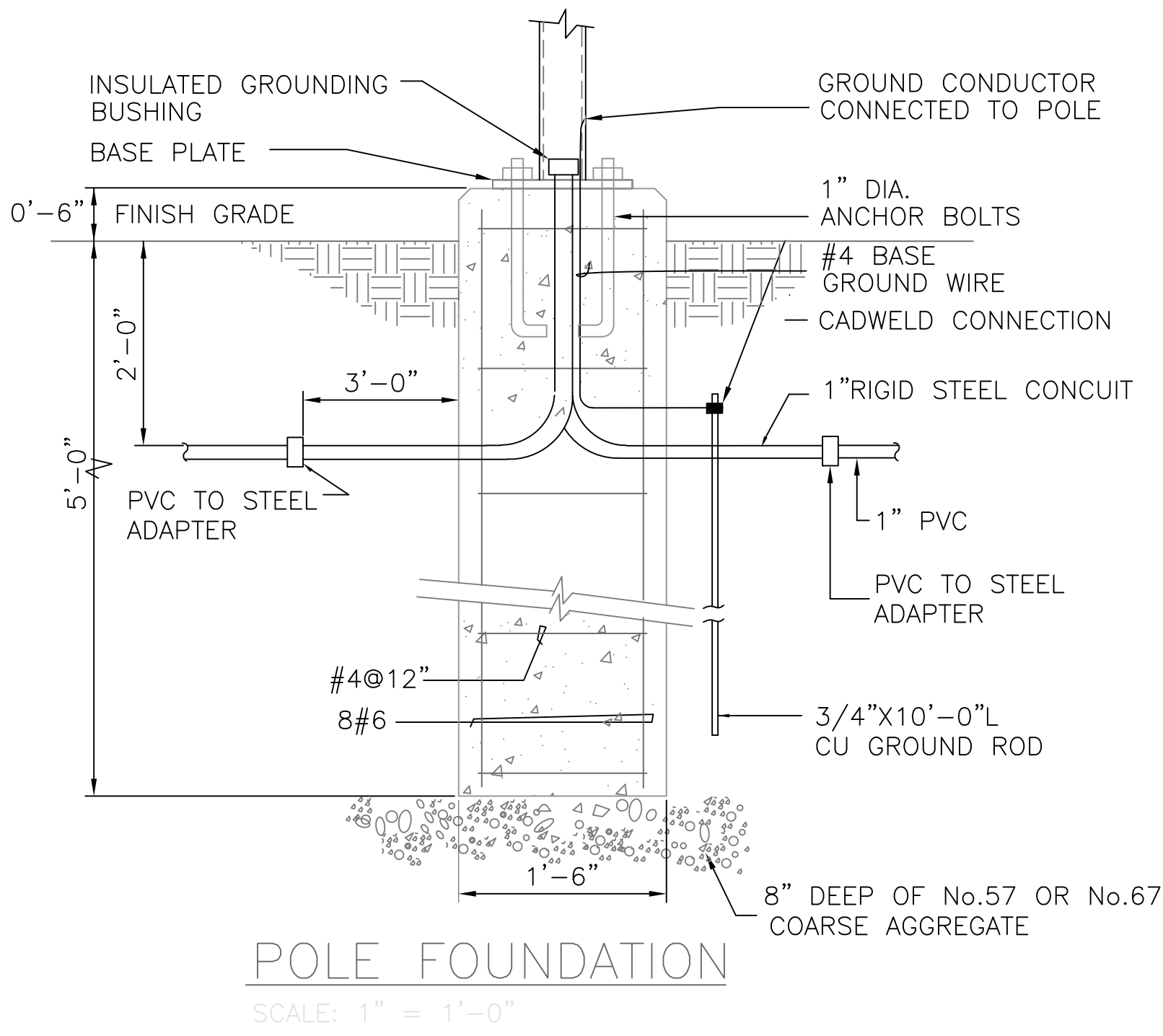
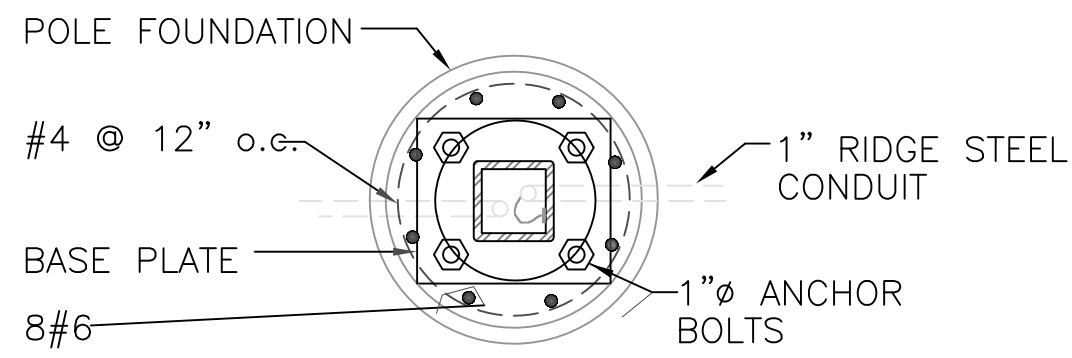


## 1 DETAIL FOR OCCUPANCY SENSOR

E302 / N.T.S.

