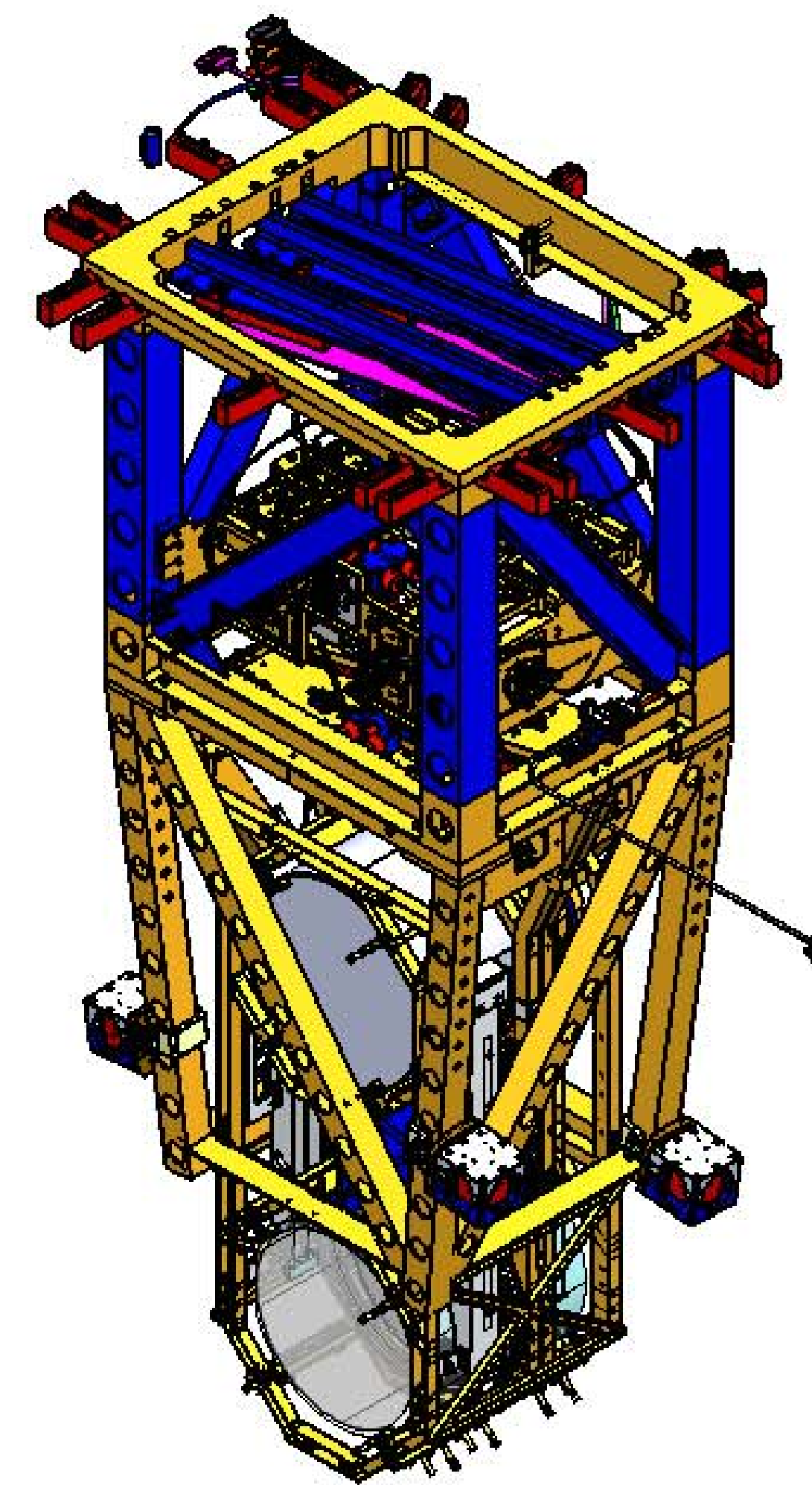
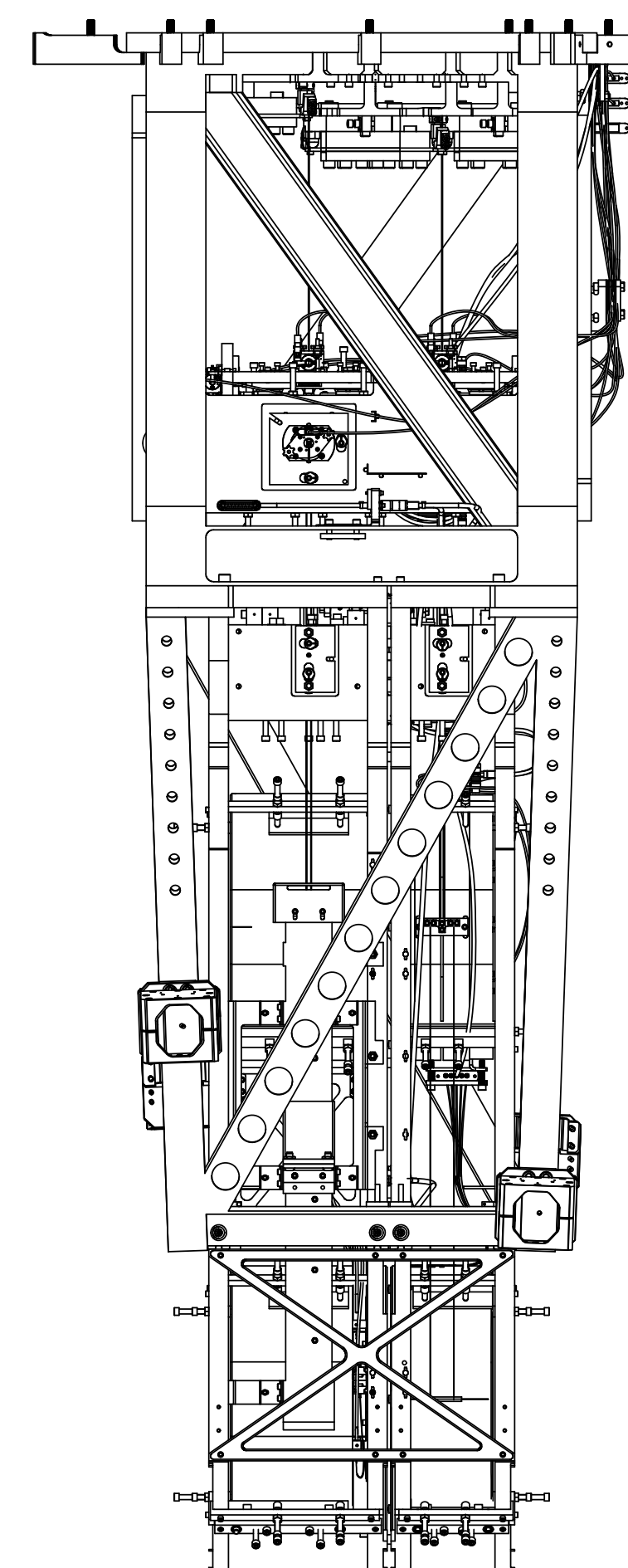
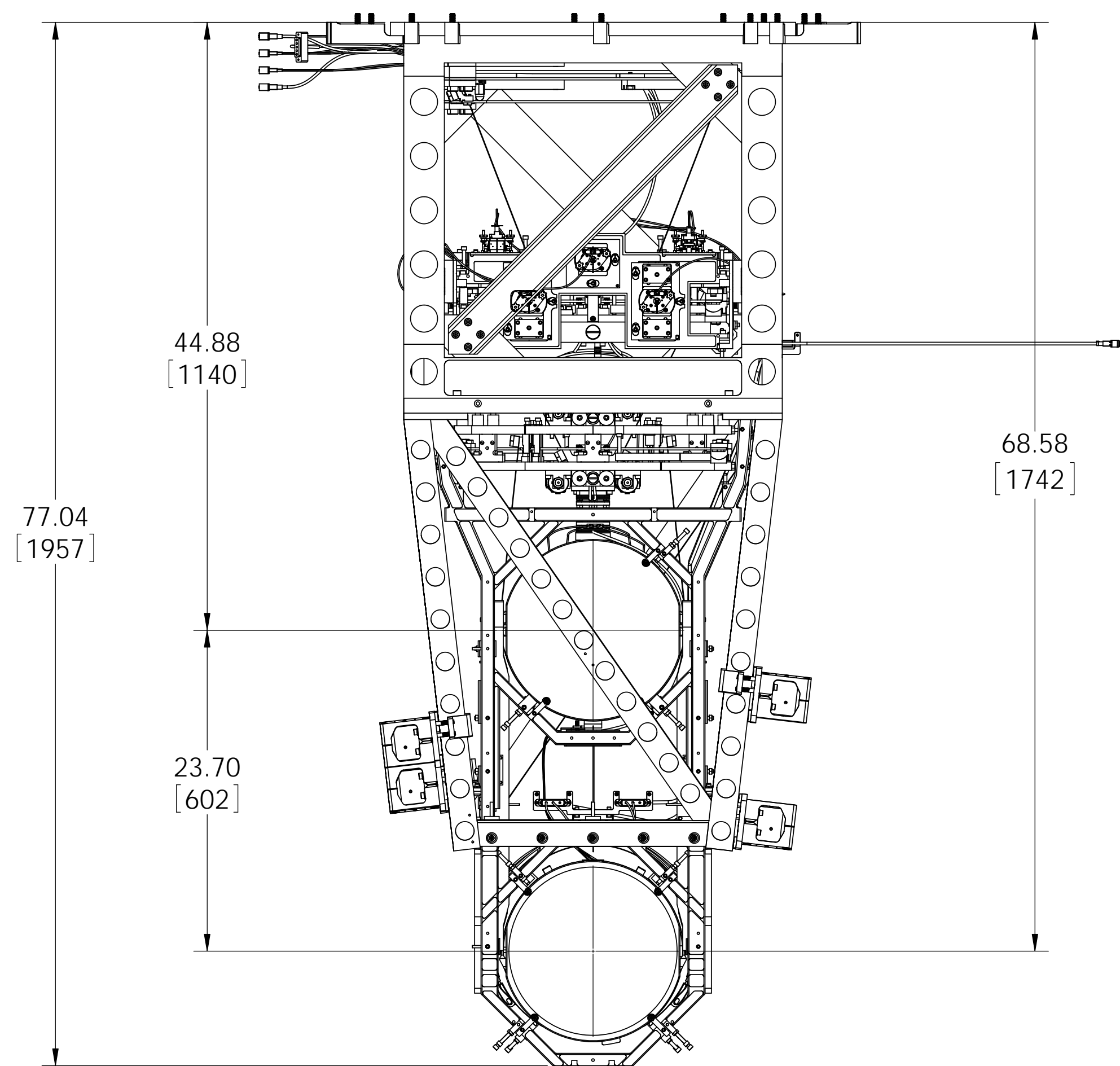
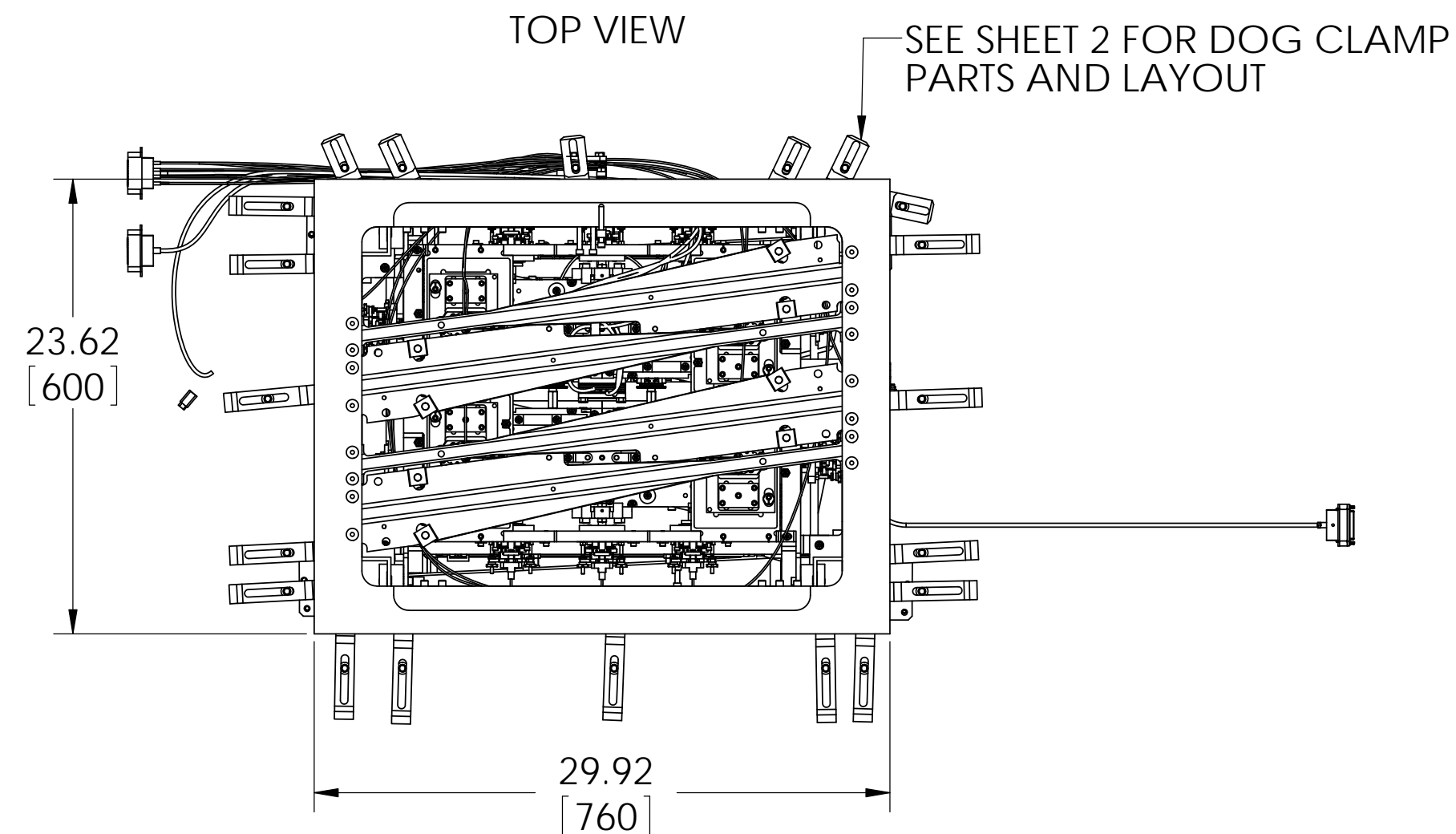


REV.	DATE	DCN #	DRAWING TREE #
v5	21 NOV 2011	-	-
-	-	-	-
-	-	-	-



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
ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	Optical Table Only/QTY.

