

Thurgood Marshall Middle School Request for Solar Proposal (RFP)



Issued by Olympia Community Solar

Mason Rolph
Olympia Community Solar
112 4th Ave E, STE 208 Olympia WA, 98501
(360) 481-4020
mason@olysol.org



**REQUEST FOR PROPOSAL
FOR INSTALLATION OF A COMMUNITY SOLAR PROJECT**

Summary

Olympia Community Solar is seeking a turnkey proposal from a qualified firm to install a 100 kW AC solar energy installation (or larger than 100 kW AC if you provide a financial assessment of utilizing PSE Schedule 91) on Thurgood Marshall Middle School. Olympia Community Solar has partnered with the Olympia School District to site our third community solar project on the elementary school.

Olympia Community Solar has developed and funded two community solar projects, the Hummingbird project on the Hands On Children’s Museum and the Sunflower project on the Olympia Farmers Market.

SITE VISIT

There will not be an in person site assessment included in the proposal process. The selected firm will have the opportunity to perform site assessments prior to contracting. Information about the project site, including an experienced solar installer’s evaluation, are included as an appendix along with a power bill and building plans.

SITE ADDRESS

3939 20th Ave NW, Olympia, WA 98502

PROPOSAL SUBMITTAL

Please submit a proposal in PDF form to the points of contact by 5:00pm on June 24th.

BASIC REQUIREMENTS FOR PROPOSING FIRMS

- Must be registered, or indicate that they will register, with the appropriate Business License divisions in Mason County and in good standing to be considered for this project.
- Must be a general contractor and must hold an active Contractor Registration with Washington State Department of Labor and Industries.
- Must prove and maintain Workers’ Compensation and Employer’s Liability insurance.

Proposals Due	6/24/2022 by 5:00pm PST
Firm Selected	The week of June 27th
Installation Work Start	Based on contractor's availability

PROPOSAL FORMAT AND EVALUATION CRITERIA

Please create project proposals in 8½" x 11" document size using a minimum 12-point font size. Proposals shall not exceed 20 pages, including cover page, cover letter and any appendices and/ or attachments.

I. Cover letter

A. The cover letter shall discuss the highlights, key features and distinguishing points of the Proposal. The cover letter must be prepared and signed by a manager having the authority to make offers and enter into financial agreements on behalf of the firm.

II. Proposing firm profile

A. Detail the proposing firm's size and local organizational structure. Describe the demonstrated experience of the firm in designing and installing commercial solar electric systems. Please note any significant installations by the firm in Thurston County.

B. Please indicate your firm's existing installation commitments and crew availability.

III. Qualifications of the project team

A. Identify key personnel for this project including roles, experience, licenses, and certificates (e.g., NABCEP), with corresponding numbers as appropriate. Key personnel should include at a minimum: Owners/Principals; Project Managers; Designers; Installers.

B. Identify any subcontractors the firm plans to use.

IV. Business practices

A. Work practices: Address the firm's health and safety record and practices. Identify any communications with the Washington State Department of Labor and Industries and state or federal human rights agencies regarding workplace issues in the last 3 years.

B. Liability: Provide information on the level of insurance the firm has and provide copies of certificates.

C. Workmanship Warranties: Describe your workmanship warranties.

D. Wages and Labor Practices: Provide information about labor practices, including your commitment to providing family wages, benefits, apprenticeships, or mentoring programs.

V. Work quality

A. Explain why the products included in the proposal are appropriate for this project.

B. Provide descriptions of warranties and support that ensure the long-term durability, operation,

and maintenance of PV installations. Please describe any system monitoring capabilities or production gauges included. **Please attach the manufacturer's specification sheets and warranty information for each major piece of equipment.**

C. Include a solar production estimate. If the proposal includes modules on multiple different roof orientations, please factor each orientation into your production estimate.

VI. Customer service

A. Describe how the firm plans to handle incident reports (trouble, warranty, service calls, and inquiries). Discuss the firm's typical response time on calls, hours of coverage for customer service calls, and process for providing status reports after an incident is logged.

B. List any complaints received by the Better Business Bureau or the Washington Attorney General's office over the last 3 years.

C. Describe the training the firm provides the host including materials or manuals, customer care books, and/or support for later questions and system performance.

VII. Special Circumstance

A. Contractors, subcontractors, or employees who will have regularly scheduled unsupervised access to children must pass a criminal background check through the Washington State Patrol criminal investigation system under RCW 43.43.830-43.43.834, 10.97.030 and 10.97.050, and through the Federal Bureau of Investigation. The record check shall include a fingerprint check using a complete Washington State criminal identification fingerprint card. Tenant shall provide a copy of the record to the District upon request. Tenant shall pay for the requirements set forth in this paragraph. Tenant shall immediately remove, at no cost to Landlord, any employee or other person who Landlord deems unsuitable to perform work on the premises because of the existence of a criminal record.

B. Pursuant to RCW 28A.400.330, Contractor is prohibited from assigning any person to perform any work on the Premises where there may be contact with children if that person has pled guilty to or been convicted of any felony specified in RCW 28A.400.322. Failure to comply with this section shall be grounds for Olympia Community Solar to immediately terminating contract.

C. Use of Tobacco Products Prohibited. Contractor is required at all times to comply with the prohibition on the use of all tobacco products on public school property consistent with RCW 28A.210.310.

The main school building - photographer facing north.



Below: The Gym building – photographer facing west.



Marshall Middle School, Olympia WA

Main Electrical Room

Subpanels in Attic Electrical Room

Best solar access and area



Main electrical room access shown (the door the man is reaching towards), external door and primary meter.



Main Distribution Panel

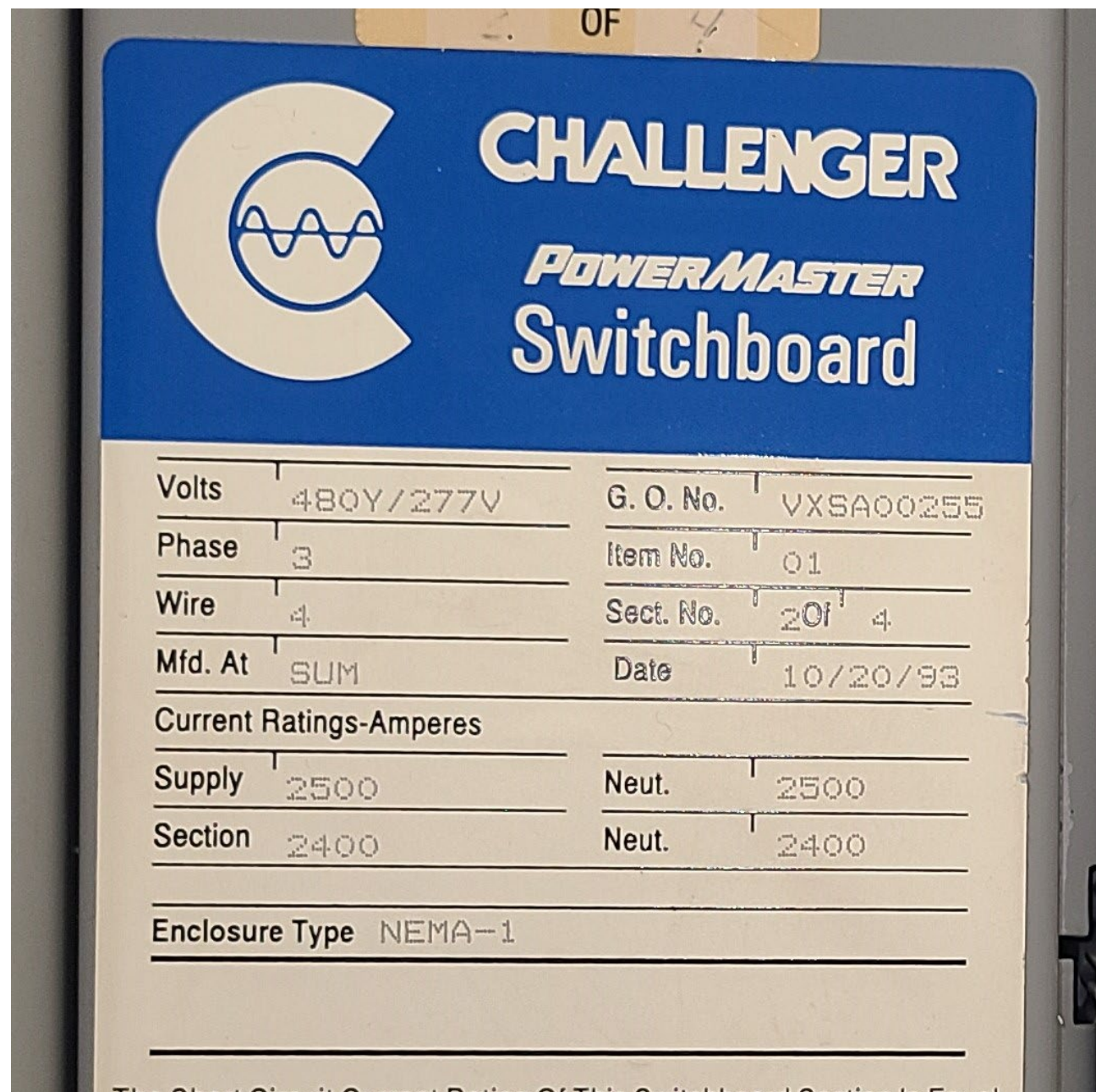
This Bucket
feeds panel BH
in attic 480/277
400A fused



Section 2 has a 2400A buss,
plenty of capacity for solar. At
277/480 100kw net metered
would be a 150A output. (6%).

Use SMA Core 1 inverters or SE
3 phase inverters for 277/480
grid; no more than 100kw AC

Max grid array size is 150 kw DC



BH Panel located in Attic,
480/277 which could be
“tapped” 400A feeder, 400A
main

*Would require a variance from PSE for
them to use the main shut off in the
electrical room as the point of disconnect.



Electric Detail Information: 3939 20TH AVE NW, Olympia

Rate Schedule	Meter #	Start Date	End Date	Multiplier	Kilowatt Hours (kWh)	Electric Demand (kW)	Reactive Power (KVAR)	Meter Read Type
		Read	Read					
Commercial 25	Z003956606	1/28	2/28	120	—	—	39,120	Actual Read
		94521	94847					
Commercial 25	Z003956606	1/28	2/28	120	—	126.72	—	Actual Read
		0	1,056					
Commercial 25	Z003956606	1/28	2/28	120	41,040	—	—	Actual Read
		89965	90307					
Production	A099034440	1/28	2/28	1	2	—	—	Actual Read
		6042	6044					

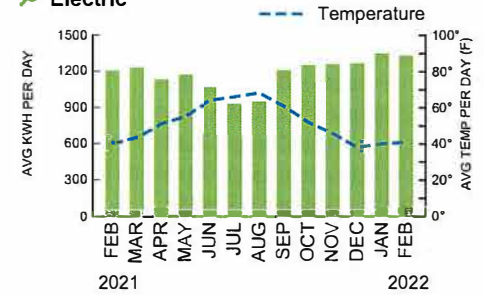
Your Electric Charge Details (31 days)

41,040 kWh used for service 1/29/2022 - 2/28/2022

	Rate x Unit	=	Charge
Basic Charge	\$53.95 per month	\$	53.95
Net Electricity			
Tier 1 (First 20000 kWh Used)	0.099295 20,000 kWh		1,985.90
Tier 2 (Above 20000 kWh Used)	0.072668 21,040 kWh		1,528.93
Electric Demand Charge (First 50 KW Used)	0.000000 50 kW		0.00
Electric Demand Charge (Above 50 KW Used)	10.120000 76.72 kW		776.41
Electricity			
Reactive Power Charge	0.003180 39,120 kVARh		124.40
Other Electric Charges & Credits			
Electric Cons. Program Charge	0.004088 41,040 kWh		167.77
Power Cost Adjustment	0.005616 41,040 kWh		230.48
Merger Credit	0.000000 41,040 kWh		0.00
Federal Wind Power Credit	-0.001446 41,040 kWh		-59.34
Renewable Energy Credit	-0.000022 41,040 kWh		-0.90
Subtotal			4,807.60
Taxes			
State Utility Tax (\$186.20 included in above charges)	3.873%		
Effect of Olympia City Tax	9.108%	\$4,807.60	437.88
Current Electric Charges			\$ 5,245.48

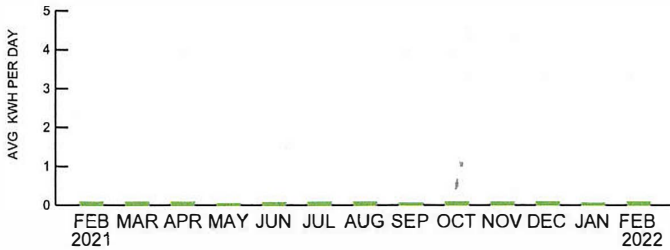
Your Usage Information

Electric



	Last Year	This Year
Average daily kWh	1,200.00	1,323.87
Average daily cost	\$135.36	\$169.21
Days in billing cycle	29	31
Average temperature	40°F	41°F

Electric Production Information



	Last Year	This Year
Production (1/29/2022 - 2/28/2022)	2	2
Total annual production		14 kWh

NOTE: Production energy is measured before load. Annual cycle is from July 1 through June 30. Production payments are made annually by PSE and are separate from the monthly net metering credit.



LIGHTING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	LAMPS	VOLTS WATTS	MOUNTING & REMARKS
RF-1	HUBBELL #RS2GNA02	(2)F032-T8 4100 K	277V	LAY-IN ELECTRONIC BALLAST
RF-2	HUBBELL #RS3GNA02	(3)F032-T8 4100 K	277V	LAY-IN ELECTRONIC BALLAST
RF-3	PRESCOLITE #CFR326-B492	(3)26W 4100 K	277V	RECESSED ENERGY SAVING BALLAST
RF-4	HUBBELL #RS2FNA02	(2)F032-T8 4100 K	277V	RECESSED WITH PLASTER FLANGE
RF-5	HUBBELL #RS3FNA02	(3)F032-T8 4100 K	277V	RECESSED WITH PLASTER FLANGE
RF-6	LITHONIA "PARAMAX" #2PM3GB33224LD	(3)F032-T8 4100 K	277V	LAY-IN ELECTRONIC BALLAST
RF-7	LITHONIA "PARAMAX" #2PM32318LD	(2)F032-T8 4100 K	277V	LAY-IN ELECTRONIC BALLAST
SF-1	HUBBELL #SSC2CA02E4	(2)F032-T8 4100 K	277V	SURFACE MOUNTED (1'X4') ELECTRONIC BALLAST
SF-2	HUBBELL #SSD2CA02E4	(2)F032-T8 4100 K	277V	SURFACE MOUNTED (2'X4') ELECTRONIC BALLAST
SF-3	HUBBELL #IG042R-PA10	(2)F032-T8 4100 K	277V	SURFACE MOUNTED W/WIRE GUARD ELECTRONIC BALLAST
SF-4	HUBBELL #EDL042RSPDR4	(2)F032-T8 4100 K	277V	SURFACE MOUNTED - DAMP LABEL ELECTRONIC BALLAST
SF-5	HUBBELL #EWL042RTPDR4	(2)F032-T8 4100 K	277V	SURFACE MOUNTED - WET LABEL ELECTRONIC BALLAST
SF-6	HUBBELL #SSD3CA02E4	(4)F032-T8 4100 K	277V	SURFACE MOUNTED (2'X4') ELECTRONIC BALLAST
SF-7	HUBBELL #SSD3NA02E4	(3)F032-T8 4100 K	277V	SURFACE MOUNTED (2'X4') ELECTRONIC BALLAST
PF-1	PEERLESS #LD3-030460-24	(18)F032-T8 4100 K	277V	PENDANT MOUNTED ELECTRONIC BALLAST
PF-2	PEERLESS #LD3-030460-20	(15)F032-T8 4100 K	277V	PENDANT MOUNTED ELECTRONIC BALLAST
PF-3	PEERLESS #LD3-403502-20	(15)F032-T8 4100 K	277V	PENDANT MOUNTED ELECTRONIC BALLAST
PF-4	PEERLESS #LD3-403502-16	(12)F032-T8 4100 K	277V	PENDANT MOUNTED ELECTRONIC BALLAST
PF-5	PEERLESS #LD3-403502-12	(9)F032-T8 4100 K	277V	PENDANT MOUNTED ELECTRONIC BALLAST
PF-6	PEERLESS #LD3-403502-8	(6)F032-T8 4100 K	277V	PENDANT MOUNTED ELECTRONIC BALLAST
PF-7	HUBBELL #IG042R-PA10	(2)F032-T8 4100 K	277V	PENDANT MOUNTED W/WIRE GUARD ELECTRONIC BALLAST
PF-8	HUBBELL #EDL042RSPDR1	(2)F032-T8 4100 K	277V	PENDANT MOUNTED - DAMP LABEL ELECTRONIC BALLAST
PF-9	HUBBELL #SSD3NA02E4	(3)F032-T8 4100 K	277V	PENDANT MOUNTED ELECTRONIC BALLAST
PF-10	HUBBELL #SSC2CA02E4	(2)F032-T8 4100 K	277V	PENDANT MOUNTED ELECTRONIC BALLAST
PF-11	HUBBELL #SW42R-B4	(2)F032-T8 4100 K	277V	PENDANT MOUNTED W/WIRE GUARD ELECTRONIC BALLAST
PH-1	GE-OMNIGLOW "LOW PROFILE" #OMGL-40-M-277-A-E-14-G	400W SUPER METAL HALIDE	277V	PENDANT MOUNTED WITH WIRE GUARD
PH-2	GE-OMNIGLOW "LOW PROFILE" #OMGL-40-M-277-A-E-14-G-B	400W SUPER METAL HALIDE	277V	PENDANT MOUNTED WITH QUARTZ RESTRIKE SYSTEM AND WIRE GUARD.
PH-3	HOLOPHANE - ELECTRA #BL2E-40LMH-MT-L-E-X-EM	400W MH 250W QUARTZ	277V	PENDANT MOUNTED WITH QUARTZ RESTRIKE SYSTEM.
PH-4	HOLOPHANE - ELECTRA #BL2E-40LMH-MT-L-E-X-ER	400W MH 250W QUARTZ	120V	PENDANT MOUNTED WITH AUXILIARY QUARTZ SYSTEM.
PH-5	MCPHILBEN #3B 264	150W HPS	277V	PENDANT MOUNTED
RH-1	MOLDCAST #MDL-7	100W HPS	277V	RECESSED IN SOFFIT ASYMMETRIC DISTRIBUTION
RH-2	MOLDCAST #MDL-6	100W HPS	277V	RECESSED IN SOFFIT LONG & NARROW DISTRIBUTION
RH-3	MOLDCAST #MDL-5	100W HPS	277V	RECESSED IN SOFFIT SYMMETRIC DISTRIBUTION
WI-1	HUBBELL/MARCO #B2S	(1) 100W INCANDESCENT	120V	WALL MOUNTED GLASS OPAL DIFFUSER
WI-2	HUBBELL NVX15GHC	(1) 100W INCANDESCENT	120V	WALL MOUNTED WET LABEL

* COLOR AS SELECTED BY ARCHITECT

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	RECESSED FLUORESCENT LIGHT FIXTURE		MOTOR CONNECTION (D INDICATES FIRE/SMOKE DAMPER)
	SURFACE OR PENDANT MOUNT FLUORESCENT LIGHT FIXTURE		DISCONNECT SWITCH
	WALL MOUNT H.I.D. LIGHT FIXTURE		FUSED DISCONNECT SWITCH
	RECESSED H.I.D. LIGHT FIXTURE		COMBINATION DISCONNECT / STARTER SWITCH
	FLUORESCENT STRIP LIGHT		FIRE ALARM - SMOKE DETECTOR (D INDICATES DUCT DETECTOR)
	FIXTURE WITH EMERGENCY BATTERY PACK (BATTERY PACK SHALL BE "BODINE B50")		FIRE ALARM - HEAT/THERMAL DETECTOR
	WALL MOUNTED INCANDESCENT LIGHT FIXTURE		FIRE ALARM - PULL STATION - MOUNT AT +45"
	EXIT LIGHT FIXTURE		FIRE ALARM - COMBINATION HORN/STROBE - MOUNTED AT +80"
	WALL MOUNTED EXIT LIGHT FIXTURE		FIRE ALARM - COMBINATION MINI HORN/STROBE - MOUNTED AT +80"
	EMERGENCY BATTERY PACK WITH TWIN HEAD FLOOD		DOOR HOLDER - MOUNTED IN DOOR FRAME BY DOOR SUPPLIER
	POLE LIGHT FIXTURE		REMOTE INDICATOR LAMP FOR DUCT DETECTOR, MOUNT AT +96"
	CONTROL CONTACTOR ENCLOSURE		BELL (A INDICATES ALARM)(P INDICATES PROGRAM)
	SINGLE POLE SWITCH		CLOCK
	SINGLE POLE KEYED SWITCH		COMBINATION CLOCK / SPEAKER
	SWITCH WITH PILOT LIGHT		INTERCOM HANDSET
	DIMMING SWITCH - SINGLE POLE, 600 WATT		SPEAKER
	THREE WAY SWITCH		SOUND SYSTEM MICROPHONE JACK
	MULTI-GANGED SWITCH (LOWER CASE LETTERS INDICATES SWITCHING)		SPEAKER HORN
	MOTOR RATED SWITCH		VOLUME CONTROL
	DUPLEX RECEPTACLE (E INDICATES EXISTING TO BE REPLACED)		REMOTE HOUSE LIGHT CONTROL STATION
	DUPLEX RECEPTACLE (G INDICATES GROUND FAULT CIRCUIT INTERRUPTER AT +45")		STAGE LIGHTING CONTROL STATION
	COMPUTER RECEPTACLE WITH ISOLATED GROUND DUPLEX OR FOURPLEX AS INDICATED PROVIDE ORANGE COLORED RECEPTACLES		CONSTRUCTION NOTES
	FLOOR MOUNTED DUPLEX RECEPTACLE		W INDICATES WEATHERPROOF FOR ALL DEVICES
	FOURPLEX RECEPTACLE		CONDUIT STUB OUT
	COMBINATION FOURPLEX RECEPTACLE (WITH ISOLATED SPONDING), TELEPHONE & DATA FLOOR BOX		HOMERUN TO PANEL & CIRCUIT NUMBERS AS INDICATED ON PLANS
	SINGLE RECEPTACLE		RACEWAY CONCEALED IN WALL OR CEILING
	FOURPLEX DROP CORD WITH KELLUM GRIP		RACEWAY CONCEALED UNDERGROUND OR UNDER FLOOR, P = PRIMARY, S = SECONDARY
	SPECIAL PURPOSE OUTLET - 208 VOLT, 1 PHASE, AMPERES AS INDICATED		MARKS INDICATE NUMBER OF #12 AWG UNLESS NOTED OTHERWISE
	SPECIAL PURPOSE OUTLET - 208 VOLT, 3 PHASE, AMPERES AS INDICATED		GROUNDING CONDUCTOR
	TELEPHONE RECEPTACLE - 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE		FLEXIBLE CONDUIT
	COMMUNICATION / DATA JUNCTION BOX (4" X 5" BOX WITH 2 GANG PLASTIC PLATE) 3/4" C.O. TO ACCESSIBLE CEILING SPACE		GROUNDING ELECTRODE
	AUDIO VISUAL JUNCTION BOX		JUNCTION BOX - SIZE PER CODE (F INDICATES FIRE ALARM SYSTEM)
	TELEVISION OUTLET - MOUNT @ +18" 3/4" C.O. TO ACCESSIBLE CEILING SPACE		AUXILIARY JACK
	277 480 VOLT PANELBOARD		PHOTOCELL CONTROL
	120 208V PANELBOARD		TIME CLOCK CONTROL
	TRANSFORMER		INTERCOM DESKSET
	INTERCOM VACUUM FLUORESCENT DISPLAY (6 GANG BOX, 3/4" C.O. TO C RACK)		INTERCOM ADMIN. DESKSET
			SURGE PROTECTOR
			SURFACE METAL RACEWAY

LIGHTING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	LAMPS	VOLTS WATTS	MOUNTING & REMARKS
WH-1	MOLDCAST #MDL-1	100W HPS	277V	WALL MOUNTED (RECESSED IN BRICK) H.P.F. BALLAST
EM-1	DUAL LITE #ML-4F		277V	WALL MOUNTED WITH WIRE GUARD
EX-1	DUAL LITE #CWGNB-1M2E		277V	WALL MOUNTED ELECTROLUMINESCENT LAMP
EX-2	DUAL LITE #CSGNB-1M2E		277V	CEILING OR END MOUNTED SINGLE FACE ELECTROLUMINESCENT LAMP
EX-3	DUAL LITE #CWGNB-1M2E		277V	WALL MOUNTED WITH WIRE GUARD ELECTROLUMINESCENT LAMP
EX-4	DUAL LITE #CDGNB-1M2E		277V	CEILING OR END MOUNTED DOUBLE FACE ELECTROLUMINESCENT LAMP

LIGHTING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	LAMPS	VOLTS WATTS	MOUNTING & REMARKS
AH-1	GARDCO FORM 10 EH19-1-FM-277-400HPS	400W HPS	277V	US POLE SNTS 305-11 BASE MOUNTED SEE DETAIL
AH-2	GARDCO FORM 10 EH19-1-3-277-400HPS	400W HPS	277V	US POLE SNTS 305-11 BASE MOUNTED SEE DETAIL
AH-3	GARDCO FORM 10 EH19-2-3-277-400HPS	400W HPS	277V	US POLE SNTS 305-11 BASE MOUNTED SEE DETAIL
AH-4	GARDCO FORM 10 EH19-1-1-277-400HPS	400W HPS	277V	US POLE SNTS 305-11 BASE MOUNTED SEE DETAIL

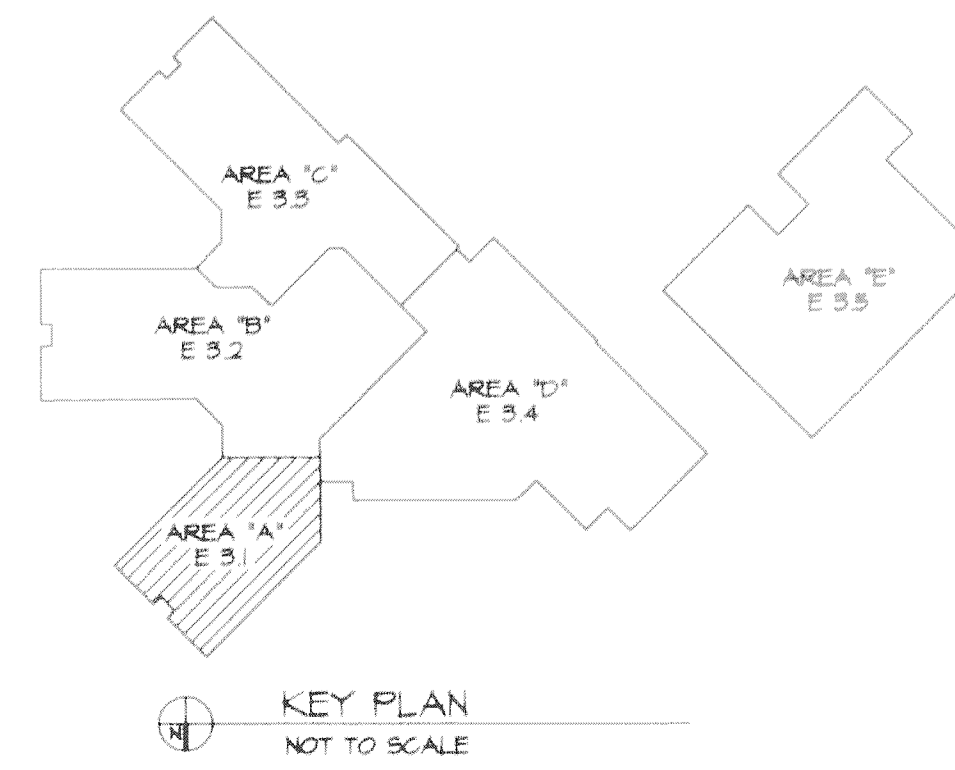
* COLOR AS SELECTED BY ARCHITECT

WESTSIDE MIDDLE SCHOOL
 OLYMPIA SCHOOL DISTRICT
 ERICKSON MCGOVERN ARCHITECTS 120 SO. 131 ST., TACOMA WA. 98444 (206) 531-0206

ME
 COMM. REV.
 DRAWN BY: DMN
 DATE: 5/7/93
 SHEET: E2.1
 OF:



FLOOR PLAN — AREA 'A' — LIGHTING
 SCALE: 1/8" = 1'-0"

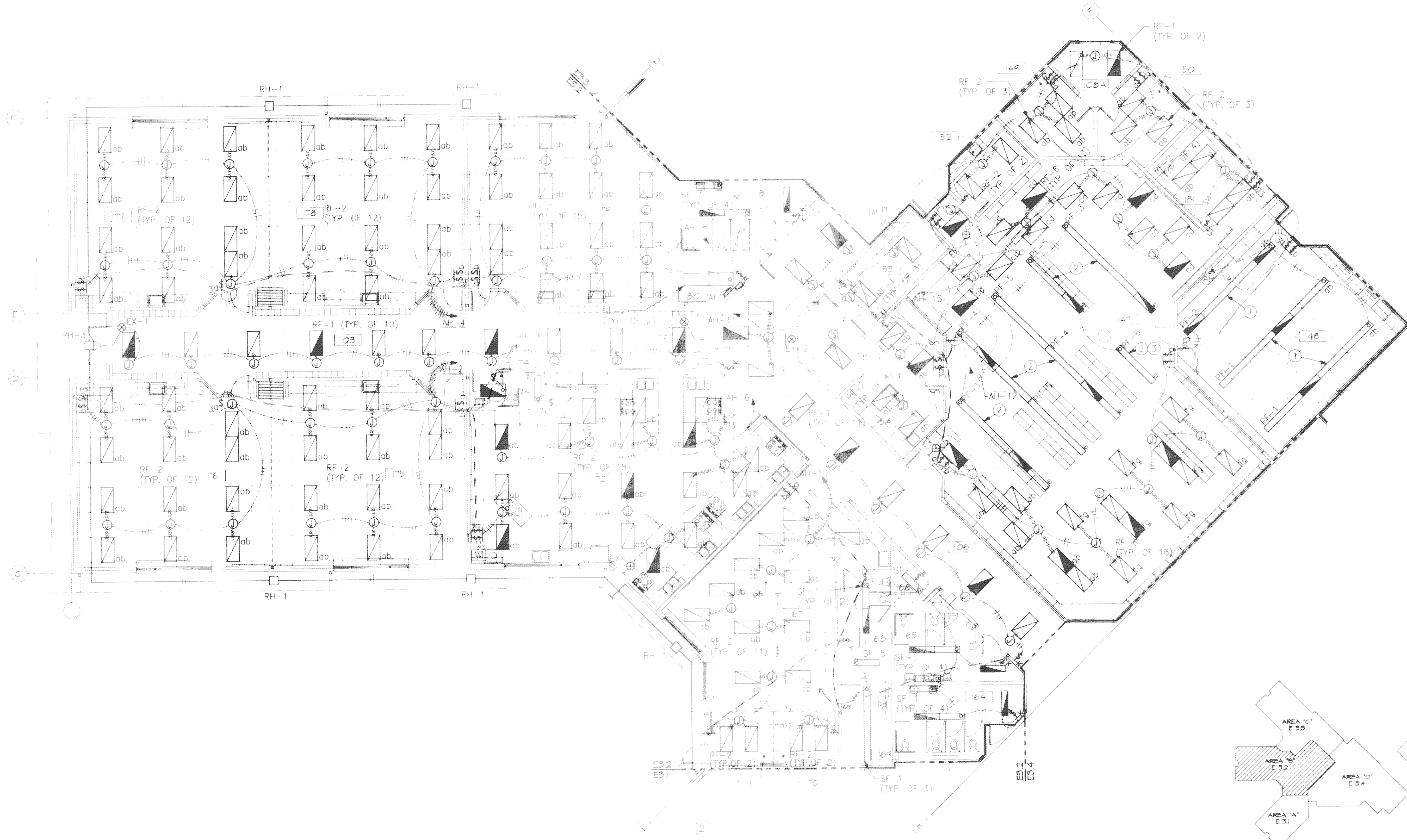


KEY PLAN
 NOT TO SCALE

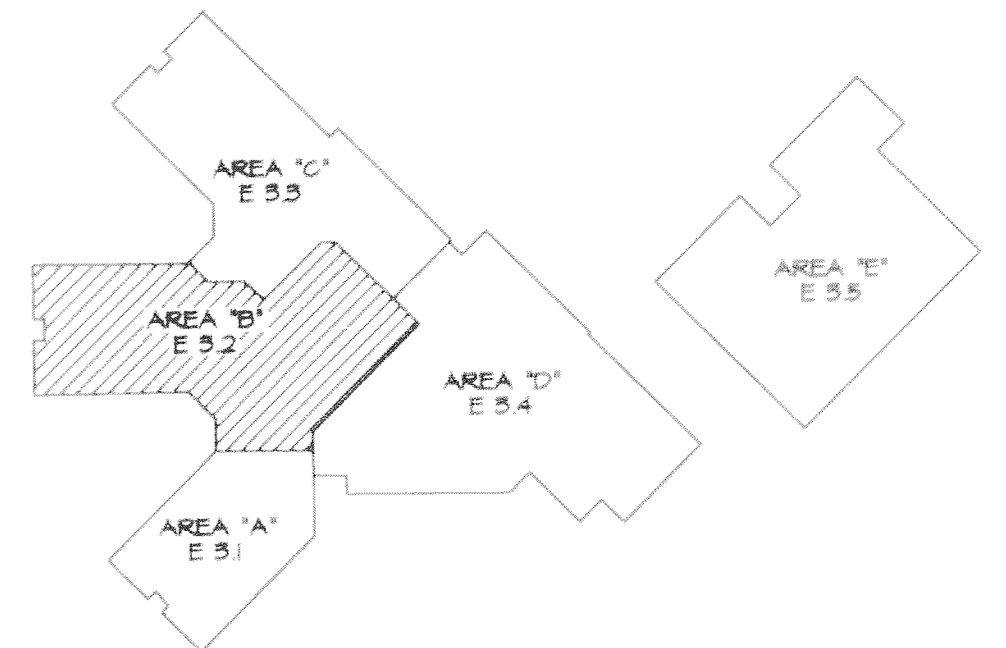


CONSTRUCTION NOTES

- ① INSTALL WITH TOP OF FIXTURE AT +10'-0" A.F.F.
- ② INSTALL WITH BOTTOM OF FIXTURE AT +15'-0" A.F.F.
- ③ DO NOT HANG FIXTURE FROM GW-LAM BEAM. OFFSET PENDANTS TO SOUTHWEST SIDE AS INDICATED.