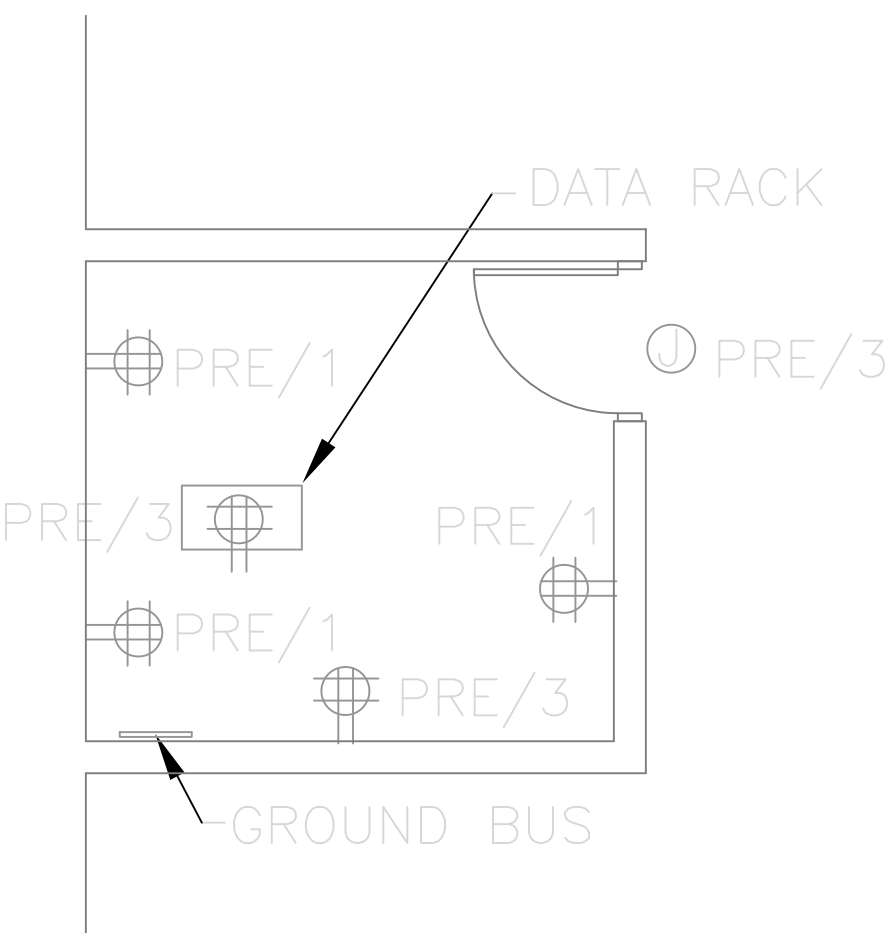
CEILING MOUNTED OCCUPANCY SENSORS

- OCCUPANCY SWITCH SHALL UTILIZE DUAL TECHNOLOGY FEATURES, HAVE 360 DEGREES OF ROOM COVERAGE AND PROVIDE COMPLETE COVERAGE OF THE ROOM. DUAL TECHNOLOGY IS DEFINED AS PASSIVE INFRARED (PIR) AND SONIC.
- THE OCCUPANCY SWITCH SHALL BE PROGRAMMABLE TO TURN LIGHTS OFF AFTER A PRESET TIME OF NO OCCUPANCY SENSED.
- OCCUPANCY SWITCH SHALL BE COMPATIBLE WITH ALL ELECTRONIC BALLAST AND COMPACT FLUORESCENT.
- OCCUPANCY SWITCH SHALL OPERATE AT UNIVERSAL VOLTAGES OF 100-300 VAC, 60Hz.
- OCCUPANCY SWITCH SHALL HAVE NO MINIMUM LOAD REQUIREMENT.
- COLOR SHALL BE WHITE.
- ACCEPTABLE MANUFACTURERS:
  - WATTSSTOPPER
  - SENSOR SWITCH
  - NOVITAS.
- OCCUPANCY SENSOR LOCATED IN EACH CLASSROOM TO CONTROL LIGHTING FIXTURE TYPE A.