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)	
1. INTERPRET DRAWING PER ASME Y14.5-1994.	
2. REMOVE ALL SHARP EDGES, .005-.015, FOR MACHINED PARTS. ROUND ALL EDGES APPROXIMATELY R.02 FOR SHEET METAL PARTS.	
3. DO NOT SCALE FROM DRAWING.	
4. 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

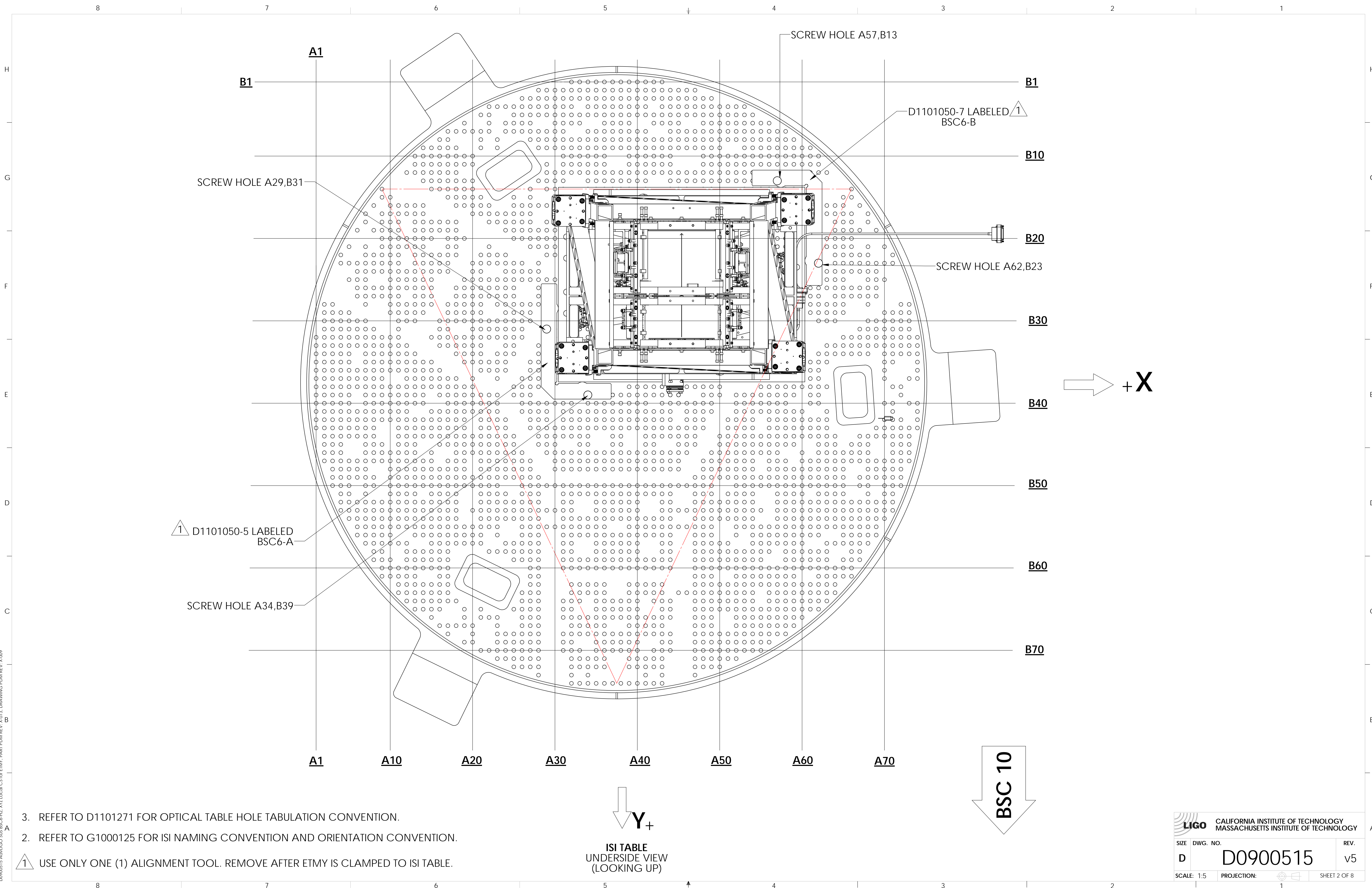
LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SYSTEM: ADVANCED LIGO SUB-SYSTEM: SUS

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

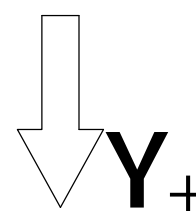
DESIGNER	J.ODELL	9 Aug. 2009	SIZE	DWG. NO.	REV.
DRAFTER	M.HILLARD	30 June 2011	D	D0900515	v5
CHECKER	E.CHAVEZ	30 June 2011			
APPROVAL	C.TORRE	30 June 2011	SCALE: 1:8	PROJECTION:	SHEET 1 OF 8

D0900515-ADV LIGO SUS BSC6-H2, XYZ Local CS for ETMY, PART PDM REV. X.073, DRAWING PDM REV. X.009

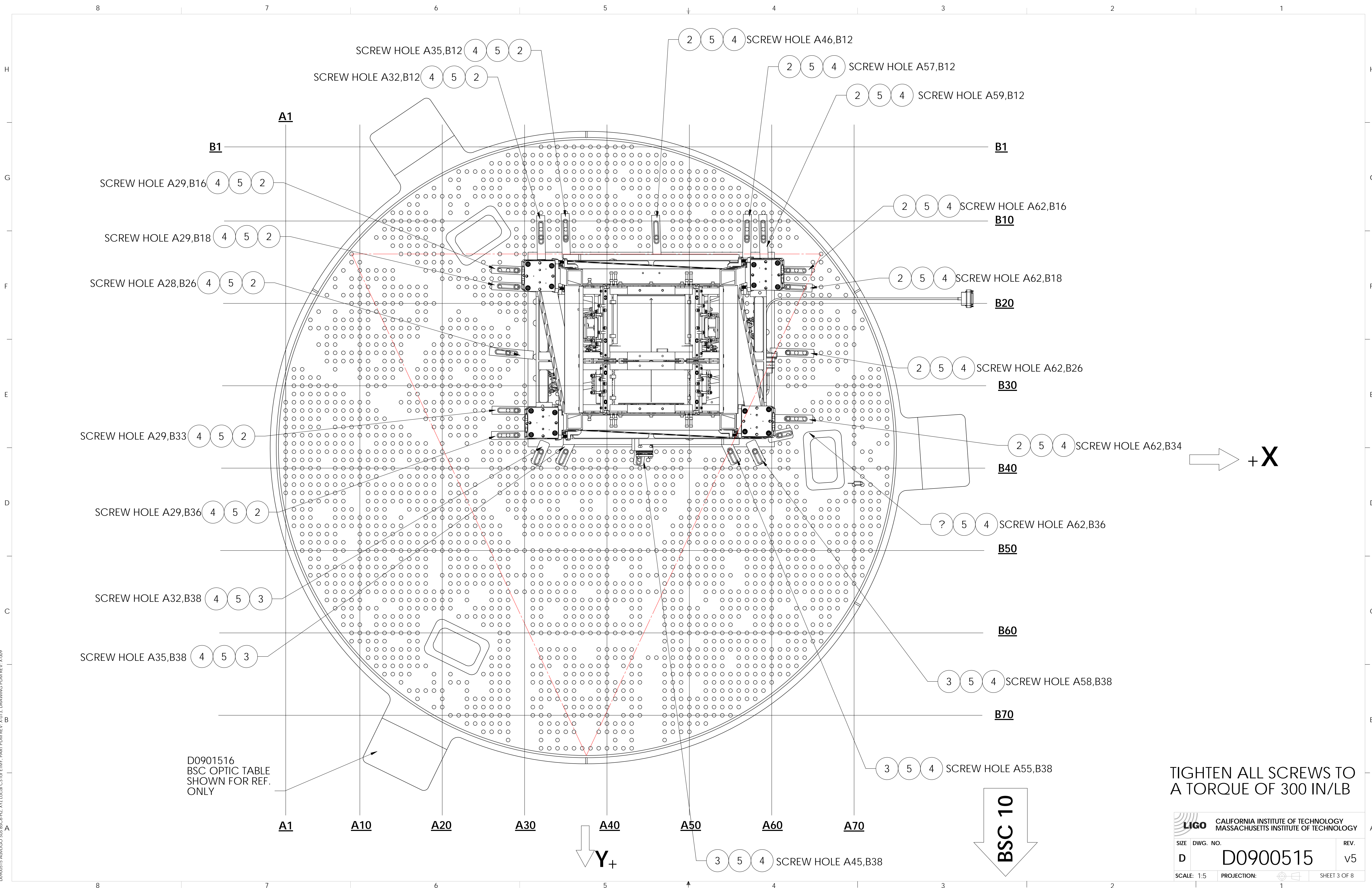


D0900515-ADM/LIGO SLS/BSC6-HZ, XYZ Local CS for ETMY, PART PDM REV. X.073, DRAWING PDM REV. X.009

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.


ISI TABLE
 UNDERSIDE VIEW
 (LOOKING UP)

LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	
SIZE DWG. NO.	REV.
D D0900515	v5
SCALE: 1:5	PROJECTION: SHEET 2 OF 8



SCREW HOLE A35,B12 (4 5 2)
 SCREW HOLE A32,B12 (4 5 2)
 SCREW HOLE A46,B12 (2 5 4)
 SCREW HOLE A57,B12 (2 5 4)
 SCREW HOLE A59,B12 (2 5 4)

SCREW HOLE A29,B16 (4 5 2)
 SCREW HOLE A29,B18 (4 5 2)
 SCREW HOLE A28,B26 (4 5 2)
 SCREW HOLE A29,B33 (4 5 2)
 SCREW HOLE A29,B36 (4 5 2)
 SCREW HOLE A32,B38 (4 5 3)
 SCREW HOLE A35,B38 (4 5 3)
 SCREW HOLE A62,B16 (2 5 4)
 SCREW HOLE A62,B18 (2 5 4)
 SCREW HOLE A62,B26 (2 5 4)
 SCREW HOLE A62,B34 (2 5 4)
 SCREW HOLE A62,B36 (? 5 4)
 SCREW HOLE A58,B38 (3 5 4)
 SCREW HOLE A55,B38 (3 5 4)
 SCREW HOLE A45,B38 (3 5 4)

