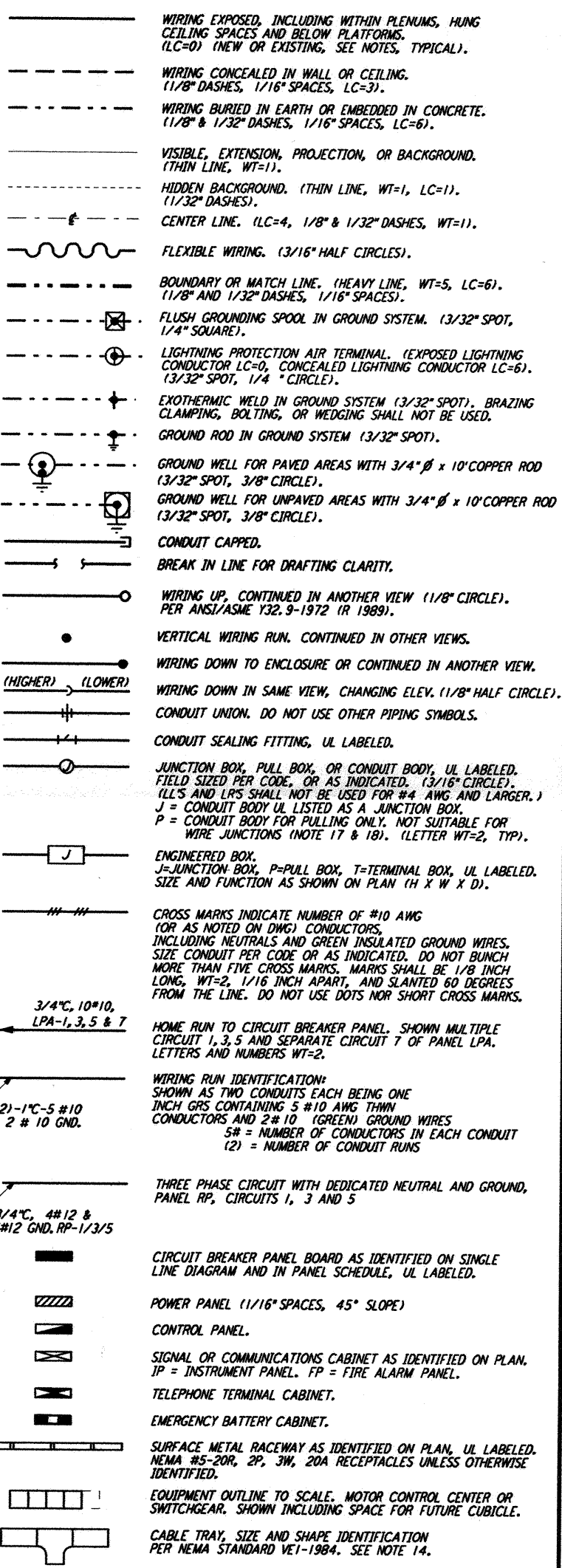


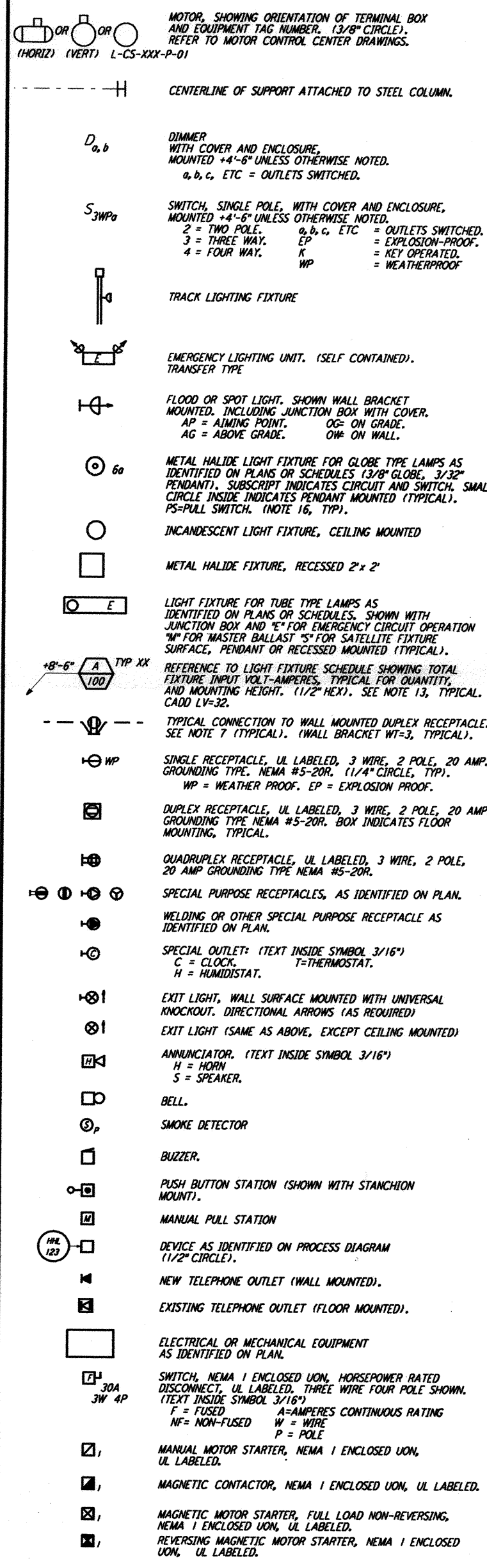
PLAN SYMBOLS



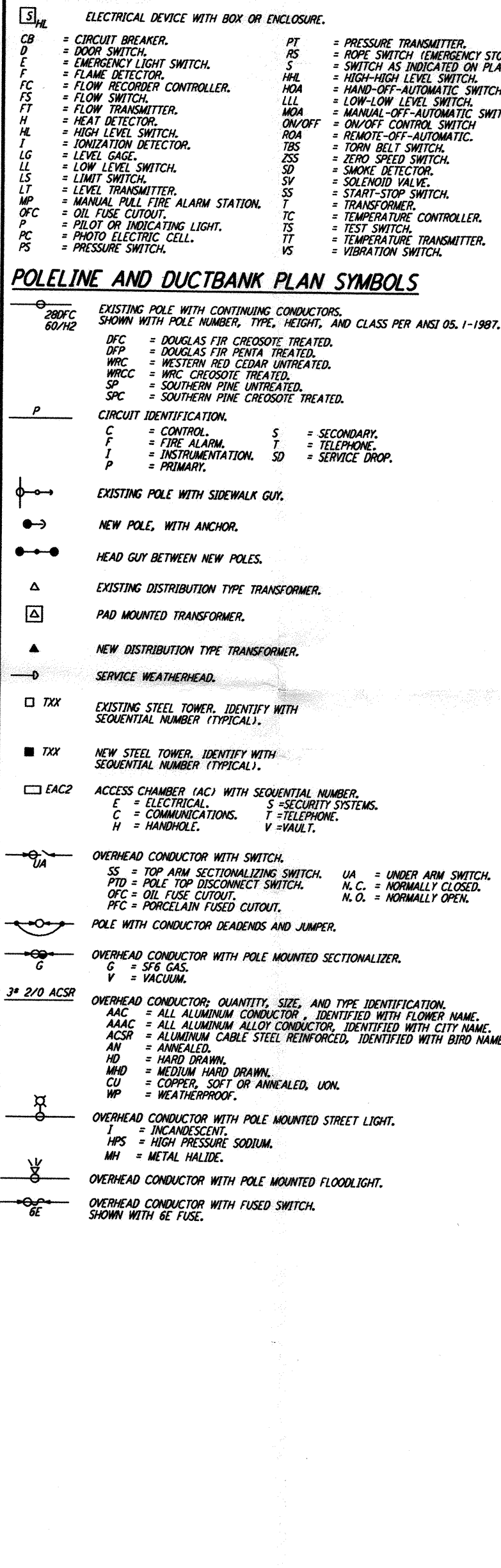
REFERENCE DRAWINGS

- LA-E-004 ONE & THREE LINE DIAGRAM SYMBOLS
- LA-E-003 SCHEMATIC & WIRING DIAGRAM SYMBOLS
- LA-E-001 ABBREVIATIONS & ACRONYMS

PLAN SYMBOLS



PLAN SYMBOLS



POLELINE AND DUCTBANK PLAN SYMBOLS

NOTES:

