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TAGGED NOTES

L3	MAIN LIGHTING CONTROL STATION/CONSOLE AND TOUCHSCREEN FOR THEATRICAL LIGHTING. REFER TO THEATRICAL LIGHTING DIAGRAM FOR ADDITIONAL INFORMATION.
L10	CONSOLE RECEPTACLE STATION FOR THEATRICAL LIGHTING CONTROLS. REFER TO THEATRICAL LIGHTING CONTROL DIAGRAM FOR ADDITIONAL INFORMATION.
L11	CONNECT CIRCUIT TO OTHER FIXTURES IN THIS STAIRWELL THAT ARE ABOVE/BELOW.
L14	125 WATT, 277V, MINI-INVERTER FOR BATTERY BACKUP OF DOWNLIGHT IN TYPE M1E AND N2E FIXTURES. LOCATE ABOVE LAY IN CEILING AND PROVIDE REMOTE TEST SWITCH.
L16	SWITCHES FOR CONTROL OF LIGHTING ARE LOCATED ON THE FIRST FLOOR.
L32	CONTROLLED FROM SWITCH ON FIRST FLOOR, REFER TO SHEET EL111.

LIGHTING CONTROLS SEQUENCE OF OPERATIONS

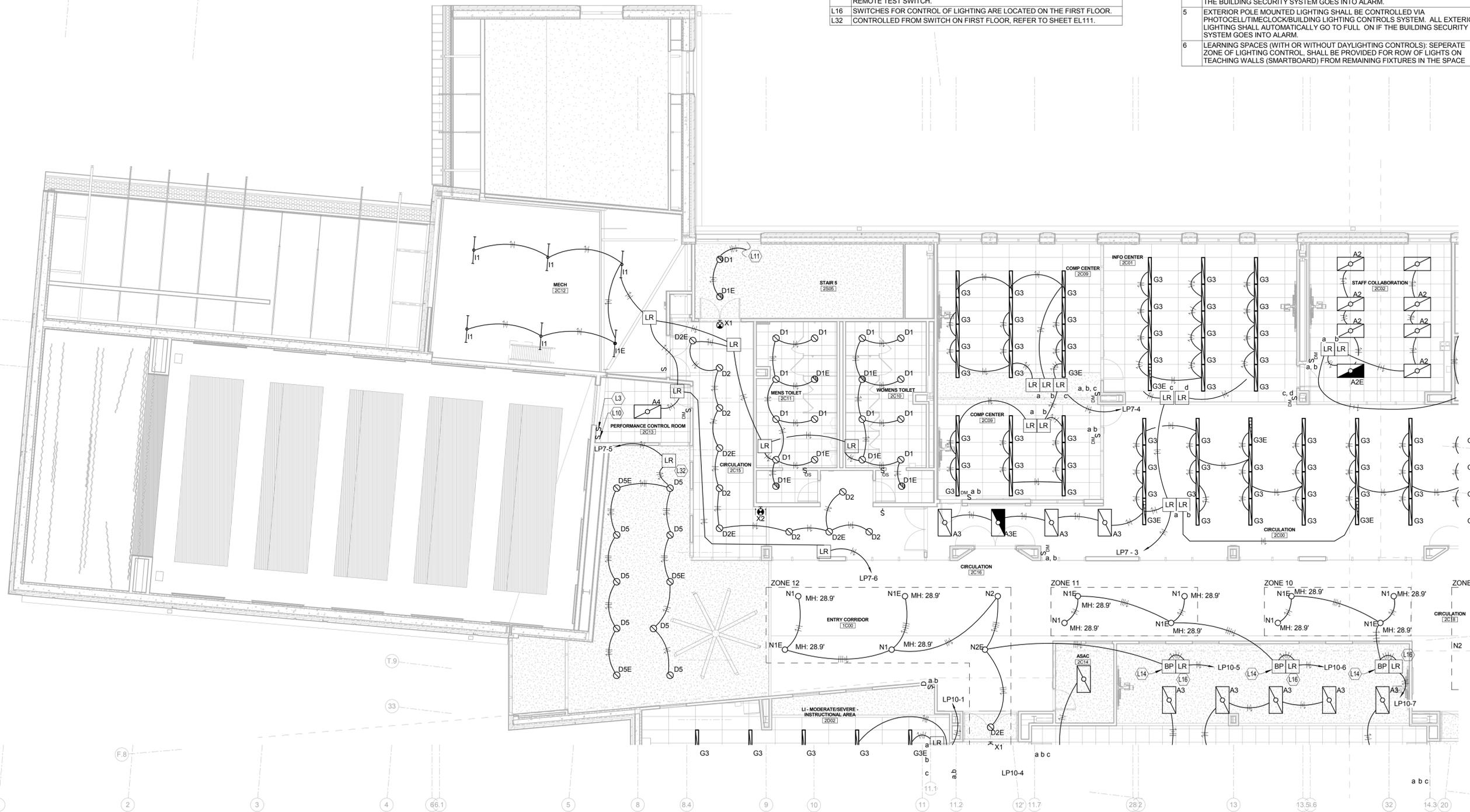
1	OCCUPANCY SENSORS SHALL TURN LIGHTING ON 50% UPON ENTERING ROOM AND SHALL TURN LIGHTING ON 100% MANUALLY.
2	OCCUPANCY SENSORS SHALL TURN LIGHTING ON 15 MINUTES UPON EXITING ROOM. TIME LIMIT SHALL BE ADJUSTABLE.
3	ALL SPACES SHALL BE PROVIDED WITH MEANS TO MANUALLY OVERRIDE CONTROLS.
4	EXTERIOR BUILDING MOUNTED LIGHTING SHALL BE CONTROLLED VIA PHOTOCELL/TIMECLOCK/BUILDING LIGHTING CONTROLS SYSTEM/ MOTION SENSORS. ALL EXTERIOR LIGHTING SHALL AUTOMATICALLY GO TO FULL ON IF THE BUILDING SECURITY SYSTEM GOES INTO ALARM.
5	EXTERIOR POLE MOUNTED LIGHTING SHALL BE CONTROLLED VIA PHOTOCELL/TIMECLOCK/BUILDING LIGHTING CONTROLS SYSTEM. ALL EXTERIOR LIGHTING SHALL AUTOMATICALLY GO TO FULL ON IF THE BUILDING SECURITY SYSTEM GOES INTO ALARM.
6	LEARNING SPACES (WITH OR WITHOUT DAYLIGHTING CONTROLS): SEPERATE ZONE OF LIGHTING CONTROL. SHALL BE PROVIDED FOR ROW OF LIGHTS ON TEACHING WALLS (SMARTBOARD) FROM REMAINING FIXTURES IN THE SPACE

D

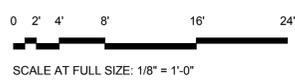
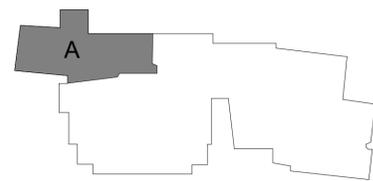
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B

A



SECOND FLOOR AREA A - LIGHTING



APPR	DATE
SYM	DESCRIPTION
  EWING COLE Federal Reserve Bank Building 100 North 6th Street Philadelphia, PA 19106-1500 Tel: 215-923-2020 Fax: 215-574-0822	
AE INFO	
APPROVED	
FOR COMMANDER NAVFAC ACTIVITY	
SATISFACTORY TO	DATE
BWR	KDM
PKDM	BKB
BRANCH MANAGER	
CHIEF ENGR ARCH	
FIRE PROTECTION	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON DDOEA MARINE CORPS BASE QUANTICO, VIRGINIA QUANTICO, VA REPLACE QUANTICO M/H SCHOOL SECOND FLOOR - AREA 'A' - LIGHTING	
SCALE:	1/8" = 1'-0"
PROJECT NO.:	P-021
CONSTR. CONTR. NO.:	W91236-15-C-0023
NAVFAC DRAWING NO.:	13091391
SHEET	637 OF 789
EL121	
DRAWING REVISION: 10 MARCH 2020	

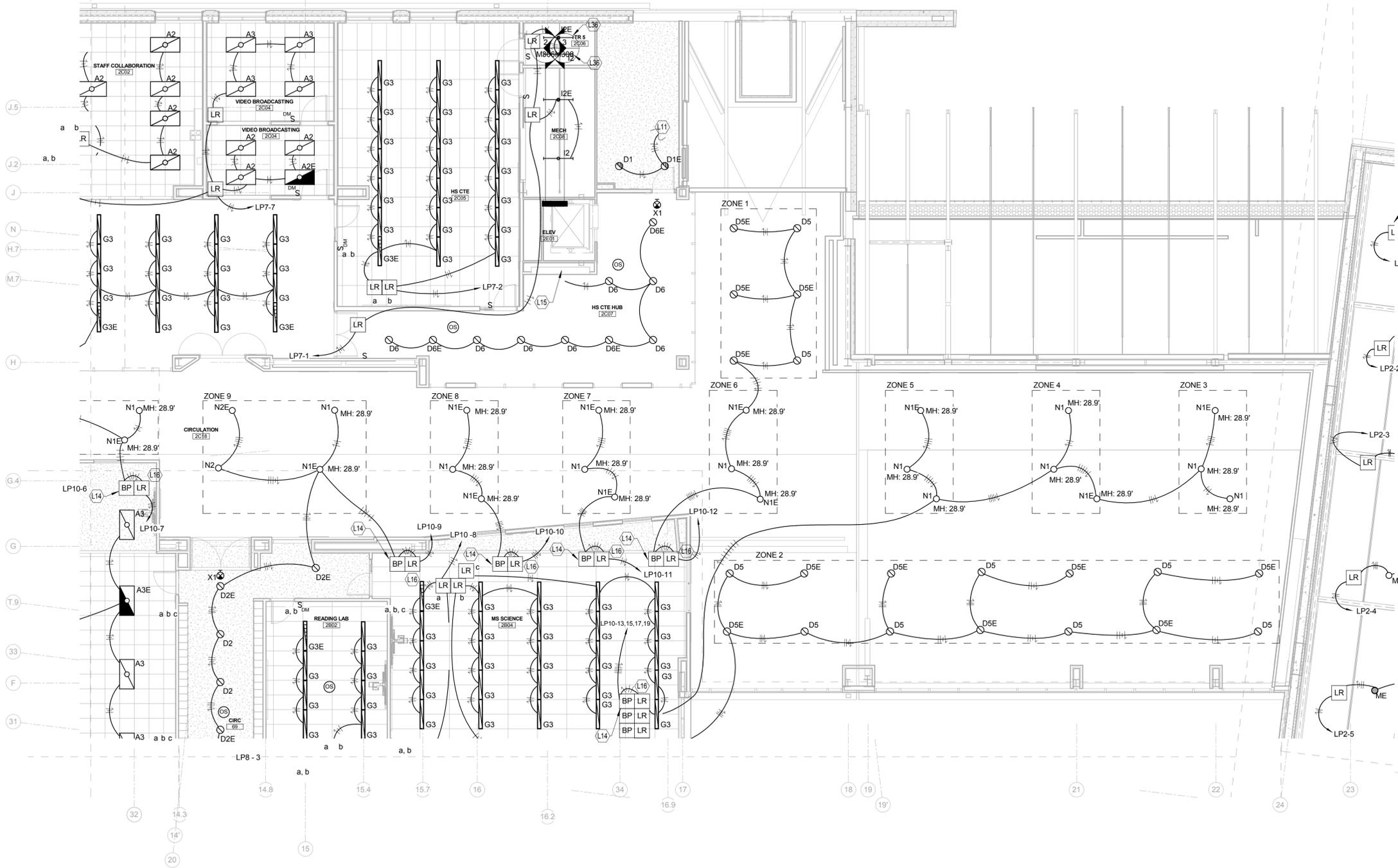
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D

C

B

A



LIGHTING CONTROLS SEQUENCE OF OPERATIONS	
1	OCCUPANCY SENSORS SHALL TURN LIGHTING ON 50% UPON ENTERING ROOM AND SHALL TURN LIGHTING ON 100% MANUALLY.
2	OCCUPANCY SENSORS SHALL TURN LIGHTING ON 15 MINUTES UPON EXITING ROOM. TIME LIMIT SHALL BE ADJUSTABLE.
3	ALL SPACES SHALL BE PROVIDED WITH MEANS TO MANUALLY OVERRIDE CONTROLS.
4	EXTERIOR BUILDING MOUNTED LIGHTING SHALL BE CONTROLLED VIA PHOTOCELL/TIMECLOCK/BUILDING LIGHTING CONTROLS SYSTEM. MOTION SENSORS. ALL EXTERIOR LIGHTING SHALL AUTOMATICALLY GO TO FULL ON IF THE BUILDING SECURITY SYSTEM GOES INTO ALARM.
5	EXTERIOR POLE MOUNTED LIGHTING SHALL BE CONTROLLED VIA PHOTOCELL/TIMECLOCK/BUILDING LIGHTING CONTROLS SYSTEM. ALL EXTERIOR LIGHTING SHALL AUTOMATICALLY GO TO FULL ON IF THE BUILDING SECURITY SYSTEM GOES INTO ALARM.
6	LEARNING SPACES (WITH OR WITHOUT DAYLIGHTING CONTROLS): SEPERATE ZONE OF LIGHTING CONTROL. SHALL BE PROVIDED FOR ROW OF LIGHTS ON TEACHING WALLS (SMARTBOARD) FROM REMAINING FIXTURES IN THE SPACE

TAGGED NOTES	
L11	CONNECT CIRCUIT TO OTHER FIXTURES IN THIS STAIRWELL THAT ARE ABOVE/BELOW.
L14	125 WATT, 277V, MINI-INVERTER FOR BATTERY BACKUP OF DOWNLIGHT IN TYPE N1E AND N2E FIXTURES. LOCATE ABOVE LAY IN CEILING AND PROVIDE REMOTE TEST SWITCH.
L15	CONNECT TO DISPLAY CASE LIGHTS (BY OTHERS).
L16	SWITCHES FOR CONTROL OF LIGHTING ARE LOCATED ON THE FIRST FLOOR.
L29	CONTROL LIGHTS FROM SWITCHES ON FIRST FLOOR. REFER TO SHEET EL 113 FOR LOCATIONS.
L36	10' AFF (SHALL BE AT LEAST 3" HIGHER THAN CABLE TRAY).