D0901516
 BSC OPTIC TABLE
 SHOWN FOR REF.
 ONLY

TIGHTEN ALL SCREWS TO
 A TORQUE OF 300 IN/LB

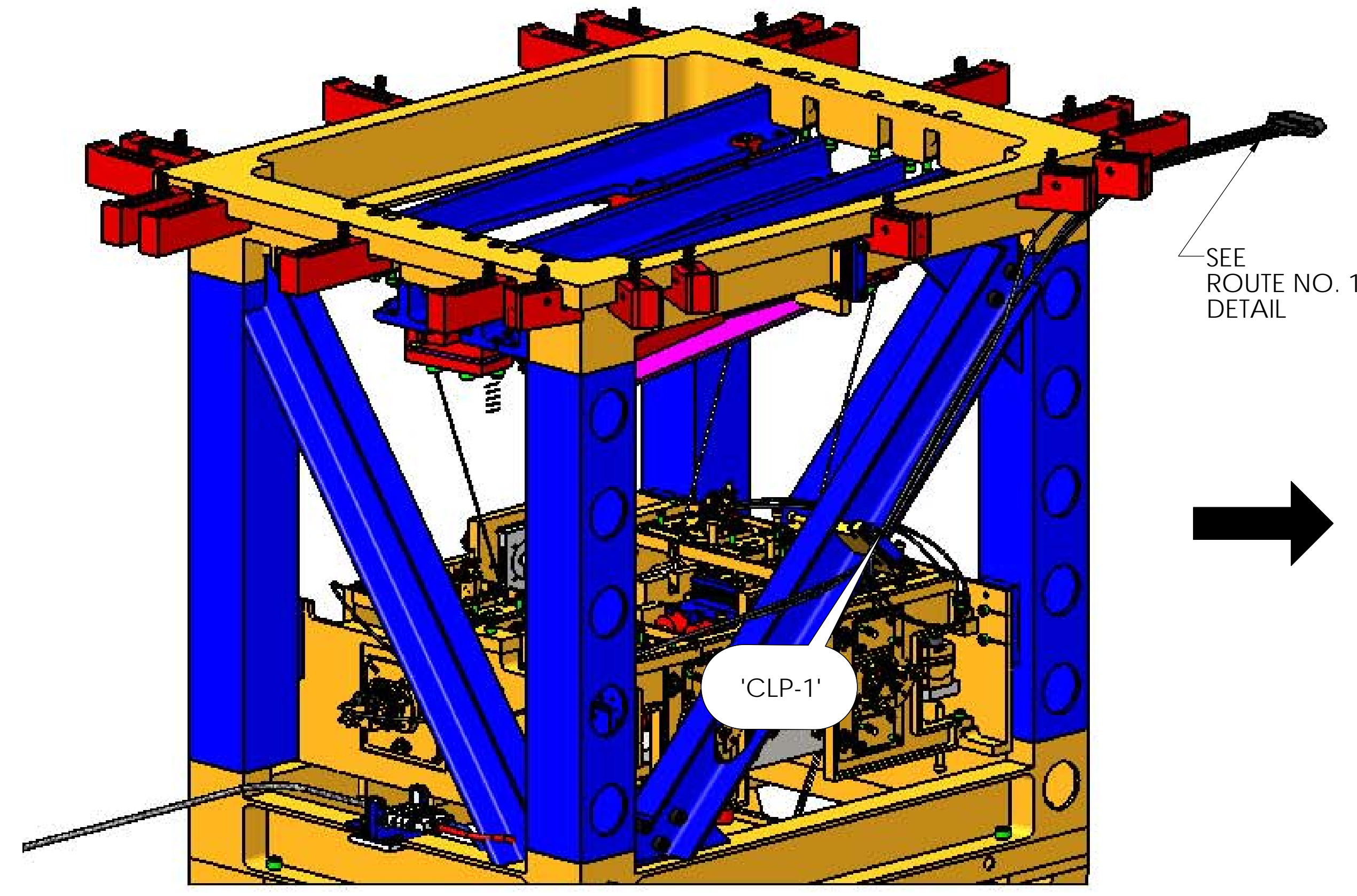
CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		REV.
SIZE	DWG. NO.	v5
D	D0900515	
SCALE: 1:5	PROJECTION:	SHEET 3 OF 8

D0900515-ADM-LIGO SLS-BSC-HZ, XYZ Local CS for ETMY, PART PDM REV. X.073, DRAWING PDM REV. X.009

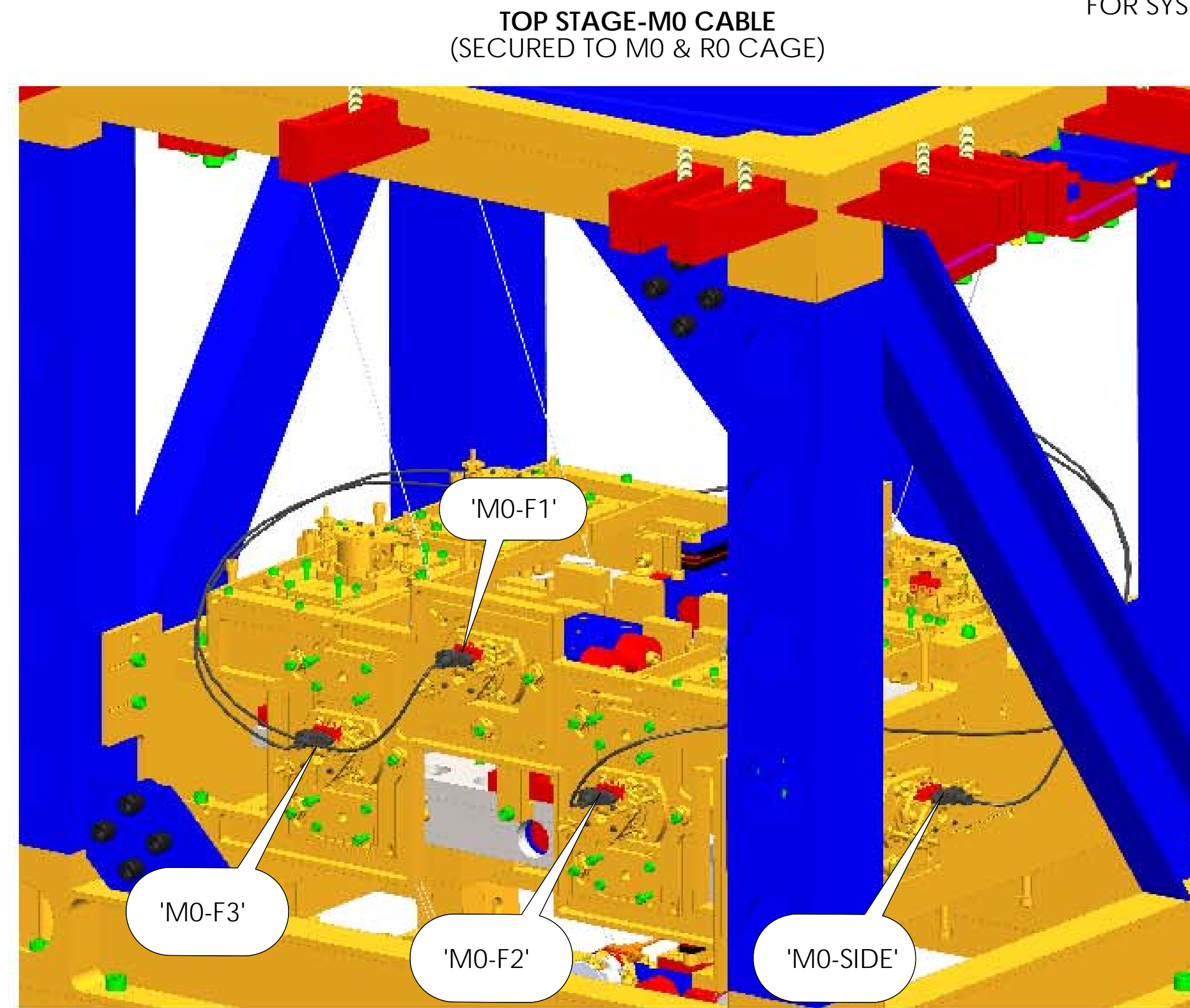
CABLE ROUTING SPECS.: TOP STAGE BOSEM

SEE T1100327 FOR QUAD CABLING PICASSO

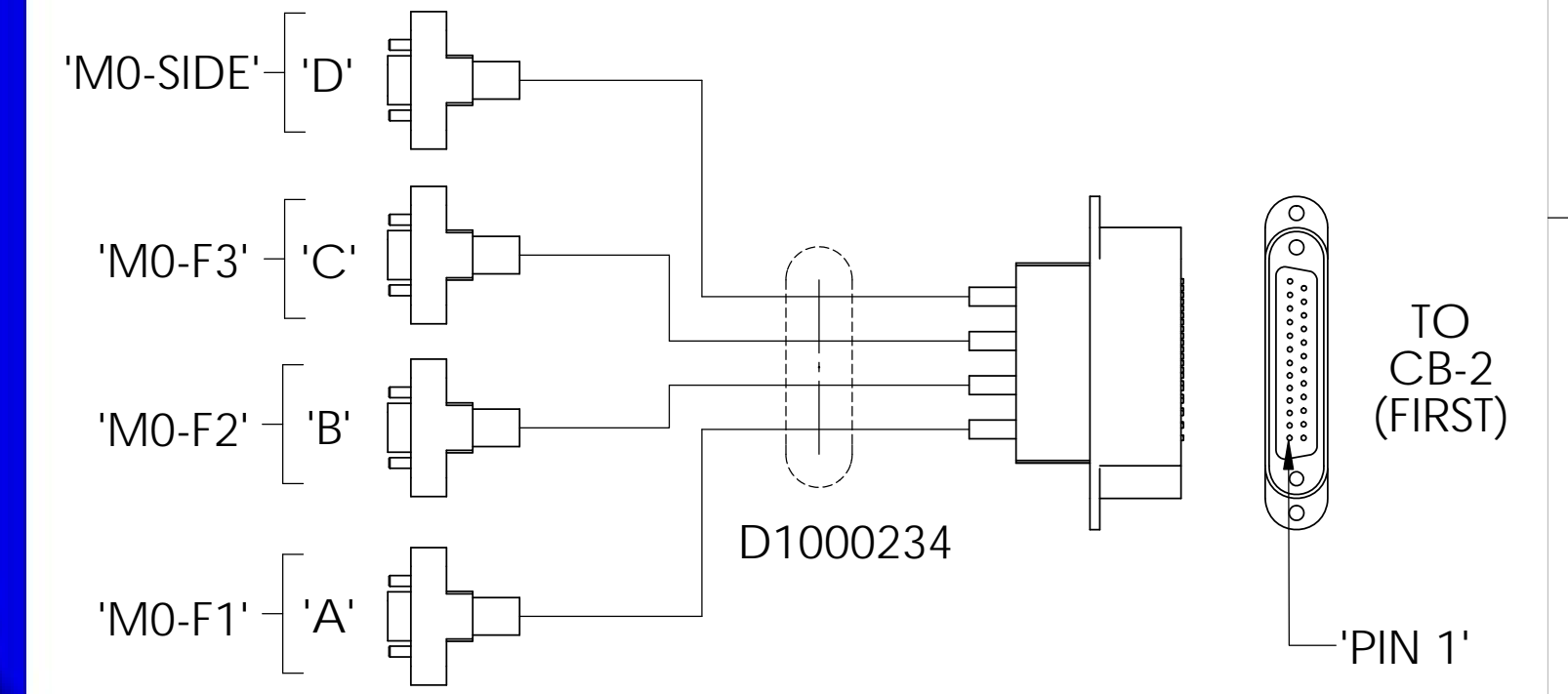
FOR SYSTEM CABLING DIAGRAM, CABLE BRACKET LOCATION/ORIENTATION WRT CHAMBER, SEE D1101478



