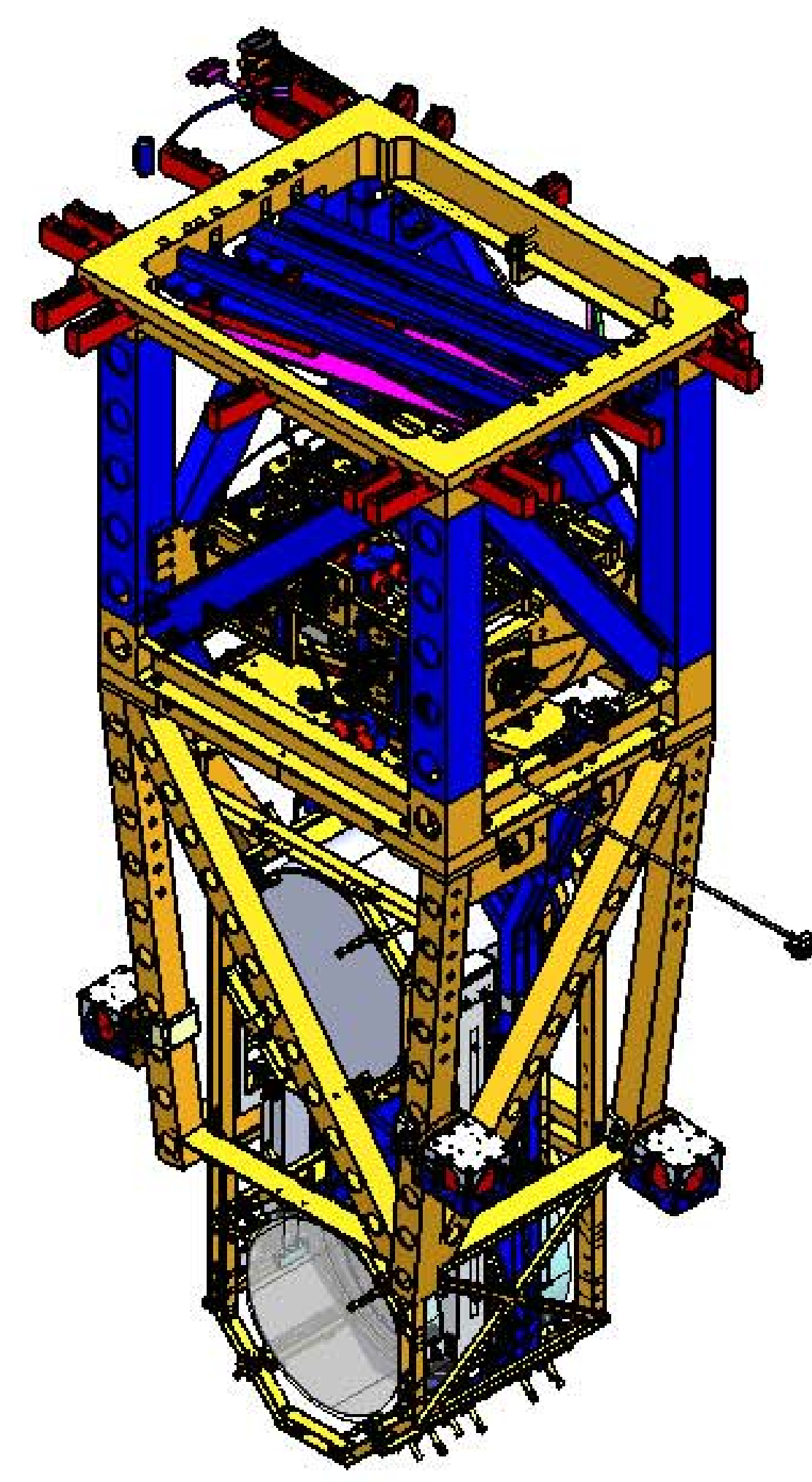
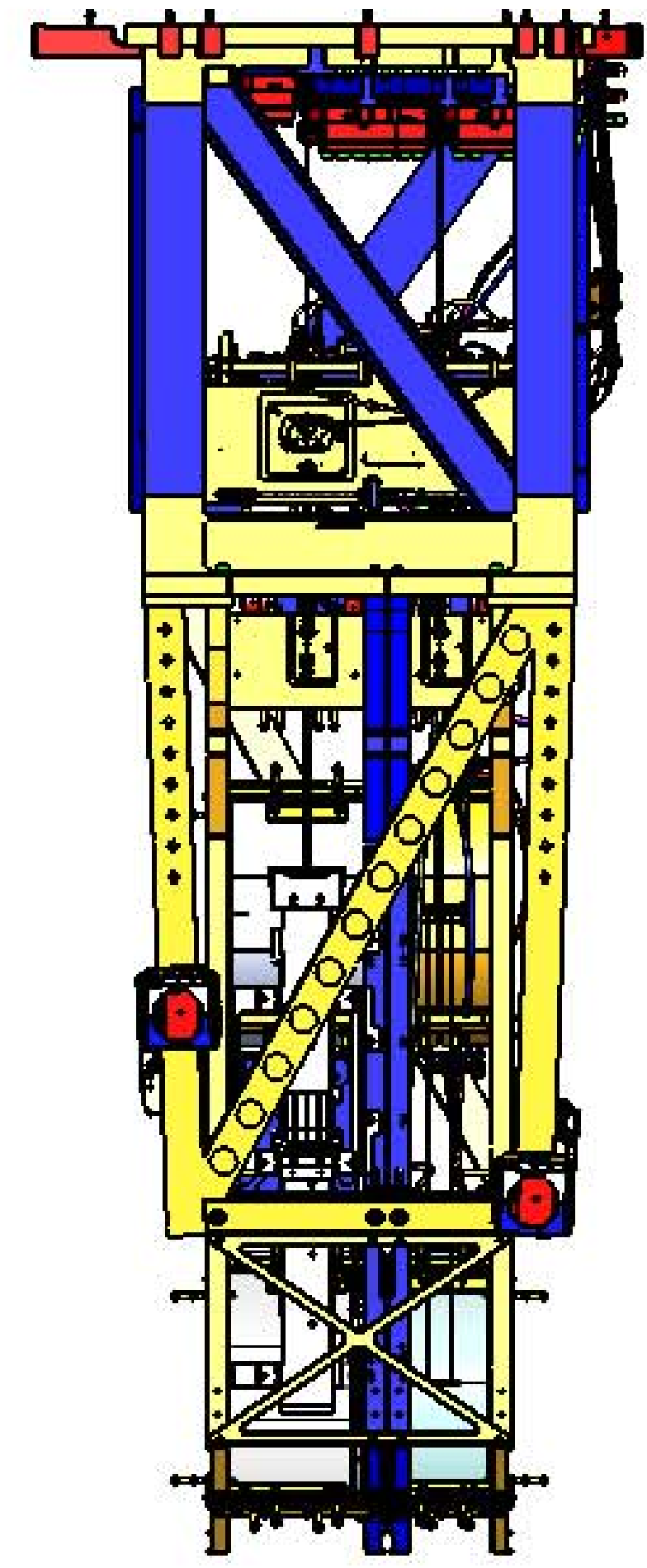
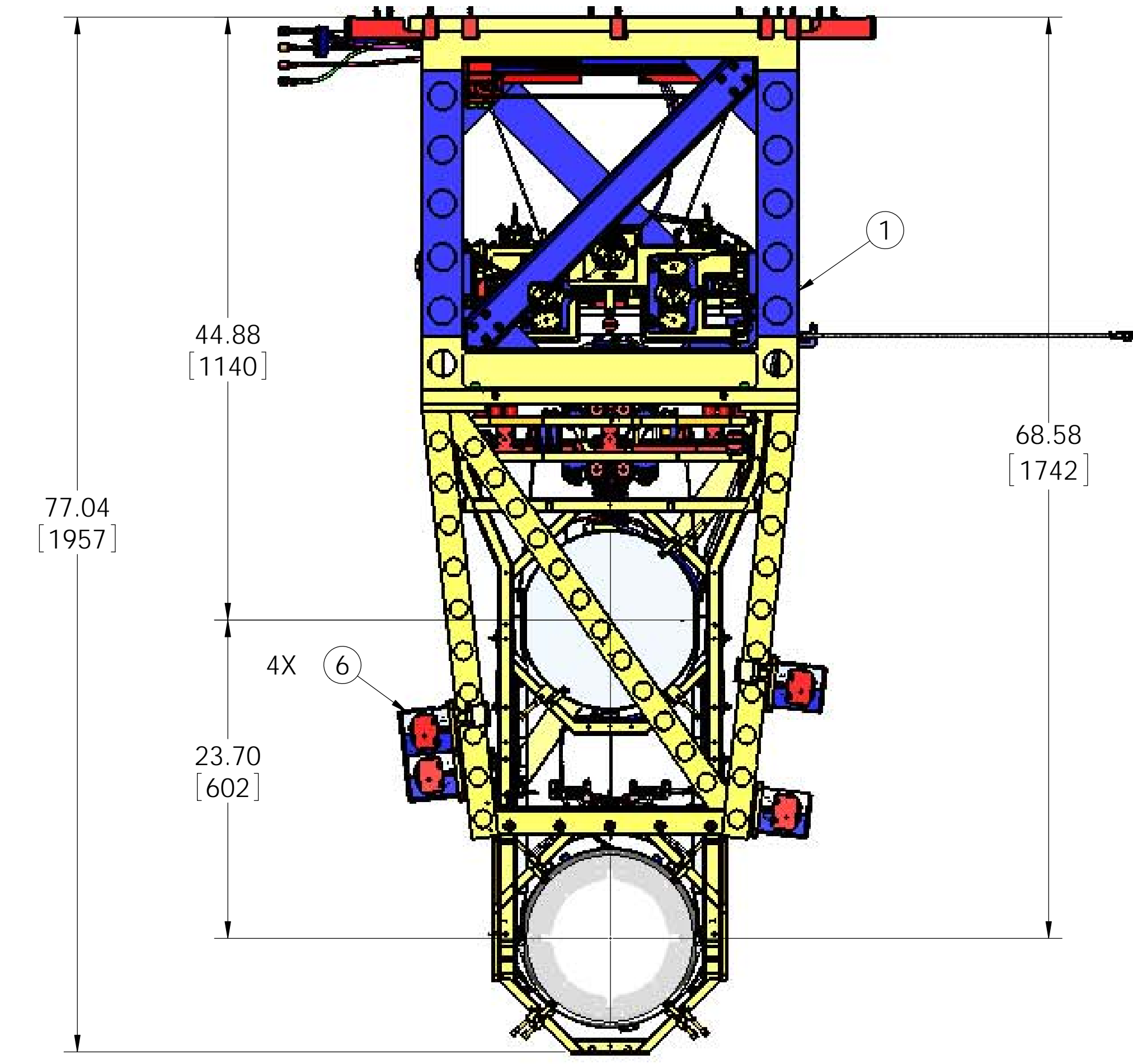
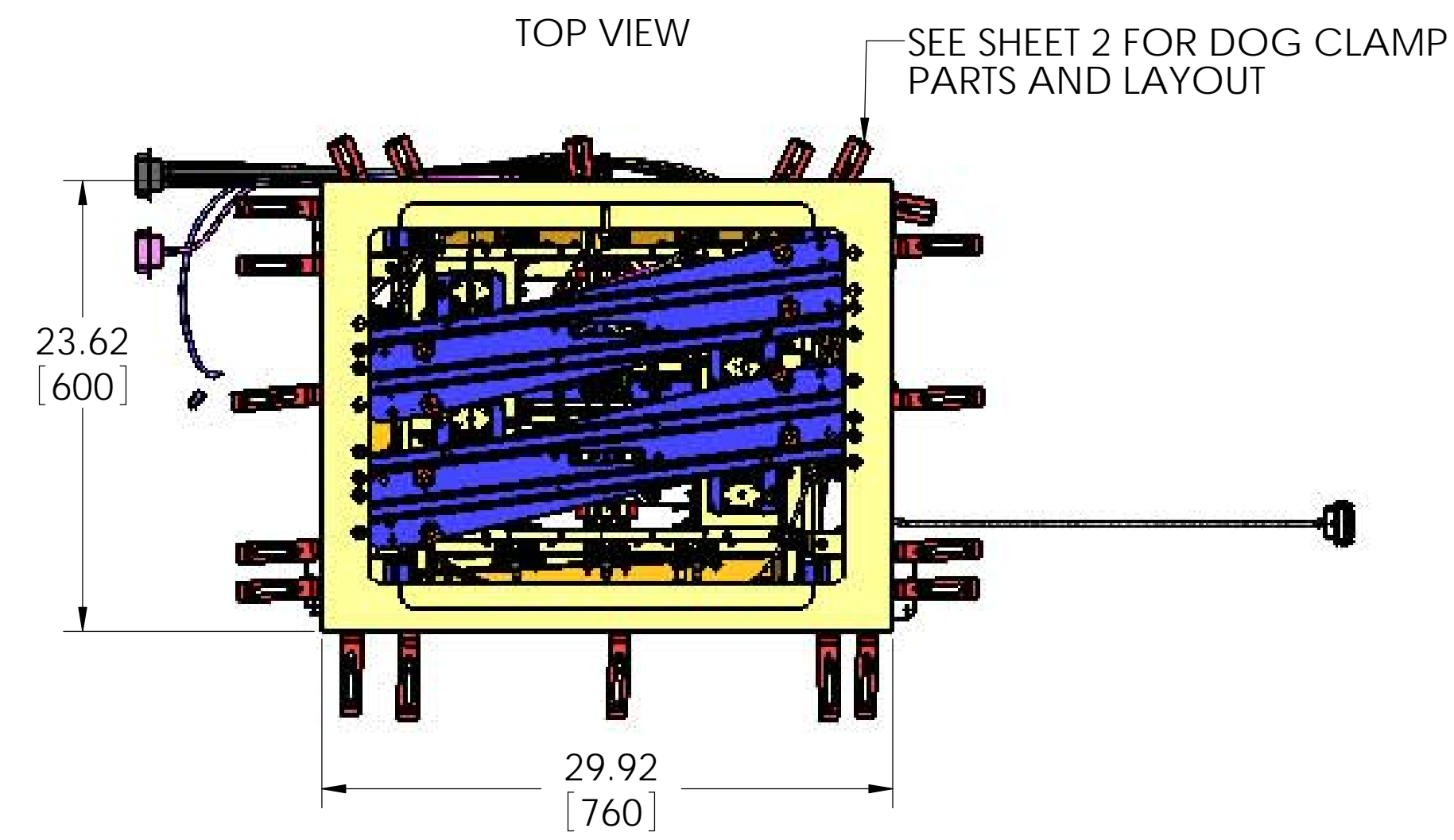


REV.	DATE	DCN #	DRAWING TREE #
v5	21 NOV 2011	-	-
v6	12 DEC 2011	-	-
-	-	-	-



ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	QTY.
6	D1002424	VIBRATION ABSORBER ASSEMBLY	N/A	4
5	3AJ1.500-12CL	3/8-16 X 1.50 12PT BOLT	450 SSSL	20
4	D1100785-620	ALIGO, SUS, QUAD, NITRONIC WASHER, FLAT	NITRONIC 60	20
3	D1003190	aLIGO QUAD SHORTER DOG CLAMP	304 SSSL	6
2	D070056	aLIGO, SUS, QUAD N-PTYPE, QUAD DOG CLAMP	304 SSSL	14
1	D0901346	aLIGO SUS QUAD ASSEMBLY TOP LEVEL TD-1084-090		1

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

- INTERPRET DRAWING PER ASME Y14.5-1994.
- REMOVE ALL SHARP EDGES, .005-.015, FOR MACHINED PARTS. ROUND ALL EDGES APPROXIMATELY R.02 FOR SHEET METAL PARTS.
- DO NOT SCALE FROM DRAWING.
- ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.

