

# ADDENDUM NO. 2

**November 17, 2022**

**JACKSON ELEMENTARY SCHOOL RENOVATIONS**  
**Valparaiso, IN 46304**

**TO: ALL BIDDERS OF RECORD**

This Addendum forms a part of and modifies the Bidding Requirements, Contract Forms, Contract Conditions, the Specifications, and the Drawings dated October 31, 2022 by Gibraltar Design. Acknowledge receipt of the Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of page ADD 2-1 and attached Addendum No. 2 from Gibraltar Design dated November 16, 2022 and consisting of 2 pages and 17 drawings.

## ADDENDUM TWO

**Addendum Two (AD.02)** to the drawings and specifications prepared by Gibraltar Design for **Jackson Elementary School Renovations** for Duneland School Corporation, Chesterton, Indiana.

All Contractors bidding on this project shall read all of the items covered below and shall comply with all of the requirements as set forth, including any necessary refinements or additions generated by this Addendum and required by the intent of the original contract documents. All Contractors shall acknowledge on their bid form that they have received this Addendum and include the appropriate content of same within their bid proposal.

## DRAWINGS

### 1. Sheet A-301

- A. Refer to revised full size drawing, included in this Addendum, for the following revisions:
  - 1. Added detail numbers.
  - 2. Revised Elevation Key Notes item 7.
  - 3. Added A1 Brick and Stone Type Notes designation.

### 2. Sheet M-501

- A. Refer to revised full size drawing, included in this Addendum, for the following revisions:
  - 1. Added utility set exhaust fans to schedule.
  - 2. Added schedule Note 5.

### 3. Sheet PD102

- A. Refer to revised full size drawing, included in this Addendum, for the following revisions:
  - 1. Revised bathroom groups per updated architectural background.

### 4. Sheet P-102

- A. Refer to revised full size drawing, included in this Addendum, for the following revisions:
  - 1. Revised below floor sanitary and vent piping for new Toilets B-119B AND B-119A.

### 5. Sheet P-112

- A. Refer to revised full size drawing, included in this Addendum, for the following revisions:
  - 1. Revised domestic CW, HW, HWR and vent piping for new Toilets B-119B and B-119A.

### 6. Sheet ED102

- A. Refer to revised full size drawing, included in this Addendum, for the following revisions:
  - 1. Add notes for panels to be removed vs replaced.

### 7. Sheet ED103

- A. Refer to revised full size drawing, included in this Addendum, for the following revisions:
  - 1. Revise note for generator to remain.

**8. Sheets EL101, EL102 and EL103**

A. Refer to three (3) revised full size drawings, included in this Addendum, for the following revisions:

1. Add circuiting sheet notes.

**9. Sheets EP101 and EP102**

A. Refer to two (2) revised full size drawings, included in this Addendum, for the following revisions:

1. Revise panel designations as shown.
2. Delete (1) new panel, not required.

**10. Sheet EP103**

A. Refer to revised full size drawing, included in this Addendum, for the following revisions:

1. Revise generator note to indicate existing generator to remain.

**11. Sheet E-603**

A. Refer to revised full size drawing, included in this Addendum, for the following revisions:

1. Revise panel schedule sizing and main as shown.

**12. Sheet E-604**

A. Add new Sheet E-604, included in this Addendum, to bid set.

**13. Sheet T-001**

A. Refer to revised full size drawing, included in this Addendum, for updated FP/TV symbol.

**14. Sheet T-401**

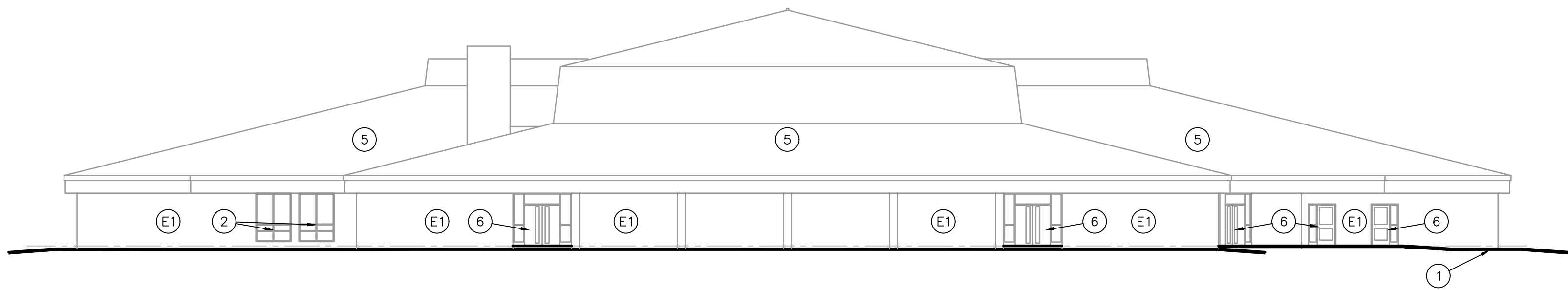
A. Refer to revised full size drawing, included in this Addendum, for updated rack diagram.

Pages 1 through 2, inclusive, and Seventeen (17) Full-Size Drawings, constitute the total makeup of **Addendum Two**.

