

BILL OF MATERIALS FOR VMS/VSLs SUPPORT STRUCTURE FABRICATION

| SUBASSEMBLY | ITEM NO. | ITEM DESCRIPTION | SOURCING INFORMATION |
|-----------------------------------|----------|--|--------------------------------------|
| 1.0 WALKWAY GRATING | | | |
| | 1.1 | STEEL GRATING (GALVANIZED) | MCNICHOLS SGW-125A-2 |
| | 1.2 | NUT INSERTS | MCMaster-CARR - 98005A330 |
| | 1.3 | SADDLE CLIPS | MCNICHOLS TYPE CB, STAINLESS STEEL |
| | 1.4 | BOLTS | MCMaster-CARR - 92196A331 |
| | 1.5 | STAINLESS STEEL LOCKING CABLES TIES | MCMaster-CARR - 6898K45 |
| 2.0 METAL FENCING | | | |
| | 2.1 | EXPANDED METAL FENCING (GALVANIZED) | AMICO - ASF 1.5-9R |
| | 2.2 | GALVANIZED WASHER | FASTENAL - 0189951 |
| | 2.3 | SPRING PLUNGER | MCMaster-CARR - 8691A18 |
| | 2.4 | SAFETY EDGING | (SEE NOTE 5) |
| | 2.5 | NUT INSERTS | MCMaster-CARR - 98005A180 |
| 3.0 ACCESS DOOR | | | |
| | 3.1 | WELD-ON HINGE | MCMaster-CARR - 3636A6 |
| | 3.2 | HANDLE (LOCKABLE, LADDER SIDE) | MCMaster-CARR - 1249A11 |
| 4.0 LADDER SYSTEM | | | |
| | 4.1 | HINGE | MCMaster-CARR - 1586A21 (SEE NOTE 4) |
| | 4.2 | FALCON SELF RETRACTING LIFELINE | MILLER - MP30SS/30FT (SEE NOTE 6) |
| | 4.3 | SAFETY GATE | MCMaster-CARR - 4073K62 |
| | 4.4 | NUT INSERTS | MCMaster-CARR - 98560A581 |
| | 4.5 | RUBBER BUMPER WITH THREADED STUD | MCMaster-CARR - 9541K11 |
| | 4.6 | EYENUT | MCMaster-CARR - 3019T18 |
| | 4.7 | ANCHOR BOLT | MCMaster-CARR - 97799A301 |
| 5.0 WIRE PULL HAND HOLES | | | |
| | 5.1 | CAST STAINLESS STEEL DECK PLATE, 4" DIA. | MARINE HARDWARE INC. - SSDP110144 |
| | 5.2 | 6" STAINLESS STEEL GROMMET | MCMaster-CARR - 4911K11 |
| 6.0 TRUSS CONNECTION | | | |
| | 6.1 | PIPE NIPPLE | MCMaster-CARR - 7727K351 |
| | 6.2 | NEOPRENE BEARING MATERIAL | MCMaster-CARR - 9013K37 |
| | 6.3 | 2" DIA. LOCK NUT | MCMaster-CARR - 44605K217 |
| | 6.4 | WASHER | MCMaster-CARR - 93550A130 |
| | 6.5 | CAST STAINLESS STEEL DECK PLATE, 5" DIA. | MARINE HARDWARE INC. - SSDP110244 |
| | 6.6 | PIN W/ RECESS NUTS | WECALL INC |
| 7.0 VMS/VSLs CONNECTIVITY | | | |
| | 7.1 | 2" WIRING HUBS | MCMaster-CARR - 7513K86 |
| 8.0 INTERIOR HAND RAILING | | | |
| | 8.1 | IRON HANDRAIL FITTING (GALVANIZED) | MCMaster-CARR - 4936T36/4936T19 |
| 9.0 EXTERIOR HAND RAILING | | | |
| | 9.1 | STAINLESS STEEL THREADED FLANGE | MCMaster-CARR - 44695K14 |
| | 9.2 | NUT INSERT | MCMaster-CARR - 98560A593 |
| | 9.3 | ALUMINUM THREADED PIPE POST | MCMaster-CARR - 5038K137 |
| | 9.4 | ALUMINUM PIPE RAIL | MCMaster-CARR - 5038K22 |
| | 9.5 | RAILING PIPE TEE (TOP RAIL) | MCMaster-CARR - 4698T16 |
| | 9.6 | RAILING PIPE ELBOW (TOP RAIL) | MCMaster-CARR - 4698T33 |
| | 9.7 | RAILING PIPE 3-OUTLET ELBOW (TOP RAIL) | MCMaster-CARR - 4698T113 |
| | 9.8 | RAILING PIPE ELBOW WITH THRU-HOLE (MID RAIL) | MCMaster-CARR - 4698T38 |
| | 9.9 | RAILING PIPE 2-PIECE ELBOW W/ THRU HOLE | MCMaster-CARR - 4698T75 |
| 10.0 SAFETY TIE OFF POINT | | | |
| | 10.1 | EYE NUTS | MCMaster-CARR - 3061T25 |
| | 10.2 | THREADED CONNECTORS | MCMaster-CARR - 8947T27 |
| | 10.3 | FLANGE HEX BOLT | MCMaster-CARR - 92316A628 |
| | 10.4 | HOIST RING | MCMaster-CARR - 3046T75 |
| 11.0 PULLEY BLOCK ASSEMBLY | | | |
| | 11.1 | STAINLESS STEEL PULLEY BLOCK | MCMaster-CARR - 31625T41 |
| | 11.2 | SHACKLES | MCMaster-CARR - 35895T116 |
| | 11.3 | REMOVABLE FIGURE-EIGHT CONNECTION LINK | MCMaster-CARR - 1119N11 |