DIMENSIONS ARE IN INCHES
TOLERANCES:
.XX ± .03
.XXX ± .010
ANGULAR ± .5°

MATERIAL: SEE BOM
FINISH: N/A μinch
NEXT ASSY: D0900512

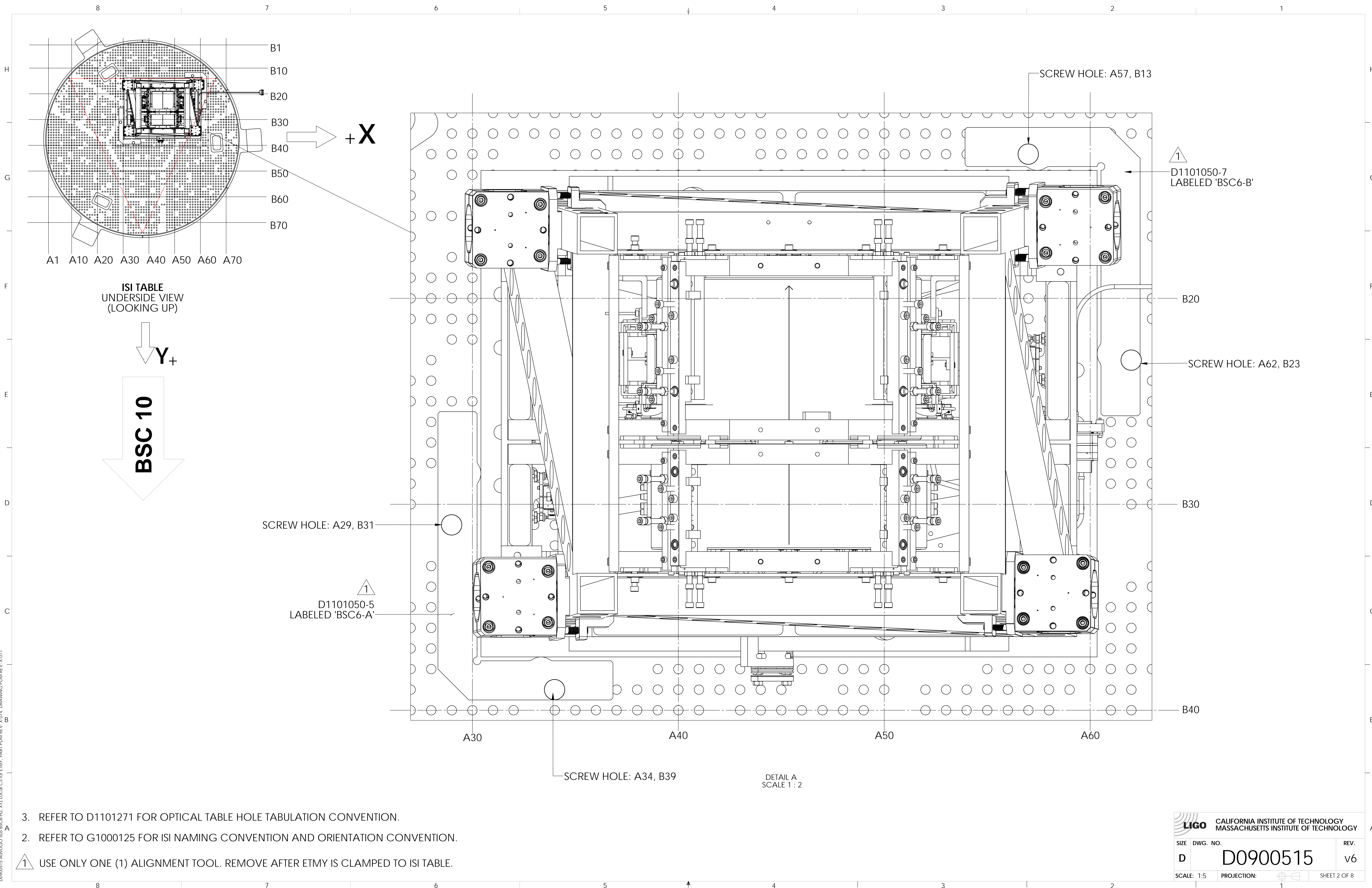
LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SYSTEM: ADVANCED LIGO SUB-SYSTEM: SUS

PART NAME: AdvLIGO SUS BSC6-H2, XYZ Local CS for ETMY

DESIGNER: J.ODELL 9 Aug 2009 SIZE: DWG. NO. D0900515 REV. v6
DRAFTER: M.HILLARD 30 June 2011
CHECKER: E.CHAVEZ 30 June 2011
APPROVAL: C.TORRE 30 June 2011 SCALE: 1:8 PROJECTION: SHEET 1 OF 8

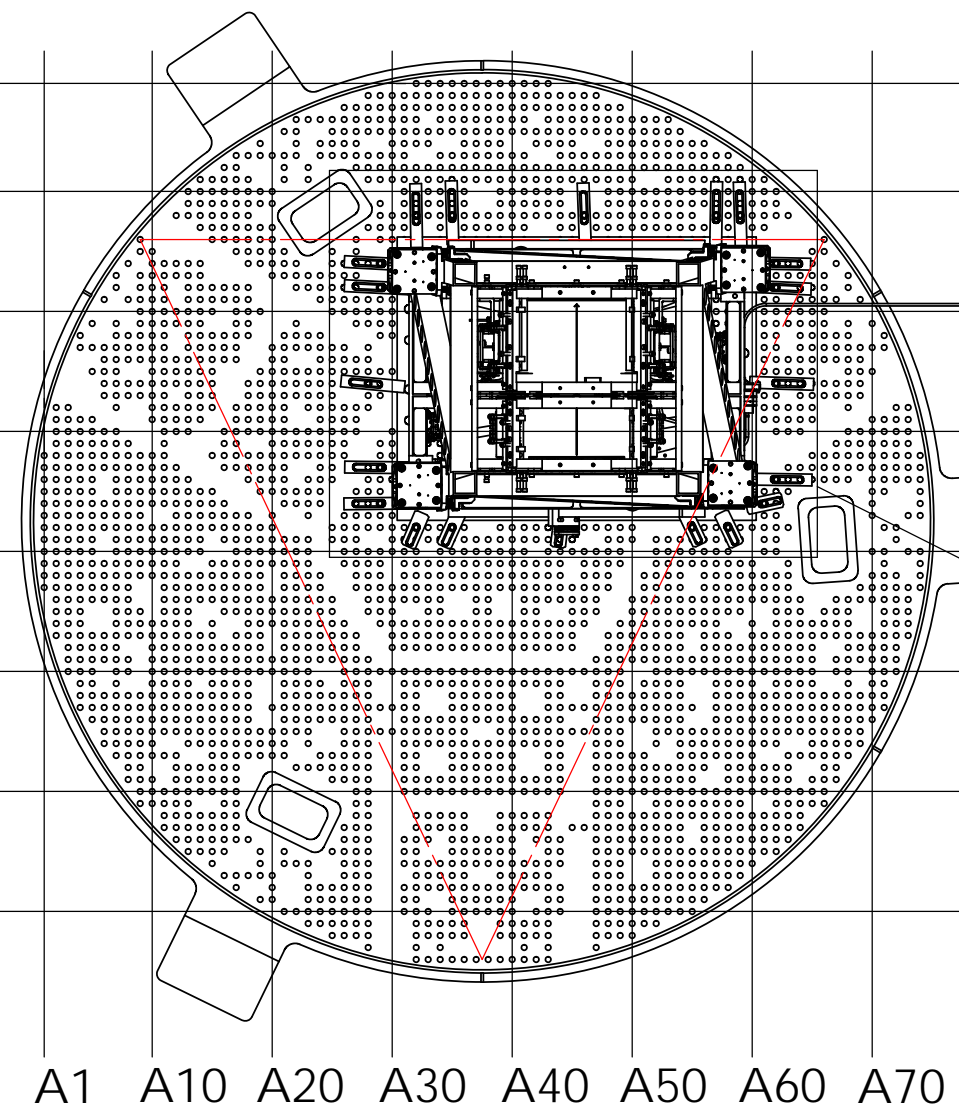
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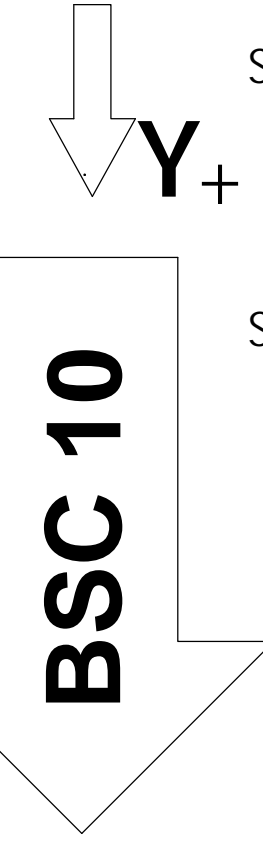
D:\090515_A01\LIGO_SLS_BSC-HZ_XYZ Local CS for ETMY_PART_PDM_REV_X.071_DRAWING_PDM_REV_X.011

3. REFER TO D1101271 FOR OPTICAL TABLE HOLE TABULATION CONVENTION.
2. REFER TO G1000125 FOR ISI NAMING CONVENTION AND ORIENTATION CONVENTION.
1. USE ONLY ONE (1) ALIGNMENT TOOL. REMOVE AFTER ETMY IS CLAMPED TO ISI TABLE.

CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		REV.
SIZE	DWG. NO.	REV.
D	D0900515	v6
SCALE: 1:5	PROJECTION:	SHEET 2 OF 8



ISI TABLE
UNDERSIDE VIEW
(LOOKING UP)