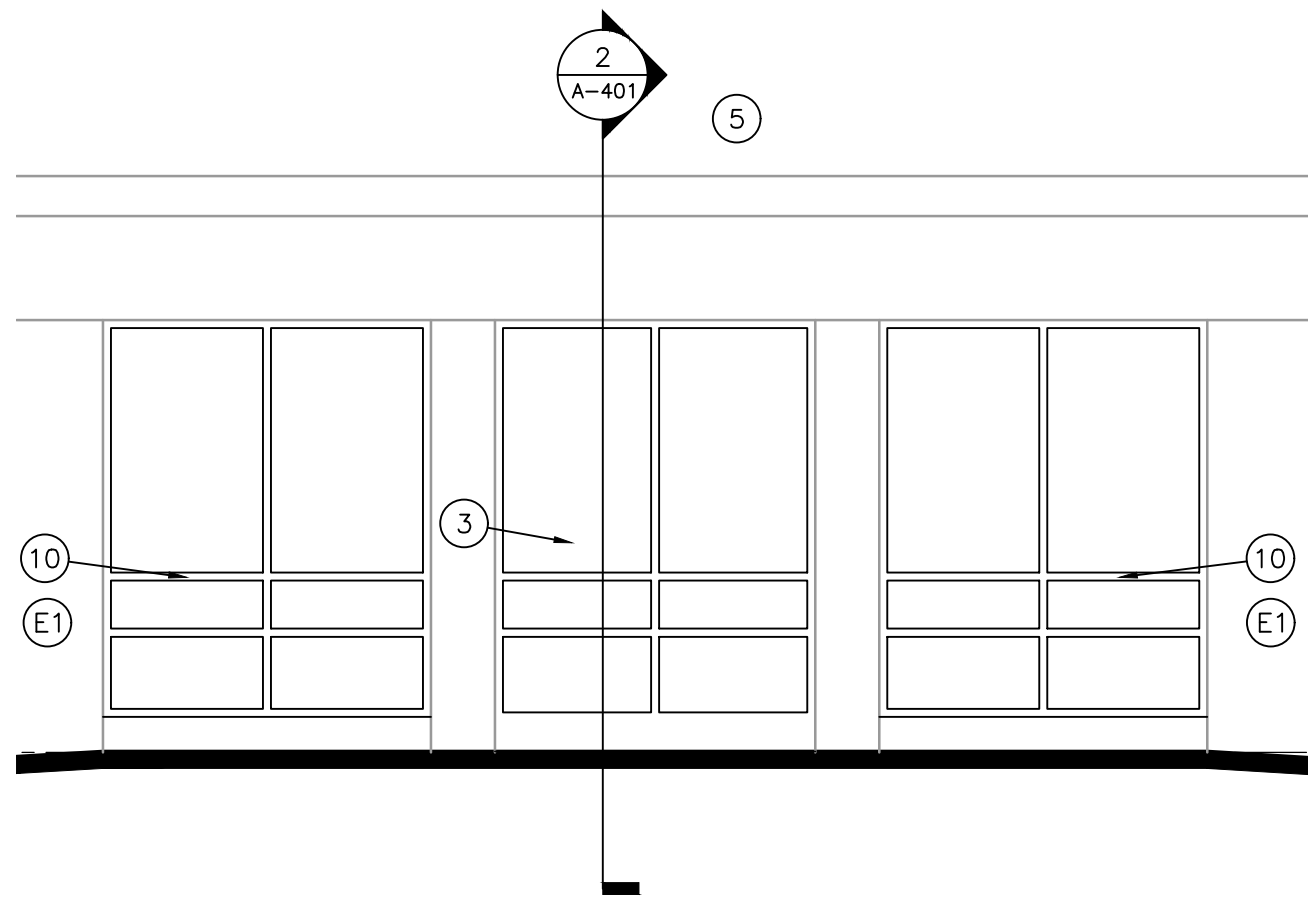
**GIBRALTAR**

DESIGN

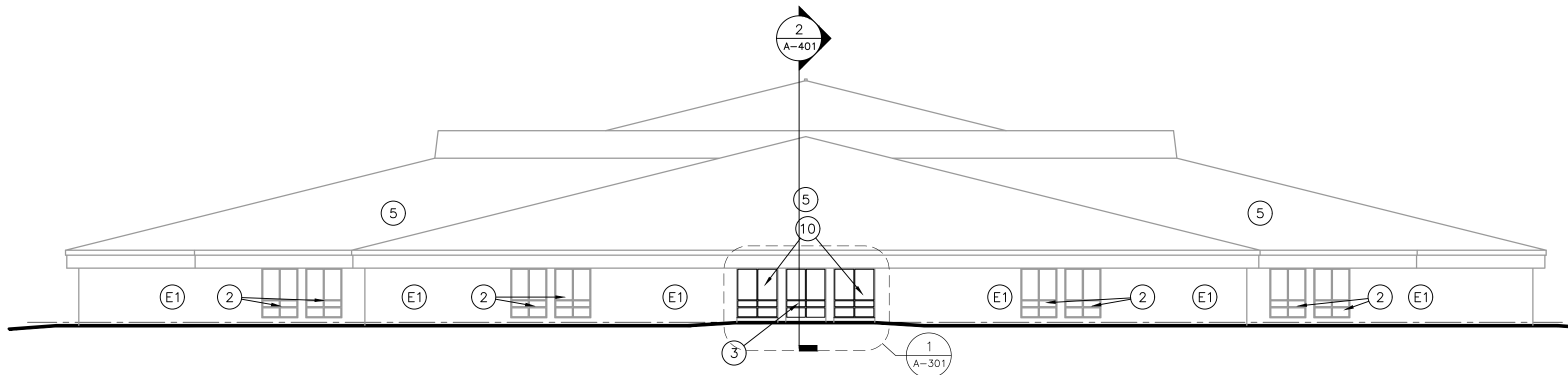
Y:\21-143 Duneland SC - Jackson ES Additions and Renovations\Specs\ADDENDUM TWO\AD02.docx



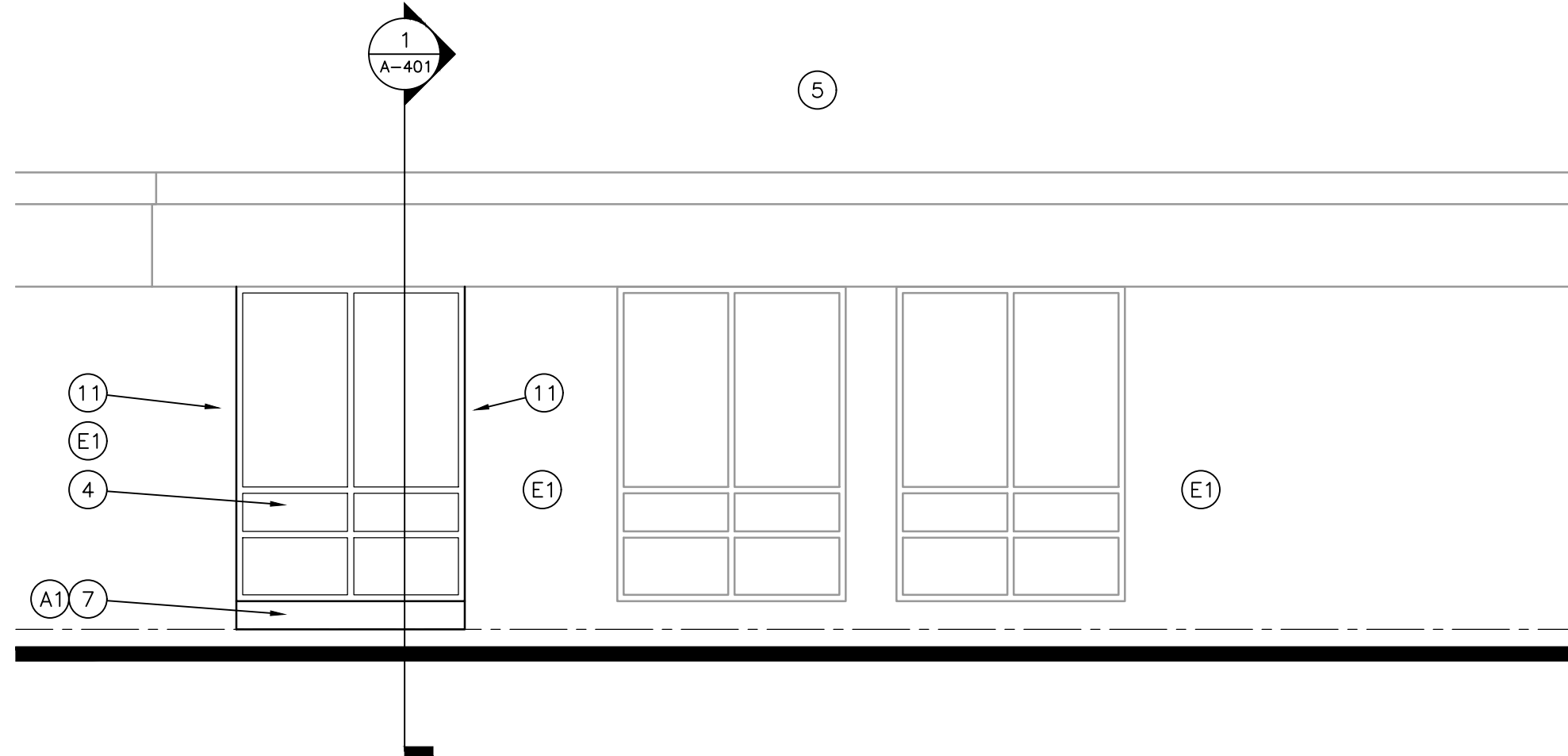
OVERALL NORTH EXTERIOR ELEVATION  
SCALE: 1/16" = 1'-0"



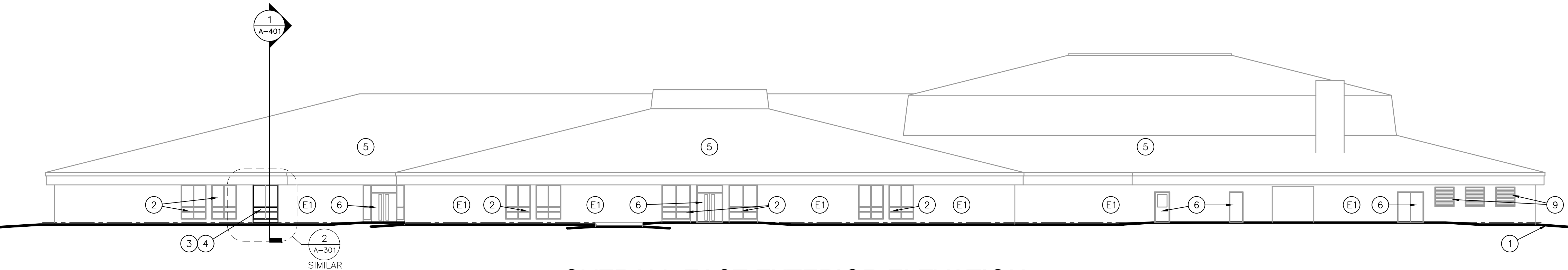
DETAIL: ELEVATION  
SCALE: 1/4" = 1' - 0"



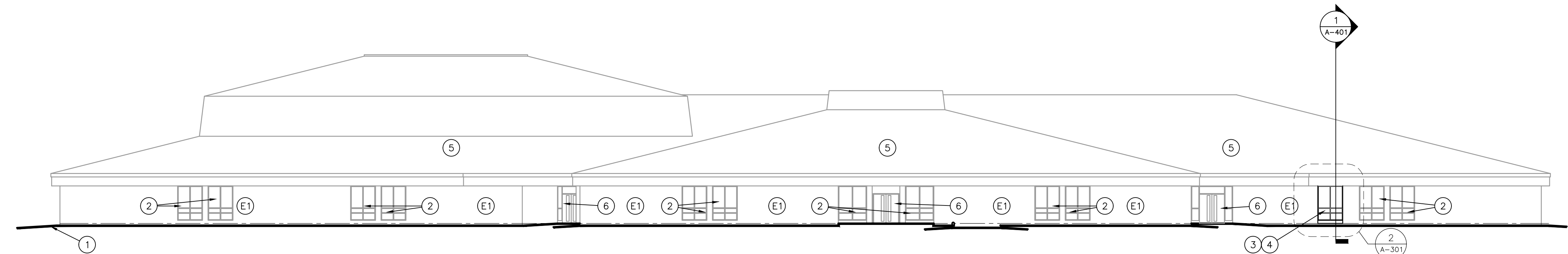
OVERALL SOUTH EXTERIOR ELEVATION  
SCALE: 1/16" = 1'-0"