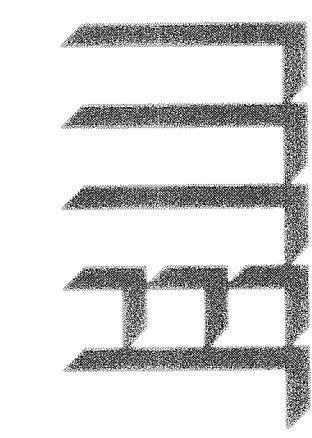
FLOOR PLAN — AREA 'B' — LIGHTING
 SCALE: 1/8" = 1'-0"



KEY PLAN
 NOT TO SCALE

FLOOR PLAN - AREA 'B' - LIGHTING

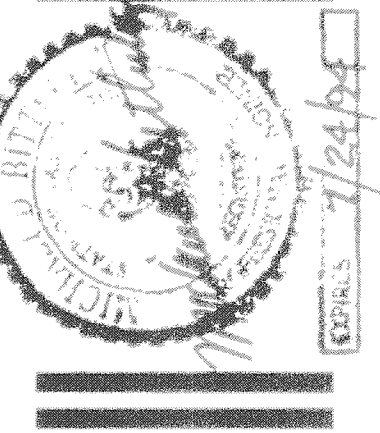
WESTSIDE MIDDLE SCHOOL
 OLYMPIA SCHOOL DISTRICT



ERICKSON MCGOVERN ARCHITECTS 120 SO. 131 ST., TACOMA WA. 98444 (206) 531-0206

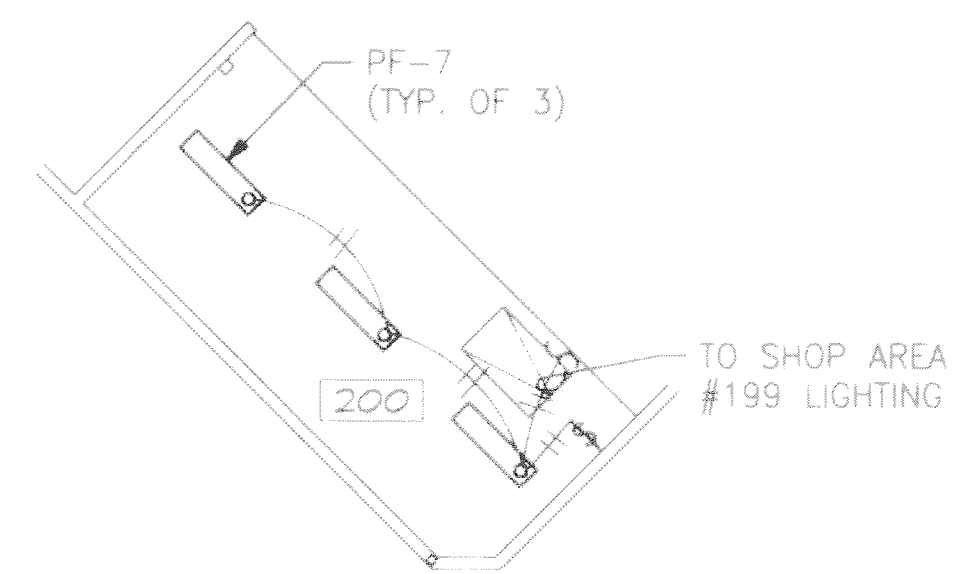
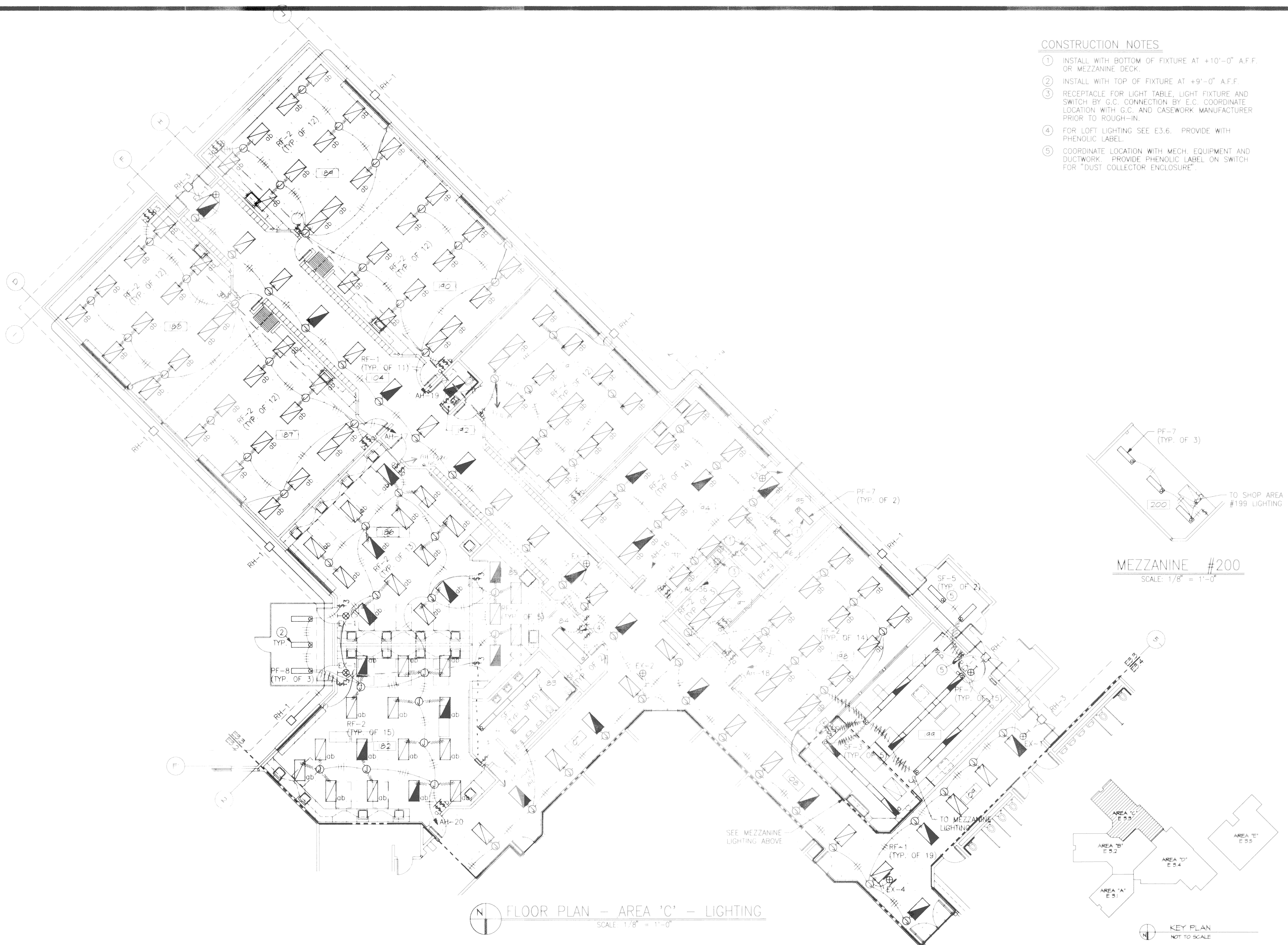
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 DATE 5/7/93

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E3.2
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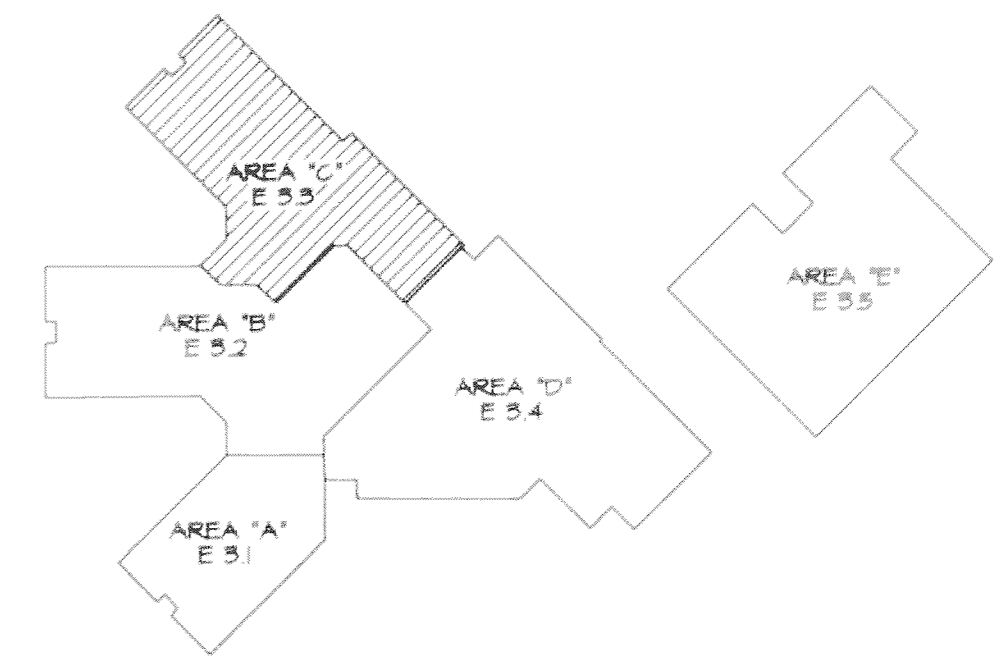


CONSTRUCTION NOTES

- ① INSTALL WITH BOTTOM OF FIXTURE AT +10'-0" A.F.F. OR MEZZANINE DECK.
- ② INSTALL WITH TOP OF FIXTURE AT +9'-0" A.F.F.
- ③ RECEPTACLE FOR LIGHT TABLE, LIGHT FIXTURE AND SWITCH BY G.C. CONNECTION BY E.C. COORDINATE LOCATION WITH G.C. AND CASEWORK MANUFACTURER PRIOR TO ROUGH-IN.
- ④ FOR LOFT LIGHTING SEE E3.6. PROVIDE WITH PHENOLIC LABEL.
- ⑤ COORDINATE LOCATION WITH MECH. EQUIPMENT AND DUCTWORK. PROVIDE PHENOLIC LABEL ON SWITCH FOR "DUST COLLECTOR ENCLOSURE".



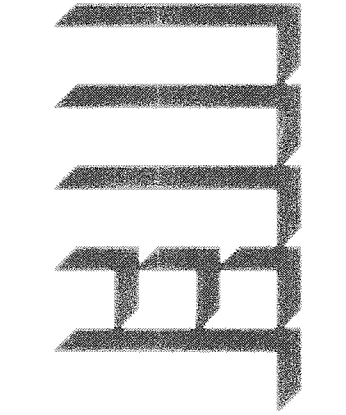
MEZZANINE #200
SCALE: 1/8" = 1'-0"



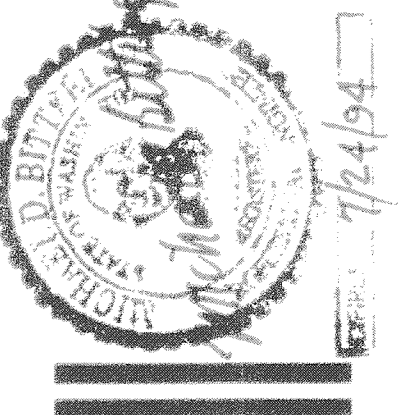
KEY PLAN
NOT TO SCALE

FLOOR PLAN - AREA 'C' - LIGHTING
SCALE: 1/8" = 1'-0"

FLOOR PLAN - AREA 'C' - LIGHTING
WESTSIDE MIDDLE SCHOOL
OLYMPIA SCHOOL DISTRICT
ERICKSON MCGOVERN ARCHITECTS 120 SO. 131 ST., TACOMA WA. 98444 (206) 531-0206



COMM. REV.	
DRAWN DMN	DATE 5/7/93
SHT	E3.3
OF	

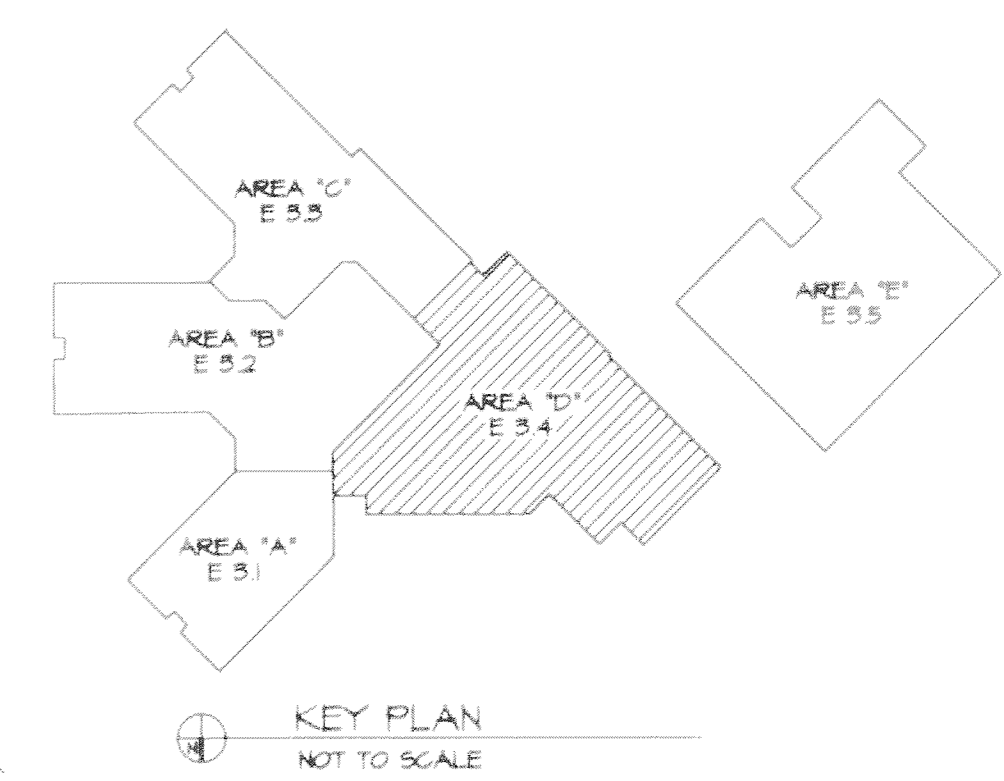
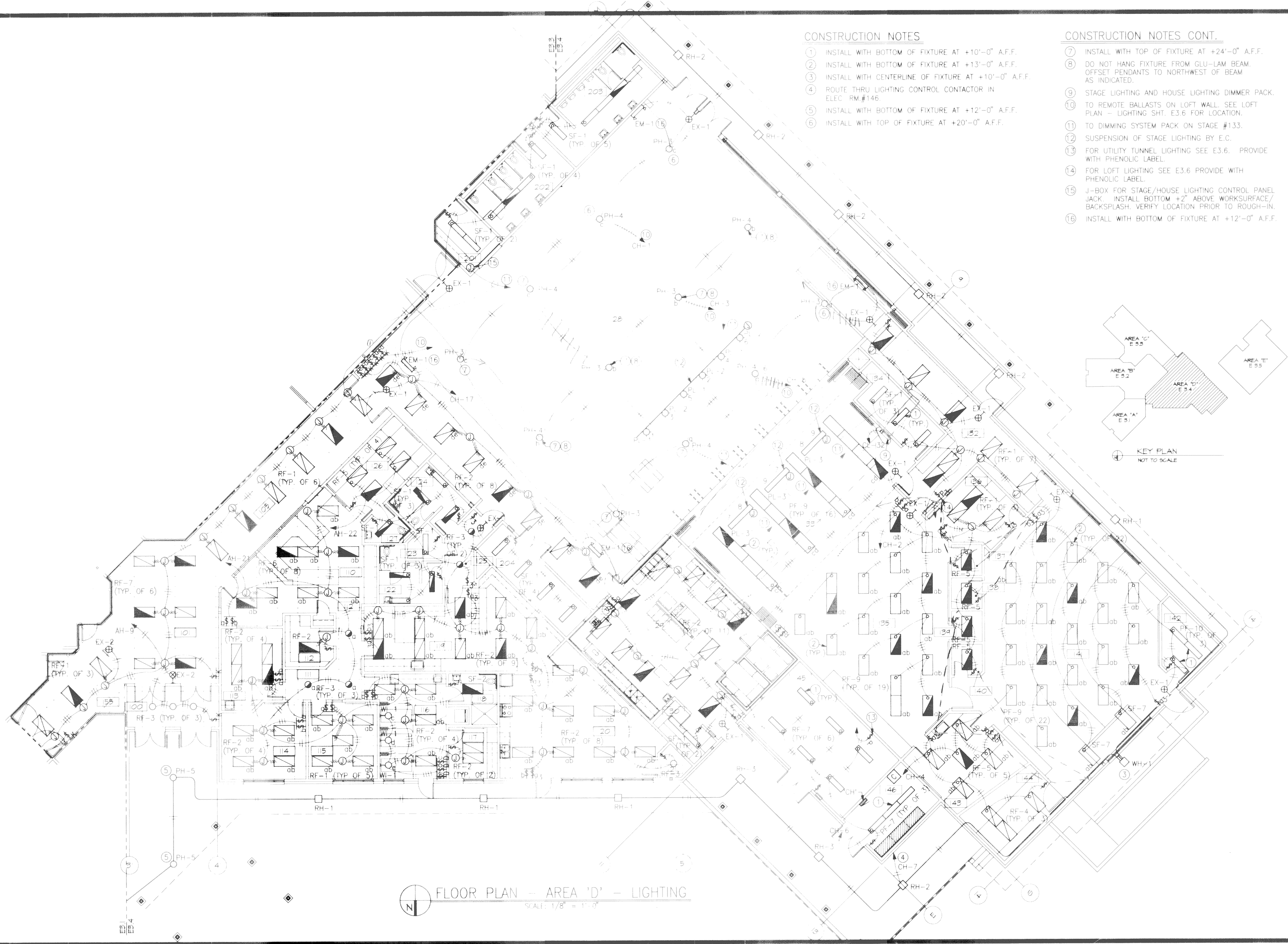


CONSTRUCTION NOTES

- 1 INSTALL WITH BOTTOM OF FIXTURE AT +10'-0" A.F.F.
- 2 INSTALL WITH BOTTOM OF FIXTURE AT +13'-0" A.F.F.
- 3 INSTALL WITH CENTERLINE OF FIXTURE AT +10'-0" A.F.F.
- 4 ROUTE THRU LIGHTING CONTROL CONTACTOR IN ELEC. RM.#146.
- 5 INSTALL WITH BOTTOM OF FIXTURE AT +12'-0" A.F.F.
- 6 INSTALL WITH TOP OF FIXTURE AT +20'-0" A.F.F.

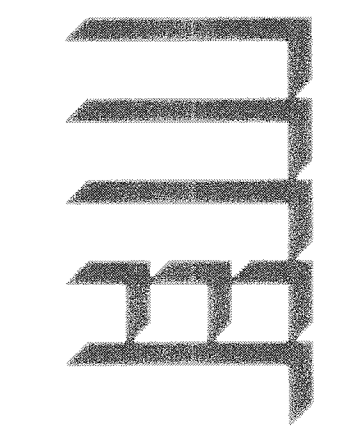
CONSTRUCTION NOTES CONT.

- 7 INSTALL WITH TOP OF FIXTURE AT +24'-0" A.F.F.
- 8 DO NOT HANG FIXTURE FROM GLU-LAM BEAM. OFFSET PENDANTS TO NORTHWEST OF BEAM AS INDICATED.
- 9 STAGE LIGHTING AND HOUSE LIGHTING DIMMER PACK.
- 10 TO REMOTE BALLASTS ON LOFT WALL. SEE LOFT PLAN - LIGHTING SHT. E3.6 FOR LOCATION.
- 11 TO DIMMING SYSTEM PACK ON STAGE #133.
- 12 SUSPENSION OF STAGE LIGHTING BY E.C.
- 13 FOR UTILITY TUNNEL LIGHTING SEE E3.6. PROVIDE WITH PHENOLIC LABEL.
- 14 FOR LOFT LIGHTING SEE E3.6 PROVIDE WITH PHENOLIC LABEL.
- 15 J-BOX FOR STAGE/HOUSE LIGHTING CONTROL PANEL JACK. INSTALL BOTTOM +2" ABOVE WORKSURFACE/BACKSPASH. VERIFY LOCATION PRIOR TO ROUGH-IN.
- 16 INSTALL WITH BOTTOM OF FIXTURE AT +12'-0" A.F.F.

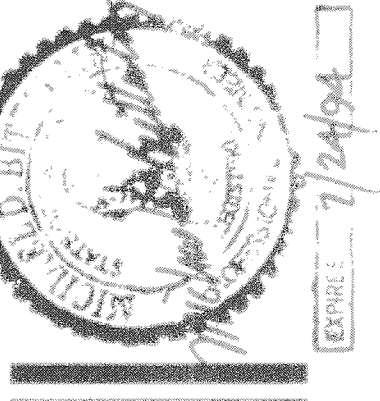


FLOOR PLAN - AREA 'D' - LIGHTING
 SCALE: 1/8" = 1'-0"

WESTSIDE MIDDLE SCHOOL
 OLYMPIA SCHOOL DISTRICT
 ERICKSON MCGOVERN ARCHITECTS 120 SO. 131 ST., TACOMA WA. 98444 (206) 531-0206

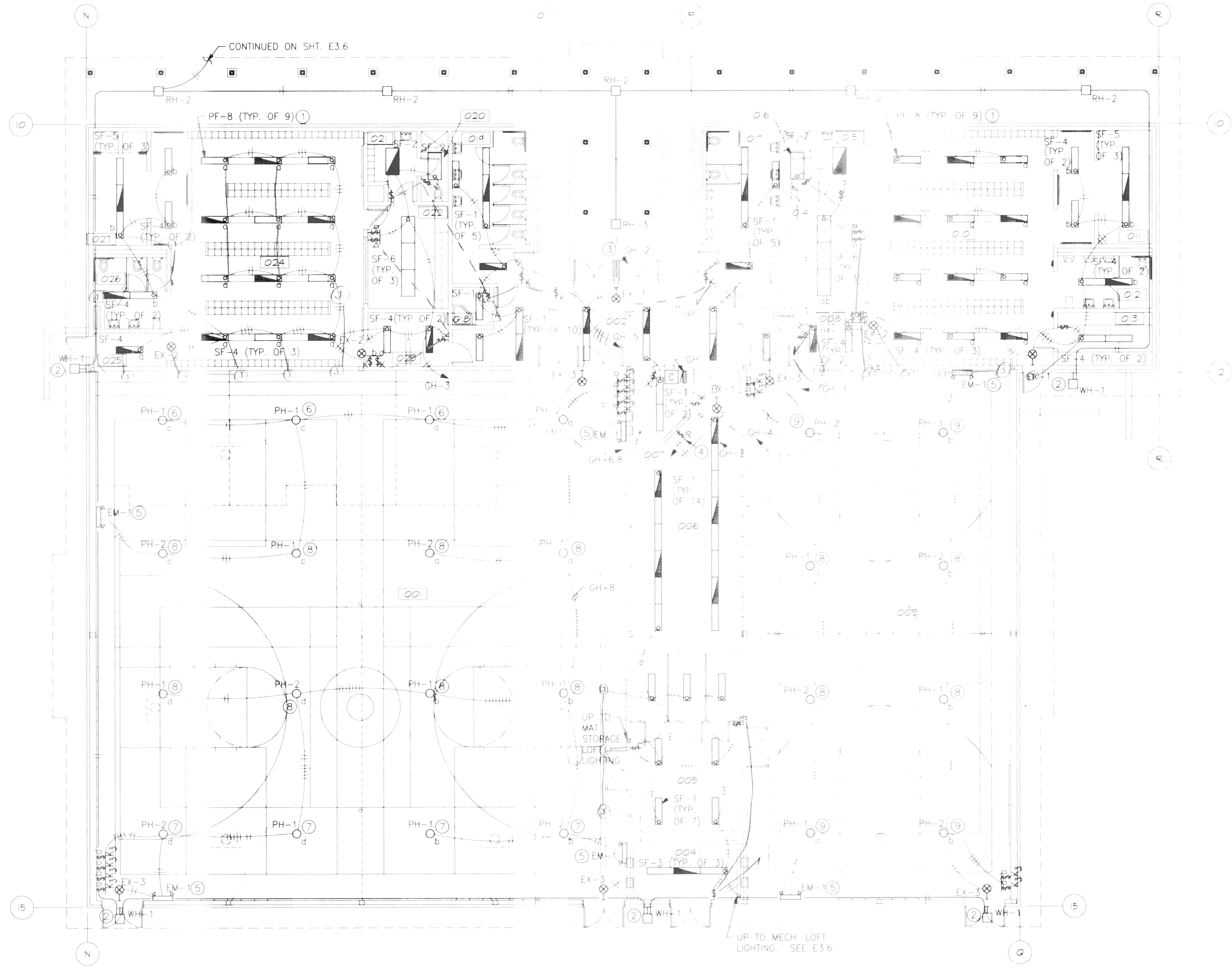


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SHT	E3.4
OF	

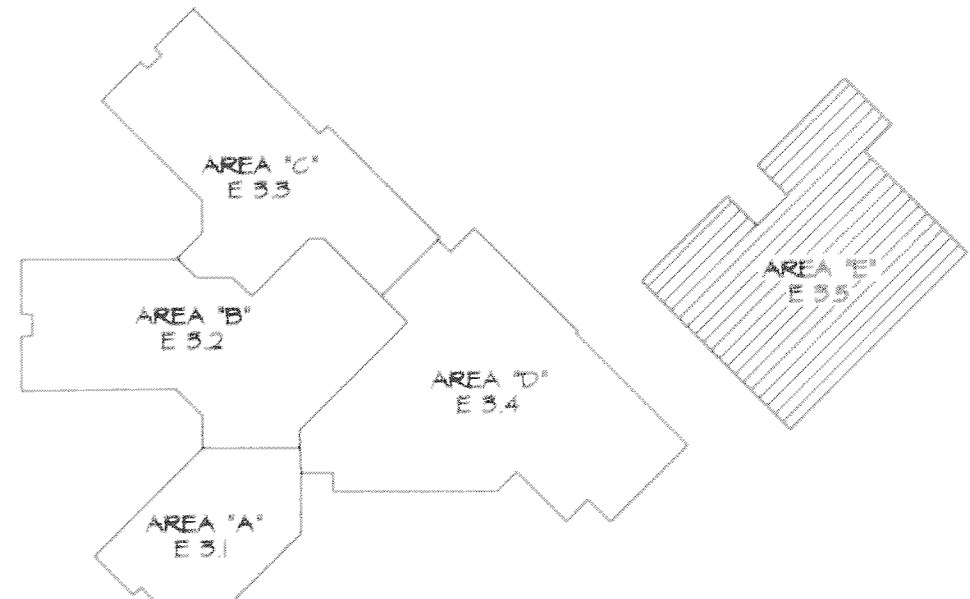


CONSTRUCTION NOTES

- ① INSTALL WITH TOP OF FIXTURE AT +10'-0" A.F.F.
- ② INSTALL WITH CENTERLINE OF FIXTURE AT +9'-6" A.F.F.
- ③ ROUTE THRU LIGHTING CONTROL CONTACTOR IN CUST. RM. #007.
- ④ SWITCH FOR MECH. LOFT LIGHTING. SEE E3.6 PROVIDE WITH PHENOLIC LABEL.
- ⑤ INSTALL WITH BOTTOM OF FIXTURE AT +12'-0" A.F.F.
- ⑥ INSTALL WITH BOTTOM OF FIXTURE AT +21'-0" A.F.F.
- ⑦ INSTALL WITH BOTTOM OF FIXTURE AT +22'-0" A.F.F.
- ⑧ INSTALL WITH BOTTOM OF FIXTURE AT +24'-0" A.F.F.
- ⑨ INSTALL WITH BOTTOM OF FIXTURE AT +23'-0" A.F.F.



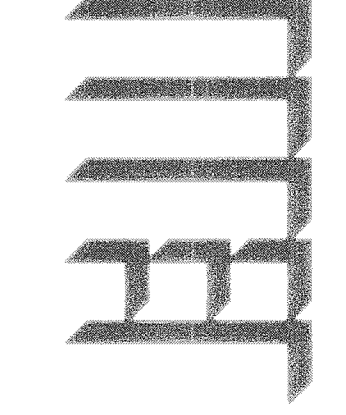
FLOOR PLAN - AREA 'E' - LIGHTING
SCALE: 1/8" = 1'-0"



KEY PLAN
NOT TO SCALE

FLOOR PLAN - AREA "E" - LIGHTING

WESTSIDE MIDDLE SCHOOL
OLYMPIA SCHOOL DISTRICT
ERICKSON MCGOVERN ARCHITECTS 120 SO. 131 ST., TACOMA WA. 98444 (206) 531-0206



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SHT	E3.5
OF	

SECTION NOTES

TOP OF FIXTURE 6" BELOW
OF ROOF STRUCTURE.
VARIABLE LOCATION WITH MECH.
EQUIPMENT AND DUCTWORK.

TOP OF FIXTURE AT +10'-0"
PLATFORM DECK. COORDINATE
LOCATION WITH MECH. EQUIPMENT
AND DUCTWORK.

WITH BOTTOM OF FIXTURE AT
ABOVE LOFT DECK.

BALLASTS FOR COMMONS
FIXTURES PH-3 & PH-4.
SEE SHT. E3.7.

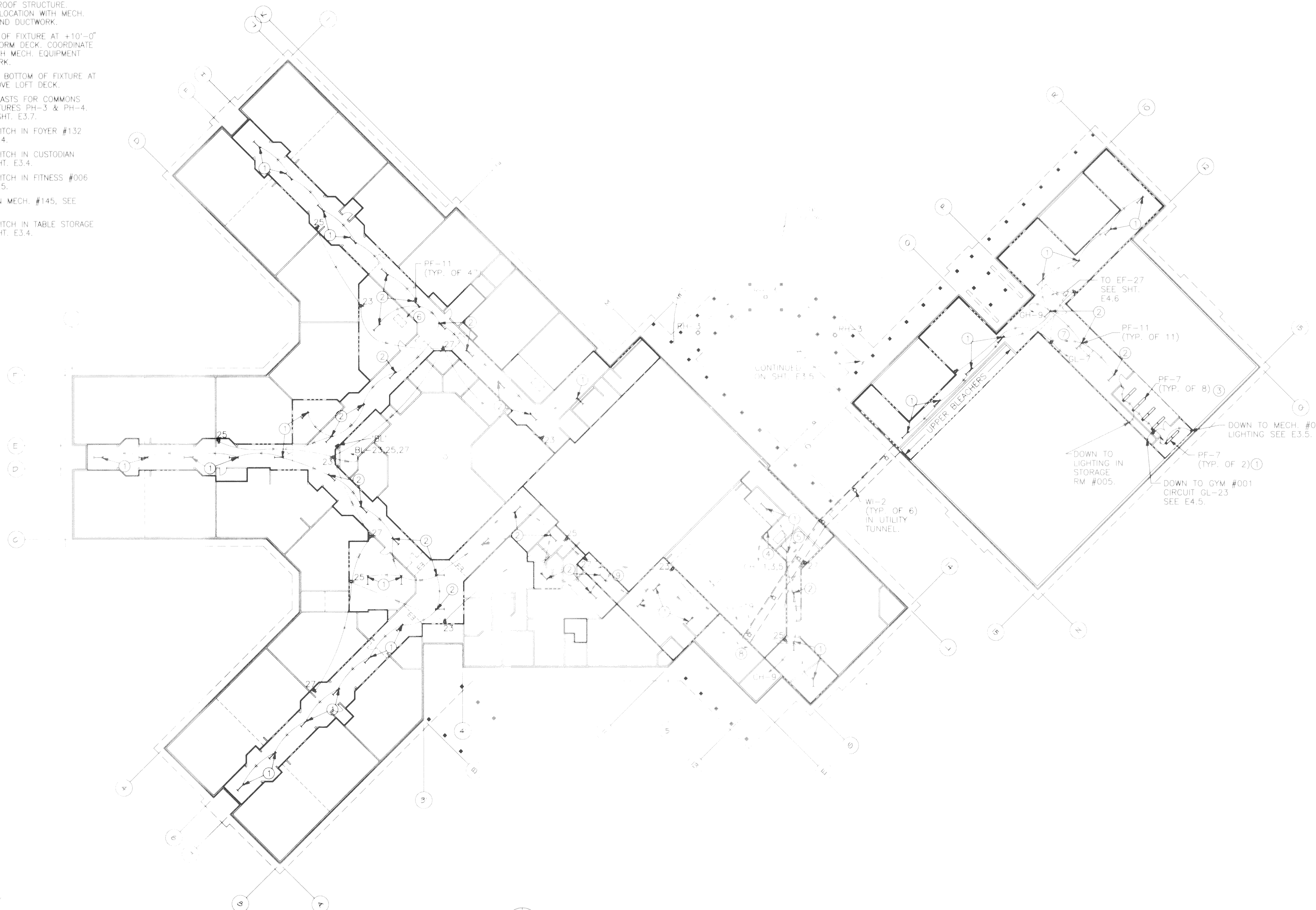
RO SWITCH IN FOYER #132
SEE SHT. E3.4.

