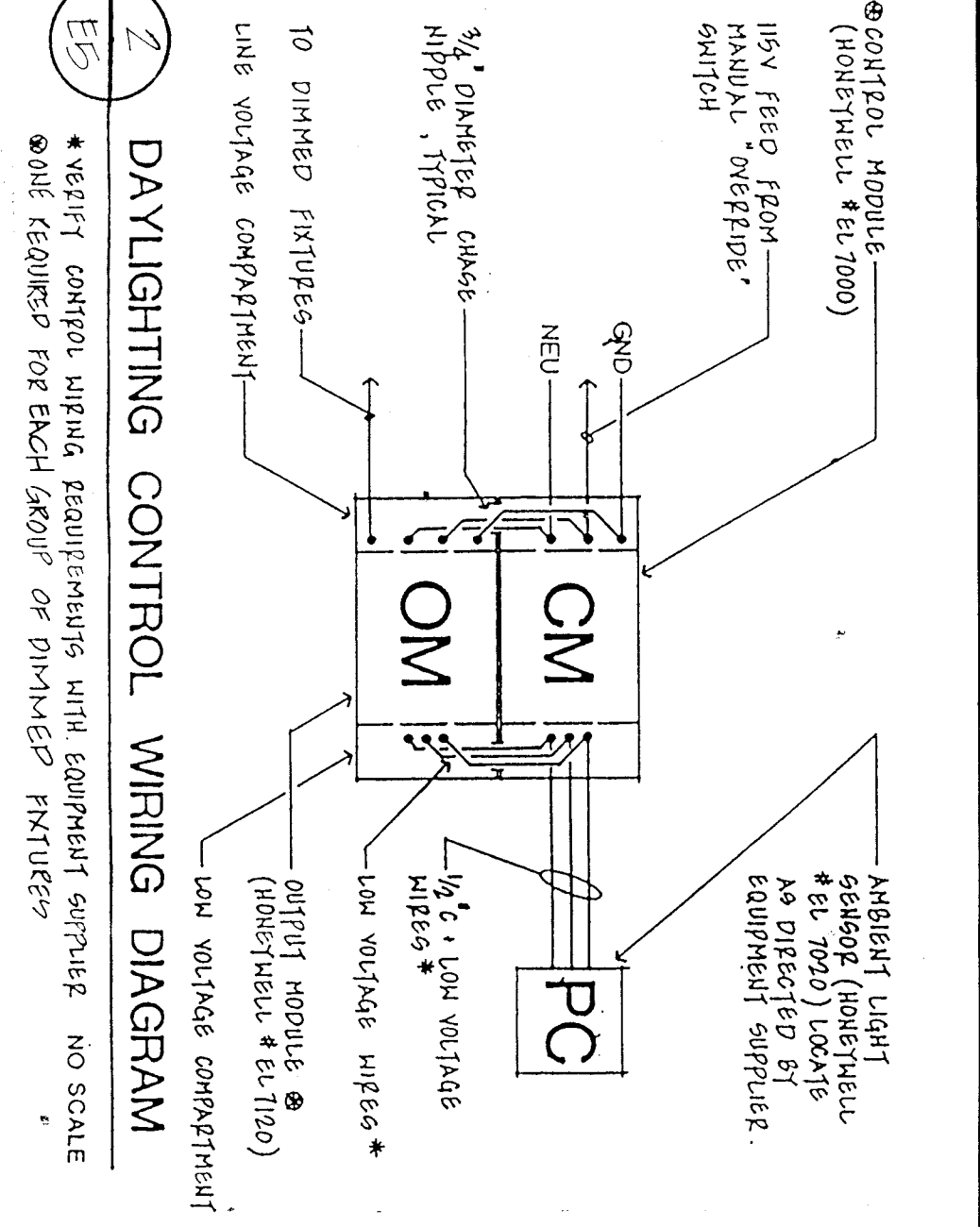
