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## Autocad 2d electrical drawings for practice pdf

Practice is the key to learning any software and AutoCAD is no exception. If you have the basic knowledge of AutoCAD and you want to now practice with real world and practical AutoCAD drawings then this exercise is for you. This first practice exercise is intended for beginner. It is extracted from Source Cad comprehensive course – Learn AutoCAD with real 2D & 3D drawings. This practical exercise course has 60 video lessons of AutoCAD 2D and 3D drawings from variety of disciplines (architecture, mechanical, civil, electrical etc). It also comes with fully dimensioned companion practice eBook for extra guidance. Please note, some of the links in this blog are affiliate links. Refer to our affiliate disclaimer for more details.Special thanks to Jaiprakash Pandey, founder of Source Cad, who provided this complimentary exercise, exclusive to our email subscribers only. Hope you learn heaps from it.For more advanced users, you may want to check out our previous post, where we explore solid and surfacing tools such as LOFT, TORUS , SPHERE, SLICE and PRESSPULL to Draw a 3D speaker in AutoCAD.Let's get started then. Below is the dimension of the knob that you will be drawing and the Step by Step video tutorial. In this exercise, you will use 2D tool such as CONSTRUCTION LINE, FILLET, OFFSET, DIMRADIUS.You can also download the printable PDF & the final drawing in dwg here.Happy practicing!!!!If you like this exercise, go ahead and check out the rest of the course – Learn Autocad with real 2D & 3D drawing course.Door knob PerimeterStep by step video tutorial NOTE: To open DWG. files, you need the AutoCad Program. You can also view the CAD drawings using Voloview. Netscape users-right click on AutoCad icon and select "Save Target As" to save to your computer and then open. The PDF files open with Adobe Acrobat. Fire Protection | Civil | Architectural | Structural | Mechanical | Electrical | Instrumentation & Control | Fire Protection (Chapter 2) Drawing Number Sheet Rev. PDF CAD Title Date ST-D4010-1 1 2 Sprinkler System Riser Detail -Wet Pipe [temporarily withdrawn; contact POC for latest draft] 9/8/04 ST-D4010-1 2 2 Sprinkler System Riser Detail - Wet Pipe (Transportable) [temporarily withdrawn; contact POC for latest draft] 9/8/04 ST-D4010-1 3 2 Sprinkler System Riser Detail - Pre-Action [temporarily withdrawn; contact POC for latest draft] 9/8/04 ST-D4010-1 4 2 Sprinkler System Riser Detail - Dry Pipe [temporarily withdrawn; contact POC for latest draft] 9/8/04 ST-D4010-1 5 2 Sprinkler System Riser Detail - Deluge [temporarily withdrawn; contact POC for latest draft] 9/8/04 ST-D4010-1 6 2 Sprinkler System Riser Detail - Backflow Preventer/Design Notes [temporarily withdrawn; contact POC for latest draft] 9/8/04 Top