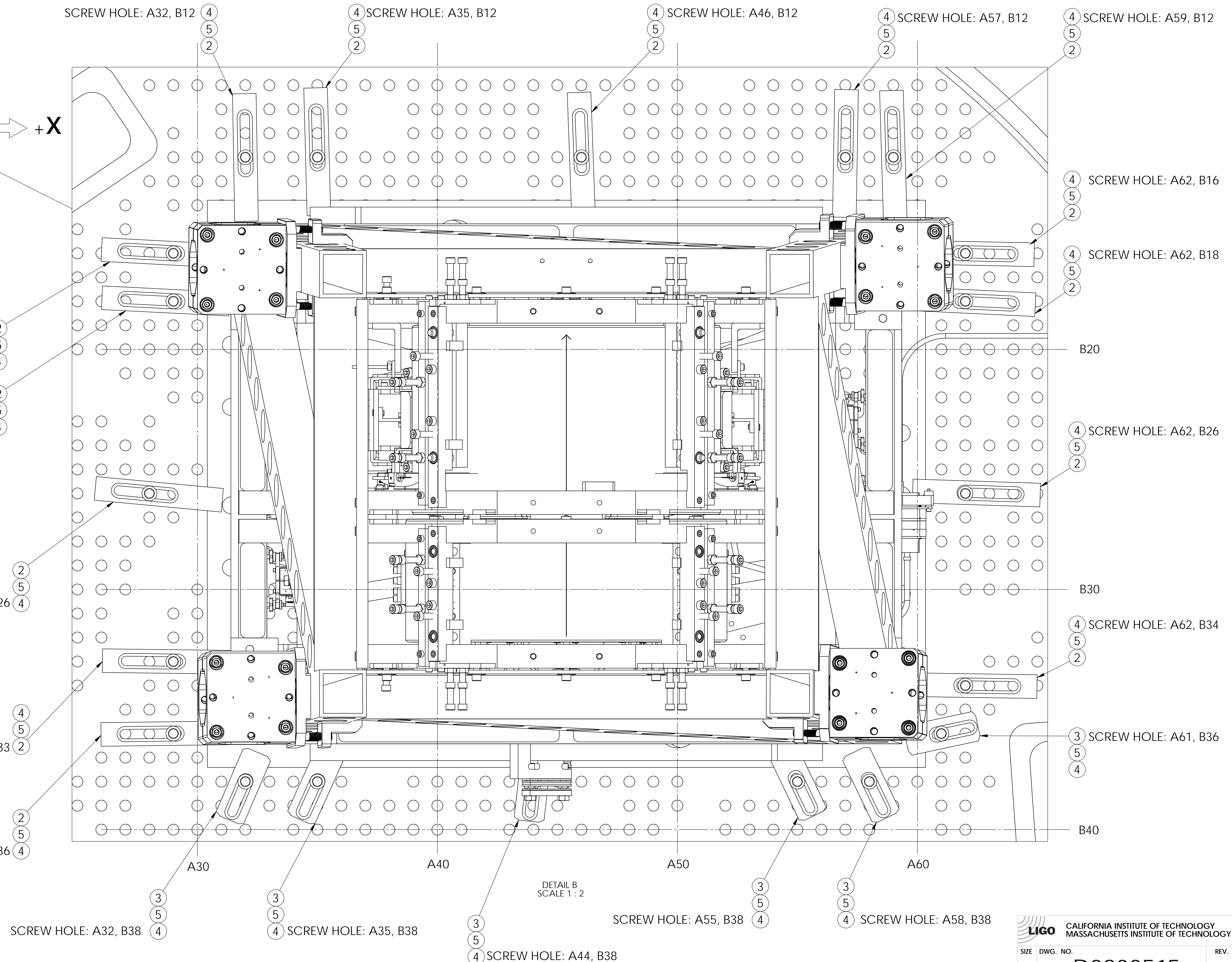


SCREW HOLE: A29, B16
SCREW HOLE: A29, B18

SCREW HOLE: A28, B26

SCREW HOLE: A29, B33

SCREW HOLE: A29, B36



TIGHTEN ALL SCREWS TO
A TORQUE OF 300 IN/LB

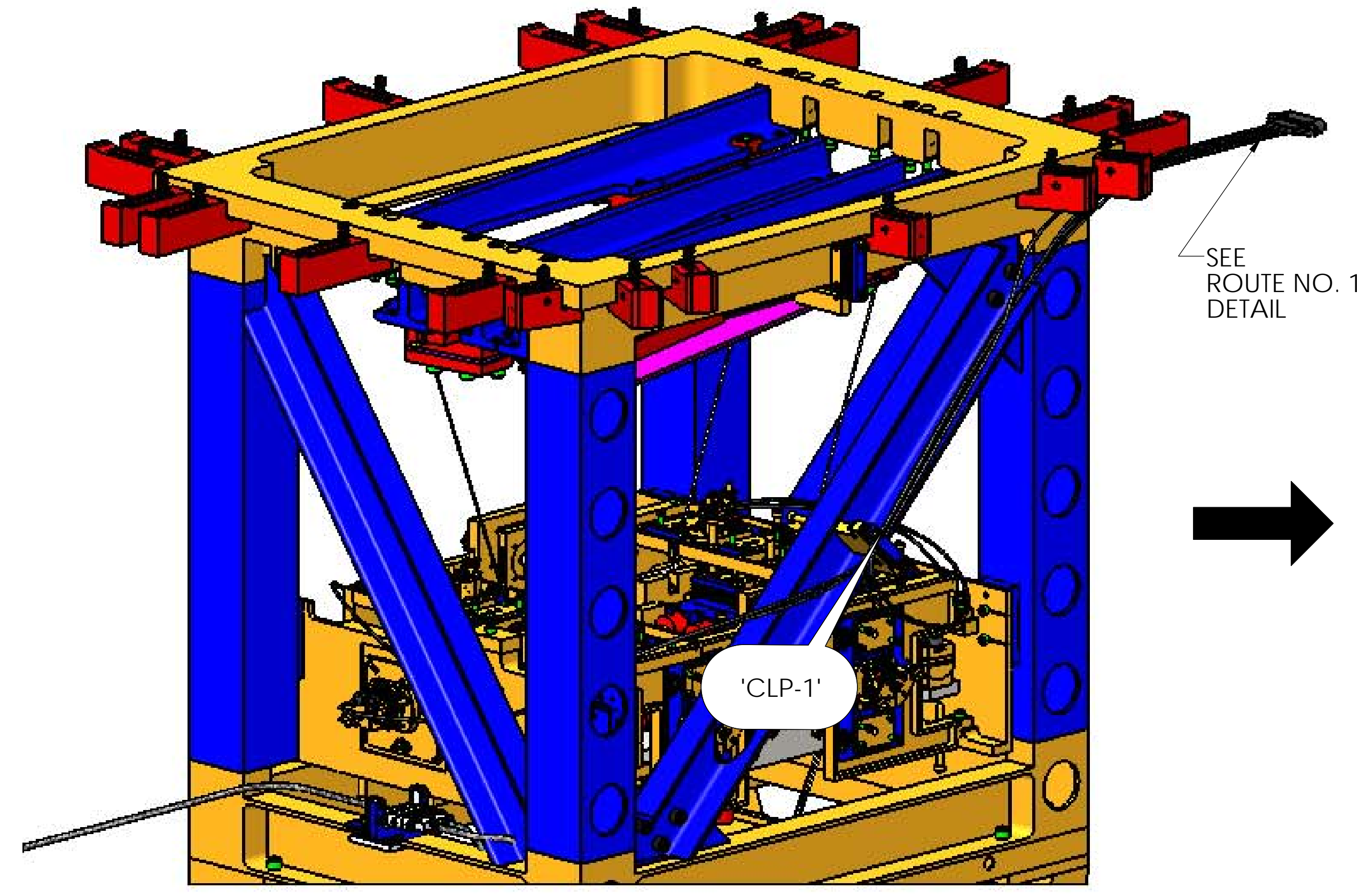
LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	
SIZE DWG. NO.	REV.
D D0900515	v6
SCALE: 1:5	PROJECTION: SHEET 3 OF 8

D0900515.ADM/LIGO_SLS/BSC/HZ_XYZ Local CS for ETM, PART PDM REV. X.071, DRAWING PDM REV. X.011

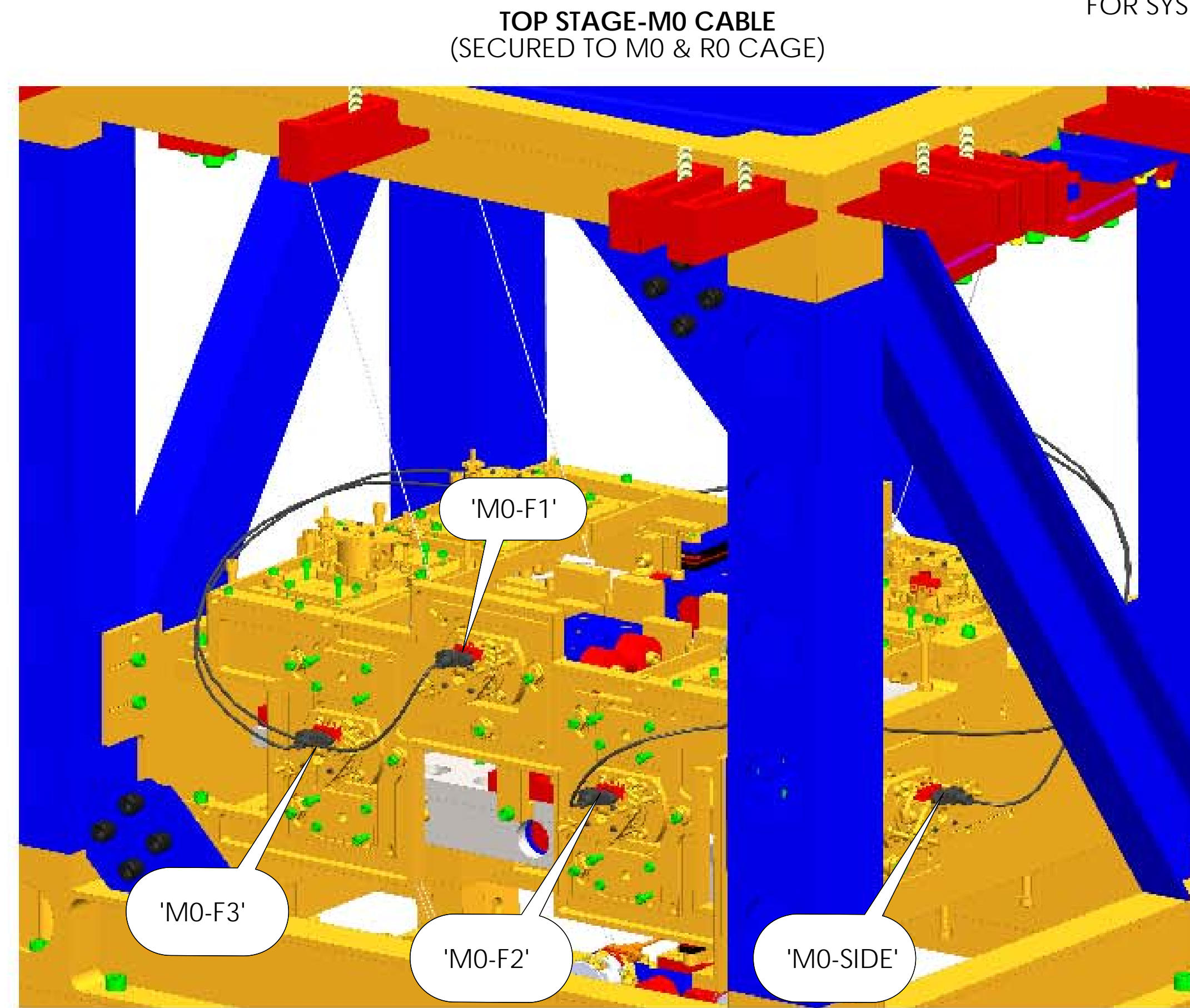
CABLE ROUTING SPECS.: TOP STAGE BOSEM

SEE T1100327 FOR QUAD CABLING PICASSO

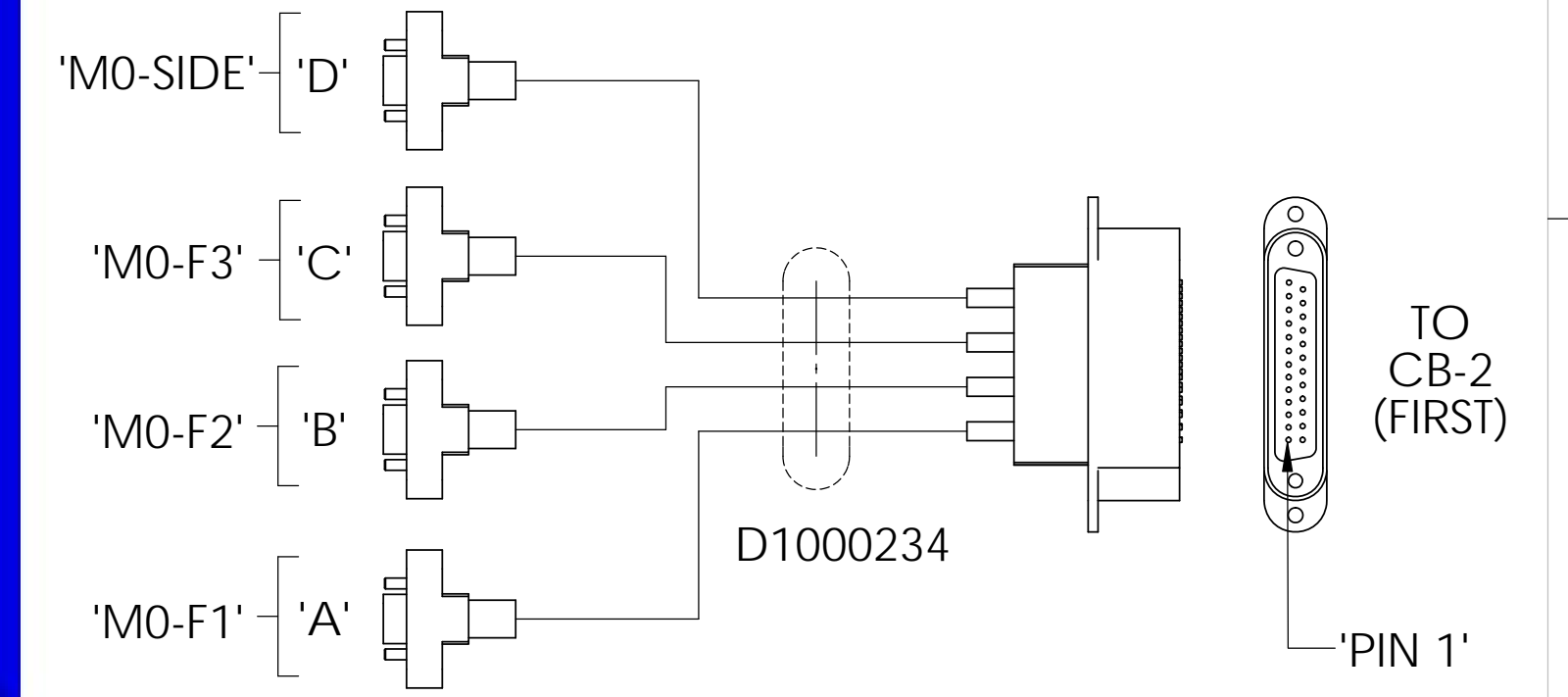
FOR SYSTEM CABLING DIAGRAM, CABLE BRACKET LOCATION/ORIENTATION WRT CHAMBER, SEE D1101478