DATE
APPR

DESCRIPTION
SYM

Federal Reserve Bank Building
100 North 6th Street
Philadelphia, PA 19106-1500
Tel: 215-923-2020 Fax: 215-574-0852

AE INFO

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FOR COMMANDER NAVFAC
ACTIVITY

SATISFACTORY TO DATE

BWR KDM BKB

PM/DM

BRANCH MANAGER

CHIEF ENGR ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON
DODEA
MARINE CORPS BASE QUANTICO, VIRGINIA
QUANTICO, VA

REPLACE QUANTICO M/H SCHOOL

SECOND FLOOR - AREA B - LIGHTING

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

PROJECT NO.: P-021

CONSTR. CONTR. NO.
W91236-15-C-0023

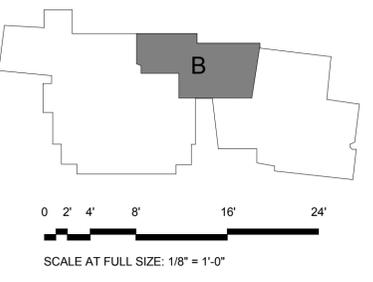
NAVFAC DRAWING NO.
13091392

SHEET 638 OF 789

EL122

DRAWING REVISION: 10 MARCH 2020

PLAN NORTH
SECOND FLOOR AREA B - LIGHTING



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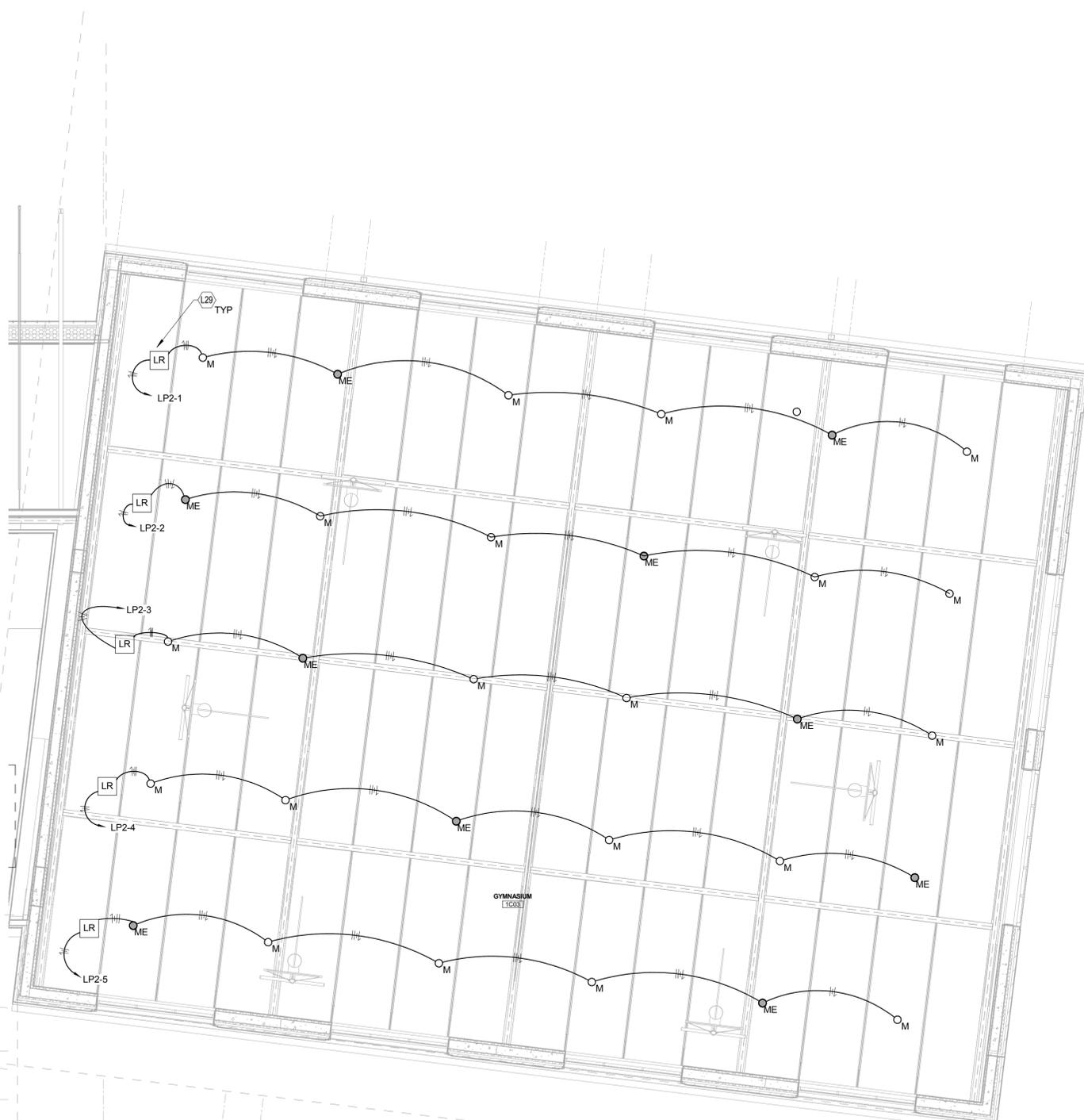
D

C

B

A

MH: 28.9'



LIGHTING CONTROLS SEQUENCE OF OPERATIONS	
1	OCCUPANCY SENSORS SHALL TURN LIGHTING ON 50% UPON ENTERING ROOM AND SHALL TURN LIGHTING ON 100% MANUALLY.
2	OCCUPANCY SENSORS SHALL TURN LIGHTING ON 15 MINUTES UPON EXITING ROOM. TIME LIMIT SHALL BE ADJUSTABLE.
3	ALL SPACES SHALL BE PROVIDED WITH MEANS TO MANUALLY OVERRIDE CONTROLS.
4	EXTERIOR BUILDING MOUNTED LIGHTING SHALL BE CONTROLLED VIA PHOTOCELL/TIMECLOCK/BUILDING LIGHTING CONTROLS SYSTEM MOTION SENSORS. ALL EXTERIOR LIGHTING SHALL AUTOMATICALLY GO TO FULL ON IF THE BUILDING SECURITY SYSTEM GOES INTO ALARM.
5	EXTERIOR POLE MOUNTED LIGHTING SHALL BE CONTROLLED VIA PHOTOCELL/TIMECLOCK/BUILDING LIGHTING CONTROLS SYSTEM. ALL EXTERIOR LIGHTING SHALL AUTOMATICALLY GO TO FULL ON IF THE BUILDING SECURITY SYSTEM GOES INTO ALARM.
6	LEARNING SPACES (WITH OR WITHOUT DAYLIGHTING CONTROLS); SEPERATE ZONE OF LIGHTING CONTROL. SHALL BE PROVIDED FOR ROW OF LIGHTS ON TEACHING WALLS (SMARTBOARD) FROM REMAINING FIXTURES IN THE SPACE

TAGGED NOTES
 L29 CONTROL LIGHTS FROM SWITCHES ON FIRST FLOOR. REFER TO SHEET EL113 FOR LOCATIONS.

SYD	DESCRIPTION	DATE	APPR



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SATISFACTORY TO	DATE
BWR	KDM
PRMCM	BKB

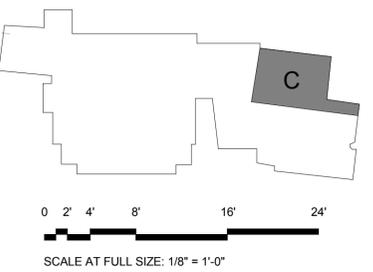
BRANCH MANAGER
 CHIEF ENO ARCH
 FIRE PROTECTION

DEPARTMENT OF THE NAVY
 NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON DDC6A
 NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON DDC6A
 MARINE CORPS BASE QUANTICO, VIRGINIA
 QUANTICO, VA

REPLACE QUANTICO M/H SCHOOL

SECOND FLOOR - AREA C - LIGHTING

SCALE: 1/8" = 1'-0"
 PROJECT NO.: P-021
 CONSTR. CONTR. NO.: W91236-15-C-0023
 NAVFAC DRAWING NO.: 13091393
 SHEET 639 OF 789
 EL123



PLAN NORTH
SECOND FLOOR AREA C - LIGHTING

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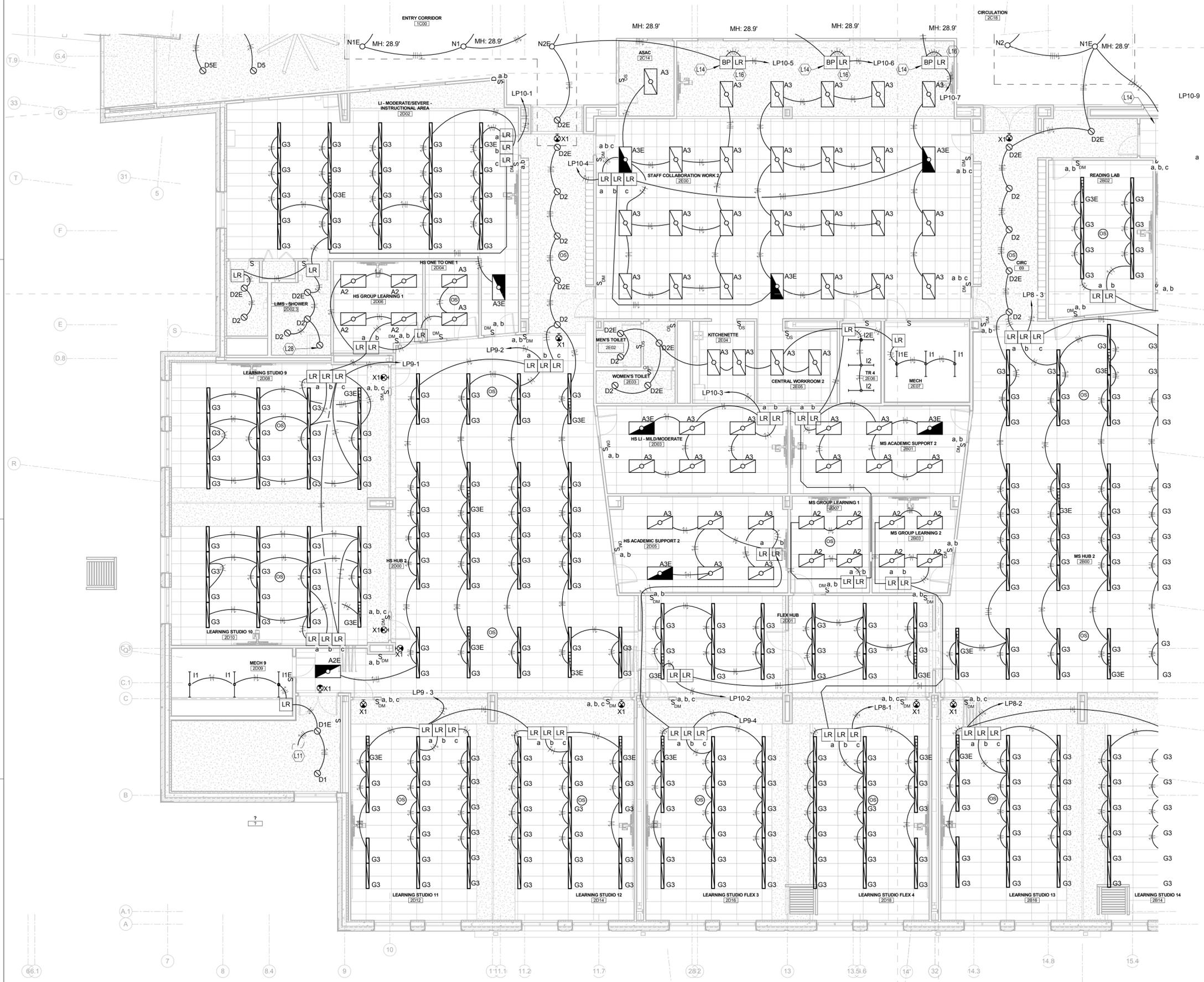
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LIGHTING CONTROLS SEQUENCE OF OPERATIONS