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



OVERALL EAST EXTERIOR ELEVATION  
SCALE: 1/16" = 1'-0"



OVERALL WEST EXTERIOR ELEVATION  
SCALE: 1/16" = 1'-0"

GENERAL ELEVATION NOTES:

- A. REFER TO STRUCTURAL DRAWINGS FOR FOUNDATION WALLS AND FOOTINGS.
- B. REFER TO FLOOR PLANS FOR EXTERIOR WALL SECTIONS CUTS, UNLESS INDICATED OTHERWISE.
- C. FOR LOCATION AND MOUNTING HEIGHTS OF CAMERAS, SPEAKERS, LIGHTS, HORNS, ETC. REFER TO ELECTRICAL AND TECHNOLOGY DRAWINGS.
- D. ALL NEW FACE BRICK SHALL BE MODULAR RUNNING BOND UNLESS NOTED OTHERWISE.
- E. FINISH GRADE INDICATES ON ELEVATIONS ARE FOR DRAWING PURPOSES ONLY. REFER TO CIVIL DRAWINGS FOR ACTUAL GRADES. COORDINATE STEPPED FLASHINGS WITH ACTUAL GRADES AS REQUIRED FOR CELL VENTS TO BE ABOVE GRADE.
- F. STEP BRICK LEDGE DOWN AS REQUIRED FOR LEDGE TO BE BELOW GRADE OR CONCRETE WALK. COORDINATE WITH CIVIL DRAWINGS.

ELEVATION KEY NOTES:

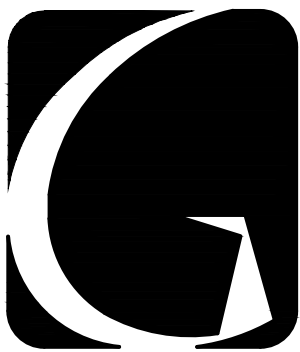
(ALL PLAN NOTES MAY NOT BE INDICATED ON THIS SHEET.)

- 1 APPROXIMATE FINISH GRADE, REFER TO CIVIL DRAWINGS.
- 2 EXISTING WINDOW SYSTEM TO REMAIN.
- 3 ALUMINUM WINDOW SYSTEM.
- 4 ALUMINUM WINDOW WITH ALUMINUM SILL.
- 5 EXISTING ROOF TO REMAIN.
- 6 EXISTING DOOR/STOREFRONT TO REMAIN.
- 7 FACE BRICK SOLDIER COURSE.
- 8 SPANDREL GLAZING, REFER TO WINDOW/STOREFRONT ELEVATIONS.
- 9 EXISTING LOUVERS TO REMAIN.
- 10 REMOVE INSULATED GLAZING FROM EXISTING ALUMINUM FRAMES. FRAMES TO REMAIN.
- 11 TOOTH-IN INTO EXISTING FACE BRICK. MATCHING EXISTING COURSING.

BRICK & STONE TYPE NOTES:

(ALL ELEVATION NOTES MAY NOT BE INDICATED ON THIS PLAN)

- (E) EXISTING FACE BRICK TO REMAIN.
- (A) SALVAGED EXISTING FACE BRICK INSTALLED IN NEW SOLDIER COURSE.

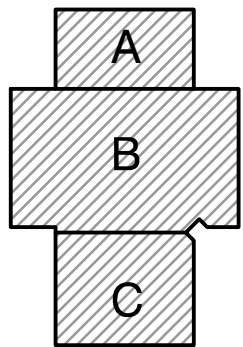


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PROJECT

**JACKSON  
ELEMENTARY  
SCHOOL -  
RENOVATIONS**

DUNELAND SCHOOL CORPORATION  
CHESTERTON, INDIANA



KEY PLAN

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PROJECT

21-143

DATE

10/31/22

COORDINATED BY

JMG

DRAWN BY

JMG

CHECKED BY

DJW

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REVISIONS

| MARK | DATE     | ISSUED FOR     |
|------|----------|----------------|
| AD-2 | 11/16/22 | ADDENDUM NO. 2 |

DRAWING

**OVERALL BUILDING  
ELEVATIONS**

PROJECT

JACKSON ES - RENOVATIONS

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SHEET

**A-301**

[illegible]

NOTE 3:  
 PROVIDE WITH:

- DISCONNECT SWITCH
- MOTORIZED BACKDRAFT DAMPER
- BIRD SCREEN
- ROOF CURB

SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

**NOTE 4:**  
**PROVIDE WITH:**  
**WALL MOUNTED AC UNIT:**

- THERMOSTAT
- CONDENSATE PUMP

**CONDENSING UNIT:**

- LOW AMBIENT CONTROLS FOR 100% COOLING CAPACITY DOWN TO 0°F
- WIND BAFFLES
- HAIL GUARDS

**SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS**

AD-2

**NOTE 5:**  
**PROVIDE WITH**

- DISCONNECT SWITCH
- EC MOTORS
- SPRING TYPE VIBRATION ISOLATION MOUNTS
- INLET FLANGE

**SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS**

| PUMP SCHEDULE |                |                     |                                 |     |               |                 |      |      |       |     |                    |                               |           |   |
|---------------|----------------|---------------------|---------------------------------|-----|---------------|-----------------|------|------|-------|-----|--------------------|-------------------------------|-----------|---|
| TAG           | MANUFACTURER   | MODEL NUMBER        | DESCRIPTION                     | GPM | HEAD<br>(FT.) | PUMP MOTOR DATA |      |      |       |     |                    | SUCTION/<br>DISCHARGE<br>SIZE | REMARKS   |   |
|               |                |                     |                                 |     |               | HP              | RFM  | VOLT | PHASE | HZ. | STARTER<br>MC. EC. |                               |           |   |
| CP-1          | BELL & GOSSETT | SERIES E-80, 5x5x15 | CHILLER PUMP                    | 308 | 20            | 3               | 1750 | 400  | 3     | 60  | X                  | -                             | 5" / 5"   | - |
| CWP-1         | BELL & GOSSETT | SERIES 1510, 2B0    | CHILLED WATER DISTRIBUTION PUMP | 154 | 50            | 5               | 1750 | 400  | 3     | 60  | X                  | -                             | 2.5" / 2" | - |
| CWP-2         | BELL & GOSSETT | SERIES 1510, 2B0    | CHILLED WATER DISTRIBUTION PUMP | 154 | 50            | 5               | 1750 | 400  | 3     | 60  | X                  | -                             | 2.5" / 2" | - |

| GRILLE, REGISTER & DIFFUSER SCHEDULE |              |           |                            |                   |                      |           |                       |                                           |
|--------------------------------------|--------------|-----------|----------------------------|-------------------|----------------------|-----------|-----------------------|-------------------------------------------|
| TAG                                  | MANUFACTURER | MODEL NO. | DESCRIPTION                | AIR PATTERN       | MOUNTING             | SIZE      | TYPE OF CONTROL       | REMARKS                                   |
| A3                                   | NAILOR       | 6500-O    | SUPPLY CEILING DIFFUSER    | 3-WAY             | 2' X 2' LAY-IN PANEL | SEE PLANS | O.B.D.                | -                                         |
| A4                                   | NAILOR       | 6500-O    | SUPPLY CEILING DIFFUSER    | 4-WAY             | 2' X 2' LAY-IN PANEL | SEE PLANS | O.B.D.                | -                                         |
| A8                                   | NAILOR       | 6500-O    | SUPPLY CEILING DIFFUSER    | 3-WAY             | 2' X 1' LAY-IN PANEL | SEE PLANS | O.B.D.                | -                                         |
| B3                                   | NAILOR       | 6500-O    | SUPPLY CEILING DIFFUSER    | 3-WAY             | SURFACE MOUNTED      | SEE PLANS | O.B.D.                | -                                         |
| B4                                   | NAILOR       | 6500-O    | SUPPLY CEILING DIFFUSER    | 4-WAY             | SURFACE MOUNTED      | SEE PLANS | O.B.D.                | -                                         |
| E1                                   | NAILOR       | 61DH-O    | SUPPLY CEILING REGISTER    | DOUBLE DEFLECTION | 2' X 1' LAY-IN PANEL | SEE PLANS | O.B.D.                | HORIZONTAL FRONT BARS, VERTICAL BACK BARS |
| E2                                   | NAILOR       | 61DH-O    | SUPPLY CEILING REGISTER    | DOUBLE DEFLECTION | SURFACE MOUNTED      | SEE PLANS | O.B.D.                | HORIZONTAL FRONT BARS, VERTICAL BACK BARS |
| K1                                   | NAILOR       | 61DHC     | SUPPLY REGISTER            | DOUBLE DEFLECTION | DUCT MOUNTED         | SEE PLANS | FULL LENGTH EXTRACTOR | PROVIDE w/ MILL FINISH                    |
| K2                                   | NAILOR       | 6145HC    | RETURN/EXHAUST/T.A. GRILLE | LOUVERED GRILLE   | DUCT MOUNTED         | SEE PLANS | FULL LENGTH EXTRACTOR | PROVIDE w/ MILL FINISH                    |
| R1                                   | NAILOR       | 6145H-O   | RETURN/EXHAUST REGISTER    | LOUVERED GRILLE   | LAY-IN PANEL         | SEE PLANS | O.B.D.                | -                                         |
| R2                                   | NAILOR       | 6145H-O   | RETURN/EXHAUST REGISTER    | LOUVERED GRILLE   | SURFACE MOUNTED      | SEE PLANS | -                     | -                                         |
| T1                                   | NAILOR       | 6145H     | RETURN/EXHAUST/T.A. GRILLE | LOUVERED GRILLE   | LAY-IN PANEL         | SEE PLANS | -                     | -                                         |
| T2                                   | NAILOR       | 6145H     | RETURN/EXHAUST/T.A. GRILLE | LOUVERED GRILLE   | SURFACE MOUNTED      | SEE PLANS | -                     | -                                         |