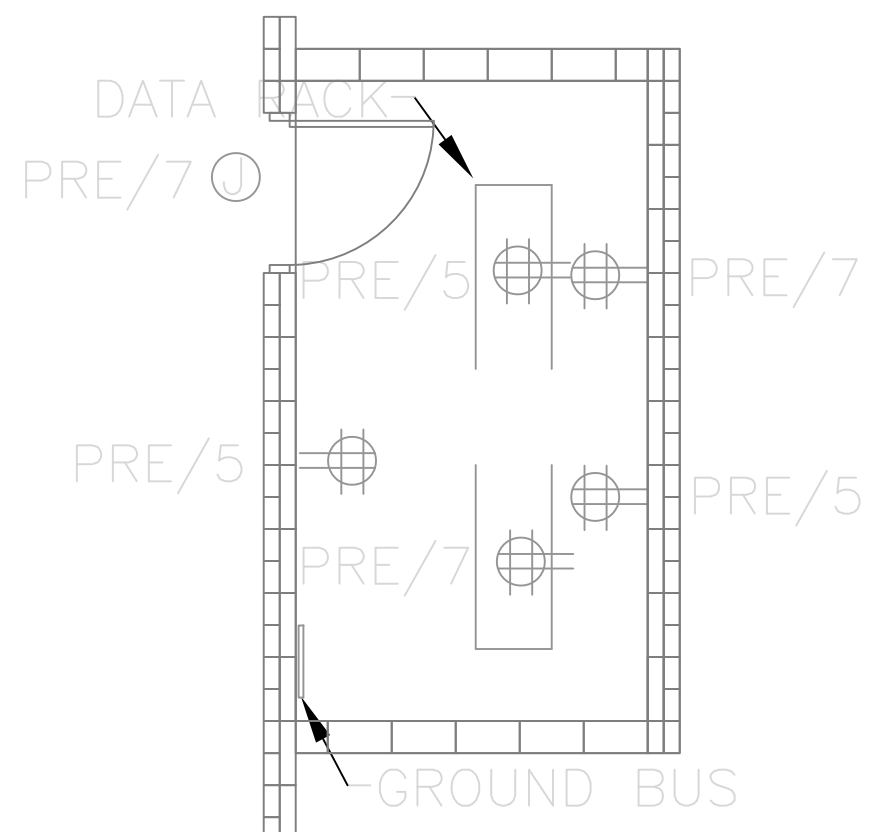


## 6 FIXTURE TYPE SA MOUNTING DETAIL

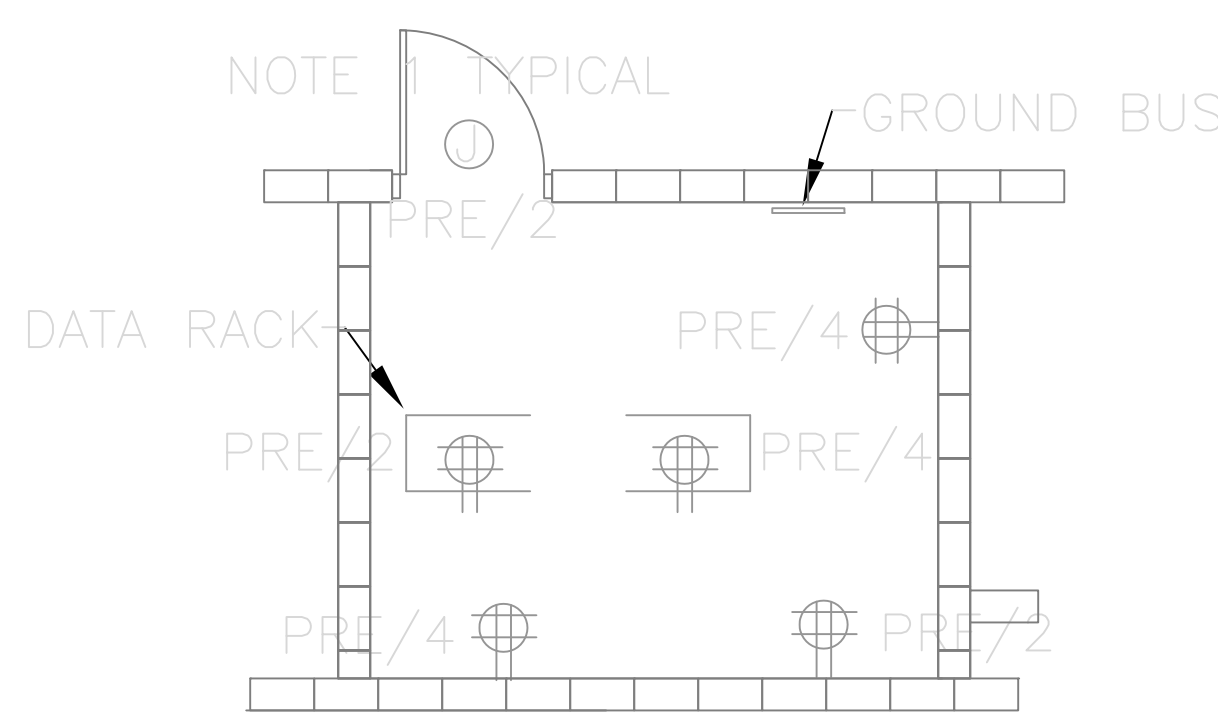
E302 / 1/4"



