NOTES CONTINUED REV. DATE DCN# DRAWING TREE # (5) SCRIBE ENGRAVE OR MECHANICALLY STAMP REVISION ON NOTED SURFACE FOLLOWED ON THI NEXT LINE BY A THREE DIGIT SERIAL NUMBER. SERIA 11. ALL MATERIAL IS TO BE VIRGIN MATERIAL (i.e. NO WELD REPAIRS, PLUGS OR RECYCLED MATERIAL), NO REPAIRS SHALL BE MADE UNLESS APPROVED IN ADVANCE, AND IN WRITING, BY LIGO LABORATORY. REFER TO LIGO-E0900364. NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. USE .07* HIGH CHARACTERS. EXAMPLE: 12. SURFACE FINISH TO BE AS-PROCESSED FROM MILL/SUPPLIER, FREE FROM SCRATCHES OR GOUGES. APPROXIMATE WEIGHT = X.XXX LB. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH, USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED. REFER TO LIGO-E0900364 GOLD METALIZED OVER ELECTRO-LESS NICKEL SELECTIVELY METALIZED PLAIN PEEK ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364. 15. BEND RADIUS: UNLESS OTHERWISE NOTED, THE BEND RADIUS SHOULD BE THE MINIMUM REQUIRED TO FORM WITHOUT CRACKING OR REQUIRING ADDITIONAL WORK WHEN FORMING. IN PARTICULAR IF SHEET METAL IS TO BE PORCELAIN COATED, THE BEND RADIUS SHALL BE A MINIMUM OF .12° OUTSIDE RADIUS OF BEND UNLESS 108 IN ALL HELI-COIL HOLES TO BE PREPARED ACCORDING TO EMHART HELI-COIL PRODUCT CATALOG, HC2000, REV 4 NOT TO SCALE CONNECTOR CONNECTOR NOTES 9, 10, 13 and 14 DO NOT APPLY TO THIS PART **CONNECTOR CONNECTOR** J1 J2 1.600in 40.64mm 1.600in 40.64mm ø 0.125 VENT HOLE NO MOUNTING FLANGE MOUNTING FLANGE (NO EARS) V25A-108 CABLE ASSEMBLY CIRCUIT SUMMARY V-DB25 F/S1-108-DB25 F/S1 **PIN 25** PLAIN PEEK **PIN 25** COND.-TWISTED LENGTH **CABLE NAME** FROM TO PIN 1 WIRE ID PAIR #1-72 x 0.45" FILLISTER HEAD 25 COND. V25A-108 (12 TOTAL) 108 in. Conn. J1 Conn. J2 STAINLESS STEEL MACHINE SCREW CABLE **GOLD METALIZED OVER** #1-72 x 0.45" ELECTRO-LESS NICKEL SELECTIVELY METALIZED PIN 1, SHELL FILLISTER HEAD STAINLESS STEEL x4 LOCATIONS NOT METALIZED BETWEEN PINS MACHINE SCREW W2 108 in PIN 2 PIN 2 0.125in. [3.18mm] 0.109in 2.77mm x4 LOCATIONS W14 108 in PIN 14 PIN 14 \emptyset 0.315in [8mm]#4-40 x 0.305" \emptyset 0.315in[8mm] W3 108 in PIN 3 PIN 3 0.311in 7.90mm 0.109in[2.77mm STAINLESS STEEL 0.497in[12.62mm \emptyset 0.275in 6.99mm W15 PIN 15 **PIN 15** \emptyset 0.275in[6.99mm] HEX SOCKET HEAD PIN 4 PIN 4 W4 108 in \emptyset 0.225in[5.72mm] VENTED JACKSCREW \emptyset 0.225in [5.72mm] W16 PIN 16 PIN 16 108 in x 2 LOCATIONS W5 108 in 0.112in 2.84mm 0.311in 7.90mm W17 PIN 17 PIN 17 0.497in 12.62mm PIN 6 PIN 6 W6 108 in _0.112in[2.84mm] W18 PIN 18 **PIN 18** 1.675in 42.56mm 108 in 0.050in[1.27mm] 0.050in 1.27mm W7 PIN 7 PIN 7 1.852in 47.04mm 1.852in 47.04mm 0.375in 9.53mm 0.375in 9.53mm W19 PIN 19 PIN 19 #4-40 x 0.305" 2.165in. [54.99mm] W8 PIN 8 PIN 8 108 in 2.165in 54.99mm 0.648in 16.46mm STAINLESS STEEL 0.648in[16.46mm W20 108 in PIN 20 HEX SOCKET HEAD 2.40in 61.02mm 1.673in 42.49mm VENTED JACKSCREW 1.673in[42.49mm W9 2.665in 67.69mm x 2 LOCATIONS W21 W10 108 in