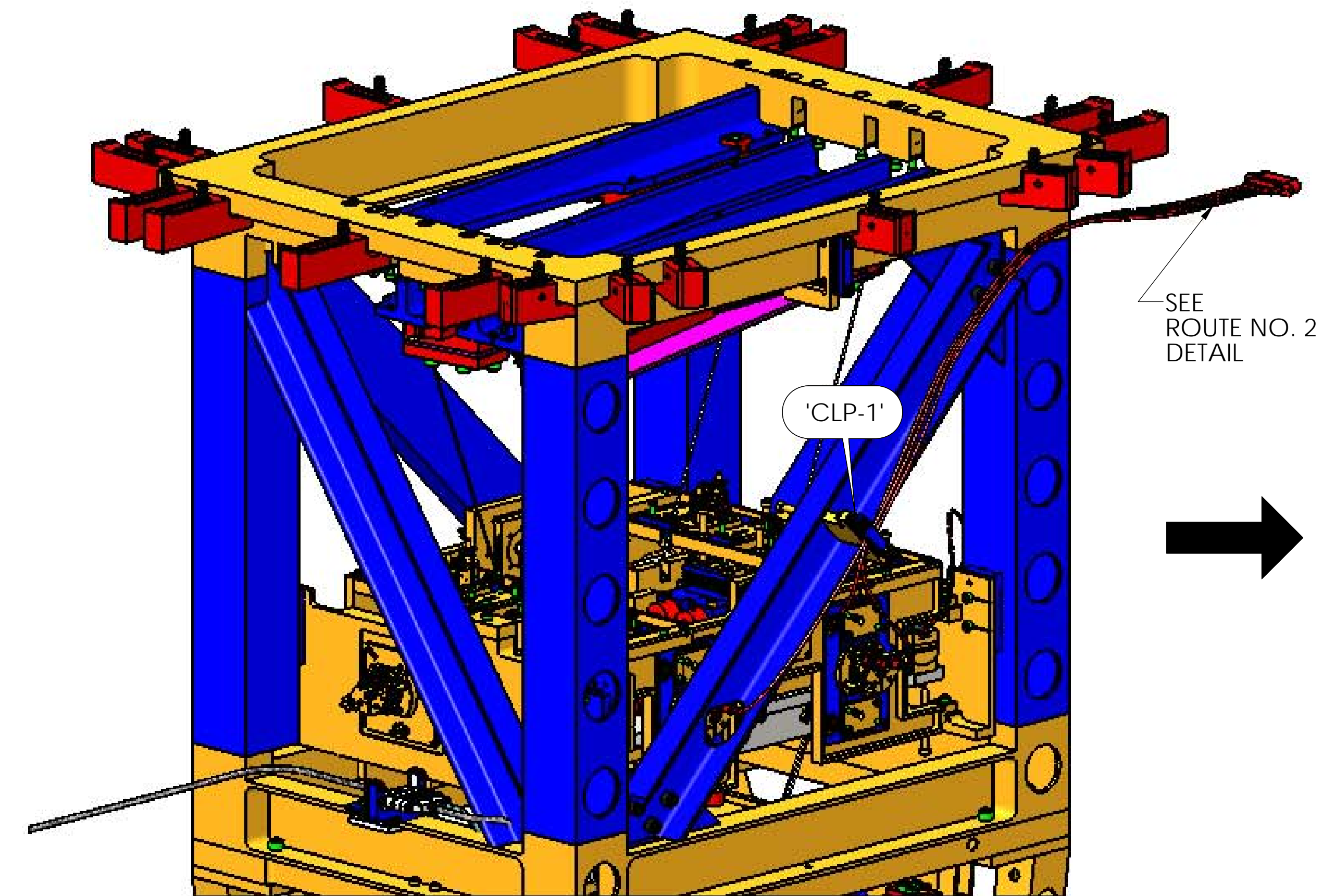
ROUTE CABLE/CABLES THROUGH REFERENCED CABLE CLAMPS



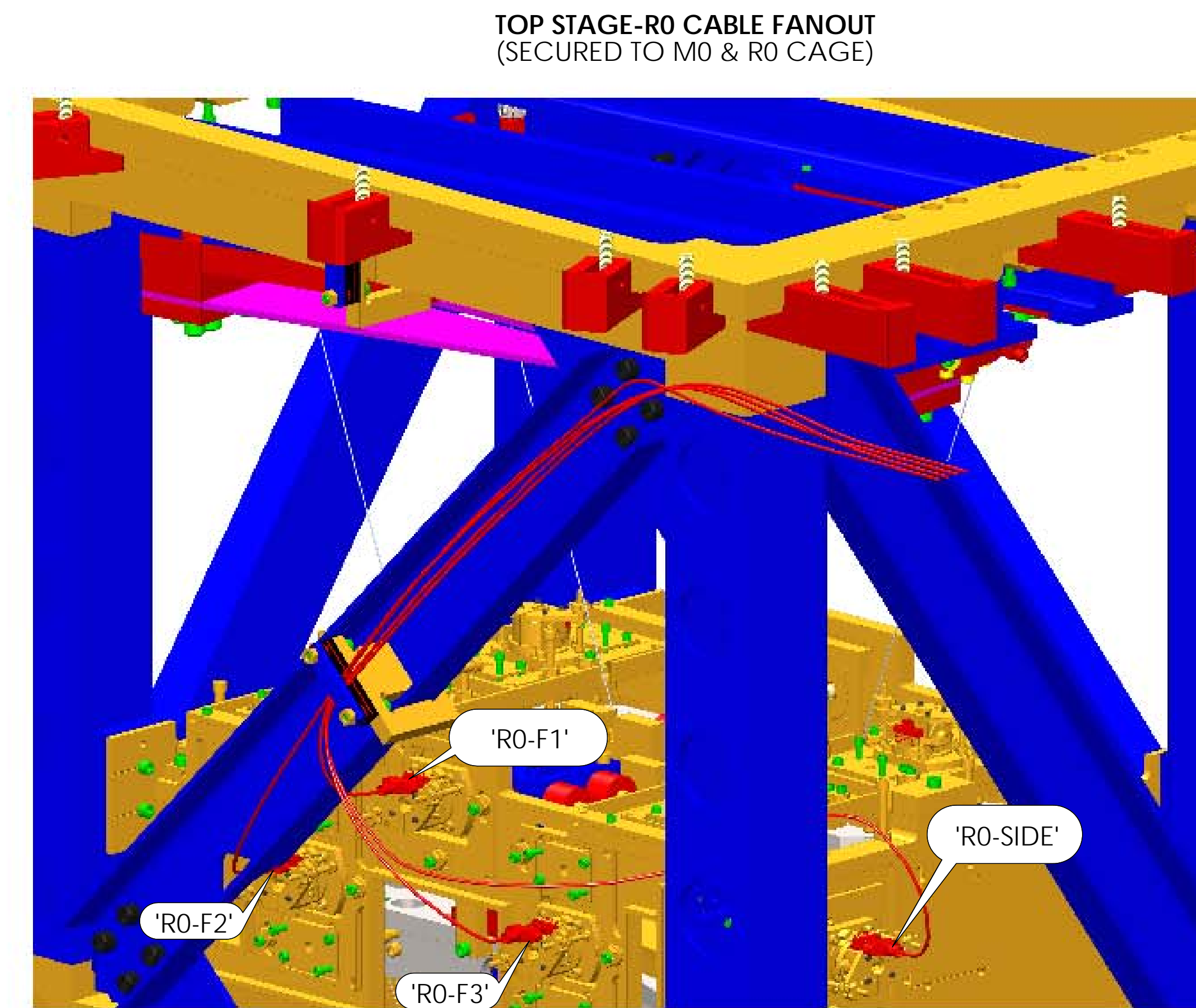
ISO VIEW-REAR



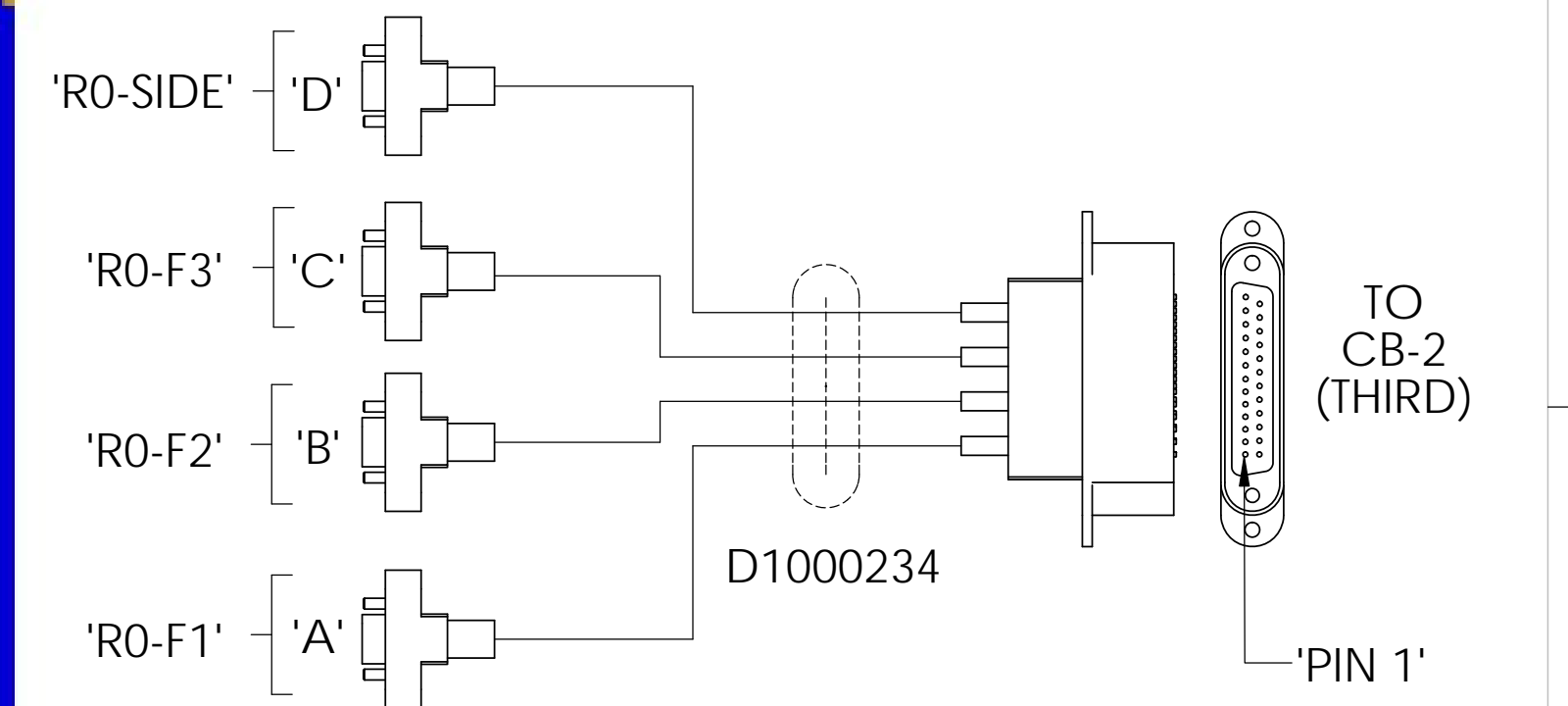
ROUTE NO. 1
(PARTIAL ROUTE-SEE D1101478, FOR COMPLETE ROUTE)



