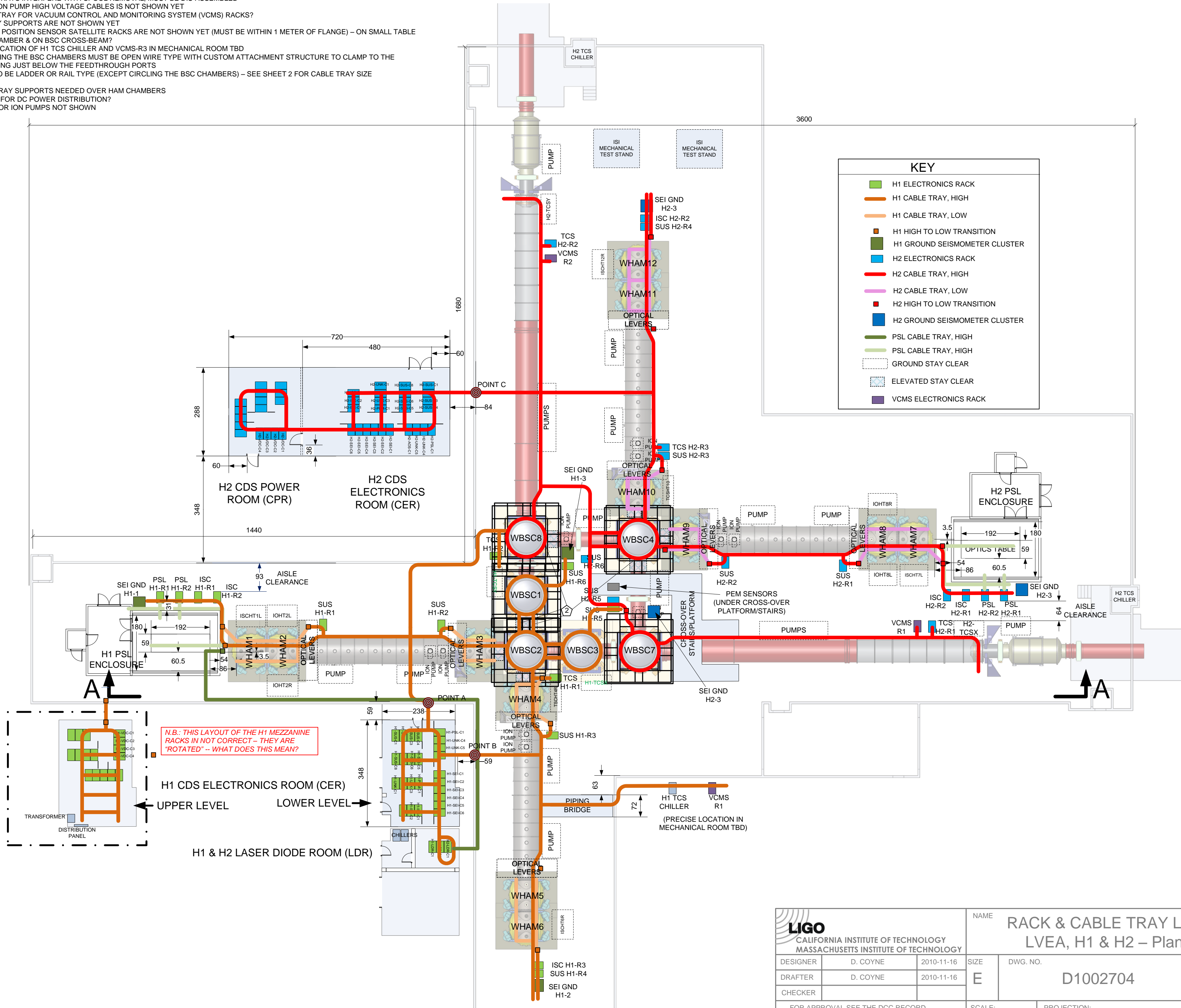


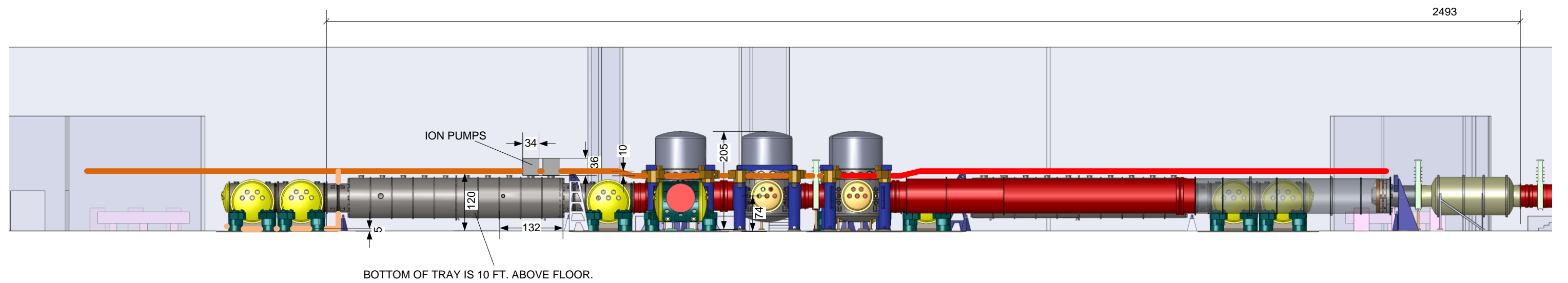
NOTES:

- 1) ALL DIMENSIONS ARE IN INCHES
- 2) SOME BSC TRAYS INTERFERE WITH SPOOL REMOVAL; MUST BE DIS-ASSEMBLED
- 3) TRAY FOR ION PUMP HIGH VOLTAGE CABLES IS NOT SHOWN YET
- 4) SEPARATE TRAY FOR VACUUM CONTROL AND MONITORING SYSTEM (VCMS) RACKS?
- 5) CABLE TRAY SUPPORTS ARE NOT SHOWN YET
- 6) CAPACITIVE POSITION SENSOR SATELLITE RACKS ARE NOT SHOWN YET (MUST BE WITHIN 1 METER OF FLANGE) – ON SMALL TABLE NEAR HAM CHAMBER & ON BSC CROSS-BEAM?
- 7) PRECISE LOCATION OF H1 TCS CHILLER AND VCMS-R3 IN MECHANICAL ROOM TBD
- 8) TRAY CIRCLING THE BSC CHAMBERS MUST BE OPEN WIRE TYPE WITH CUSTOM ATTACHMENT STRUCTURE TO CLAMP TO THE STIFFENING RING JUST BELOW THE FEEDTHROUGH PORTS
- 9) ALL TRAY TO BE LADDER OR RAIL TYPE (EXCEPT CIRCLING THE BSC CHAMBERS) – SEE SHEET 2 FOR CABLE TRAY SIZE INFORMATION
- 10) CUSTOM TRAY SUPPORTS NEEDED OVER HAM CHAMBERS
- 11) CONDUITS FOR DC POWER DISTRIBUTION?
- 12) HV TRAY FOR ION PUMPS NOT SHOWN




KEY	
■	H1 ELECTRONICS RACK
—	H1 CABLE TRAY, HIGH
—	H1 CABLE TRAY, LOW
■	H1 HIGH TO LOW TRANSITION
■	H1 GROUND SEISMOMETER CLUSTER
■	H2 ELECTRONICS RACK
—	H2 CABLE TRAY, HIGH
—	H2 CABLE TRAY, LOW
■	H2 HIGH TO LOW TRANSITION
■	H2 GROUND SEISMOMETER CLUSTER
—	PSL CABLE TRAY, HIGH
—	PSL CABLE TRAY, HIGH
	GROUND STAY CLEAR
	ELEVATED STAY CLEAR
■	VCMS ELECTRONICS RACK