RO SWITCH IN CUSTODIAN
RM #004 SEE SHT. E3.4.

RO SWITCH IN FITNESS #006
SEE SHT. E3.5.

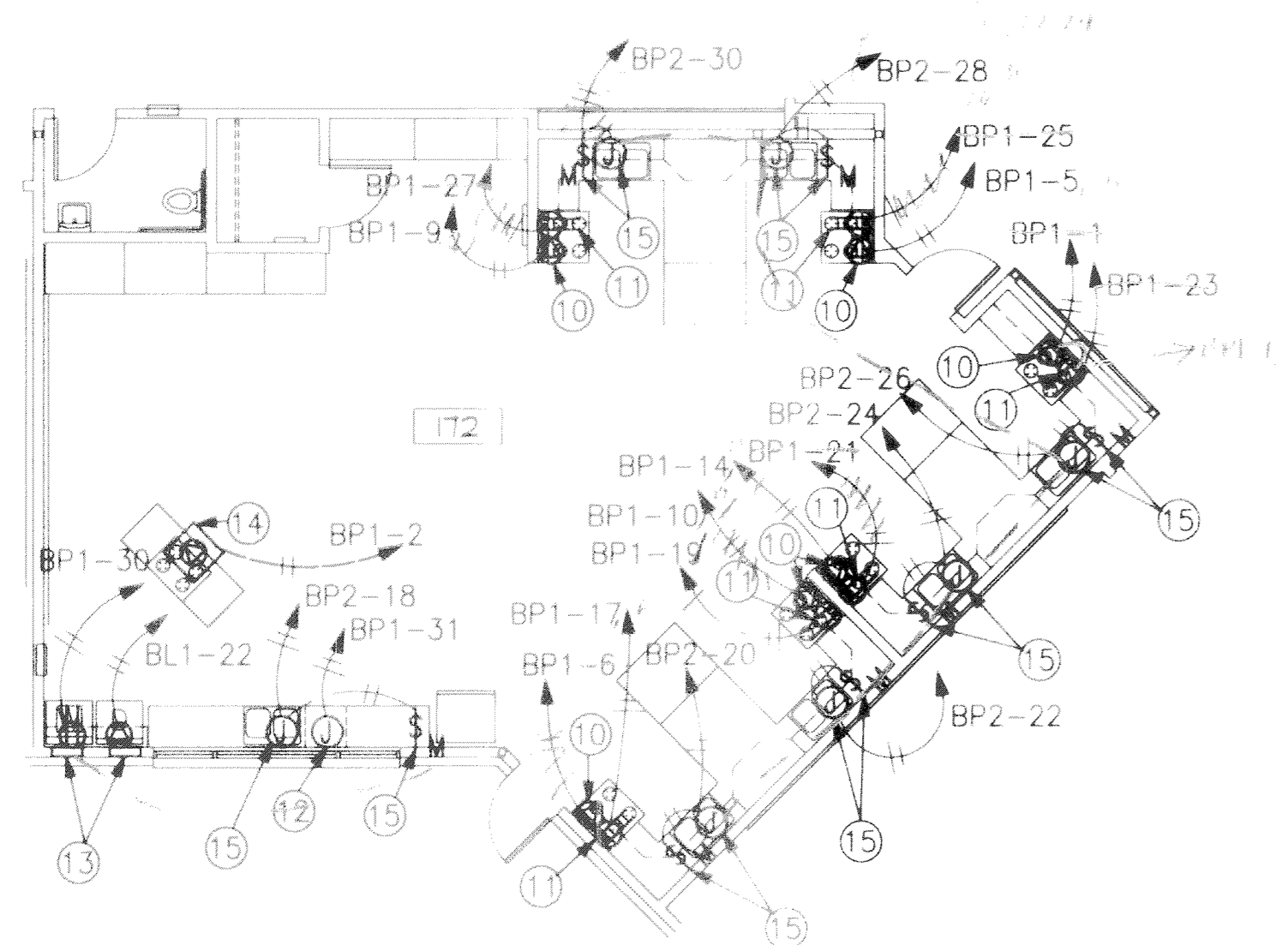
RO SWITCH IN MECH. #145, SEE
SHT. E3.4.

RO SWITCH IN TABLE STORAGE
RM #005 SEE SHT. E3.4.

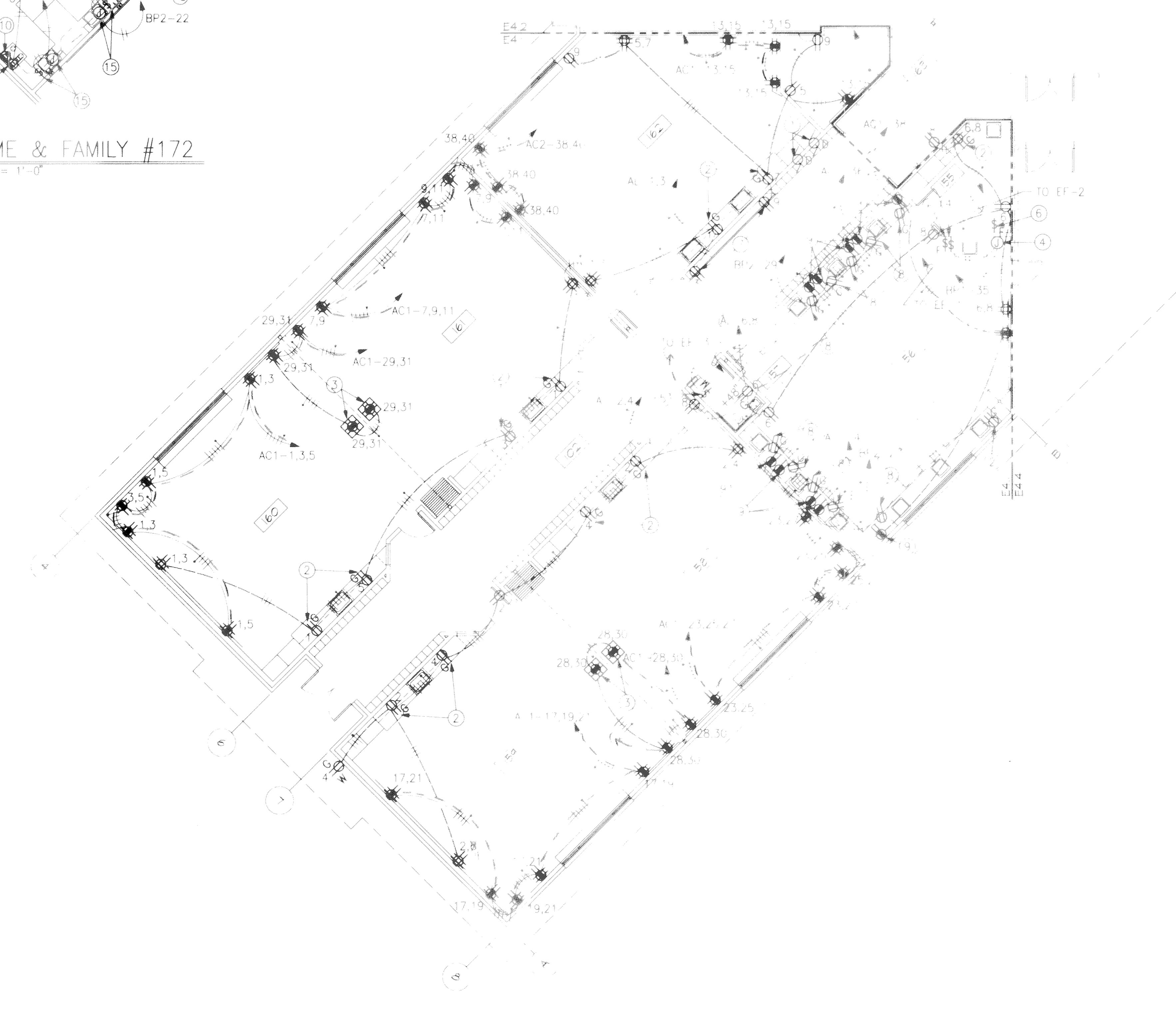


LOFT PLAN - LIGHTING
SCALE: 1" = 20'-0"

DATE: 10/15/04



PARTIAL PLAN - HOME & FAMILY #172
SCALE: 1/8" = 1'-0"



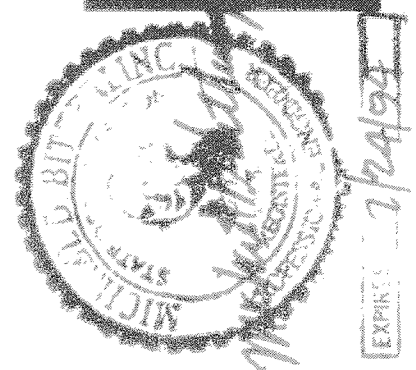
FLOOR PLAN - AREA 'A' - POWER
SCALE: 1/8" = 1'-0"

GENERAL NOTES

- 1) ALL MOTOR STARTERS SHALL BE PROVIDED BY E.C.

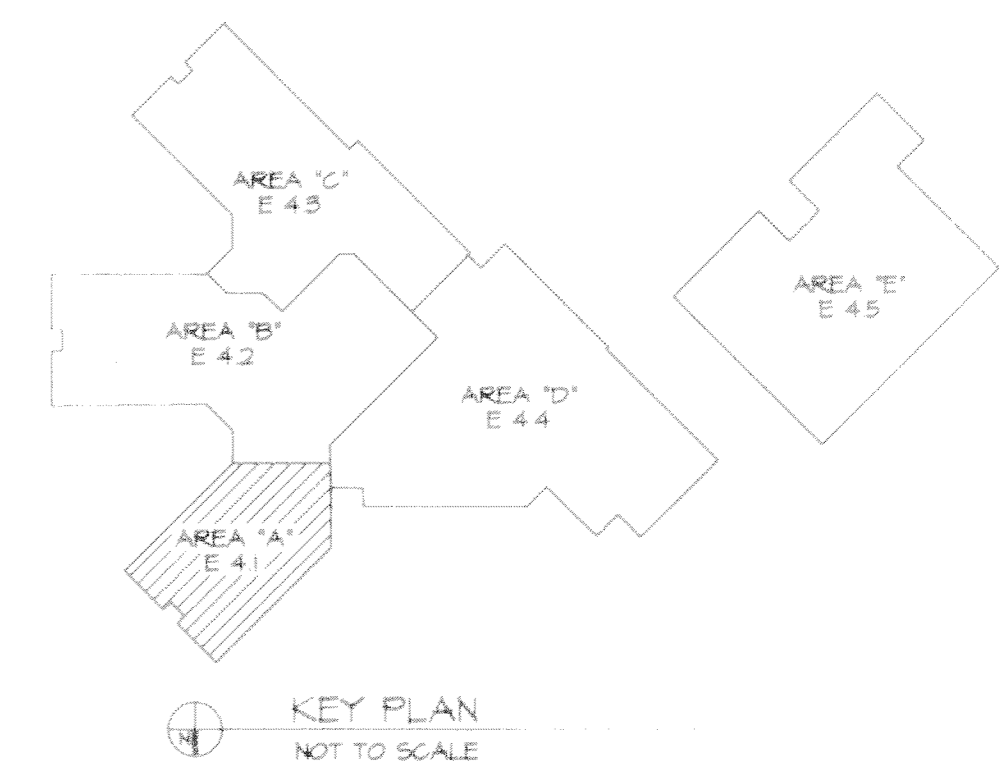
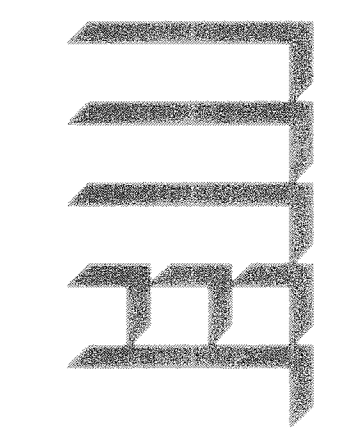
CONSTRUCTION NOTES

- 1) SEE FIRE/SMOKE DAMPER CONTROL DIAGRAM SHEET E4.11 (CONNECT TO CIRCUIT BL-4)
- 2) INSTALL WITH BOTTOM +2" ABOVE WORKSURFACE/BACKSPASH.
- 3) SEE SHT. E5.1 FOR LOCATION OF MULTI-SERVICE FLOOR BOXES.
- 4) FUME HOOD BLOWER & LIGHT, BY OTHERS. SWITCH & CONNECTIONS BY E.C.
- 5) SWITCH FOR EF-3 BY E.C. INSTALL WITH LIGHTING SWITCH IN 2-GANG BOX.
- 6) SWITCH FOR EF-1 & 2 BY M.C. INSTALLATION AND CONNECTION BY E.C.
- 7) IN DISPLAY CASE, COORDINATE LOCATION & HEIGHT WITH G.C. PRIOR TO ROUGH-IN.
- 8) HORIZONTAL IN FACE OF CASEWORK, COORDINATE LOCATION WITH G.C. PRIOR TO ROUGH-IN.
- 9) INSTALL IN CASEWORK WITH BOTTOM +2" ABOVE LOWER SHELF. COORDINATE LOCATION G.C. AND CASEWORK MANUFACTURER PRIOR TO ROUGH-IN.
- 10) RANGE/OVEN INSTALL SPECIAL RECEPTACLE @ +36" A.F.F.
- 11) RANGEHOOD/MICROWAVE, INSTALL RECEPTACLE IN CABINET BACK AT +72". COORDINATE LOCATION WITH G.C. PRIOR TO ROUGH-IN.
- 12) DISHWASHER
- 13) GUY GRAY FITTING & RECEPTACLE BY M.C. CONNECTION BY E.C.
- 14) RANGE RECEPTACLE IN FLOOR BOX
- 15) DISPOSAL, SWITCH & CONNECTIONS BY E.C.



FLOOR PLAN - AREA "A" - POWER

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DATE	5/7/93
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OF	

NOTES

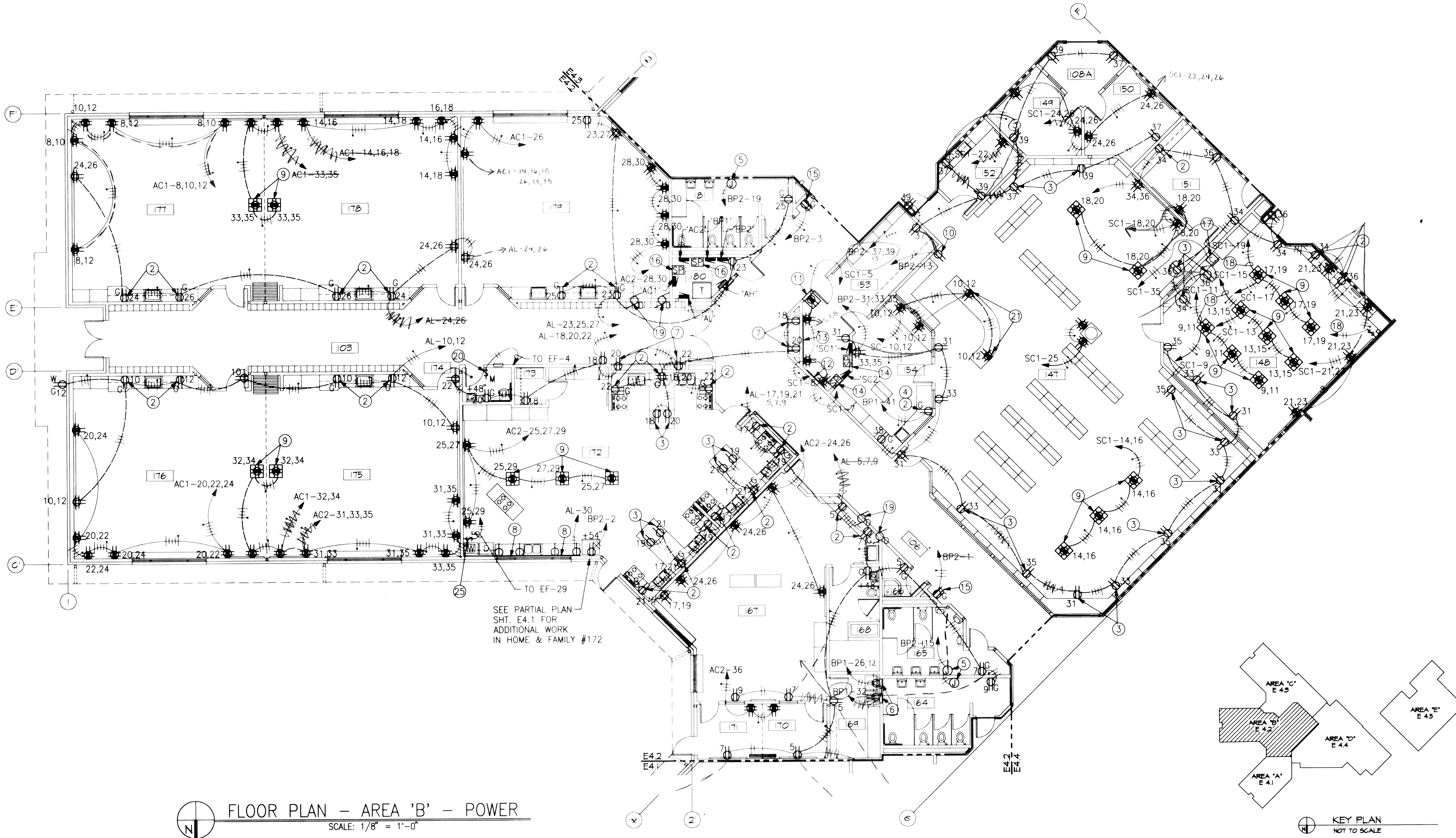
MOTOR STARTERS SHALL BE
BY E.C.

CONSTRUCTION NOTES

- ① SWITCH FOR EF-29 BY M.C., INSTALLATION AND CONNECTION BY E.C.
- ② INSTALL WITH BOTTOM AT +2" ABOVE WORKSPACE /BACKSPASH.
- ③ HORIZONTAL IN TOE SPACE
- ④ LAMINATOR
- ⑤ HANDDRYER
- ⑥ GUY GRAY FITTING & RECEPTACLES BY M.C. CONNECTION BY E.C.
- ⑦ IN DISPLAY CASE, COORDINATE LOCATION & HEIGHT WITH G.C. PRIOR TO ROUGH-IN.
- ⑧ PLUGMOLD WITH (10) SINGLE RECEPTACLES @ 12" O.C., (6) WEST OF SINK & (4) EAST OF SINK. INSTALL ON WALL BETWEEN COUNTER TOP & BOTTOM OF WINDOW SILL. CONNECT TO GFI CIRCUIT BREAKER.
- ⑨ SEE SHT. E5.2 FOR LOCATION OF MULTI-SERVICE FLOOR BOXES.

- ⑩ COPY MACHINE
- ⑪ TV HEADEND.
- ⑫ TELEPHONE TERMINAL BOARD.
- ⑬ COMPUTER DATA DISTRIBUTION BACKBOARD.
- ⑭ SURGE SUPPRESSOR (RECESSED) ADJACENT TO PANEL ("SC"). PANEL SHALL HAVE ISOLATED GROUND BARS.
- ⑮ WATERCOOLER, 1/5 H.P., 120V-1Ø. E.C. SHALL INSTALL RECEPTACLE AT HEIGHT REQUIRED BY MANUFACTURER.
- ⑯ SURGE SUPPRESSOR (SURFACE MOUNTED) ADJACENT TO PANEL ("AC1"/"AC2"). PANELS SHALL HAVE ISOLATED GROUND BARS.
- ⑰ RECESSED ENCLOSURE FOR COMPUTER CONTROL CONTACTORS. SEE DETAIL SHT. E4.12.
- ⑱ ROUTE THRU CONTROL CONTACTOR. SEE DETAIL SHT. E4.11.

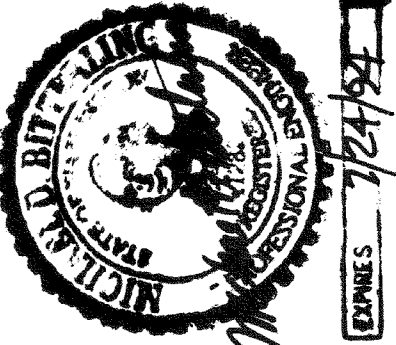
- ⑲ SEE FIRE/SMOKE DAMPER CONTROL DIAGRAM SHEET E4.11. (CONNECT TO CIRCUIT BL-4)
- ⑳ SWITCH FOR EF-4 BY E.C. INSTALL WITH LIGHTING SWITCH IN 2-GANG BOX.
- ㉑ INSTALL IN CASEWORK KNEESPACE AT +18" A.F.F. COORDINATE LOCATION WITH G.C. & CASEWORK MANUFACTURER PRIOR TO ROUGH-IN.



FLOOR PLAN - AREA 'B' - POWER

SCALE: 1/8" = 1'-0"

KEY PLAN
NOT TO SCALE



GENERAL NOTES

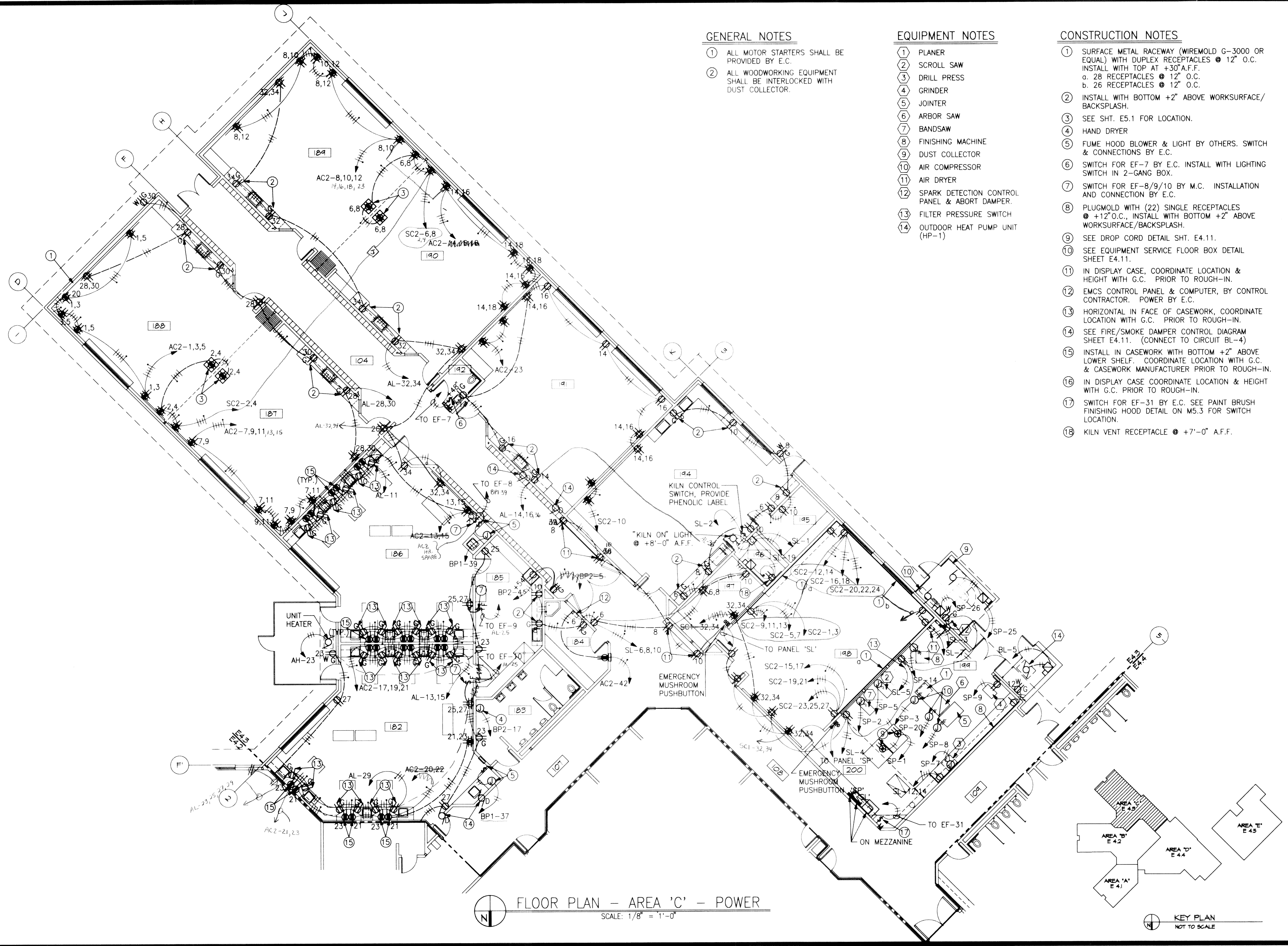
- ① ALL MOTOR STARTERS SHALL BE PROVIDED BY E.C.
- ② ALL WOODWORKING EQUIPMENT SHALL BE INTERLOCKED WITH DUST COLLECTOR.

EQUIPMENT NOTES

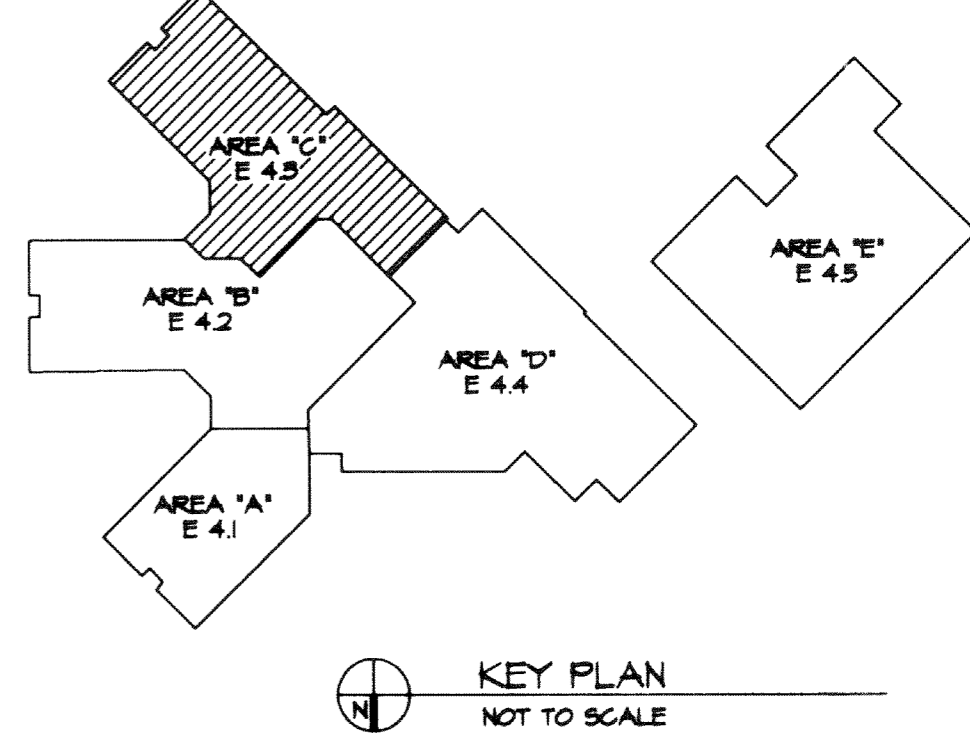
- ① PLANER
- ② SCROLL SAW
- ③ DRILL PRESS
- ④ GRINDER
- ⑤ JOINTER
- ⑥ ARBOR SAW
- ⑦ BANDSAW
- ⑧ FINISHING MACHINE
- ⑨ DUST COLLECTOR
- ⑩ AIR COMPRESSOR
- ⑪ AIR DRYER
- ⑫ SPARK DETECTION CONTROL PANEL & ABORT DAMPER.
- ⑬ FILTER PRESSURE SWITCH
- ⑭ OUTDOOR HEAT PUMP UNIT (HP-1)

CONSTRUCTION NOTES

- ① SURFACE METAL RACEWAY (WIREMOLD G-3000 OR EQUAL) WITH DUPLEX RECEPTACLES @ 12" O.C. INSTALL WITH TOP AT +30" A.F.F.
a. 28 RECEPTACLES @ 12" O.C.
b. 26 RECEPTACLES @ 12" O.C.
- ② INSTALL WITH BOTTOM +2" ABOVE WORKSURFACE/BACKSPLASH.
- ③ SEE SHT. E5.1 FOR LOCATION.
- ④ HAND DRYER
- ⑤ FUME HOOD BLOWER & LIGHT BY OTHERS. SWITCH & CONNECTIONS BY E.C.
- ⑥ SWITCH FOR EF-7 BY E.C. INSTALL WITH LIGHTING SWITCH IN 2-GANG BOX.
- ⑦ SWITCH FOR EF-8/9/10 BY M.C. INSTALLATION AND CONNECTION BY E.C.
- ⑧ PLUGMOLD WITH (22) SINGLE RECEPTACLES @ +12" O.C., INSTALL WITH BOTTOM +2" ABOVE WORKSURFACE/BACKSPLASH.
- ⑨ SEE DROP CORD DETAIL SHT. E4.11.
- ⑩ SEE EQUIPMENT SERVICE FLOOR BOX DETAIL SHEET E4.11.
- ⑪ IN DISPLAY CASE, COORDINATE LOCATION & HEIGHT WITH G.C. PRIOR TO ROUGH-IN.
- ⑫ EMCS CONTROL PANEL & COMPUTER, BY CONTROL CONTRACTOR. POWER BY E.C.
- ⑬ HORIZONTAL IN FACE OF CASEWORK, COORDINATE LOCATION WITH G.C. PRIOR TO ROUGH-IN.
- ⑭ SEE FIRE/SMOKE DAMPER CONTROL DIAGRAM SHEET E4.11. (CONNECT TO CIRCUIT BL-4)
- ⑮ INSTALL IN CASEWORK WITH BOTTOM +2" ABOVE LOWER SHELF. COORDINATE LOCATION WITH G.C. & CASEWORK MANUFACTURER PRIOR TO ROUGH-IN.
- ⑯ IN DISPLAY CASE COORDINATE LOCATION & HEIGHT WITH G.C. PRIOR TO ROUGH-IN.
- ⑰ SWITCH FOR EF-31 BY E.C. SEE PAINT BRUSH FINISHING HOOD DETAIL ON M5.3 FOR SWITCH LOCATION.
- ⑱ KILN VENT RECEPTACLE @ +7'-0" A.F.F.

