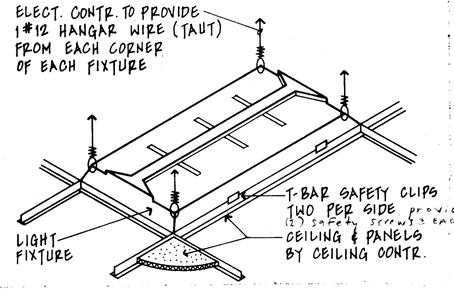
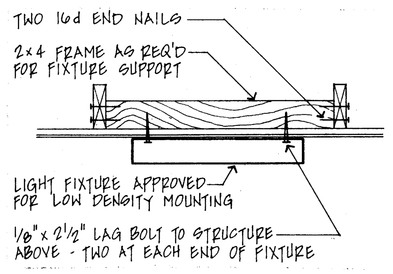
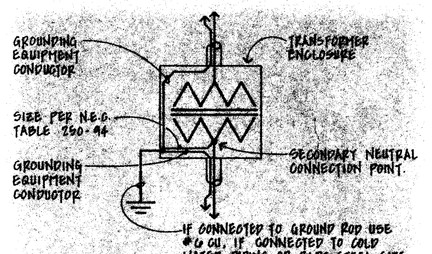


(T-BAR CEILING)

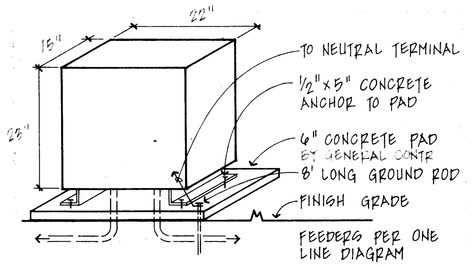
4/E7 RECESSED FIXTURE MT'G



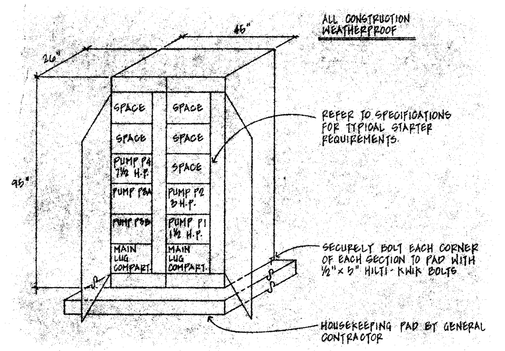


9/E7 XFMR BOND'G & GROUND'G

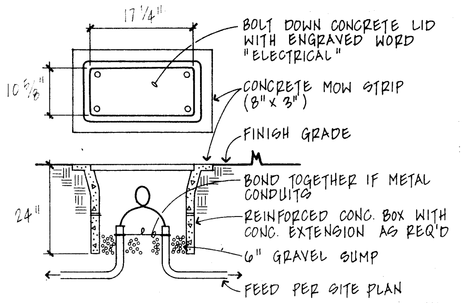
ALL CONSTRUCTION N.F.



5/E7 SURFACE FIXTURE MT'G



10/E7 DRY XFMR



11/E7 PULL BOX

PANEL REPLACEMENT SCHEDULE

AT EACH PANEL LISTED BELOW, REMOVE AND REPLACE EXISTING BUS ASSEMBLY AND CIRCUIT BREAKERS WITH NEW BUS ASSEMBLY AND NEW CIRCUIT BREAKERS (QUANTITIES AND RATINGS AS NOTED). ALL EQUIPMENT SHALL BE MANUFACTURED BY "SQUARE D OR GENERAL ELECTRIC". PROVIDE NEW INTERIOR CIRCUIT BREAKER COVER, TYPEWRITTEN CIRCUIT DIRECTORY AND BAKELITE NAMEPLATE ON THE FRONT COVER WHICH WILL IDENTIFY THE PANEL. PROVIDE TERMINAL BLOCK WITH SOLDERLESS BOX LUGS (WIRE SIZE #6-250 MCM) AS REQUIRED. SQUARE "D" CLASS 9080.

EXISTING PANEL ENCLOSURE AND FRONT COVER SHALL REMAIN, U.O.N. EXISTING DIMENSIONS NOTED ARE APPROXIMATE, CONTRACTOR SHALL FIELD VERIFY. REPAIR OR REPLACE ANY DEFECTIVE LOCKS.

