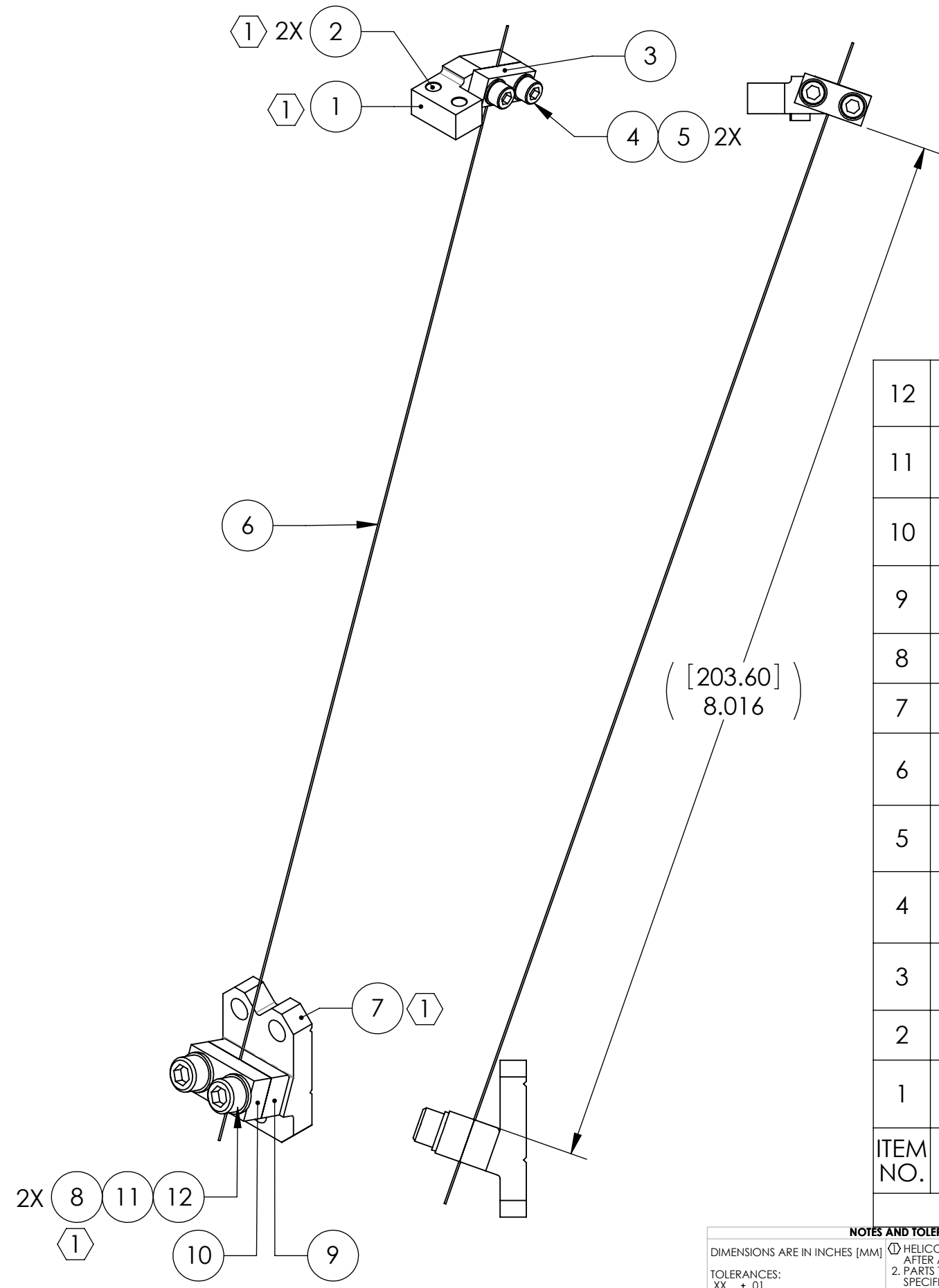


D070393\_Advanced\_LIGO\_SUS\_HLTS\_Intermediate\_Wire\_Assembly, PART PDM REV: V1-001, DRAWING PDM REV: V2-001

REV.	DATE	DCN #	DRAWING TREE #
v1	24 JUN 2009	E0900176	E080191
v2	09 DEC 2010	E1000849	E080191
v3	24 OCT 2011	E1101053	E080191



ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	REQ	SPARE	TOTAL
12	-	WASHER, FLAT, VENTED, #8 (U-C COMPONENTS P/N WFV-08 OR EQUIVALENT)	300 SSSL	2	1	3
11	-	SCREW, SOCKET HEAD CAP, #8-32 UNC-2A X 0.625 LONG	300 SSSL	2	1	3
10	D070406	LOWER CLAMP, INT. WIRE, OUTSIDE	304, 316 OR 302 SSSL	1	0	1
9	D070405	LOWER CLAMP, INT. WIRE, INSIDE	304, 316 OR 302 SSSL	1	0	1
8	1185-2EN164	HELICOIL, #8-32 X 0.164 LONG (1)	NITRONIC 60	2	2	4
7	D030149	BREAKOFF, INT. WIRE (1)	6061-T6 Al	1	0	1
6	-	INTERMEDIATE WIRE (Ø 0.0134)	STEEL MUSIC WIRE	A/R	0	0
5	-	WASHER, FLAT, VENTED, #4 (U-C COMPONENTS P/N WFV-04 OR EQUIVALENT)	300 SSSL	2	1	3
4	-	SCREW, SOCKET HEAD CAP, #4-40 UNC-2A X 0.375 LONG	Ag-PLATED 300 SSSL	2	1	3
3	D070394	UPPER CLAMP, INT. WIRE, OUTSIDE	304, 316 OR 302 SSSL	1	0	1
2	1185-04EN224	HELICOIL, #4-40 X 0.224 LONG (1)	NITRONIC 60	2	2	4
1	D070585	UPPER CLAMP, INT. WIRE, INSIDE (1)	304, 316 OR 302 SSSL	1	0	1

PARTS LIST

**NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)**

1. HELICOILS TO BE INSTALLED INTO ITEM NO. 1 AND ITEM NO. 7 BY LIGO AFTER ALL PARTS ARE CLEANED AND BAKED.

2. PARTS TO BE ASSEMBLED ACCORDING TO E080208 HLTS ASSEMBLY SPECIFICATION, USING D0900630 HLTS INTERMEDIATE WIRE JIG.

3. MASS TO SUSPEND DURING ASSEMBLY: 6.092 kg.

DIMENSIONS ARE IN INCHES [MM]

TOLERANCES:  
 .XX ± .01  
 .XXX ± .005  
 ANGULAR ± 0.5°

CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		<b>PART NAME</b> INTERMEDIATE WIRE ASSY	
<b>SYSTEM</b> ADVANCED LIGO	<b>SUB-SYSTEM</b> SUS	<b>DESIGNER</b> D. BRIDGES	<b>DATE</b> 10 OCT 2008
<b>MATERIAL</b> N/A	<b>FINISH</b> N/A µinch	<b>DRAFTER</b> D. BRIDGES	<b>DATE</b> 21 OCT 2011
<b>NEXT ASSY</b> HLTS SUSPENSION ASSY	<b>CHECKER</b> B. MOORE	<b>DATE</b> 24 OCT 2011	<b>REV.</b> v3

**SCALE:** 1:1    **PROJECTION:**    **SHEET 1 OF 1**