- OCCUPANCY SENSORS SHALL TURN LIGHTING ON 50% UPON ENTERING ROOM AND SHALL TURN LIGHTING ON 100% MANUALLY.
- OCCUPANCY SENSORS SHALL TURN LIGHTING ON 15 MINUTES UPON EXITING ROOM. TIME LIMIT SHALL BE ADJUSTABLE.
- ALL SPACES SHALL BE PROVIDED WITH MEANS TO MANUALLY OVERRIDE CONTROLS.
- EXTERIOR BUILDING MOUNTED LIGHTING SHALL BE CONTROLLED VIA PHOTOCELL/TIMECLOCK/BUILDING LIGHTING CONTROLS SYSTEM/ MOTION SENSORS. ALL EXTERIOR LIGHTING SHALL AUTOMATICALLY GO TO FULL ON IF THE BUILDING SECURITY SYSTEM GOES INTO ALARM.
- EXTERIOR POLE MOUNTED LIGHTING SHALL BE CONTROLLED VIA PHOTOCELL/TIMECLOCK/BUILDING LIGHTING CONTROLS SYSTEM. ALL EXTERIOR LIGHTING SHALL AUTOMATICALLY GO TO FULL ON IF THE BUILDING SECURITY SYSTEM GOES INTO ALARM.
- LEARNING SPACES (WITH OR WITHOUT DAYLIGHTING CONTROLS); SEPARATE ZONE OF LIGHTING CONTROL SHALL BE PROVIDED FOR ROW OF LIGHTS ON TEACHING WALLS (SMARTBOARD) FROM REMAINING FIXTURES IN THE SPACE

TAGGED NOTES

- CONNECT CIRCUIT TO OTHER FIXTURES IN THIS STAIRWELL THAT ARE ABOVE/BELOW.
- 125 WATT, 277V, MINI-INVERTER FOR BATTERY BACKUP OF DOWNLIGHT IN TYPE N1E AND N2E FIXTURES. LOCATE ABOVE LAY IN CEILING AND PROVIDE REMOTE TEST SWITCH.
- SWITCHES FOR CONTROL OF LIGHTING ARE LOCATED ON THE FIRST FLOOR.
- CONNECT TO FIXTURE PROVIDED WITH ACRYLIC SHOWER INSERT.

DATE: APRR

SYM: DESCRIPTION

NAVFAC

BRADLEY WYNN REEVES
20984
REGISTERED PROFESSIONAL ENGINEER

EWING COLE

Federal Reserve Bank Building
100 North 6th Street
Philadelphia, PA 19106-1500
Tel: 215-923-2020 Fax: 215-574-0822

AE INFO

APPROVED

FOR COMMANDER NAVFAC ACTIVITY

SATISFACTORY TO DATE

BWR KDM BKB

PM/DM

BRANCH MANAGER

CHIEF ENGR ARCH

FIRE PROTECTION

NAVFAC ENGINEERING COMMAND

NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON

DD/EA

MARINE CORPS BASE QUANTICO, VIRGINIA

QUANTICO, VA

REPLACE QUANTICO M/H SCHOOL

SECOND FLOOR - AREA 'D' - LIGHTING

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

PROJECT NO.: P-021

CONSTR. CONTR. NO.: W91236-15-C-0023

NAVFAC DRAWING NO.: 13091394

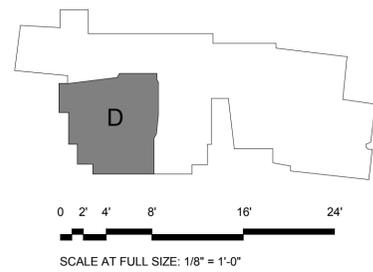
SHEET 640 OF 789

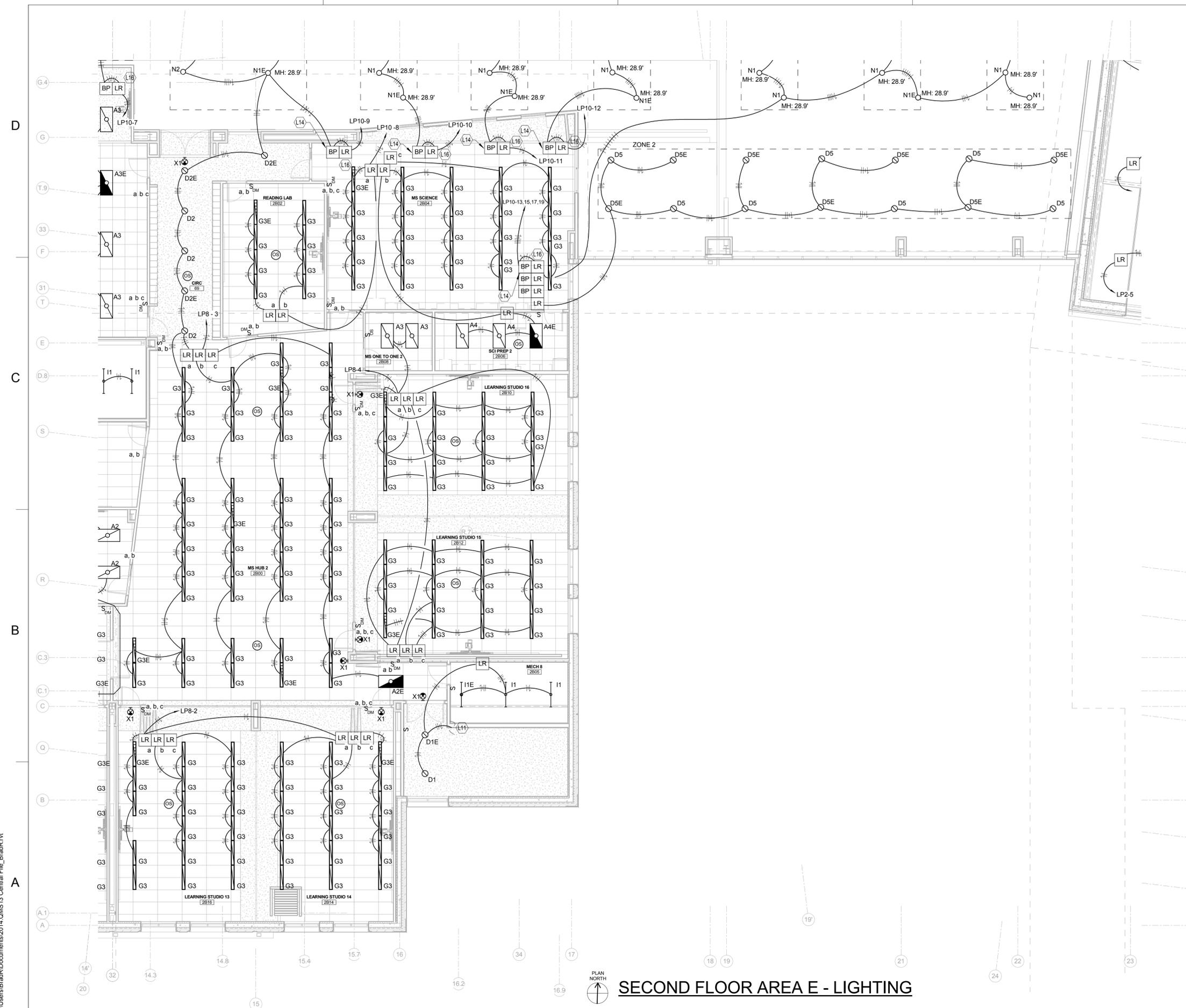
EL124

DRAWING REVISION: 10 MARCH 2016

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PLAN NORTH
SECOND FLOOR AREA D - LIGHTING

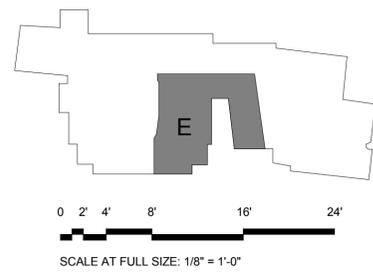




PLAN NORTH
SECOND FLOOR AREA E - LIGHTING

LIGHTING CONTROLS SEQUENCE OF OPERATIONS	
1	OCCUPANCY SENSORS SHALL TURN LIGHTING ON 50% UPON ENTERING ROOM AND SHALL TURN LIGHTING ON 100% MANUALLY.
2	OCCUPANCY SENSORS SHALL TURN LIGHTING ON 15 MINUTES UPON EXITING ROOM. TIME LIMIT SHALL BE ADJUSTABLE.
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4	EXTERIOR BUILDING MOUNTED LIGHTING SHALL BE CONTROLLED VIA PHOTOCELL/TIMELOCK/BUILDING LIGHTING CONTROLS SYSTEM MOTION SENSORS. ALL EXTERIOR LIGHTING SHALL AUTOMATICALLY GO TO FULL ON IF THE BUILDING SECURITY SYSTEM GOES INTO ALARM.
5	EXTERIOR POLE MOUNTED LIGHTING SHALL BE CONTROLLED VIA PHOTOCELL/TIMELOCK/BUILDING LIGHTING CONTROLS SYSTEM. ALL EXTERIOR LIGHTING SHALL AUTOMATICALLY GO TO FULL ON IF THE BUILDING SECURITY SYSTEM GOES INTO ALARM.
6	LEARNING SPACES (WITH OR WITHOUT DAYLIGHTING CONTROLS): SEPARATE ZONE OF LIGHTING CONTROL, SHALL BE PROVIDED FOR ROW OF LIGHTS ON TEACHING WALLS (SMARTBOARD) FROM REMAINING FIXTURES IN THE SPACE

TAGGED NOTES	
L11	CONNECT CIRCUIT TO OTHER FIXTURES IN THIS STAIRWELL THAT ARE ABOVE/BELOW.
L14	125 WATT, 277V, MINI-INVERTER FOR BATTERY BACKUP OF DOWNLIGHT IN TYPE N1E AND N2E FIXTURES. LOCATE ABOVE LAY IN CEILING AND PROVIDE REMOTE TEST SWITCH.
L16	SWITCHES FOR CONTROL OF LIGHTING ARE LOCATED ON THE FIRST FLOOR.



APPR	DATE
SYM	DESCRIPTION




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 Philadelphia, PA 19106-1590
 Tel: 215-923-2020 Fax: 215-574-0852

AE INFO

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FOR COMMANDER NAVFAC
 ACTIVITY

SATISFACTORY TO DATE

BWR KDM BKB

PM/DM

BRANCH MANAGER

CHIEF ENGR ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
 NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON
 DOD/EA
 MARINE CORPS BASE QUANTICO, VIRGINIA
 QUANTICO, VA

REPLACE QUANTICO M/H SCHOOL

SECOND FLOOR - AREA E - LIGHTING

SCALE: 1/8" = 1'-0"
 PROJECT NO.: P-021
 CONSTR CONTR NO.: W91236-15-C-0023
 NAVFAC DRAWING NO.: 13091395
 SHEET 641 OF 789
 EL125