RECONNECT ALL EXISTING FEEDERS AND BRANCH CIRCUITS TO NEW CIRCUIT BREAKERS (WITH SIMILAR RATINGS AS PREVIOUS CIRCUIT BREAKERS IN EXISTING PANEL REMOVED). FRONT OF PANEL SHALL BE FLUSH WITH EXISTING FINISHED WALL OR NEW WALL COVERING.

PANEL "B": 120/208V 3ø 4W, 100 AMP, 30 CKT. PROVIDE THE FOLLOWING CIRCUIT BREAKERS: 1 - 90/3 MAIN, 24 - 20/1, 1 - 50/2. EXISTING ENCLOSURE = 45"H X 20"W.

PANEL "C": 120/208V 3ø 4W, 100 AMP, 24 CKT. PROVIDE THE FOLLOWING CIRCUIT BREAKER: 1 - 70/3 MAIN, 20 - 20/1. EXISTING ENCLOSURE = 42"H X 20"W.

PANEL "F": 120/208V 3ø 4W, 225 AMP, 42 CKT. PROVIDE THE FOLLOWING CIRCUIT BREAKERS: 1 - 150/3 MAIN, 1 - 50/3, 37 - 20/1 AND A 20A 6-POLE ELECTRICALLY OPERATED MECHANICALLY HELD LIGHTING CONTACTOR (TO CONTROL LIGHTS IN ASSEMBLY/CAFETERIA ROOM). CONTRACTOR MAY MOUNT TWO PANELS SIDE BY SIDE. EXISTING ENCLOSURE = 48"H X 42"W.

PANEL "G": 120/208V 3ø 4W, 100 AMP, 24 CKT. PROVIDE THE FOLLOWING CIRCUIT BREAKERS: 1 - 70/3 MAIN, 17 - 20/1, 1 - 30/1, 1 - 50/2. EXISTING ENCLOSURE = 42"H X 20"W.

PANEL "H": 120/208V 3ø 4W, 100 AMP, 24 CKT. PROVIDE THE FOLLOWING CIRCUIT BREAKERS: 1 - 70/3 MAIN, 20 - 20/1. EXISTING ENCLOSURE = 42"H X 20"W.

PANEL "J": 120/208V 3ø 4W, 100 AMP, 12 CKT. PROVIDE THE FOLLOWING CIRCUIT BREAKERS: 1 - 50/3 MAIN, 12 - 20/1. EXISTING ENCLOSURE = 30"H X 20"W.

PANEL "K": 120/208V 3ø 4W, 100 AMP, 24 CKT. PROVIDE THE FOLLOWING CIRCUIT BREAKERS: 1 - 70/3 MAIN, 18 - 20/1. EXISTING ENCLOSURE = 42"H X 20"W.

PANEL "L": 120/208V 3ø 4W, 100 AMP, 24 CKT. PROVIDE THE FOLLOWING CIRCUIT BREAKERS: 1 - 70/3 MAIN, 1 - 40/1, 16 -20/1. EXISTING ENCLOSURE = 42"H X 20"W.

PANEL "M": 120/208V 3ø 4W, 100 AMP, 12 CKT. PROVIDE THE FOLLOWING CIRCUIT BREAKERS: 1 - 50/3 MAIN, 12 - 20/1. EXISTING ENCLOSURE = 30"H X 20"W.

PANEL "N": 120/208V 3ø 4W, 100 AMP, 24 CKT. PROVIDE THE FOLLOWING CIRCUIT BREAKERS: 1 - 70/3 MAIN, 18 - 20/1. EXISTING ENCLOSURE = 42"H X 20"W.

PANEL "O": 120/208V 3ø 4W, 100 AMP, 24 CKT. PROVIDE THE FOLLOWING CIRCUIT BREAKERS: 1 - 70/3 MAIN, 1 - 50/2, 16 - 20/1. EXISTING ENCLOSURE = 42"H X 20"W.

MAIN SWBD: 120/208V 3ø 4W, 600 AMP. PROVIDE THE FOLLOWING CIRCUIT BREAKERS: 1 - 600/3 MAIN, 2 - 150/3, 3 - 100/3, 2 - 90/3, 1 - 15/2. EXISTING ENCLOSURE = 55"W X 13"D.