\* ALL DIFFUSERS AND REGISTERS SHALL HAVE A WHITE FINISH UNLESS OTHERWISE NOTED

| EX AH-JA1 VAV TERMINAL SCHEDULE |              |          |               |             |            |                     |     |     |     |                  |                      |         |
|---------------------------------|--------------|----------|---------------|-------------|------------|---------------------|-----|-----|-----|------------------|----------------------|---------|
| TAG                             | MANUFACTURER | MODEL    | INLET<br>DIA. | CRM SETTING |            | HW REHEAT COIL DATA |     |     |     | CONTROL SEQUENCE |                      | REMARKS |
|                                 |              |          |               | MAX<br>CRM  | MIN<br>CRM | MBH                 | GPM | WPD | EUT | OPEN/<br>CLOSED  | OPEN/CLOSED/<br>OPEN |         |
| 1A                              | NAILOR       | D30RW-08 | 8"            | 575         | 155        | 18.7                | 1.3 | 5"  | 100 | -                | X                    | -       |

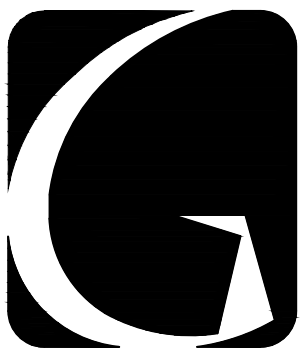
| EX AH-JA2 VAV TERMINAL SCHEDULE |              |          |               |             |             |                     |     |     |     |                  |                      |         |
|---------------------------------|--------------|----------|---------------|-------------|-------------|---------------------|-----|-----|-----|------------------|----------------------|---------|
| TAG                             | MANUFACTURER | MODEL    | INLET<br>DIA. | CFM SETTING |             | HW REHEAT COIL DATA |     |     |     | CONTROL SEQUENCE |                      | REMARKS |
|                                 |              |          |               | MAX.<br>CFM | MIN.<br>CFM | MBH                 | GPM | WPD | EWT | OPEN/<br>CLOSED  | OPEN/CLOSED/<br>OPEN |         |
| 2A                              | NAILOR       | D30RW-05 | 5"            | 240         | 600         | 6.5                 | 0.1 | 5"  | 180 | X                | -                    | -       |
| 2B                              | NAILOR       | D30RW-08 | 8"            | 800         | 2200        | 21.7                | 2.2 | 5"  | 180 | X                | -                    | -       |

| EX AH-JA4 VAV TERMINAL SCHEDULE |              |          |               |             |            |                     |     |     |     |                  |                      |         |
|---------------------------------|--------------|----------|---------------|-------------|------------|---------------------|-----|-----|-----|------------------|----------------------|---------|
| TAG                             | MANUFACTURER | MODEL    | INLET<br>DIA. | CRM SETTING |            | HW REHEAT COIL DATA |     |     |     | CONTROL SEQUENCE |                      | REMARKS |
|                                 |              |          |               | MAX<br>CRM  | MIN<br>CRM | MBW                 | GPM | WPD | EUT | OPEN/<br>CLOSED  | OPEN/CLOSED/<br>OPEN |         |
| 4-8                             | NAILOR       | D30RW-08 | 8"            | 610         | 125        | 182                 | 1.8 | 5'  | 180 | X                | -                    | -       |









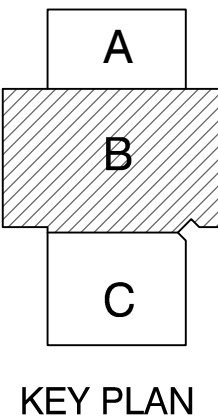
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PROJECT  
**JACKSON  
ELEMENTARY  
SCHOOL -  
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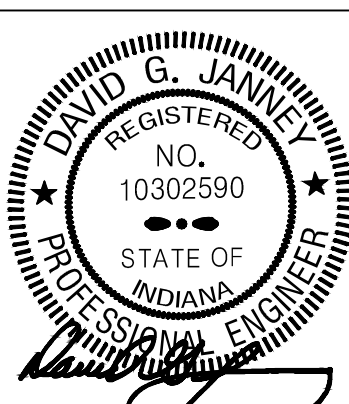
DUNELAND SCHOOL CORPORATION  
CHESTERTON, INDIANA



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PROJECT  
21-143  
DATE  
10/31/22  
COORDINATED BY  
JC  
DRAWN BY  
MDG,CC  
CHECKED BY  
DJ



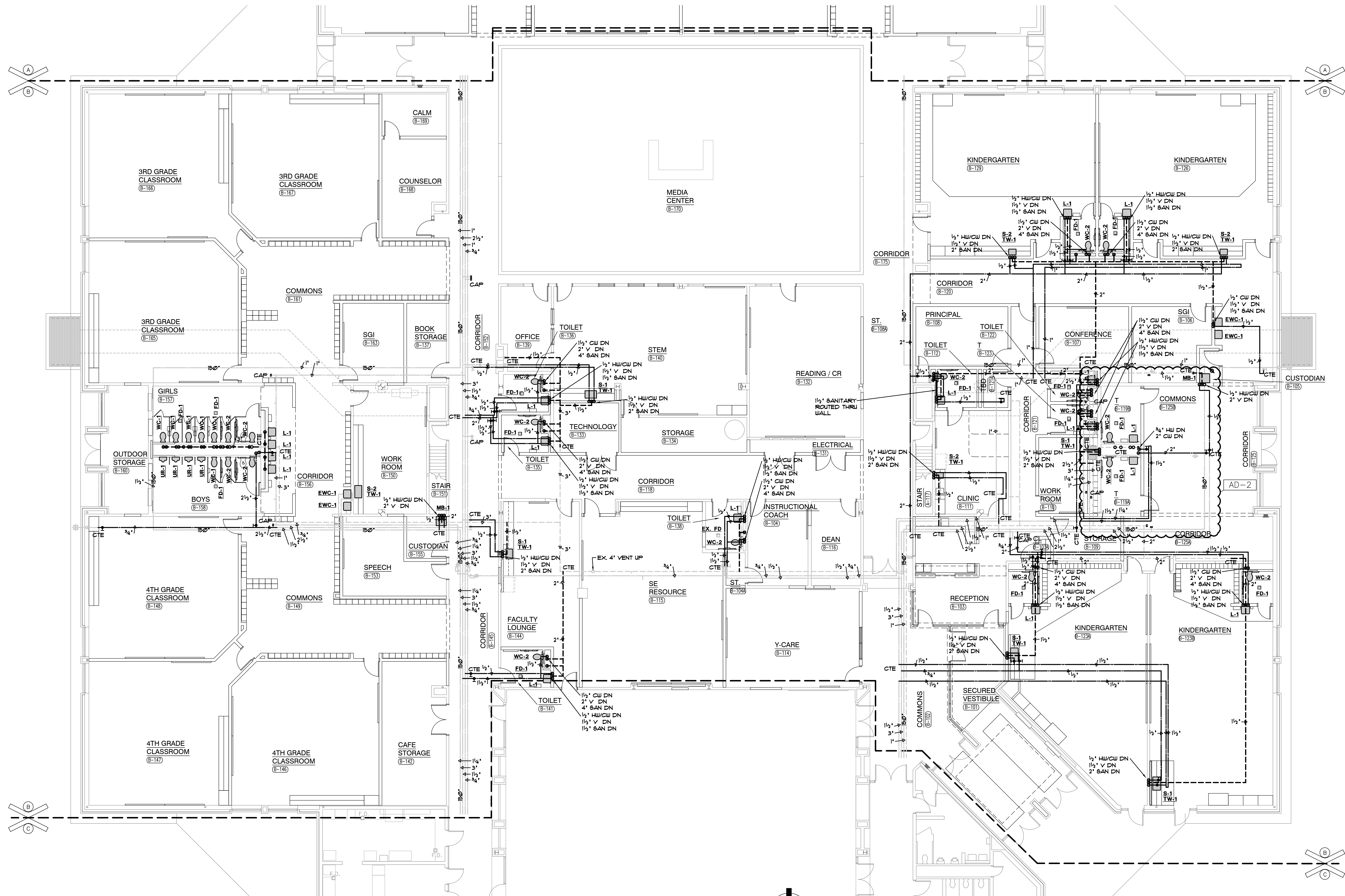
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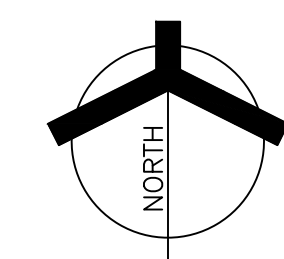
DRAWING  
**UNIT "B" PLUMBING FIRST  
FLOOR PLAN**