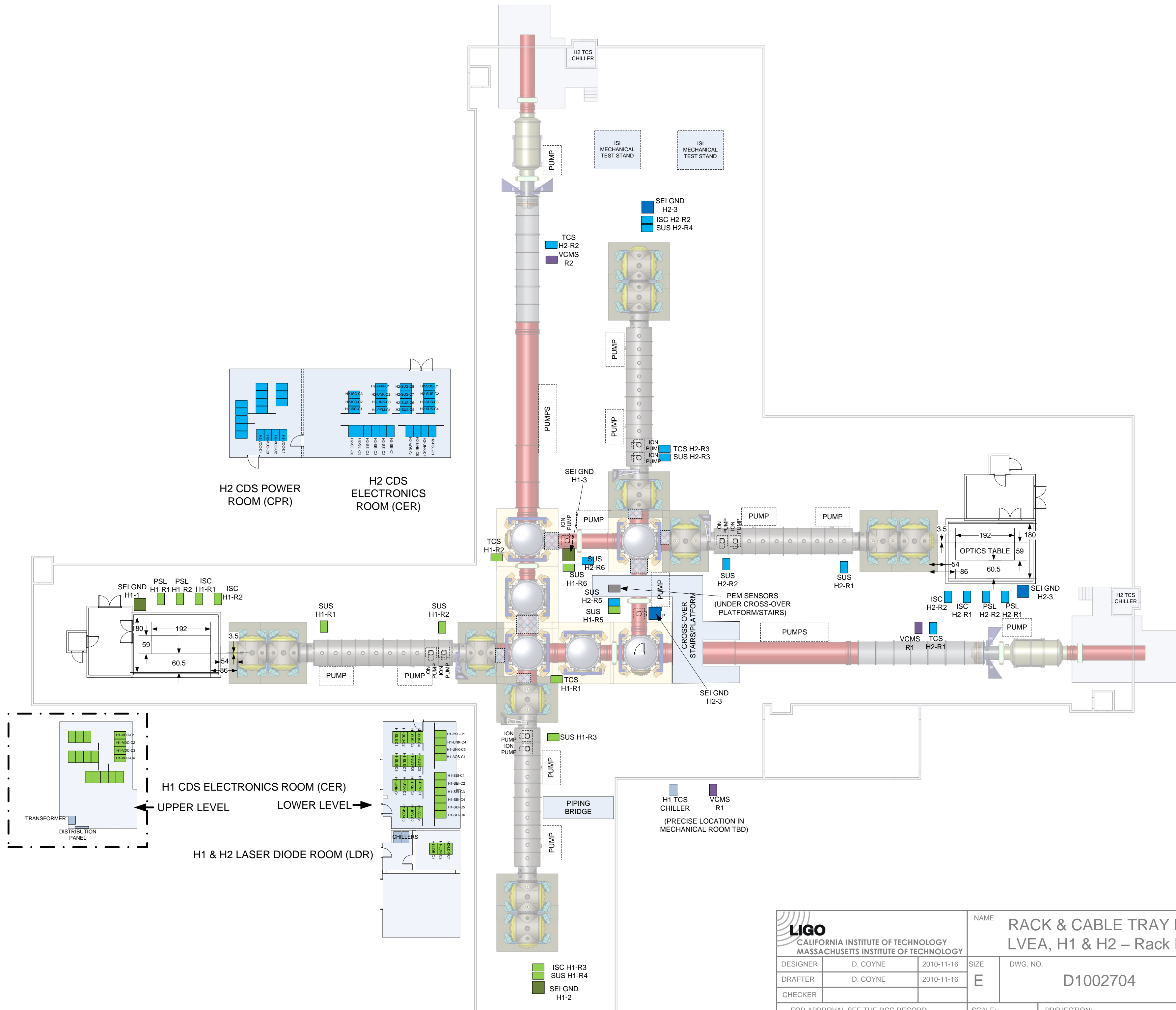
 CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY			NAME		RACK & CABLE TRAY LAYOUT, LVEA, H1 & H2 – Plan View			
			DESIGNER	D. COYNE	2010-11-16	SIZE	DWG. NO.	REV
DRAFTER			D. COYNE	2010-11-16	E		D1002704	V4
CHECKER								
FOR APPROVAL SEE THE DCC RECORD			SCALE:	PROJECTION:		SHEET 1 OF 5		