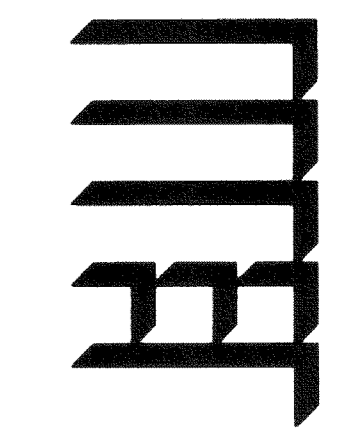


FLOOR PLAN - AREA 'C' - POWER
 SCALE: 1/8" = 1'-0"

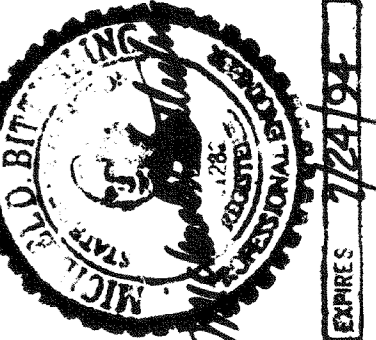


FLOOR PLAN - AREA "C" - POWER
 WESTSIDE MIDDLE SCHOOL
 OLYMPIA SCHOOL DISTRICT
 ERICKSON MCGOVERN ARCHITECTS 120 SO. 131 ST., TACOMA WA. 98444 (206) 531-0208

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 OLYMPIA SCHOOL DISTRICT
 ERICKSON MCGOVERN ARCHITECTS 120 SO. 131 ST., TACOMA WA. 98444 (206) 531-0208



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OF	



CONSTRUCTION NOTES

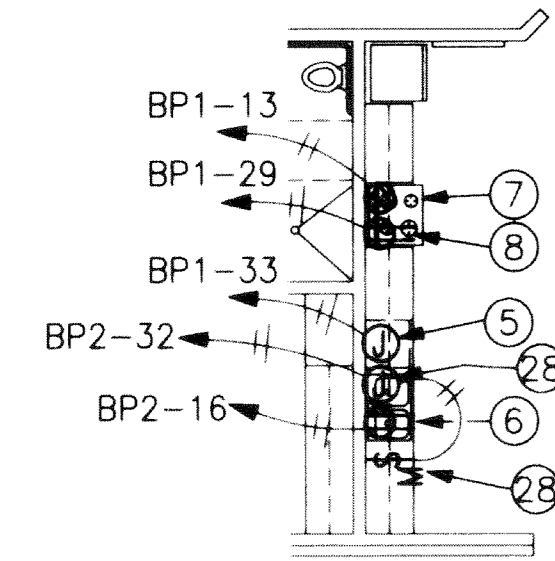
- ① INSTALL IN CASEWORK KNEE SPACE AT +18" A.F.F. COORDINATE LOCATION WITH G.C. AND CASEWORK MANUFACTURER PRIOR TO ROUGH-IN.
- ② INSTALL WITH BOTTOM +2" ABOVE WORKSURFACE/BACKSPASH.
- ③ INSTALL HORIZONTAL IN FACE OF RISER.
- ④ UNIVERSAL FULL STAGE PACKET.
- ⑤ DISHWASHER
- ⑥ UNDER CABINET FOR HOT WATER DISPENSER.
- ⑦ RANGE/OVEN, INSTALL SPECIAL RECEPTACLE AT +36" A.F.F.
- ⑧ RANGEHOOD/MICROWAVE, INSTALL RECEPTACLE IN CABINET AT +72". COORDINATE LOCATION WITH G.C. PRIOR TO ROUGH-IN.
- ⑨ WATER COOLER
- ⑩ MOTORIZED PROJECTION SCREEN BY G.C. SWITCH AND CONNECTIONS BY E.C.
- ⑪ MOTORIZED WALL BY G.C. SWITCH AND CONNECTIONS BY E.C.
- ⑫ HANDDRYER
- ⑬ UNDER COUNTER REFRIGERATOR
- ⑭ HORIZONTAL IN TOE SPACE.
- ⑮ SOUND SYSTEM
- ⑯ I.C./MASTER CLOCK CONSOLE
- ⑰ F.A. CONTROL PANEL
- ⑱ STACK WASHER/DRYER
- ⑲ COPY MACHINE
- ⑳ LAMINATOR
- ㉑ VERIFY LOCATION WITH ARCH./OWNER PRIOR TO ROUGH-IN.
- ㉒ COILING SHUTTER & SWITCH BY G.C., CONNECTIONS BY E.C.
- ㉓ REFRIGERATION UNIT BY KITCHEN EQUIPMENT CONTRACTOR, CONNECTIONS BY E.C.

GENERAL NOTES

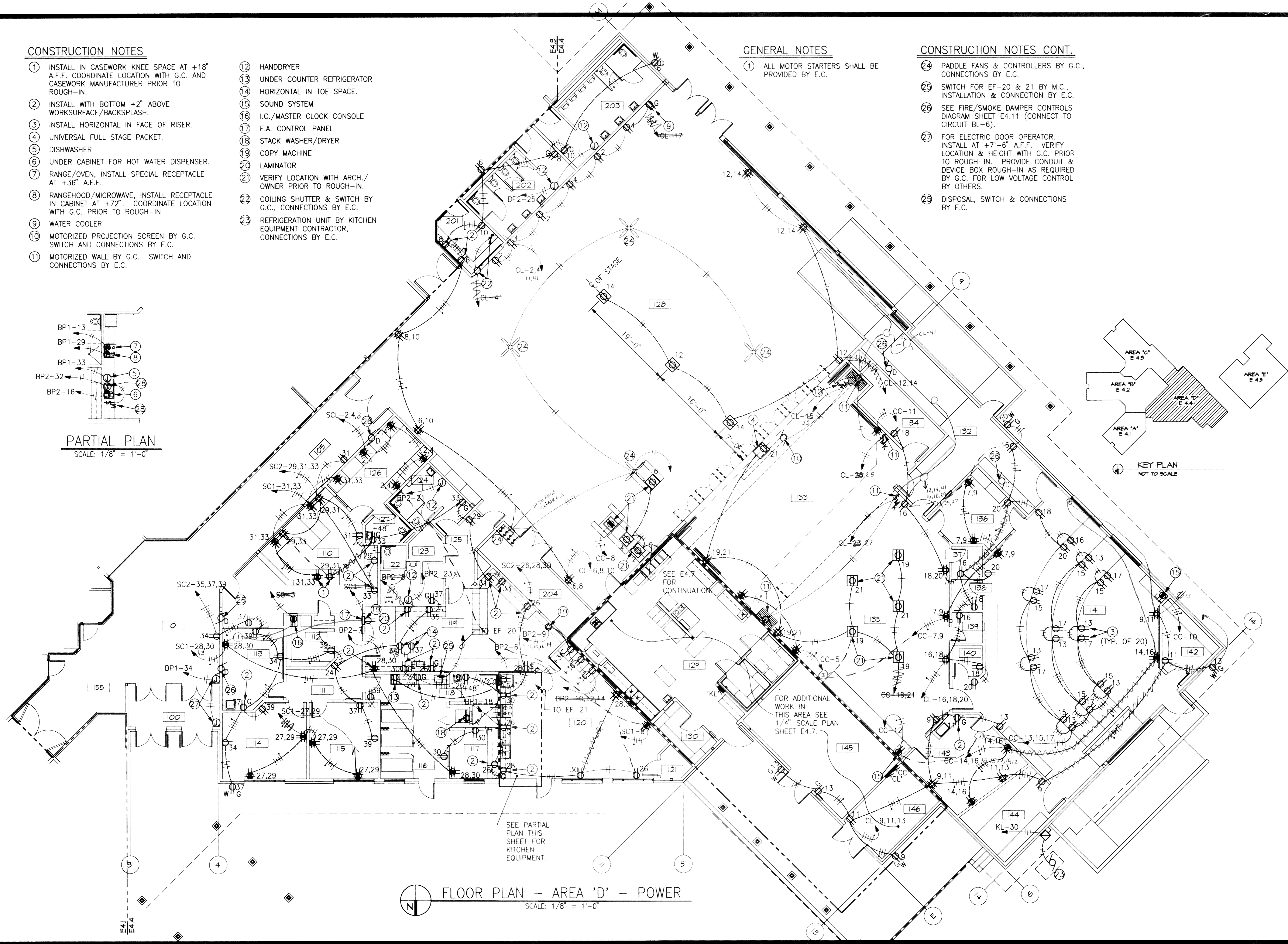
- ① ALL MOTOR STARTERS SHALL BE PROVIDED BY E.C.

CONSTRUCTION NOTES CONT.

- ㉔ PADDLE FANS & CONTROLLERS BY G.C., CONNECTIONS BY E.C.
- ㉕ SWITCH FOR EF-20 & 21 BY M.C., INSTALLATION & CONNECTION BY E.C.
- ㉖ SEE FIRE/SMOKE DAMPER CONTROLS DIAGRAM SHEET E4.11 (CONNECT TO CIRCUIT BL-6).
- ㉗ FOR ELECTRIC DOOR OPERATOR. INSTALL AT +7'-6" A.F.F. VERIFY LOCATION & HEIGHT WITH G.C. PRIOR TO ROUGH-IN. PROVIDE CONDUIT & DEVICE BOX ROUGH-IN AS REQUIRED BY G.C. FOR LOW VOLTAGE CONTROL BY OTHERS.
- ㉘ DISPOSAL, SWITCH & CONNECTIONS BY E.C.



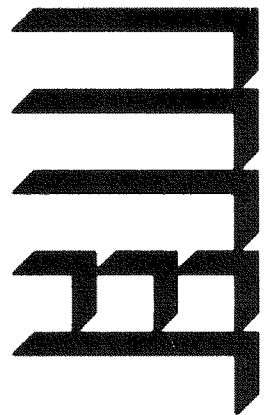
PARTIAL PLAN
SCALE: 1/8" = 1'-0"



FLOOR PLAN - AREA 'D' - POWER
SCALE: 1/8" = 1'-0"

FLOOR PLAN - AREA 'D' - POWER

WESTSIDE MIDDLE SCHOOL
OLYMPIA SCHOOL DISTRICT



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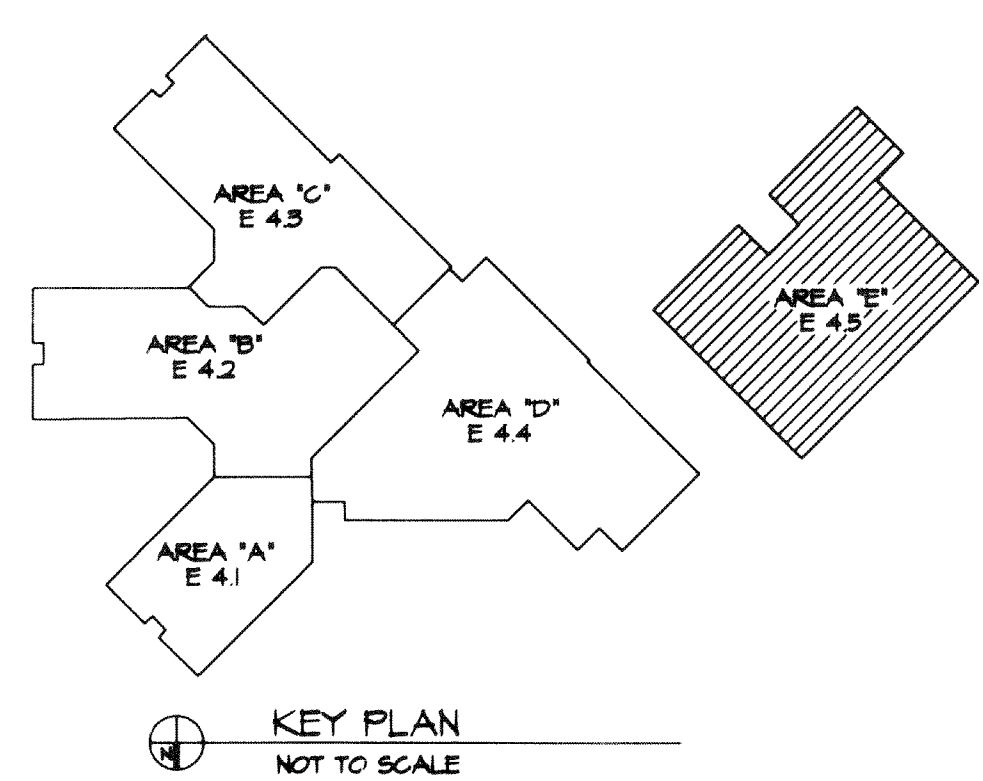
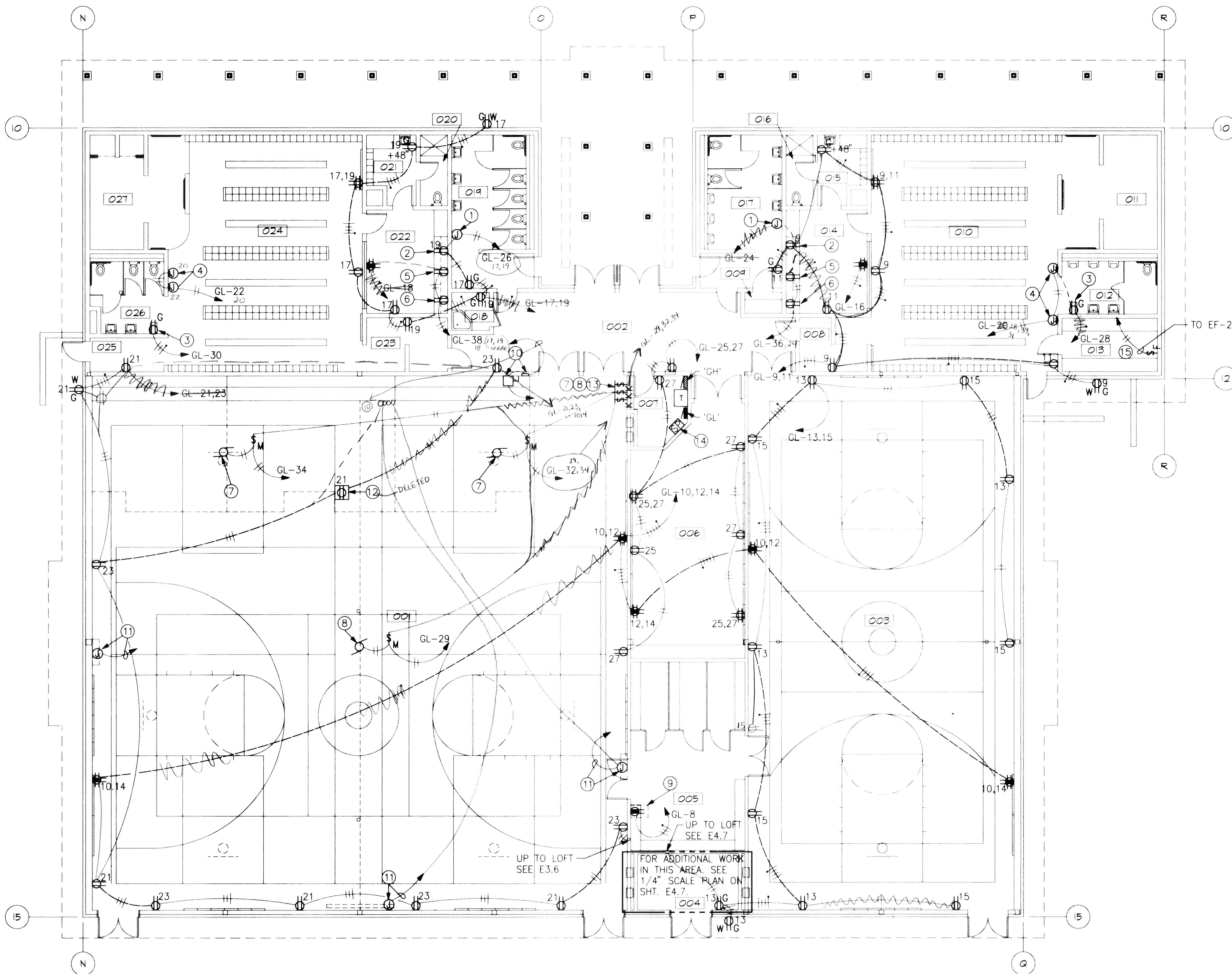
SHT **E4.4** OF

GENERAL NOTES

- ① ALL MOTOR STARTERS SHALL BE PROVIDED BY E.C.

CONSTRUCTION NOTES

- ① HANDDRYER
- ② INSTALL WITH BOTTOM +2" ABOVE WORK SURFACE/ BACKSPASH.
- ③ WATER COOLER
- ④ HAIR DRYER
- ⑤ UNDER COUNTER REFRIGERATOR
- ⑥ ICEMAKER
- ⑦ MOTORIZED BACKBOARD & SWITCH BY G.C. CONNECTIONS BY E.C. VERIFY LOCATIONS PRIOR TO ROUGH-IN.
- ⑧ MOTORIZED CURTAIN & SWITCH BY G.C. CONNECTIONS BY E.C. VERIFY LOCATIONS PRIOR TO ROUGH-IN.
- ⑨ SOUND SYSTEM RACK
- ⑩ 30AMP 208V-1Ø DISCONNECT SWITCH & 12"x12"x4" RECESSED J-BOX FOR BLEACHER MOTOR. PROVIDE 3/4"C. TO SECOND LEVEL BLEACHERS, VERIFY LOCATION WITH G.C. PRIOR TO ROUGH-IN
- ⑪ ROUGH-IN FOR FUTURE SCOREBOARD & SHOOT CLOCKS PROVIDE CONDUIT TO PANEL 'GL'. VERIFY LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- ⑫ FOR SCOREBOARD/TIMERS CONTROL PANEL. VERIFY LOCATION PRIOR TO ROUGH-IN.
- ⑬ PROVIDE PHENOLIC LABEL FOR EACH SWITCH INDICATING IT'S FUNCTION.
- ⑭ SURGE SUPPRESSOR (SURFACE MOUNTED), ADJACENT TO PANEL ('GL'). PANEL SHALL HAVE ISOLATED GROUND BAR.
- ⑮ SWITCH FOR EF-28 BY M.C. INSTALLATION AND CONNECTION BY E.C.



FLOOR PLAN - AREA 'E' - POWER
SCALE: 1/8" = 1'-0"

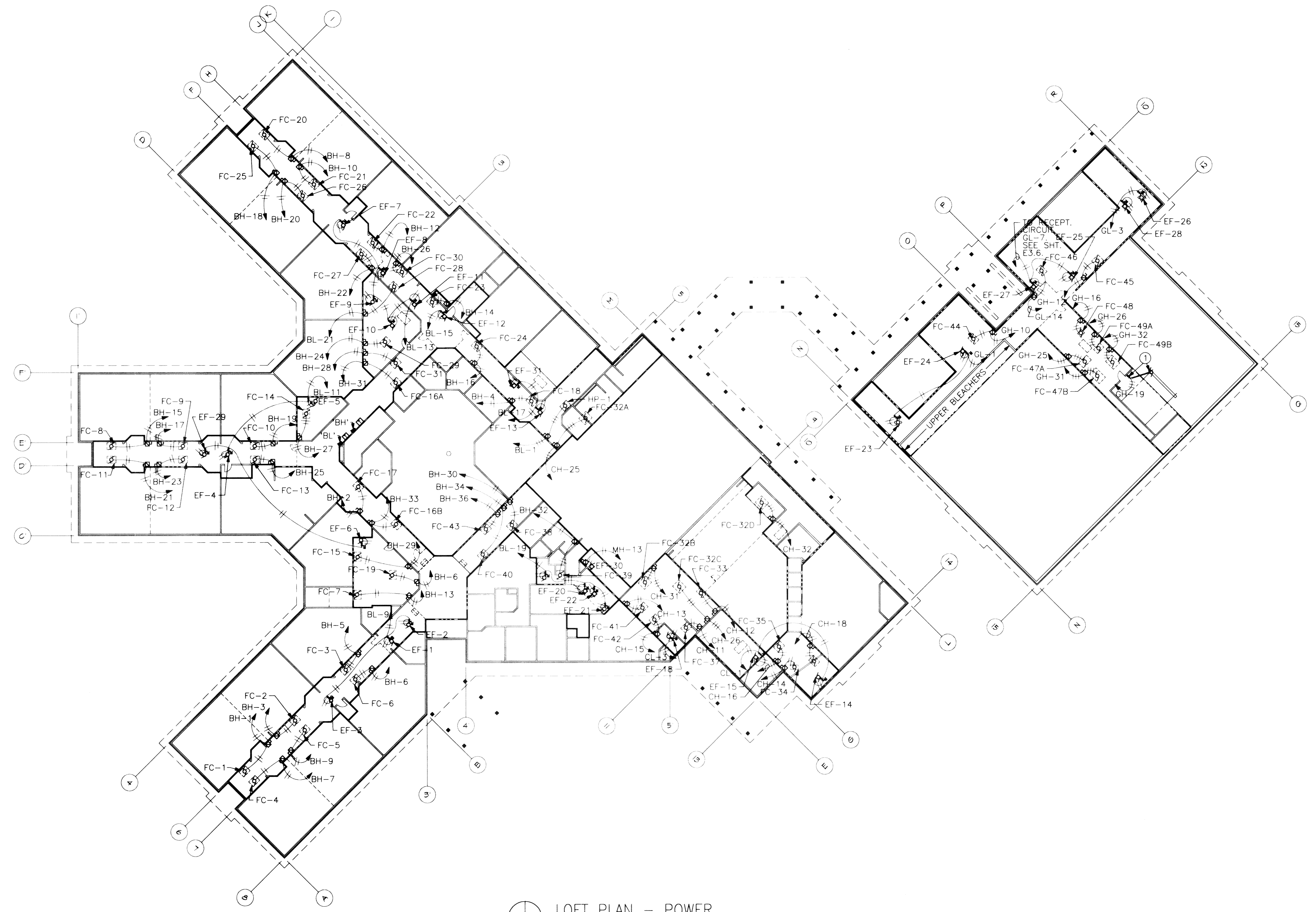


CONSTRUCTION NOTES

① MAT MOVER AND SWITCH BY G.C., CONNECTIONS BY E.C.

GENERAL NOTES

① ALL MOTOR STARTERS SHALL BE PROVIDED BY E.C.

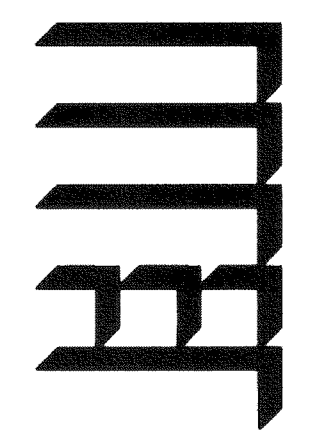


LOFT PLAN - POWER
SCALE: 1" = 20'-0"

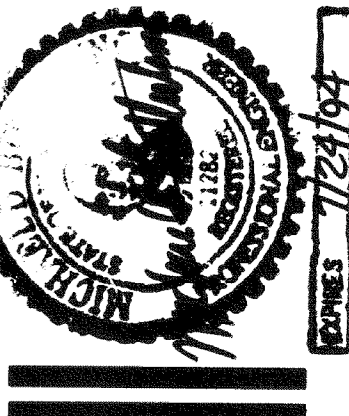
ALL CONDUIT SURFACE IN LOFT CLEARLY IDENTIFIED

WESTSIDE MIDDLE SCHOOL
OLYMPIA SCHOOL DISTRICT
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LOFT PLAN - POWER



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SHT	E4.6
OF	



KITCHEN EQUIPMENT

- ① DISPOSER, 2 H.P., 1/3 H.P., 208V-3ø.
- ② DISHWASHING MACHINE, 1/4 H.P., 2 H.P., 15KW, 208V-3ø.
- ③ RINSE BOOSTER, 45KW, 208V-3ø.
- ④ UTILITY DISTRIBUTION SYSTEM (BY KITCHEN CONTRACTOR)
 - A GRIDDLE, 24KW, 208V-3ø.
 - B FRYER (2), 14KW, 208V-3ø.
 - C FRY DUMP STATION/FILTER, 8 AMPS, 120V-1ø.
 - D CONVENTION OVENS, 30.3KW, 208V-3ø.
 - E HOT PLATE, 5.2KW, 208V-1ø.
 - F HOT CABINET, 1.2KW, 120V-1ø.
- ⑤ SERVING UNIT, 2.0 KW, 208V-1ø.
- ⑥ SERVING UNIT, 6.0 KW, 208V-1ø.
- ⑦ FIRE SUPPRESSION CONTROL CABINET
- ⑧ WALK-IN COOLER.
- ⑨ WALK-IN FREEZER.

MECHANICAL EQUIPMENT

- △ FIRE PUMP CONTROLLER
- △ JOCKEY PUMP CONTROLLER
- △ FIRE PUMP, 15 H.P., 460V-3ø.
- △ JOCKEY PUMP, 1 H.P., 460V-3ø.
- △ HWT-2, 1/3 H.P., 120V-1ø (ON LOFT).
- △ DRY FIRE SPRINKLER SYSTEM COMPRESSOR, 3 H.P., 460V-3ø.
- △ SKID MOUNTED HEATING PUMPING SYSTEM, 73.3 AMPS, 460V-3ø.
- △ HWT-1, 3/4 H.P., 120V-1ø.
- △ DOMESTIC WATER BOOSTER SYSTEM, 7 1/2 H.P., 15 H.P., 460V-3ø.

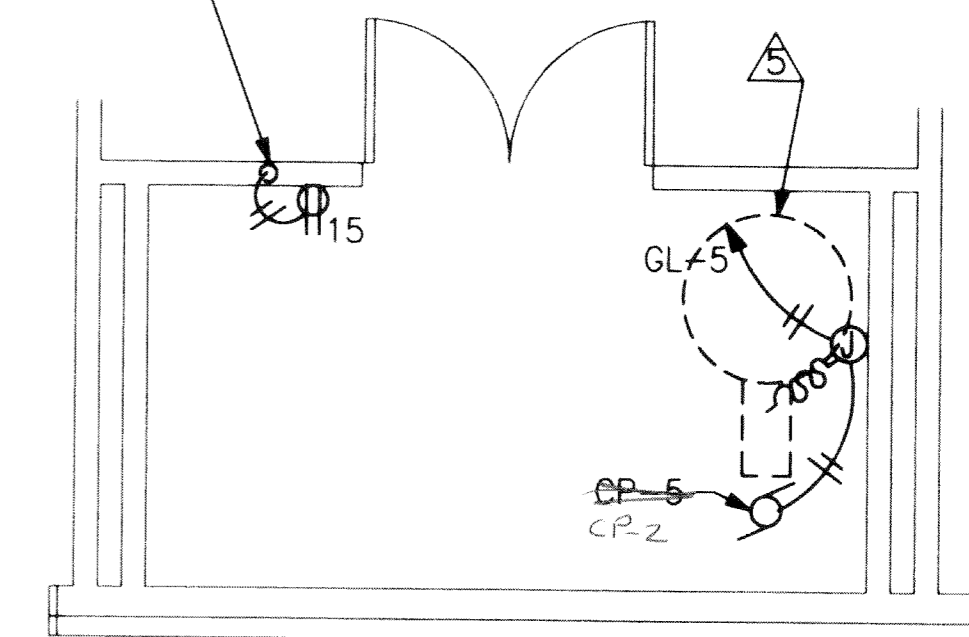
CONSTRUCTION NOTES

- ① HOOD LIGHTING & EXHAUST FAN SWITCHES BY KITCHEN EQUIPMENT SUPPLIER CONNECTIONS BY E.C.
- ② FOR HOOD LIGHTING, VERIFY LOCATION PRIOR TO ROUGH-IN.
- ③ INSTALL WITH BOTTOM +2" ABOVE WORKSURFACE/BACKSPASH.
- ④ 3/4"C. TO PANEL 'KL' FOR SHUNT TRIP CIRCUIT BREAKERS.
- ⑤ LIGHTING FIXTURE, SWITCH & BLOWER BY KITCHEN EQUIPMENT SUPPLIER, INSTALLATION AND CONNECTIONS BY E.C.
- ⑥ SWITCH AND RECEPTACLE BY E.C., INSTALL BELOW COIL.
- ⑦ TO REFRIGERATION UNIT SEE SHEET E4.4. VERIFY REQUIREMENTS PRIOR TO ROUGH-IN.
- ⑧ RECEPTACLES BY KITCHEN EQUIPMENT SUPPLIER CONNECTIONS BY E.C.
- ⑨ TO FIRE PUMP CONTROLLER.
- ⑩ TO JOCKEY PUMP CONTROLLER.
- ⑪ CONTROL PANEL
- ⑫ SURGE SUPPRESSOR (SURFACE MOUNTED) ADJACENT TO PANEL ('CC'). PANEL SHALL HAVE ISOLATED GROUND BAR.

GENERAL NOTES

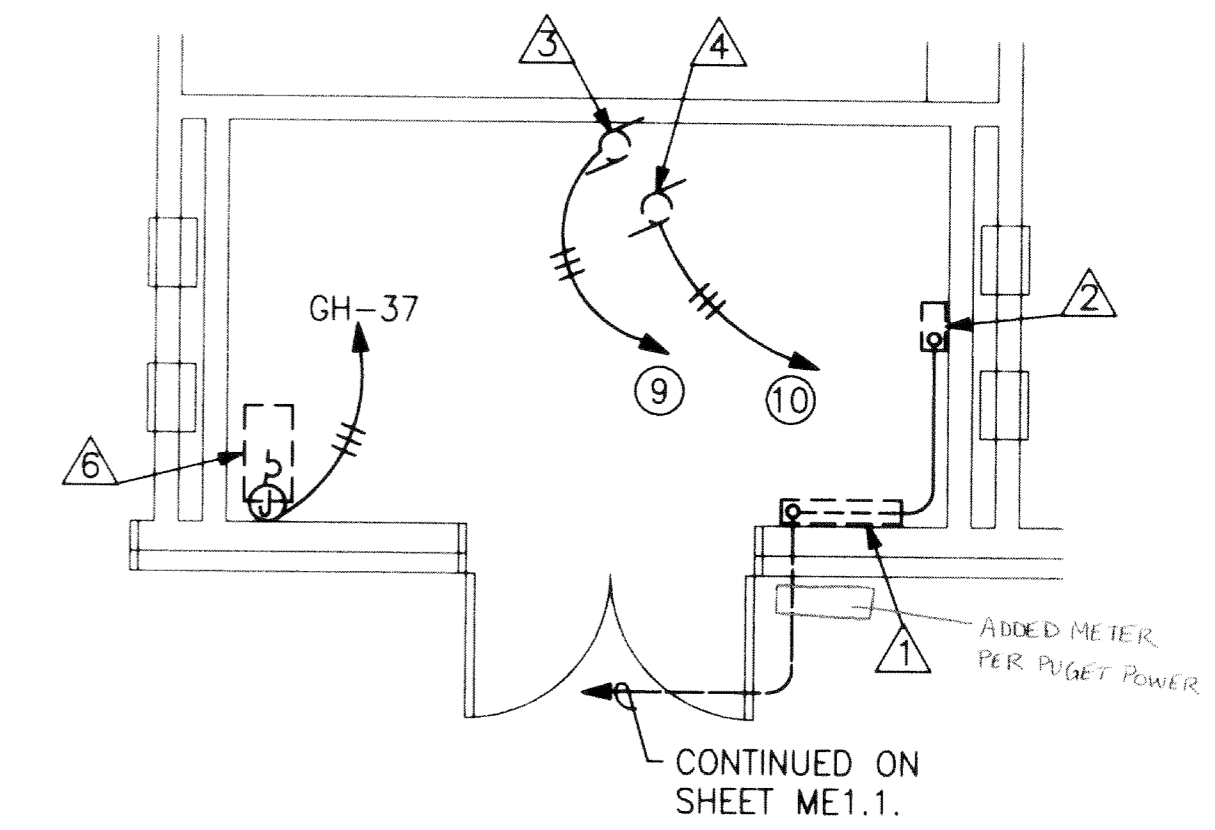
- ① ALL MOTOR STARTERS SHALL BE PROVIDED BY E.C.

CIRCUIT GL-15 DOWN TO MECH. RM. #004 SEE E4.5.



LOFT MECHANICAL ROOM ABOVE MECH. ROOM #004

DIAGRAMMATIC

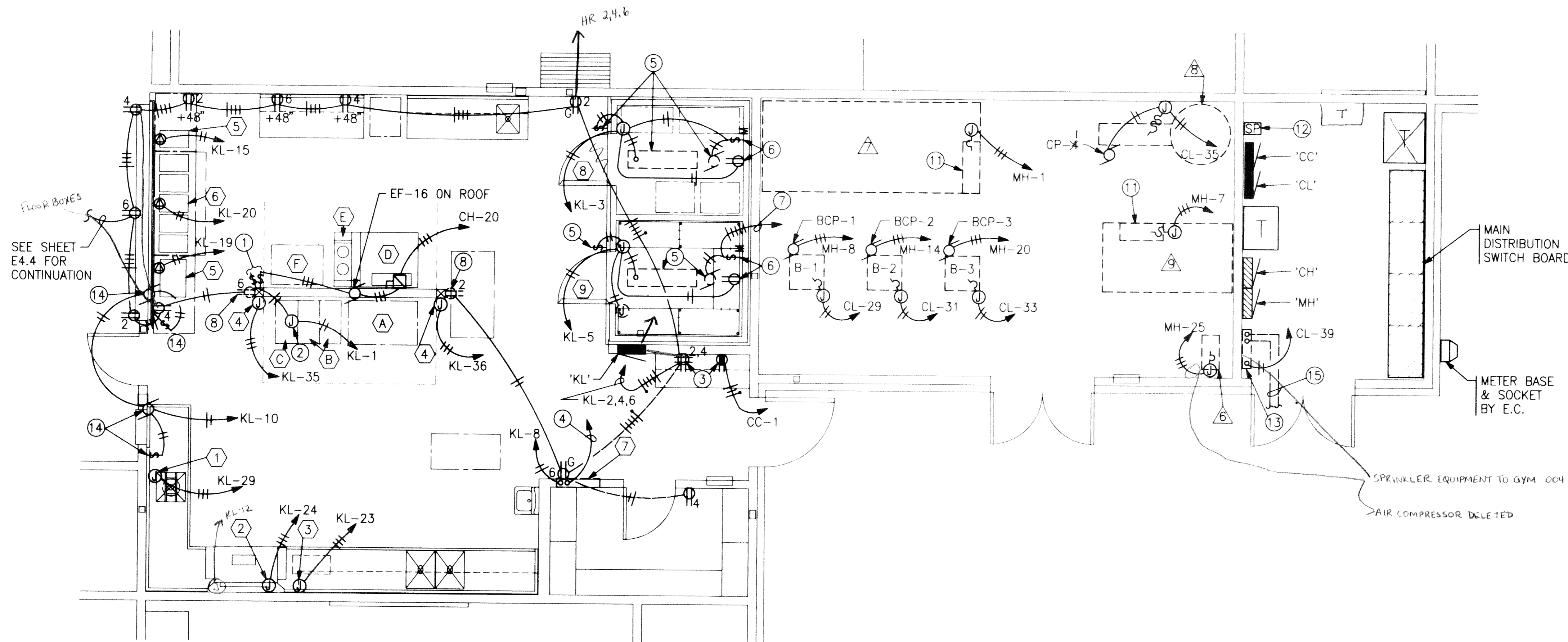


NOTE: SEE ELECTRICAL DISTRIBUTION DIAGRAM SHEET E 4.10, FOR COMPLETE FIRE PUMP SERVICE.