DRAWN/FORM REVISION: 10 MARCH 2009

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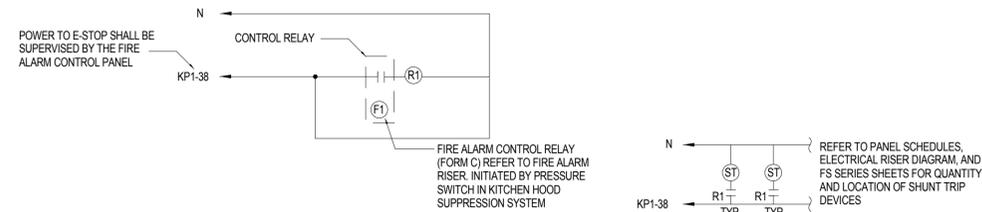
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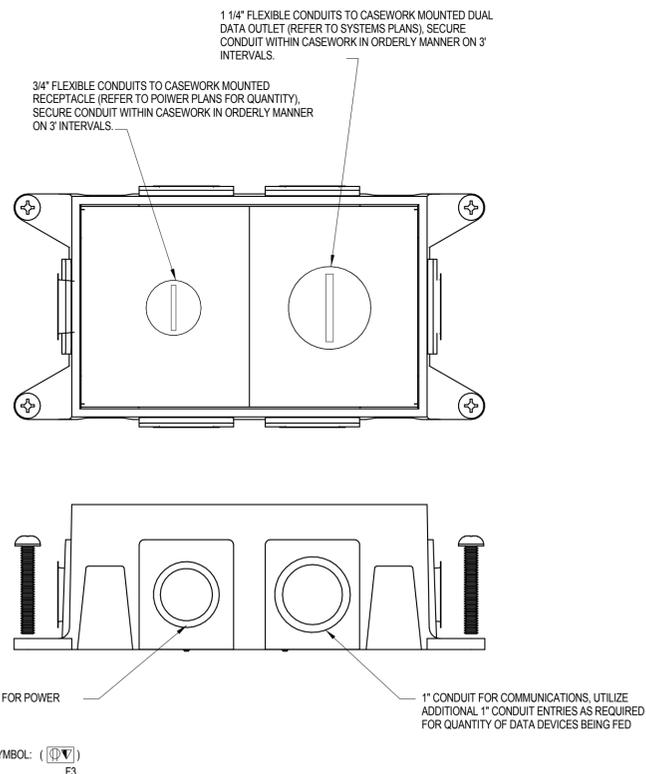
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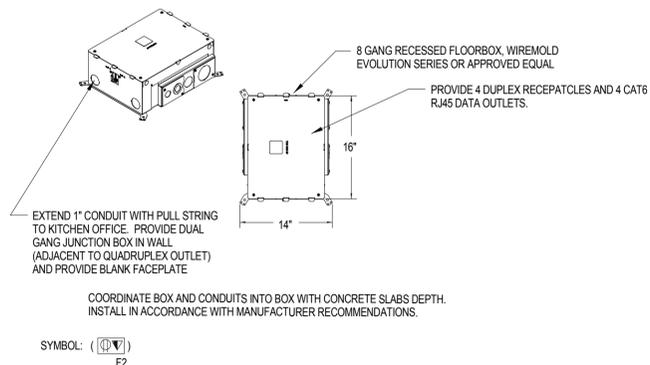
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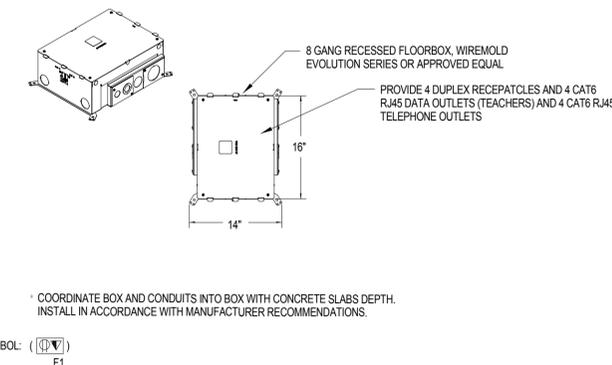
4 E502 **E-STOP/FIRE ALARM - ELECTRICAL SHUTDOWN WIRING DIAGRAM**
NOT TO SCALE



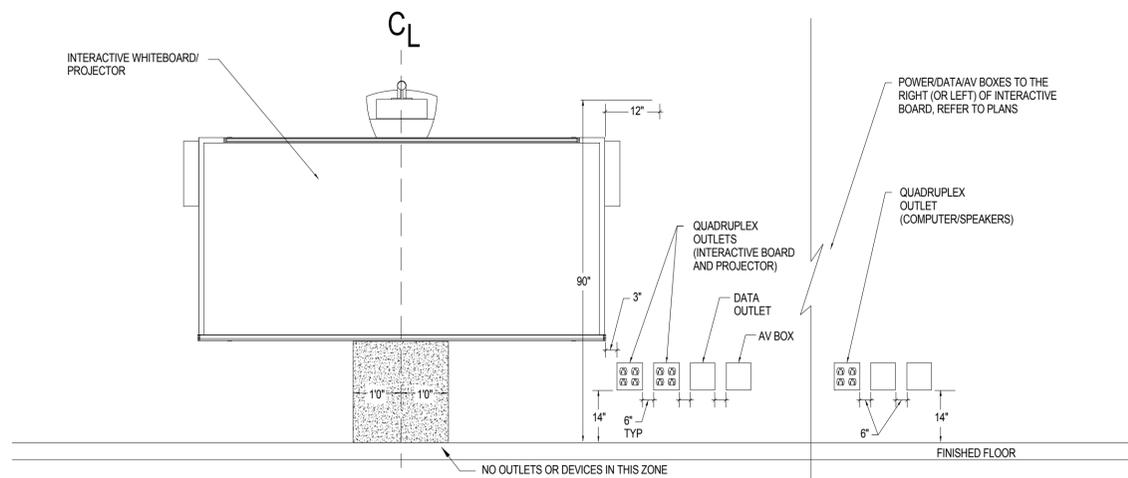
3 E502 **COMBINATION FLUSH FLOOR SERVICE PEDESTAL DETAIL**
NOT TO SCALE



2 E502 **COMBINATION RECESSED FLOOR BOX DETAIL**
NOT TO SCALE



1 E502 **COMBINATION RECESSED FLOOR BOX DETAIL**
NOT TO SCALE



5 E502 **TYPICAL CLASSROOM TEACHING WALL ELEVATION**
NOT TO SCALE

SYN	DESCRIPTION	DATE	APPR



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APPROVED	AE INFO
FOR COMMANDER NAVFAC	ACTIVITY
SATISFACTORY TO	DATE
BWR	KDM BKB
PM/DM	
BRANCH MANAGER	
CHIEF ENG'G ARCH	
FIRE PROTECTION	

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON
DOD/EA
MARINE CORPS BASE QUANTICO, VIRGINIA
QUANTICO, VA
REPLACE QUANTICO M/H SCHOOL
ELECTRICAL DETAILS

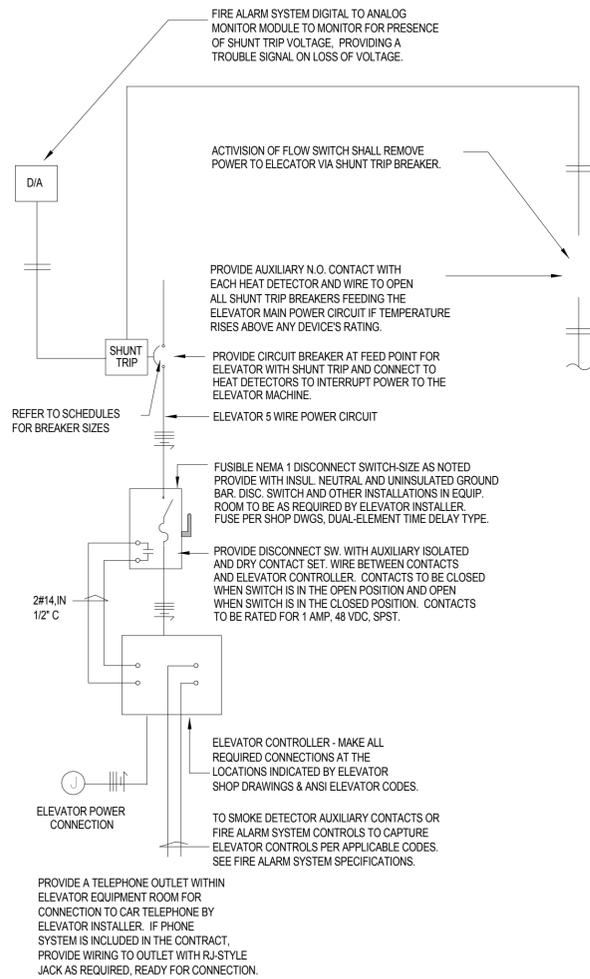
SCALE:	1/8" = 1'-0"
PROJECT NO.:	P-021
CONSTR. CONTR. NO.:	W91236-15-C-0023
NAVFAC DRAWING NO.:	13091397
SHEET	643 OF 789
E502	

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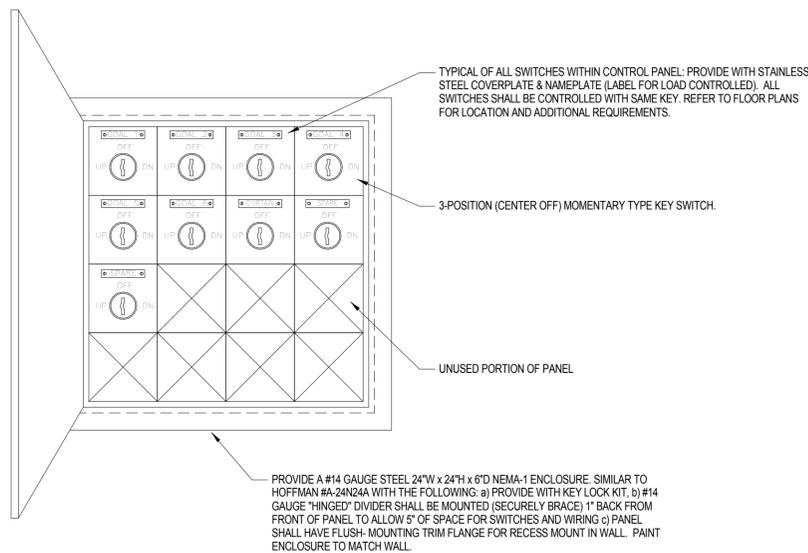
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2
E505
ELEVATOR WIRING SCHEMATIC
NOT TO SCALE



1
E505
GYMNASIUM CONTROL PANEL DETAIL
NOT TO SCALE

APPROVED	DATE	APPR
FOR COMMANDER NAVFAC ACTIVITY		
SATISFACTORY TO	DATE	
BWR	KDM	BKB
PM/DM		
BRANCH MANAGER		
CHIEF ENG/ ARCH		
FIRE PROTECTION		
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND DOD/EA	NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON	
MARINE CORPS BASE QUANTICO, VIRGINIA	QUANTICO, VA	
REPLACE QUANTICO M/H SCHOOL		
ELECTRICAL DETAILS		
SCALE:	1/8" = 1'-0"	
PROJECT NO.:	P-021	
CONSTR. CONTR. NO.:	W91236-15-C-0023	
NAVFAC DRAWING NO.:	13091400	
SHEET	646 OF 789	
E505		
DRAWING REVISION:	10 MARCH 2009	



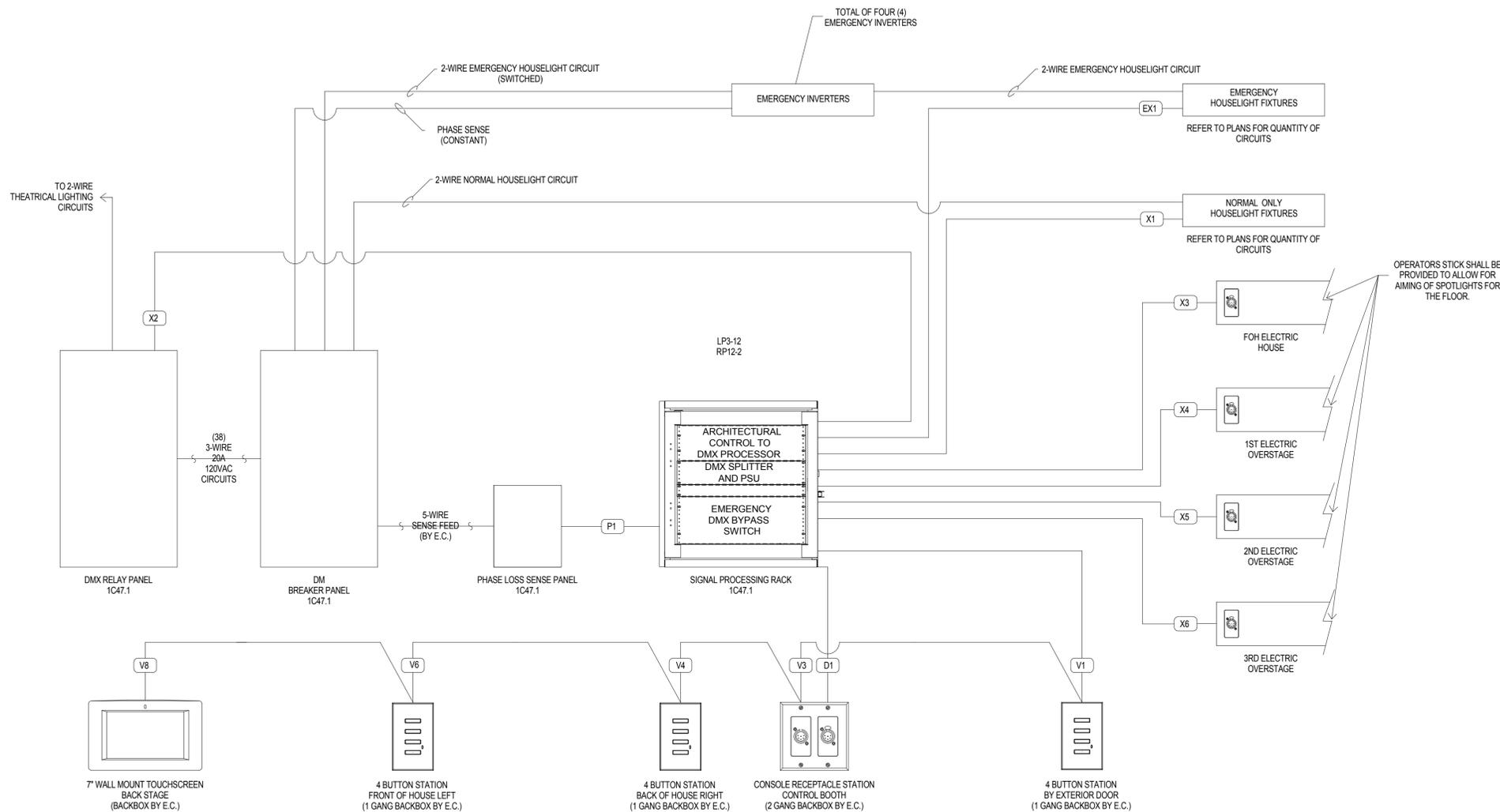
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Federal Reserve Bank Building
100 North 6th Street
Philadelphia, PA 19106-1590
Tel: 215-923-2020 Fax: 215-574-0852

D

C

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A



OPERATORS STICK SHALL BE PROVIDED TO ALLOW FOR AIMING OF SPOTLIGHTS FOR THE FLOOR.