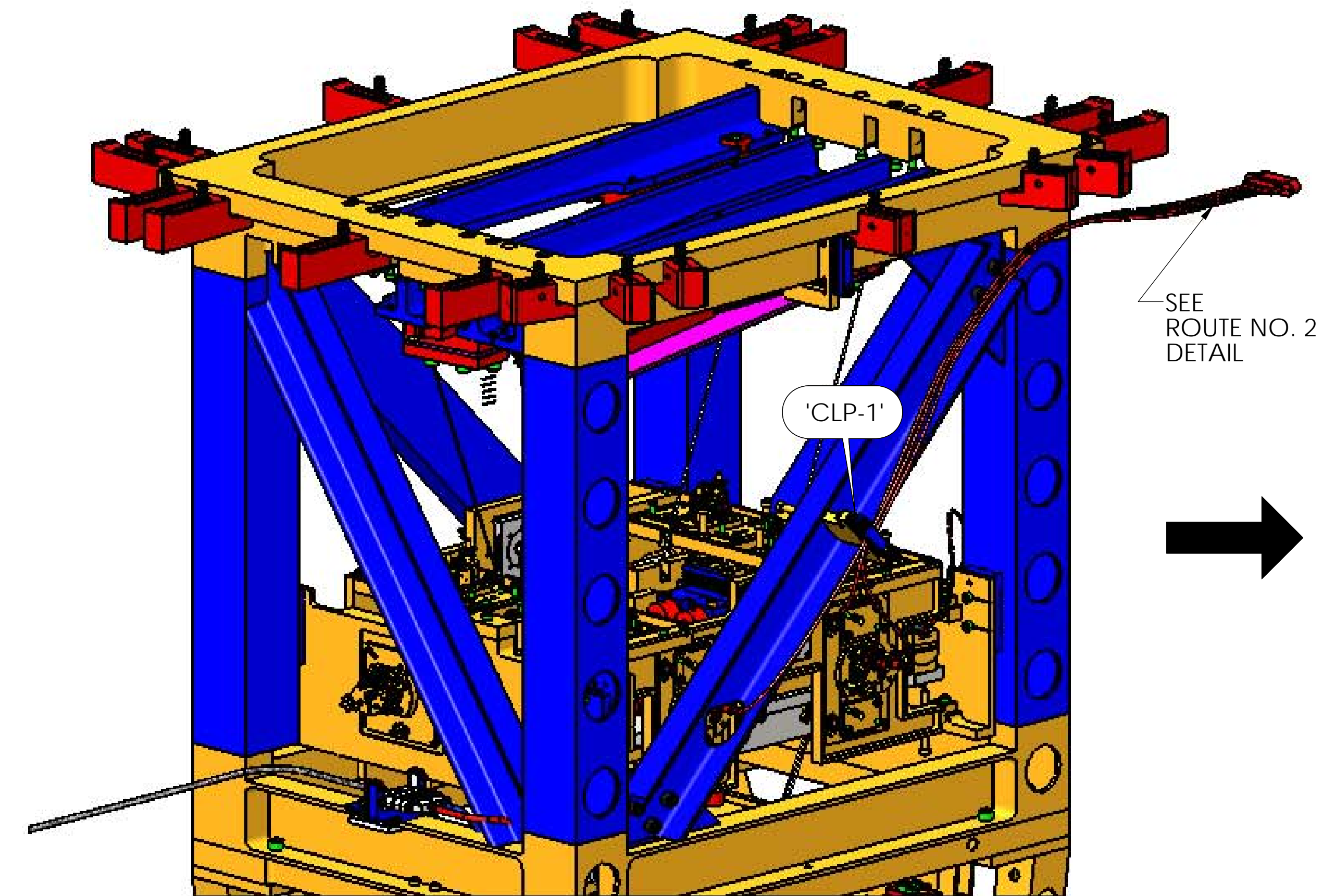
ROUTE CABLE/CABLES THROUGH REFERENCED CABLE CLAMPS



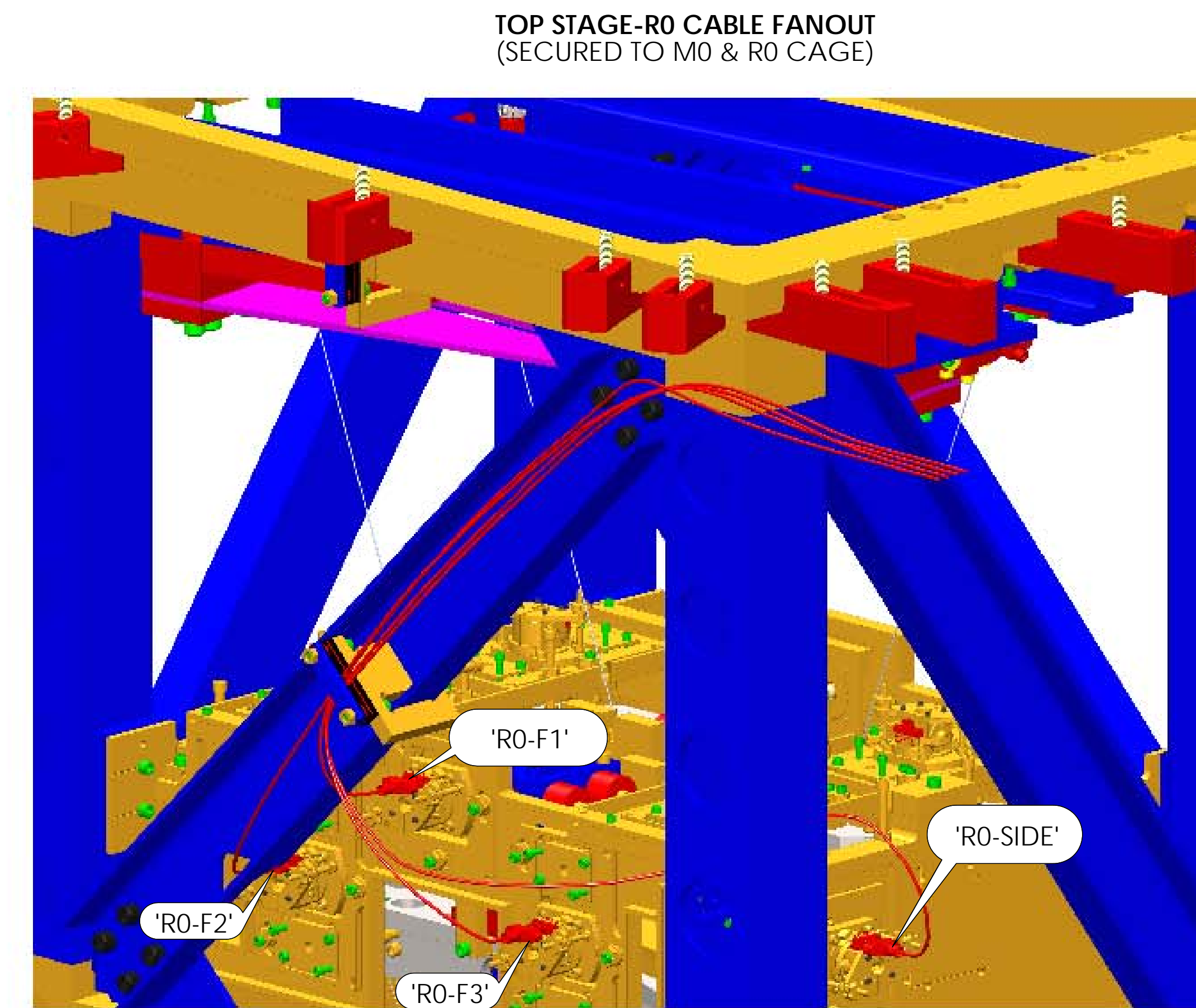
ISO VIEW-REAR



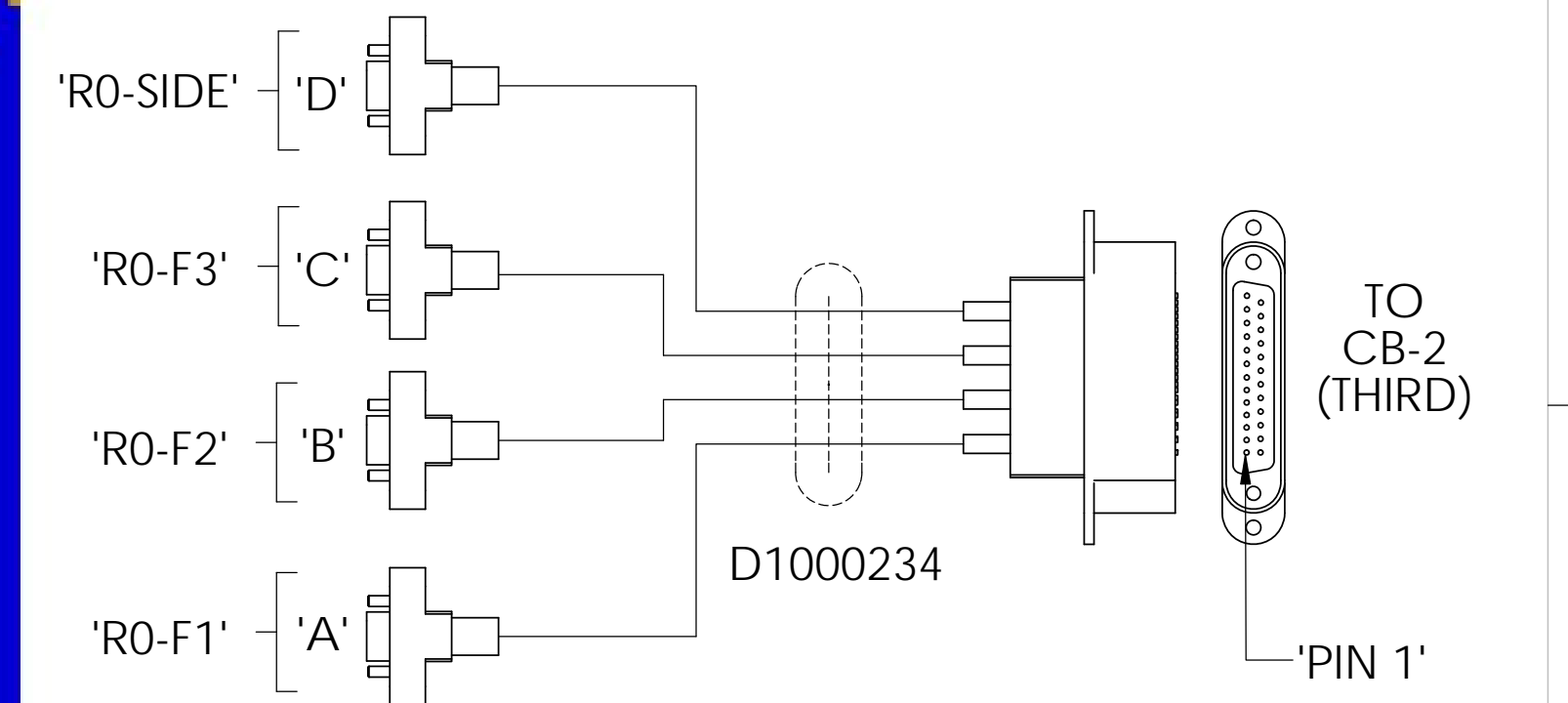
ROUTE NO. 1
(PARTIAL ROUTE-SEE D1101478, FOR COMPLETE ROUTE)