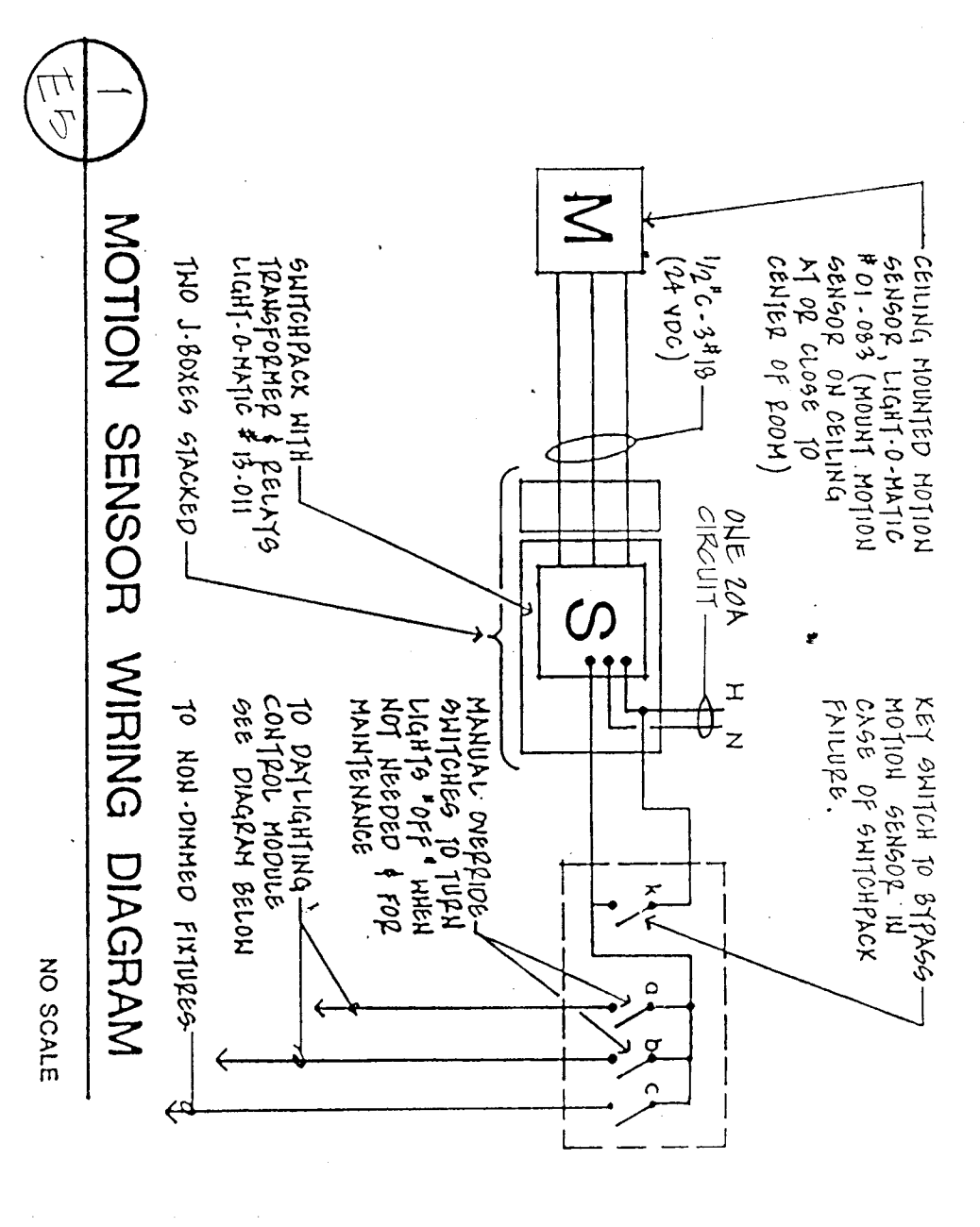