of page Drawing Number Sheet Rev. PDF CAD Title Date ROADWAYS ST-G2010-1 1 4 Typical Road Sections 08/4/16 ST-G2010-1 2 2 Typical Parking Lot Sections 08/4/16 ST-G2010-2 1 3 Curb & Gutter 08/4/16 PARKING LOTS ST-G2020-1 1 4 Parking Layout 08/4/16 ST-G2020-1 2 4 Parking Layout (Accessible and Motorcycle) 12/08/20 PEDESTRIAN & BICYCLE FACILITIES ST-G2030-1 1 4 Sidewalk 08/4/16 SITE DEVELOPMENT ST-G2040-1 1 5 Security Fence / Typical Fence 08/18/16 ST-G2040-1 2 4 Security Fence / Pedestrian Gate 08/18/16 ST-G2040-1 3 4 Security Fence / Vehicle Gate 08/18/16 ST-G2040-1 4 4 Security Fence / Gate Latching 08/18/16 ST-G2040-1 5 4 Security Fence / Hill Side Fence 08/18/16 ST-G2040-1 6 4 Security Fence / Embankment Fence 08/18/16 ST-G2040-1 7 4 Security Fence / Top of Embankment 08/18/16 ST-G2040-1 8 4 Security Fence / Bottom of Embankment 08/18/16 ST-G2040-1 9 4 Security Fence / Fence Manproofing 08/18/16 ST-G2040-2 1 3 Fence - Smooth 3-strand Typical Details 08/18/16 ST-G2040-2 2 3 Fence- Smooth Strand Single or Double Gate 08/18/16 LOW IMPACT DEVELOPMENT ST-G20GEN-1 1 0 General Design Requirements 02/10/20 ST-G20GEN-1 2 0 Specific Design Requirements 02/10/20 ST-G20GEN-1 3 0 Specifications Standards 02/10/20 ST-G20GEN-1 4 0 Vegetated Swale 02/10/20 ST-G20GEN-1 5 0 Storm Water Channel 02/10/20 ST-G20GEN-1 6 0 One-Rock Check Dam 02/10/20 ST-G20GEN-1 7 0 Check Dam + V-Weir 02/10/20 ST-G20GEN-1 8 0 Zuni Bowl 02/10/20 ST-G20GEN-1 9 0 Sloped Dissipater 02/10/20 ST-G20GEN-1 10 0 Flowline Extender 02/10/20 ST-G20GEN-1 11 0 Level Spreader 02/10/20 ST-G20GEN-1 12 0 Filter Media 02/10/20 ST-G20GEN-1 13 0 Permeable Paving 02/10/20 ST-G20GEN-1 14 0 Bio-Retention Cell /Oxbow 02/10/20 ST-G20GEN-1 15 0 Control Basin 02/10/20 ST-G20GEN-1 16 0 Cistern 02/10/20 UTILITIES ST-G30GEN-1 1 5 Bollard [currently use is optional and not for use as a vehicle barrier] 08/4/16 ST-G30GEN-2 1 3 Thrust Blocks 08/4/16 ST-G30GEN-3 1 3 Tracer Wire 08/4/16 ST-G30GEN-4 1 4 Single Trench 08/4/16 ST-G30GEN-4 2 4 Earthwork Utilities Tables 08/4/16 POTABLE/FIRE PROTECTION WATER ST-G3010-1 1 3 Valve Box Detail -Gas/Water 09/01/16 ST-G3010-2 1 5 Water Piping Tie-In, 3/4" - 2" Copper Service Line 07/21/20 ST-G3010-2 2 5 Water Piping Tie-In, 4" - 12" Service Line 07/21/20 ST-G3010-3 1 3 Water Piping Shut-Off Valve, 4" - 12" Line Size 09/01/16 ST-G3010-3 2 3 Water Piping Shut-Off Valve, for Fire Line (PIV) 09/01/16 ST-G3010-4 1 4 Fire Hydrant, Gate Shut-Off Valve 09/01/16 ST-G3010-5 1 4 Sloping Pipe Anchor 09/01/16 ST-G3010-6 1 3 Water Valve Support 09/01/16 ST-G3010-7 1 0 Air Relief Valve (ARV) 05/05/21 SANITARY SEWER ST-G3020-1 1 3 Sanitary Sewer Manhole 09/01/16 ST-G3020-2 1 6 Exterior Sewer Lift Station 09/01/16 ST-G3020-2 2 6 Exterior Sewer Lift Station Plan 09/01/16 ST-G3020-2 3 6 Lift Station Concrete Wet/Dry Well 09/01/16 ST-G3020-2 4 6 Lift Station