ROUTE CABLE/CABLES THROUGH REFERENCED CABLE CLAMPS



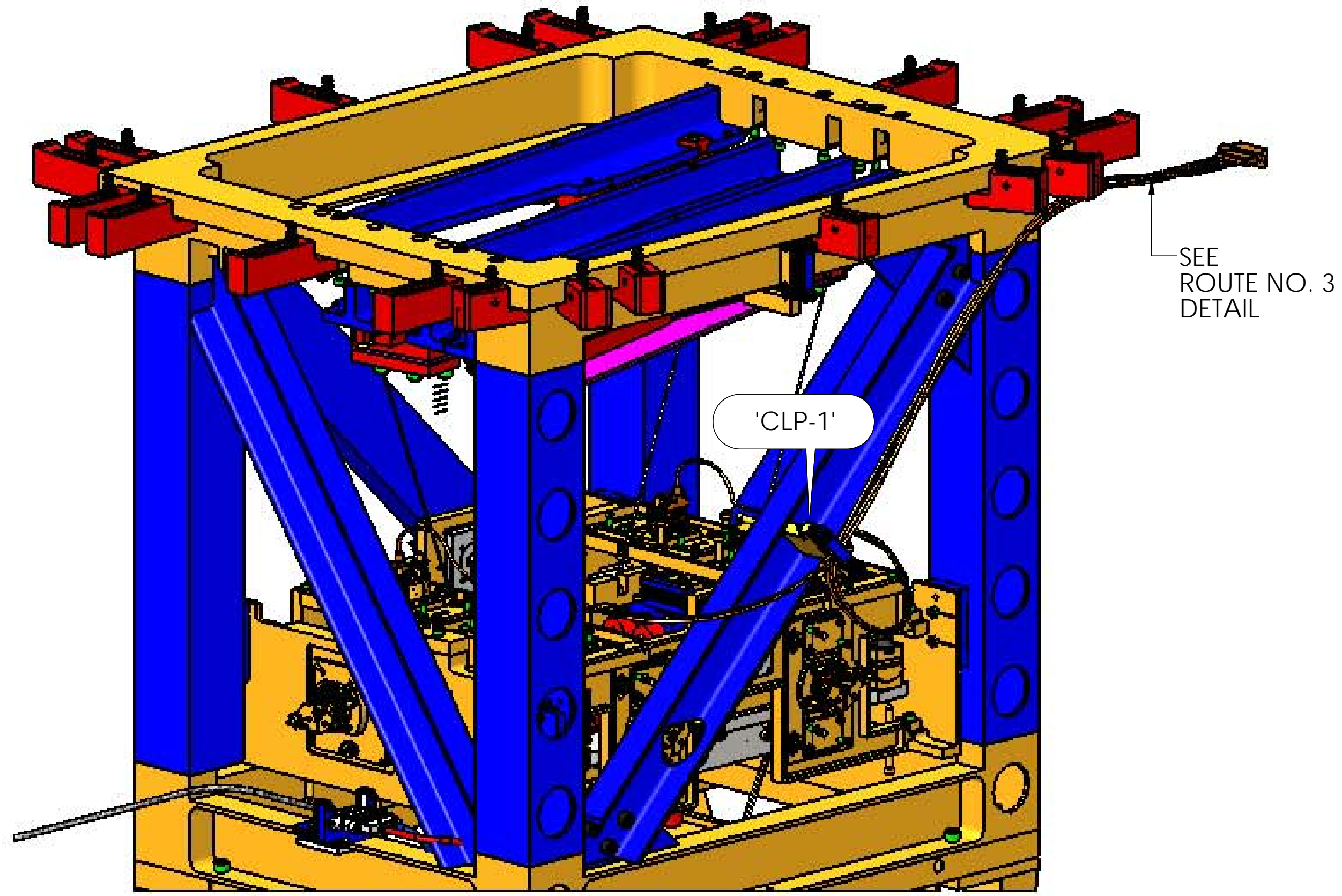
ISO VIEW-FRONT



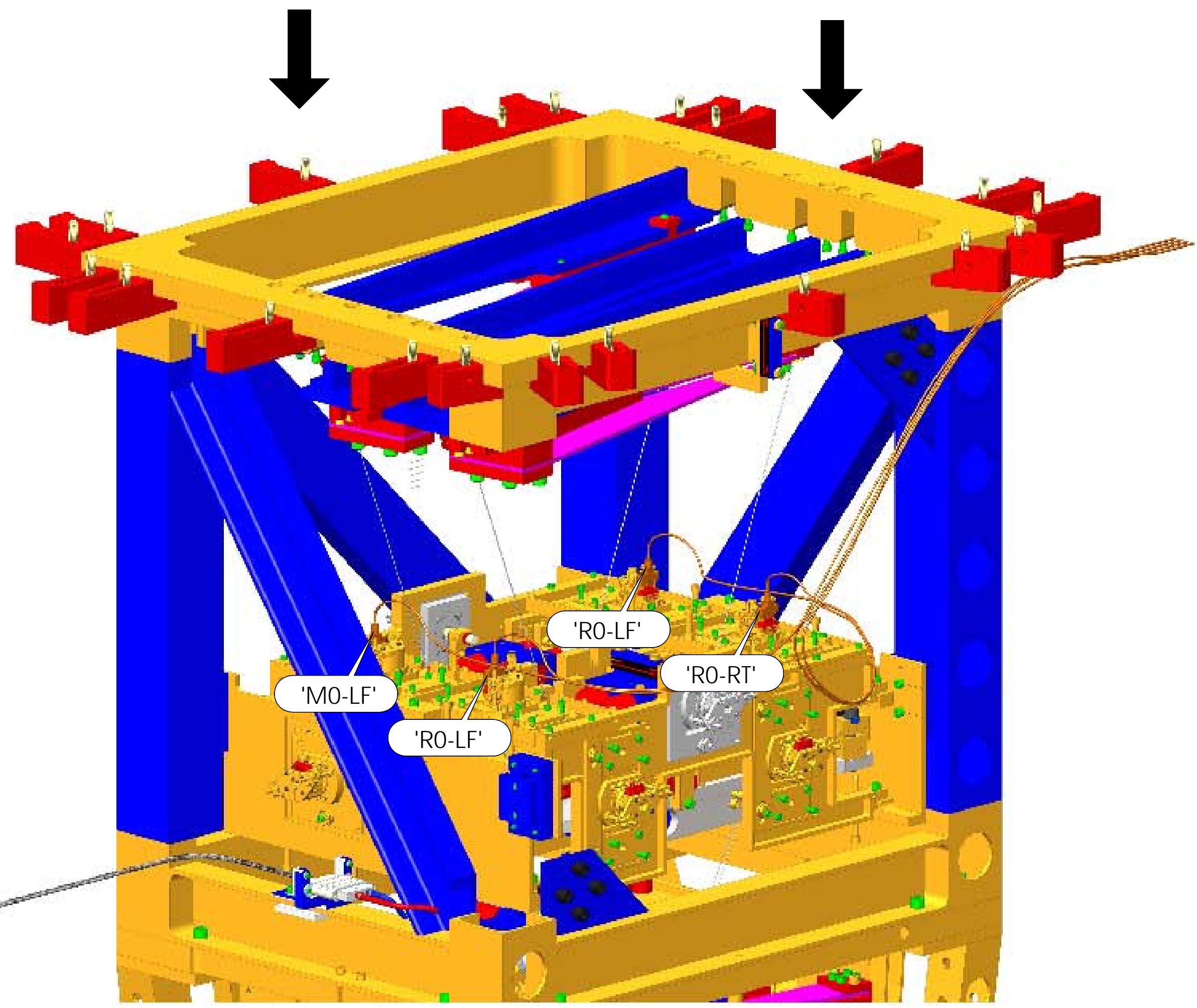
ROUTE NO. 2
(PARTIAL ROUTE-SEE D1101478, FOR COMPLETE ROUTE)

D:\090515_ADM\LIGO_SLS\BCH-H3_XYZ\Local\CS for ETM\PART_PDM\REV_X.073_DRAWING_PDM_REV_X.009

CABLE ROUTING SPECS.: TOP STAGE BOSEM



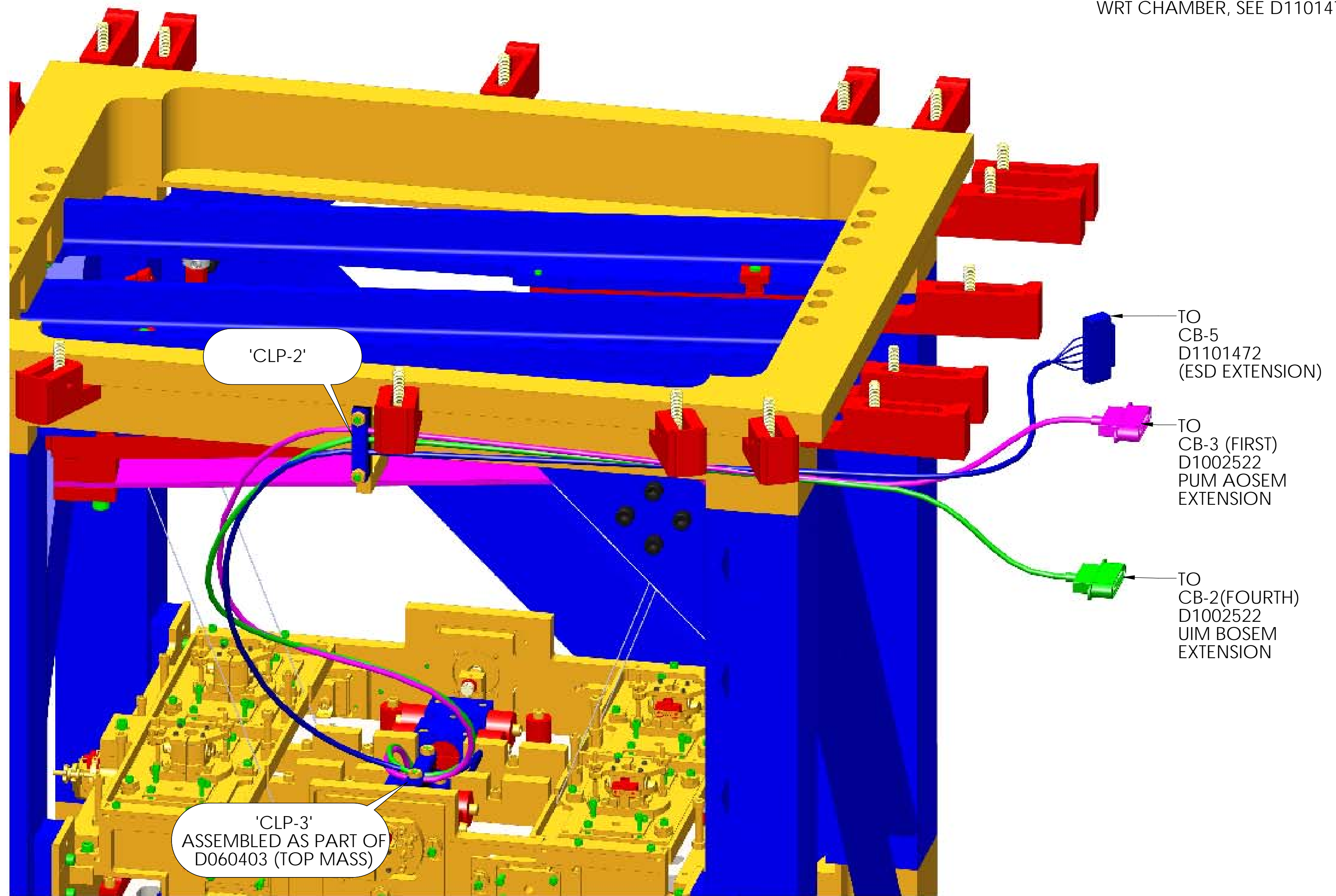
ROUTE CABLE/CABLES THROUGH REFERENCED CABLE CLAMPS



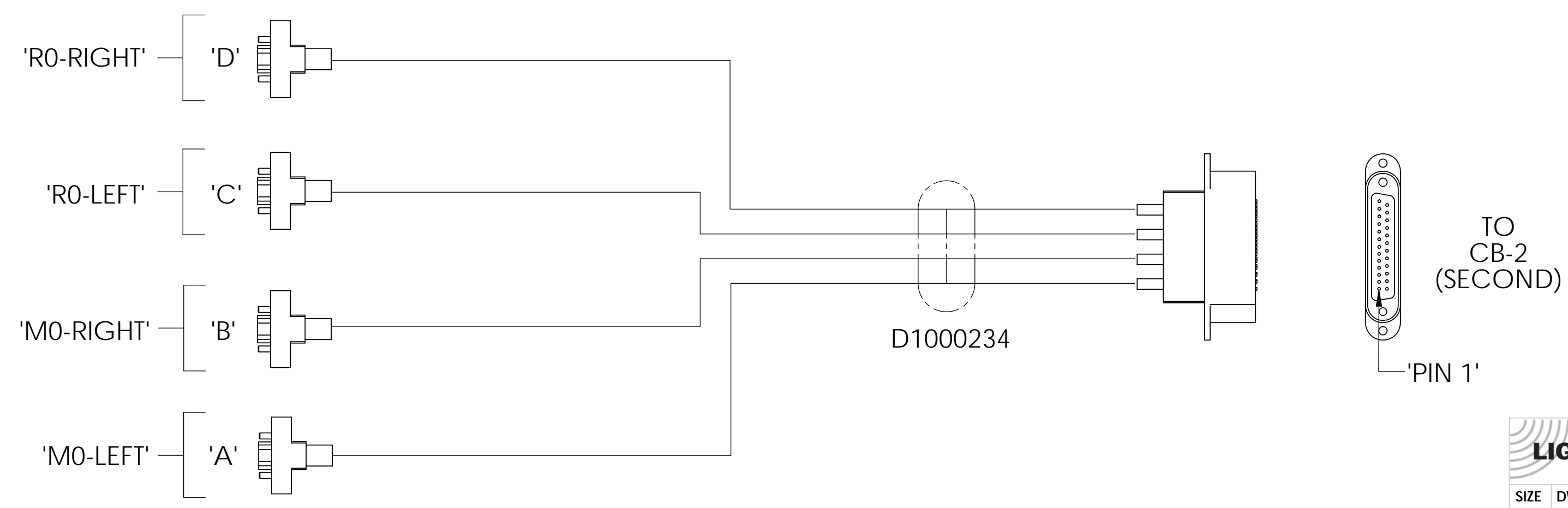
TOP STAGE, M0 / R0 CABLE

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



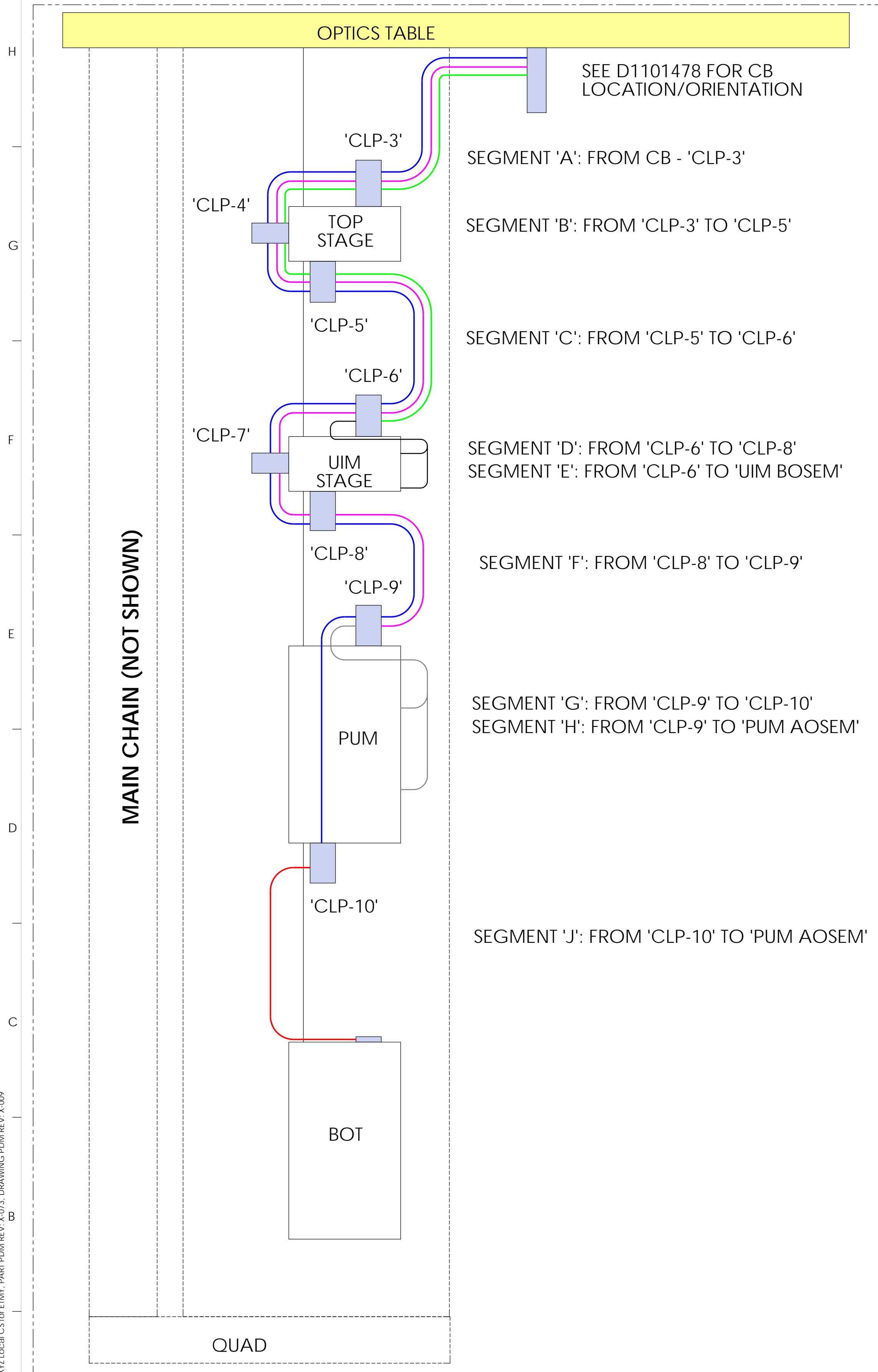
ROUTE NO. 3 DETAIL (PARTIAL ROUTE-SEE D1101478, FOR COMPLETE ROUTE)

CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	
SIZE DWG. NO.	REV.
D D0900515	v5
SCALE: 1:16	PROJECTION:
SHEET 5 OF 8	