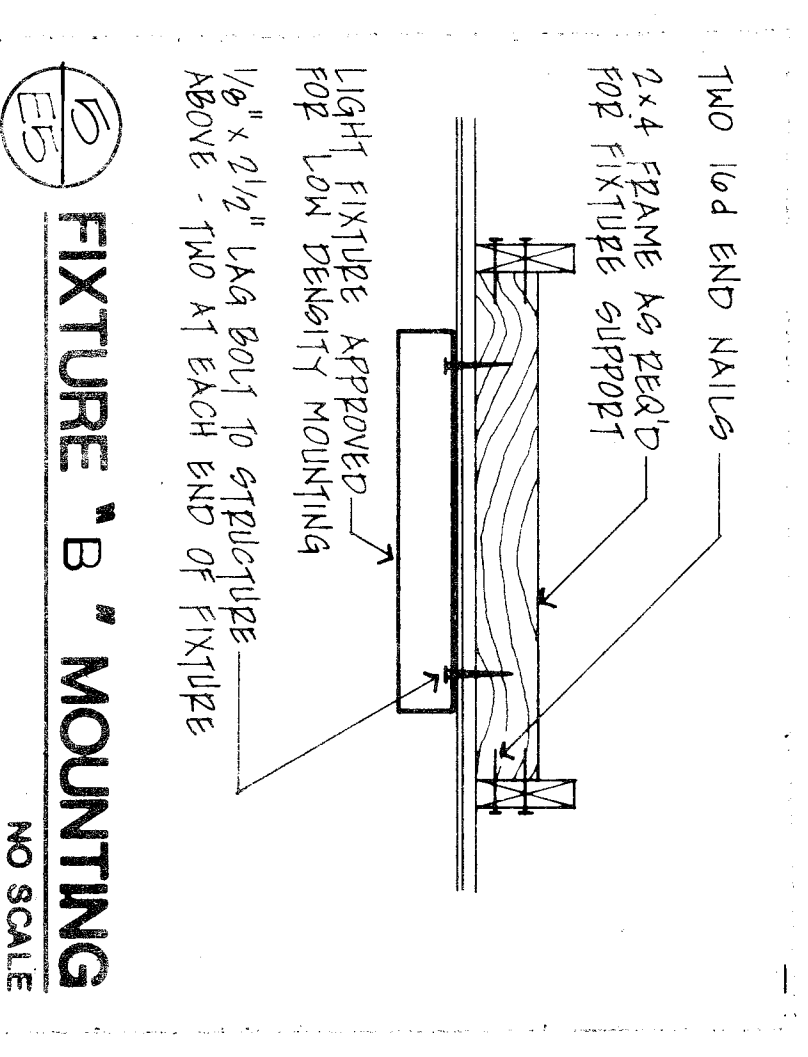
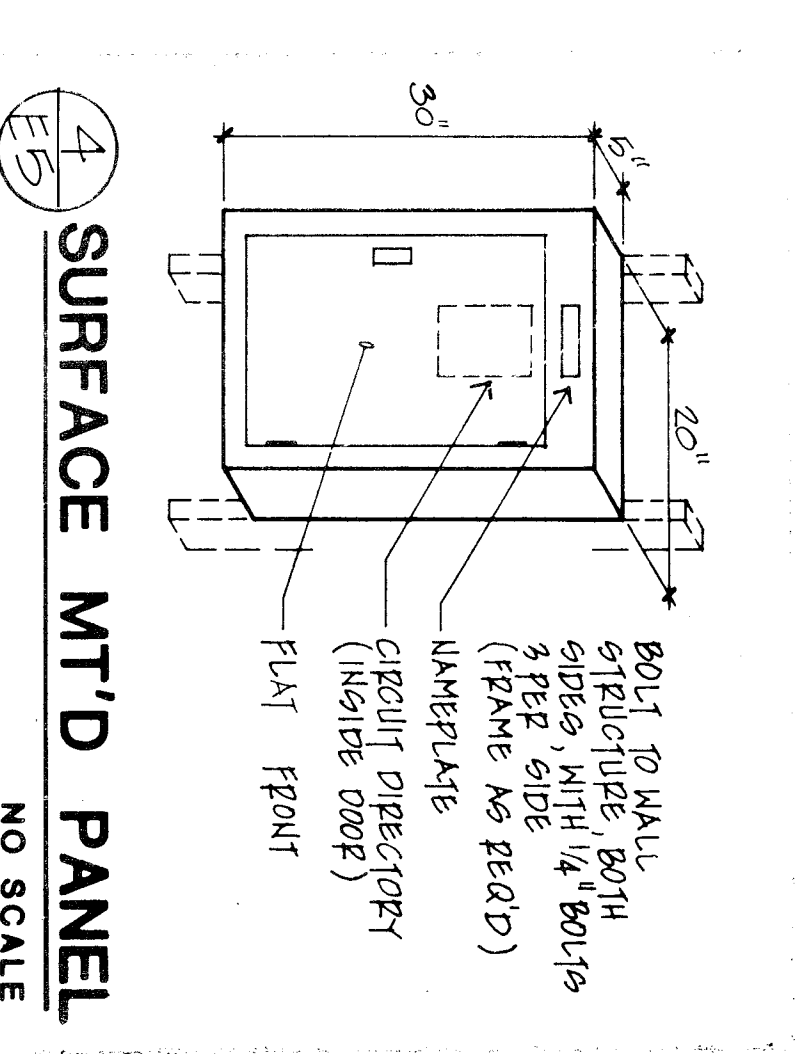