MECHANICAL ROOM #004

DIAGRAMMATIC

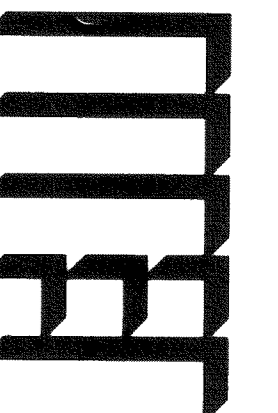


KITCHEN/MECHANICAL/ELECTRICAL ROOMS

SCALE: 1/4" = 1'-0"

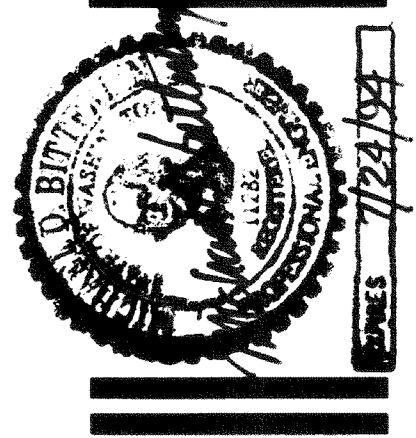
1/4" SCALE PLANS - KITCHEN / MECH. RM.

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DATE 5/7/93

SHT
E4.7
OF



3 PHASE 4 WIRE 120/208 VOLTS 225 AMPS MAIN LUGS											
RECESSED MOUNT			42 POLES			TOP FEED			10,000 AIC MIN.		
LOAD	CIRCUIT DIRECTORY	CKT NO.	BRKR	A	B	C	BRKR	NO.	CIRCUIT DIRECTORY	LOAD	
1600	COMPUTERS	1	1P-20A	•	•	•	1P-20A	2	COMPUTERS	1600	
1600	COMPUTERS	3	1P-20A	•	•	•	1P-20A	4	COMPUTERS	1600	
1600	COMPUTERS	5	1P-20A	•	•	•	1P-20A	6	COMPUTERS	1600	
1600	COMPUTERS	7	1P-20A	•	•	•	1P-20A	8	COMPUTERS	1600	
1600	COMPUTERS	9	1P-20A	•	•	•	1P-20A	10	COMPUTERS	1600	
1600	COMPUTERS	11	1P-20A	•	•	•	1P-20A	12	COMPUTERS	1600	
1600	COMPUTERS	13	1P-20A	•	•	•	1P-20A	14	COMPUTERS	1600	
1600	COMPUTERS	15	1P-20A	•	•	•	1P-20A	16	COMPUTERS	1600	
1600	COMPUTERS	17	1P-20A	•	•	•	1P-20A	18	COMPUTERS	1600	
1600	COMPUTERS	19	1P-20A	•	•	•	1P-20A	20	COMPUTERS	1600	
1600	COMPUTERS	21	1P-20A	•	•	•	1P-20A	22	COMPUTERS	1600	
1600	COMPUTERS	23	1P-20A	•	•	•	1P-20A	24	COMPUTERS	800	
1600	COMPUTERS	25	1P-20A	•	•	•	1P-20A	26	RECEPTACLES	1080	
1600	COMPUTERS	27	1P-20A	•	•	•	1P-20A	28	RECEPTACLES	900	
900	RECEPTACLES	29	1P-20A	•	•	•	1P-20A	30	RECEPTACLES	900	
900	RECEPTACLES	31	1P-20A	•	•	•	1P-20A	32	SPARE RECEPT PLUG MOLD		
900	RECEPTACLES	33	1P-20A	•	•	•	1P-20A	34	SPARE RECEPT PLUG MOLD		
1080	RECEPTACLES	35	1P-20A	•	•	•	1P-20A	36	SPARE		
1080	RECEPTACLES	37	1P-20A	•	•	•	1P-20A	38	SURGE SUPPRESSOR		
900	RECEPTACLES	39	1P-20A	•	•	•	1P-20A	40	SURGE SUPPRESSOR		
	SPARE	41	1P-20A	•	•	•	1P-20A	42	SURGE SUPPRESSOR		
28,160	TOTAL VA 49,440				CURRENT			137 AMPS			
	DEMAND VA 49,440				DEMAND CURRENT			137 AMPS			

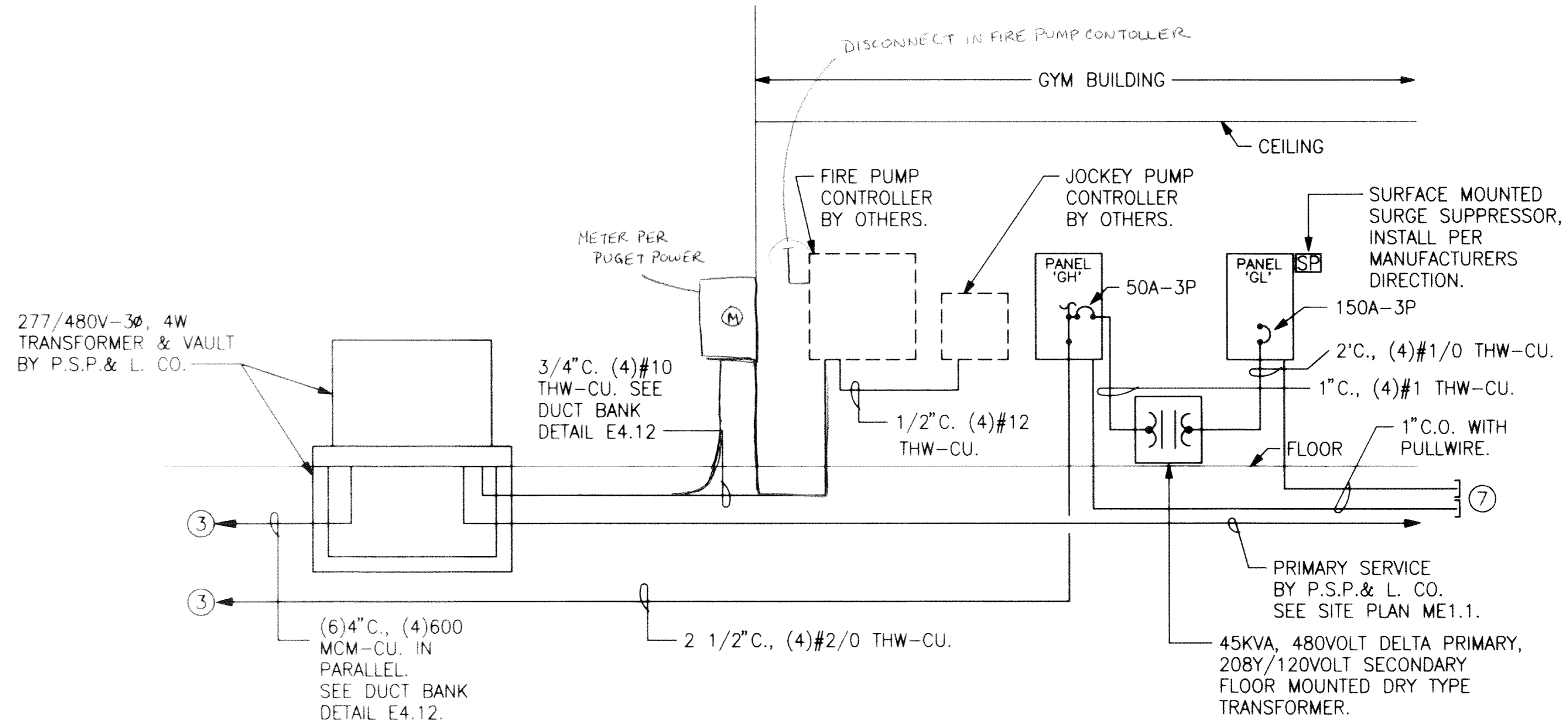
SHORT CIRCUIT CURRENT CALCULATION	
MAXIMUM 3 PHASE SYMMETRICAL AVAILABLE FAULT CURRENT IN AMPERES	
AT TRANSFORMER SECONDARY (BY P.S.P.&L. CO.)	34,094 AMPERES
AT MAIN DISTRIBUTION SWITCHBOARD	31,366 AMPERES
AT NEAREST PANEL ('MH')	26,034 AMPERES

CONSTRUCTION NOTES

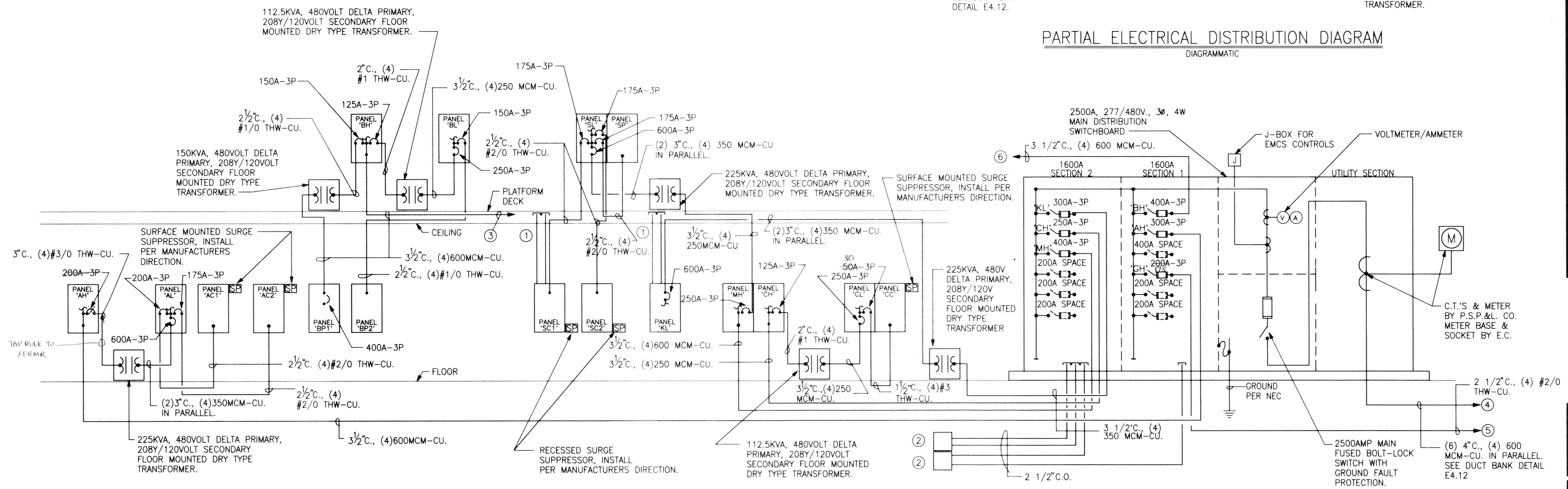
- STUB-OUT (2)3/4"C. IN ACCESSIBLE CEILING.
- STUB-OUT CONDUITS WITH PULLWIRE ONTO VAULT AT LOCATION OF FUTURE PORTABLES. SEE SITE PLAN ME1.1.
- TO MAIN DISTRIBUTION SWITCH BOARD.
- TO PAD MOUNT TRANSFORMER.
- TO PANEL 'GH' IN GYM BUILDING ROUTE THRU UTILITY TUNNEL. SEE SITE PLAN ME1.1.
- TO PANEL 'BH' IN LOFT AREA.
- STUB-OUT FOR FUTURE USE. SEE SITE PLAN ME1.1.

GENERAL NOTES

- ALL FEEDER SIZES ARE BASED ON COPPER.
- ALL BRANCH PANELS AND DRY TRANSFORMERS SHALL BE GROUNDED PER NEC.
- ALL BRANCH PANELS WITH SURGE SUPPRESSORS SHALL HAVE ISOLATED GROUND BARS.



PARTIAL ELECTRICAL DISTRIBUTION DIAGRAM
DIAGRAMMATIC



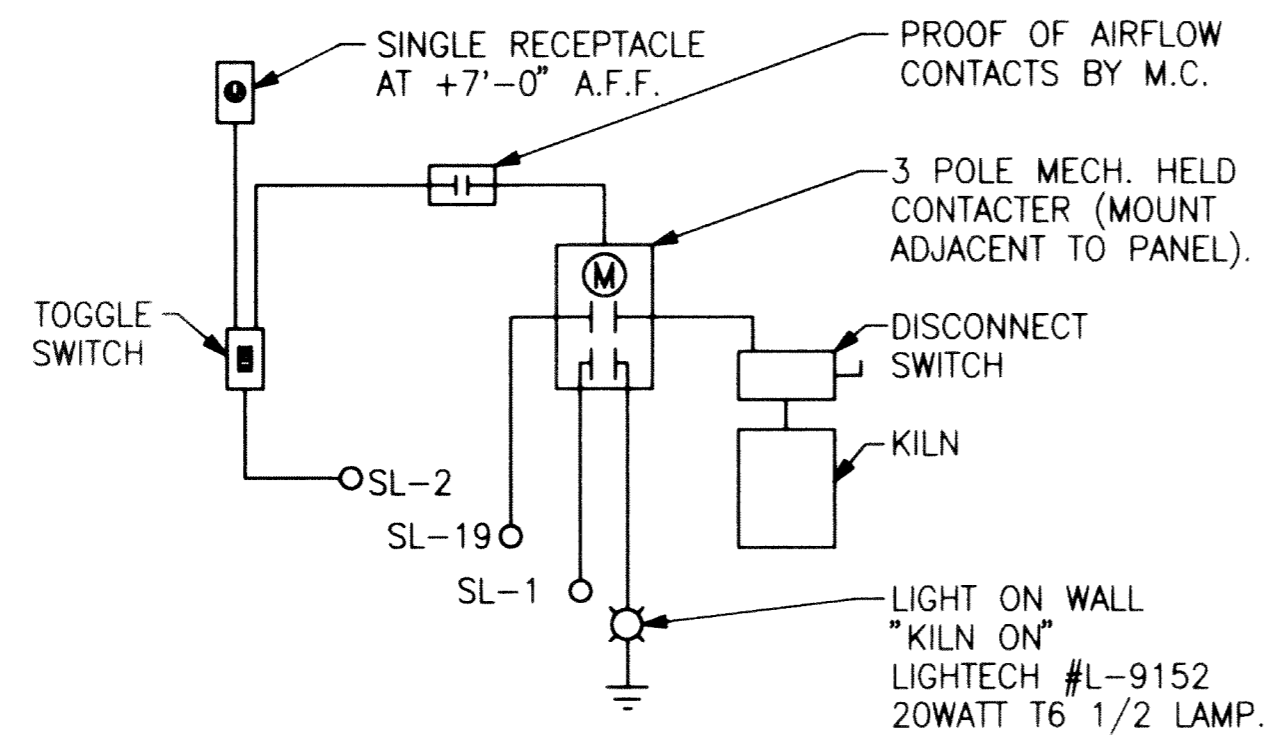
PARTIAL ELECTRICAL DISTRIBUTION DIAGRAM
DIAGRAMMATIC

ELECTRICAL DISTRIBUTION DIAGRAM
PANEL SCHEDULE & CALCULATIONS

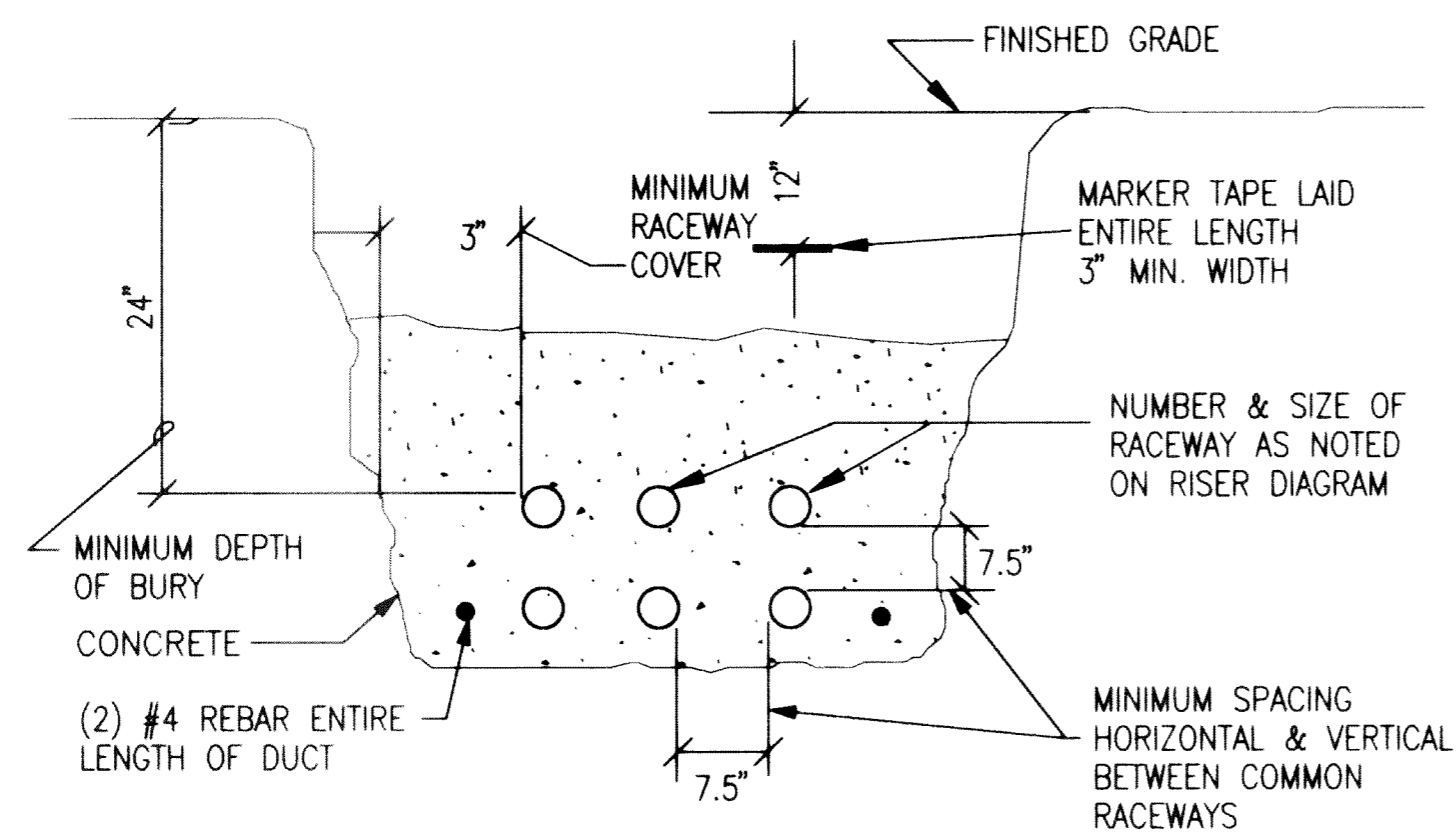
WESTSIDE MIDDLE SCHOOL
OLYMPIA SCHOOL DISTRICT

ERICKSON MCGOVERN ARCHITECTS
120 SO. 131 ST., TACOMA WA. 98444 (206) 531-0208

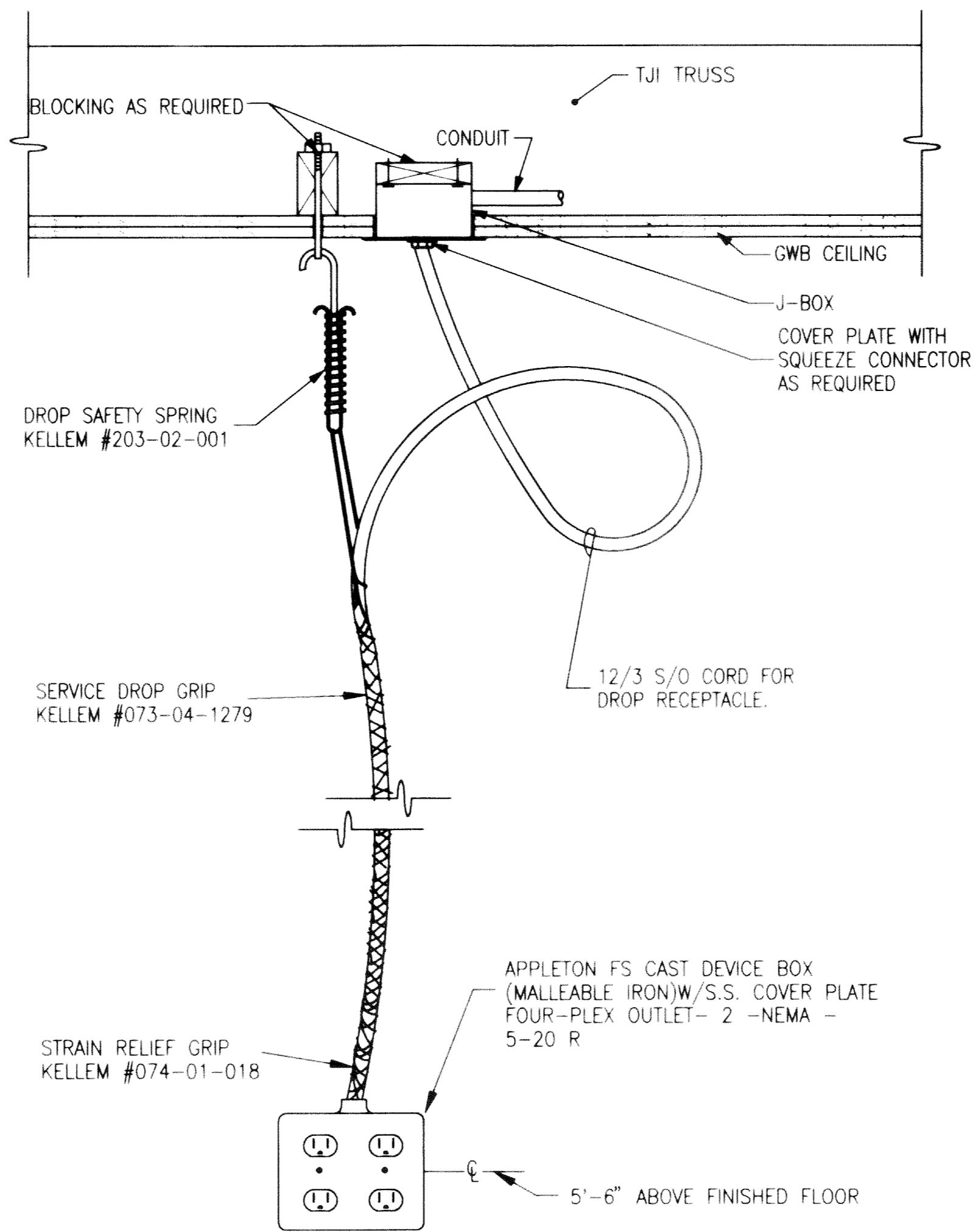
COMM. REV.
DRAWN DMM
DATE 5/7/93
SHT
E4.10
OF



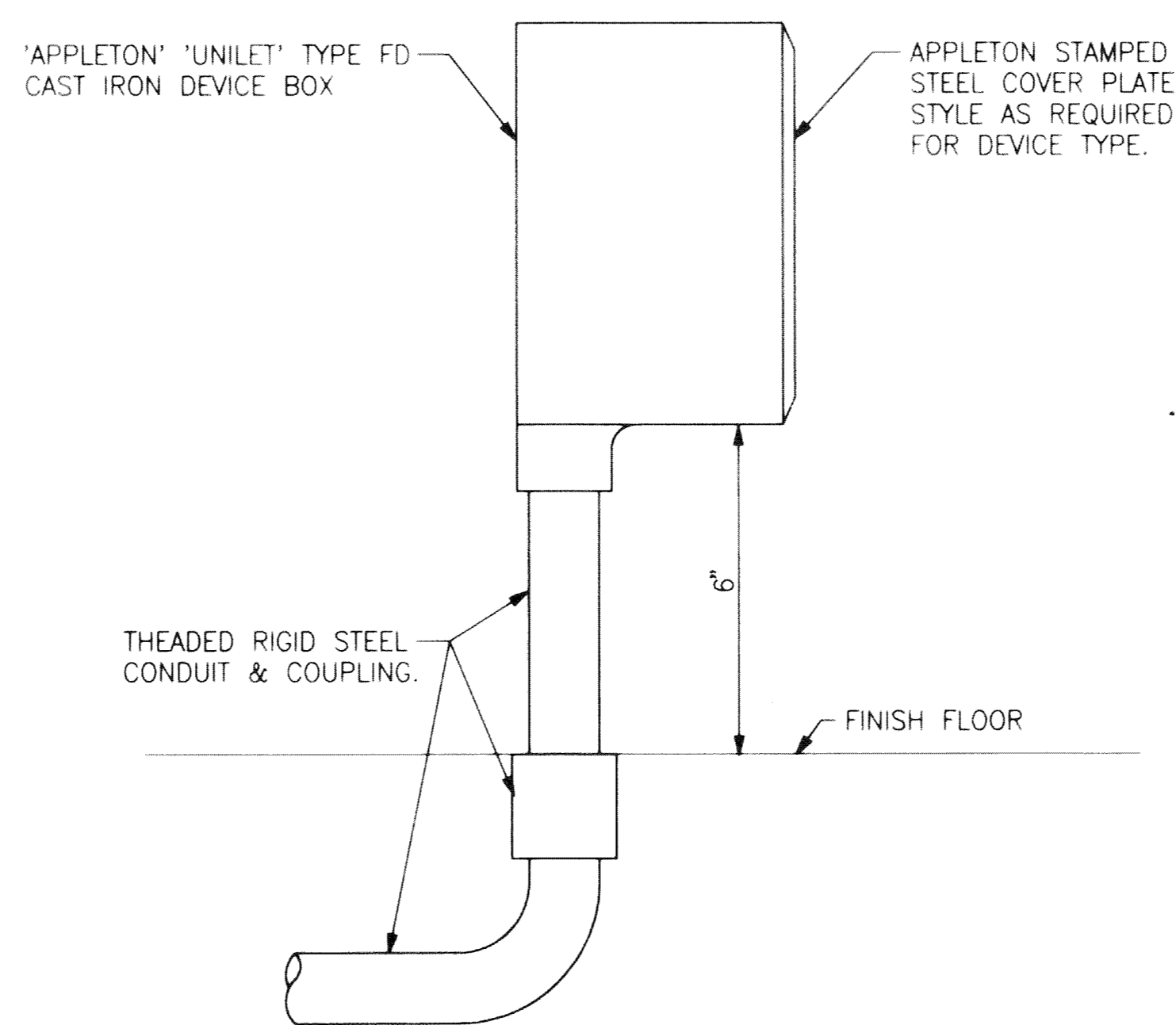
KILN HOOD CONTROL DIAGRAM
DIAGRAMMATIC



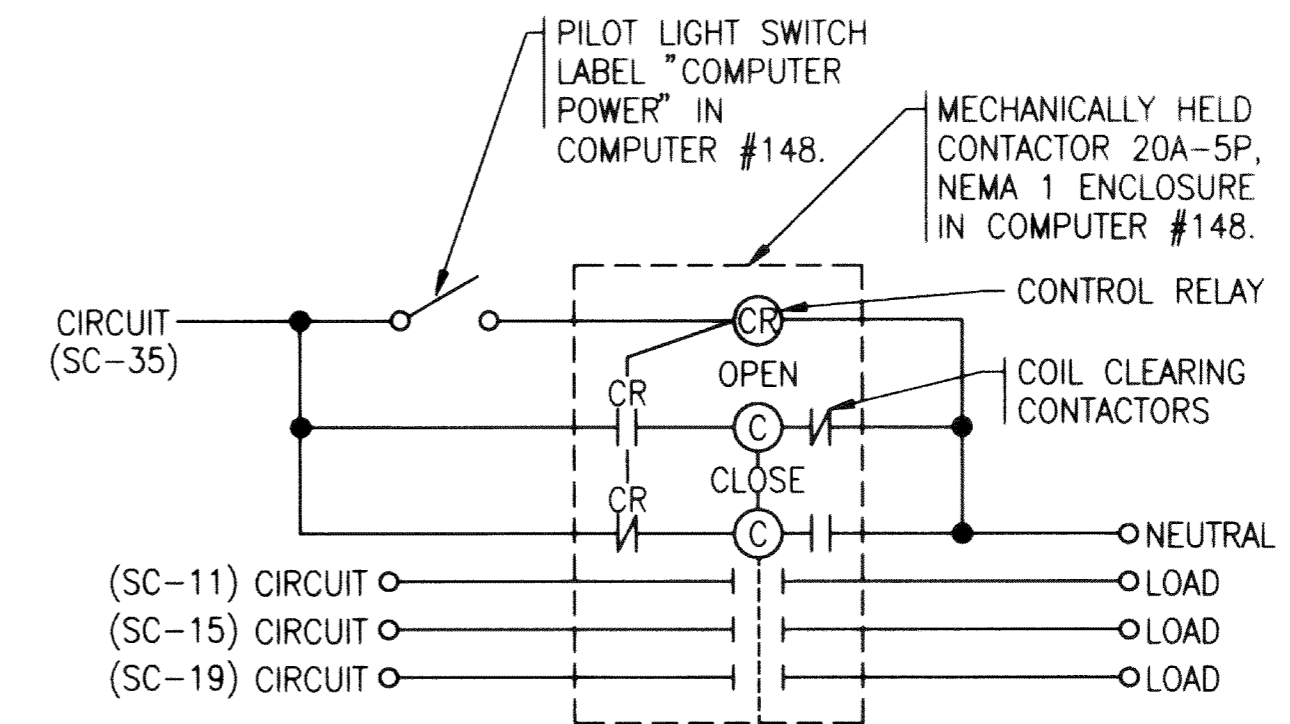
DUCT BANK DETAIL
NOT TO SCALE



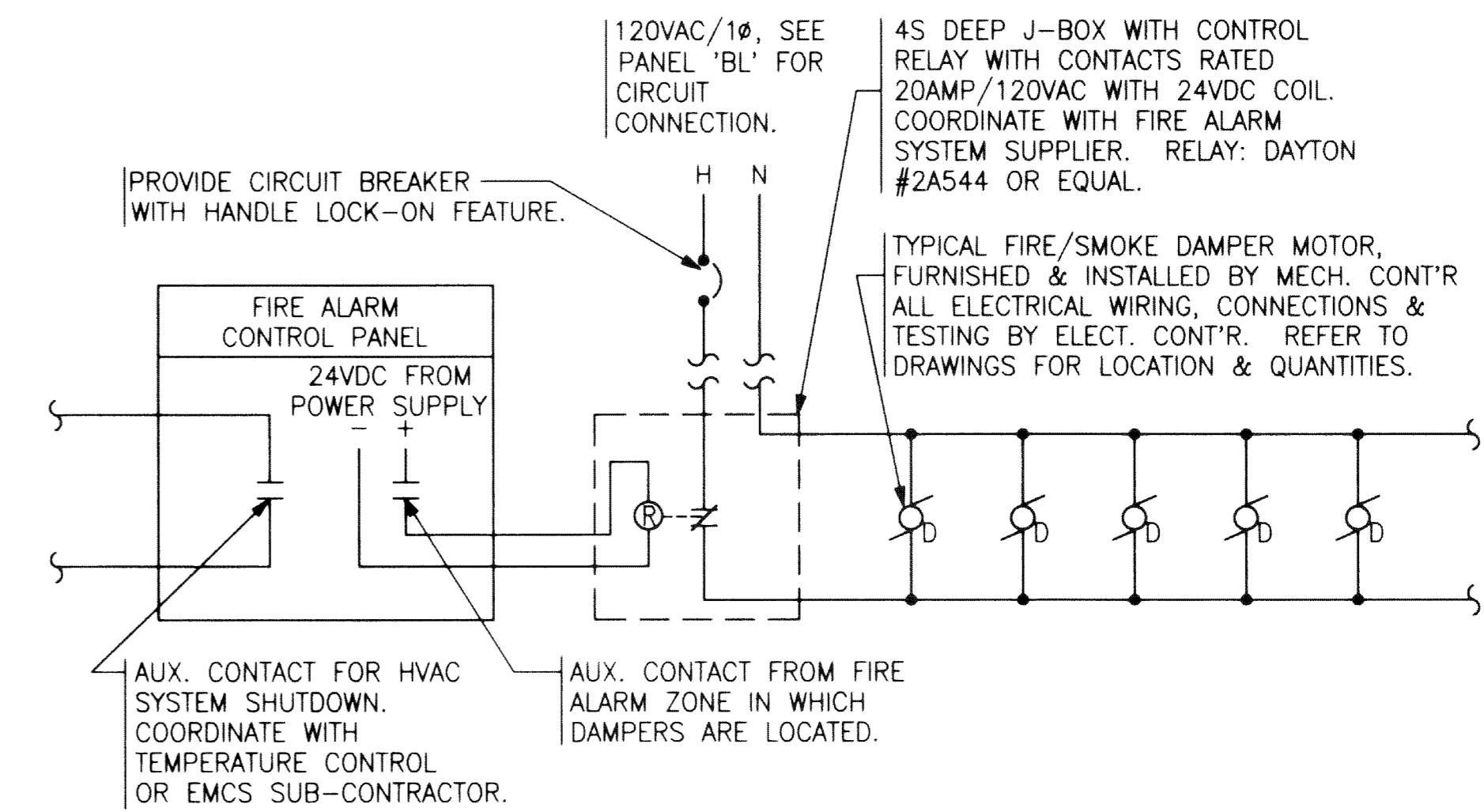
DROP CORD DETAIL
NOT TO SCALE



SHOP EQUIPMENT SERVICE FLOOR BOX DETAIL
NOT TO SCALE

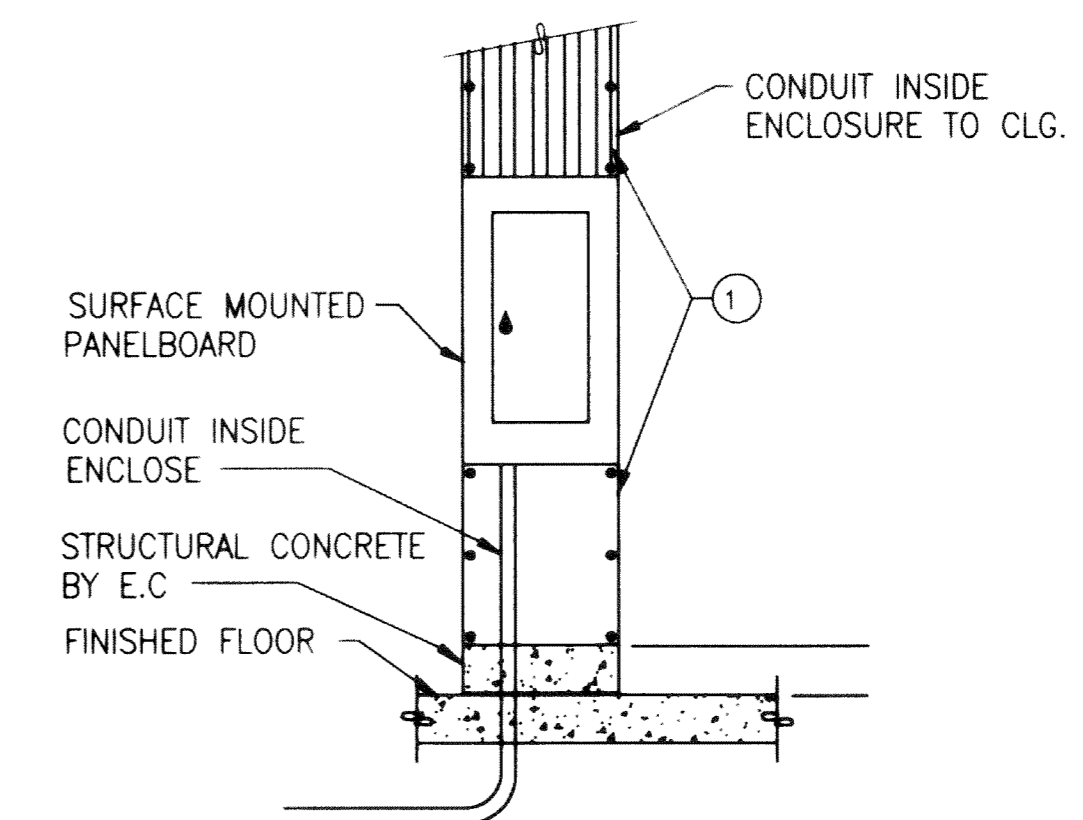


COMPUTER SWITCHING CONTROL (TYPICAL)
NOT TO SCALE



SEQUENCE OF OPERATION: UPON POWER OUTAGE OR ZONE FIRE ALARM SIGNAL, FIRE/SMOKE DAMPERS SHALL CLOSE, AND HVAC SYSTEM SHALL BE SHUTDOWN. UPON RESET OF FIRE ALARM CONTROL PANEL, DAMPERS SHALL AUTOMATICALLY OPEN, AND HVAC SYSTEM SHALL START.