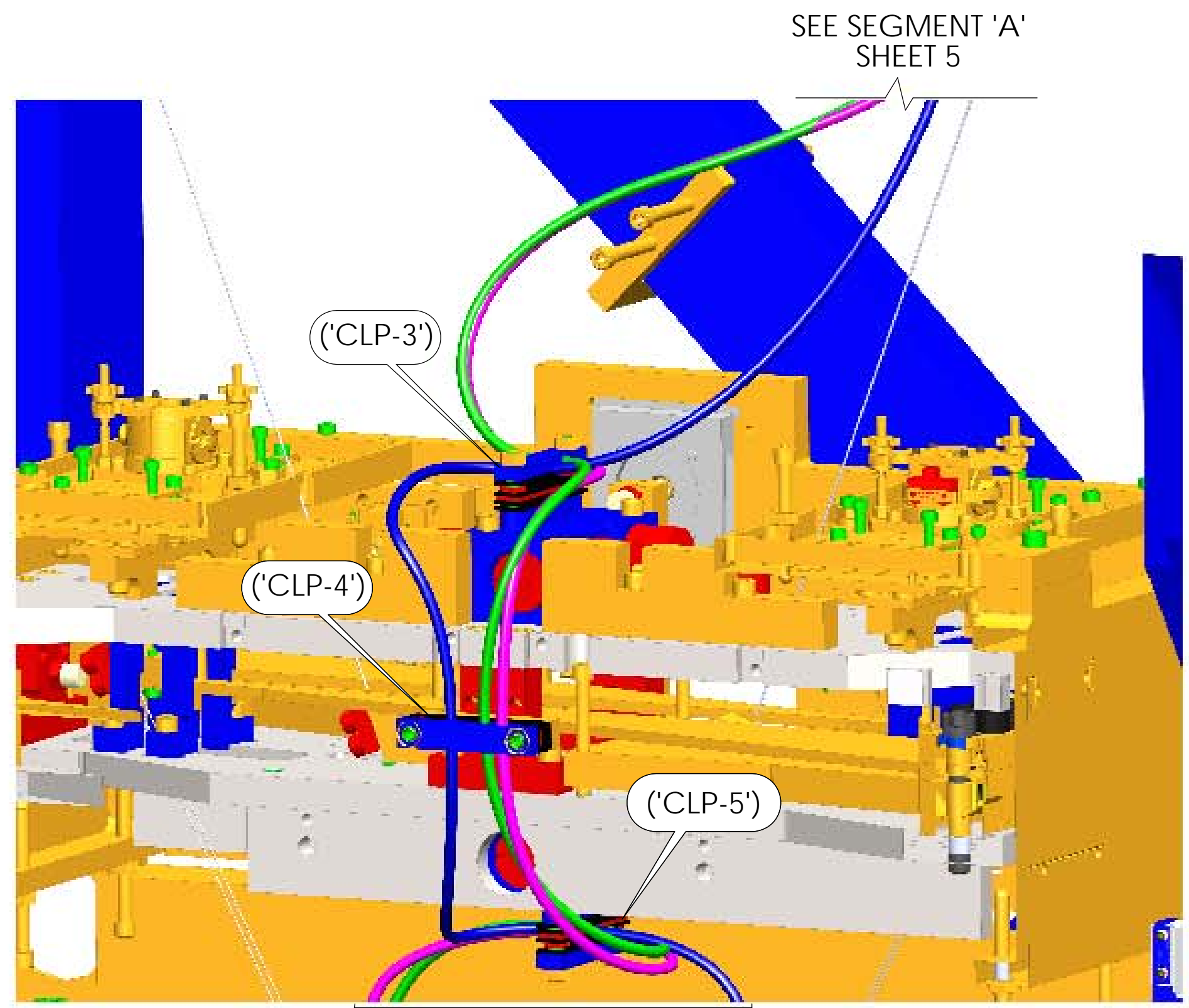
D0900515.ADM/LIGO_SLS/REG-HZ_XYZ/LOCAL_CS_FOR_ETMY_PART_PDM/REV_X.073_DRAWING_PDM/REV_X.009

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.

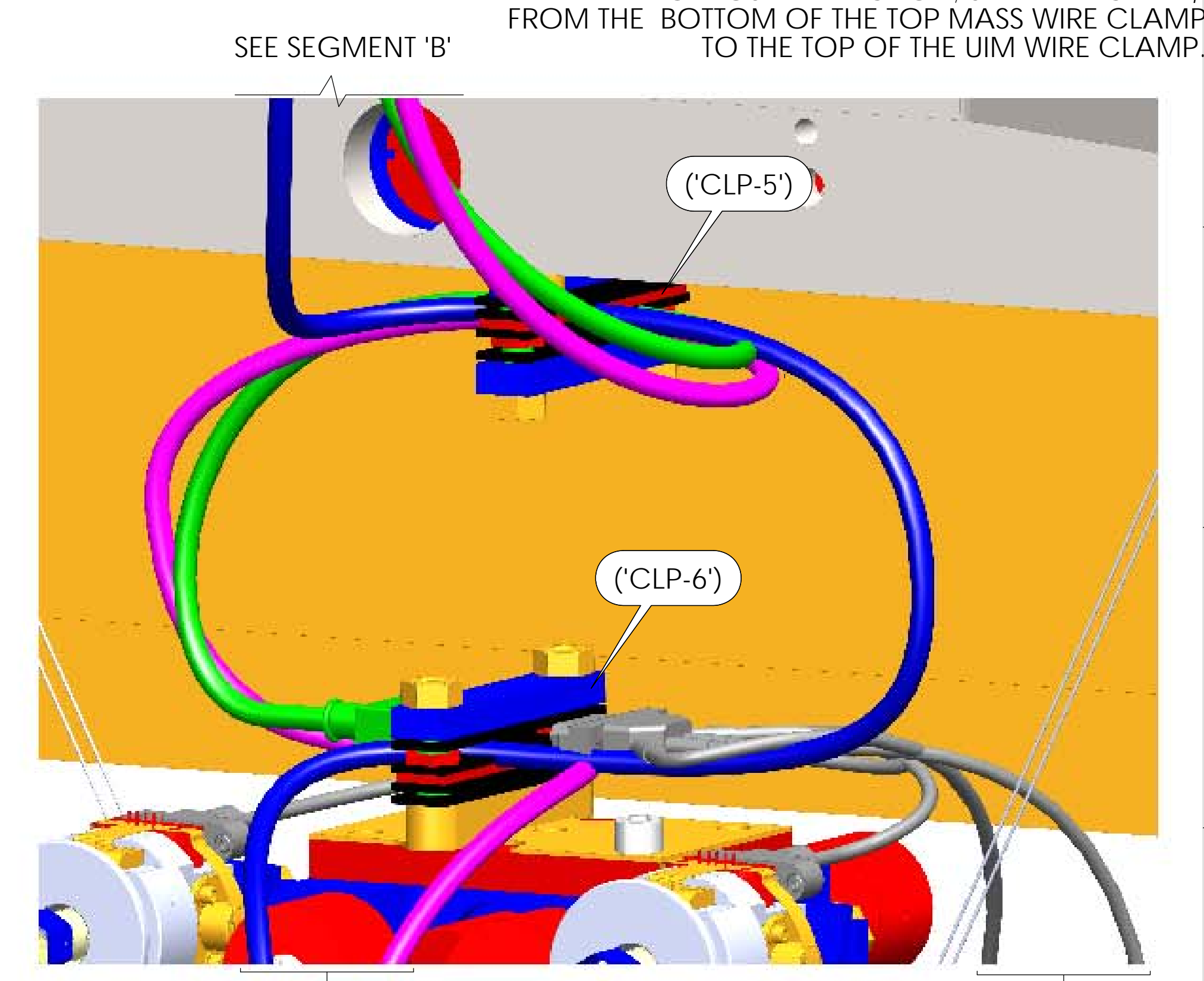


■ ESD CABLE EXTENSION ■ PUM AOSEM EXTENSION ■ UIM BOSEM EXTENSION
■ ESD CABLE ■ PUM AOSEM ■ UIM BOSEM
 SEE T1100327 FOR QUAD CABLING PICASSO.



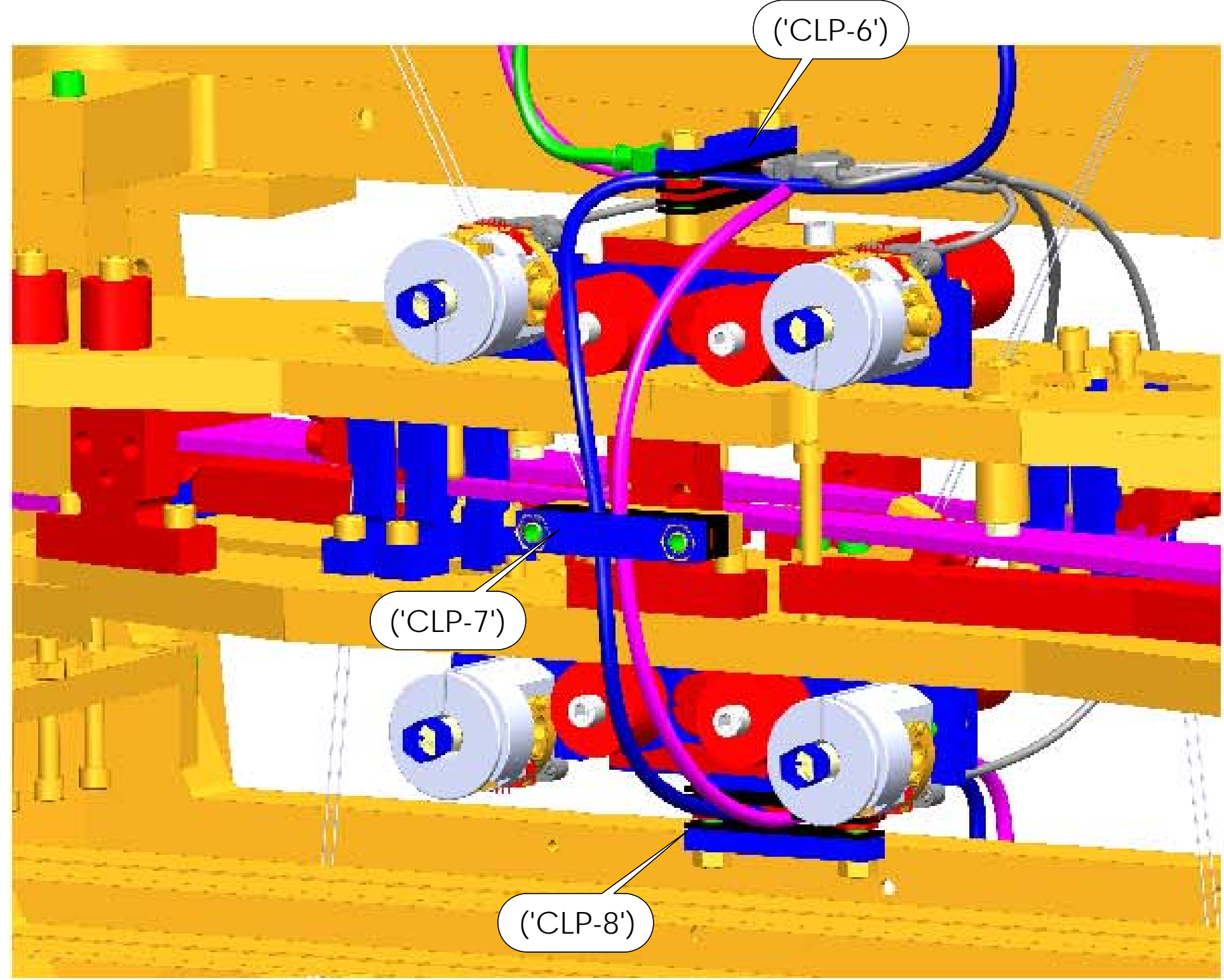
SEE SEGMENT 'C'

SEGMENT 'B': FROM 'CLP-3' TO 'CLP-5'
 AS VIEW BEHIND RE CHAIN
 CLP-3, CLP-4 AND CLP-5 ARE PART OF D060403
 (ROUTE CABLE/CABLES THROUGH REFERENCED CABLE CLAMPS)