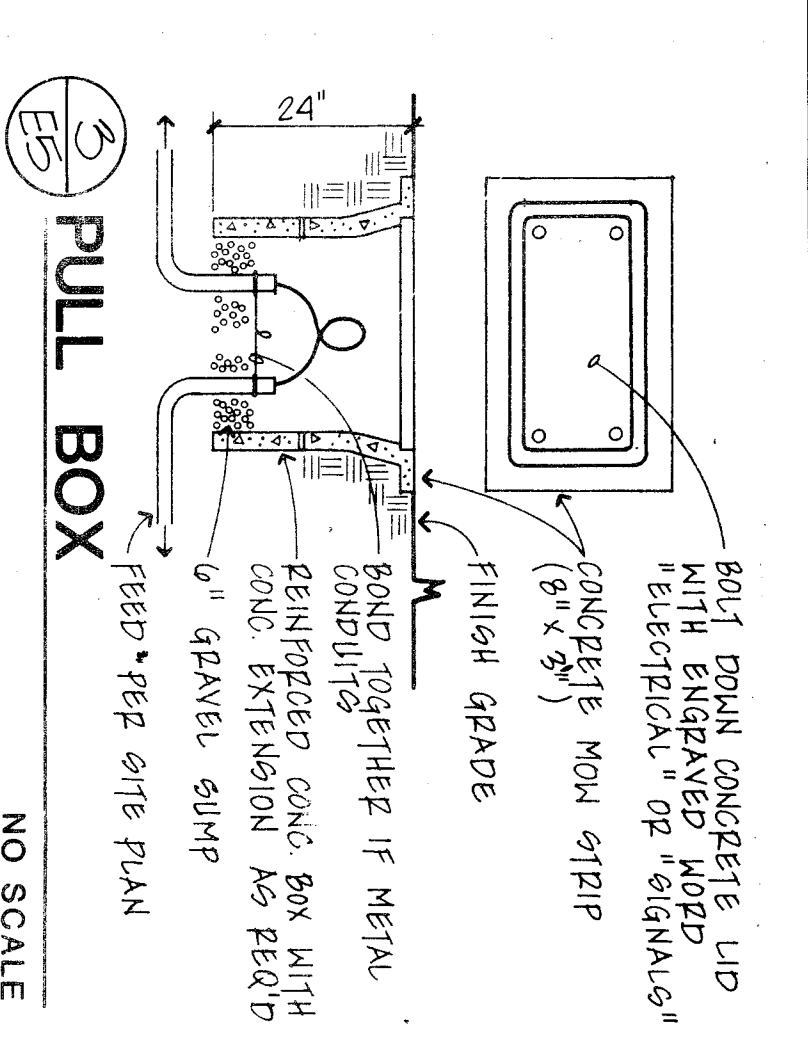
**PANEL 1C**