GENERAL NOTES

GENERAL NOTES (TYPICAL OF ALL BUILDINGS INVOLVED IN MODERNIZATION):

A. COORDINATE SHUTDOWN TIME OF POWER SERVICE TO SCHOOL WITH PG&E AND SCHOOL DISTRICT. 30 DAYS IN ADVANCE, PRIOR TO INTERRUPTION OF SERVICE.

B. SEE MECHANICAL AND PLUMBING DRAWINGS FOR EXACT LOCATIONS OF ALL HVAC AND PLUMBING EQUIPMENT, THERMOSTATS, BY-PASS TIMERS AND TIME CLOCKS REQUIRING ELECTRICAL CONNECTIONS. ALL LOW VOLTAGE CONDUIT AND WIRING FOR EQUIPMENT CONTROLS IS TO BE PROVIDED AND INSTALLED BY CONTROLS CONTRACTOR, U.O.N. VERIFY ALL REQUIREMENTS WITH MECHANICAL DRAWING AND MECHANICAL CONTRACTOR.

C. REMOVE ANY EXISTING DEVICES (RECEPTACLES, FIRE ALARM, BURGLAR ALARM, SWITCHES, PLUGMOLD, ETC.) WHICH INTERFERES WITH THE INSTALLATION OF NEW FINISH MATERIALS AND/OR WALLS REQUIRING PAINTING. REINSTALLED AND RECONNECT ALL ITEMS WHEN NEW FINISH IS COMPLETED. PROVIDE BOX EXTENSION AS REQUIRED FOR EXISTING FLUSH DEVICES TO COMPLY WITH N.E.C. 370-10. SEE ARCHITECTURAL DRAWING FOR WALL TREATMENT SCHEDULES.

D. REMOVE ALL ELECTRICAL DEVICES IN WALLS BEING REMOVED. RE-ROUTE AND RECONNECT ANY FEED-THRU CIRCUITS, PULL OUT ANY IDLE WIRE AND REMOVE ANY IDLE EXPOSED CONDUIT. SEE ARCHITECTURAL DRAWING FOR WALLS BEING REMOVED NOT SHOWN ON ELECTRICAL DRAWINGS. REUSE IDLE CIRCUITS FOR NEW ELECTRICAL WORK WHERE APPLICABLE. WHERE AN ELECTRICAL DEVICE IS REMOVED FROM A WALL THAT REMAINS, RECONNECT ANY FEED-THRU CIRCUITS, PULL OUT ANY IDLE WIRE AND BLANK OFF BOX.

E. REPLACE ANY EXISTING NON-GROUNDING TYPE RECEPTACLE WITH A NEW 20A, 125 VOLT, 3 WIRE GROUNDING TYPE DUPLEX RECEPTACLE.

F. ALL EQUIPMENT AND FIXTURES TO BE REMOVED SHALL REMAIN THE PROPERTY OF THE BAKERSFIELD CITY SCHOOL DISTRICT. AT THE DIRECTION OF THE SCHOOL DISTRICT, THE CONTRACTOR SHALL EITHER DELIVER THIS EQUIPMENT TO THE SCHOOL DISTRICT WAREHOUSE OR DISPOSE OF IT IN AN APPROVED MANNER.

G. NOTE: NOT ALL EXISTING ELECTRICAL EQUIPMENT/DEVICES OR EXPOSED CONDUIT ARE SHOWN ON ELECTRICAL DRAWINGS. ELECTRICAL CONTRACTOR TO VERIFY WITH ARCHITECT WITH ANY EXISTING DEVICES IN QUESTION NOT SHOWN ON ELECTRICAL PLANS WHETHER TO BE REMOVED, RELOCATED OR TO REMAIN). VERIFY EXISTING CONDITIONS IN FIELD.

H. RUN ANY NEW BRANCH CIRCUIT FEEDS IN ACCESSIBLE ATTIC SPACE OR NEW WALL SPACE (NO EXPOSED CONDUIT RUNS PERMITTED ON ROOFS OF REMODELED BUILDINGS). PUNCH THRU ROOF FROM ATTIC TO NEW ROOF TOP HVAC UNITS. FISH DOWN WALLS WITH ANY NEW HOME RUNS TO SUB-PANELS. USE WIREMOLD #700 WHERE NOT POSSIBLE. VERIFY ANY EXPOSED CONDUIT ROUTING WITH ARCHITECT AND SCHOOLS MAINTENANCE SUPERINTENDENT.