Electrical Detail 09/01/16 STORM WATER ST-G3030-1 1 2 Concrete Catch Basin 09/15/16 ST-G3030-2 1 2 Precast Concrete Catch Basin 09/15/16 ST-G3030-3 1 3 Man Hole 09/15/16 STEAM/CONDENSATE ST-G3040-1 1 4 Tie-In 09/15/16 ST-G3040-2 1 3 Site Steam Drip Leg 09/15/16 NATURAL GAS ST-G3060-1 1 2 Gas Piping Tie-In, Steel Service Line to Steel Main 09/15/16 ST-G3060-1 2 2 Gas Piping Tie-In, PE Service Line to Steel Main 09/15/16 ST-G3060-1 3 2 Gas Piping Tie-In, PE Service Line to PE Main 09/15/16 ST-G3060-2 1 3 Gas Regulator, Two Stage, Low Flow 09/15/16 ST-G3060-2 2 3 Gas Regulator, Single Stage, Low Flow 09/15/16 ST-G3060-2 4 3 Gas Regulator, Single Stage, High Flow 09/15/16 Top of page Drawing Number Sheet Rev. PDF CAD Title Date EXAMPLE DRAWINGS A-1000 - 1 Floor Plan of Record 06/27/16 A-1001 - 1 Floor Plan of Record 06/27/16 A-1010 - 1 Roof Plan of Record 06/27/16 A-1011 - 1 Roof Plan of Record 06/27/16 STANDARD DETAILS-G2040 EXTERIOR WAYFINDING ST-G2040-4 1 3 Tech area Identification Sign and Detail 08/16/18 ST-G2040-4 2 3 Facility Complex Identification Sign and Detail 08/16/18 ST-G2040-4 3 3 Division Identification Sign and Detail 08/16/18 ST-G2040-4 4 3 Pedestrian Directional Sign A 08/16/18 ST-G2040-4 5 3 Pedestrian Directional Sign B 08/16/18 ST-G2040-4 6 3 Freestanding Building Identification Sign and Detail 08/16/18 ST-G2040-4 7 3 On-Building Identification Letters and Detail 08/16/18 ST-G2040-4 8 3 Building Identification Plaques and Detail 08/16/18 ST-G2040-4 9 3 Sign Base Detail and Alternate 08/06/18 Top of page Drawing Number Sheet Rev. PDF CAD Title Date FOUNDATION SUPPORT SYSTEM FOR TEMPORARY TRAILERS ST-Z1052-1 1 2 Single Wide Trailer Requirements for In-Situ Soil 05/17/18 ST-Z1052-2 1 2 Foundation Support System for Temporary Trailers-double wide 06/28/18 ST-Z1052-3 1 0 Tie-down quantities Considering Topographic Factor 05/17/18 ST-Z1052-4 1 0 Tie-down quantities Considering Topographic Factor 06/28/18 METAL STAIRS ST-B1081-1 1 0 Metal Stairs - General Notes Optional Use [temporarily withdrawn] 04/18/12 ST-B1081-2 2 2 Metal Stairs - Detail Optional Use [temporarily withdrawn] 04/18/12 ST-B1081-3 3 0 Metal Stairs - Details Optional Use [temporarily withdrawn] 04/18/12 MOTOR CONTROL CENTER ANCHORAGE (INTERIOR) ST-D5020-3 1 1 General Notes 03/08/18 ST-D5020-3 2 1 MCC to Housekeeping Pad Anchorage 03/08/18 ST-D5020-3 3 1 Housekeeping Pad to Existing Slab Anchorage 03/08/18 NOTE: If the MCC is "unimportant (i.e., Ip = 1.0 per ASCE 7)" and being installed as part of a new- or existing-building project in which the seismic design of the building is based on SDC C, then the MCC is seismically exempt (per ASCE 7 para. 13.1.4) and compliance with the Std. Detail isn't required. WALL-MOUNTED EQUIPMENT ST-F1033-1 1 1 Notes 12/19/17 ST-F1033-2 2 1 Approved Enclosure List 12/19/17 ST-F1033-3 3 1 Wall-Mounted Equipment