BILL OF MATERIALS NOTES:

- THE BILL OF MATERIALS PRESENTED ON THIS SHEET IS PROVIDED FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE ITEMS SHOWN IN THIS BILL OF MATERIALS ARE CORRECT AND CURRENTLY AVAILABLE. SHOULD ANY OF THE SHOWN ITEMS NOT CONFORM TO THE DESIGN INTENT OF THESE STANDARD DRAWINGS OR THE STANDARD SPECIFICATIONS, THE ENGINEER SHALL BE CONTACTED IMMEDIATELY. SHOULD ANY OF THE SHOWN ITEMS BECOME NO LONGER AVAILABLE FROM THE LISTED SOURCES, THE AUTHORITY SHALL BE CONTACTED IMMEDIATELY FOR SELECTION OF AN APPROVED ALTERNATE ITEM.
- SHOP DRAWINGS AND/OR MANUFACTURER'S DETAILED LITERATURE SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL FOR ALL ITEMS PRIOR TO INSTALLATION IN ACCORDANCE WITH THE SPECIFICATIONS.
- EQUIVALENT ITEMS MAY BE SUBSTITUTED FOR ANY OF THE LISTED ITEMS WITH THE ENGINEER'S REVIEW AND APPROVAL. ALL MATERIAL, STRENGTH, AND SAFETY PROPERTIES OF THE SUBSTITUTED ITEMS SHALL BE EQUAL TO OR GREATER THAN THOSE OF THE LIST. THE OPEN AREA RATIO OF ANY SUBSTITUTED FENCING OR WALKWAY GRATING SHALL BE EQUAL TO OR LESS THAN THOSE LISTED.
- PROVIDE CORROSION RESISTANT MASTER LOCK MODEL NO. 1175LHSS, OR APPROVED EQUAL.
- SAFETY EDGING SHALL BE A FABRICATED U-SHAPE WITH TWO EQUAL OUTSTANDING LEGS 2" TALL WRAPPED AROUND THE EXPANDED METAL MESH, AND A 0.295" OPENING BETWEEN THE OUTSTANDING LEGS. SAFETY EDGING SHALL BE FABRICATED FROM GALVANIZED 18GA (0.0475") HOT ROLLED STEEL AND SECURED TO THE EXPANDED METAL MESH USING SS 1/4" DIA. x 1" LONG MACHINE SCREWS WITH NUT AND WASHER.
- IN ITS FINAL CONDITION, THE LIFELINE SHALL BE FULLY RETRACTED INTO ITS HOUSING WITH A TAG LINE EXTENDED FROM THE HOOK ON THE LINE DOWN TO THE EYENUT IN THE PEDESTAL. FOR EXPOSED PEDESTAL HEIGHTS ABOVE 12'-0", PROVIDE A 50 FT MODEL LIFELINE.
- CONTACT INFORMATION FOR THE LISTED MANUFACTURERS:

AMICO (ALABAMA METAL INDUSTRIES CORPORATION)
 3245 FAYETTE AVENUE
 BIRMINGHAM, AL 35208
 1-800-366-2642
 WWW.AMICOSECURITY.COM

MCMaster-CARR
 200 NEW CANTON WAY
 ROBBINSVILLE, NJ 08691
 1-609-689-3000
 WWW.MCMaster.COM

MARINE HARDWARE INC.
 P.O. BOX 3099
 REDMOND, WA. 98073
 425-883-0651
 WWW.MARINEHARDWARE.COM

MILLER FALL PROTECTION
 1345 15th STREET
 FRANKLIN, PA 16323
 1-800-873-5242
 WWW.MILLERFALLPROTECTION.COM

MCNICHOLS CO.
 2502 NORTH ROCKY POINT DRIVE, SUITE 950
 TAMPA, FL 33607-1421
 1-800-237-3820
 WWW.MCNICHOLS.COM

FASTENAL
 2001 THEURER BLVD.
 WINONA, MN 55987
 1-507-454-5374
 WWW.FASTENAL.COM

WECALL INC
 P.O. BOX 39
 64 PENNIMAN RD
 ORWELL, OH 44072
 1-440-499-6450
 WWW.WECALLINC.COM



| APP. NO. | DATE | REVISION |
|----------|-------|---|
| 6 | 10/23 | REVISED AND ADDED ITEMS, REVISED SOURCING INFO AND UPDATED VENDOR LISTING |
| 5 | 4/16 | REVISED ITEM |
| 4 | 3/14 | REVISED AND ADDED ITEMS |
| 3 | 3/11 | REVISED AND ADDED ITEMS AND SOURCING INFO |
| 2 | 3/10 | ADDED ITEMS AND REVISED SOURCING INFO |
| 1 | 4/09 | UPDATE VENDOR LISTING |
| 0 | 8/08 | ORIGINAL DRAWING |

| | |
|--|---------------------------------------|
| NEW JERSEY TURNPIKE AUTHORITY NEW JERSEY TURNPIKE | |
| OVERHEAD SPAN VMS/VSLs SUPPORT STRUCTURES BILL OF MATERIALS | |
| OFFICE OF THE CHIEF ENGINEER NEW JERSEY TURNPIKE AUTHORITY WOODBRIDGE NEW JERSEY | 2008 STANDARD DRAWING VM-10 |