ROUTE CABLE/CABLES THROUGH REFERENCED CABLE CLAMPS



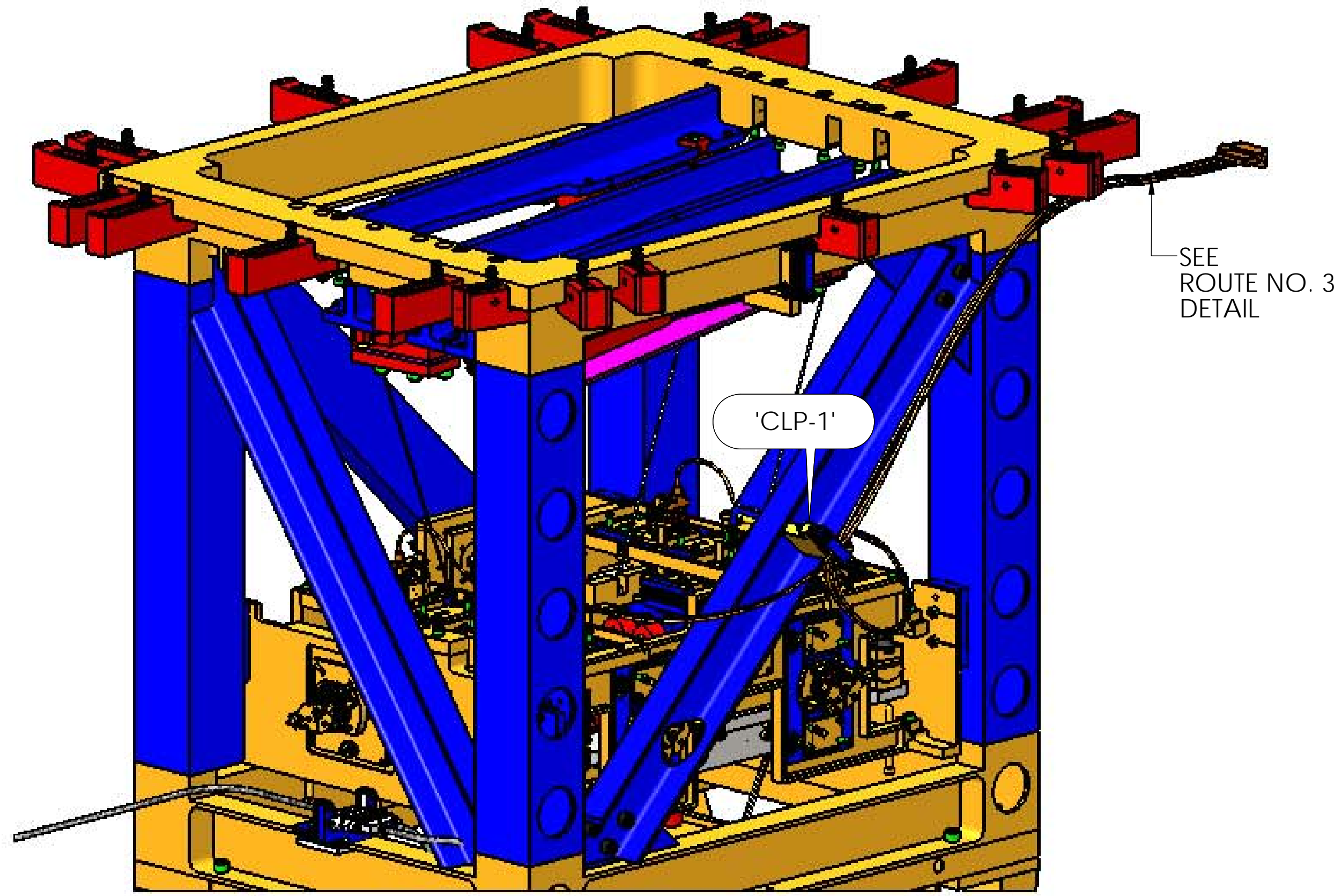
ISO VIEW-FRONT



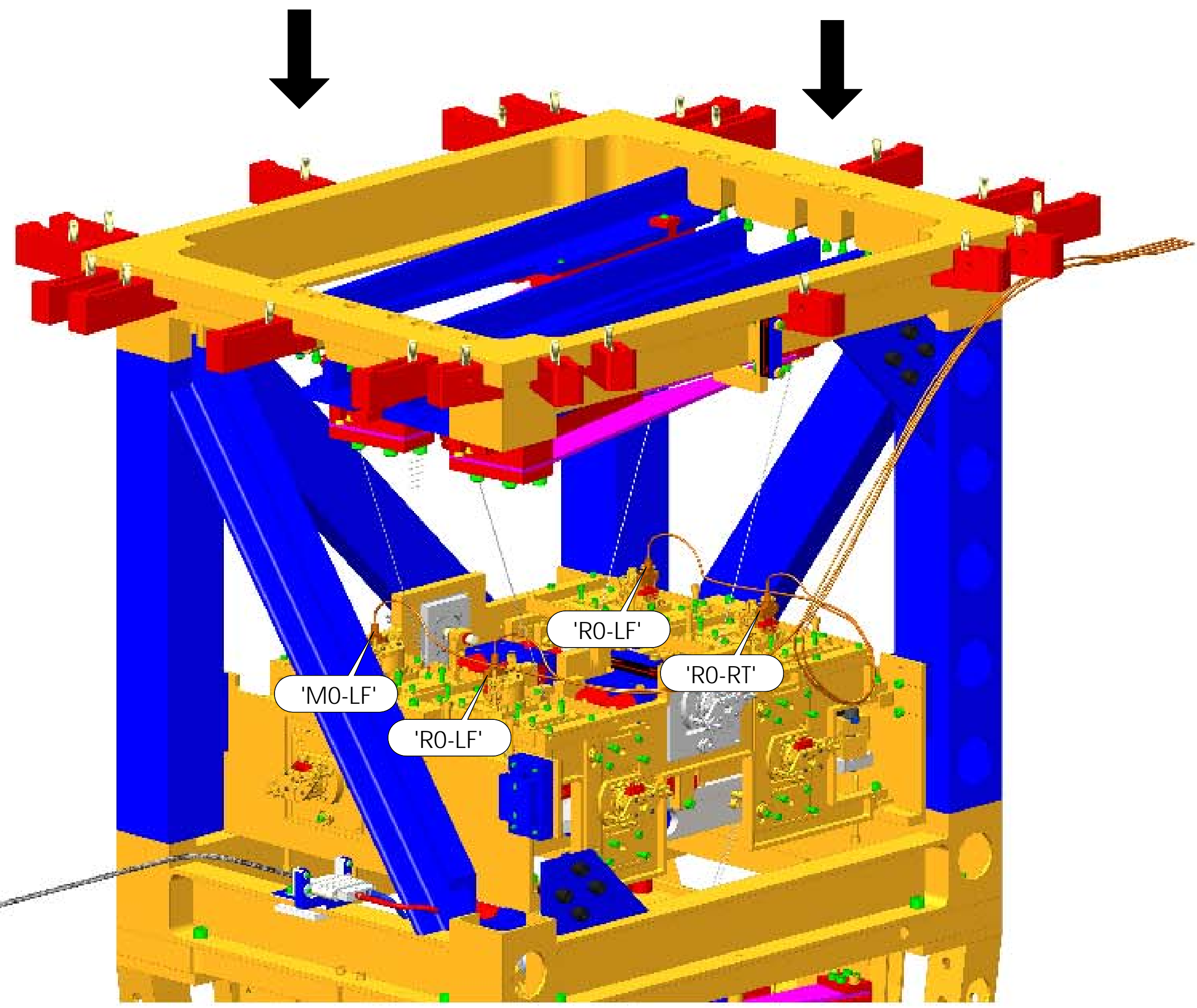
ROUTE NO. 2
(PARTIAL ROUTE-SEE D1101478, FOR COMPLETE ROUTE)