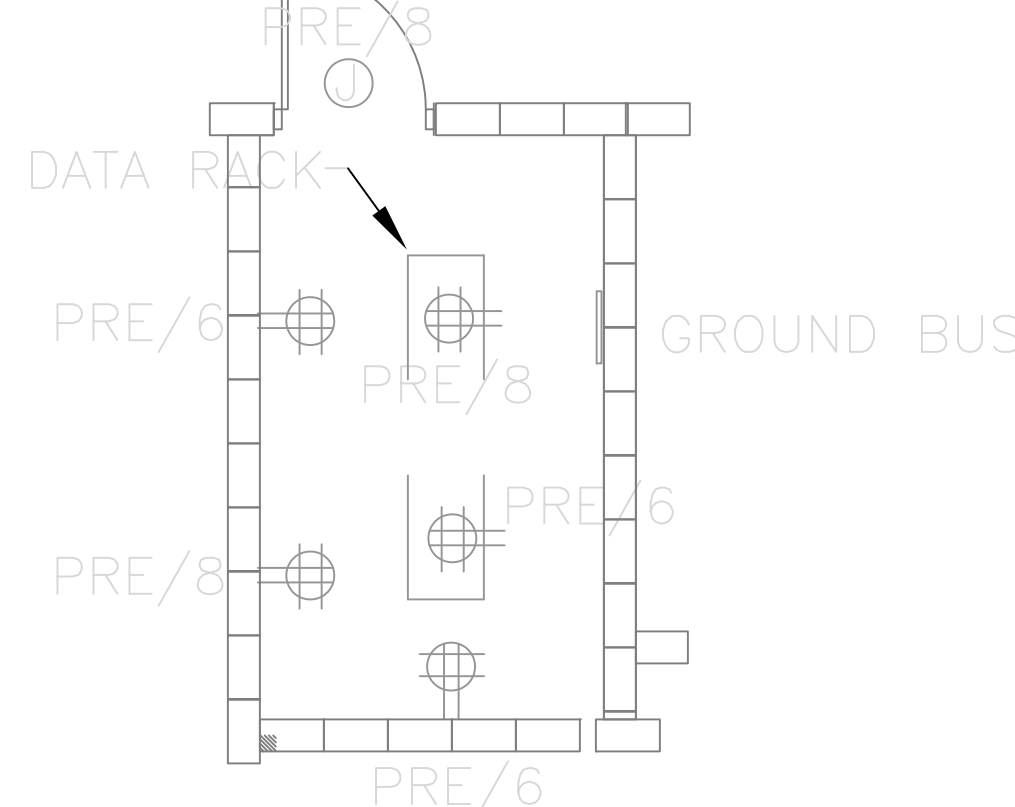
FRAME ROOM 003-POWER LAYOUT



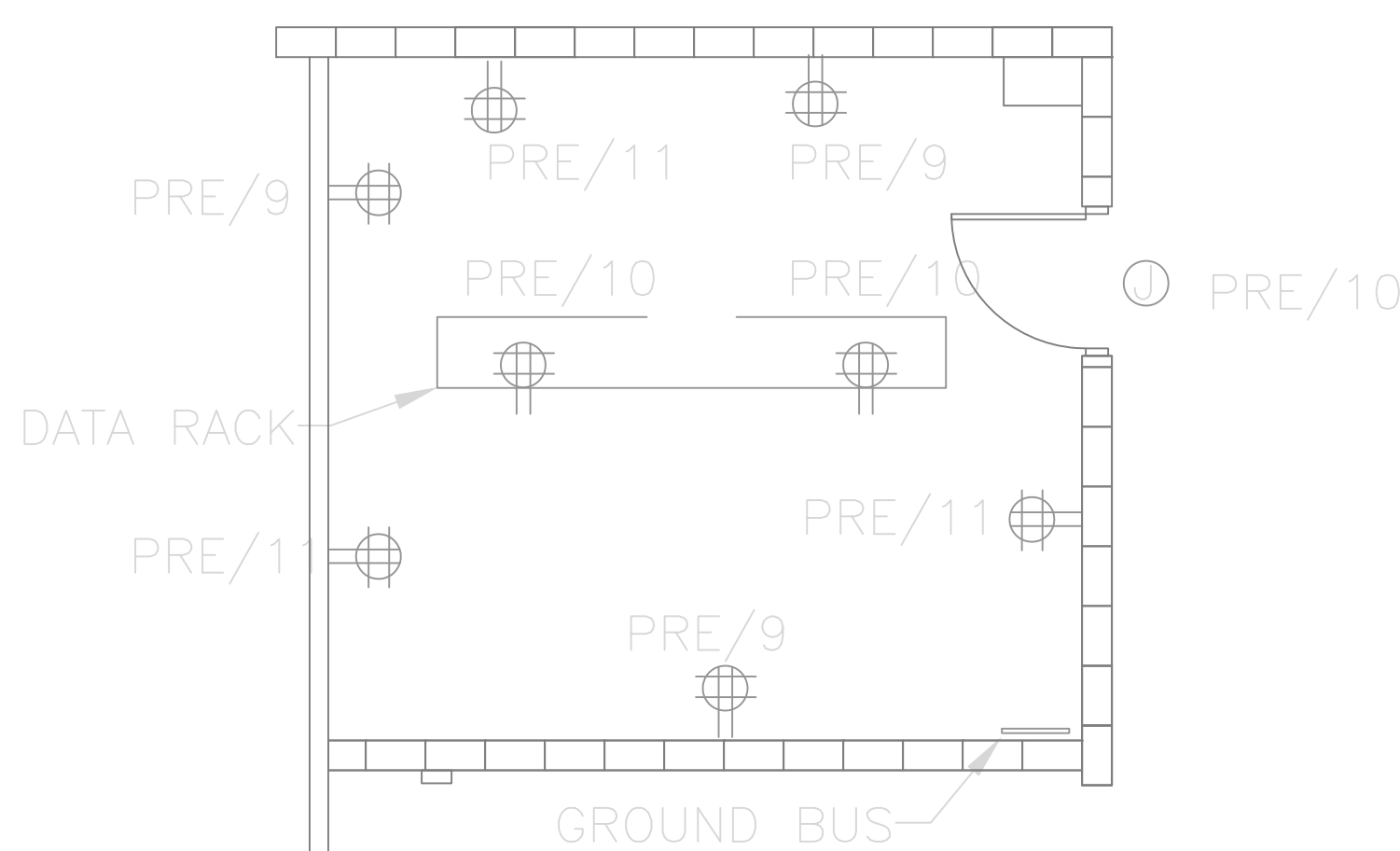
IDF ROOM 117 - POWER LAYOUT