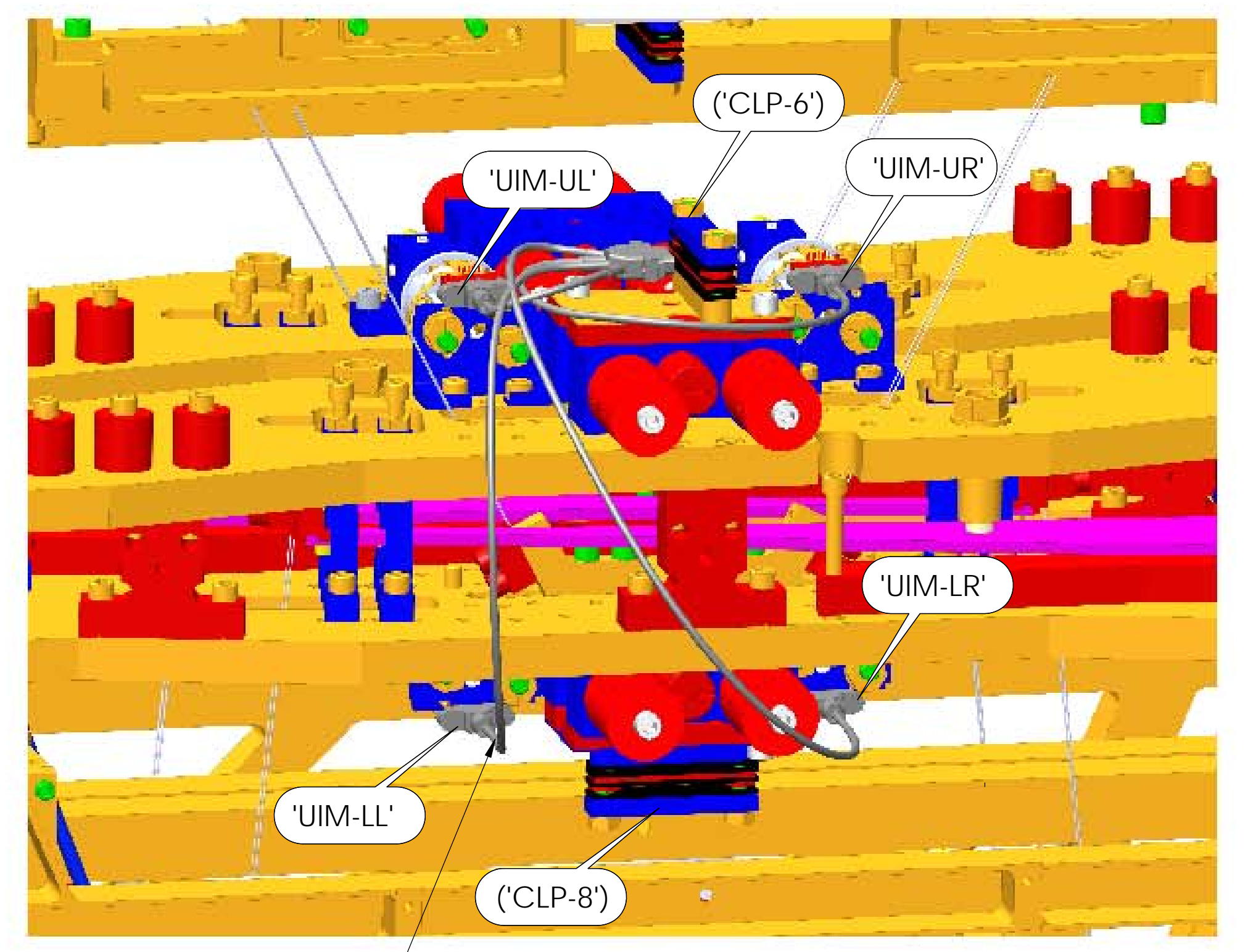


SEE SEGMENT 'D'

SEGMENT 'C': FROM 'CLP-5' TO 'CLP-6'
 AS VIEW BEHIND RE CHAIN
 CLP-6 IS PART OF D1101129
 (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 PART OF D1101129
 (ROUTE CABLE/CABLES THROUGH REFERENCED CABLE CLAMPS)

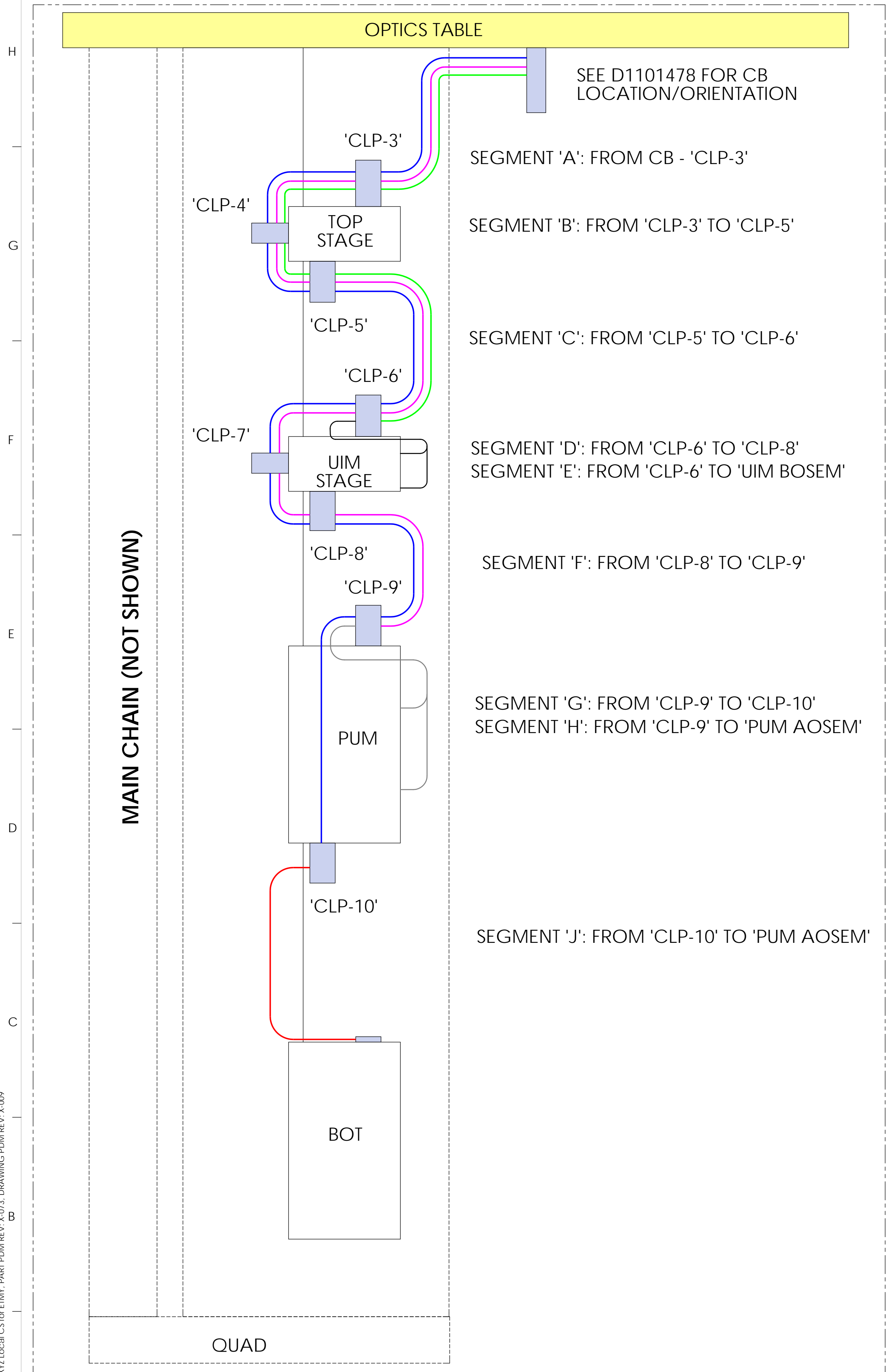


SEE SHEET 8, ROUTE NO. 4 UIM BOSEM-DETAIL

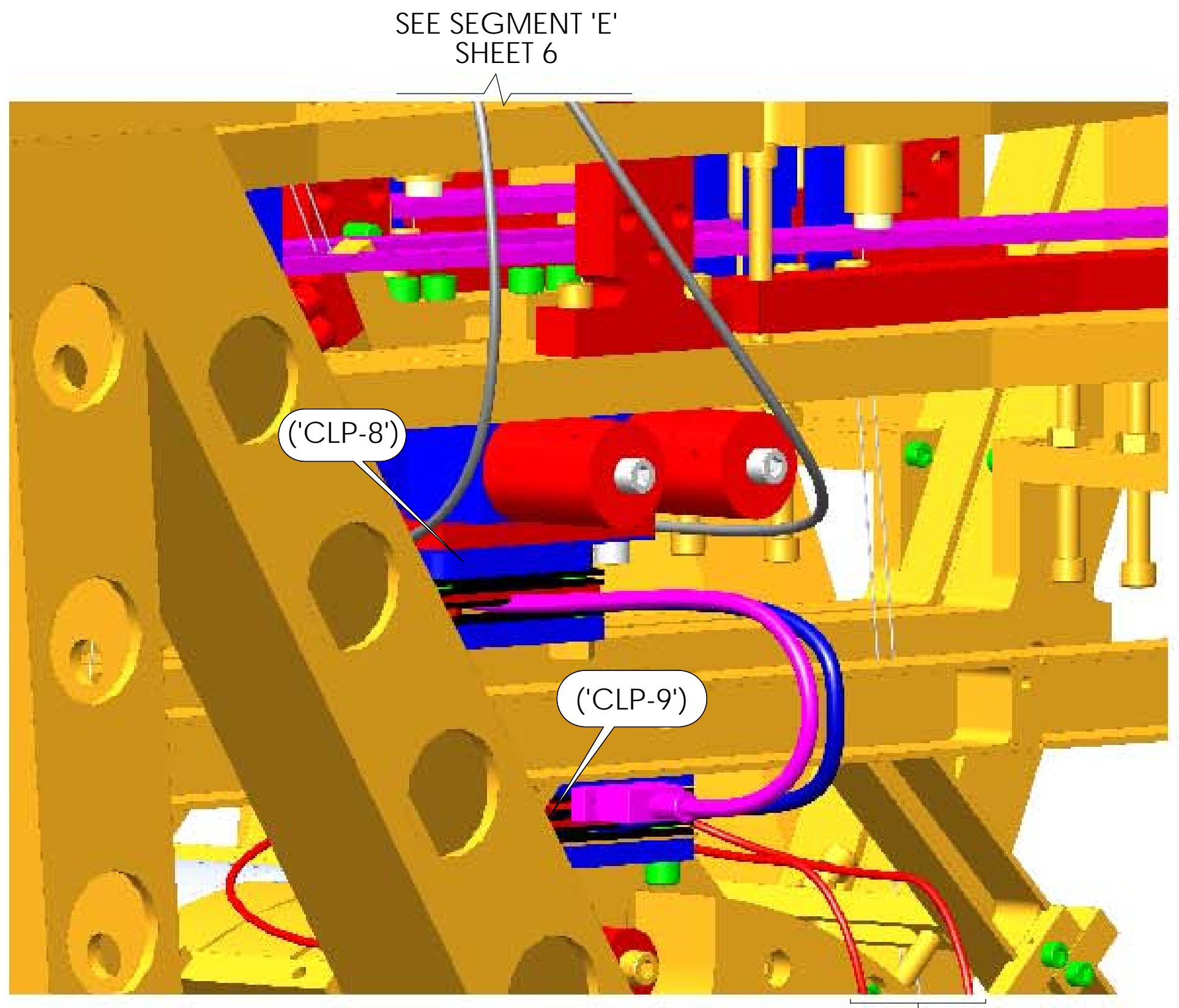
SEGMENT 'E': FROM 'CLP-6' TO UIM BOSEM

CALIFORNIA INSTITUTE OF TECHNOLOGY
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY
 SIZE DWG. NO. **D0900515** REV. **v5**
 SCALE: 1:16 PROJECTION: SHEET 6 OF 8

CABLE ROUTING SPECS.: CABLING (UP REACTION CHAIN)



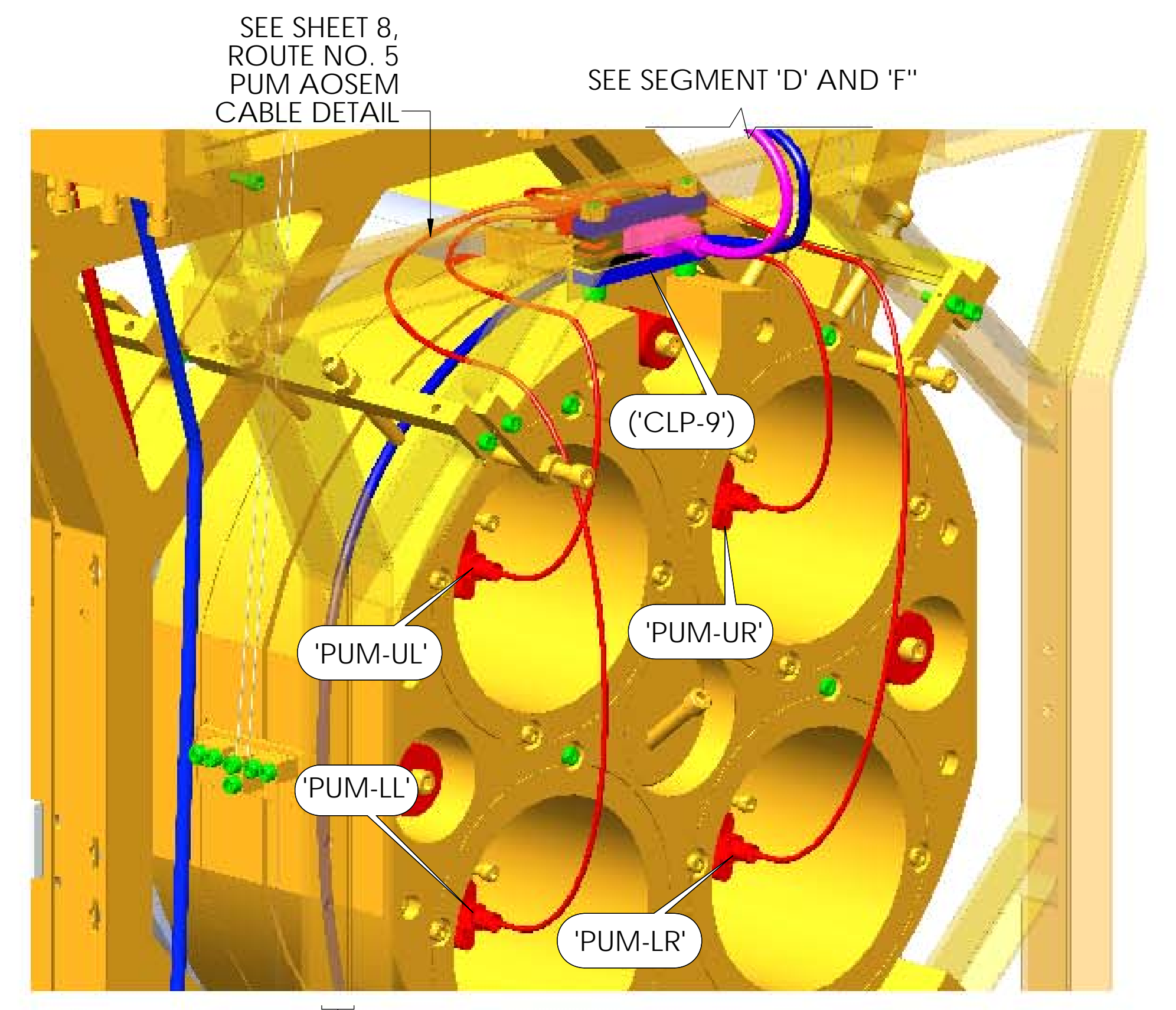
■ ESD CABLE EXTENSION ■ PUM AOSEM EXTENSION ■ UIM BOSEM EXTENSION
■ ESD CABLE ■ PUM AOSEM ■ UIM BOSEM
 SEE T1100327 FOR QUAD CABLING PICASSO.