PROJECT  
**JACKSON ES -  
ADDITIONS & RENOVATIONS**

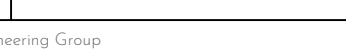
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**B P-112**



**UNIT "B" PLUMBING FIRST FLOOR PLAN**  
SCALE: 1/8" = 1'-0"











JACKSON  
ELEMENTARY  
SCHOOL -  
RENOVATIONS

KEY PLAN

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|                                                                                                       |                                                                                       |
|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| PROJECT<br>21-143<br>DATE<br>10/31/22<br>COORDINATED BY<br>JC<br>DRAWN BY<br>MS<br>CHECKED BY<br>D.L. |  |
|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|

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| MARK      | DATE     | ISSUED FOR     |
| AD-2      | 11/16/22 | ADDENDUM NO. 2 |

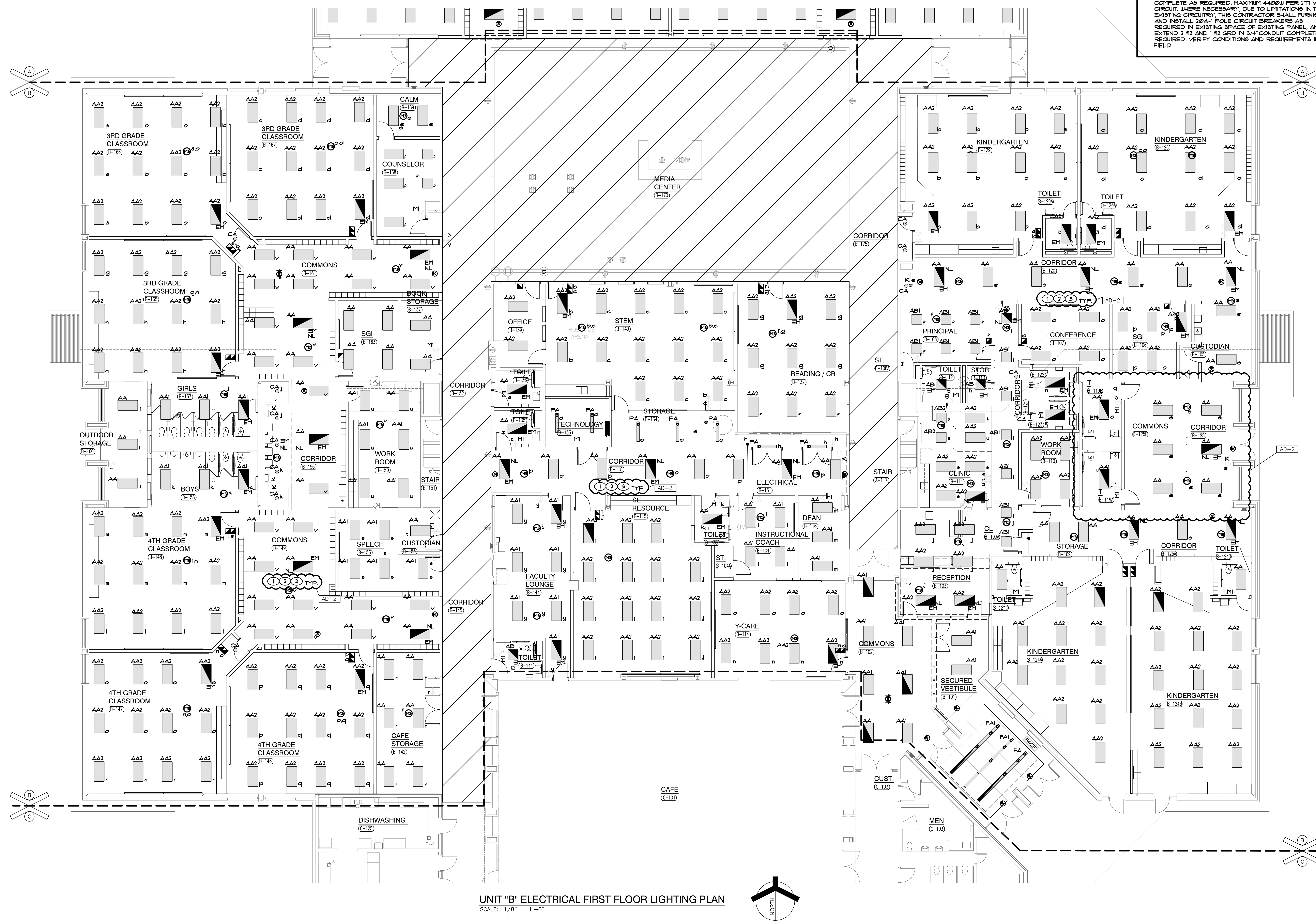
PROJECT  
JACKSON ES -  
ADDITIONS & RENOVATIONS

SHEET

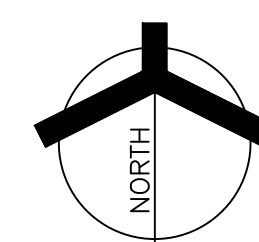
EL102

|                                                                                                                                                                                                                                                                                                                                                        |      |                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. NOT USED.                                                                                                                                                                                                                                                                                                                                           | AD-2 | 6. EMERGENCY SENSING LEADS SHALL BE CONNECTED TO CONSTANT HOT FEEDS FROM NATURAL LIGHTING IN ROOM. THIS FEED SHALL BE TAKEN AHEAD OF ANY EMERGENCY SHUTDOWNS, RELAYS, CONTACTORS OR SWITCHES. |
| 2. SHAPED FIXTURES, FIXTURES WITH 'EM' TAGS AND EXIT SIGNS SHALL BE PROVIDED WITH AN EMERGENCY LIFE SAFETY POWER SOURCE.                                                                                                                                                                                                                               |      | 7. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR LOCATION OF ALL CEILING MOUNTED LIGHT FIXTURES.                                                                                          |
| 3. EXIT SIGNS SHALL BE CONNECTED TO CIRCUIT INDICATED IN EMERGENCY LIFE SAFETY PANEL.                                                                                                                                                                                                                                                                  |      | 8. ROUTE CONDUIT AS TIGHT TO THE EXPOSED CEILINGS AND STRUCTURE AS POSSIBLE TO MAXIMIZE CEILING SPACE.                                                                                        |
| 4. FIXTURES WITH A 'NL' TAG SHALL BE CONNECTED TO THE LIGHT LOGIC INDICATED IN EMERGENCY LIFE SAFETY PANEL.                                                                                                                                                                                                                                            |      | 9. VERIFY TEACHING SURFACE WITH OWNER'S REPRESENTATIVE IN FIELD PRIOR TO INSTALLATION AND ADJUST SWITCHING TO MATCH TEACHING SURFACE.                                                         |
| 5. CIRCUIT TAGS WITH AN 'E' PREFIX SHOWN WITH A SWITCH LOG SHALL BE A SWITCHED EMERGENCY FIXTURE. THE FIXTURE SHALL BE PROVIDED WITH A UL924 RATED BYPASS DEVICE TO ALLOW THE FIXTURE TO BE CONTROLLED ALONG WITH THE NORMAL FIXTURES IN THE ROOM. UPON LOSS OF POWER, THE FIXTURE SHALL BE IMMEDIATELY POWERED TO 100% REGARDLESS OF SWITCH POSITION. |      | 10. CAREFULLY COORDINATE FINAL SWITCHING WITH FINAL FURNITURE PLANS AND TEACHING WALL LOCATIONS.                                                                                              |