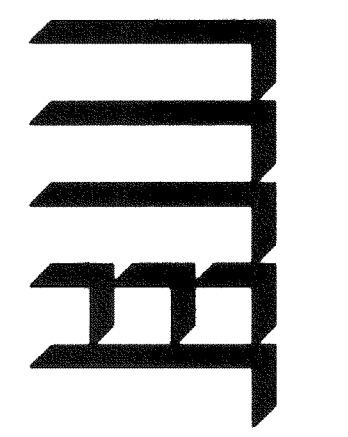
FIRE/SMOKE DAMPER CONTROL DIAGRAM
NOT TO SCALE



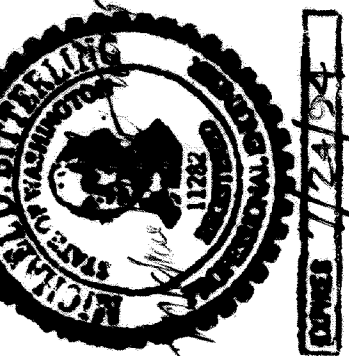
CONSTRUCTION NOTES
① 20 GA. SHEET METAL ENCLOSURE TO FIT FLUSH W/PANEL TRIM. FINISH TO MATCH PANELBOARD. CONDUIT ENCLOSURE SHALL BE MANUFACTURED BY PANEL MANUFACTURER.
TYPICAL SURFACE MOUNTED PANELBOARD INSTALLATION DETAIL
NOT TO SCALE



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 OF 4.11

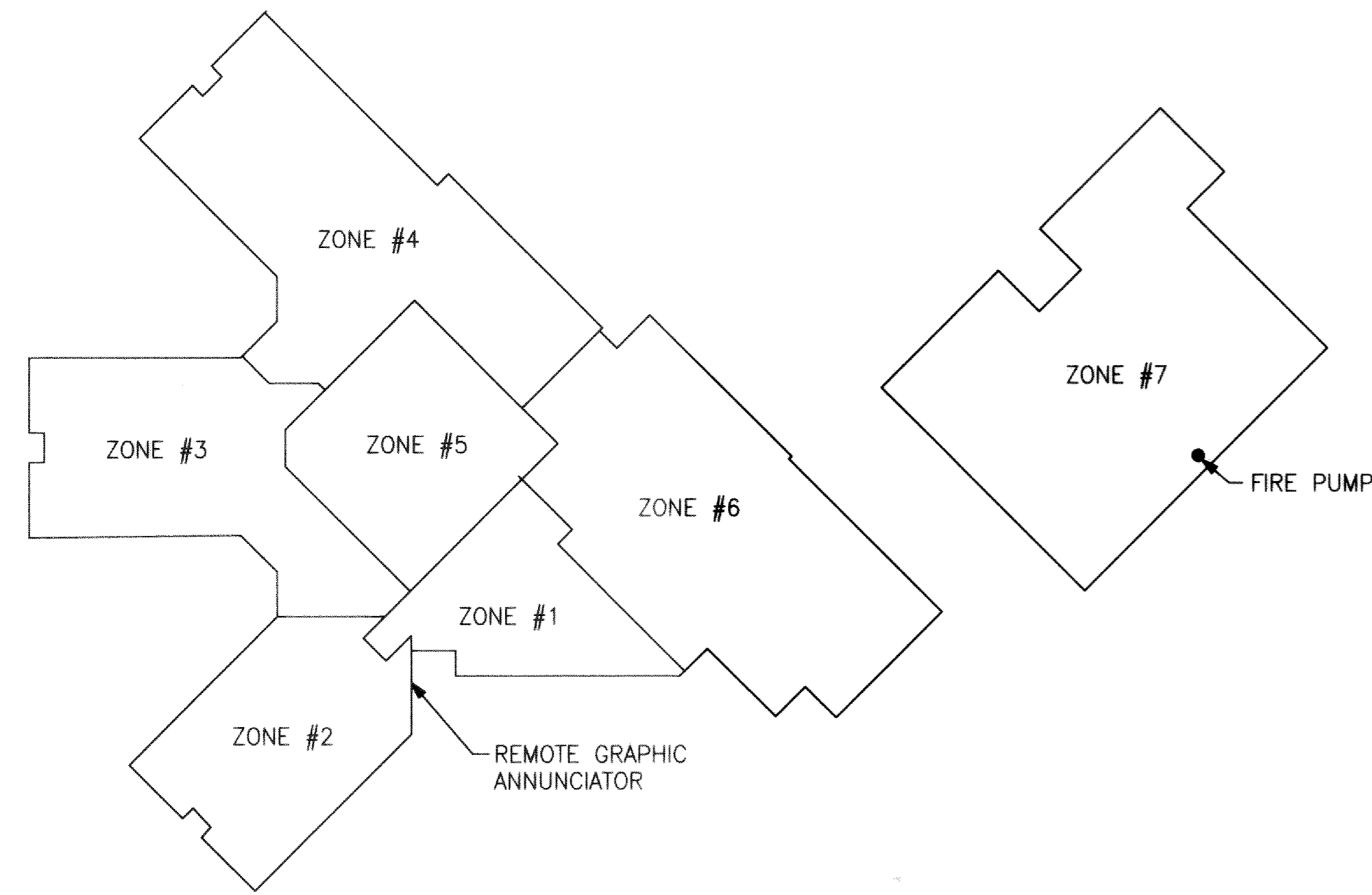


GENERAL NOTES

1. [1] REFERS TO DATA SYSTEM DETAIL ON SHT. E5.6.

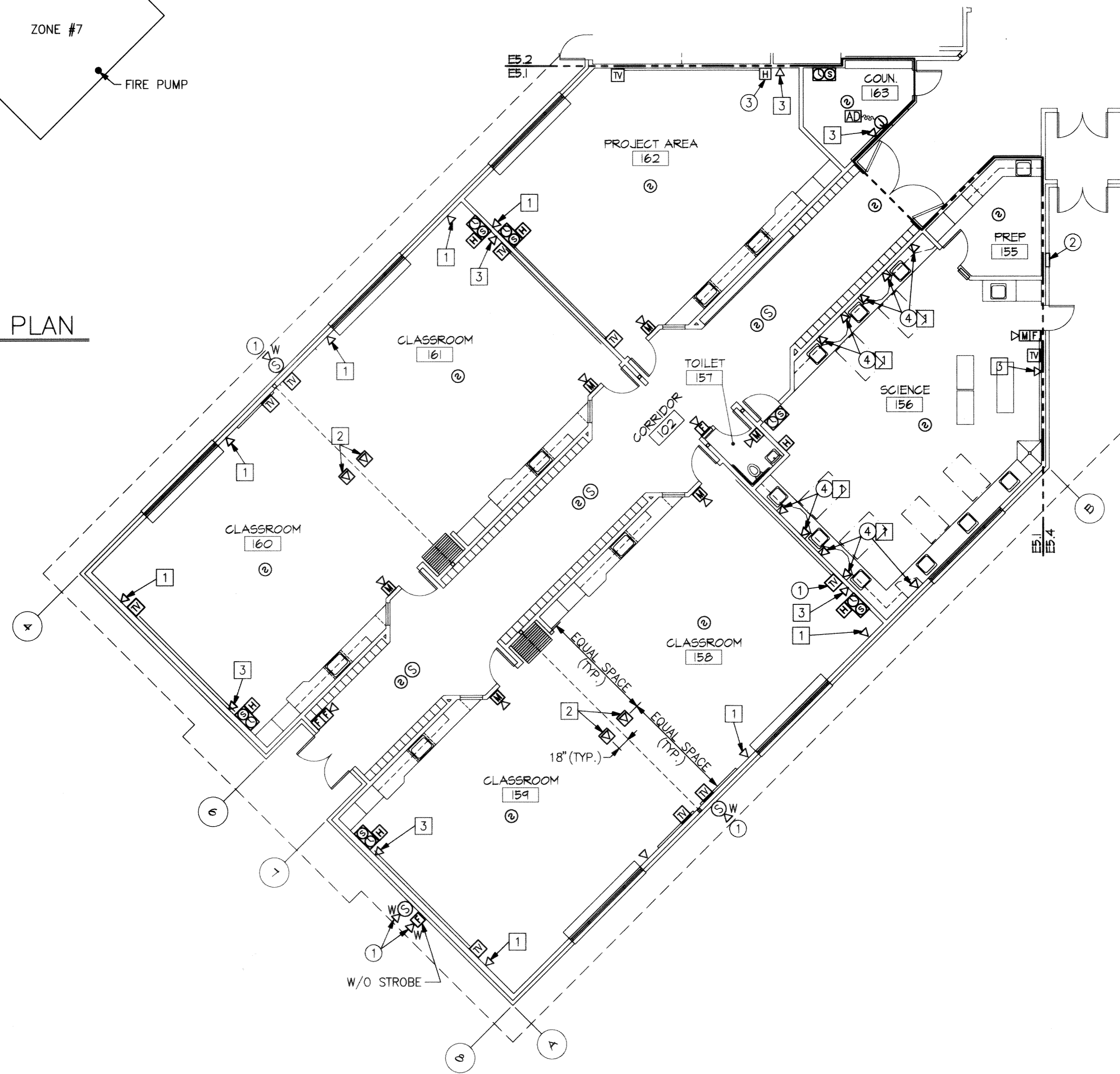
CONSTRUCTION NOTES

1. INSTALL WITH CENTERLINE AT +9'-6" A.F.F.
2. F.A. REMOTE GRAPHIC ANNUNCIATOR
3. OUTLET ONLY FOR ALTERNATE I.C. HANDSET LOCATION.
4. INSTALL IN CASEWORK WITH BOTTOM +2" ABOVE BOTTOM SHELF. COORDINATE LOCATION WITH G.C. & CASEWORK MANUFACTURER PRIOR TO ROUGH-IN.

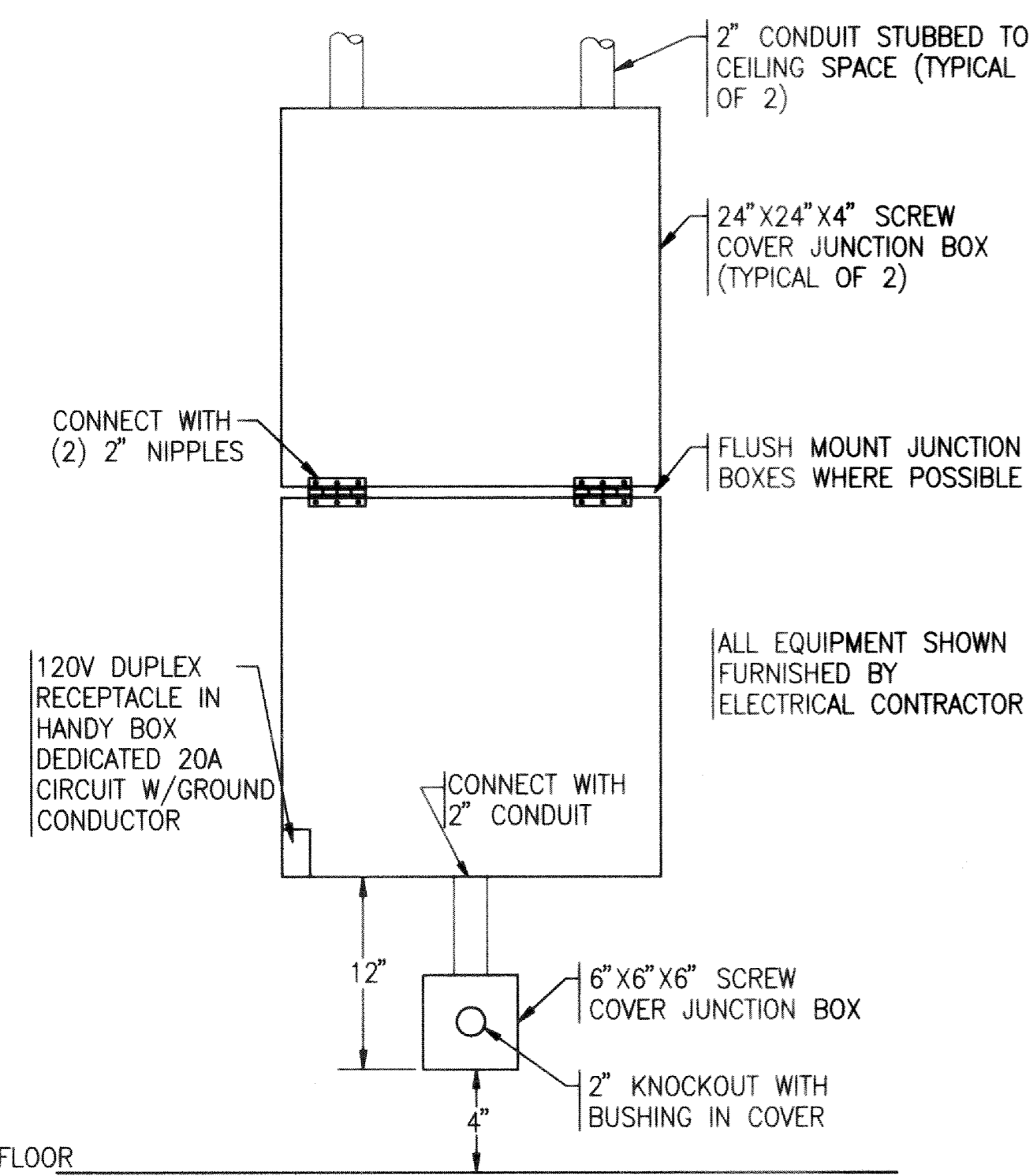
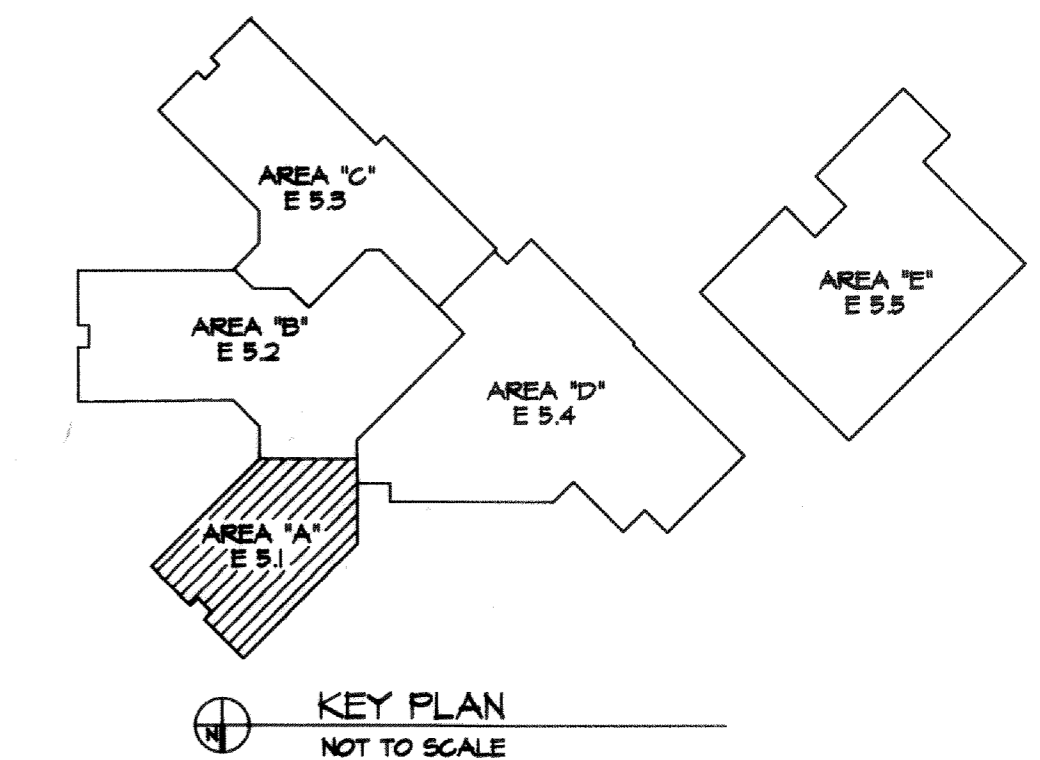


FIRE ALARM MANUAL ZONE PLAN
NOT TO SCALE

NOTE:
FOR ADDITIONAL FIRE ALARM ZONES
SEE FIRE ALARM DIAGRAM SHT. E5.6.

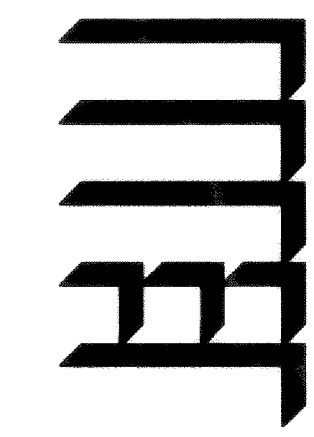


FLOOR PLAN - AREA 'A' - SYSTEMS
SCALE: 1/8" = 1'-0"



I.C. & CLOCK SYSTEMS
J-BOX DETAIL
NOT TO SCALE

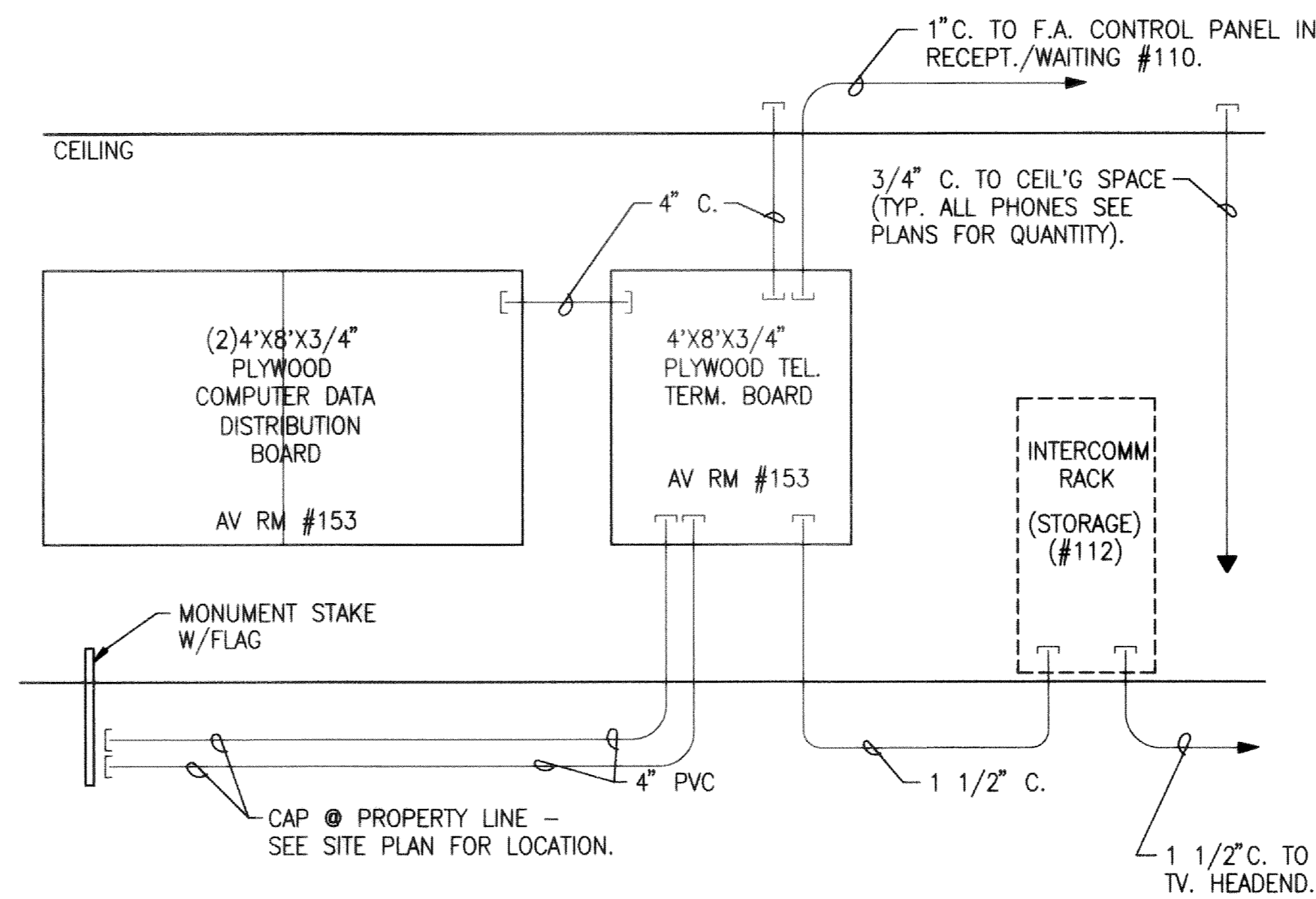
FLOOR PLAN - AREA "A" - SYSTEMS
WESTSIDE MIDDLE SCHOOL
OLYMPIA SCHOOL DISTRICT
ERICKSON MCGOVERN ARCHITECTS 120 SO. 131 ST., TACOMA WA. 98444 (206) 531-0206



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DRAWN D.M.N.	DATE 5/7/93
SHT	E5.1
OF	

GENERAL NOTES

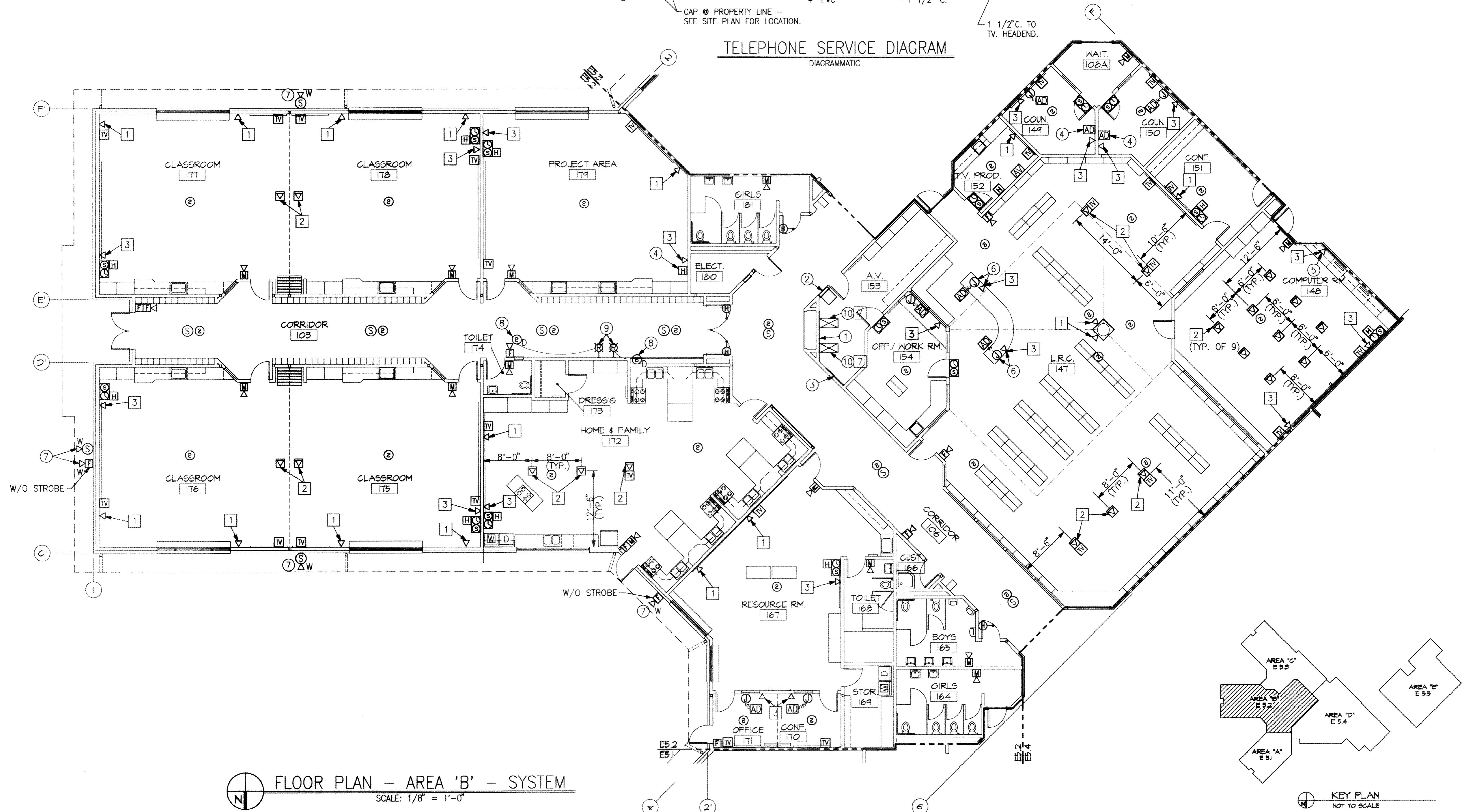
1. [1] REFERS TO DATA SYSTEM DETAIL ON SHT. E5.6.



CONSTRUCTION NOTES

- 1 COMPUTER DATA DISTRIBUTION BACKBOARD.
- 2 TV HEAD END WITH A.V. JACK.
- 3 TELEPHONE TERMINAL BOARD
- 4 OUTLET ONLY FOR ALTERNATE I.C. HANDSET/ DESKSET LOCATION.
- 5 INSTALL WITH BOTTOM +2" ABOVE WORKSURFACE /BACKSLASH.
- 6 INSTALL IN CASEWORK KNEESPACE AT +18" A.F.F. COORDINATE LOCATION WITH G.C. & CASEWORK MANUFACTURER PRIOR TO ROUGH-IN.
- 7 INSTALL WITH CENTERLINE AT +9'-6" A.F.F. IN SUPPLY AND RETURN AIR DUCTS.
- 8 COMBINE REMOTE INDICATORS INTO A LED TYPE ANNUNCIATOR ON A SINGLE OF DOUBLE GANG STAINLESS STEEL PLATE, CLEARLY LABEL FOR EACH MECHANICAL UNIT SERVED.
- 10 DATA RELAY RACK, INSTALL ON DATA DISTRIBUTION BOARD IN A.V. #153.

TELEPHONE SERVICE DIAGRAM
DIAGRAMMATIC

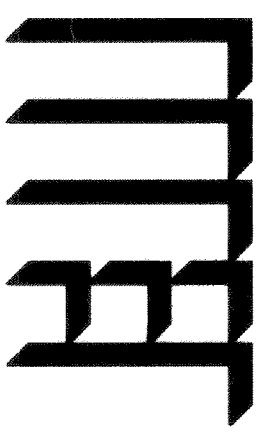


FLOOR PLAN - AREA 'B' - SYSTEM
SCALE: 1/8" = 1'-0"

KEY PLAN
NOT TO SCALE



FLOOR PLAN - AREA 'B' - SYSTEM
WESTSIDE MIDDLE SCHOOL
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DRAWN D.M.N. DATE 5/7/93
SHT E5.2
OF

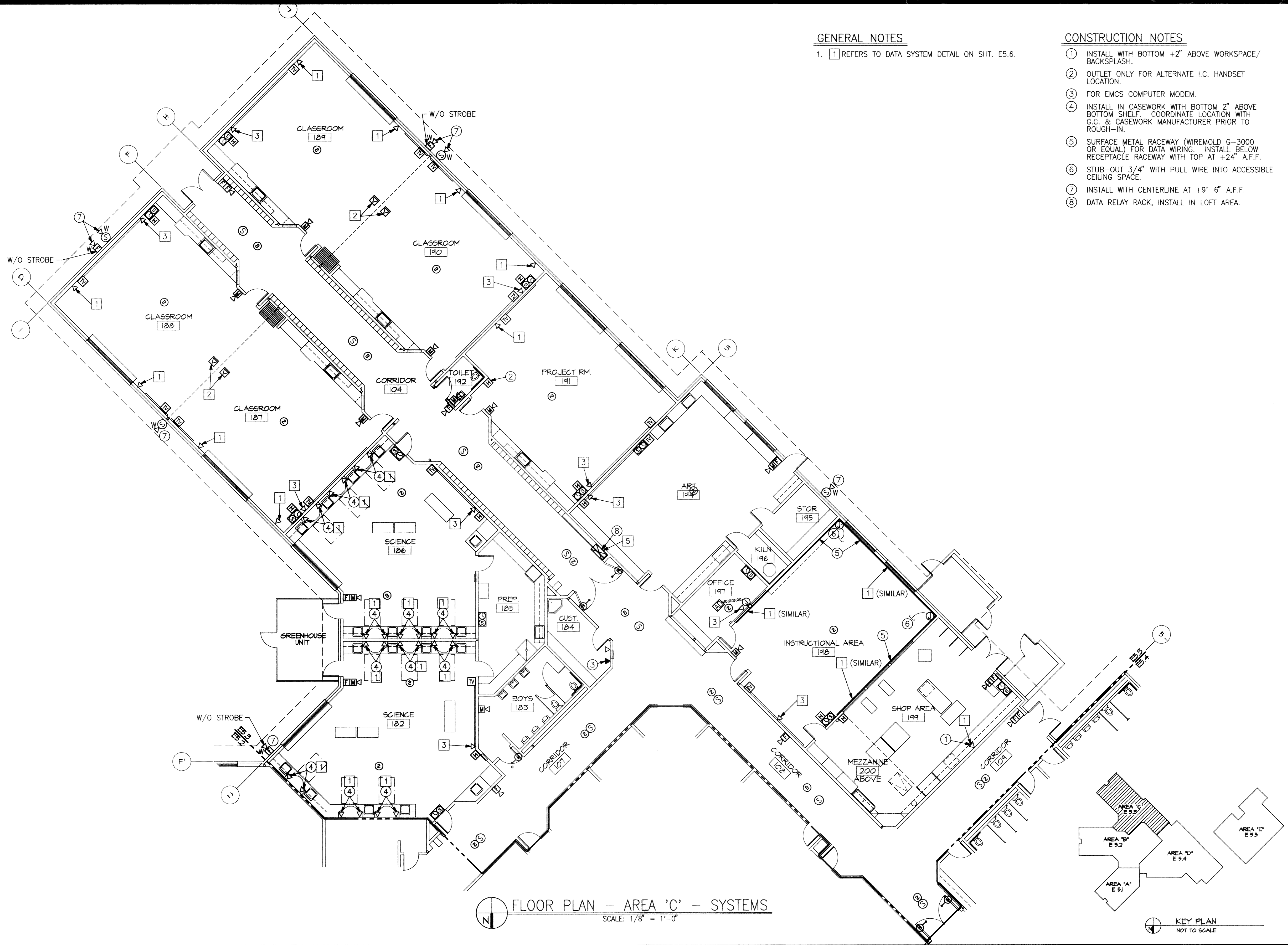


GENERAL NOTES

1. [1] REFERS TO DATA SYSTEM DETAIL ON SHT. E5.6.

