCTIONS TO THE OPERATION OF THE DAMPER.
- 19.3.1.5 - THE OPERATIONAL TEST SHALL VERIFY THAT THERE IS FULL AND UNOBSTRUCTED ACCESS TO THE FIRE DAMPER AND ALL LISTED COMPONENTS.
- 19.3.1.6 - ALL INDICATING DEVICES SHALL BE VERIFIED TO WORK AND REPORT TO THE INTENDED LOCATIONS.
- 19.3.1.7 - THE FUSIBLE LINK OPERATING TEMPERATURE SHALL BE IN ACCORDANCE WITH NFPA 90A, STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTILATING SYSTEMS, AND ANSULV 33, STANDARD FOR HEAT RESPONSIVE LINKS FOR FIRE-PROTECTION SERVICES, TEMPERATURE CLASSIFICATIONS AND RATINGS.
- 19.3.2.1 - TEST SHALL DETERMINE THAT THE SYSTEM HAS BEEN INSTALLED AND FUNCTIONS AS INTENDED.
- 19.3.2.2 - THE OPERATIONAL TEST SHALL BE CONDUCTED UNDER NON FIRE HVAC AIRFLOW CONDITIONS, AS WELL AS STATIC FLOW CONDITIONS.
- 19.3.2.3 - THE OPERATIONAL TEST SHALL VERIFY THAT THERE ARE NO OBSTRUCTIONS TO THE OPERATION OF THE DYNAMIC FIRE DAMPER.
- 19.3.2.4 - THE OPERATIONAL TEST SHALL VERIFY THAT THERE IS FULL AND UNOBSTRUCTED ACCESS TO THE DYNAMIC FIRE DAMPER AND ALL LISTED COMPONENTS.
- 19.3.2.5 - ALL INDICATING DEVICES SHALL BE VERIFIED TO WORK AND REPORT TO THE INTENDED LOCATION.
- 19.3.3 - INSPECTION. FOLLOWING COMPLETION OF THE TEST, A VISUAL INSPECTION SHALL BE MADE OF THE ASSEMBLY TO ENSURE NO OBSTRUCTIONS HAVE BEEN INTRODUCED.
- 19.3.4 - DOCUMENTATION. ALL INSPECTIONS AND TESTING SHALL BE DOCUMENTED, INDICATING THE LOCATION OF THE FIRE DAMPER, DATE(S) OF INSPECTIONS, NAME OF INSPECTION, AND DEFICIENCIES DISCOVERED. THE DOCUMENTATION SHALL HAVE A SPACE TO INDICATE WHEN AND HOW THE DEFICIENCIES WERE CORRECTED.