SECTION A-A

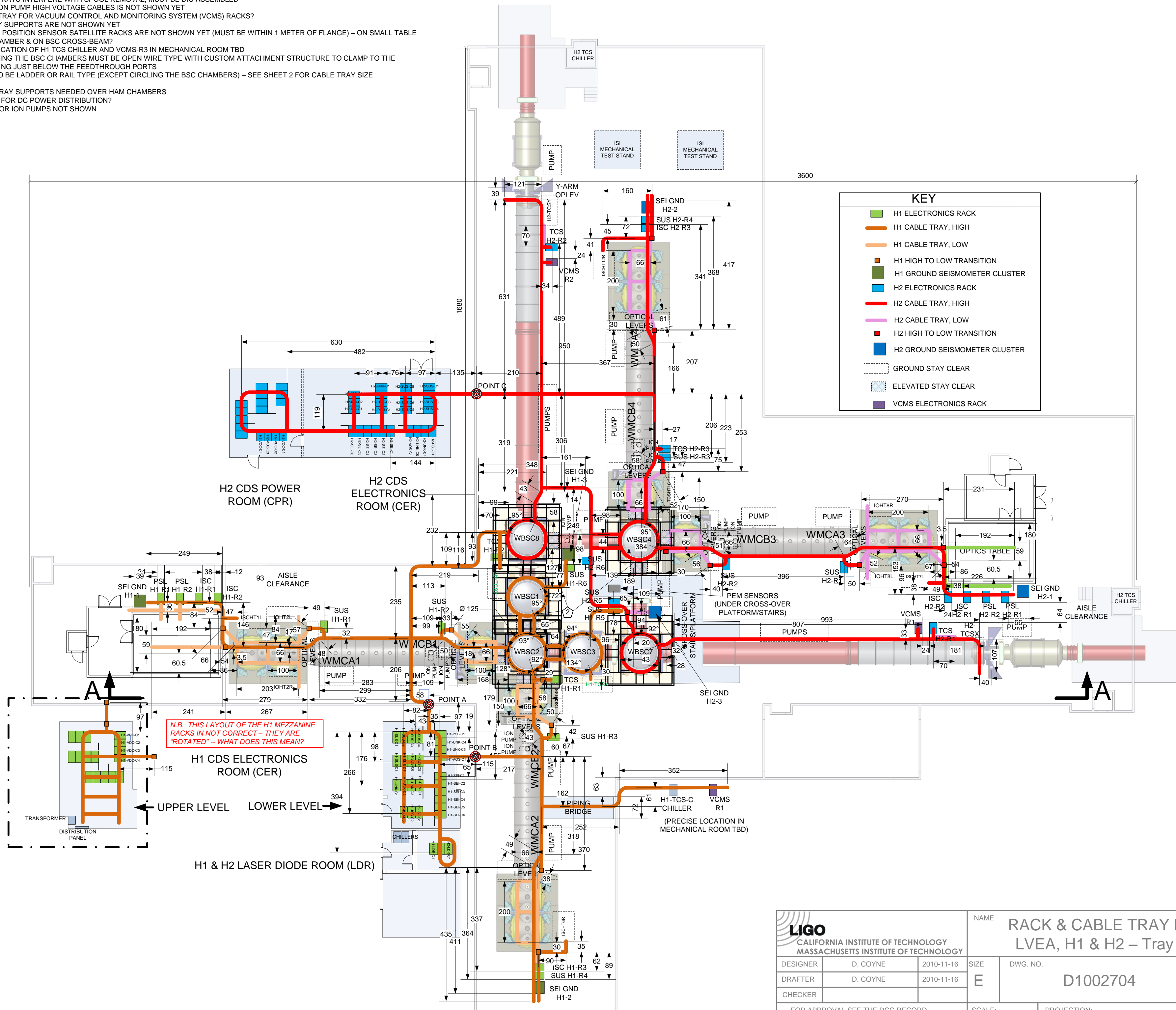
NOTE: CABLE TRAY IS ONLY SHOWN ALONG THE H1 A-ARM FOR CLARITY.

 LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY			NAME RACK & CABLE TRAY LAYOUT, LVEA, H1 & H2 -- Elevations		
DESIGNER	D. COYNE	2010-11-16	SIZE	DWG. NO.	REV
DRAFTER	D. COYNE	2010-11-16	E	D1002704	V4
CHECKER					
FOR APPROVAL SEE THE DCC RECORD			SCALE:	PROJECTION:	SHEET 2 OF 5

