

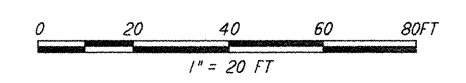
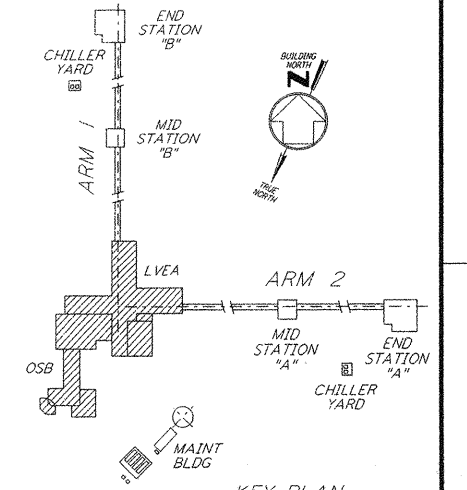
GENERAL NOTES (LIGHTNING PROTECTION)

- INSTALLATION SHALL COMPLY IN ALL RESPECTS WITH LIGHTNING PROTECTION INSTITUTE (LPI) CODE 175 AS REQUIRED PER NFPA 780.
- FOR LIGHTNING PROTECTION INSTALLATION DETAILS, SEE DWG LA-E-408. BLDG. METAL WITH CORRUGATED SIDING, ROOF FINISH MODIFIED BETWEEN. ROOF (CENTERED RIDGE) LESS THAN 75'H, LOWER ROOF PROTECTION FOR 50' OR LESS (NFPA 780-10)
- LOCATE AIR TERMINALS AS SHOWN.
- SUPPORT ALL EXPOSED ROOF DOWN CONDUCTOR AND BONDING CABLE AT 4'-0" ON CENTER MAXIMUM. SEE DETAIL 3 ON LA-E-408.
- ALL MATERIALS SHALL BE ULL, APPROVED WITH "A" LABELS ON CONDUCTORS AT 10'-0" INTERVALS AND "B" LABELS ON ALL AIR TERMINALS.
- UNLESS OTHERWISE INDICATED ALL MATERIALS SHOWN HEREIN SHALL BE BY THOMPSON LIGHTNING PROTECTION INC. MFR. OR EQUAL.
- LIGHTNING PROTECTION SHALL BE PER SPECIFICATION SECTION 16670 DRAWING PRESENTATION IS FOR UNDERSTANDING ONLY.

NOTES:

- CONNECT GROUNDING CONDUCTOR TO REBAR (BY OTHERS) AT BOTTOM OF FOUNDATION. REBAR SHALL BE AT LEAST 20 FEET LONG.
- PEDESTALS AT RAISED FLOOR ROOMS SHALL BE GROUNDED; MINIMUM 10X OF ALL THROUGHOUT ENTIRE RAISED FLOOR.
- ALL METAL PARTS SUPPORTING AIR HANDLING UNITS SHALL BE GROUNDED WITH 1#1/0 (GREEN) IN PVC CONDUIT, CONNECT TO GROUNDING PLATES. METAL-TO-METAL PARTS SHALL BE BONDED WITH 1#1/0 (GREEN) STRANDED SOFT DRAWN CU. WIRE.
- TRANSFORMER GROUNDING IS LOW RESISTANCE TYPE CONNECT GROUND CONDUCTOR TO NEUTRAL AND CASE.
- GROUND BOND CABLE BETWEEN TRANSFORMER NEUTRAL TERMINAL AND GROUND COUNTERPOISE SHALL BE DIRECT AND AS SHORT AS POSSIBLE.
- CONNECT ISOLATED GROUND BAR TO CDSAC TRANSFORMER NEUTRAL WITH INSULATED #1/0 COPPER CABLE.
- FOR SYMBOLS, ABBREVIATIONS AND ACRONYMS SEE DWG. LA-E-001.
- FOR PLAN SYMBOLS SEE DWG. LA-E-002.
- FOR GROUNDING STANDARD INSTALLATION DETAILS SEE DWGS. LA-E-405, LA-E-406 AND LA-E-407.
- PANELBOARDS SHOWN FOR REFERENCE ONLY.

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NO.	DATE	BY	CHKD	ENGR	PROJ	DESCRIPTION
2	5-21-99	AO	AK	AC	MDW	ISSUED AS REVISED AS-BUILT
1	8-7-98	JE	AK	AC	MDW	ISSUED FOR AS-BUILT

ISSUED FOR CONSTRUCTION		
DRAWN	M. M.	11-15-96
CHECKED	JCL	7-24-96
ENGINEER	KCR	10-25-96
PROJ	T. D. M.	11-15-96

AS-BUILT DRAWINGS

PARSONS
100 WEST WALNUT STREET
PASADENA, CALIFORNIA

LIGO
CALIFORNIA INSTITUTE OF TECHNOLOGY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

LIGO-D961005-02-0

LASER INTERFEROMETER
GRAVITATIONAL-WAVE OBSERVATORY
SITE NO. 2 - LIVINGSTON, LOUISIANA

TITLE	SCALE	CONTRACT NUMBER	PROJECT NUMBER
ELECTRICAL CORNER STATION GROUNDING AND LIGHTNING PROTECTION PLAN	AS NOTED	PP150969	8094
SHEET NUMBER	PROJECT NUMBER		REVISIONS
LA-E-103			2