- THIS IS A STANDARD DRAWING. ITEMS NOT SHOWN ON PLANS, SECTIONS, OR DETAILS ARE FOR FUTURE USE. DO NOT EDIT THIS SHEET FOR SPECIFIC APPLICATIONS. CADD AND MANUAL DRAFTING INSTRUCTIONS SHALL REMAIN FOR FIELD CHANGES AND AS-BUILTS. SPECIFICATION DATA SHALL REMAIN FOR QUALITY CONTROL.
- SYMBOLS ON THIS DRAWING HAVE BEEN ADAPTED FROM ANSI/ASME Y14.2M-1979 (R1987) AND ANSI/ASME Y32.9-1972 (R1989) WITH RESOLUTION OF CONFLICTS AND SHALL BE USED AS BUILDING BLOCKS TO ASSEMBLE ALL REQUIRED FORMS OF GRAPHIC REPRESENTATION ON PLANS, SECTIONS, AND DETAILS.
- DRAFTING SHALL INCLUDE LINE THICKNESS PER ANSI/ASME Y14.2M-1979 (R1987) AS FOLLOWS:
THIN --- CENTER, DIMENSION, BREAK, EXISTING, AND BACKGROUND LINES (0.016, 1/64, INCH, WT=1).
MEDIUM --- NEW WORK (0.032, 1/32, INCH WT=3).
THICK --- MATCH LINE, POWER BUS, OR BATTERY LIMIT (0.048, 3/64, INCH WT=5).
DO NOT USE WT=0, 2, OR 4 FOR LINES. CADD WEIGHT SHALL BE AS INDICATED WITH WT=TEXT, EQUIPMENT CALL OUTS, AND LEADER LINES ON DIMENSIONED (PLAN) DRAWINGS. CADD LV=32, SYMBOLS, CONDUIT, AND BUSWAY ON DIMENSIONED (PLAN) DRAWINGS, CADD LV=31.
- LETTERING SHALL BE SLANTED WITHIN DRAWING, 1/8 INCH FOR TEXT, 1/4 INCH FOR HEADINGS AND TITLES. CADD FONT 61. WIDTH RATIO SHALL BE 80 PERCENT. LINE SPACING SHALL BE 1/2 TEXT HEIGHT. 1/8 INCH LETTERS SHALL BE WT=2. 1/4 INCH LETTERS SHALL BE WT=4. LOWER CASE LETTERS SHALL NOT BE USED. FOUR LINE TITLE BLOCKS SHALL BE 3/16 INCH WT=2.
- ALL WORK SHALL BE SUITABLE FOR LEGIBLE REPRODUCTION FROM HALF SIZE SECOND GENERATION REPRODUCTIONS.
- RATINGS SHALL BE SHOWN WHERE ESSENTIAL FOR OVERALL UNDERSTANDING OF THE SYSTEM.
- CONVENIENCE OUTLETS LOCATED IN CLASSIFIED INDOOR AREAS SHALL BE SURFACE MOUNTED.
- MOUNTING HEIGHT OF EQUIPMENT, UNLESS OTHERWISE NOTED, SHALL BE ABOVE FINISHED FLOOR AS FOLLOWS:
A. LIGHTS OVER DOORS, 1'-0" ABOVE DOOR OPENING TO BOTTOM
B. LOCAL SWITCHES, 4'-6" TO CENTERLINE.
C. OFFICE AND CONTROL ROOM RECEPTACLES 1'-6" TO CENTERLINE.
D. OTHER RECEPTACLES, 3'-6" TO CENTERLINE.
E. LIGHTING PANELS, 6'-6" MAXIMUM TO TOP CIRCUIT BREAKER.
- EMERGENCY LIGHTING SYSTEM BRANCH CIRCUIT RACEWAY AS WELL AS FIRE ALARM AND DETECTION RACEWAY SHALL BE INDEPENDENT OF OTHER RACEWAY SYSTEMS.
- MINIMUM CONDUCTOR SIZE FOR ALL LIGHTING AND 120V CONVENIENCE RECEPTACLE CIRCUITS SHALL BE AWG #12, 600V, TYPE THW INSULATION STRANDED COPPER WIRE, UNLESS OTHERWISE NOTED. CONNECTIONS SHALL BE MADE WITH CRIMP LUGS AND CRIMP CONNECTORS. WIRE NUTS SHALL NOT BE USED.
- FLEXIBLE CONDUIT SHALL BE USED FOR RECESSED FIXTURES FROM THE JUNCTION BOX TO THE FIXTURE NOT EXCEEDING A MAXIMUM LENGTH OF 6'-0". MINIMUM LENGTH FOR FLEXIBILITY SHALL BE 3'-0".
- MOUNTING HEIGHT OF LIGHTING FIXTURES, AS INDICATED ON THE DRAWINGS, IS FROM FINISHED FLOOR, PLATFORM, OR DECK TO BOTTOM OF FIXTURE.
- MINIMUM DISTANCE BETWEEN THE TOP OF CABLE TRAY AND BOTTOM OF THE STRUCTURAL STEEL DIRECTLY ABOVE IT SHALL BE 6". WHERE TWO TRAYS CROSS EACH OTHER, THE TOP OF THE LOWER TRAY TO THE BOTTOM OF THE TRAY ABOVE SHALL BE 6" MINIMUM.
- STACKED FRACTIONS SHALL NOT BE USED.
- SYMBOLS ARE NOT SCALED PICTURES. SYMBOL SIZE SHALL NOT CHANGE WHEN DRAWING SCALE CHANGES. IF THE INDICATED SYMBOL SIZES MAKE THE DRAWING TOO CONGESTED, THE DRAWING SHALL BE REDRAWN TO A LARGER SCALE. THE GLOBE AND TUBE FIXTURE SYMBOLS ARE THE ONLY EXCEPTION WHEN DRAWN TO SCALE TO MATCH THE ARCHITECTURAL PLAN.
- CONDUIT BODIES AND FITTINGS SHALL BE SHOWN ON DRAWINGS ONLY WHEN THE BUDGET AND CRITERIA REQUIRES, OR WHEN REQUIRED FOR CLARITY OR ENGINEERING FUNCTION.
- THE CONSTRUCTOR SHALL PROVIDE CONDUIT BODIES, FITTINGS, AND SUPPORTS NOT SHOWN ON THE DRAWINGS BUT REQUIRED BY JOB CONFIGURATION OR THE NEC.

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| DRAWN | J. G. |
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LIGO-D960995-A-O
LASER INTERFEROMETER
GRAVITATIONAL-WAVE OBSERVATORY
SITE NO. 2 - LIVINGSTON, LOUISIANA
ELECTRICAL STANDARD PLAN SYMBOLS
NONE PPI50969 8094
LA-E-002

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