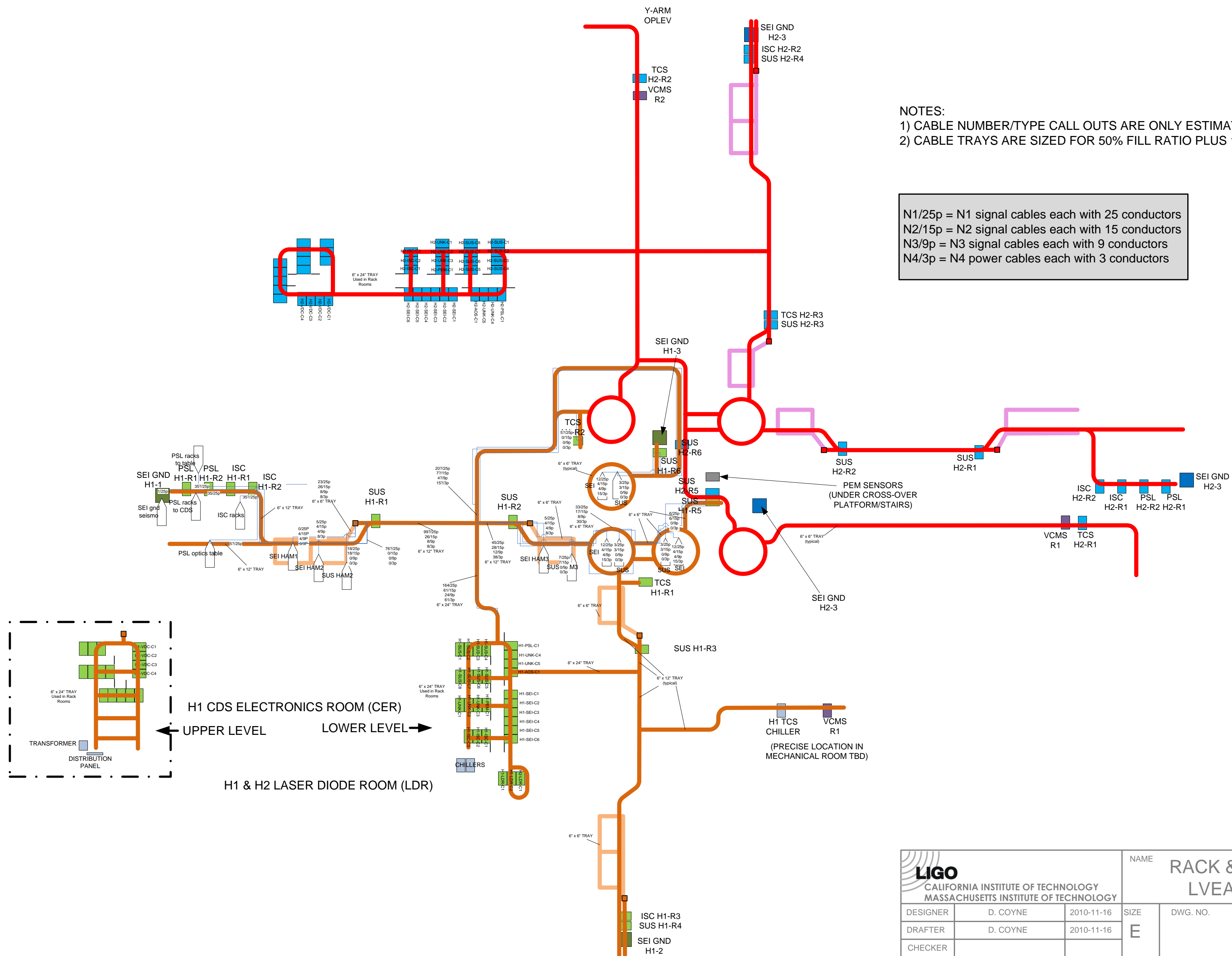


 LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY			NAME RACK & CABLE TRAY LAYOUT, LVEA, H1 & H2 – Rack Locations		
DESIGNER	D. COYNE	2010-11-16	SIZE	DWG. NO.	REV
DRAFTER	D. COYNE	2010-11-16	E	D1002704	V4
CHECKER					
FOR APPROVAL SEE THE DCC RECORD			SCALE:	PROJECTION:	SHEET 3 OF 5

- NOTES:
 1) ALL DIMENSIONS ARE IN INCHES
 2) SOME BSC TRAYS INTERFERE WITH SPOOL REMOVAL; MUST BE DIS-ASSEMBLED
 3) TRAY FOR ION PUMP HIGH VOLTAGE CABLES IS NOT SHOWN YET
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 10) CUSTOM TRAY SUPPORTS NEEDED OVER HAM CHAMBERS
 11) CONDUITS FOR DC POWER DISTRIBUTION?
 12) HV TRAY FOR ION PUMPS NOT SHOWN



			NAME: RACK & CABLE TRAY LAYOUT, LVEA, H1 & H2 – Tray Lengths		
CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY			DESIGNER: D. COYNE 2010-11-16	SIZE: E	DWG. NO.: D1002704
DRAFTER: D. COYNE 2010-11-16	CHECKER:	FOR APPROVAL SEE THE DCC RECORD	SCALE:	PROJECTION:	REV: V3
SHEET 4 OF 5					



N1/25p = N1 signal cables each with 25 conductors
 N2/15p = N2 signal cables each with 15 conductors
 N3/9p = N3 signal cables each with 9 conductors
 N4/3p = N4 power cables each with 3 conductors

 CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY			NAME RACK & CABLE TRAY LAYOUT, LVEA, H1 & H2 – Tray Sizes		
DESIGNER	D. COYNE	2010-11-16	SIZE	DWG. NO.	REV
DRAFTER	D. COYNE	2010-11-16	E	D1002704	V3
CHECKER					
FOR APPROVAL SEE THE DCC RECORD			SCALE:	PROJECTION:	SHEET 5 OF 5