IDF ROOM 223 - POWER LAYOUT



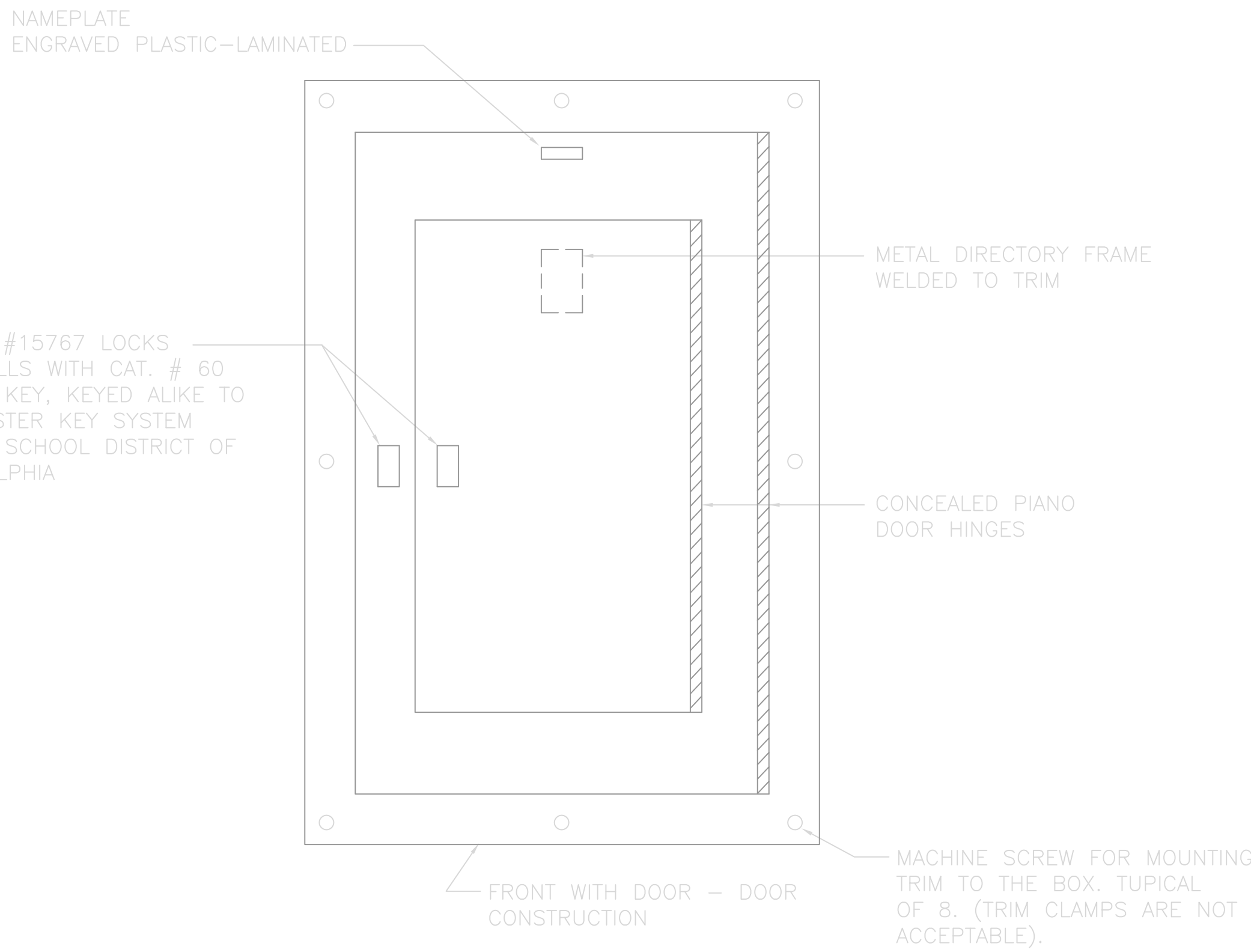
IDF ROOM 325 - POWER LAYOUT



MDF AND SERVER ROOM 403 - POWER LAYOUT