120/240	VOLTS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
120	240	120	240	120	240	120	240	120	240	120	240	120	240	120	240	120	240	120	240	120	240
120	240	120	240	120	240	120	240	120	240	120	240	120	240	120	240	120	240	120	240	120	240



**FIGURE SCHEDULE**

TYPE	WATTS	LAMPS	VOLTS	MANUFACTURER	CATALOG NO.	FINISH	NOTES
A	51	120	120	FAIRFAIR	120	120	EXIT LIGHTS
B	72	120	120	METALUX	120	120	EXIT LIGHTS
C	72	120	120	METALUX	120	120	EXIT LIGHTS
XL	N/A	N/A	N/A				EXIT LIGHTS
XR	15	120	120	DUAL-LITE	120	120	EXIT LIGHTS
EM	15	120	120	DUAL-LITE	120	120	EXIT LIGHTS



**PANEL REPLACEMENT SCHEDULE:**

REPLACE EXISTING SUB-PANELS WITH NEW "SQUARE D" OR "S.E." PANELS. ALL PANELS TO BE FLUSH MOUNTED WITH ROLT-ON BREAKER. U.O.N. CUT AND PATCH EXISTING WALL AREA FOR INSTALLATION OF NEW PANEL. FEEDS OF PANELS TO BE RE-RUN THROUGH EXISTING CONDUIT OR NEW CONDUIT. FEEDS TO BE CONNECTED TO SAME SIZE CIRCUIT BREAKERS AS PREVIOUSLY. FEEDS TO BE CONNECTED IN EXISTING PANEL. SEE REVISED ONE LINE DIAGRAM FOR MAIN FEEDER SIZES. ALL NEW PANELS TO HAVE MAIN BREAKER U.O.N. PROVIDE NEW PANELS WITH IDENTIFICATION TAGS. PROVIDE IDENTIFICATION TAGS FOR ALL PANELS. PROVIDE IDENTIFICATION TAGS FOR ALL PANELS.

**PANEL "A":** 120/240V 3W 4W 100 AMP. PROVIDE BREAKERS: 8 - 15/1, 2 - 20/1, 2 - 15/2, 1 - 20/2, 1 - 40/2, 1 - 60/2 MAIN.

**PANEL "B":** TO REMAIN AS IS. PROVIDE BREAKERS: 18 - 20/1, 1 - 20/2 AND 100/3 MAIN. PROVIDE BREAKERS: 24 - 15/1, 2 - 20/2 AND 100/3 MAIN. PROVIDE BREAKERS: 24 - 15/1, 2 - 20/2 AND 100/3 MAIN. PROVIDE BREAKERS: 24 - 15/1, 2 - 20/2 AND 100/3 MAIN.

**PANEL "C":** TO REMAIN AS IS. PROVIDE BREAKERS: 24 - 15/1, 2 - 20/2 AND 100/3 MAIN. PROVIDE BREAKERS: 24 - 15/1, 2 - 20/2 AND 100/3 MAIN. PROVIDE BREAKERS: 24 - 15/1, 2 - 20/2 AND 100/3 MAIN.

**PANEL "D":** TO REMAIN AS IS. PROVIDE BREAKERS: 24 - 15/1, 2 - 20/2 AND 100/3 MAIN. PROVIDE BREAKERS: 24 - 15/1, 2 - 20/2 AND 100/3 MAIN. PROVIDE BREAKERS: 24 - 15/1, 2 - 20/2 AND 100/3 MAIN.

**PANEL "E":** TO REMAIN AS IS. PROVIDE BREAKERS: 24 - 15/1, 2 - 20/2 AND 100/3 MAIN. PROVIDE BREAKERS: 24 - 15/1, 2 - 20/2 AND 100/3 MAIN. PROVIDE BREAKERS: 24 - 15/1, 2 - 20/2 AND 100/3 MAIN.

**PANEL "F":** TO REMAIN AS IS. PROVIDE BREAKERS: 24 - 15/1, 2 - 20/2 AND 100/3 MAIN. PROVIDE BREAKERS: 24 - 15/1, 2 - 20/2 AND 100/3 MAIN. PROVIDE BREAKERS: 24 - 15/1, 2 - 20/2 AND 100/3 MAIN.