NOTES:

1. THIS DRAWING DOES NOT INDICATE THE NUMBER OR SIZE OF CONDUITS REQUIRED, BUT THE SEPARATION OF GROUPS OF WIRES. INTERCONNECTING WIRE AND CONDUIT NOT BY THEATRICAL LIGHTING SUPPLIER.
2. WHENEVER CONTROL WIRES SHOWN MUST BE RUN CLOSE TO A C.C. CONTROL AND/OR POWER CIRCUITS, THESE CONTROL WIRES MUST BE RUN IN SEPARATE METAL CONDUIT.
3. INCLUDE MINIMUM 10% SPARES IN EACH CONTROL RUN.
4. BACK BOXES OF CONTROL STATIONS MUST BE GROUNDED, BUT MUST BE WIRED IN A DAISY CHAINED CONFIGURATION. NO T-TAPS OR STARS ALLOWED. MAXIMUM RUN LENGTH TO TOUCHSCREENS IS 500'.
5. HOUSELIGHT FIXTURE DMX TO BE DAISY CHAINED. TYPICAL MAXIMUM OF 32 FIXTURES PER CHAIN. CONSULT FIXTURE SPECIFICATION FOR MAXIMUM FIXTURE QUANTITY ON A DATA RUN.

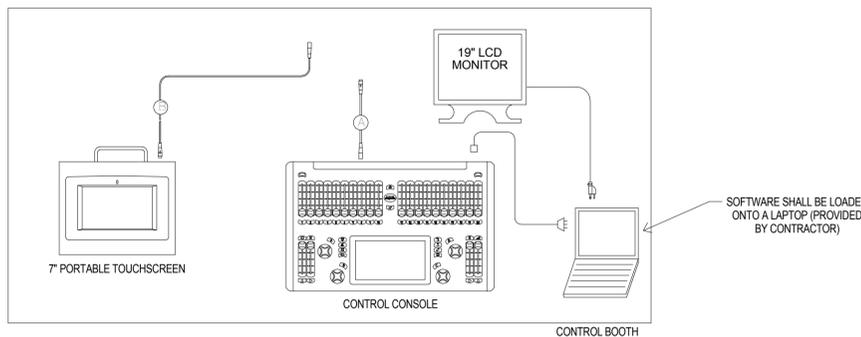
WIRES AND CABLES BY E.C.:

CONTROL WIRE LEGEND		
SYMBOL	WIRE TYPE	SIGNAL
D*	(1) BELDEN 1583A- CAT5E	DMX IN
X*	(1) BELDEN 1583A- CAT5E	DMX OUT
EX*	(1) BELDEN 1583A- CAT5E	EMERGENCY DMX OUT
V*	(1) BELDEN 1583A- CAT5E, (2) 16AWG WIRES- DRY CONTACT	VISION.NET
P*	(1) 16AWG WIRES- DRY CONTACT	PANIC

* = WIRE IDENTIFICATION NUMBER (NOT QUANTITY)

EXTENSION CABLES:

- A DMX CABLE, 25'
- B 6 PIN XLR CABLE, 25'



1 THEATRICAL LIGHTING CONTROL DIAGRAM
E506 NOT TO SCALE

SYMBOL	DESCRIPTION	DATE	APPROVED



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SATISFACTORY TO DATE
BWR KDM BKB

PHDCM
BRANCH MANAGER
CHIEF ENO ARCH

DEPARTMENT OF THE NAVY
NAVFACILITIES ENGINEERING COMMAND - WASHINGTON DODEA
MARINE CORPS BASE QUANTICO, VIRGINIA
QUANTICO, VA
REPLACE QUANTICO M/H SCHOOL
ELECTRICAL DETAILS

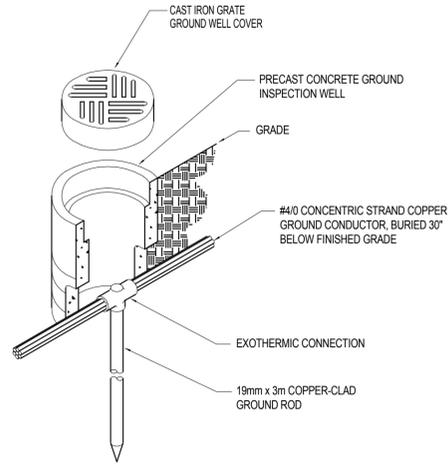
SCALE: 1/8" = 1'-0"
PROJECT NO.: P-021
CONSTR. CONTR. NO.: W91236-15-C-0023
NAVFAC DRAWING NO.: 13091401
SHEET 647 OF 789
E506

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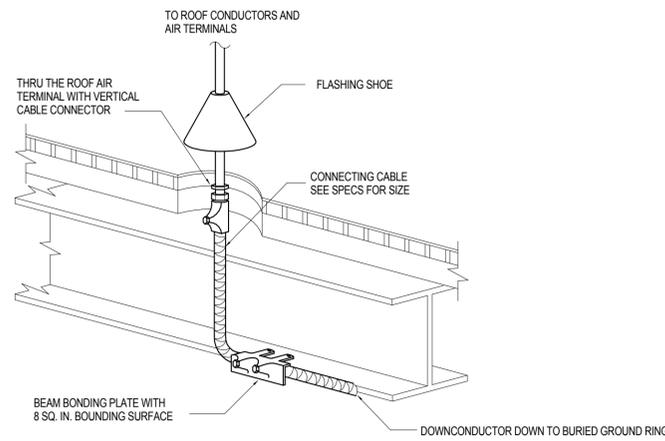
C

B

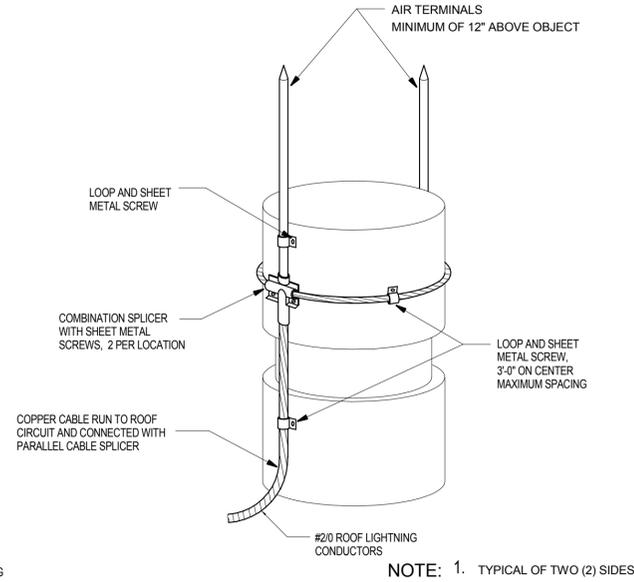
A



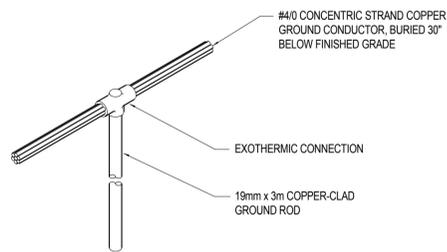
1
E507
GROUND INSPECTION WELL DETAIL
NOT TO SCALE



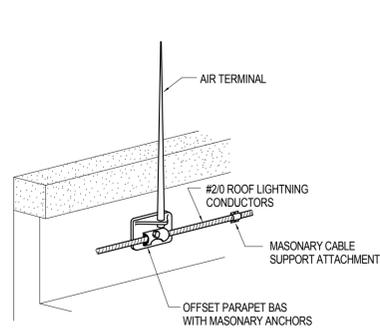
2
E507
TYPICAL THRU THE ROOF CONNECTION
NOT TO SCALE



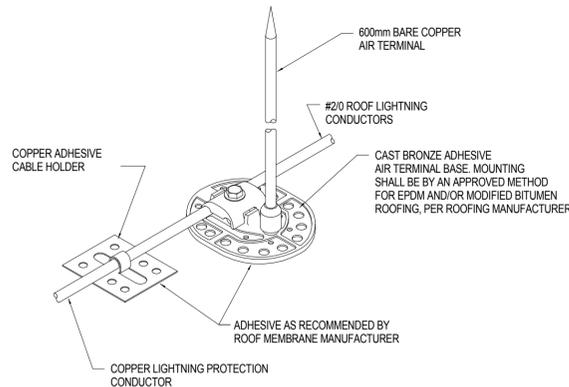
3
E507
AIR TERMINALS FOR MECHANICAL EQUIPMENT
NOT TO SCALE



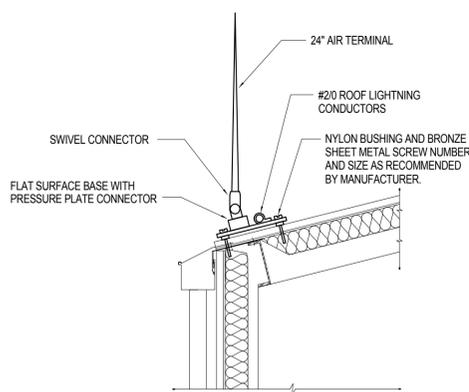
7
E507
GROUND ROD DETAIL
NOT TO SCALE



4
E507
AIR TERMINAL AT ROOF EDGE
NOT TO SCALE



5
E507
MID-ROOF AIR TERMINAL
NOT TO SCALE



6
E507
AIR TERMINAL AT ROOF EDGE
NOT TO SCALE

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APPR	
DATE	
SYN	DESCRIPTION
	
	
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AE INFO	
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FOR COMMANDER NAVFAC ACTIVITY	
SATISFACTORY TO DATE	
BWR	KDM BKB
BRANCH MANAGER	
CHIEF ENGR ARCH	
FIRE PROTECTION	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON DOD/EA MARINE CORPS BASE QUANTICO REPLACE QUANTICO M/H SCHOOL QUANTICO, VA LIGHTNING PROTECTION DETAILS	
SCALE: 1/8" = 1'-0"	
PROJECT NO.: P-021	
CONSTR. CONTR. NO.: W91236-15-C-0023	
NAVFAC DRAWING NO.: 13091402	
SHEET 648 OF 789	
E507	
DRAWING REVISION: 10 MARCH 2009	