D:\090515-ADM\LIGO_SLS\BCH-HZ_XYZ\Local\CS for ETM\PART PDM\REV.X\071_DRAWING_PDM_REV.X\071

CABLE ROUTING SPECS.: TOP STAGE BOSEM



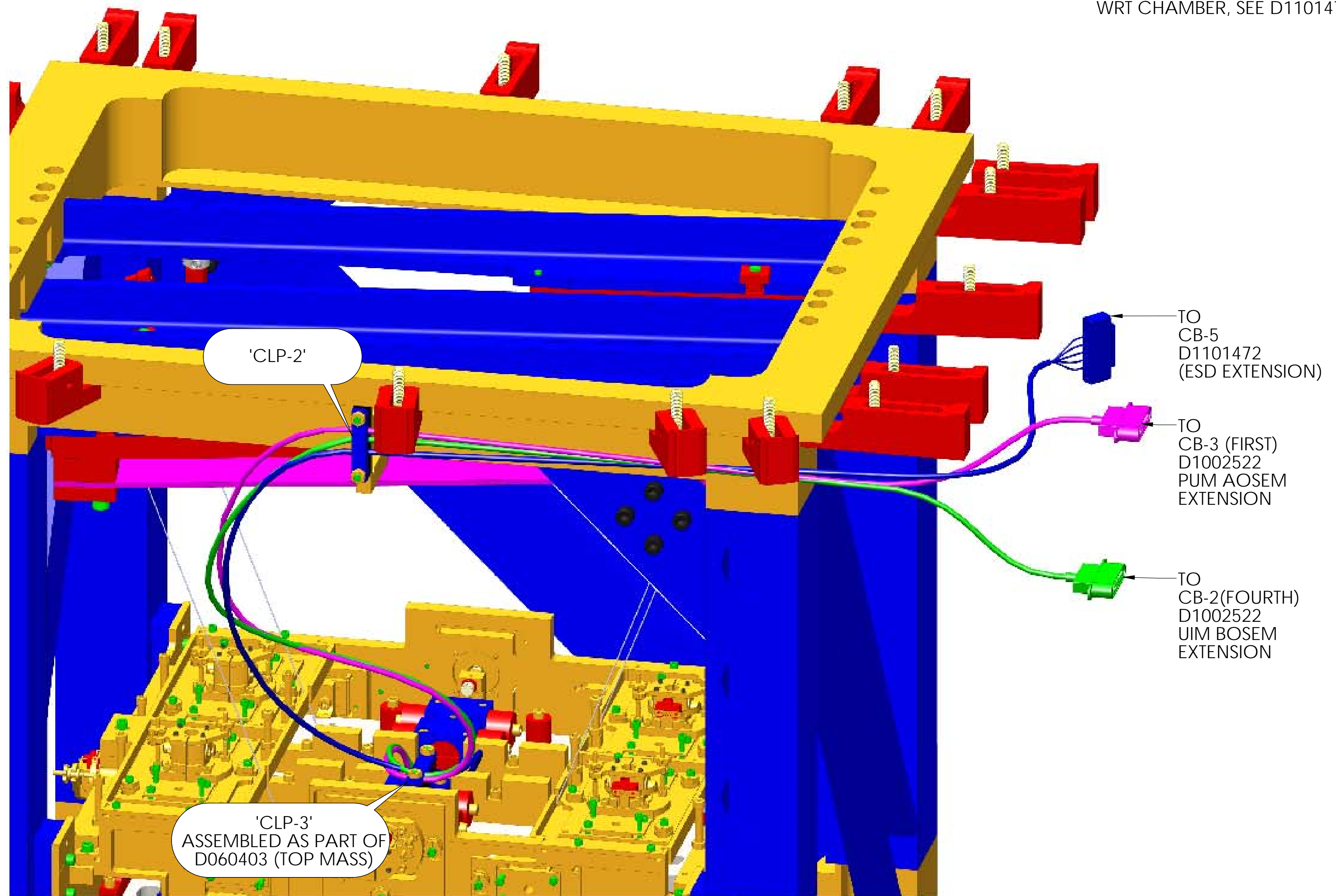
ROUTE CABLE/CABLES THROUGH REFERENCED CABLE CLAMPS



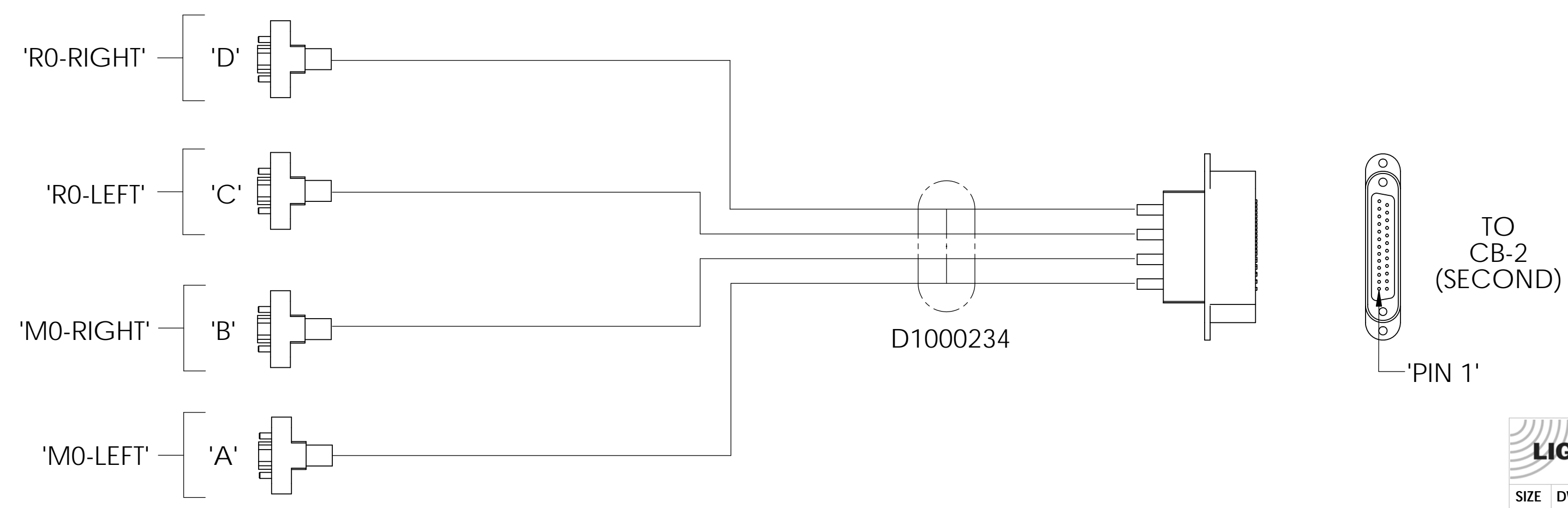
TOP STAGE, M0 / R0 CABLE

SEE T1100327 FOR QUAD CABLING PICASSO

FOR SYSTEM CABLING DIAGRAM, CABLE BRACKET LOCATION/ORIENTATION WRT CHAMBER, SEE D1101478



SEGMENT 'A': ROUTE CABLE/CABLES THROUGH REFERENCED CABLE CLAMPS



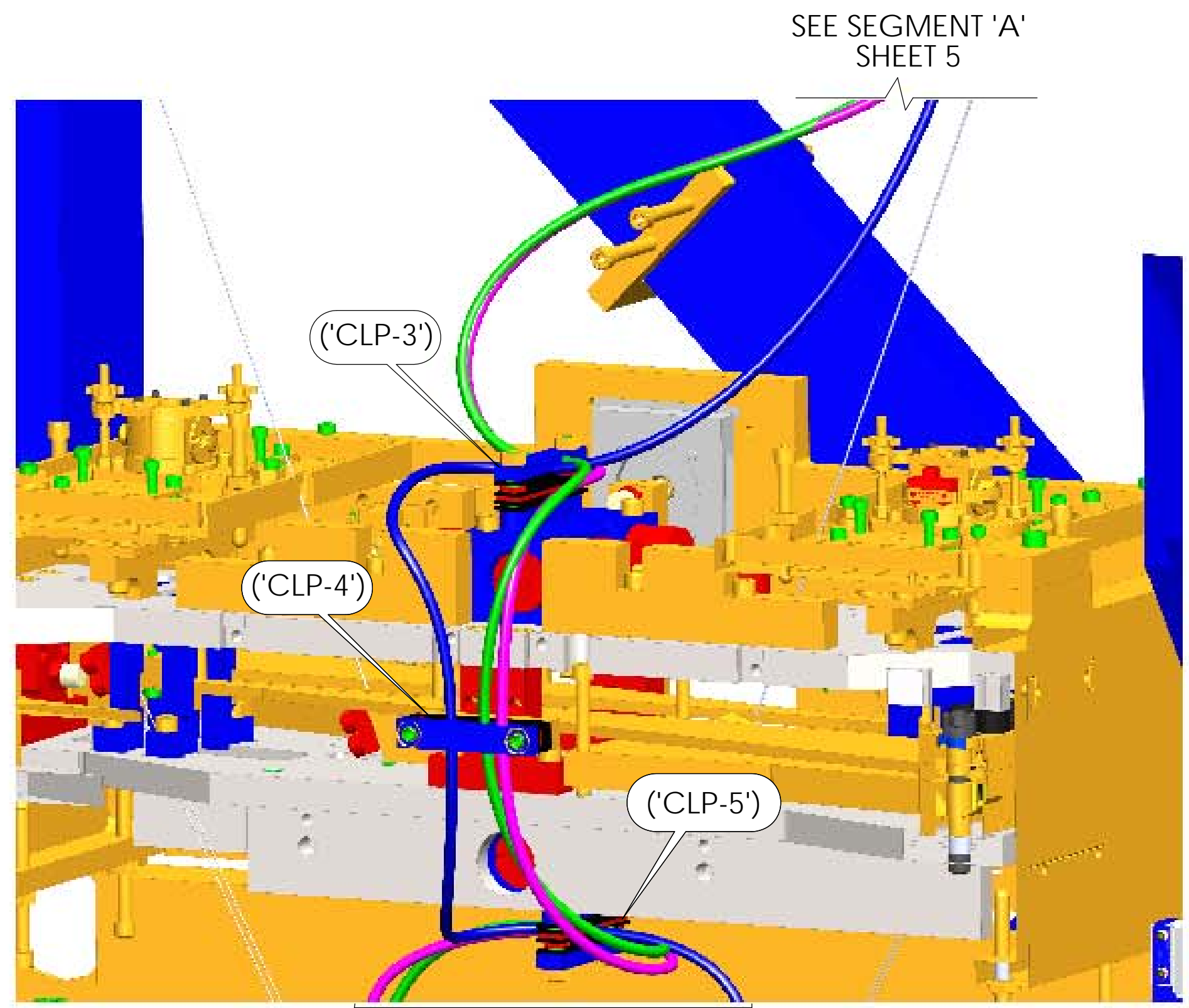
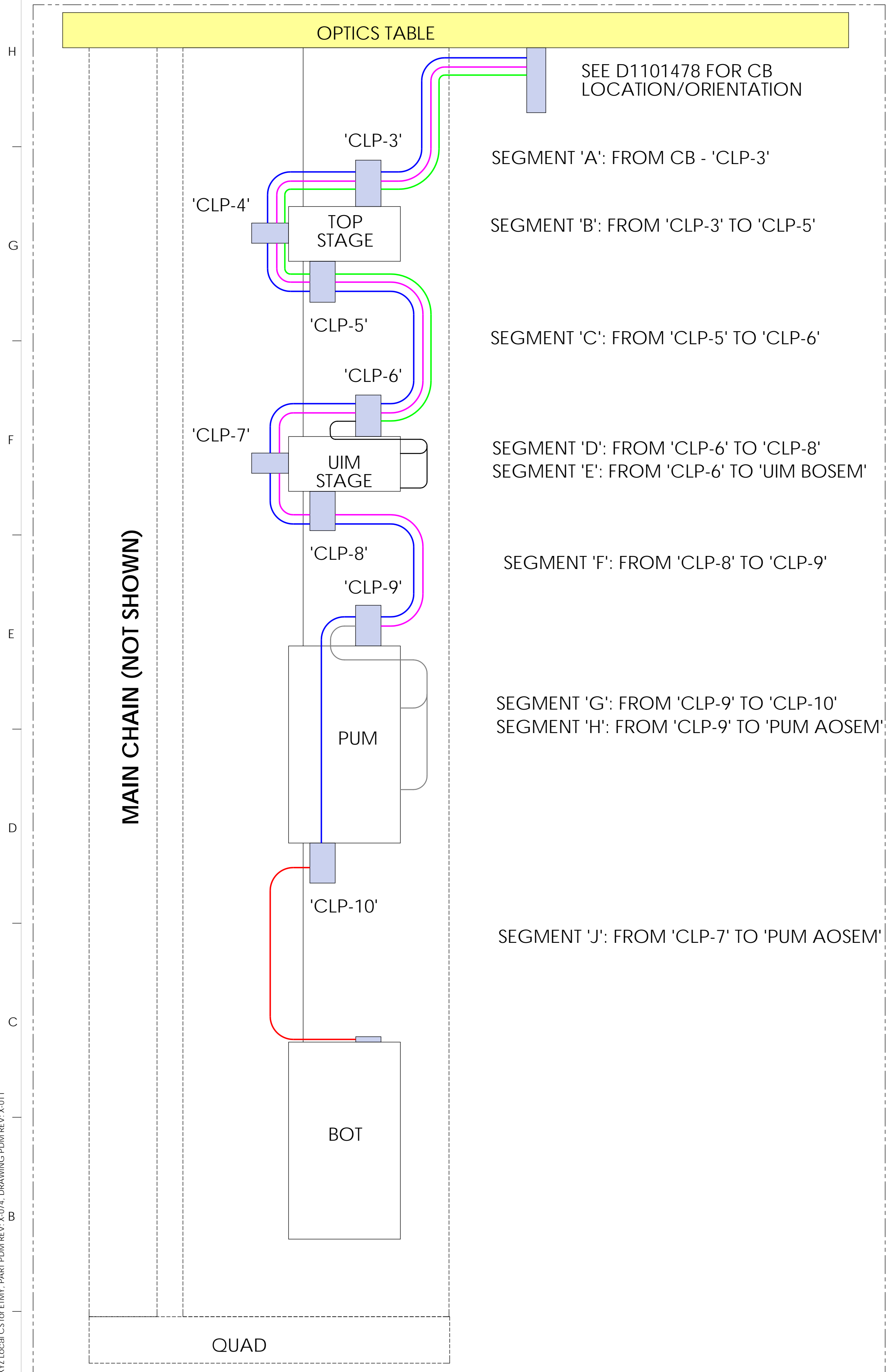
ROUTE NO. 3 DETAIL (PARTIAL ROUTE-SEE D1101478, FOR COMPLETE ROUTE)

CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	
SIZE DWG. NO.	REV.
D D0900515	v6
SCALE: 1:16	PROJECTION:
SHEET 5 OF 8	

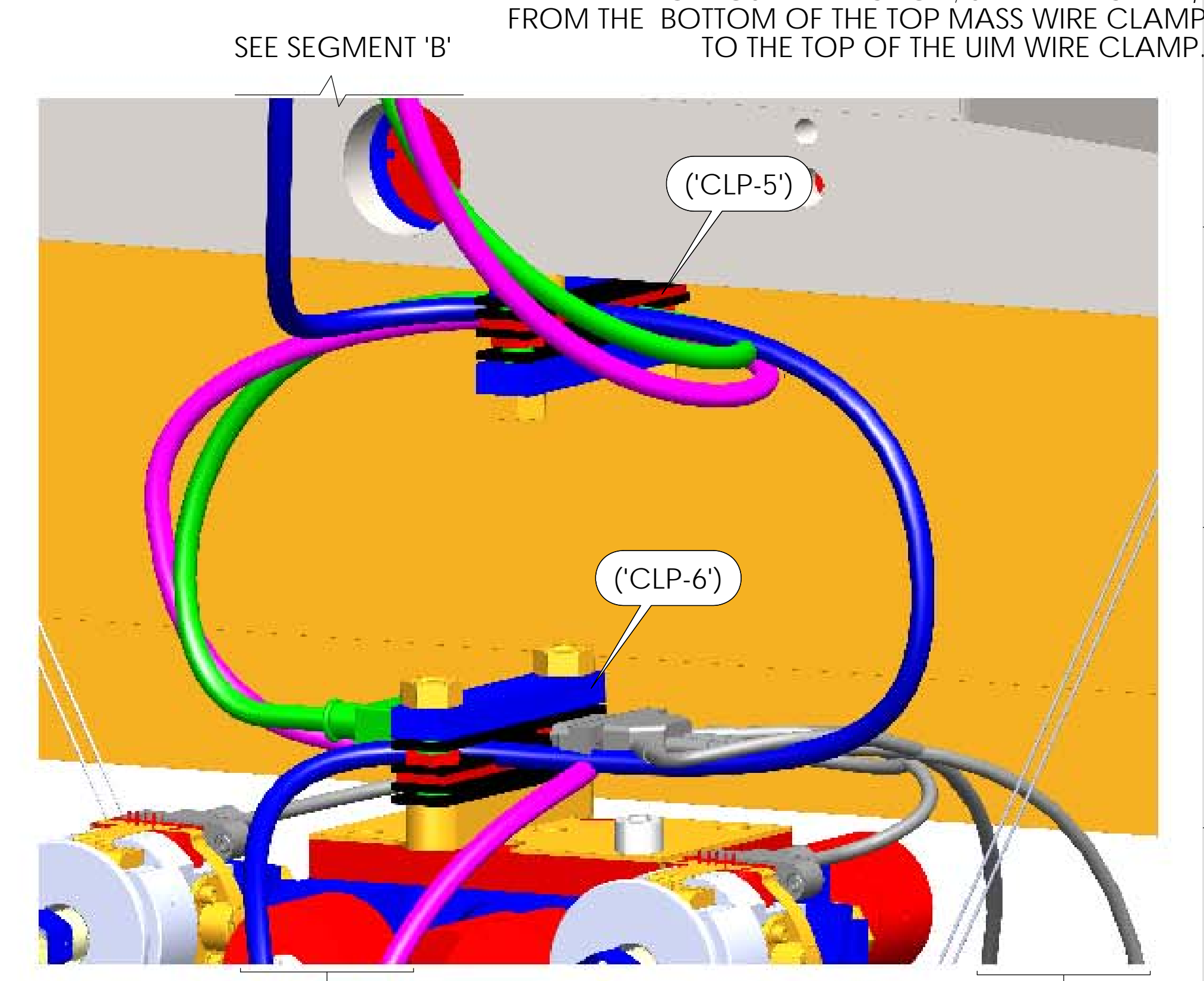
D:\0900515_ADM\LIGO_SLS_BSC-HZ_XYZ_Local_CS_for_ETMY_PART_PDM_REV_X.074_DRAWING_PDM_REV_X.071

CABLE ROUTING SPECS.: CABLING (UP REACTION CHAIN)

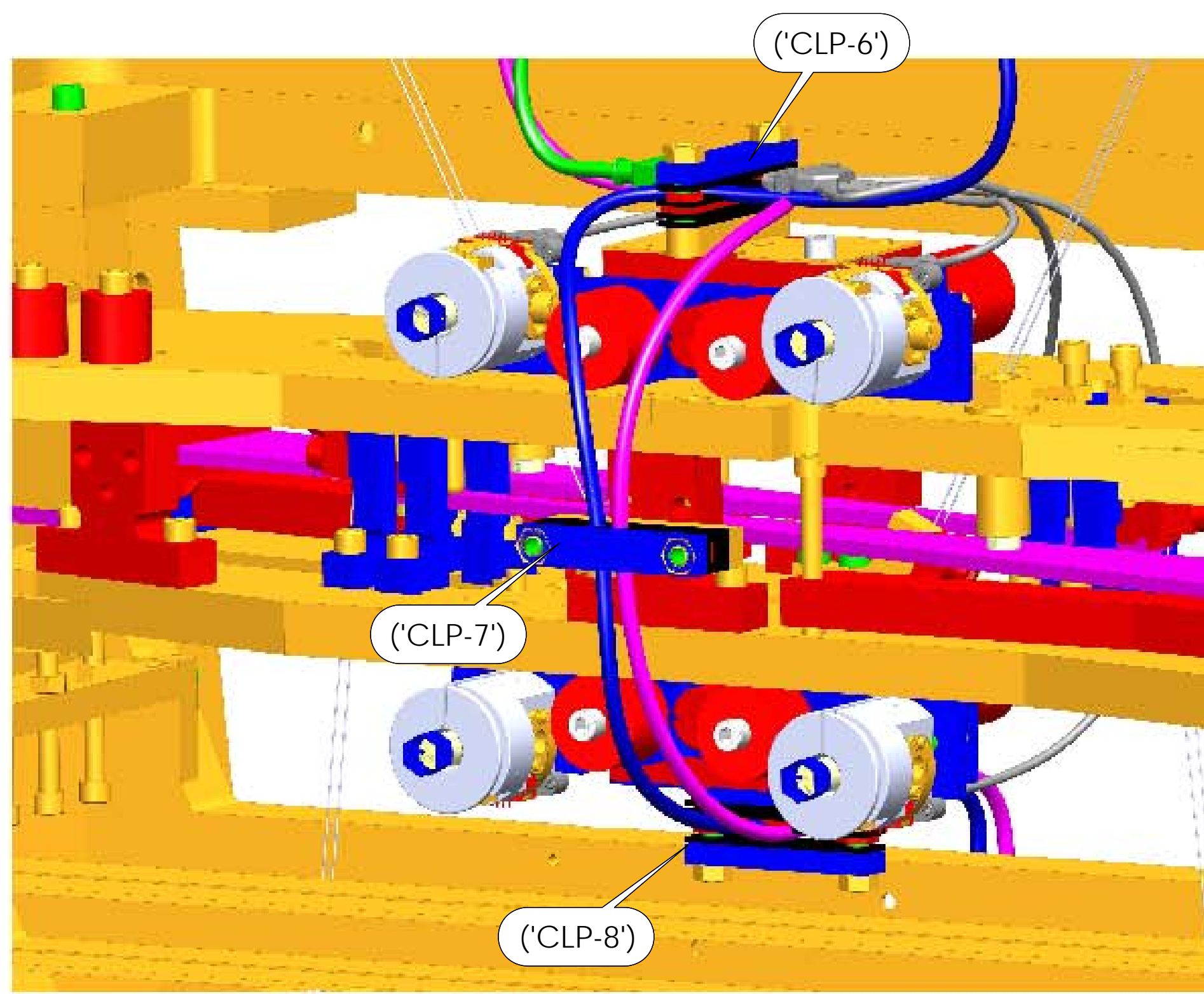
NOTE: ROUTE CABLES BETWEEN UIM AND TOP MASS IN OPPOSITE DIRECTION; SYMMETRICALLY, FROM THE BOTTOM OF THE TOP MASS WIRE CLAMP TO THE TOP OF THE UIM WIRE CLAMP.