**PANEL "G":** TO REMAIN AS IS. PROVIDE BREAKERS: 24 - 15/1, 2 - 20/2 AND 100/3 MAIN. PROVIDE BREAKERS: 24 - 15/1, 2 - 20/2 AND 100/3 MAIN. PROVIDE BREAKERS: 24 - 15/1, 2 - 20/2 AND 100/3 MAIN.

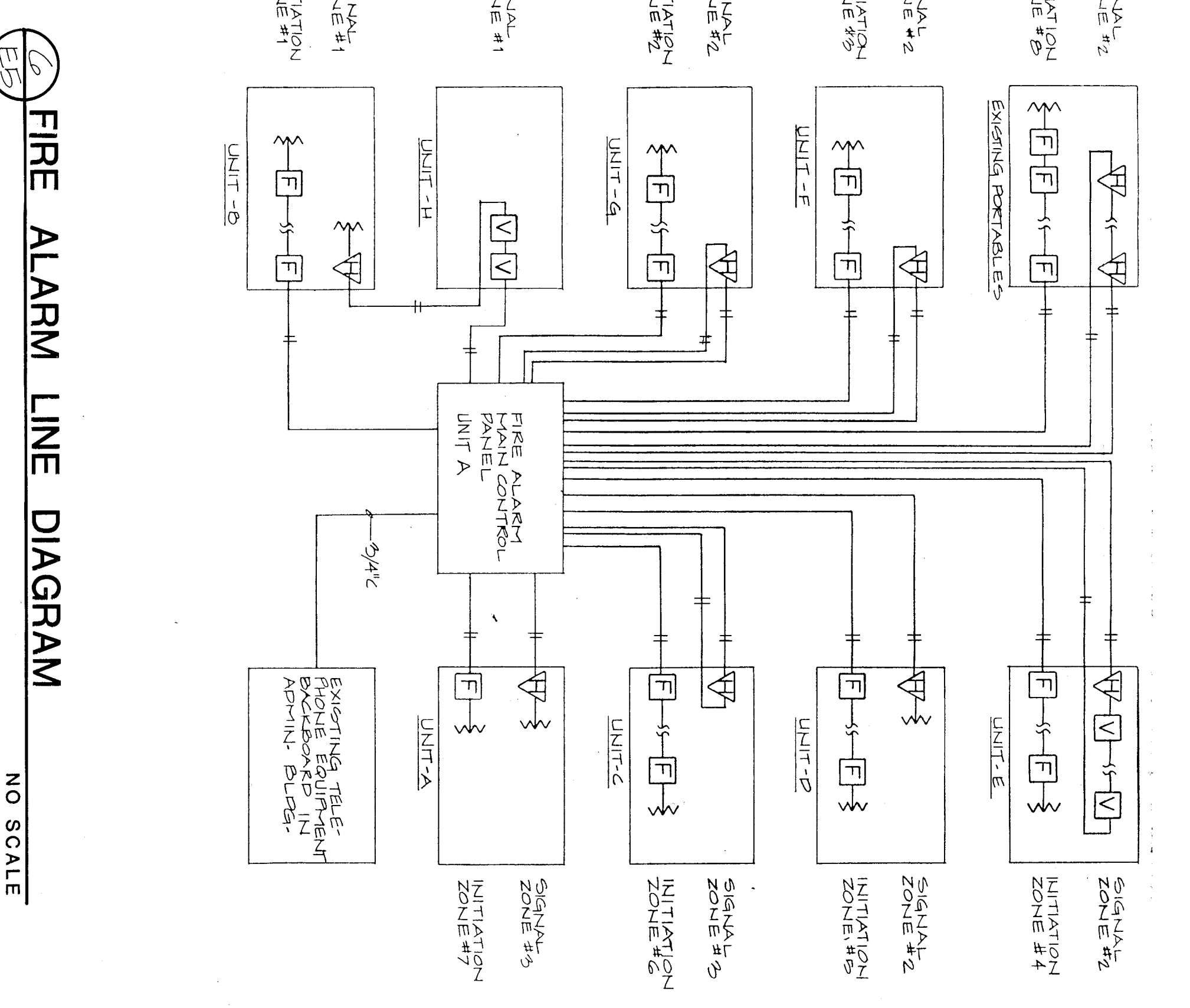
**PANEL "H":** TO REMAIN AS IS. PROVIDE BREAKERS: 24 - 15/1, 2 - 20/2 AND 100/3 MAIN. PROVIDE BREAKERS: 24 - 15/1, 2 - 20/2 AND 100/3 MAIN. PROVIDE BREAKERS: 24 - 15/1, 2 - 20/2 AND 100/3 MAIN.