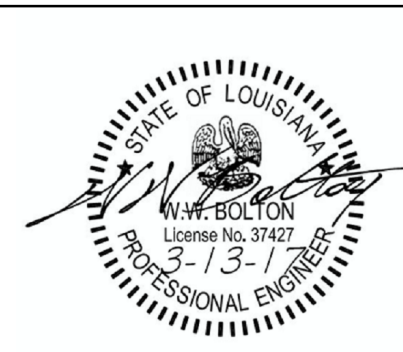
STANDARD ABBREVIATIONS

<b>A</b> A.C. AIR CONDITIONED A.H.U. AIR HANDLING UNIT ALT. ALTERNATIVE ALUM. ALUMINUM A.O. ACCESS OPENING APPROX. APPROXIMATELY ARCH. ARCHITECTURAL ACMU ARCHITECTURAL CONC. MASONRY UNIT ACT ACOUSTIC CEILING TILE AV AUDIO VISUAL	<b>B</b> BD. BOARD BLDG. BUILDING BM. BEAM BOT. BOTTOM BRG. BEARING BOC BOTTOM OF CURB (ELEVATION)	<b>C</b> CABT. CABINET CAP. CAPACITY CCTV CLOSED CIRCUIT TV C.A. CEILING DIFFUSER CEM. CEMENT	<b>D</b> DET. DETAIL DEST. DESTINATION DIA. DIAMETER DIFF. DIFFUSER DIM. DIMENSION DN DOWN DR. DRAIN DS DOWN SPOUT DWGs DRAWING(S)	<b>E</b> EA. EACH E.F. EXHAUST FAN ELEV. ELEVATION ELEC. ELECTRICAL EQUIP. EQUIPMENT EWC ELECTRIC WATER COOLER EXH. EXHAUST EXP. JT. EXPANSION JOINT EL. EXTERIOR EXIST. EXISTING	<b>F</b> F.A. FIRE ALARM F.D. FLOOR DRAIN F.E. FIRE EXTINGUISHER F.E.C. FIRE EXTINGUISHER CABINET FIN. FINISH FL. FLOOR F.O. FACE OF FR. FRAME FT. FOOT, FEET FTG. FOOTING	<b>G</b> GA. GAGE GAL. GALLON GALV. GALVANIZED GFGI GOVERNMENT FURNISHED/GOVERNMENT INSTALLED GL. GLASS GND. GROUND GOV'T GOVERNMENT G.P.H. GALLONS/HOUR G.P.M. GALLONS/MINUTE GR. GRILLE G.B. GYPSUM BOARD	<b>H</b> HB HOSE BIBB H.C. HOLLOW CORE HEWC HANDICAPPED ELECTRICAL WATER COOLER HT. HEIGHT H.M. HOLLOW METAL HM/INSUL HOLLOW METAL INSULATED DOOR HR. HOUR HTG. HEATING HTR. HEATER HW HOT WATER	<b>I</b> IN. INCHES INSUL. INSULATION INT. INTERIOR J J.B. JUNCTION BOX JCT. JUNCTION JT. JOINT L LB., # POUND L.P. LIGHTING PANEL LTG. LIGHTING	<b>M</b> MAINT. MAINTENANCE MAX. MAXIMUM MECH. MECHANICAL MTL. METAL MIN. MINIMUM MISC. MISCELLANEOUS M.O. MASONRY OPENING M.T. METAL THRESHOLD MTD. MOUNTED MTG. MOUNTING	<b>N</b> N.A. NOT APPLICABLE N.I.C. NOT IN CONTACT NO. NUMBER NOM. NOMINAL NTS NOT TO SCALE O O.A. OUTSIDE AIR O.D. OUTSIDE DIAMETER O.F.I. OWNER FURNISH CONTRACTOR INSTALL O.F.O.I. OWNER FURNISH OWNER INSTALL OH. OVERHEAD OPNG. OPENING	<b>P</b> PART. PARTITION PEMB PRE-ENGINEERED MANUFACTURED BUILDING PL. PLATE PLBG. PLUMBING PLWD. PLYWOOD PNL. PANEL PRES. PRESSURE PSF POUNDS/SQUARE FOOT PSI POUNDS/SQUARE INCH PT. PRESSURE TREATED	<b>Q</b> QTR. QUARTER R R.A. RETURN AIR RAD. RADIUS RCP REFLECTED CEILING PLAN RD. ROUND REC'D RECESSED RECP. RECEPTACLE REINF. REINFORCING REQ. REQUIRED RM. ROOM S SAB SOUND ATTENUATION BLANKET S.A. SUPPLY AIR SCH. SCHEDULE S.D. SOAP DISPENSER SECT. SECTION SHT. SHEET S.J. SLIP JOINT SPEC. SPECIFICATIONS SQ. FT. SQUARE FEET STL. STEEL STOR. STORAGE SS SANITARY SEWER	<b>STRUCT. SUSP. SUSPENDED</b> T T.R.A. THERMOSTAT U. TELEPHONE THD. THRESHOLD TOIL. TOILET TYP. TYPICAL TOC TOP OF CURB (ELEVATION) U UNK. UNKNOWN UNO UNLESS NOTED OTHERWISE UNK DEST UNKNOWN DESTINATION V V.T. VINYL TILE VENT. VENTILATION VERT. VERTICAL VCP VITRIFIED CLAY PIPE VIF VERIFY IN FIELD W W. WITH WD. WOOD
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100% SUBMISSION

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Drawing Title

LEGENDS, SYMBOLS AND ABBREVIATIONS

Project Title

IMPROVE FIRE DAMPER ACCESS  
OVERTON BROOKS VA MEDICAL  
CENTER

Location

SHREVEPORT, LA

Date

03/10/17

Drawn

MV

Checked

MDF

Project Number

667-16-105

Building Number

G1002

Drawing Number

Dwg. 2 of 13

Office of  
Construction and  
Facilities  
Management