Details Small 12/19/17 ST-F1033-4 4 1 Wall-Mounted Equipment Details Large 12/19/17 Two Notes: (1) Hilti KB-TZ2 may be directly substituted for TZ in this detail. (2) In the event that SDC C applies and the enclosure(s) in question is "unimportant (i.e., Ip = 1.0 per ASCE 7)," then the enclosure(s) is seismically exempt (per ASCE 7 para. 13.1.4) and only gravity loads need be considered. Top of page Drawing Number Sheet Rev. PDF CAD Title Date EXAMPLE DRAWINGS --- M6010 - 0 See Chapter 8 I&C Series D6000 Series Process Flow Diagram Tower, DI, and Chilled Water M6020 - 0 Process Flow Diagram HVAC M6030 - 0 Piping & Instrumentation Diagram HVAC M6040 - 0 Piping & Instrumentation Diagram Tower, DI, & Chilled Water M6041 - 0 Piping & Instrumentation Diagram Tower, DI, & Chilled Water M6042 - 0 Piping & Instrumentation Diagram Tower, DI, & Chilled Water P&ID LEGEND --- ST6999(M0001) 1 1 P&ID Legend 09/30/04 ST6999(M0002) 2 1 P&ID Legend 09/30/04 ST6999(M0003) 3 1 P&ID Legend 09/30/04 NOISE/VIBRATION CONTROL --- ST-D10-30GEN-3 1 4 Pipe/Electrical Conduit Penetration 06/23/17 ST-D10-30GEN-3 2 4 Duct Penetration 06/23/17 ST-D10-30GEN-3 3 4 Duct Penetration with Silencer, Preferred 06/23/17 ST-D10-30GEN-3 4 4 Duct Penetration with Silencer, Alternative 06/23/17 BACKFLOW PREVENTER PIPING --- ST-D20GEN-1 1 4 Screwed Ends 06/23/17 ST-D20GEN-1 2 4 Flanged Ends 06/23/17 FREEZE PROTECTION --- ST-D20GEN-2 1 5 Water Piping 05/25/17 EMERGENCY SHOWER / EYE WASH --- ST-D2010-1 1 3 Safety Shower with Drench Hose 06/15/17 ST-D2010-1 2 4 Safety Shower with Eyewash 06/15/17 ST-D2010-1 3 4 Eyewash 06/15/17 ST-D2010-1 4 4 Design Notes 06/15/17 MISCELLANEOUS --- ST-D2020-1 1 2 Site/Building Water Component Diagram 06/23/17 WATER PRESSURE REDUCING VALVE (PRV) --- ST-D2020-2 1 4 Building Service 06/23/17 ST-D2020-2 2 4 Miscellaneous Service 06/23/17 COMPRESSOR AND AIR PIPING --- ST-D2090-1 1 4 Lubricated Compressor, Tank Mounted 06/15/17 ST-D2090-1 2 4 Oil-Less/Oil Free Compressor, Tank Mounted 06/15/17 ST-D2090-1 3 4 Lubricated Compressor, Remote Receiver 06/15/17 ST-D2090-1 4 4 Oil-Less/Oil Free Compressor, Remote Receiver 06/15/17 WATER TREATMENT SYSTEM --- ST-D30GEN-1 1 4 Open Cooling Tower Water Treatment Flow Diagram 06/29/18 ST-D30GEN-1 2 3 Open Cooling Tower Water Treatment Notes Schedule 06/29/17 WATER COIL PIPING --- ST-D30GEN-2 1 2 Chilled Water, Variable Flow, Fail to No Cooling 06/08/17 ST-D30GEN-2 2 2 Chilled Water, Variable Flow, Fail to Full Cooling 06/08/17 ST-D30GEN-2 4 2 Hot Water, Variable Flow, Fail to No Heat 06/08/17 ST-D30GEN-2 5 2 Hot Water, Variable Flow, Fail to Full Heat 06/08/17 ST-D30GEN-2 6 3 Hydronic Preheat Coil Piping Detail Constant Flow, Fail to Full Heat 04/08/19 ST-D30GEN-2 7 2 Hot Water, On/Off Flow, Fan to Full Heat 06/08/17 ST-D30GEN-2 8 2 Hot Water, On/Off Flow, Fail to Full Heat 06/08/17 ST-D30GEN-2 