**SCHOOLS SEISMIC AND/ORGE REQUIREMENTS**

ALL SEISMIC AND ELECTRICAL EQUIPMENT SHALL BE RECESSED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE FOLLOWING CRITERIA:

FIXED EQUIPMENT ON GRADE: 50% OF OPERATING WEIGHT  
 FIXED EQUIPMENT ON STRUCTURE: 33% OF OPERATING WEIGHT  
 EMERGENCY POWER EQUIPMENT ON GRADE: 50% OF OPERATING WEIGHT  
 EMERGENCY POWER EQUIPMENT ON STRUCTURE: 50% OF OPERATING WEIGHT  
 FOR FLEXIBLY MOUNTED EQUIPMENT, USE 2 X THE ABOVE VALUES.  
 SIMULTANEOUS VERTICAL FORCE - USE 1/2 X HORIZONTAL FORCE.

WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER AND THE FIELD REPRESENTATIVE OF THE OFFICE OF THE STATE ARCHITECT.



**FIRE ALARM SYSTEM BATTERY CAPACITY CALCULATION:**

ITEM	AMPS	HOURS	WH
FIRE ALARM CONTROL PANEL	0.1008A	0.5706H	0.5706
HORN	12 @ 0.028A	24VDC	0.420A
VISUAL UNITS	6 @ 0.0804A	24VDC	0.480A
TOTAL	0.4056A		1.4706
BATTERY TIME REQUIRED	0.4056A X 24.0 HOURS		1.51524H
AMP-HOURS	1.420V X 0.4056A HRS (S MIN)		0.57684
TOTAL BATTERY CAPACITY REQUIRED			1.6158H
BATTERY CAPACITY SPECIFIED			4.0 AH

**FIRE ALARM LEVEL OF AUDIBILITY**

ALARM INDICATING DEVICES OF A FIRE ALARM SYSTEM SHALL BE LOCATED AND MOUNTED AS TO CAUSE A LEVEL OF AUDIBILITY OF NOT LESS THAN 10 DB ABOVE AMBIENT NOISE LEVELS MEASURED FOUR FEET ABOVE THE FLOOR.

AMBIENT NOISE LEVELS SHALL BE CONSIDERED TO BE THAT WHICH CAN NORMALLY BE EXPECTED TO EXIST WHEN THE FACILITY, BUILDING, ROOM OR AREA IS FUNCTIONING UNDER NORMAL PERMITS OR WORKING CONDITIONS, SEC. 2-7203, TITLE 24.

**SCHOOLS FIRE ALARM REQUIREMENTS**

THE FIRE ALARM SYSTEM SHALL CONFORM TO SECTION 2-7203, TITLE 24 OF THE CALIFORNIA ADMINISTRATIVE CODE.

INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE CONSIDERED COMPLETE UNTIL THE STATE ARCHITECT HAS REVIEWED AND APPROVED THE GENERAL CHANGES OF DESIGN AND THE SIGNATURE OF THE DELEGATED RESPONSIBILITY COVERING THE WORK SHOWN ON A PARTICULAR PLAN OR SPECIFICATION, AND APPROVED BY THE OFFICE OF THE STATE ARCHITECT, AND THE STATE ARCHITECT.

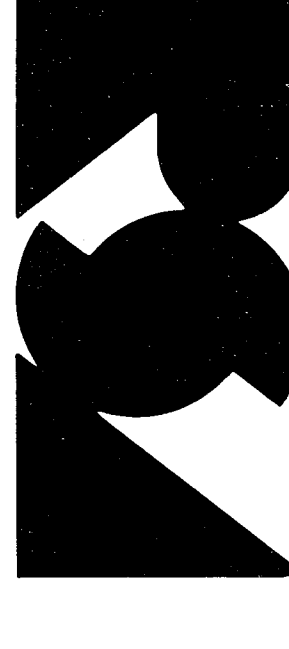
PROTECTIVE SIGNALING EQUIPMENT, A STATE AGENCY TEST REPORT, AND A STATE AGENCY TEST REPORT SHALL BE SUBMITTED TO THE ARCHITECT OF THE ARCHITECTURE AND ENGINEERING SECTION, TITLE 24, C.A.C.