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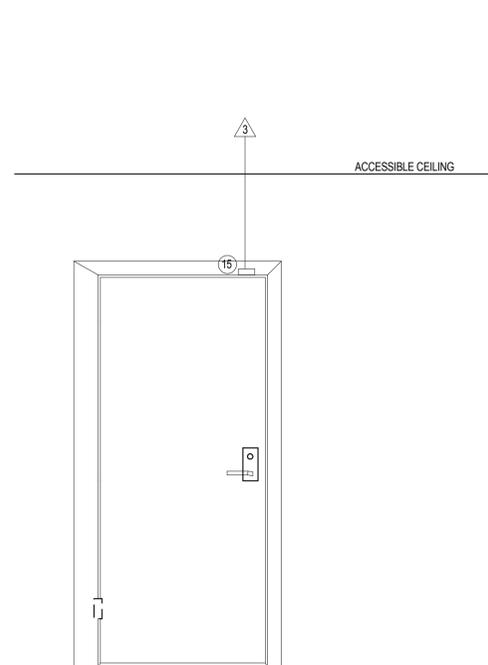
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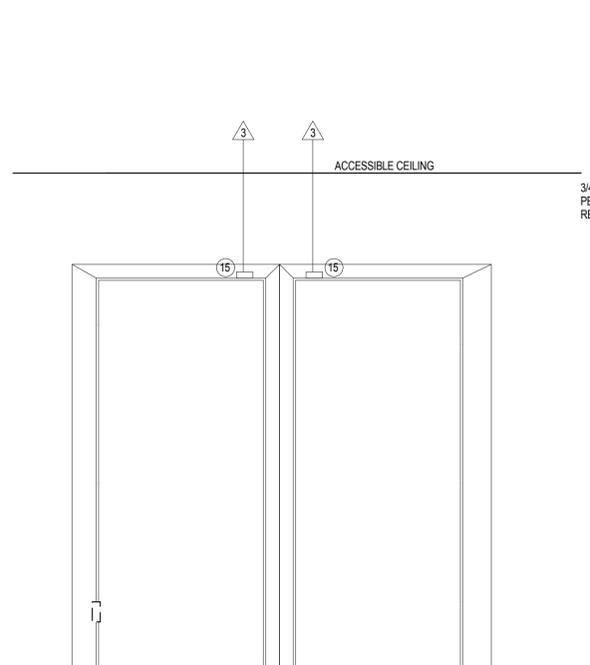
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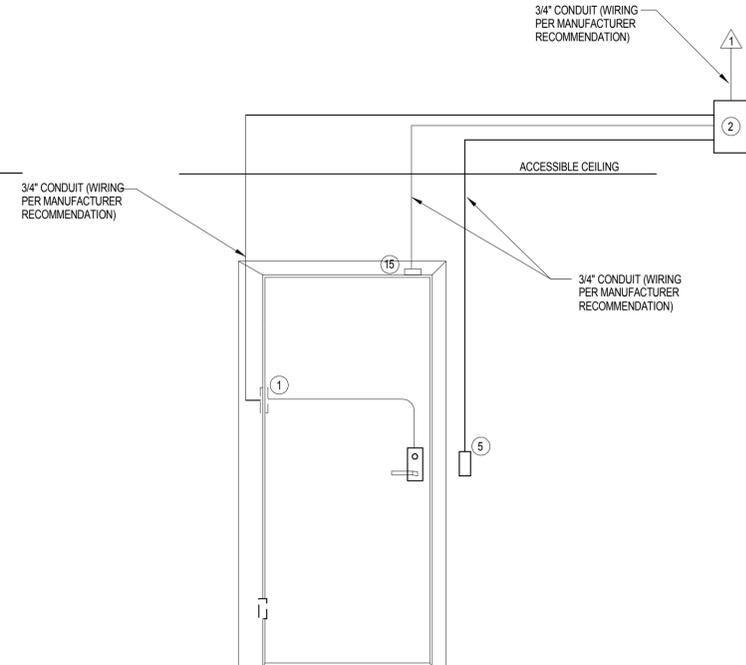
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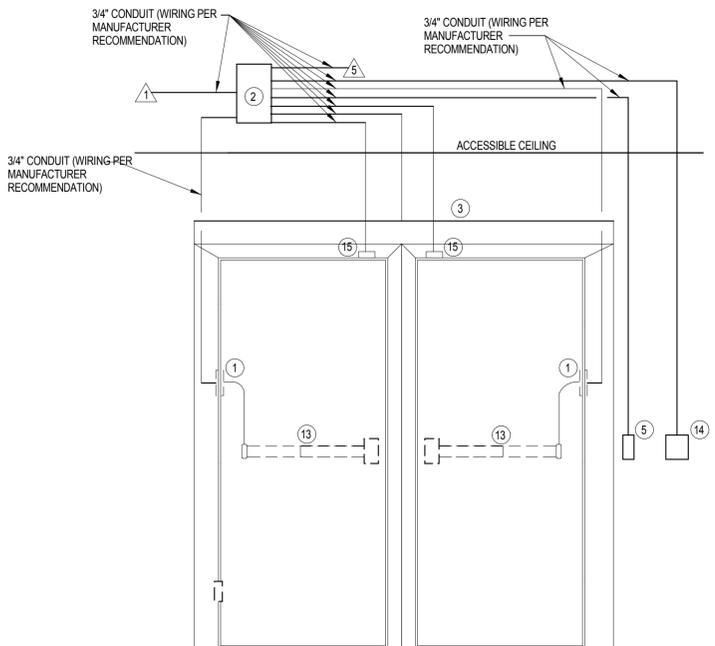
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NOT TO SCALE



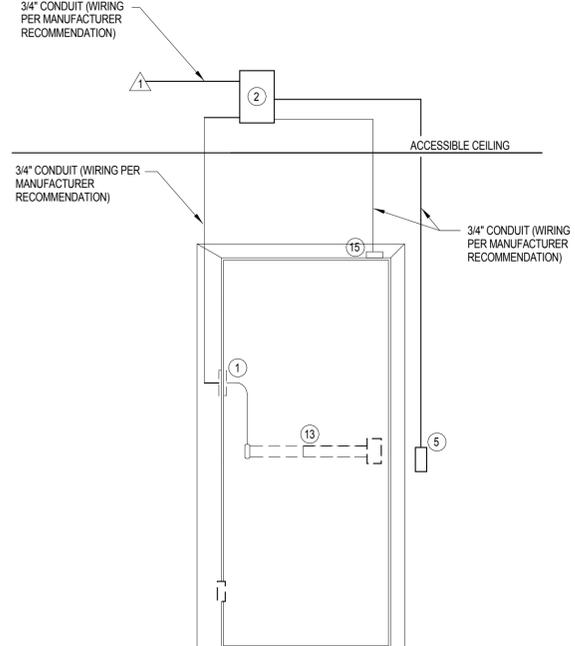
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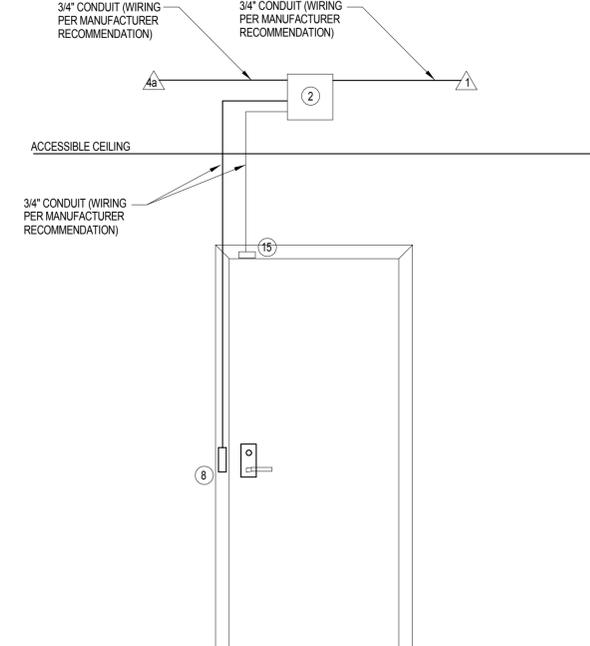
DOORS 1C25.1
NOT TO SCALE



DOORS 1A00.1, 1A00.2, 1A00.3, 1A00.4
NOT TO SCALE



DOORS 1C47.3, 1C47.4
NOT TO SCALE



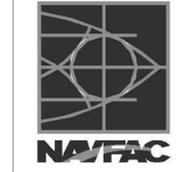
DOORS 1A01.2
NOT TO SCALE

- GENERAL NOTES**
- A. ALL LOW VOLTAGE WIRING SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR. ALL TERMINATIONS SHALL BE BY ELECTRICAL CONTRACTOR.
 - B. ALL LOW VOLTAGE CABLE SHALL BE LABELED ON BOTH ENDS OF CABLING.
 - C. ELECTRICAL CONTRACTOR SHALL HOLD A PRE-INSTALL LOW VOLTAGE WIRING CONFERENCE WITH GOVERNMENT AND ALL APPLICABLE CONTRACTORS.
 - D. FULL WIRING DIAGRAM SHALL BE PROVIDED WITH SUBMITTALS SHOWING ALL LOW VOLTAGE AND LINE VOLTAGE WIRING, TERMINATIONS, EQUIPMENT, ETC.

- TAGGED NOTES - CIRCLES INDICATE EQUIPMENT**
- 1. EPT - ELECTRIC POWER TRANSFER (FRAME TO DOOR) - FURNISHED BY DOOR HARDWARE SUPPLIER
 - 2. DOOR CONTROLLER/POWER SUPPLY
 - 3. AUTOMATIC DOOR OPERATOR
 - 4. ELECTRIC MORTISE LOCK SET
 - 5. PROXIMITY READER (SINGLE GANG)
 - 6. PUSHBUTTON (MOUNTED UNDER RECEPTION DESK IN RECEPTION 105)
 - 7. MAGNETIC HOLDER (SINGLE GANG)
 - 8. ELECTRIC STRIKE
 - 9. PUSHBUTTON (MOUNTED UNDER RECEPTION DESK IN RECEPTION 105)
 - 10. LED INDICATOR ABOVE OPENING ON CLASSROOM SIDE. TIED TO LIGHTING CONTROLS AND POWER TO INDICATE THAT SOMEONE IS IN THE RESTROOM.
 - 11. EXIT ALARM, NARROW JAMB MOUNT.
 - 12. 10X10X4 JUNCTION BOX BY ELECTRICAL CONTRACTOR
 - 13. ELECTRIFIED EXIT DEVICE - FURNISHED BY DOOR HARDWARE SUPPLIER
 - 14. ADA DOOR OPERATOR

- TAGGED NOTES - TRIANGLES INDICATE ELECTRICAL SERVICES**
- 1. 115VAC, 60HZ, SERVICE REQUIRED
 - 2. POWER AND CONTROL WIRING BY FIRE ALARM SUB REQUIRED
 - 3. CONDUIT STUB-UP TO CLEAR ACCESSIBLE SPACE
 - 4. TO REMOTE RELEASE PUSHBUTTON INTEGRAL TO VIDEO-INTERGOM

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Tel: 215-923-2020 Fax: 215-574-0852

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SATISFACTORY TO DATE
BWR KDM BKB
PMDM
BRANCH MANAGER
CHIEF ENGR ARCH
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON
DODIA
MARINE CORPS BASE QUANTICO, VIRGINIA
QUANTICO, VA
REPLACE QUANTICO M/H SCHOOL
DOOR DETAILS

SCALE: 1/8" = 1'-0"
PROJECT NO.: P-021
CONSTR. CONTR. NO.: W91236-15-C-0023
NAVFAC DRAWING NO.: 13091403
SHEET 649 OF 789
E508

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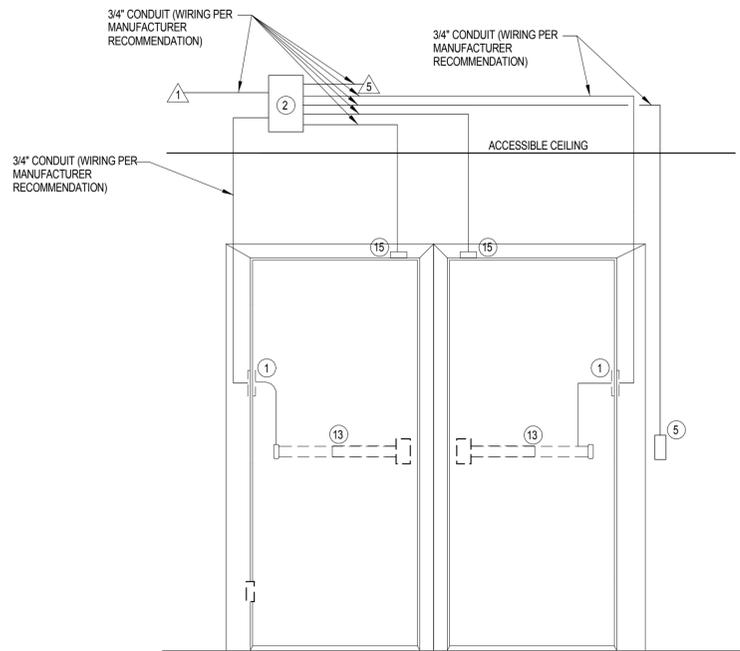
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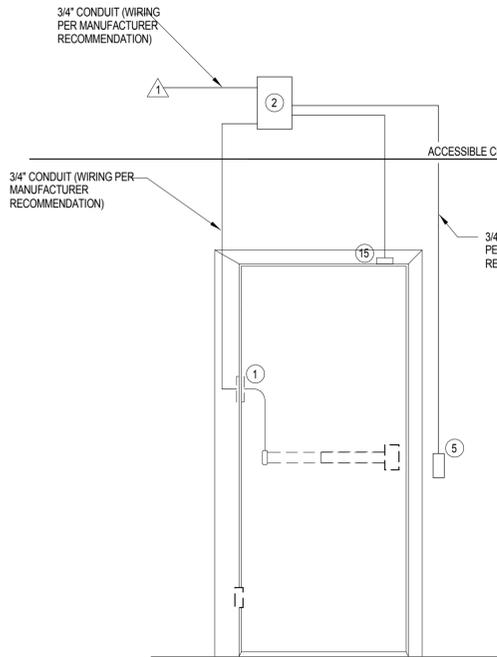
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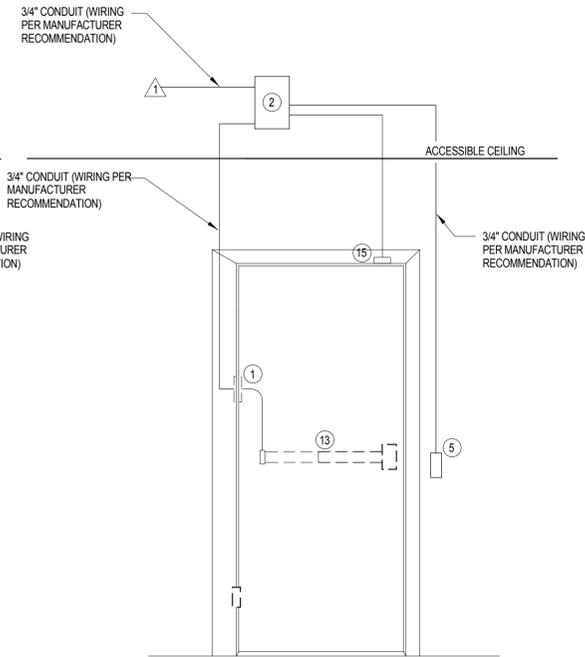
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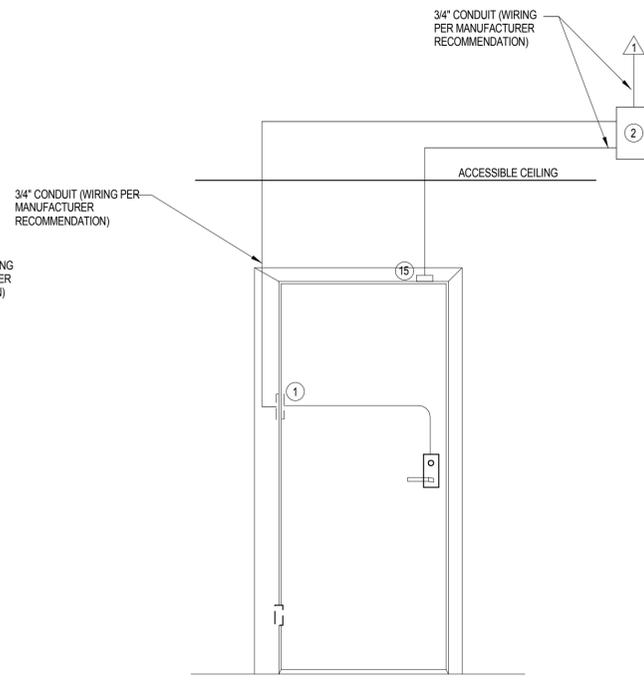
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1S04.2, 1S05.2, 1C00.7, 1C11.1, 1C17.1, 1C02.2**
NOT TO SCALE