1. RECONNECT NEW LIGHTING FIXTURES IN THIS SPACE TO EXISTING LIGHTING CIRCUITRY AND NEW SWITCHING DEVICES, COMPLETE AS REQUIRED, MAXIMUM 4000FT PER 171 VOLT CIRCUIT; WHERE NECESSARY, DUE TO EXTENSIONS IN THIS SPACE, THIS CONTRACTOR SHALL FURNISH AND INSTALL 20A-1 POLE CIRCUIT BREAKERS AS REQUIRED IN EXISTING SPACE OF EXISTING PANEL, AND 1/2" AND 1/2" GED IN 3/4" CONDUIT COMPLETE AS REQUIRED, VERIFY CONDITIONS AND REQUIREMENTS IN FIELD.
2. RECONNECT NEW EMERGENCY LIGHTING FIXTURES TO EXISTING EMERGENCY LIGHTING CIRCUITRY AND NEW SWITCHING DEVICES, COMPLETE AS REQUIRED, MAXIMUM 4000FT PER 171 VOLT CIRCUIT; WHERE NECESSARY, THIS CONTRACTOR SHALL FURNISH AND INSTALL 20A-1 POLE CIRCUIT BREAKERS AS REQUIRED IN EXISTING SPACE OF EXISTING PANEL, AND 1/2" AND 1/2" GED IN 3/4" CONDUIT COMPLETE AS REQUIRED, VERIFY CONDITIONS AND REQUIREMENTS IN FIELD.
3. RECONNECT NEW EXIT SIGN LIGHTING FIXTURES TO EXISTING EXIT SIGN EMERGENCY LIGHTING CIRCUITRY AND NEW SWITCHING DEVICES, COMPLETE AS REQUIRED, MAXIMUM 4000FT PER 171 VOLT CIRCUIT; WHERE NECESSARY, DUE TO LIMITATIONS IN THE EXISTING CIRCUITRY, THIS CONTRACTOR SHALL FURNISH AND INSTALL 20A-1 POLE CIRCUIT BREAKERS AS REQUIRED IN EXISTING SPACE OF EXISTING PANEL, AND 1/2" AND 1/2" GED IN 3/4" CONDUIT COMPLETE AS REQUIRED, VERIFY CONDITIONS AND REQUIREMENTS IN



UNIT "B" ELECTRICAL FIRST FLOOR LIGHTING PLAN  
SCALE: 1/8" = 1'-0"



1. NOT USED.

AD - 2

2. SHADED FIXTURES, FIXTURES WITH 'E' TAGS AND EXIT SIGNS SHALL BE PROVIDED WITH AN EMERGENCY LIFE SAFETY POWER SOURCE.

3. EXIT SIGNS SHALL BE CONNECTED TO CIRCUIT INDICATED IN EMERGENCY LIFE SAFETY PANEL.

4. FIXTURES WITH A 'NL' TAG SHALL BE CONNECTED TO THE NIGHT LIGHT CIRCUIT INDICATED IN EMERGENCY LIFE SAFETY PANEL.

5. CIRCUIT TAGS WITH AN 'E' PREFIX SHOWN WITH A SWITCH LEG SHALL BE A SWITCHED EMERGENCY FIXTURE. THE FIXTURE SHALL BE PROVIDED WITH A TAG INDICATING THE SWITCH TO ALLOW THE FIXTURE TO BE CONTROLLED ALONG WITH THE NORMAL FIXTURES IN THE ROOM. UPON LOSS OF POWER, THE FIXTURE SHALL BE IMMEDIATELY POWERED TO 100% REGARDLESS OF SWITCH POSITION.

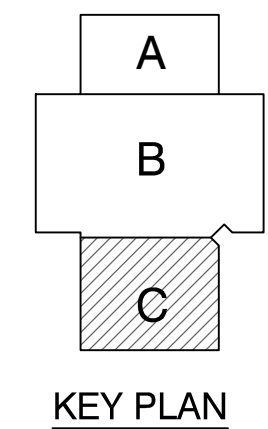
6. EMERGENCY SENSING LEADS SHALL BE CONNECTED TO CONSTANT HOT FEEDS FROM NORMAL LIGHTING IN ROOM. THIS FEED SHALL BE RUN WELL AHEAD OF ANY EMERGENCY SHUTDOGS, RELAYS, CONTACTORS OR SWITCHES.

7. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING MOUNTED LIGHT FIXTURES.

8. ROUTE CONDUIT AS TIGHT TO THE EXPOSED CEILING AND STRUCTURE AS POSSIBLE TO MAXIMIZE CEILING SPACE.

9. VERIFY TEACHING SURFACE WITH OWNER'S REPRESENTATIVE IN FIELD PRIOR TO INSTALLATION AND POSITION ALL SWITCHES TO PROPERLY ILLUMINATE TEACHING SURFACE. CAREFULLY COORDINATE FINAL SWITCHING WITH FINAL FURNITURE PLANS AND TEACHING WALL LOCATIONS.

1. RECONNECT NEW LIGHTING FIXTURES IN THIS SPACE TO EXISTING LIGHTING CIRCUITRY AND NEW SWITCHING DEVICES, COMPLETE AS REQUIRED, MAXIMUM 4400W PER 211 VOLT CIRCUIT. WHERE NECESSARY, DUE TO LIMITATIONS IN THE EXISTING CIRCUITRY, THIS CONTRACTOR SHALL FURNISH AND INSTALL 20A-1 POLE CIRCUIT BREAKERS AS REQUIRED IN EXISTING SPACE OF EXISTING EMERGENCY PANEL, AND EXTEND 2" AND 1" #2 GND IN 3/4" CONDUIT COMPLETE AS REQUIRED, VERIFY CONDITIONS AND REQUIREMENTS IN FIELD.
2. RECONNECT NEW EMERGENCY LIGHTING FIXTURES TO EXISTING EMERGENCY LIGHTING CIRCUITRY AND NEW SWITCHING DEVICES, COMPLETE AS REQUIRED, MAXIMUM 4400W PER 211 VOLT CIRCUIT. PROVIDE UL34A RELAY DEVICE AS REQUIRED TO ACCOMPLISH REQUIRED EMERGENCY SWITCHING FUNCTION. WHERE NECESSARY, DUE TO LIMITATIONS IN THE EXISTING CIRCUITRY, THIS CONTRACTOR SHALL FURNISH AND INSTALL 20A-1 POLE CIRCUIT BREAKERS AS REQUIRED IN EXISTING SPACE OF EXISTING EMERGENCY PANEL, AND EXTEND 2" AND 1" #2 GND IN 3/4" CONDUIT COMPLETE AS REQUIRED, VERIFY CONDITIONS AND REQUIREMENTS IN FIELD.
3. RECONNECT NEW EXIT SIGN LIGHTING FIXTURES TO EXISTING EXIT SIGN EMERGENCY LIGHTING CIRCUITRY, COMPLETE AS REQUIRED, MAXIMUM 4400W PER 211 VOLT CIRCUIT. WHERE NECESSARY, DUE TO LIMITATIONS IN THE EXISTING CIRCUITRY, THIS CONTRACTOR SHALL FURNISH AND INSTALL 20A-1 POLE CIRCUIT BREAKERS AS REQUIRED IN EXISTING SPACE OF EXISTING EMERGENCY PANEL, AND EXTEND 2" AND 1" #2 GND IN 3/4" CONDUIT COMPLETE AS REQUIRED, VERIFY CONDITIONS AND REQUIREMENTS IN FIELD.