**REFER TO SPECIFICATION SECTION 16400 FOR FA EQUIP & SEM LISTINGS**

THE FIRE ALARM SYSTEM INDICATED IN THESE PLANS SHALL BE USED FOR PROTECTIVE PURPOSES ONLY AND ARE NOT FOR COVERT.

**CODE, RULES AND REGULATIONS**

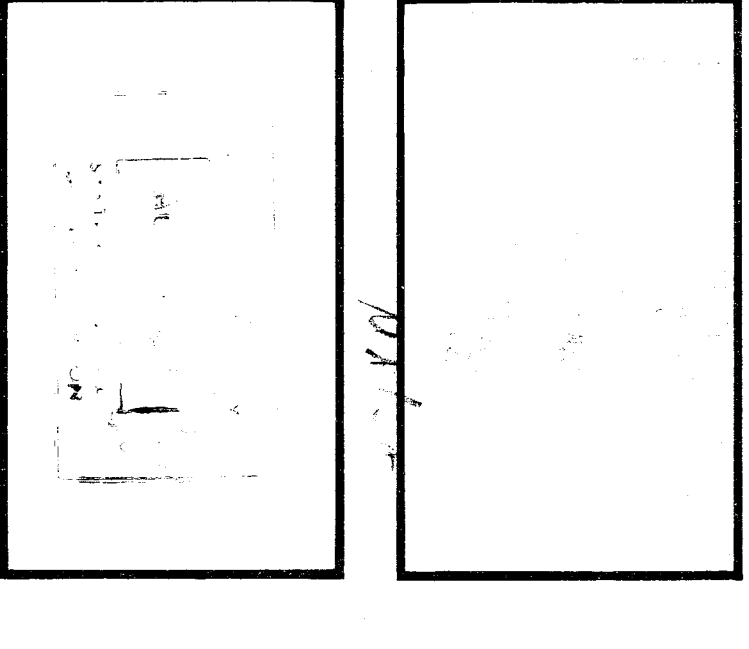
ALL WORK AND MATERIALS SHALL COMPLY WITH THE LATEST REGULATIONS OF THE STATE FIRE MARSHAL, CALIFORNIA CODE OF REGULATIONS, SERVING UTILITY COMPANIES AND OTHER APPLICABLE STATE AND LOCAL ORDINANCES. NOTHING IN THESE PLANS OR SPECIFICATIONS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES, WHERE WORK OF A HIGHER DEGREE IS INDICATED IN THE PLANS OR SPECIFICATIONS. THIS REQUIREMENT SHALL GOVERN.



**ROBERT F. STURH ARCHITECT INC.**  
3121 CALIFORNIA AVE.  
BAKERSFIELD, CA 93304  
(805) 327-1632

**ROBERT F. STURH AIA** C-1810  
**WILLIAM J. MELBY AIA** C-18835  
**DANNY E. ORDIZ AIA** C-14728

**CORNETT ENGINEERING, INC.**  
Consulting Electrical Engineer  
1500 California Street  
Van Nuys, California 91411  
Grand Central Station, California 91331



**F.A. LINE DIAGRAM, SCHEDULES, & DETAILS**

**PIONEER DRIVE MODERNIZATION**  
**BAKERSFIELD CITY SCHOOL DISTRICT**  
BAKERSFIELD, KERN COUNTY, CALIFORNIA

**MARK AND VERIFY** ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT IMMEDIATELY. ALL WORK SHALL CONFORM TO IBC.

MARK DATE	REVISIONS

**JOB NO. 061**  
DRAWN BY: [Signature]  
CHECKED BY: [Signature]  
DATE: [Date]

**E-5**

OR 5 SHEETS