

ABBREVIATIONS

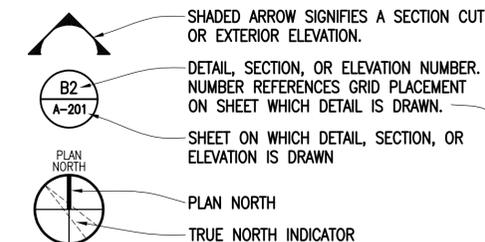
| | |
|-------|------------------------------------|
| AAV | AUTOMATIC AIR VENT |
| ACI | AMERICAN CONCRETE INSTITUTE |
| AFFF | AQUEOUS FILM FORMING FOAM |
| AFHE | AUTOMATED FUEL HANDLING EQUIPMENT |
| API | AMERICAN PETROLEUM INSTITUTE |
| ATG | AUTOMATIC TANK GAUGE |
| AWG | AMERICAN WIRE GAUGE |
| BBL | BARREL |
| BE | BOTH ENDS |
| BS | BASKET STRAINER |
| BS&W | BOTTOM SEDIMENT AND WATER |
| CB | CATCH BASIN |
| CL | CLASS |
| CFR | CODE OF FEDERAL REGULATIONS |
| COE | CORPS OF ENGINEERS |
| CP | CATHODIC PROTECTION |
| CS | CARBON STEEL |
| CU | COPPER |
| CV | CHECK VALVE |
| EFSO | EMERGENCY FUEL SHUT-OFF |
| DBB | DOUBLE BLOCK AND BLEED PLUG VALVE |
| DIA | DIAMETER |
| ECC | ECCENTRIC |
| ETC | ET CETERA |
| FCC | FEDERAL COMMUNICATIONS COMMISSION |
| FB | FLAT BAR |
| FML | FLEXIBLE MEMBRANE LINER |
| FOB | FLAT ON BOTTOM |
| FRP | FIBERGLASS REINFORCED PIPE |
| F/S | FILTER/SEPARATOR |
| FS | FLOW SWITCH |
| FSC | FUEL SAMPLE CONNECTOR |
| FSCV | FILTER SEPARATOR CONTROL VALVE |
| FT | FOOT OR FEET |
| GA | GAUGE |
| GAL | GALLON |
| GALV | GALVANIZED |
| GPM | GALLONS PER MINUTE |
| HHLA | HIGH-HIGH LEVEL ALARM |
| HHLS | HIGH-HIGH LEVEL SWITCH |
| HLA | HIGH LEVEL ALARM |
| HLS | HIGH LEVEL SWITCH |
| HLV | HIGH LIQUID LEVEL SHUT-OFF VALVE |
| HMWPE | HIGH MOLECULAR WEIGHT POLYETHYLENE |
| HPV | HIGH-POINT VENT |
| HS | HAND SWITCH |
| HSS | HOLLOW STRUCTURAL SECTION |

ABBREVIATIONS

| | |
|--------|---|
| ID | INNER DIAMETER |
| KBBL | THOUSAND BARREL |
| LB | ELBOW |
| LLA | LOW LEVEL ALARM |
| LLLA | LOW-LOW LEVEL ALARM |
| LLLS | LOW-LOW LEVEL SWITCH |
| LLS | LOW LEVEL SWITCH |
| LPD | LOW-POINT DRAIN |
| MAX | MAXIMUM |
| MAV | MANUAL AIR VENT |
| MIN | MINIMUM |
| MOV | MOTOR OPERATED VALVE |
| NFPA | NATIONAL FIRE PROTECTION AGENCY |
| NPT | NATIONAL PIPE THREAD |
| NTS | NOT TO SCALE |
| OC | ON CENTER |
| OD | OUTSIDE DIAMETER |
| OSHA | OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION |
| PDI | PRESSURE DIFFERENTIAL INDICATOR |
| PI | PRESSURE INDICATOR |
| PIV | POST INDICATOR VALVE |
| PLC | PROGRAMMABLE LOGIC CONTROLLER |
| PSI | POUNDS PER SQUARE INCH |
| PST | PRODUCT SAVER TANK |
| PVC | POLYVINYL CHLORIDE |
| QTY | QUANTITY |
| REQ'D | REQUIRED |
| SCH | SCHEDULE |
| SRV | SAFETY RELIEF VALVE |
| SS | STAINLESS STEEL |
| STD WT | STANDARD WEIGHT |
| SV | SOLENOID VALVE |
| THRD | THREAD |
| THWN | THERMOPLASTIC HIGH WATER-RESISTANT NYLON-COATED |
| TRV | THERMAL RELIEF VALVE |
| TYP | TYPICAL |
| UFC | UNIFIED FACILITIES CRITERIA |
| UFGS | UNIFIED FACILITIES GUIDE SPECIFICATIONS |
| UON | UNLESS OTHERWISE NOTED |
| WNF | WELD NECK FLANGE |
| XXS | DOUBLE EXTRA STRONG |
| ∅ | CENTERLINE |
| PL | PLATE |
| ⊙ | AT |
| W/ | WITH |