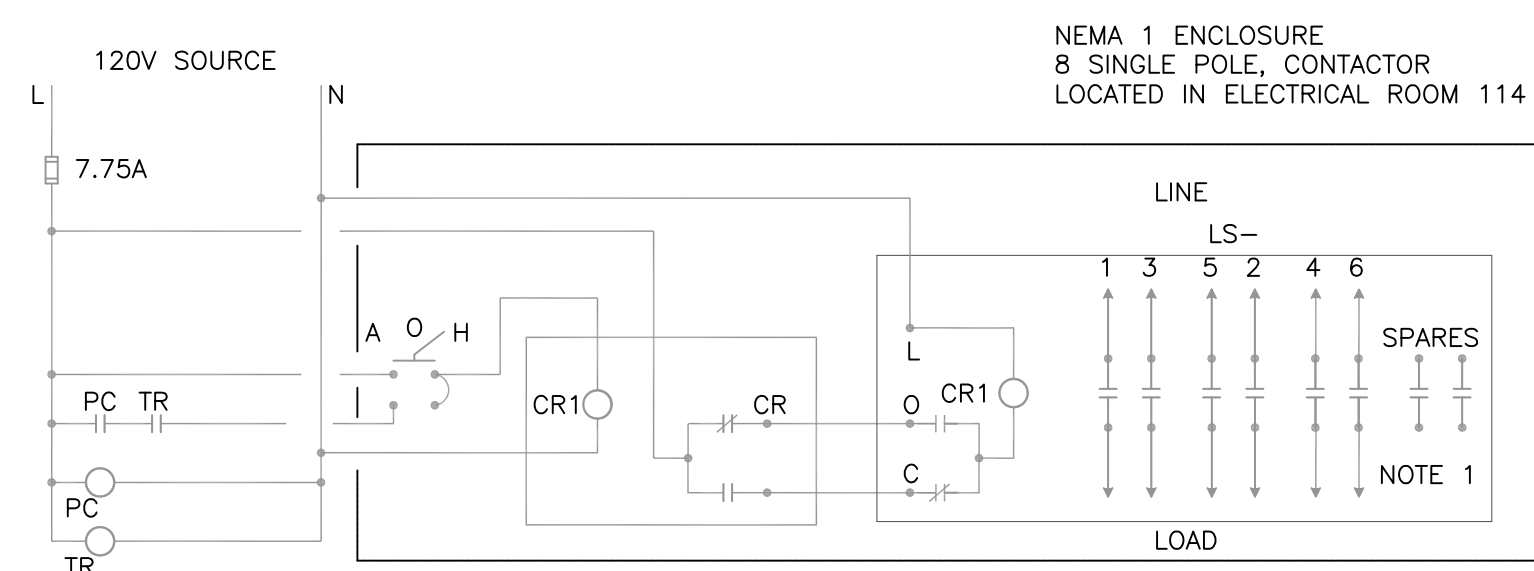
## 5 DATA ROOM LAYOUT

E302 / 1/4"=1'-0"



## 2 PANELBOARD FRONT STANDARD DETAIL

E302 / N.T.S.