CONSTRUCTION NOTES

- ① INSTALL WITH BOTTOM +2" ABOVE WORKSPACE/BACKSPLASH.
- ② OUTLET ONLY FOR ALTERNATE I.C. HANDSET LOCATION.
- ③ FOR EMCS COMPUTER MODEM.
- ④ INSTALL IN CASEWORK WITH BOTTOM 2" ABOVE BOTTOM SHELF. COORDINATE LOCATION WITH G.C. & CASEWORK MANUFACTURER PRIOR TO ROUGH-IN.
- ⑤ SURFACE METAL RACEWAY (WIREMOLD G-3000 OR EQUAL) FOR DATA WIRING. INSTALL BELOW RECEPTACLE RACEWAY WITH TOP AT +24" A.F.F.
- ⑥ STUB-OUT 3/4" WITH PULL WIRE INTO ACCESSIBLE CEILING SPACE.
- ⑦ INSTALL WITH CENTERLINE AT +9'-6" A.F.F.
- ⑧ DATA RELAY RACK, INSTALL IN LOFT AREA.



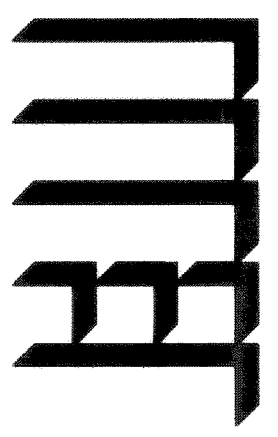
FLOOR PLAN - AREA 'C' - SYSTEMS
 SCALE: 1/8" = 1'-0"

KEY PLAN
 NOT TO SCALE

FLOOR PLAN - AREA 'C' - SYSTEMS

WESTSIDE MIDDLE SCHOOL
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SHT E5.3 OF

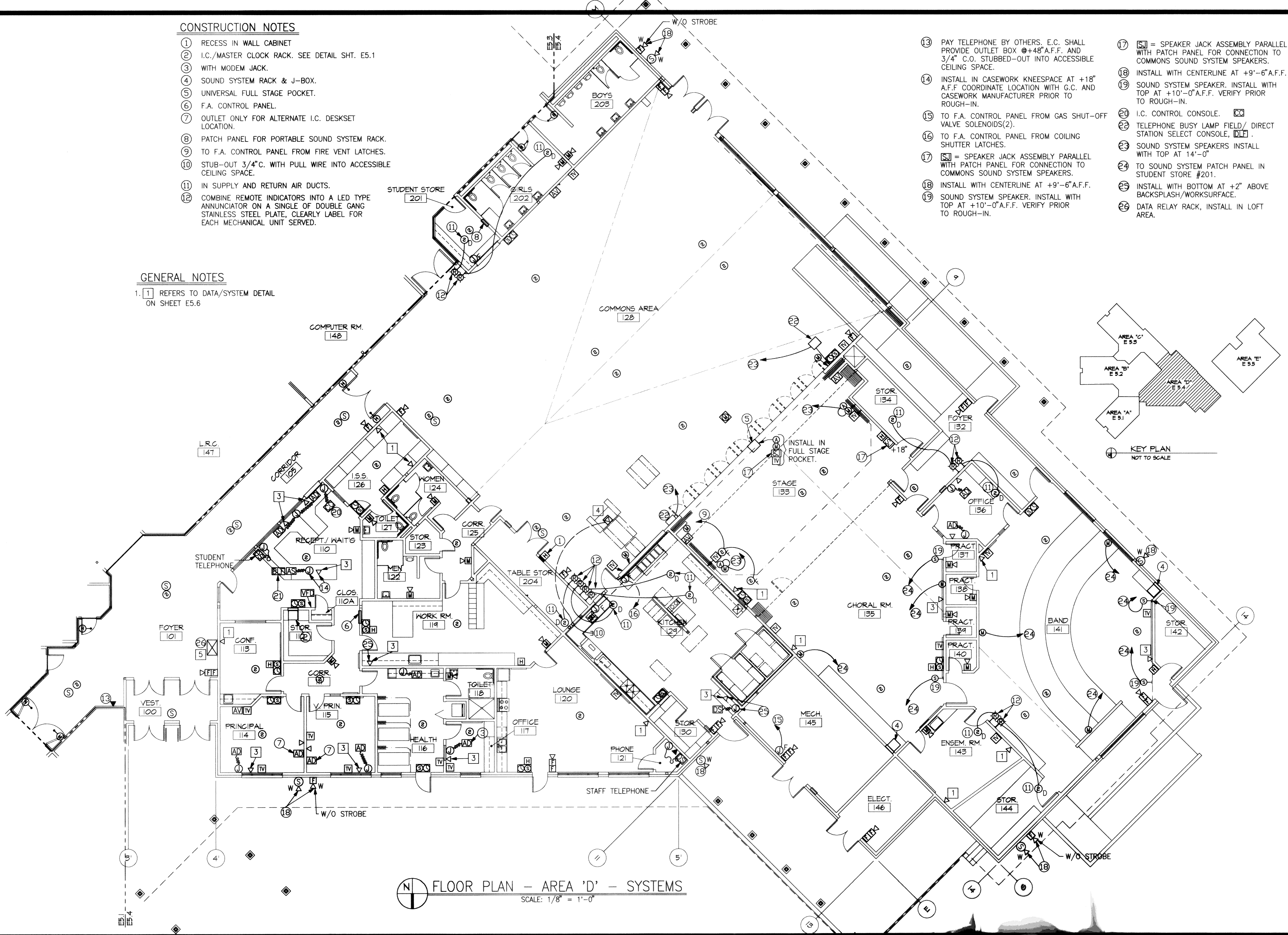
CONSTRUCTION NOTES

- ① RECESS IN WALL CABINET
- ② I.C./MASTER CLOCK RACK. SEE DETAIL SHT. E5.1
- ③ WITH MODEM JACK.
- ④ SOUND SYSTEM RACK & J-BOX.
- ⑤ UNIVERSAL FULL STAGE POCKET.
- ⑥ F.A. CONTROL PANEL.
- ⑦ OUTLET ONLY FOR ALTERNATE I.C. DESKSET LOCATION.
- ⑧ PATCH PANEL FOR PORTABLE SOUND SYSTEM RACK.
- ⑨ TO F.A. CONTROL PANEL FROM FIRE VENT LATCHES.
- ⑩ STUB-OUT 3/4" C. WITH PULL WIRE INTO ACCESSIBLE CEILING SPACE.
- ⑪ IN SUPPLY AND RETURN AIR DUCTS.
- ⑫ COMBINE REMOTE INDICATORS INTO A LED TYPE ANNUNCIATOR ON A SINGLE OF DOUBLE GANG STAINLESS STEEL PLATE, CLEARLY LABEL FOR EACH MECHANICAL UNIT SERVED.

- ⑬ PAY TELEPHONE BY OTHERS. E.C. SHALL PROVIDE OUTLET BOX @+48" A.F.F. AND 3/4" C.O. STUBBED-OUT INTO ACCESSIBLE CEILING SPACE.
- ⑭ INSTALL IN CASEWORK KNEESPACE AT +18" A.F.F. COORDINATE LOCATION WITH G.C. AND CASEWORK MANUFACTURER PRIOR TO ROUGH-IN.
- ⑮ TO F.A. CONTROL PANEL FROM GAS SHUT-OFF VALVE SOLENOIDS(2).
- ⑯ TO F.A. CONTROL PANEL FROM COILING SHUTTER LATCHES.
- ⑰ [S] = SPEAKER JACK ASSEMBLY PARALLEL WITH PATCH PANEL FOR CONNECTION TO COMMONS SOUND SYSTEM SPEAKERS.
- ⑱ INSTALL WITH CENTERLINE AT +9'-6" A.F.F.
- ⑲ SOUND SYSTEM SPEAKER. INSTALL WITH TOP AT +10'-0" A.F.F. VERIFY PRIOR TO ROUGH-IN.
- ⑳ I.C. CONTROL CONSOLE. [C]
- ㉑ TELEPHONE BUSY LAMP FIELD/ DIRECT STATION SELECT CONSOLE. [D]
- ㉒ SOUND SYSTEM SPEAKERS INSTALL WITH TOP AT 14'-0"
- ㉓ TO SOUND SYSTEM PATCH PANEL IN STUDENT STORE #201.
- ㉔ INSTALL WITH BOTTOM AT +2" ABOVE BACKSPLASH/WORKSURFACE.
- ㉕ DATA RELAY RACK, INSTALL IN LOFT AREA.

GENERAL NOTES

- 1. [1] REFERS TO DATA/SYSTEM DETAIL ON SHEET E5.6



FLOOR PLAN - AREA 'D' - SYSTEMS
SCALE: 1/8" = 1'-0"



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OF	

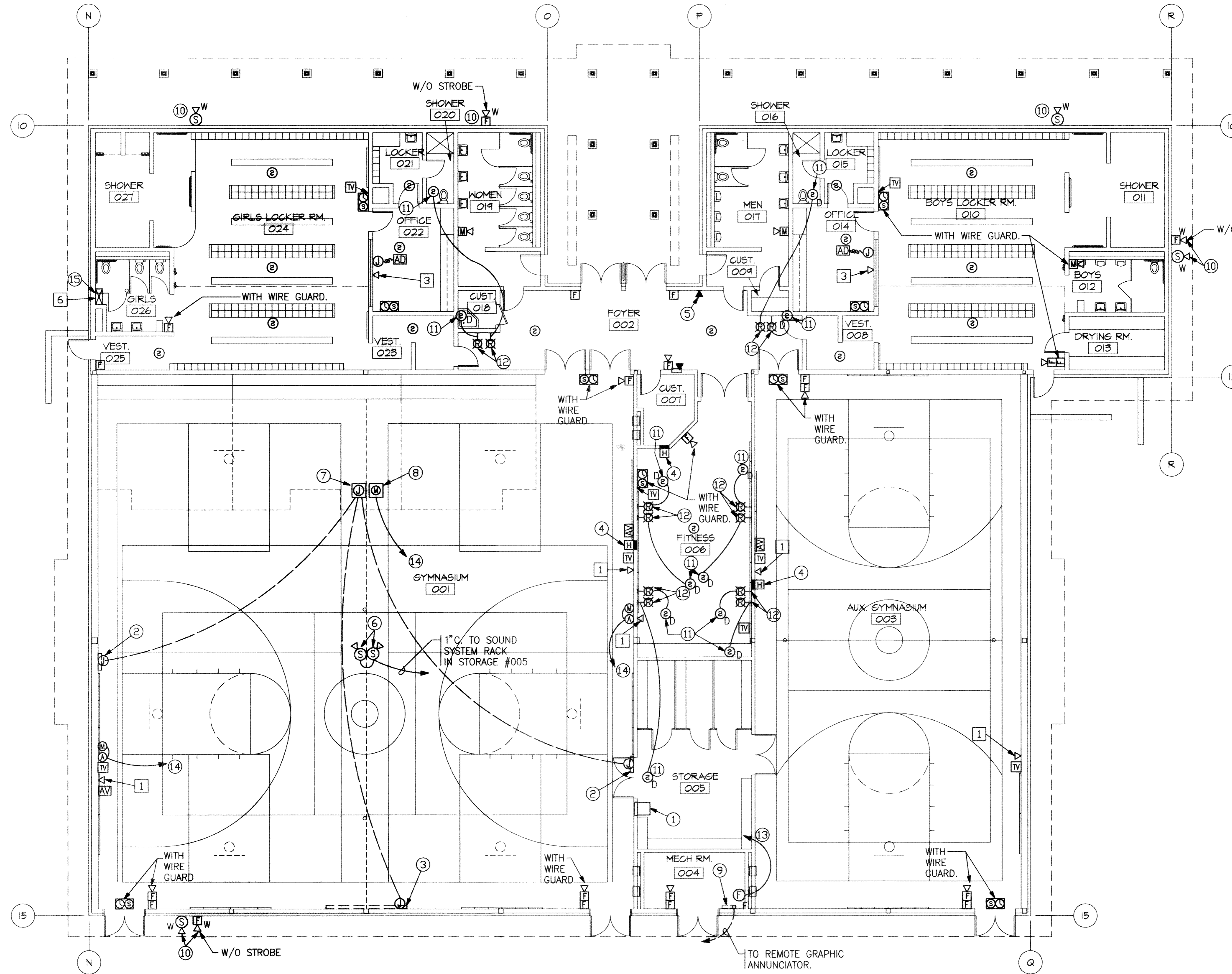


GENERAL NOTES

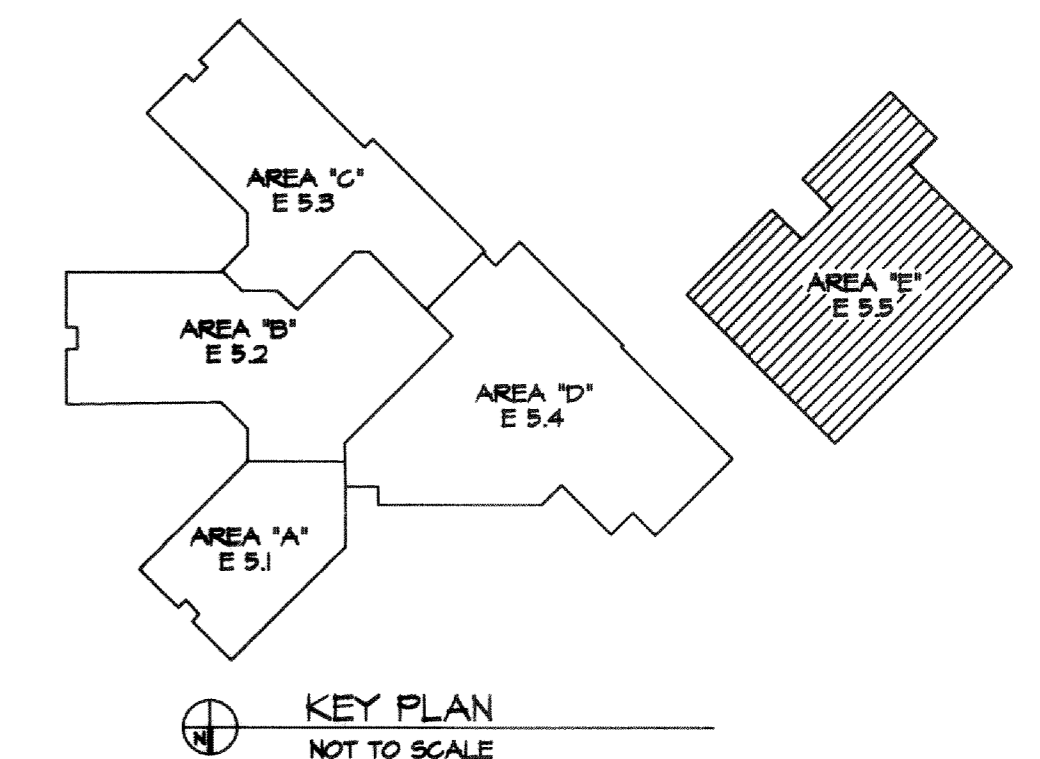
- 1. [1] REFERS TO DATA/SYSTEM DETAIL ON SHEET E5.6

CONSTRUCTION NOTES

- 1 SOUND SYSTEM RACK & J-BOX
- 2 SHOT CLOCK (BY OWNER) ROUGH-IN BY E.C.
- 3 SCOREBOARD (BY OWNER) ROUGH-IN BY E.C.
- 4 RECESS IN WALL CABINET
- 5 PAY TELEPHONE BY OTHERS. E.C. SHALL PROVIDE OUTLET BOX @ +48" A.F.F. AND 3/4" C.O. STUBBED-OUT INTO ACCESSIBLE CEILING SPACE.
- 6 SUSPEND FROM STRUCTURE DIRECTLY BELOW MECH. DUCTWORK, PROVIDE WIRE GUARD.
- 7 FOR SCOREBOARD/TIMER CONTROL CONSOLE JACK, IN FLOOR BOX. VERIFY LOCATION PRIOR TO ROUGH-IN.
- 8 MICROPHONE JACK IN FLOOR BOX, VERIFY LOCATION PRIOR TO ROUGH-IN.
- 9 FIRE PUMP CONTROL PANEL.
- 10 INSTALL WITH CENTERLINE AT +9'-6" A.F.F. IN SUPPLY AND RETURN AIR DUCTS.
- 11
- 12 COMBINE REMOTE INDICATORS INTO A LED TYPE ANNUNCIATOR ON A SINGLE OF DOUBLE GANG STAINLESS STEEL PLATE, CLEARLY LABEL FOR EACH MECHANICAL UNIT SERVED.
- 13 TO F.A. CONTROL PANEL FROM GAS SHUT-OFF VALVE SOLENOID ON LOFT.
- 14 TO SOUND SYSTEM J-BOX IN STORAGE #005.
- 15 DATA RELAY RACK, INSTALL IN LOFT AREA.



FLOOR PLAN - AREA 'E' - SYSTEMS
SCALE: 1/8" = 1'-0"

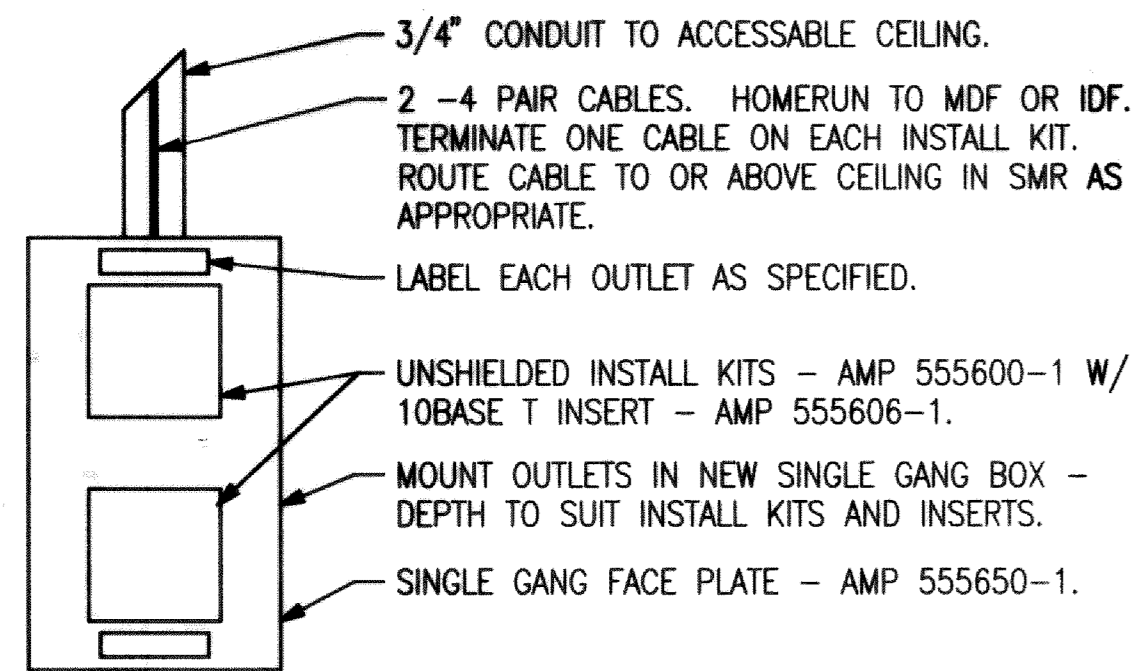


FLOOR PLAN - AREA 'E' - SYSTEMS

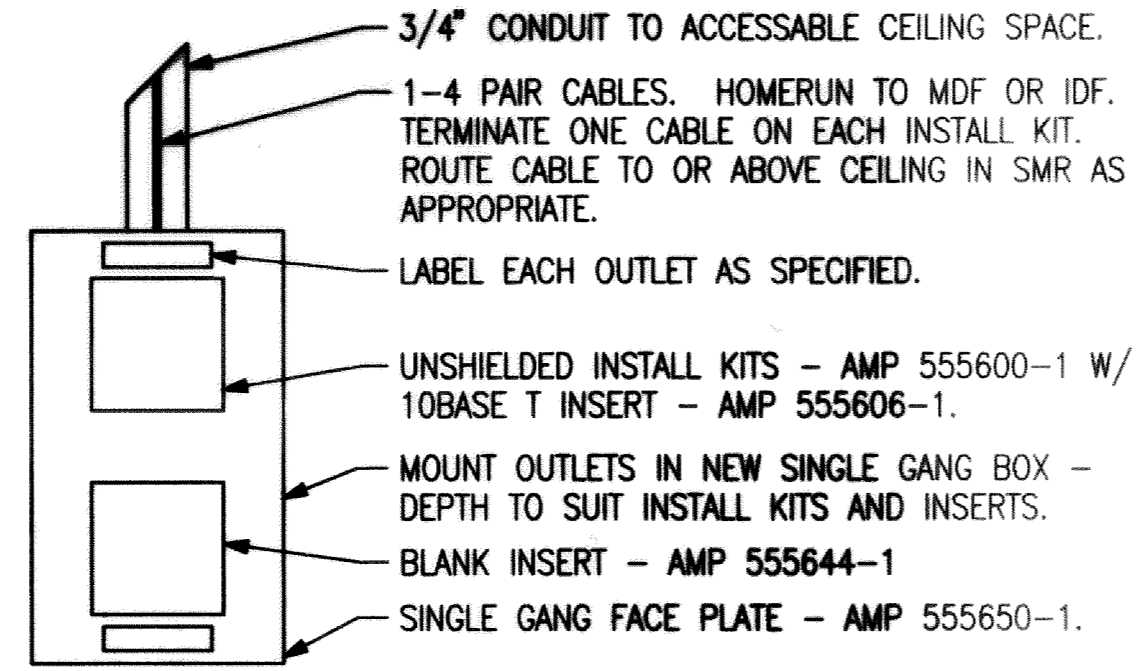
WESTSIDE MIDDLE SCHOOL
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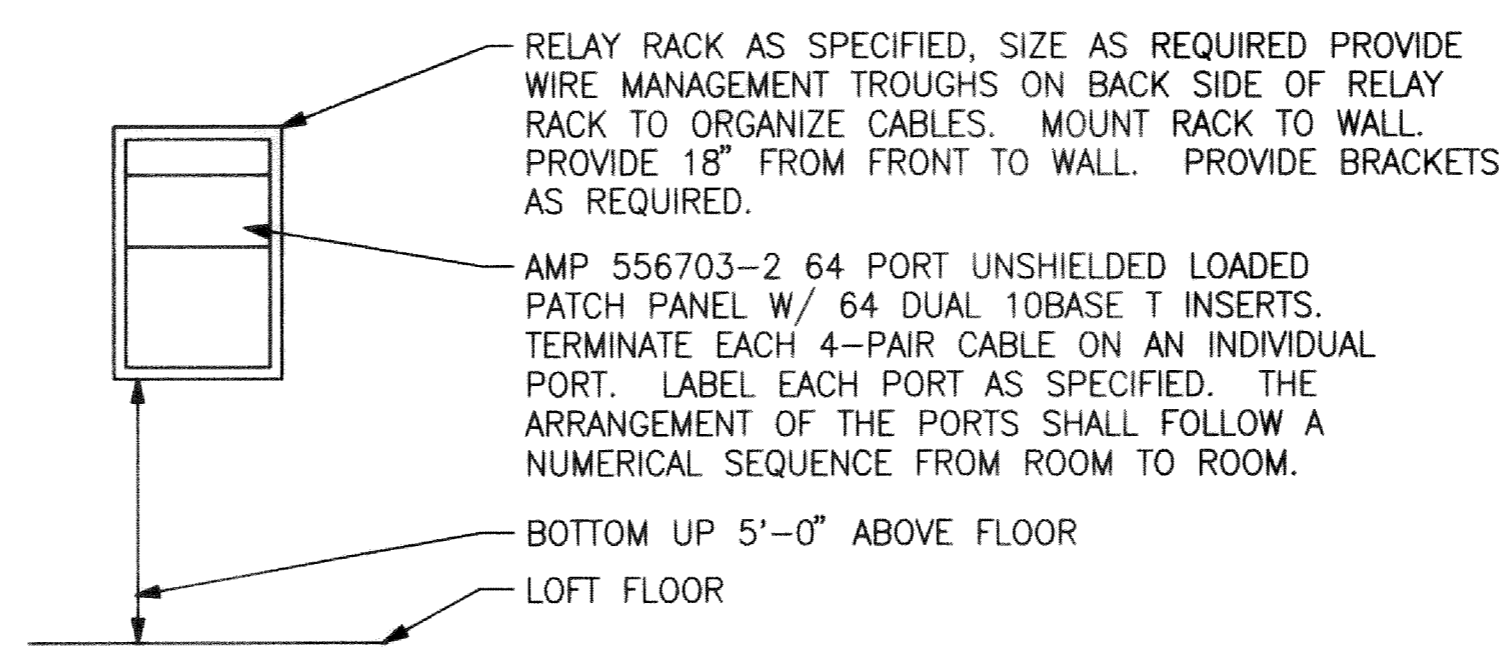
COMM. REV.
DRAWN DMN
DATE 5/7/93
SHT
E5.5
OF