LEGEND

| | |
|--|--|
| | BALL VALVE |
| | CHECK VALVE |
| | CONTROL VALVE (IF PROVIDED, ARROW INDICATES INTEGRAL BYPASS RELIEF AND DIRECTION) |
| | DOUBLE BLOCK & BLEED VALVE (DBB) (IF PROVIDED, ARROW INDICATES INTEGRAL BYPASS RELIEF AND DIRECTION) |
| | BALL JOINT |
| | CAM TYPE CONNECTION WITH DUST PLUG/CAP |
| | MOTORIZED VALVE |
| | SLIP ON FLANGE (SO) |
| | WELD NECK FLANGE (WNF) |
| | WELD NECK FLANGE WITH BLIND FLANGE |
| | REDUCER |
| | UNION |
| | BASKET STRAINER |
| | PIPE CAP |
| | PUMP |
| | PIPE SECTION |
| | RELIEF VALVE |
| | JUNCTION BOX |
| | PERMANENT REFERENCE ELECTRODE |
| | NEW CATHODIC CABLE OR CONDUIT |
| | CONCRETE (SECTION) |
| | CONCRETE (PLAN) OR SAND |
| | GASKET OR NON-SHRINK GROUT |
| | EXISTING GRADE OR COMPACTED EARTH |
| | STEEL PLATE |



TITLE
SCALE: 1:10
SHEET(S) ON WHICH DETAIL, SECTION, OR ELEVATION IS CUT
SHEET ON WHICH DETAIL, SECTION, OR ELEVATION IS DRAWN

| | |
|---|--|
| | DATE |
| | DESCRIPTION |
| | SYN |
| | |
| NAVFAC <small>ENGINEERING & CONSULTING</small> <small>101 Boulder Springs Drive, Suite 100 Richmond, Virginia 23264</small> <small>804-682-3900 main 804-382-2001 fax</small> <small>www.brockenbrough.com</small> | |
| A/E INFO | |
| APPROVED | |
| FOR COMMANDER NAVFAC | |
| ACTIVITY | |
| XXXXX | |
| SATISFACTORY TO DATE DD/MM/YY | |
| DES MSO | DRW MHK |
| CHK | WVB |
| XXXX | |
| BRANCH MANAGER | |
| XX | |
| CHIEF ENG/ARCH | |
| XXX | |
| DATE | |
| OCTOBER 2011 | |
| DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND NAVAL FACILITIES ENGINEERING COMMAND ~ ATLANTIC NORFOLK, VIRGINIA UNIT CAPITAL IMPROVEMENTS | DOD STANDARD DESIGN # 78-24-27 ABOVEGROUND VERTICAL STEEL FUEL TANKS WITH FIXED ROOFS LEGEND & ABBREVIATIONS |
| SCALE: AS NOTED | |
| PROJECT NO.: | |
| CONSTR. CONTR. NO.: | |
| NAVFAC DRAWING NO.: | |
| SHEET 2 OF 38 | |
| G.02 | |
| <small>DRAWFORM REVISION: 10 MARCH 2009</small> | |

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