SEE SEGMENT 'H'

SEGMENT 'F': FROM 'CLP-8' TO 'CLP-9'

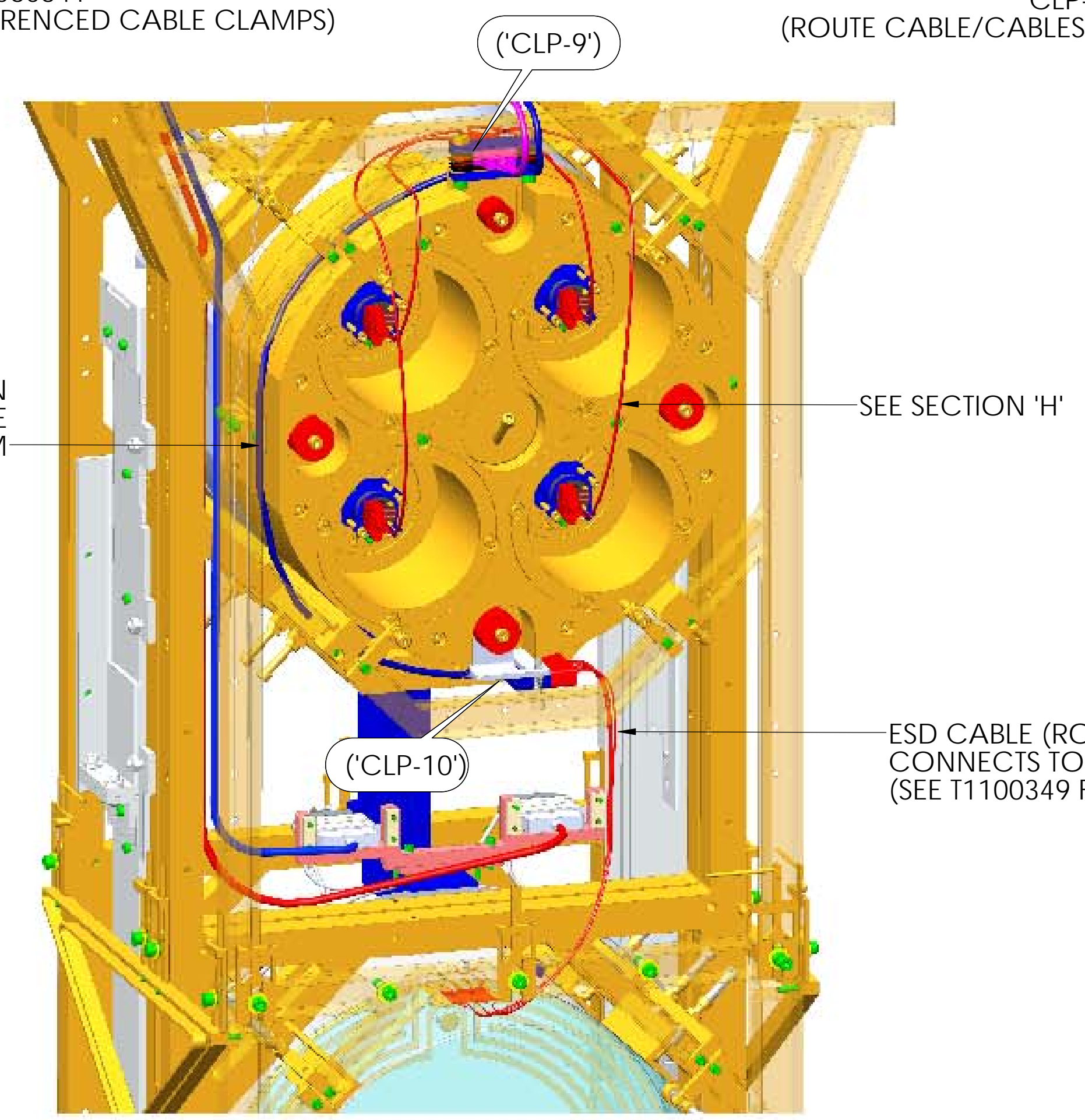
CLP-9 IS PART OF D060341
(ROUTE CABLE/CABLES THROUGH REFERENCED CABLE CLAMPS)



SEE SEGMENT 'J'

SEGMENT 'H': FROM 'CLP-9' TO 'PUM AOSEM'

CLP-9 IS PART OF D060341
(ROUTE CABLE/CABLES THROUGH REFERENCED CABLE CLAMPS)



SEGMENT 'J': FROM 'CLP-5' TO 'CLP-6'

CLP-9 AND CLP-10 ARE BOTH PART OF D060341
(ROUTE CABLE/CABLES THROUGH REFERENCED CABLE CLAMPS)

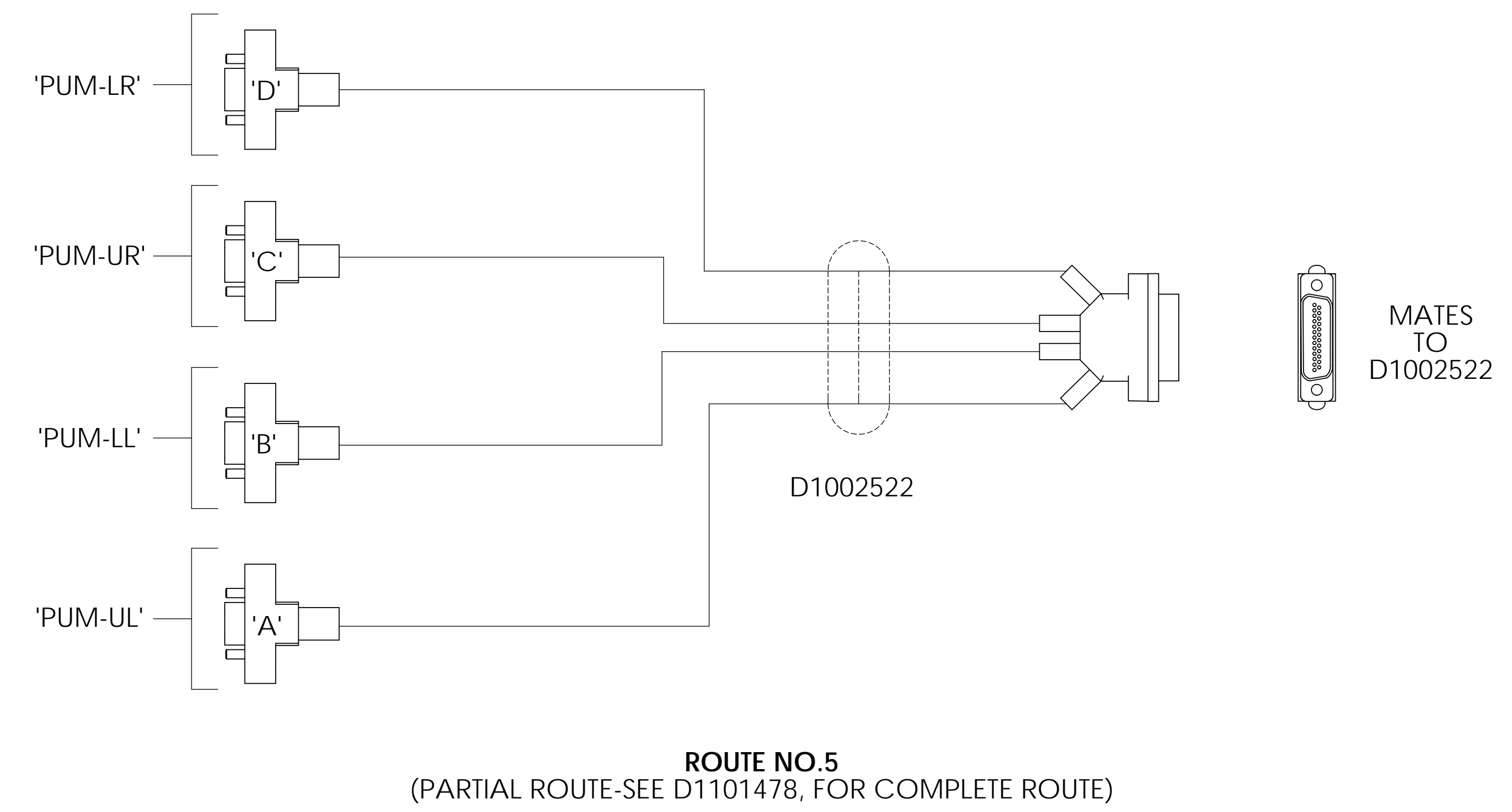
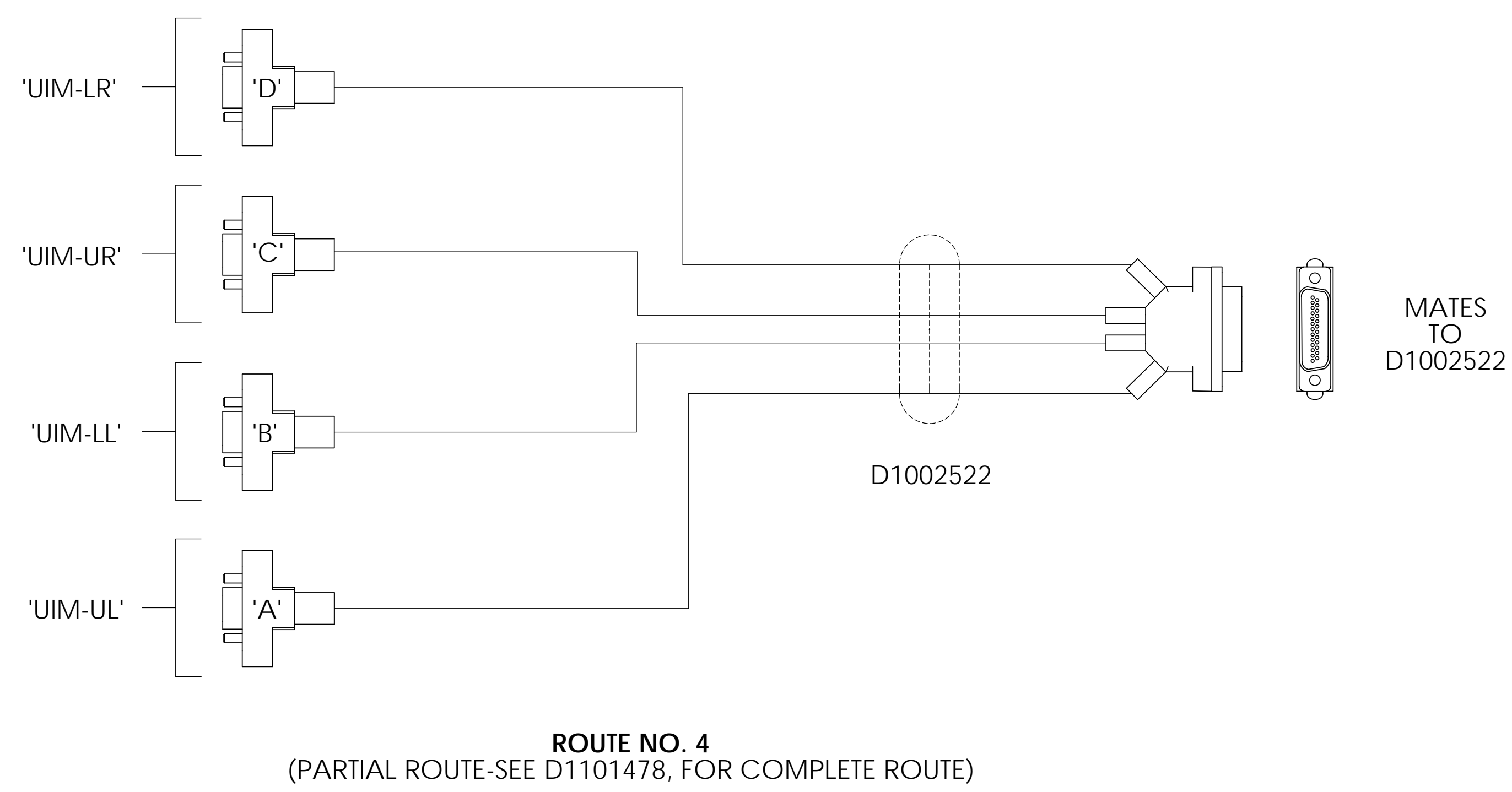


TABLE 1: BSC6 ETMY CABLING SPECIFICATIONS, FROM/TO DES.

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-LL			D			
6	D1002225	D1101472	CB-5	N/A	N/A	N/A	175

D0900515-ADM-LIGO SLS-BSC6-ETMY.XYZ Local CS for ETMY. PART PDM REV. X.073. DRAWING PDM REV. X.009