NOTE 1:

AREA LIGHTING CONTROL PANEL

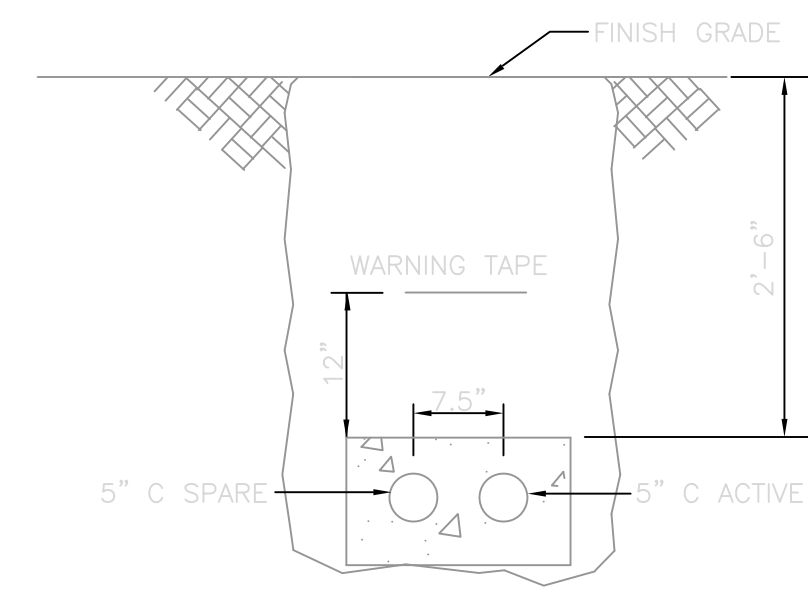
ASCO MODEL 641A, 120 VOLT CONTROL, HAND-OFF-AUTOMATIC SWITCH, WITH REMOTE PHOTOCELL CONTROL AND 24 HR TIMER MOUNTED IN A NEMA 1 ENCLOSURE. CONTACTOR SHALL BE A ASCO MODEL 641 ELECTRICALLY OPERATED MECHANICALLY HELD LIGHTING CONTACTOR RATED 30 AMPERES TO 600 VOLTS, 8 POLES.

CONTROL SEQUENCE

POSITION	OPERATION
HAND	ASCO 917 CONTACTS CLOSED-LIGHTS "ON"
OFF	ASCO 917 CONTACTS OPEN - LIGHTS "OFF"
AUTOMATIC	TIME CLOCK OPERATES 917 TO CLOSE CONTACTS AT PRESET TIME, ONLY WHEN PHOTOCELL INDICATES NEED FOR LIGHTING. TIME CLOCK OPERATES 917 TO OPEN CONTACTS AT PRESET TIME, FOR LIGHTING TO TURN OFF.
PHOTOCELL	PHOTOCELL SWITCH PREVENTS SYSTEM FROM OPERATING DURING DAYLIGHT WHEN IN AUTOMATIC MODE.

