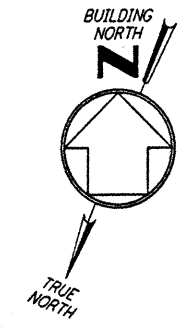


**NOTES:**

1. FOR GENERAL NOTES SEE DWG. LA-E-103.
2. CONNECT GROUNDING CONDUCTOR TO REBAR AT BOTTOM OF FOUNDATION. REBAR SHALL BE AT LEAST 20 FEET LONG AND 1/2" DIAMETER.
3. SEE CIVIL DRAWING LA-C-021 FOR ACTUAL LOCATION OF TRANSFORMER.
4. SEE SPECIFICATION SECTION 16670 FOR LIGHTNING PROTECTION MATERIAL.
5. GROUND CONNECTION TO STRUCTURAL STEEL SHALL BE EXOTHERMIC WELD TYPE, AND APPROPRIATE FOR THE CABLE AND STRUCTURAL STEEL.



EXISTING  
 1" & 3" CONDUITS WITH A PULL ROPE INSTALLED  
 INTIRE LENGTH OF EACH RACEWAY AND 5'-0"  
 OF ROPE COILED INSIDE AT EACH END

6" PVC COND. MECHANICAL PROTECTION

TRANSFORMER VAULT  
 BY OTHERS

FUTURE XFMR  
 L-MA-CC-TR-01

6" PVC COND. MECHANICAL PROTECTION

SIMILAR (5)  
 LA-E-407  
 STUB UP CONDUIT 1'-0" ABOVE  
 FINISHED FLOOR. COIL & TAPE  
 5'-0" OF CABLE ABOVE CONDUIT,  
 SEAL CONDUIT WITH APPROVED  
 SEALING BUSHING

(2) LA-E-406  
 (TYP) (4) LA-E-408

SIMILAR (1)  
 LA-E-407  
 STUB UP CONDUIT 1'-0"  
 ABOVE FINISHED FLOOR  
 AND CAP

EXISTING  
 1 1/2" BC GROUND

SIMILAR (4)  
 LA-E-408  
 (TYP) (5) LA-E-407

VACUUM  
 EQUIPMENT AREA  
 201

BEAM TUBE

BEAM TUBE

(5) (TYP FOR 4)  
 LA-E-405

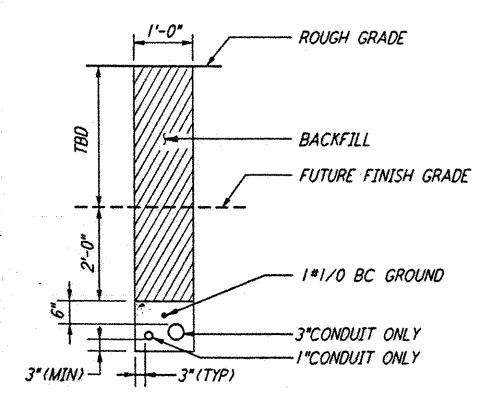
(5) LA-E-407  
 (4) LA-E-406  
 (TYP FOR 4)

LIGHTNING PROTECTION CABLE  
 CONTINUED AT RIGHT THIS DWG  
 (TYP FOR 4)

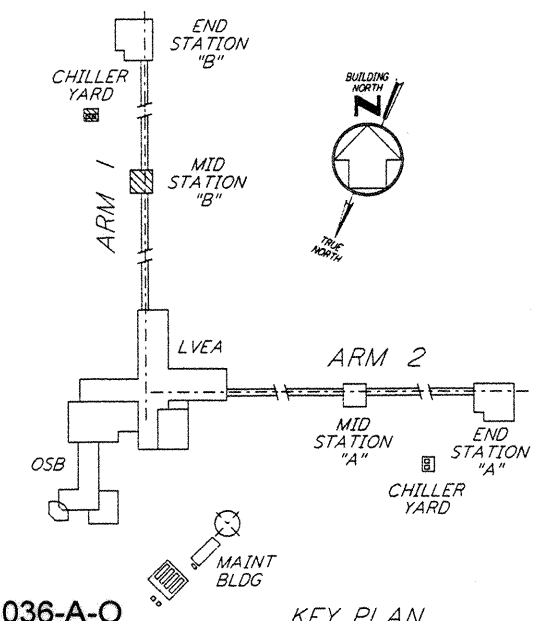
LIGHTNING PROTECTION CABLE  
 ON ROOF OF STATION (TYP)

LIGHTNING PROTECTION CABLE  
 CONTINUED AT LEFT THIS DWG  
 (TYP FOR 4)

**LIGHTNING PROTECTION PLAN**

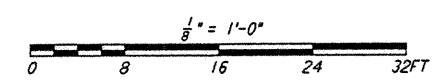


**SECTION**  
 NTS EXISTING DUCTBANK (A) REF LA-E-207



**KEY PLAN**

LIGO-D961036-A-O



**GROUNDING & UNDERGROUND PLAN**

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NO.	DATE	BY	CHKD	ENGR	PROJ	DESCRIPTION
A	6-14-96	JCL	JCL	JCL	JCL	FINAL DESIGN REVIEW

DRAWN	M. M.
CHECKED	
ENGINEER	
PROJ	

**PARSONS**  
 100 WEST WALNUT STREET  
 PASADENA, CALIFORNIA

**LIGO**  
 CALIFORNIA INSTITUTE OF TECHNOLOGY  
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY

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

TITLE: **ELECTRICAL MID STATION B GROUNDING & UNDERGROUND PLAN**

SCALE: AS NOTED CONTRACT NUMBER: PP150969 PROJECT NUMBER: 8094

SHEET NUMBER: **LA-E-217**