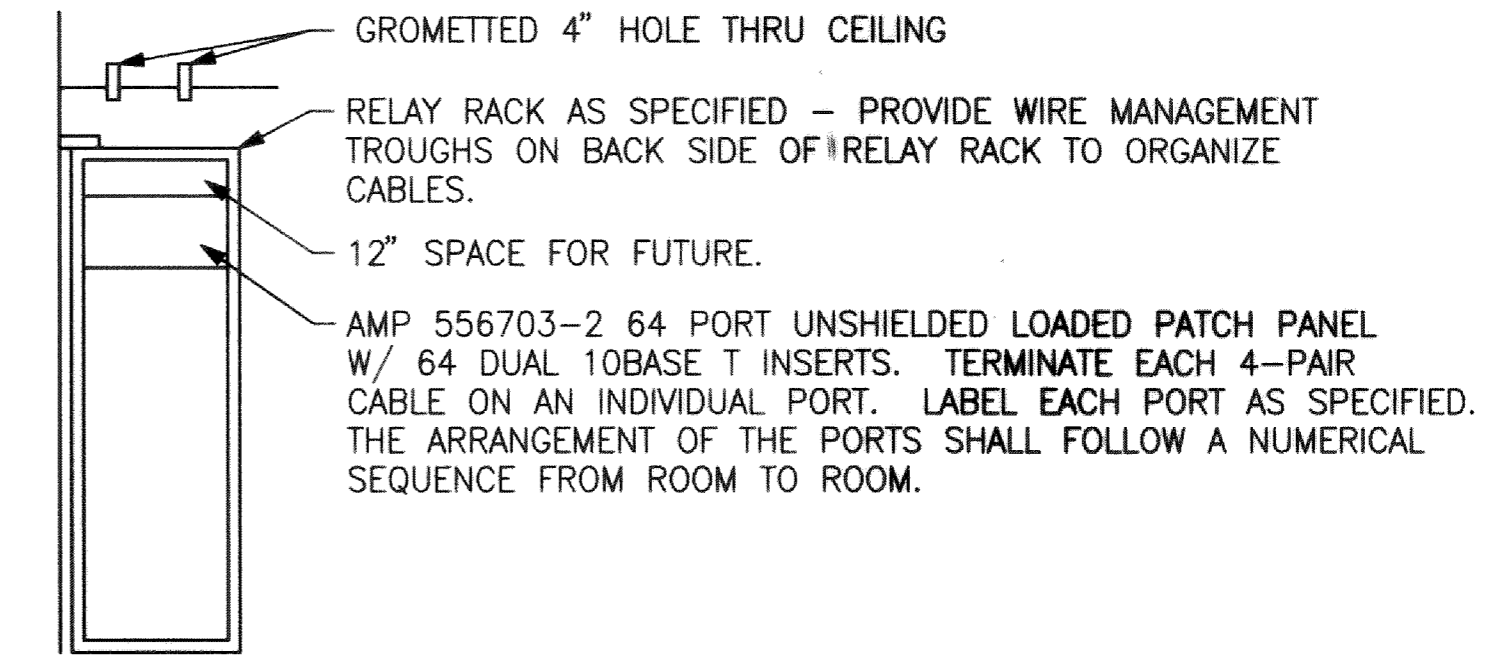
DATA DETAIL 1 CLASSROOM
NOT TO SCALE



DATA DETAIL 3 CLASSROOM
NOT TO SCALE

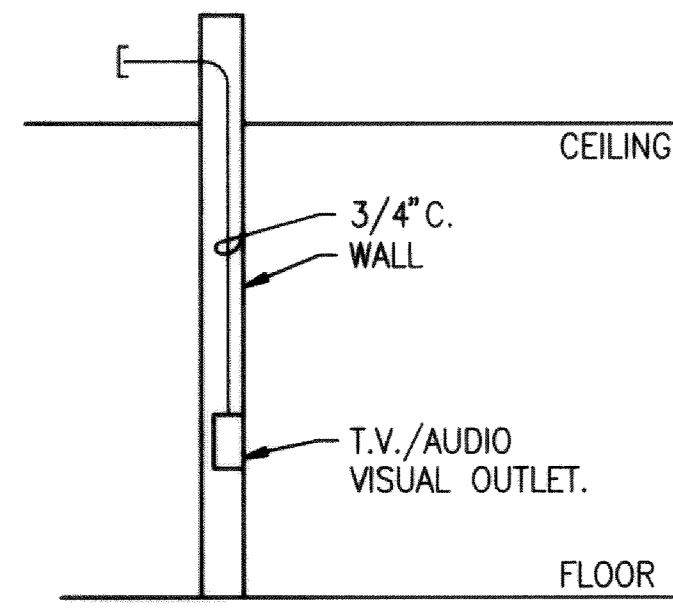


DATA DETAIL 5 CHS
NOT TO SCALE



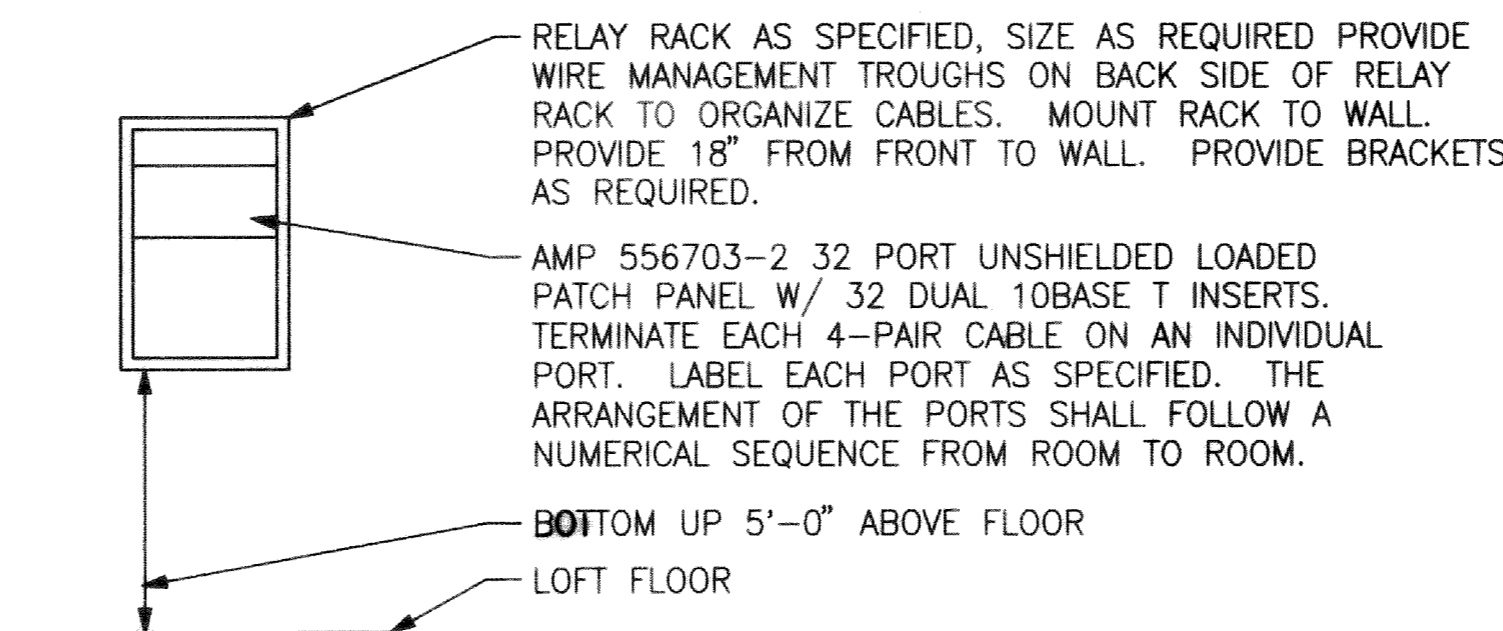
DATA DETAIL 7 MDF - CHS
NOT TO SCALE

2 SAME AS 1 IN FLOOR BOX

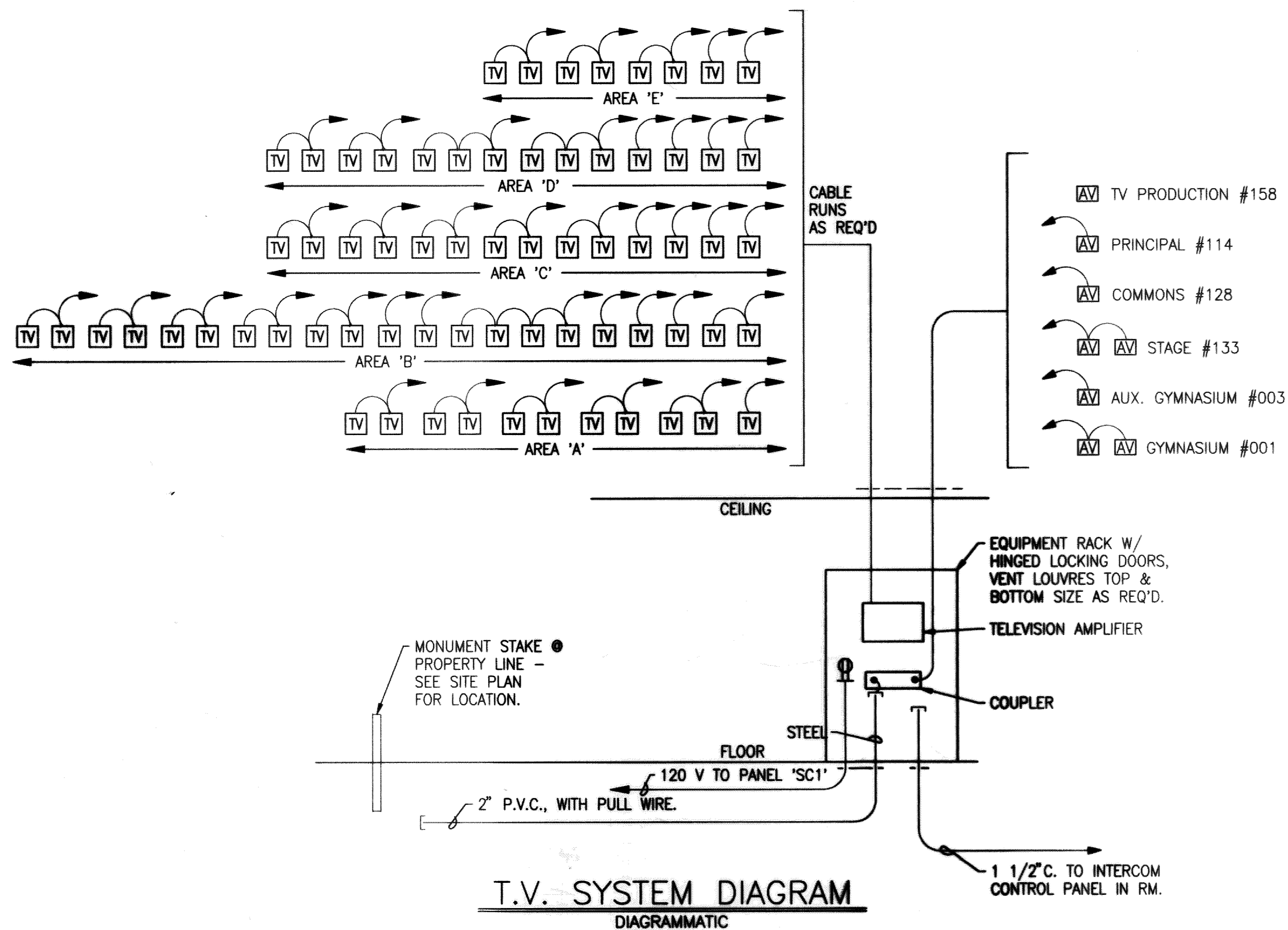


TYPICAL T.V. OUTLET INSTALLATION
NOT TO SCALE

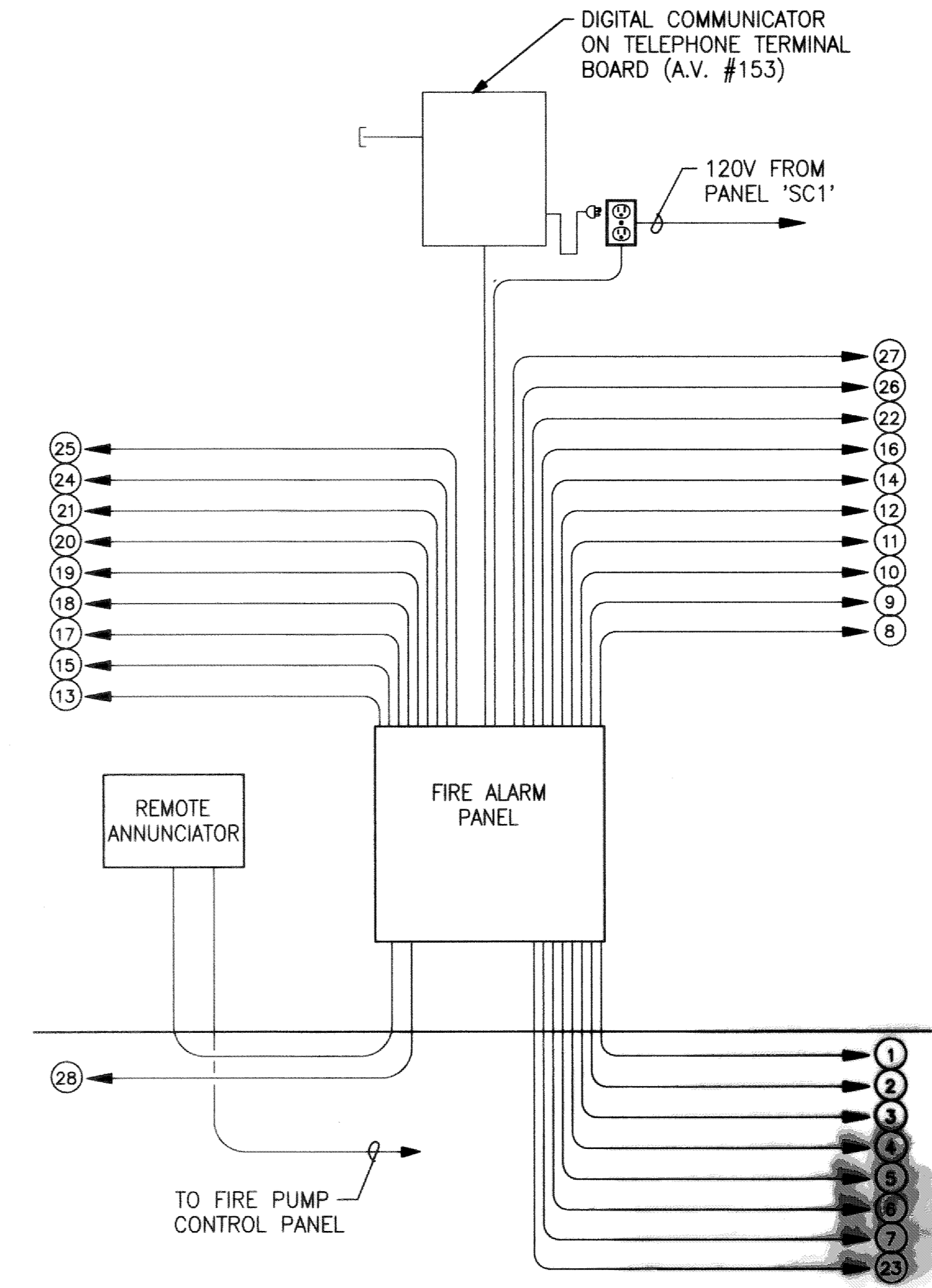
4 SAME AS 3 IN FLOOR BOX



DATA DETAIL 6 IDF
NOT TO SCALE

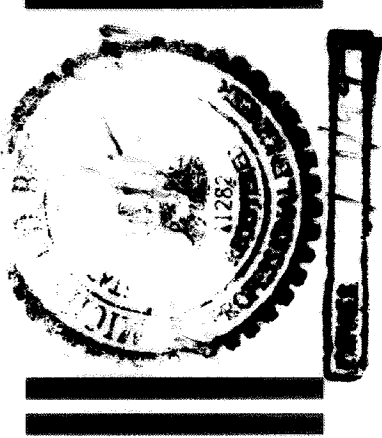


T.V. SYSTEM DIAGRAM
DIAGRAMMATIC



FIRE ALARM DIAGRAM
DIAGRAMMATIC

- 1 P.I.V. VALVE & O.S.&Y VALVE TAMPER SWITCHES
- 2 GYM BUILDING FIRE SPRINKLER SYSTEM (WET) FLOW SWITCH (F.A. ZONE#17)
- 3 GYM BUILDING FIRE SPRINKLER SYSTEM (DRY) PRESSURE SWITCH (F.A. ZONE#18)
- 4 GYM BUILDING IN-DUCT SMOKE DETECTORS (MECH. UNITS 2000CFM & UP). (ZONE#19)
- 5 GYM BUILDING FIRE SPRINKLER SYSTEM (WET & DRY) TAMPERS SWITCHES
- 6 GYM BUILDING HORNS
- 7 GYM BUILDING GAS VALVE SOLENOID
- 8 MAIN BUILDING FIRE SPRINKLER SYSTEM (WET) - FLOW SWITCH. (ZONE#8)
- 9 MAIN BUILDING FIRE SPRINKLER SYSTEM (WET) - FLOW SWITCH. (ZONE#9)
- 10 MAIN BUILDING FIRE SPRINKLER SYSTEM (DRY) - PRESSURE SWITCH. (ZONE#10)
- 11 MAIN BUILDING FIRE SPRINKLER SYSTEM (DRY) - PRESSURE SWITCH. (ZONE#11)
- 12 MAIN BUILDING IN-DUCT SMOKE DETECTORS (MECH. UNITS 2000CFM & UP). (ZONE #12)
- 13 MAIN BUILDING IN-DUCT SMOKE DETECTORS (MECH. UNITS 2000CFM & UP). (ZONE #13)
- 14 KITCHEN HOOD - SPRINKLER FLOW SWITCH. (ZONE #14)
- 15 DUST COLLECTOR - SPRINKLER PRESSURE SWITCH (ZONE #15)
- 16 FIRE VENTS - THERMOLATCH SOLENOIDS. (ZONE #16)
- 17 ZONE #1
- 18 ZONE #2
- 19 ZONE #3
- 20 ZONE #4
- 21 ZONE #5
- 22 ZONE #6
- 23 ZONE #7
- 24 MAIN BUILDING - HORNS
- 25 MAIN BUILDING - DOOR RELEASES
- 26 MAIN BUILDING - GAS VALVE SOLENOIDS (2)
- 27 MAIN BUILDING - FIRE SPRINKLER SYSTEM (WET & DRY) - TAMPER SWITCHES.
- 28 FUTURE PORTABLES (8), (2)ZONE#20, (2)ZONE#21 (2)ZONE#22, (2)ZONE#23.

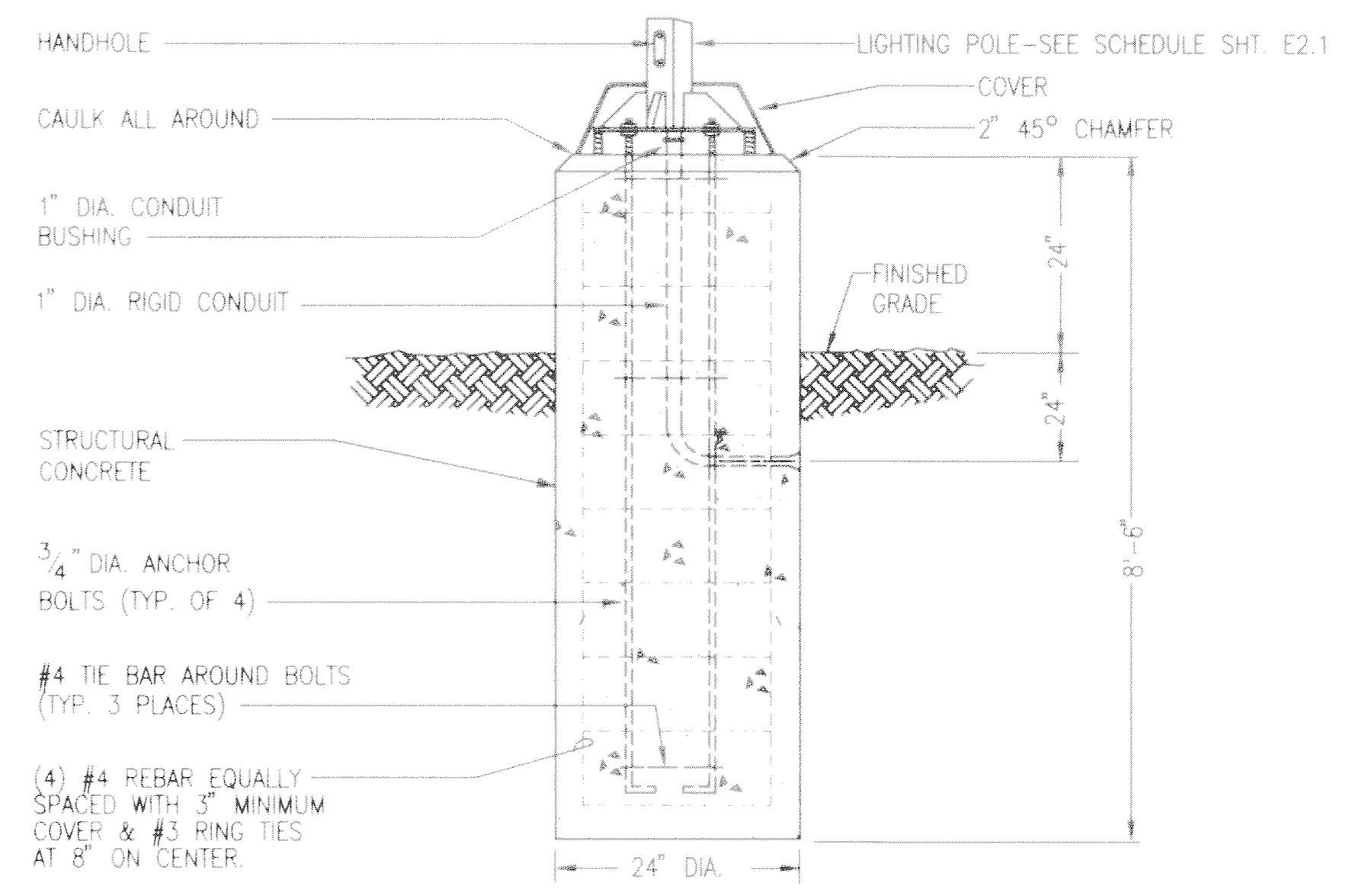
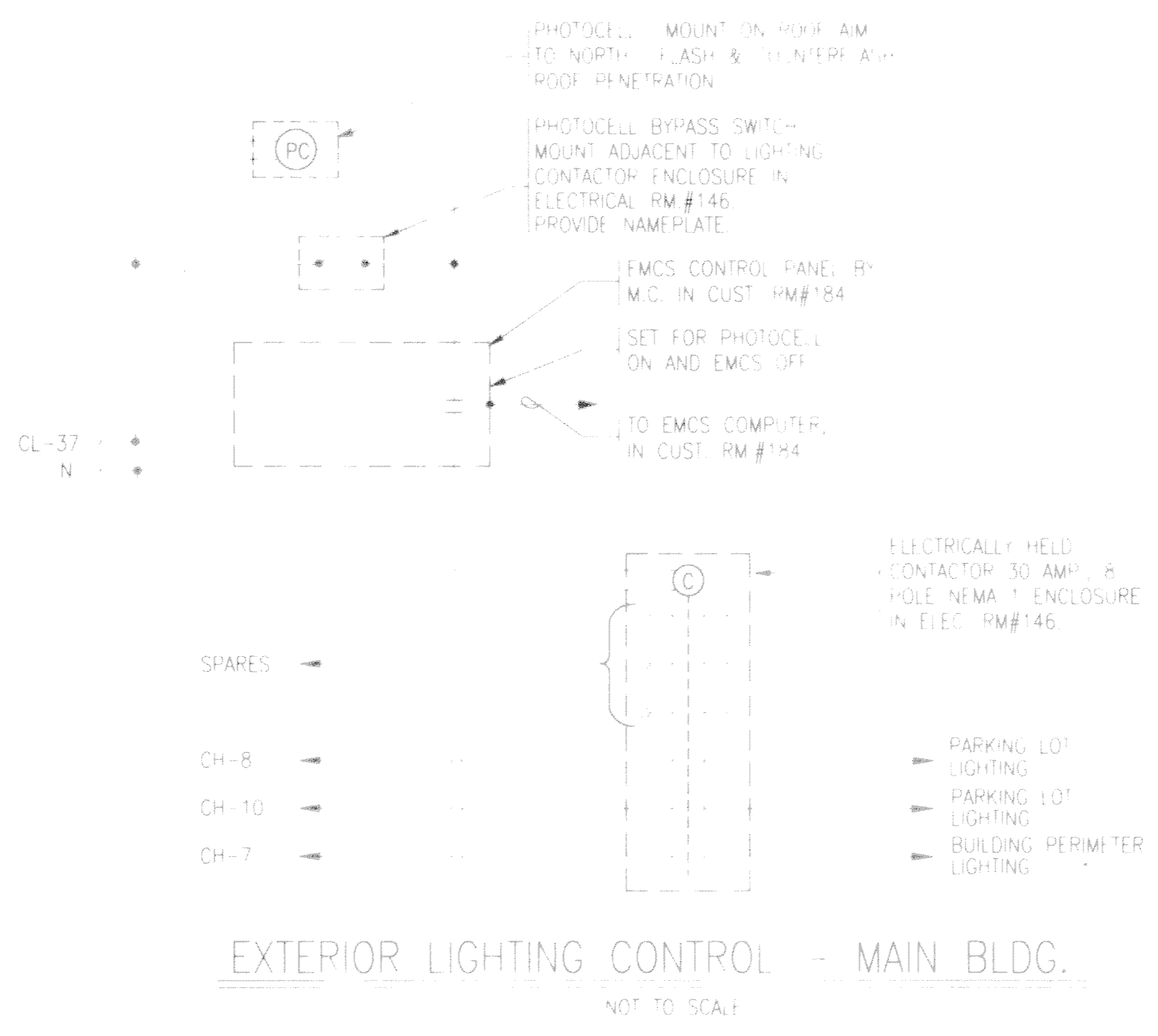
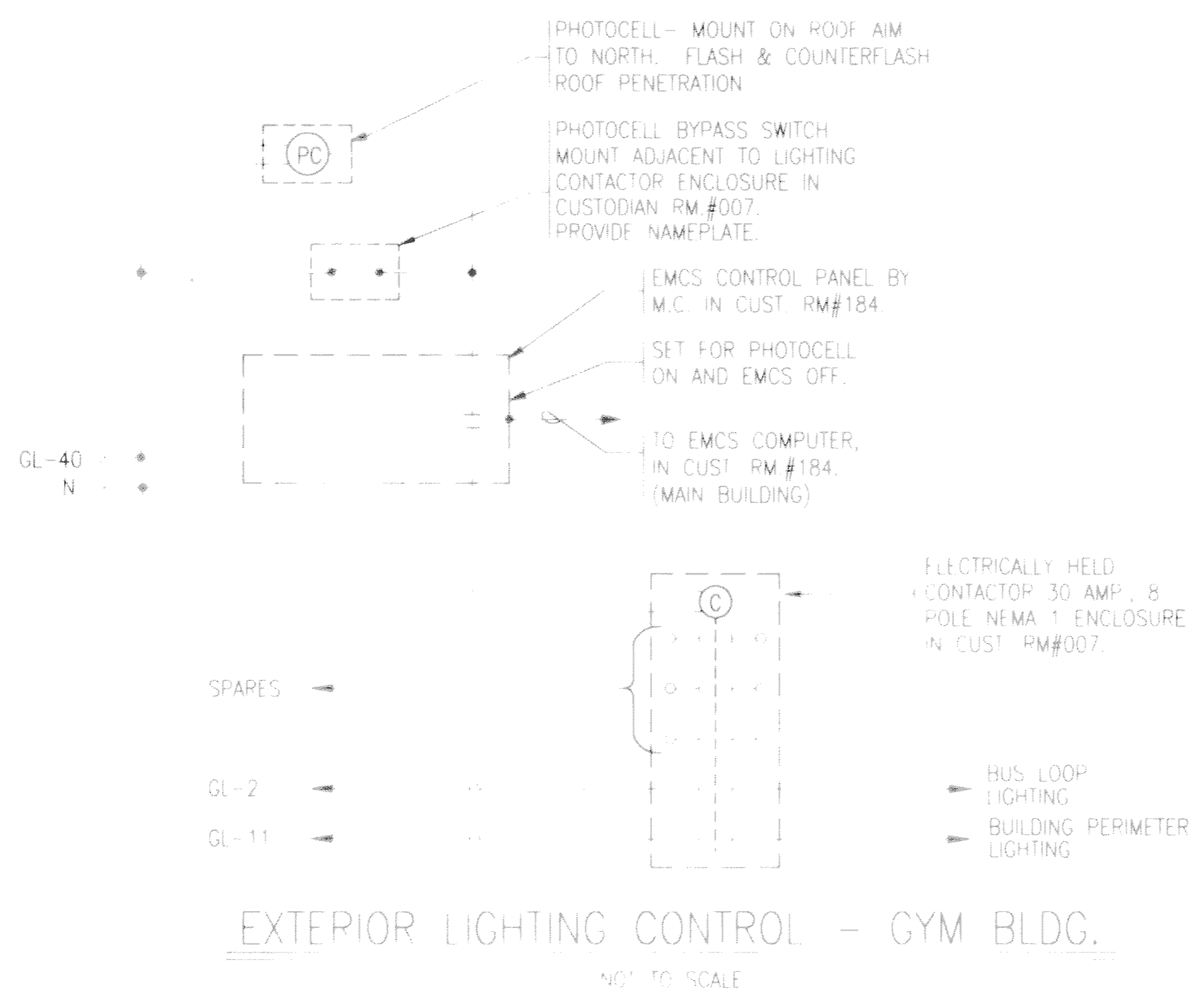
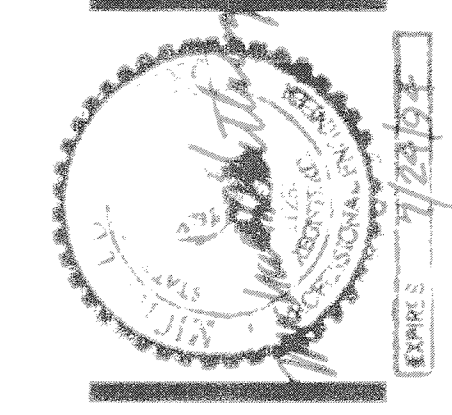


WESTSIDE MIDDLE SCHOOL
 OLYMPIA SCHOOL DISTRICT
 ERICKSON MCGOVERN ARCHITECTS 120 SO. 131 ST., TACOMA WA. 98444 (206) 531-0206

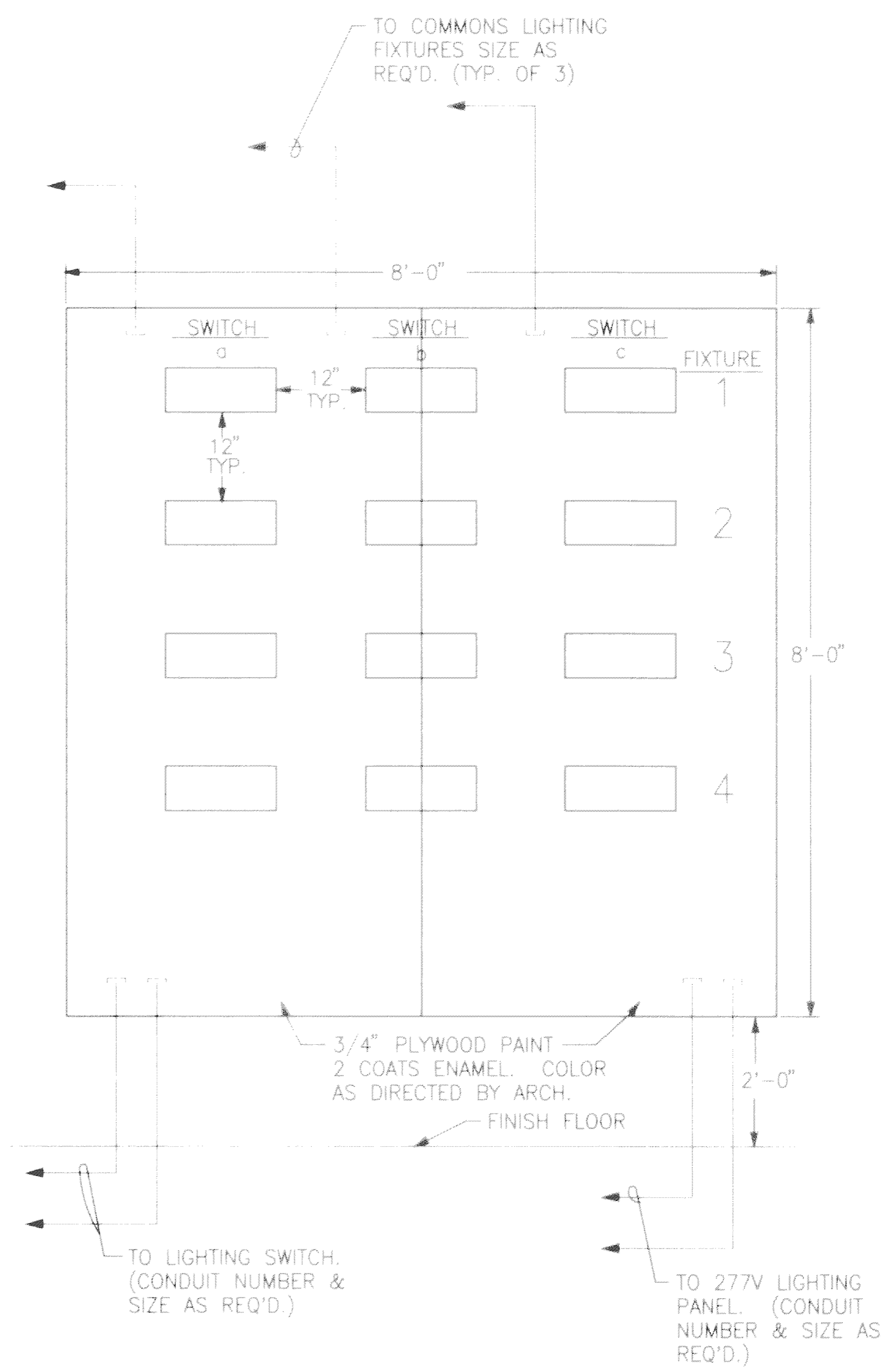
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COMM. REV.
 DRAWN DMN
 DATE 5/7/93

SHIT
E5.6
 OF



CONCRETE BASE FOR FIXTURES
AH-1, AH-2, AH-3 & AH-4
NOT TO SCALE



REMOTE BALLAST MOUNTING DETAIL
NOT TO SCALE

- NOTES:
- WIRE BALLASTS & SWITCHING PER MANUFACTURERS REQUIREMENTS.
 - CONDUIT SIZES & NUMBER OF RUNS SHALL BE AS REQUIRED PER CODE.
 - SEE SHT. E3.4 FOR LOCATION.

DETAILS / DIAGRAMS

WESTSIDE MIDDLE SCHOOL
OLYMPIA SCHOOL DISTRICT

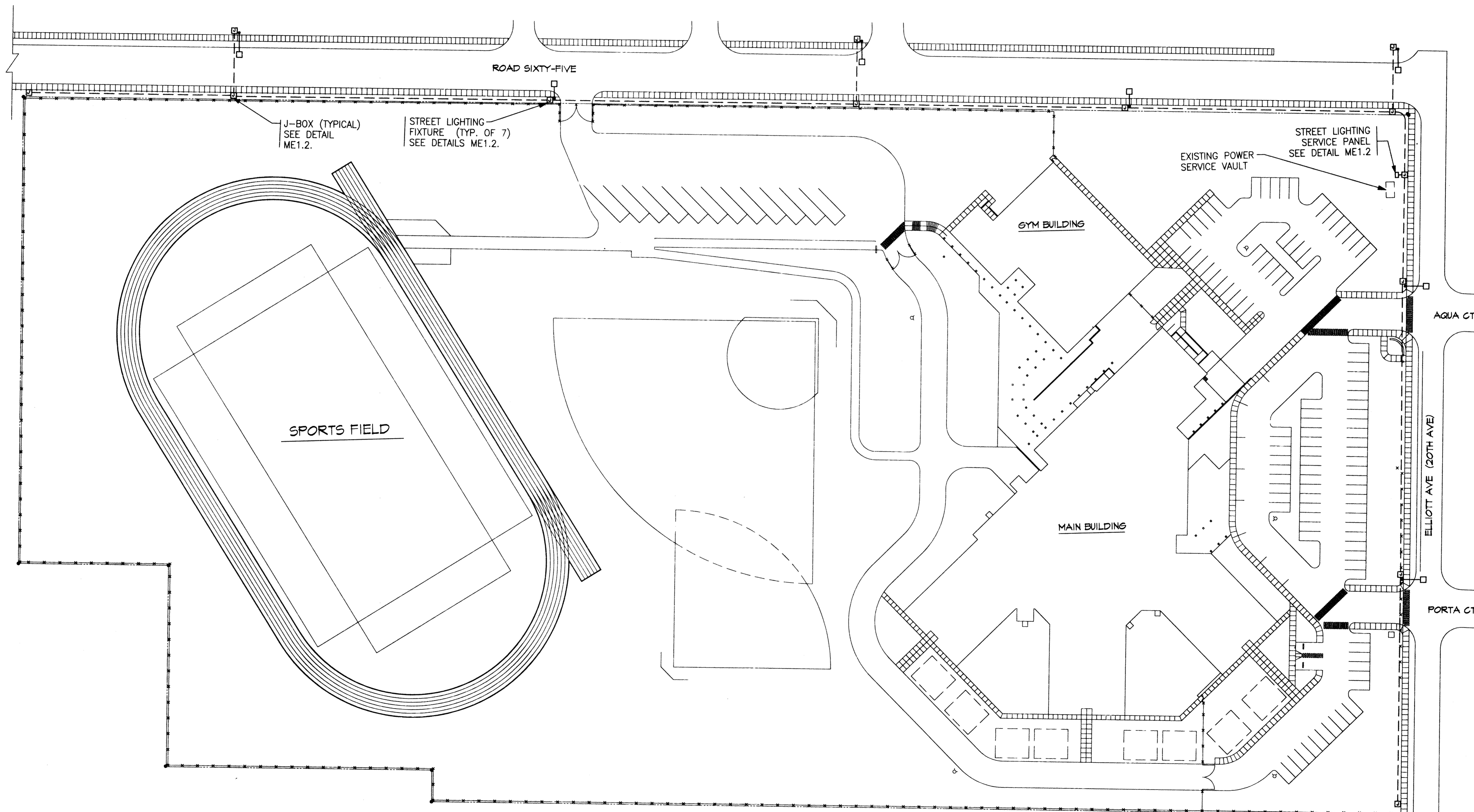
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DRAWN DMN DATE 5/7/93

SHT E3.7 OF




SITE PLAN
 SCALE 1" = 50'-0"

AS BUILT

WESTSIDE MIDDLE SCHOOL
 OLYMPIA SCHOOL DISTRICT
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SHT E107 OF