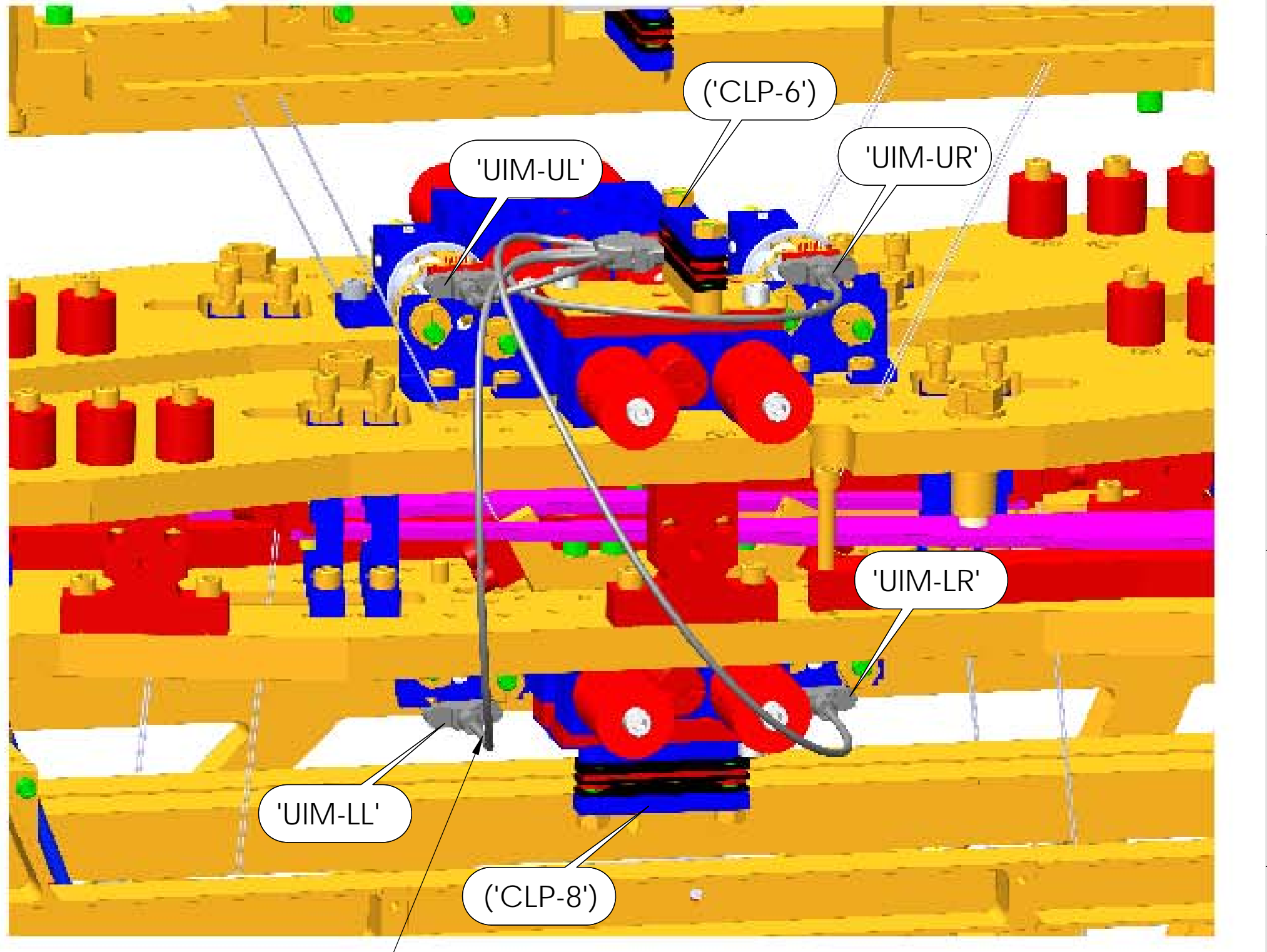
SEE SEGMENT 'C'
SEGMENT 'B': FROM 'CLP-3' TO 'CLP-5'
 AS VIEW BEHIND RE CHAIN
 CLP-3, CLP-4 AND CLP-5 ARE BOTH ASSEMBLED AT D060403 LEVEL
 (ROUTE CABLE/CABLES THROUGH REFERENCED CABLE CLAMPS)



SEE SEGMENT 'D'
SEGMENT 'C': FROM 'CLP-5' TO 'CLP-6'
 AS VIEW BEHIND RE CHAIN
 CLP-6 ASSEMBLED AT D1101129 LEVEL
 (ROUTE CABLE/CABLES THROUGH REFERENCED CABLE CLAMPS)

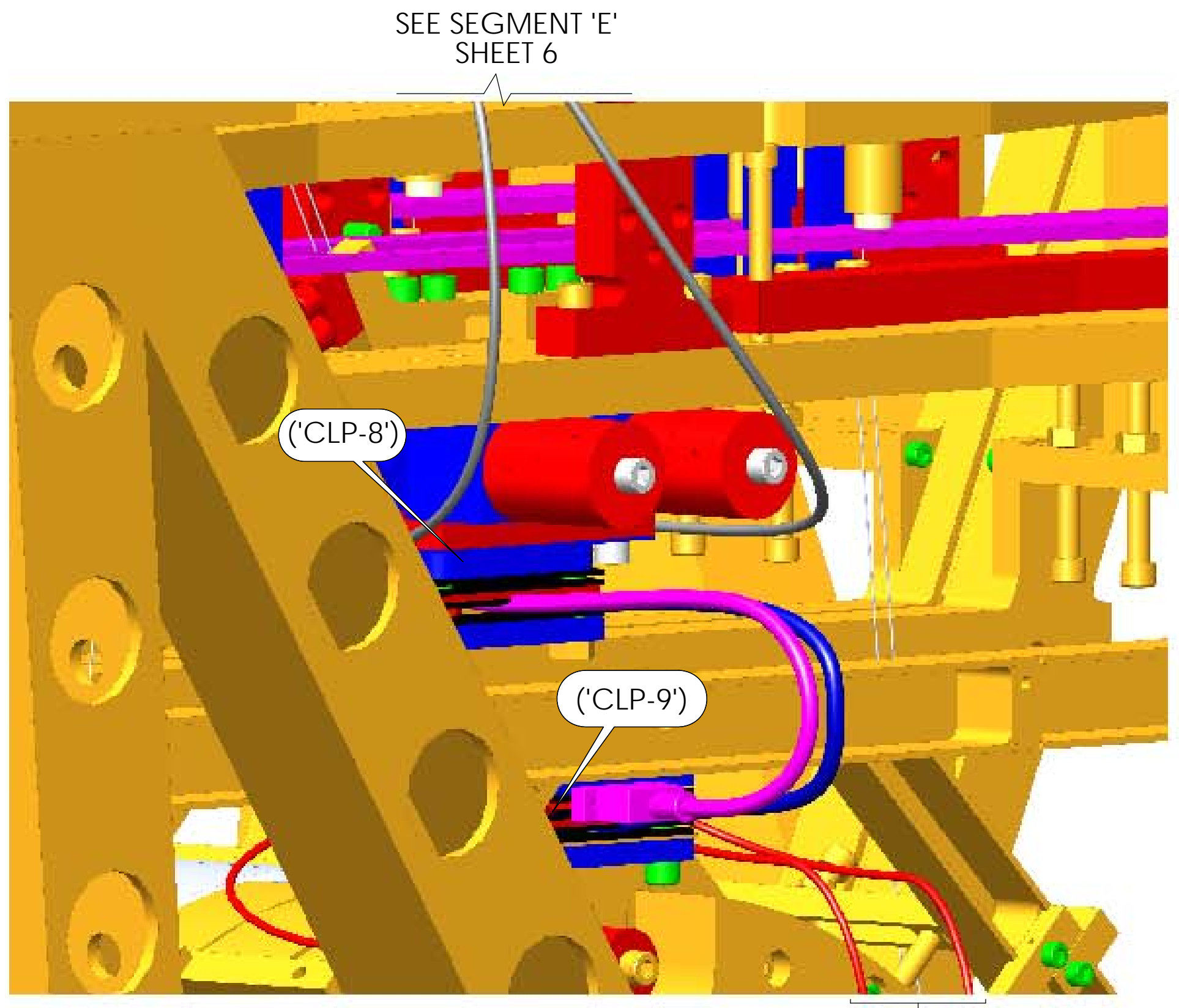
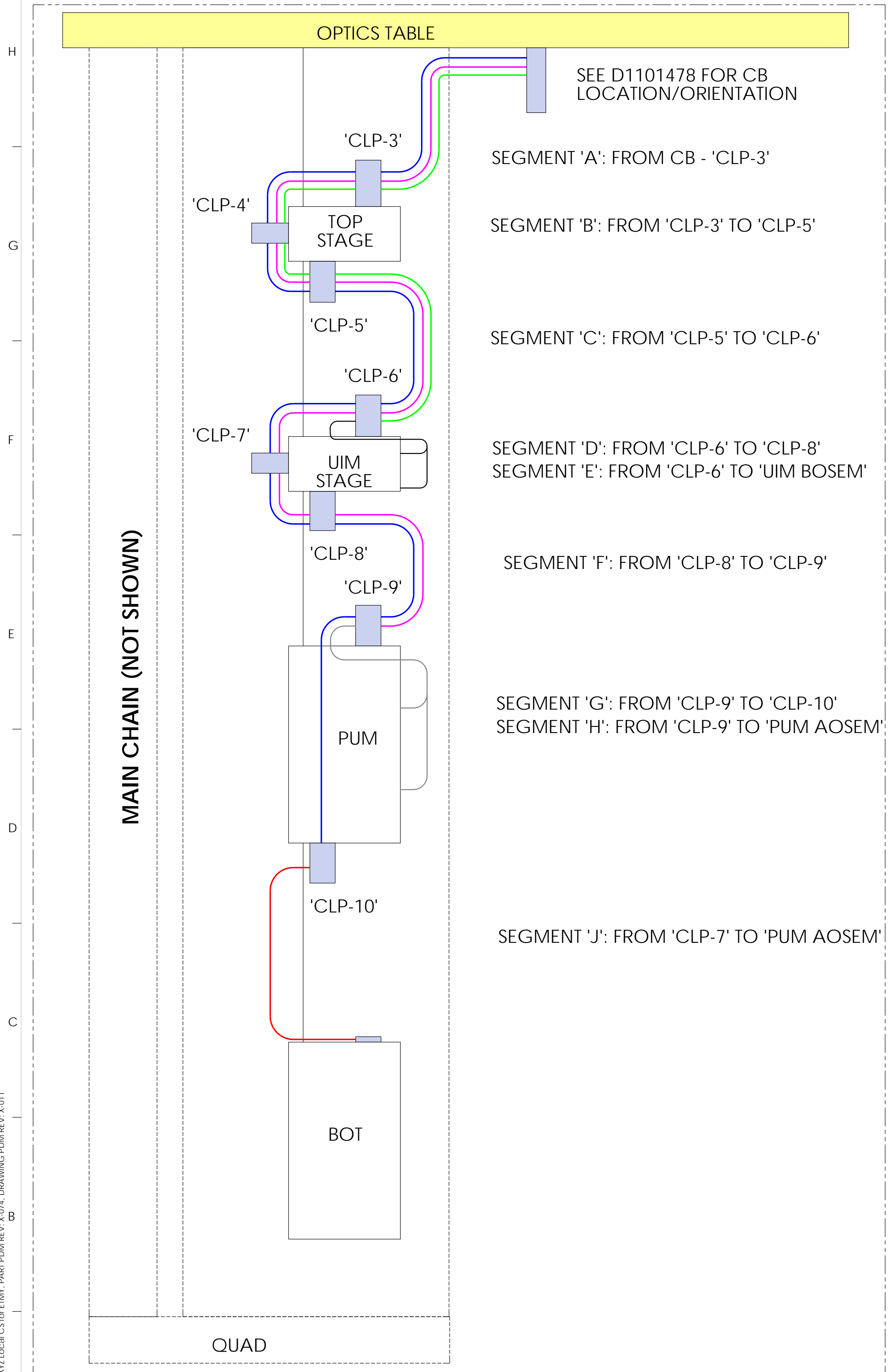


SEGMENT 'D': FROM 'CLP-5' TO 'CLP-6'
 AS VIEW BEHIND RE CHAIN
 CLP-5 AND CLP-6 ARE BOTH ASSEMBLED AT D1101129 LEVEL
 (ROUTE CABLE/CABLES THROUGH REFERENCED CABLE CLAMPS)