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|                                                                                                     |                                                                                       |
|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| PROJECT<br>21-143<br>DATE<br>10/31/22<br>COORDINATED BY<br>JC<br>DRAWN BY<br>MS<br>CHECKED BY<br>DJ |  |
|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|

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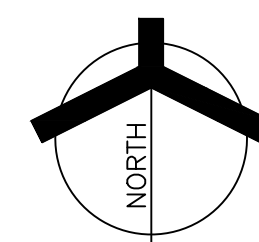
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| AD-2      | 11/16/22 | ADDENDUM NO. 2 |

DRAWING  
UNIT "C" ELECTRICAL  
FIRST FLOOR LIGHTING  
PLAN

PROJECT  
JACKSON ES -  
ADDITIONS & RENOVATIONS

|                   |       |
|-------------------|-------|
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UNIT "C" ELECTRICAL FIRST FLOOR LIGHTING PLAN  
SCALE: 1/8" = 1'-0"





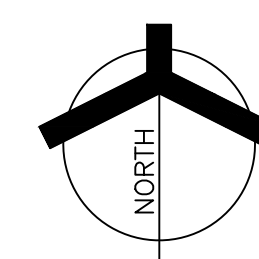
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SCHOOL -  
RENOVATIONS

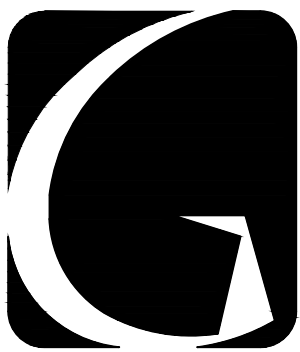
KEY PLAN

DAVID G. JANNEY  
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STATE OF INDIANA  
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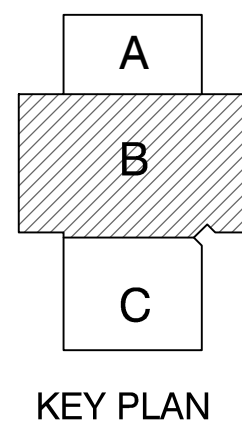
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PROJECT  
**JACKSON  
ELEMENTARY  
SCHOOL -  
RENOVATIONS**

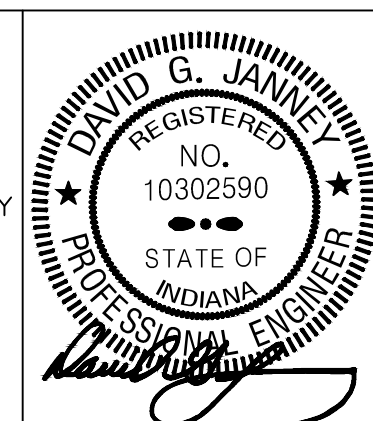
DUNELAND SCHOOL CORPORATION  
CHESTERTON, INDIANA



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PROJECT  
21-143  
DATE  
10/31/22  
COORDINATED BY  
JC  
DRAWN BY  
MS  
CHECKED BY  
DJ



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| AD-2      | 11/08/22 | ADDENDUM NO. 2 |            |

DRAWING  
**UNIT "B" ELECTRICAL  
FIRST FLOOR POWER  
PLAN**

PROJECT  
**JACKSON ES -  
ADDITIONS & RENOVATIONS**

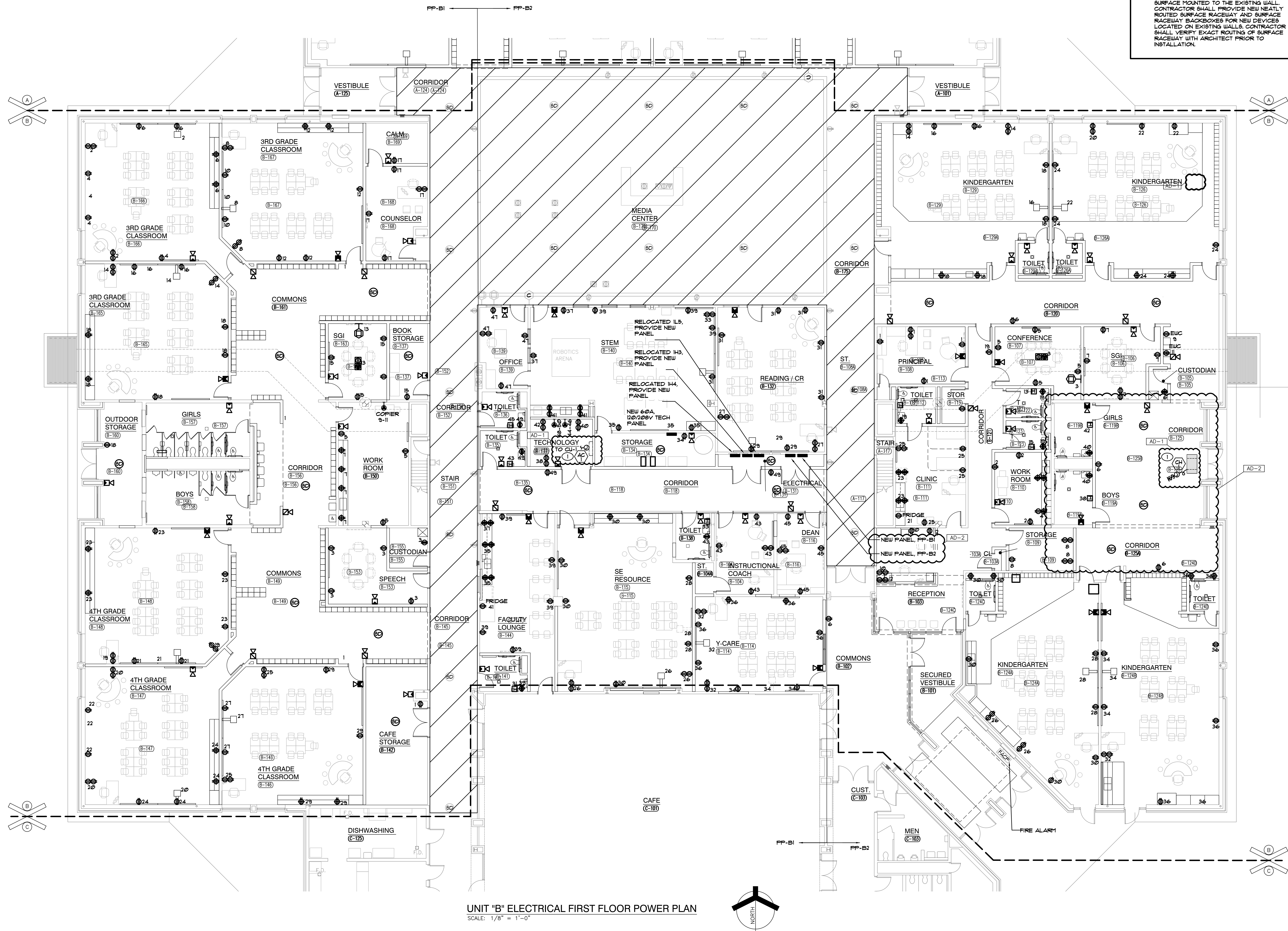
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**B EP102**

## SHEET NOTES

- REFER TO MECHANICAL EQUIPMENT CONNECTION  
SCHEDULE FOR ELECTRICAL CIRCUITING AND  
WIRING REQUIREMENTS.

## GENERAL NOTES

- CIRCUIT ALL DEVICES TO PANELS PP-B1 AND  
PP-B2. REFER TO DEMARCATION LINES FOR  
ADDITIONAL INFORMATION.
- REFER TO LOW VOLTAGE DRAWING FOR  
ROUGH-IN AND RACEWAY INFORMATION FOR  
ACCESS CONTROL, SOUND SYSTEMS,  
TECHNOLOGY SYSTEMS AND EQUIPMENT. SEE  
TECHNOLOGY DRAWINGS AND SPECIFICATIONS  
FOR LOCATIONS OF DEVICES/EQUIPMENT.  
MOUNTING HEIGHTS AND ELECTRICAL  
REQUIREMENTS. COORDINATE AND VERIFY  
EXACT LOCATIONS OF ALL OF THESE  
ROUGH-INS AND REQUIREMENTS WITH TECH  
DYNE ARCHITECT, OWNER, CONSTRUCTION  
MANAGER AND DIVISION 21 CONTRACTOR  
PRIOR TO ROUGH-IN.
- ALL DEVICES WITH BOX BASES SHALL BE  
SURFACE MOUNTED TO THE EXISTING WALL.  
CONTRACTOR SHALL PROVIDE NEW NEATLY  
ROUTED SURFACE RACEWAY AND SURFACE  
RACEWAY BACKBOXES FOR NEW DEVICES  
LOCATED ON EXISTING WALLS. CONTRACTOR  
SHALL VERIFY EXACT ROUTING OF SURFACE  
RACEWAY WITH ARCHITECT PRIOR TO  
INSTALLATION.