PIN 10 PIN 10 ITEM NO. PART NUMBER DESCRIPTION QTY. LENGTH PIN 22 PIN 22 W22 108 in PIN 11 1 DB25 FEMALE CONNECTOR (J1) FOR UHV (PEEK) 2 DB25 CONNECTOR BACKSHELL (NO EARS) FOR UHV (STAINLESS) WITH Ø0.225" i.d. PORT OR EQUIVALENT W12 PIN 12 108 in W24 108 in 3 DB25 FEMALE CONNECTOR (J2) FOR UHV (GOLD METALIZED PEEK) PIN 13 (TS0148-25CG20BS1-225F) OR EQUIVALENT ** 4 DB25 CONNECTOR BACKSHELL (WITH EARS) FOR UHV (STAINLESS) WITH Ø0.225" i.d. PORT COONER WIRE #CZ1105 25 COND. (12 TWISTED PAIR + 1 WIRE + SHIELD) 28AWG CABLE WITH (6) COPPER BRAID (SHIELD) AND (7) PEEK OVERBRAID * THE LENGTH SHOWN IN THIS LIST IS THE LENGTH OF THE CABLE BETWEEN THE TWO CONNECTORS. ADD ADDITIONAL LENGTH AS NECESSARY FOR THE INTERNAL WIRING OF THE CONNECTORS AND STRIP (5) 6 CONTINENTAL PART #24x3x40B0 COPPER BRAID - CONTINENTAL CORDAGE PART #24x3x40BC 108in PEEK BRAID - PART #6759 MANUFACTURED WITH ZEUS 0.016" BLACK PEEK DRAWN MONOFILAMENT \bigcirc GLENAIR CLAMPING GLENAIR #600-052 STANDARD BRAID CLAMP or BAND-IT PART # A10086 (0.240" WIDE) ("BAG OF 100" #A10089) GLENAIR # 600-052 or BAND-IT # A10086 8 ISC TRANSMON QPD CABLE BANDS #600-052 **VACUUM FLANGE TO SEISMIC TABLE** * NOTE: USE WHATEVER LENGTH IS NECESSARY FOR THE INTERNAL WIRING OF THE CONNECTORS AND STRIP LENGTH TO ACHIEVE THE CORRECT OVERALL LENGTHS. (BAND-IT #A10086) V-DB25 F/S1-108-DB25 F/S1 COPPER BRAID PEEK OVERBRAID CONDUCTOR (SHIELD) ** NOTE: SEE THE "TICOR CONNECTOR PART NUMBER BUILDER" DCC#D1000219 FOR DETAILS ON THIS PART NUMBER STANDARD USE FOR THIS CABLE 25 CONDUCTOR 28 AWG SUBSYSTEM AIR/VAC STANDARD USE NOTES: (UNLESS OTHERWISE SPECIFIED) 12 TWISTED PAIR + 1 WIRE A. MATERIAL: a. J1 CONNECTOR SHELL - PEEK VICTREX 450GL30. b. J2 CONNECTOR SHELL - GOLD OVER ELECTRO-LESS NICKEL SELECTIVELY METALIZED PEEK VICTREX 450GL30. FLANGE TO TOP CABLE QPD FOR TRANSMON ISC IN-VAC C. BACKSHELLS - STAINLESS STEEL WITH VENT HOLE. d. CONTACTS - BERYLLIUM COPPER ALLOY C17300, 0.000050 MIN. GOLD OVER NICKEL. HAM3 FLANGE D3-3C2 to CB3, ISC QPDs e. HARDWARE: STAINLESS STEEL, PASSIVATED. f. PEEK BRAID - PEEK VICTREX GRADE TDS-450CA30 CARBON LOADED - SUPPLIED BY LIGO. CABLE 25 COND. 28 AWG, (65 STRD 46 AWG) WITH PFA INSULATION COONER WIRE #CZ1105. LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY 1. INTERPRET DRAWING PER ASME Y14.5-1994.
2. REMOVE ALL SHARP EDGES. .005-.015. FOR MACHINED PARTS. ROUND ALL EDGES APPROXIMATILEY R.O.2 FOR SHEET METAL PARTS.

PARTIES. PAR 12 TWISTED PAIRS (4 TO 5 TWISTS PER INCH) + 1 WIRE.

OVERALL 40AWG COPPER BRAID 50% COVERAGE - SUPPLIED BY LIGO. CUSTOM CABLE SPECIFICATION V25A-108 DIMENSIONS ARE IN OVERALL PEEK BRAID MIN. 50% COVERAGE. DO NOT SCALE FROM DRAWING OLERANCES: PESIGNER R. ABBOTT JUL/02/2012 SIZE DWG. NO ISC D1101658 DRAFTER E. BROWN **v**4 XXX ± CHECKER C. CONNECTORS WILL BE SUPPLIED WITH HARDWARE. SCREWS SHOULD BE THE PROPER LENGTH FOR MATING. ANGULAR± Material <not specified> uinch SCALE: 1:1 PROJECTION: