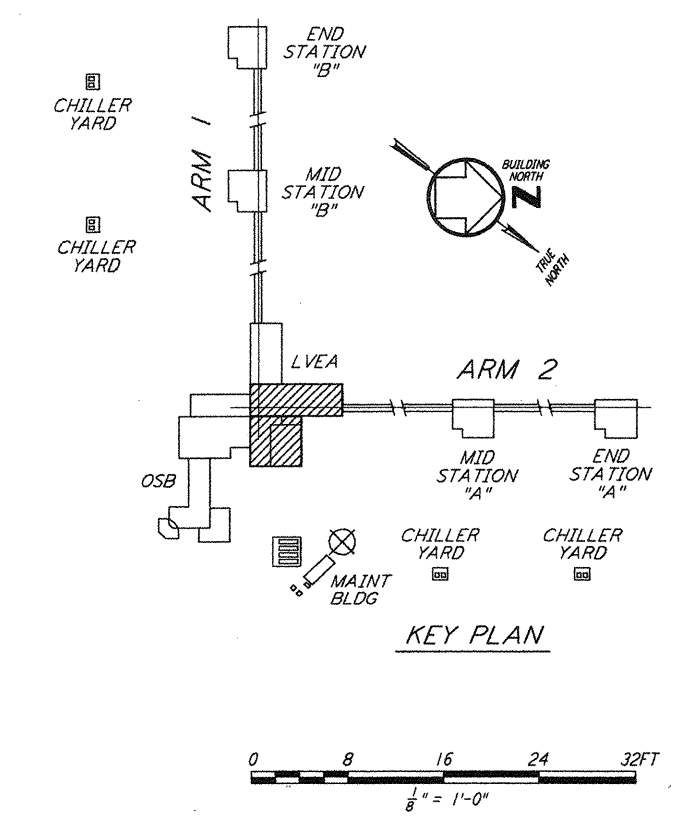


- NOTES:**
- FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES SEE SHEETS WA-H-001 AND WA-H-002.
 - ALL SUPPLY AIR DUCTS SHALL BE DOUBLE WALL WITH 1" RIGID INSULATION AND PERFORATED SHEET METAL LINER.
 - RETURN AIR DUCTS FROM LVEA SHALL BE DOUBLE WALL WITH 2" RIGID INSULATION AND PERFORATED SHEET METAL LINER.
 - RETURN AIR DUCTS FROM OSB SHALL BE SINGLE WALL WITHOUT INSULATION WITHIN OSB AREA AND DOUBLE WALL WITH 2" RIGID INSULATION AND PERFORATED SHEET METAL LINER INSIDE LVEA AND MECHANICAL ROOM.
 - RETURN AIR DUCTS FROM MECHANICAL ROOM SHALL BE SINGLE WALL WITHOUT INSULATION.
 - OUTSIDE AIR DUCTS AND INTAKE PLENUMS SHALL BE DOUBLE WALL WITH 2" INSULATION AND SHEET METAL JACKET.
 - THE INTERIOR ENVELOPE OF THE AIR HANDLING UNITS AND THE SUPPLY AIR PLENUM EXCEPT FLOOR SHALL BE COVERED BY 2" RIGID DUCT LINER WITH PERFORATED SHEET METAL LINER.
 - DRAWINGS SHOW THE GENERAL ARRANGEMENT OF THE AIR HANDLING UNITS LAYOUT, THE CONTRACTOR SHALL SUBMIT THE SHOP DRAWINGS INDICATING ALL CONSTRUCTION DETAILS.
 - THE TEMPERATURE SENSORS FOR EACH ZONE WILL BE USED TO AVERAGE THE ROOM TEMPERATURE OR TO SELECT ANY ONE TO CONTROL THE ROOM TEMPERATURE.
 - LOCATE ROOM TEMPERATURE SENSORS/TRANSMITTER INSIDE LVEA 18" ABOVE FINISHED FLOOR. LOCATE SENSORS AWAY FROM ANY HEAT SOURCE.
 - LOCATE RETURN AIR REGISTERS ON THE WALLS BETWEEN STUDS.
 - FOR PIPING FLOOR PLAN SEE SHEET WA-H-513.
 - FOR LOCATION OF CONTROL PANELS SEE SHEET WA-H-513.

ROOM TEMPERATURE SETTING		
ROOM NAME	TEMPERATURE SET POINT (°F)	
	MIN	MAX
LVEA AREA-1	72	72
LVEA AREA-2	72	72
LVEA AREA-4	72	72
LVEA AREA-5	72	72
MECHANICAL ROOM	65	80

- LEGEND:**
- TT XX ROOM TEMPERATURE SENSOR/TRANSMITTER
 - TT XX TEMPERATURE TRANSMITTER ID LETTER
 - LAZER VACUUM EQUIPMENT AREA NUMBER
 - HF-1, HEPA FILTER OUTLET, 570 CFM



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ISSUED FOR CONSTRUCTION
 DRAWN CLP 6-24-98
 CHECKED ME 7/31/98
 ENGINEER AA 7/31/98
 PROJ MDW 7/6/98

AS-BUILT DRAWINGS

PARSONS
 100 WEST WALNUT STREET
 PASADENA, CALIFORNIA

LIGO
 CALIFORNIA INSTITUTE OF TECHNOLOGY
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY

LIGO-D960381-02-O
 LASER INTERFEROMETER
 GRAVITATIONAL-WAVE OBSERVATORY
 SITE NO. 1 - HANFORD, WASHINGTON

SCALE: CONTRACT NUMBER: PROJECT NUMBER: PPI50969 8094
 SHEET NUMBER: **WA-H-511**

NO.	DATE	BY	CHKD	ENGR	PROJ	DESCRIPTION
2	5-15-98	CP	AA	AA	MDW	ISSUED FOR AS-BUILT
1	3-20-97	WVW	AA	AA	TOM	REVISED NOTES 3 AND 4