9 2 Chilled/Hot Water, Stacked Coils 06/08/17 STEAM COIL PIPING --- ST-D30GEN-3 1 2 Variable Flow through Coil, Fail to Full Heat 06/08/17 ST-D30GEN-3 2 2 On/Off Flow through Preheat Coil 06/08/17 ST-D30GEN-3 3 1 Canceled 5/24/17 Pneumatic Control Diagram for Preheat Coil 8/14/03 ST-D30GEN-3 4 1 Canceled 6/8/17 Design Notes 8/14/03 PUMP PIPING --- ST-D30GEN-4 1 3 End Suction 06/29/17 ST-D30GEN-4 2 3 End Suction with Suction Diffuser 06/29/17 ST-D30GEN-4 3 3 Horizontal Split Case, Double Suction 06/29/17 ST-D30GEN-4 4 3 Vertical Split Case, Double Suction 06/29/17 ST-D30GEN-4 5 3 Vertical Split Case, Double Suction with Suction Diffuser 06/29/17 ST-D30GEN-4 6 3 In-Line 06/29/17 ST-D30GEN-4 7 3 Design Notes 06/29/17 STEAM UNIT HEATER --- ST-D3020-1 1 2 Steam Unit Heater Piping 06/29/17 ST-D3020-1 2 2 Design Notes and Controls 06/29/17 STEAM PRESSURE REDUCING VALVE (PRV) STATION --- ST-D3020-2 1 4 Steam (PRV) Station-Single Stage 06/23/17 ST-D3020-2 2 4 Steam (PRV) Station-Dual Stage 06/23/17 ST-D3020-2 3 4 Steam (PRV) Station-Parallel 06/23/17 ST-D3020-2 4 3 Design Notes 06/23/17 STEAM DRIP LEG --- ST-D3020-3 1 2 Along Piping Run 06/23/17 ST-D3020-3 2 2 End of Main 06/23/17 STEAM DRIP PAN ELBOW --- ST-D3020-4 1 2 2" - 8" Size 06/23/17 ST-D3020-4 2 2 1/2" - 1 1/2" Size 06/23/17 COOLING TOWER & CHILLER --- ST-D3030-1 1 1 Component Diagram 6/15/17 INSTRUMENTATION --- ST-D3040-1 1 4 Fume Hood Air Flow Indicator 07/06/17 ST-D3040-5 1 4 Air Filter Pressure Drop Gauge 07/06/17 DUCTWORK/STACKS --- ST-D3040-2 1 4 Return Air Sound Trap 07/06/17 ST-D3040-3 1 3 Stackhead 07/06/17 ST-D3040-6 1 2 HVAC Unit Security Bars Installation Detail 07/06/17 ST-D3040-6 2 2 HVAC Unit Security Bars SCIF 07/06/17 FILTER TRAIN (Bag-Out Housing) --- ST6700 1 1 Single Stage HEPA Filter 05/11/17 ST6700 2 1 Two Stage HEPA Filters 05/11/17 ST6700 3 1 Two Stage HEPA Filters with Chemical Absorbers 05/11/17 ST6700 4 1 Design Notes 05/11/17 Top of page Drawing Number Sheet Rev. PDF CAD Title Date EXAMPLE DRAWINGS D5000-1 1 3 Legend and General Notes 03/11/19 D5000-2 1 2 One-line Diagram 09/25/06 D5000-3 1 2 Circuit Designations and Electrical Identification Diagram 09/25/06 D5010-1 1 2 Grounding System Diagram 09/25/06 D5010-2 1 2 Isolated Ground System Diagram 09/25/06 D5010-3 1 0 Meter Connection Diagram 08/14/08 D5010-4 1 0 Meter Installation Detail 08/14/08 D5010-5 1 0 Meter Connection Diagram 08/14/08 D5020-1 1 2 Motor Control Wiring Diagrams 09/25/06 D5030-1 1 3 Telephone-Data Equipment Closets and Riser Diagram 08/14/08 D5030-2 1 2 Fire Alarm Riser Diagram 09/25/06 D5030-3 1 0 Small Building Telecommunications Room Plan and Telecommunications Riser Diagram 09/03/08 STANDARD DRAWINGS ST-D5020-2 1 0 Haworth Furniture Wiring Diagram 04/27/21 ST-D5020-2 2 0 Herman Miller Furniture Wiring Diagram 04/27/21 ST-D5020-3, Motor Control Center