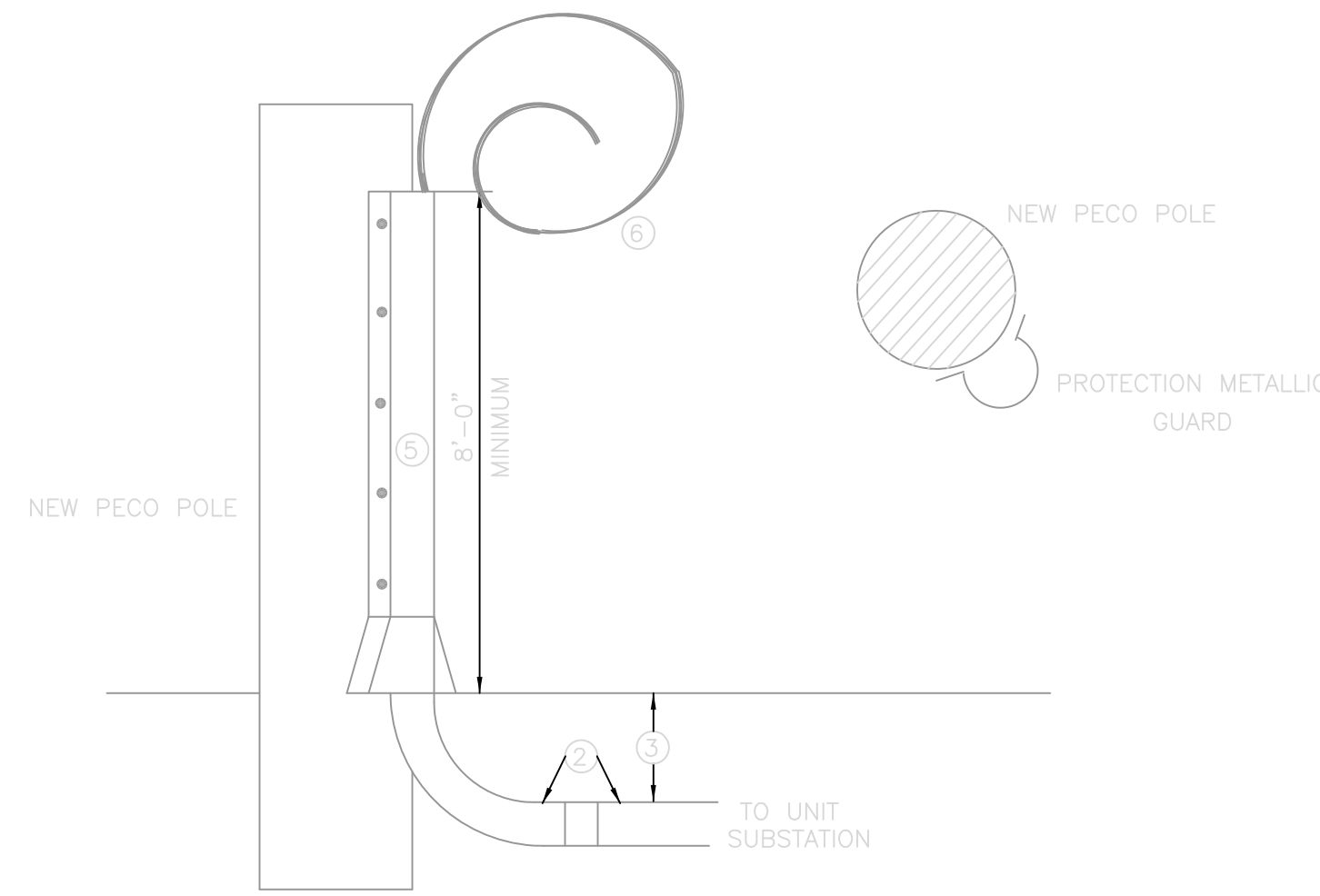
## 7 EXTERIOR LIGHTING CONTROL SCHEMATIC

E302



## 5 DETAIL

E302 / N.T.S.



## 6 TYPICAL UNDERGROUND

E302

ITEM	13KV
1 SPULCE BOX	NOT REQUIRED
2 CONDUIT	1-5" RMC FOR NORMAL SERVICE 1-5" RMC FOR FIRE PUMP SERVICE
3 DEPTH	30" MINIMUM
4 RADIUS	30" MINIMUM
5 PROTECTION METALLIC GUARD	METALLIC GUARD
6 CABLE ON POLE	CABLE SHALL BE SECURELY FASTENED TO PECO'S POLE AND OF SUFFICIENT LENGTH TO PERMIT THE CONNECTION TO PECO'S CONDUCTORS. PECO WILL CONNECT THE CABLES ON THE POLE TO THERE CONDUCTORS AND ASSUME OWNERSHIP OF FACILITIES ON IT'S SIDE OF THE SERVICE POINT.

WORKING HARDER FOR  
CHILDREN AND FAMILIES  
SCHOOL DISTRICT OF PHILADELPHIA

SEAL

DOUG BARNETT + ASSOCIATES ARCHITECTS

1000 CHESTNUT STREET PHILADELPHIA, PENNSYLVANIA 19106  
215.751.8001 www.dougarnett.com

THE SHAW-WHITE PARTNERSHIP ARCHITECTS

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Wickham - Ziegler Group, LLC

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CSA CENTRAL, INC.

1341 North Delaware Ave., Ste. 500 Philadelphia, PA 19102  
(215) 425-2500 www.csa-central.com

E&M ENGINEERING, INC.

200 FREEDOM AVE. STE. 400 HARTFORD, CT 06103  
(203) 540-4000 www.em-engineering.com

SCHOOL & LOCATION  
Commodore John Barry Elementary School  
5900 Race Street Philadelphia PA 19139

PROJECT TITLE  
NEW CONSTRUCTION

DRAWING TITLE  
DETAILS

APPROVED BY

SCHOOL DISTRICT OF PHILADELPHIA  
THE SCHOOL REFORM COMMISSION

DEPARTMENT OF DESIGN AND CONSTRUCTION SERVICES

440 N. BROAD STREET  
PHILADELPHIA, PA 19130  
(215) 686-1700 FAX (215) 404-4751

CONTRACTOR TO VERIFY ALL CONDITIONS AND DIMENSIONS AT SITE

NO.	DATE	REVISION
9		
8		
7		
6		
5		
4		
3		
2		
1		

SPEC. NO. B-840C of 2005/06

DATE 12/29/06

SCALE 1/8"=1'-0"

LOCATION NO. 120

DRAWN BY CDM

TYPE NO. -

CHECKED BY XXX

FILE NO. 00

DRAWING NO.

E302