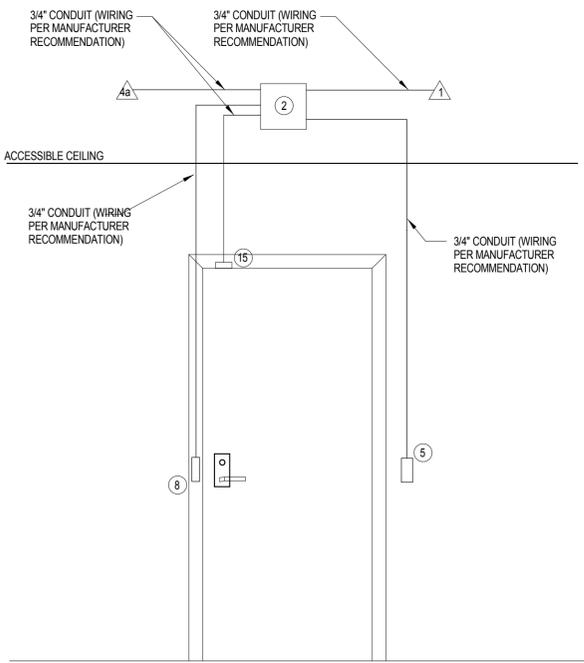
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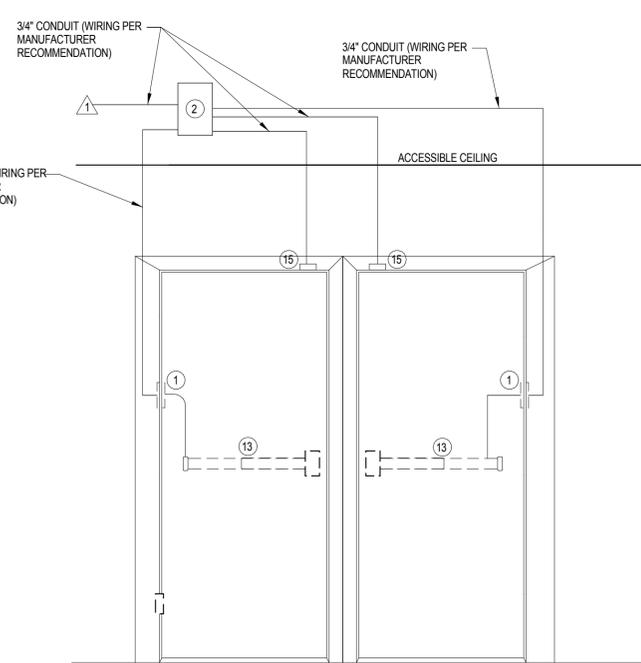
DOORS 1C32.2, 1C39.2, 1C41.2, 1A10.3
NOT TO SCALE



DOORS 1C19.3
NOT TO SCALE



**DOORS 1A11.1, 1C23.1, 1A22.1, 2C06.1, 2E06.1,
1A10.3, 1E05.1**
NOT TO SCALE



DOORS 1C00.4, 1C00.8, 2C18.1, 2D00.1, 1C00.2
NOT TO SCALE

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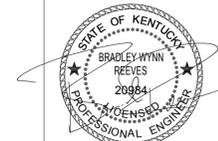
TAGGED NOTES - CIRCLES INDICATE EQUIPMENT

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- 4. TO REMOTE RELEASE PUSHBUTTON INTEGRAL TO VIDEO-INTERGOM

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SATISFACTORY TO DATE
BWR KDM BKB
PM/DM
BRANCH MANAGER
CHIEF ENG ARCH
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON
DOD/EA
MARINE CORPS BASE QUANTICO, VIRGINIA
QUANTICO, VA
REPLACE QUANTICO M/H SCHOOL
DOOR DETAILS

SCALE:	1/8" = 1'-0"
PROJECT NO.:	P-021
CONSTR. CONTR. NO.:	W91236-15-C-0023
NAVFAC DRAWING NO.:	13091404
SHEET	650 OF 789
E509	

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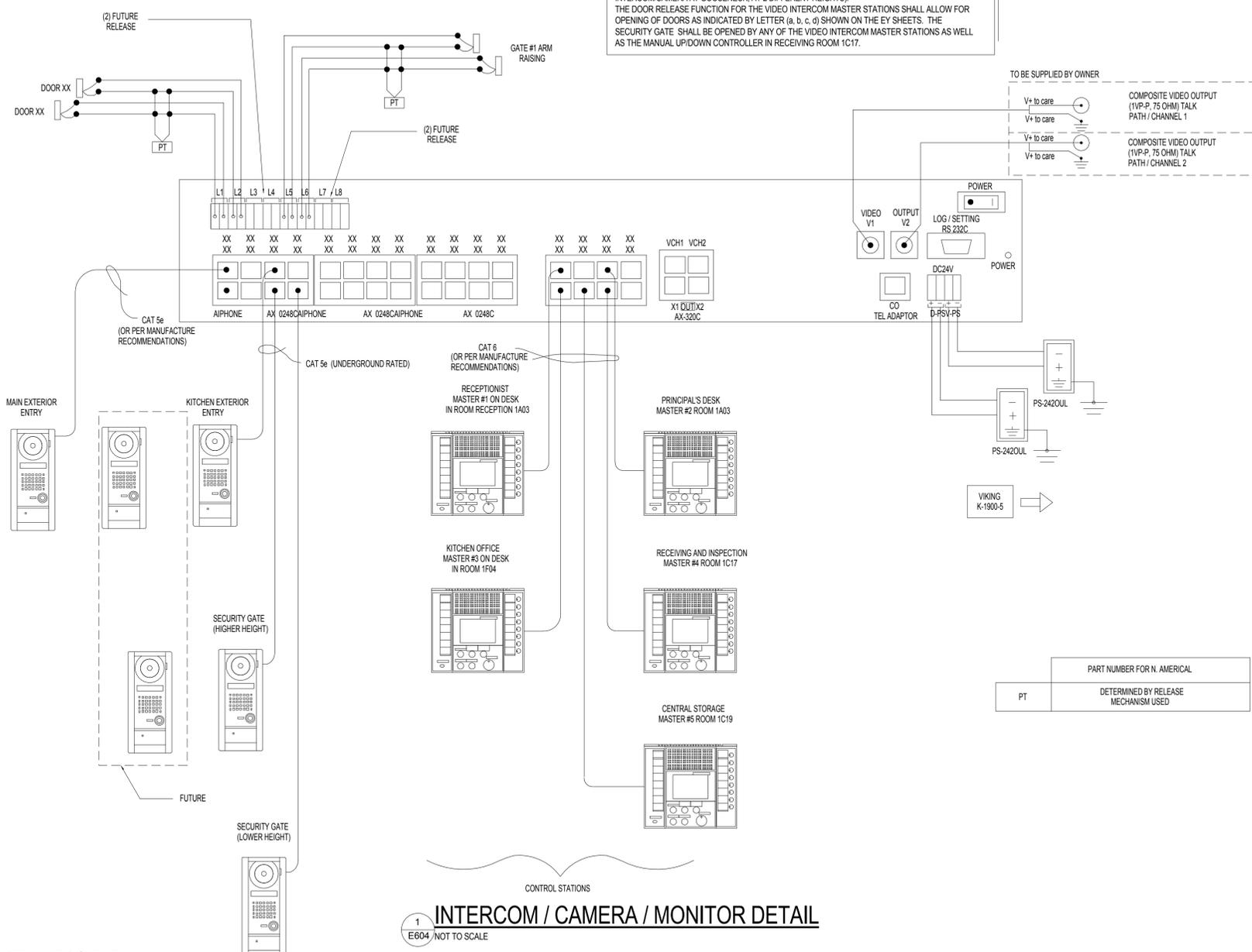
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SEQUENCE OF OPERATIONS:

THE VIDEO INTERCOM MASTER STATIONS IN THE RECEPTION 1A01 AND PRINCIPALS OFFICE 1A09 SHALL COMMUNICATE WITH ALL VIDEO INTERCOM/CAMERA STATIONS (INCLUDING THE STATION MOUNTED IN THE GOOSENECK AT THE EXTERIOR SECURITY GATE). THE VIDEO INTERCOM MASTER STATION IN KITCHEN OFFICE, CENTRAL STORAGE 1C19, AND IN RECEIVING ROOM 1C17 SHALL COMMUNICATE WITH THE VIDEO INTERCOM/CAMERA STATION AT EXTERIOR LOADING DOCK DOOR AND THE STATION MOUNTED IN THE GOOSENECK AT THE EXTERIOR SECURITY GATE (2 VIDEO INTERCOM/CAMERA AT GOOSENECK, AT 2 DIFFERENT HEIGHTS).

THE DOOR RELEASE FUNCTION FOR THE VIDEO INTERCOM MASTER STATIONS SHALL ALLOW FOR OPENING OF DOORS AS INDICATED BY LETTER (a, b, c, d) SHOWN ON THE EY SHEETS. THE SECURITY GATE SHALL BE OPENED BY ANY OF THE VIDEO INTERCOM MASTER STATIONS AS WELL AS THE MANUAL UP/DOWN CONTROLLER IN RECEIVING ROOM 1C17.