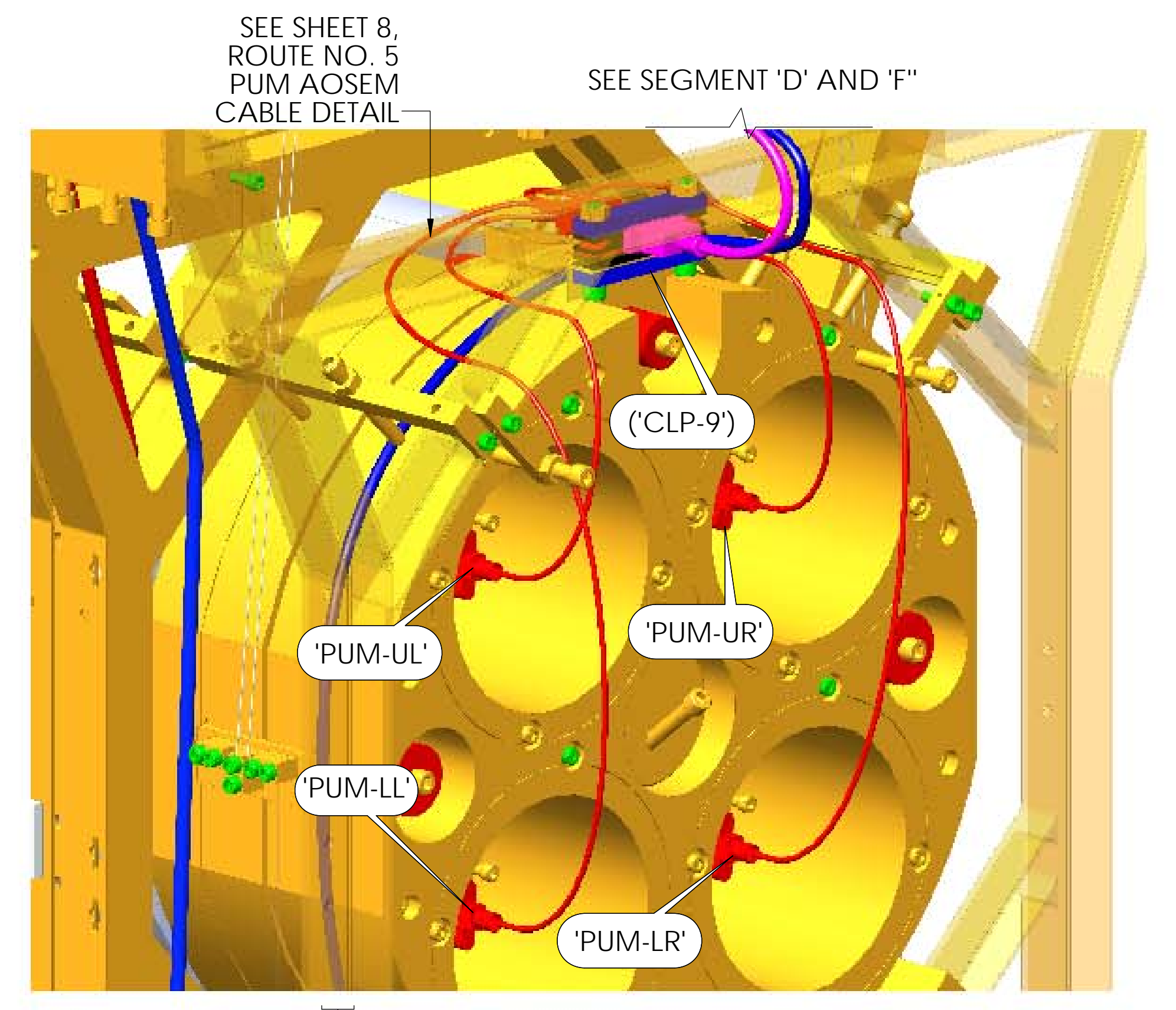


SEE SHEET 8, ROUTE NO. 4 UIM BOSEM-DETAIL
SEGMENT 'E': FROM 'CLP-6' TO UIM BOSEM

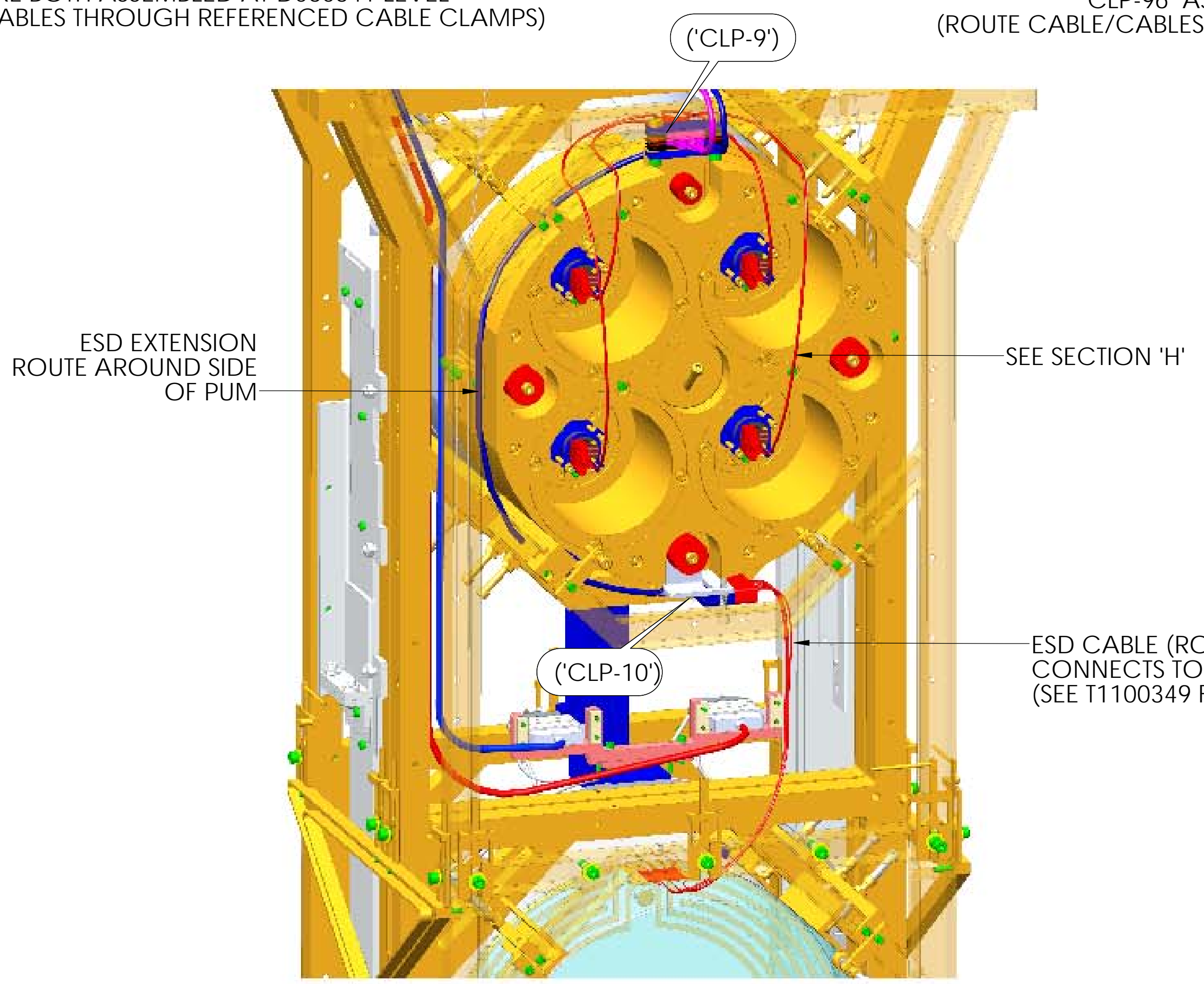
CABLE ROUTING SPECS.: CABLING (UP REACTION CHAIN)



SEGMENT 'F': FROM 'CLP-8' TO 'CLP-9'
CLP-9 ARE BOTH ASSEMBLED AT D060341 LEVEL
(ROUTE CABLE/CABLES THROUGH REFERENCED CABLE CLAMPS)



SEGMENT 'H': FROM 'CLP-9' TO 'PUM AOSEM'
CLP-96 ASSEMBLED AT D060341 LEVEL
(ROUTE CABLE/CABLES THROUGH REFERENCED CABLE CLAMPS)



SEGMENT 'J': FROM 'CLP-5' TO 'CLP-6'
CLP-9 AND CLP-10 ARE BOTH ASSEMBLED AT D060341 LEVEL
(ROUTE CABLE/CABLES THROUGH REFERENCED CABLE CLAMPS)

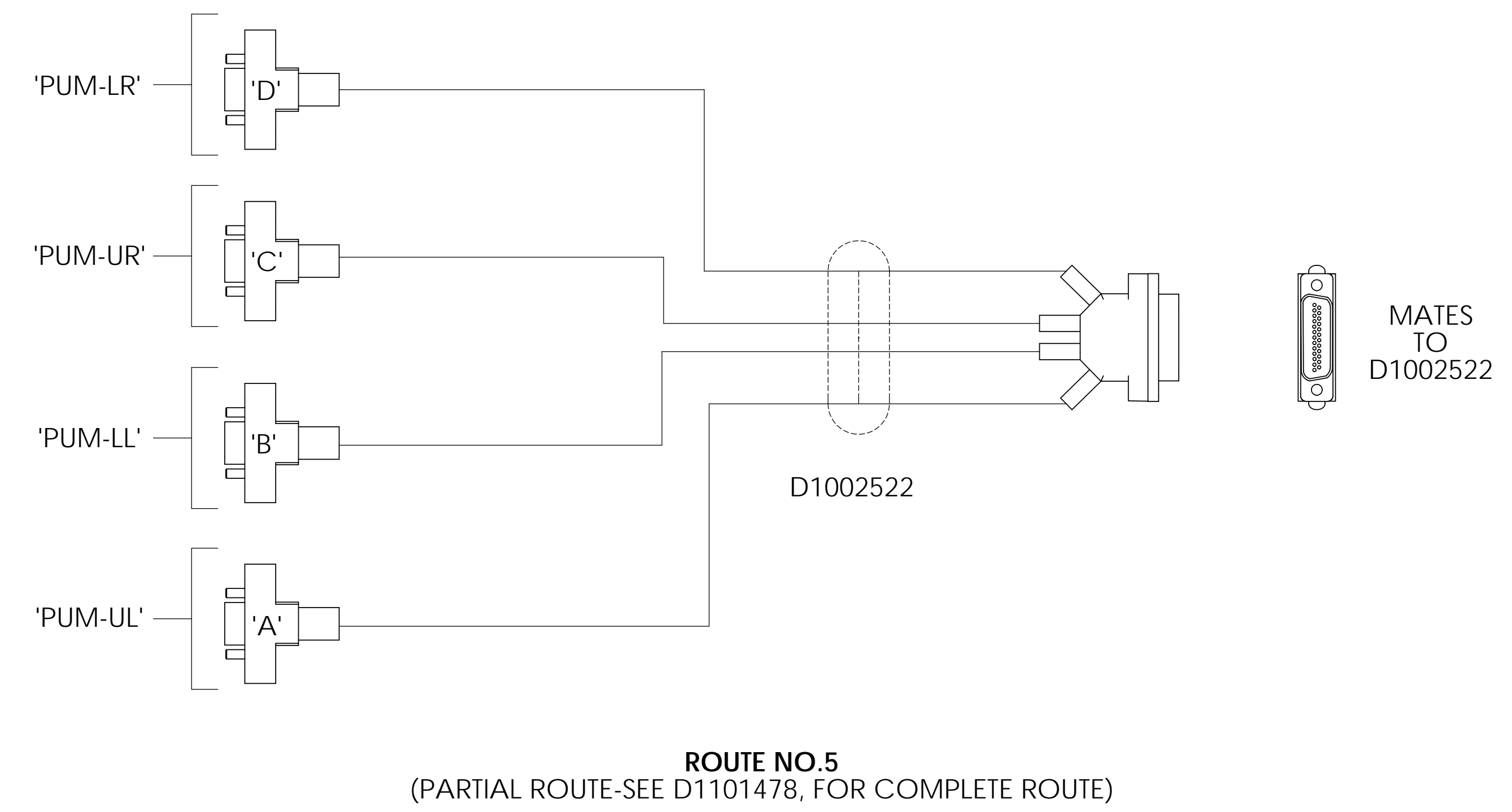
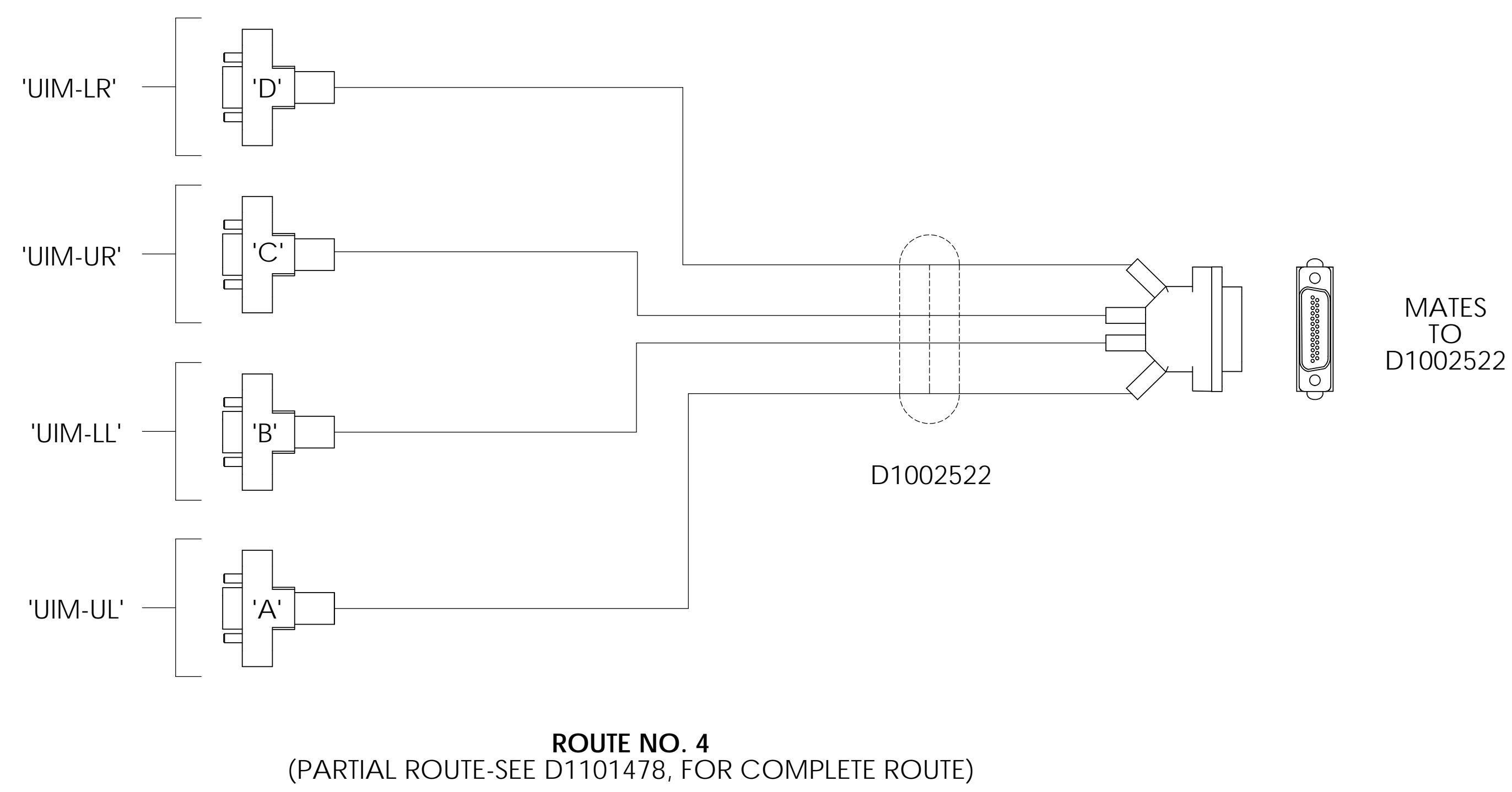


TABLE 1: BSC6 ETMY CABLING SPECIFICATIONS, FROM/TO DES.

ROUTE NO.	FROM (OSEM POSITION)	TO CABLE EXTENSION	TO CB FLOOR DES.	OP LEG DES.	CABLE PART NO.	NOM. CABLE LENGTH (IN)	NOM. CABLE LENGTH (IN) (EXTENSION)
1	M0-F1	N/A	CB-2 (FIRST)	A	D1000234	88	N/A
	M0-F2			B			
	M0-F3			C			
	M0-SIDE			D			
2	R0-F1	N/A	CB-2 (THIRD)	A	D1000234	88	N/A
	R0-F2			B			
	R0-F3			C			
	R0-SIDE			D			
3	M0-LEFT	N/A	CB-2 (SECOND)	A	D1000234	88	N/A
	M0-RIGHT			B			
	R0-LEFT			C			
	R0-RIGHT			D			
4	UIM-UL	D1002522	CB-2 (FOURTH)	A	D1002523	12	121
	UIM-LL			B			
	UIM-UR			C			
	UIM-LR			D			
5	PUM-UL	D1002522	CB-3 (FIRST)	A	D1002524	17	156
	PUM-LL			B			
	PUM-UR			C			
	PUM-LR			D			
6	D1002225	D1101472	CB-5	N/A	N/A	N/A	175

D:\090515_ADM\LIGO_SLS_BSC-HZ_XYZ_Local_CS_for_ETMY_PART_PDM_REV_X.071_DRAWING_PDM_REV_X.011