Anchorage (under Structural above) ST-G4010-01 1 0 115V Transmission Line-Tangent Structure 401 (0°) Detail 09/30/02 ST-G4010-02 1 0 115V Transmission Line-Tangent Structure 402 (1°- 4°) Detail 09/30/02 ST-G4010-02 2 0 Tangent Structure 402 (1°-4°) - Bill of Materials 09/30/02 ST-G4010-03 1 0 115KV Transmission Line - Tangent Structure 403 (4°-8°) Detail 09/30/02 ST-G4010-03 2 0 Tangent Structure 403 (4°-8°) - Bill of Materials 09/30/02 ST-G4010-04 1 0 115KV Transmission Line - Tangent Structure 404 (9°-24°) Detail 09/30/02 ST-G4010-04 2 0 Tangent Structure 404 (9°-24°) - Bill of Materials 09/30/02 ST-G4010-05 1 0 115KV Transmission Line - Tangent Structure 405 (25°- 45°) Detail 09/30/02 ST-G4010-05 2 0 Tangent Structure 405 (25°-45°) - Bill of Materials 09/30/02 ST-G4010-06 1 0 115KV Transmission Line - Tangent Structure 406 (45°-68°) Detail 09/30/02 ST-G4010-06 2 0 Tangent Structure 406 (45°-68°) - Bill of Materials 09/30/02 ST-G4010-07 1 0 115KV Transmission Line - Tangent Structure 408 (Extra Long Span) Detail 09/30/02 ST-G4010-08 1 0 115KV Transmission Line - Tangent Structure 409 Detail 09/30/02 ST-G4010-08 2 0 Tangent Structure 409 (Dead End) - Bill of Materials 09/30/02 ST-G4010-09 1 0 115KV Transmission Line - Tangent Structure 410 (0°-1°) Detail 09/30/02 ST-G4010-10 1 0 Distribution - 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Detail (6" slab, ½" dia, 3.25" embedment) isn't required for seismic but is appropriate if project desires to ensure adequate resistance against worst-case wind load; alternatively, if only resistance against Risk-Category-II wind load is desired, use of lesser slab/anchorage (4" slab, 3/8" dia, 2" embedment) is adequate. See ESM Ch. 5 Section II (r11 para. 1.1.A) guidance regarding such installations ST-G4010-39 1 0 Pad Mounted Equipment Protection and Barrier Pipe Details 09/25/06 Top of page Drawing Number Sheet Rev. PDF CAD Title Date EXAMPLES D-6000 1 0 HVAC Air Flow Diagram 09/28/06 D-6005 1 0 Technical Facility Process Flow Diagram 09/28/06 D-6010 1 0 Technical Facility HVAC Process & Instrumentation Diagram 09/28/06 D-6015 1 0 Office Building HVAC Process & Instrumentation Diagram 09/28/06 D-6020 1 0 Cooling Water Process Flow Diagram 09/28/06 D-6025 1 0 Cooling Water Process & Instrumentation Diagram 09/28/06 E-6050 - 0 Machine X Schematic Diagram 05/31/05 E-6055 - 0 Panel Component Arrangement Diagram 05/31/05 E-6060 - 0 CP-1 Connection Diagram 05/31/05 E-6061 - 0 CP-1 Door Connection Diagram 05/31/05 E-6065 - 0 CP-1 to TBX-1 Interconnection Diagram 05/31/05 E-6070 - 0 Field Device Interconnection Diagram 05/31/05 E-6075 - 0 PLC-1 Input and Output Diagram 05/31/05 P&ID LEGEND ST-6999 (M0001) 1 1 P&ID Legend 09/30/04 ST-6999 (M0002) 2 1 P&ID Legend 09/30/04 ST-6999 (M0003) 3 1 P&ID Legend 09/30/04 Top of page

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