J. WHERE A NEW CEILING IS INSTALLED, ANY DEVICES IN OR ON WALLS (CLOCKS, SPEAKERS, BURGLAR ALARM, ETC) BELOW OLD CEILING, SHALL BE RELOCATED TO BELOW NEW CEILING AND RECONNECTED.

K. RELOCATE ANY SWITCHES OR CONTROLLING DEVICES THAT ARE ABOVE +48", DOWN TO +48" (TO CENTER OF BOX) TO COMPLY WITH HANDICAP REQUIREMENTS AND RECONNECT.

L. WHERE USING SURFACE RACEWAY, CONTRACTOR SHALL PROVIDE ALL NECESSARY BOXES, CONNECTORS, MOUNTING HARDWARES AS REQUIRED FOR A COMPLETE SYSTEM. PAINT TO MATCH ADJACENT SURFACE OR AS DIRECTED BY ARCHITECT.

FIXTURE SCHEDULE

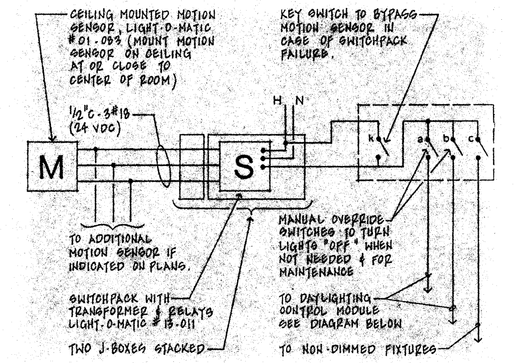
FIXTURE SYMBOL (3-A-150): 3 = CIRCUIT NUMBER, A = FIXTURE TYPE, 150 = FIXT. WATTAGE
ALL FLUORESCENT LAMPS TO BE "WATT - MISERS" OR EQUAL (U.O.N.)
ALL FLUORESCENT BALLASTS TO BE MARK III ENERGY SAVERS (U.O.N.)

TYPE	WATTS	LAMPS	VOLT.	MANUFACTURER	CATALOG Nº	MOUNT	NOTES
A	72	2-F96 T12RS	120V	LITHONIA	2PF96240A12	FLUSH T-BAR	
B	144	4-F96 T12RS		LITHONIA	2GM40A-SCWNH	SURFACE	
C	72	2-F96 T12RS		LITHONIA	2GM40A-SCWNH	SURFACE	
D	72	2-F96 T12RS		LITHONIA ACME DUNBAR	611-240	SURFACE	VANDAL RESISTANT (1)
E	30	INCL.	↓	LITHONIA	HORSIG	RECESS	EXIT SIGN W/EMG BATTERY PACK & REMOTE CAPABILITY
F	16	INCL.	6V	LITHONIA	ELA-NXT-HOBO16	WALL +8'-0"	TWIN HEAD REMOTE LIGHT FIXTURE
G	30	INCL.	120V	LITHONIA	ELR-4	FLUSH T-BAR	EMERGENCY LIGHTING FIXTURE.
H	30	INCL.	↓	LITHONIA	HORSIG-VR	RECESS	LOW LEVEL EXIT SIGN W/VANDAL SHIELD
J	51	2 PL18		FAILSAFE	FSS-3/18	WALL +7'-0"	
K	10	INCL.	↓	LITHONIA	ELM-2	WALL ABOVE DOOR	EMERGENCY LIGHTING FIXTURE.