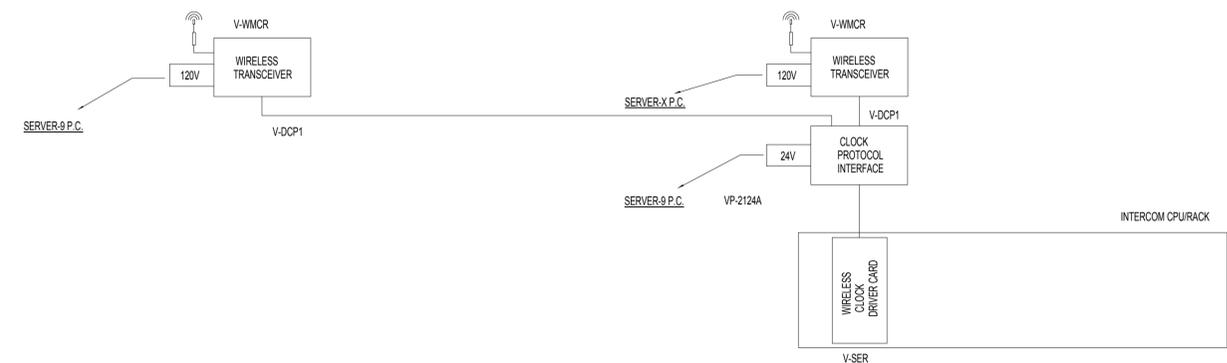
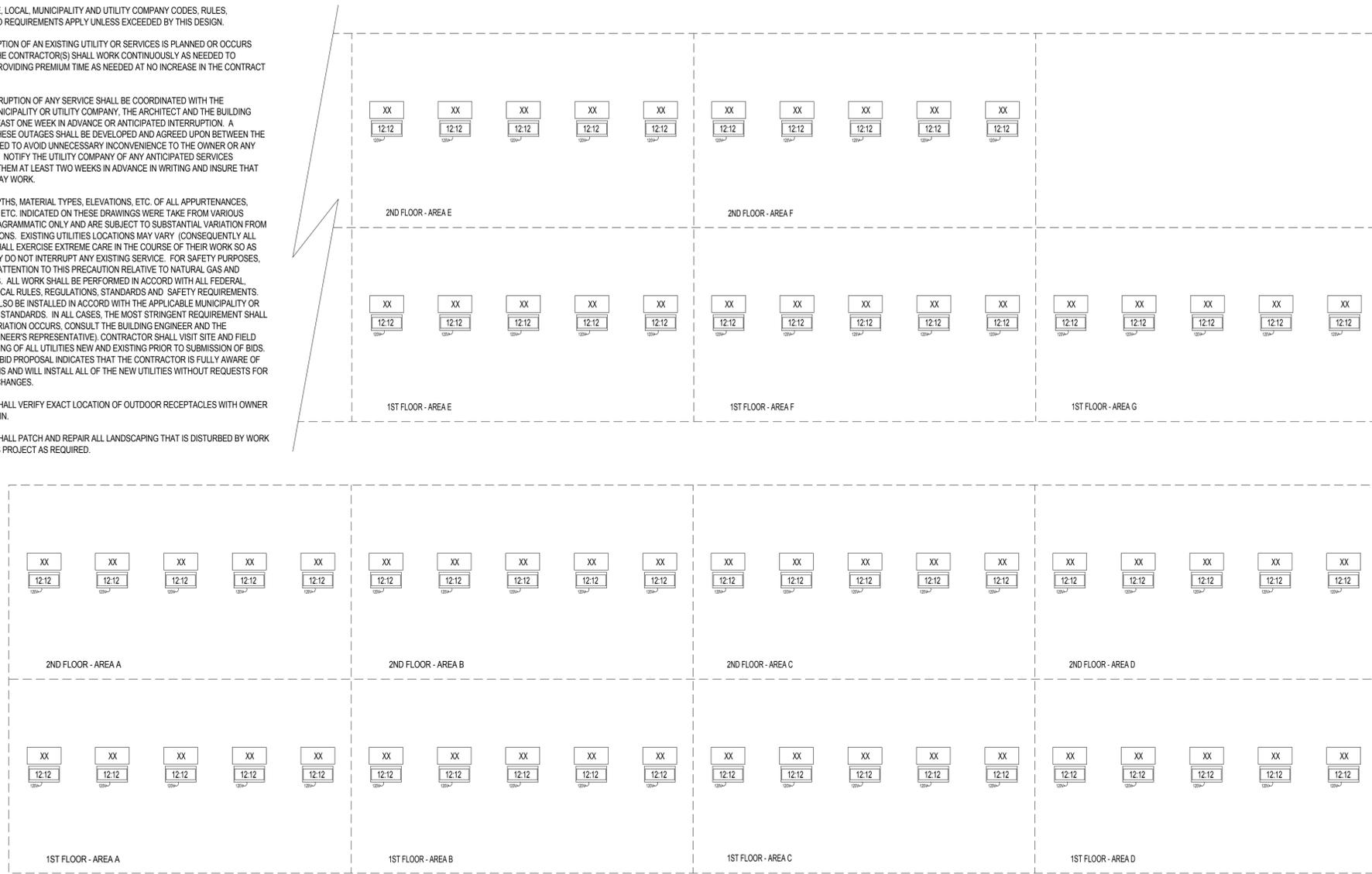
1
E604 SECURITY RISER
1/8" = 1'-0"

E604 NOT TO SCALE

APPR	
DATE	
SYN	DESCRIPTION
  EWING COLE Federal Reserve Bank Building 100 North 6th Street Philadelphia, PA 19106-1590 Tel: 215-923-2020 Fax: 215-574-0952	
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SATISFACTORY TO	DATE
BWR	KDM
PKDM	BKB
BRANCH MANAGER	
CHIEF ENG/ARCH	
FIRE PROTECTION	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON DODEA MARINE CORPS BASE QUANTICO, VIRGINIA QUANTICO, VA REPLACE QUANTICO M/H SCHOOL SECURITY SYSTEM RISER DIAGRAM	
SCALE:	1/8" = 1'-0"
PROJECT NO.:	P-021
CONSTR. CONTR. NO.:	W91236-15-C-0023
NAVFAC DRAWING NO.:	13091408
SHEET	654 OF 789
E604	
DRAWING REVISION: 10 MARCH 2009	

GENERAL NOTES:

- A. DO NOT SCALE FROM MECHANICAL AND ELECTRICAL DRAWINGS. FIELD VERIFY REQUIRED DIMENSIONS.
- B. CONTRACTOR SHALL CUT AND PATCH ALL PAVEMENT, CURBING, etc. AS REQUIRED FOR WORK.
- C. FEDERAL, STATE, LOCAL, MUNICIPALITY AND UTILITY COMPANY CODES, RULES, REGULATIONS AND REQUIREMENTS APPLY UNLESS EXCEEDED BY THIS DESIGN.
- D. WHEN INTERRUPTION OF AN EXISTING UTILITY OR SERVICES IS PLANNED OR OCCURS ACCIDENTALLY, THE CONTRACTOR(S) SHALL WORK CONTINUOUSLY AS NEEDED TO RESTORE SAME PROVIDING PREMIUM TIME AS NEEDED AT NO INCREASE IN THE CONTRACT PRICE.
- E. PLANNED INTERRUPTION OF ANY SERVICE SHALL BE COORDINATED WITH THE APPROPRIATE MUNICIPALITY OR UTILITY COMPANY, THE ARCHITECT AND THE BUILDING OPERATORS AT LEAST ONE WEEK IN ADVANCE OR ANTICIPATED INTERRUPTION. A SCHEDULE FOR THESE OUTAGES SHALL BE DEVELOPED AND AGREED UPON BETWEEN THE PARTIES MENTIONED TO AVOID UNNECESSARY INCONVENIENCE TO THE OWNER OR ANY AFFECTED PARTY. NOTIFY THE UTILITY COMPANY OF ANY ANTICIPATED SERVICES REQUIRED FROM THEM AT LEAST TWO WEEKS IN ADVANCE IN WRITING AND INSURE THAT THEY DO NOT DELAY WORK.
- F. LOCATIONS, DEPTHS, MATERIAL TYPES, ELEVATIONS, ETC. OF ALL APPURTENANCES, LINES, BUILDINGS, ETC. INDICATED ON THESE DRAWINGS WERE TAKE FROM VARIOUS SOURCES, ARE DIAGRAMMATIC ONLY AND ARE SUBJECT TO SUBSTANTIAL VARIATION FROM EXISTING CONDITIONS. EXISTING UTILITIES LOCATIONS MAY VARY (CONSEQUENTLY ALL CONTRACTORS SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS INSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. ALL WORK SHALL BE PERFORMED IN ACCORD WITH ALL FEDERAL, STATE, AND/OR LOCAL RULES, REGULATIONS, STANDARDS AND SAFETY REQUIREMENTS. UTILITIES SHALL ALSO BE INSTALLED IN ACCORD WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY. IF ANY VARIATION OCCURS, CONSULT THE BUILDING ENGINEER AND THE MECHANICAL ENGINEER'S REPRESENTATIVE). CONTRACTOR SHALL VISIT SITE AND FIELD VERIFY THE ROUTING OF ALL UTILITIES NEW AND EXISTING PRIOR TO SUBMISSION OF BIDS. SUBMISSION OF A BID PROPOSAL INDICATES THAT THE CONTRACTOR IS FULLY AWARE OF ALL OBSTRUCTIONS AND WILL INSTALL ALL OF THE NEW UTILITIES WITHOUT REQUESTS FOR ANY ADDITIONAL CHANGES.
- G. CONTRACTOR SHALL VERIFY EXACT LOCATION OF OUTDOOR RECEPTACLES WITH OWNER PRIOR TO ROUGH-IN.
- H. CONTRACTOR SHALL PATCH AND REPAIR ALL LANDSCAPING THAT IS DISTURBED BY WORK OCCURRING IN THIS PROJECT AS REQUIRED.



CLOCK SYSTEM RISER DIAGRAM
NOT TO SCALE

1 E605-CLOCK RISER
1/8" = 1'-0"

APPR	DATE
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EWING COLE Federal Reserve Bank Building 100 North 6th Street Philadelphia, PA 19106-1590 Tel: 215-923-2020 Fax: 215-574-0952	
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BWR	KDM
PKDM	BKB
BRANCH MANAGER	
CHIEF ENGR ARCH	
FIRE PROTECTION	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON DOD/EA MARINE CORPS BASE QUANTICO, VIRGINIA REPLACE QUANTICO M/H SCHOOL QUANTICO, VA	
CLOCK SYSTEM RISER DIAGRAM	
SCALE:	1/8" = 1'-0"
PROJECT NO.:	P-021
CONSTR. CONTR. NO.:	W91236-15-C-0023
NAVFAC DRAWING NO.:	13091409
SHEET	655 OF 789
E605	
DRAWN/FORM REVISION: 10 MARCH 2016	

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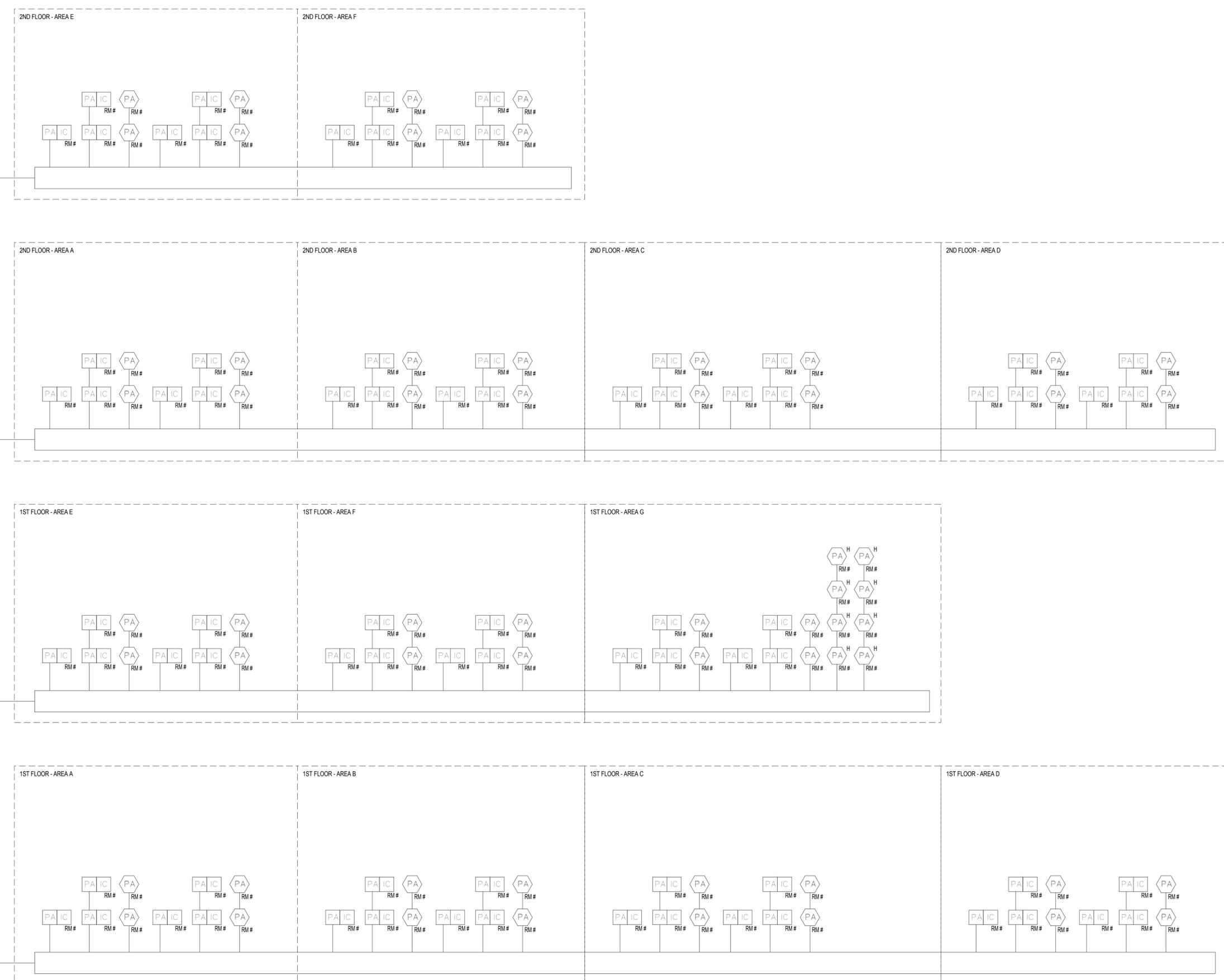
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PAGING/INTERCOM SYSTEM RISER DIAGRAM
NOT TO SCALE

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DATE	
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DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON DODEA MARINE CORPS BASE QUANTICO, VIRGINIA QUANTICO, VA REPLACE QUANTICO M/H SCHOOL PAGING/INTERCOM SYSTEM RISER DIAGRAM	
SCALE:	1/8" = 1'-0"
PROJECT NO.:	P-021
CONSTR. CONTR. NO.:	W91236-15-C-0023
NAVFAC DRAWING NO.:	13091410
SHEET	656 OF 789
E606	
DRAWING REVISION: 10 MARCH 2009	