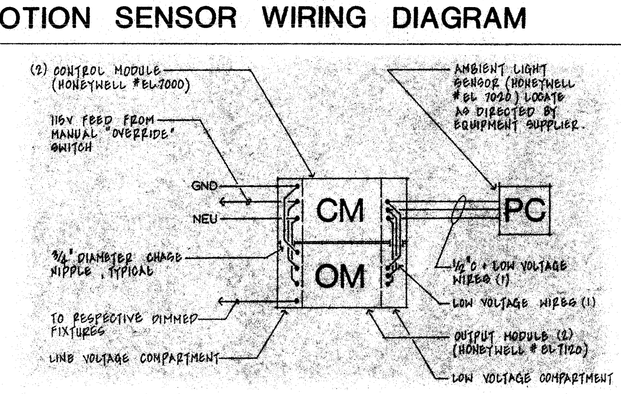
FIXTURE SCHEDULE NOTES:

(1) PROVIDE OWNER WITH TWO TAMPERPROOF SCREWDRIVERS. LITHONIA #980.

1/E7 MOTION SENSOR WIRING DIAGRAM

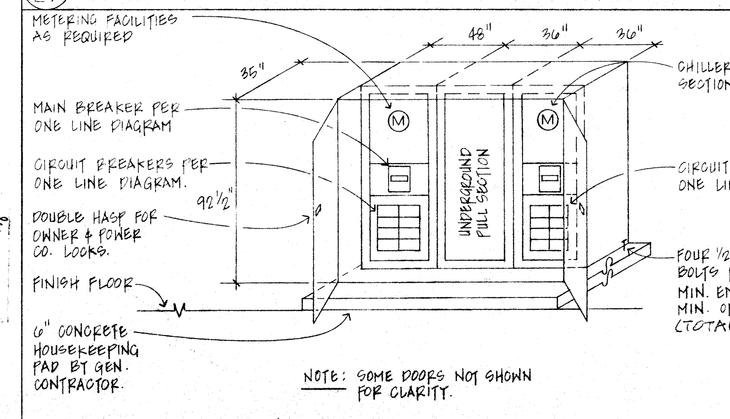


2/E7 DAYLIGHTING CONTROL WIRING DIAGRAM



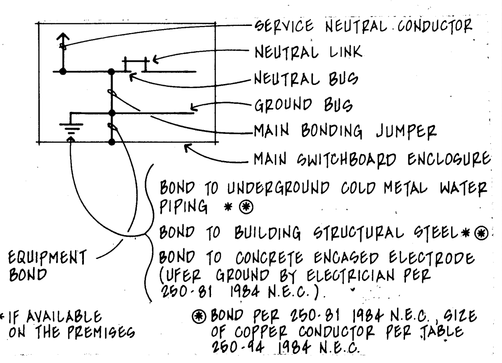
NOTES: (1) VERIFY CONTROL WIRING REQUIREMENTS WITH EQUIPMENT SUPPLIER
(2) ONE MODULE REQUIRED FOR EACH GROUP OF DIMMED FIXTURES

3/E7 MAIN SWITCHBOARD "MSB"



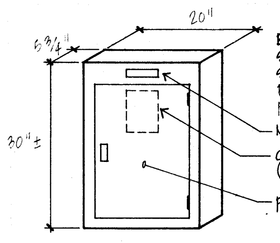
NOTE: SOME DOORS NOT SHOWN FOR CLARITY.

6/E7 MOTOR CONTROL CENTER



7/E7 GROUND'G ELECTRODE SYS.

ALL CONSTRUCTION N.F.



8/E7 SURFACE MT'D PANEL

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Architecture
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(805) 327-0875

C-8 810 C-20 401

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Contractor shall check all drawings shall have precedence over scaled dimension. Contractors shall verify and be responsible for, all dimensions and conditions on the job and this office must be notified of any variations from the dimensions and conditions shown by these drawings. Shop details must be submitted to this office for approval before proceeding with fabrication.

BAKERSFIELD CITY SCHOOL DISTRICT
WAYSIDE ELEMENTARY SCHOOL MODERNIZATION
BAKERSFIELD, CALIFORNIA

WAYSIDE ELEMENTARY SCHOOL
1000 MING AVENUE

Sheet title: PANEL REPLACEMENT SCHEDULE, FIXTURE SCHEDULE & DETAILS

ELECTRICAL
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(209) 739-4971
Cert. No. 7159

Date:	Issued for:
12/22/89	OLA/DSA APPROVAL
10/31/90	DSA BACKCHECK

Date:	Revisions:

Drawn by:
Checked by:
Job no: 1702

Sheet: E•7
Sheet of:

Date:
OLA APPLICATION NO. 77-60812