**UNIT "B" ELECTRICAL FIRST FLOOR POWER PLAN**

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





# ELECTRICAL ONE-LINE SCHEMATIC DIAGRAM

EXISTING ELECTRICAL SERVICE

EXISTING UTILITY TRANSFORMER

EX. MDP  
(480/277V, 3 $\phi$ , 4W)  
800A

400A/3P  
400AF

400A/3P  
400AF

100A/3P  
100AF

200AS  
200AF

100AS  
100AF

100AS  
100AF

100AS  
100AF

200AS  
200AF

100A/3P  
100AF

100A/3P  
100AF

100AS  
100AF

EXISTING  
200A/3P  
SPACE

UP

EXISTING CHILLER

EXISTING BOOSTER PUMP

EX. PANEL IH1

EX. PANEL IH2

EX. PANEL IH3  
(3)

EX. PANEL IH4  
(3)

EX. PANEL IHI

NEW PANEL IHS  
MLO  
42POLE

NEW PANEL IHH  
MLO  
42POLE

EXISTING SPARE

EX. ILDI  
(120/208V, 3 $\phi$ , 4W)  
600A

100AS  
100AF

100AS  
100AF

100AS  
100AF

100AS  
100AF

100AS  
100AF

100AS  
100AF

100AS  
100AF

100AS  
100AF

200A/3P  
100AF

EXISTING  
200A/3P  
SPACE

100AS  
100AF

EXISTING SPARE

④  
200A/3  
200AF

④  
200A/3  
200AF

④  
200A/3  
200AF

EXISTING  
200A/3P  
SPACE

EX. PANEL ILI

EX. PANEL ILJ

EX. PANEL ILK

EX. PANEL ILL  
(2)

EX. PANEL ILM  
(3)

EX. PANEL ILN  
(2)

REMOVE  
EX. PANEL  
ILT  
(2)

EXISTING LOAD

EXISTING SPARE

4 #10 @ 1' x 4' GROUND  
2-1/2"C

NEW PANEL FP-A

4 #10 @ 1' x 4' GROUND  
2-1/2"C

NEW PANEL FP-B1

4 #10 @ 1' x 4' GROUND  
2-1/2"C

NEW PANEL FP-B2

EXISTING TRANSFORMER 150 KVA

EXISTING TRANSFORMER 15 KVA

EXISTING TRANSFORMER 15 KVA

EXISTING TRANSFORMER 15 KVA

SHEET NOTES

1. REPLACE EXISTING PANEL IN KIND WITH NEW AS INDICATED. UTILIZE EXISTING FEEDER AND RE-CONNECT.

2. EXISTING PANEL TO BE REMOVED COMPLETE AS REQUIRED.

3. EXISTING PANEL TO BE REMOVED, REPLACED, AND RELOCATED. DISCONNECT EXISTING TO RETAIN FEEDER AND BRANCH CIRCUITRY FOR RECONNECTION TO NEW LOCATION OF NEW PANEL. INSTALL AND RECONNECT, COMPLETE AS REQUIRED. VERIFY EXACT CONDITIONS AND REQUIREMENTS IN FIELD. WHERE PANEL IS FED UNDERGROUND, INTERCEPT EXISTING FEEDER AND STUB UP INTO FULL BOX RECEIVED IN NEW WALL AND EXTEND UP TO CEILING SPACE.

4. UTILIZE EXISTING SPACE, PROVIDE NEW FUSED DISCONNECT SWITCH. MATCH EXISTING STYLE AND AIC RATING AS REQUIRED.

125KW 480/277V, 3 $\phi$ , 4W  
NATURAL GAS GENERATOR  
SET WITH INTEGRAL CIRCUIT BREAKERS, PROVIDE ALL POWER, CONTROL AND ALARM WIRING TO BUILDING.

100A/3P  
100A/T

100A/3P  
100A/T

E N L

EX. PANEL IXLH

EXISTING FIRE PUMP CONTROL PANEL

E N L

EX. EH PANEL IXLH

EXISTING TRANSFORMER 15 KVA

EX. EH PANEL IXLH

NEW SHEET ADDED TO  
CONSTRUCTION DOCUMENTS  
IN THIS ADDENDUM



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PROJECT

# JACKSON ELEMENTARY SCHOOL - ADDITIONS & RENOVATIONS

DUNELAND SCHOOL CORPORATION  
CHESTERTON, INDIANA

| SCOPE OF WORK |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (1)           | "T" SERIES DRAWINGS BEING ISSUED FOR SCOPE AND COORDINATION. THE SOUND AND SECURITY SYSTEMS TO PART OF A LATER BID PACKAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| (2)           | THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL OUTLET / JUNCTION BOXES, CONDUITS AND RACEWAY FOR ALL LOW VOLTAGE SYSTEMS. THIS WORK IS DEPICTED ON THE "E" AND "T" SERIES DRAWINGS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| (3)           | FOR COORDINATION PURPOSES, OCCASIONALLY AN ITEM OF WORK MAY BE SHOWN ON THE E SERIES DRAWINGS AND THE T SERIES DRAWINGS. IN ADDITION, THE SAME WORK MAY BE INCLUDED ON MULTIPLE T SERIES DETAIL SHEETS FOR SIMILAR REASONS. REQUEST A CLARIFICATION FOR ANY ITEMS THAT APPEAR UNCLAR AS TO QUANTITY OR CONTRACT RESPONSIBILITY. EXAMPLE: ELECTRICAL DEVICES ARE SHOWN ON T SERIES DETAIL SHEETS FOR COORDINATION AND SPACING PURPOSES. THE ELECTRICAL OUTLETS AND POWER EQUIPMENT IS THE RESPONSIBILITY OF DIVISION 26. UNLESS, SOME TELECOMMUNICATIONS CONDUITS APPEAR ON E SERIES SHEETS FOR SPACE COORDINATION; TELECOMMUNICATIONS PATHWAY AND SPACES ARE COVERED UNDER DIVISION 27. |
| (4)           | REFER TO DIVISION 26 AND DIVISION 27 SPECIFICATIONS FOR ADDITIONAL INFORMATION.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| (3)           | NO LOW VOLTAGE CABLEING SHALL RUN EXPOSED IN AREAS OF THE BUILDING THAT DO NOT HAVE RACEWAYS (IE: GYMNASIUMS, LOCKER ROOMS, ETC.)- ALL CONDUITS RUN TO NEAREST ACCESSIBLE CEILING SPACE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

| LEGEND NOTES |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (1)          | BASE SYMBOLS ARE UTILIZED TO REFERENCE THE FLOORPLAN LOCATION AND PROPER ROUGH-IN REQUIREMENTS. WHERE SUBSCRIPTS ARE USED WITH THESE SYMBOLS, THEY MODIFY THE REQUIREMENTS.                                                                                                                                                                                                                                                                                                                          |
| (2)          | ROUGH-IN REQUIREMENTS CAN BE FOUND ON THE "T-X" SERIES DRAWINGS. PRIOR TO INSTALLATION OF ROUGH-IN, VERIFY ROUGH-IN SIZE REQUIREMENTS WITH DEVICE SUPPLIER.                                                                                                                                                                                                                                                                                                                                          |
| (3)          | INCREASE SIZE OF BOX, AS REQUIRED TO ACCOMMODATE THE QUANTITY AND SIZE OF CONDUITS ENTERING BOX.                                                                                                                                                                                                                                                                                                                                                                                                     |
| (4)          | ALL 1-GANG AND 2-GANG ROUGH-IN BOXES, RECESS/FLUSH MOUNTED, SHALL BE ASSEMBLED FROM 4" SQUARE BOXES AND SEPARATE TRIM RINGS. DEPTH OF COMPOSITE ASSEMBLY SHALL AS INDICATED, MINIMUM.                                                                                                                                                                                                                                                                                                                |
| (5)          | IN APPLICATIONS WHERE THE DRAWINGS AND/OR SPECIFICATIONS REQUIRE THE USE OF SURFACE RACEWAY AND BOXES IN LIEU OF CONCEALED ROUGH-IN, CONTRACTOR SHALL MATCH THE SIZE OF THE BOX LISTED ON THE LEGEND, SHALL MATCH THE QUANTITY OF USABLE RACEWAYS, AND SHALL MATCH THE USABLE RACEWAY CABLE AREA SUBSTANTIALLY, TO QUANTITY AND SIZES OF RACEWAYS LISTED ON THE LEGEND. CONTRACTOR IS ADVISED THAT THIS MAY REQUIRE PROCUREMENT OF MATERIALS ONLY AVAILABLE BY SPECIAL ORDER FROM THE MANUFACTURERS. |
| (6)          | WHERE FIELD CONDITIONS INVOLVE INACCESSIBLE AREAS THE ROUGH-IN SHALL BE MODIFIED TO ALLOW THE PATHWAY TO BE ACCESSIBLE AND REUSABLE.                                                                                                                                                                                                                                                                                                                                                                 |
| (7)          | COLOR CODING OF CABLEING SHALL BE COORDINATED AND APPROVED PRIOR TO PROCUREMENT AND INSTALLATION.                                                                                                                                                                                                                                                                                                                                                                                                    |
| (8)          | SYMBOLS AND SUBSCRIPTS MAY DISTINGUISH BETWEEN VOICE (V) AND DATA (D) INTENDED USES. MATERIALS AND INSTALLATION FOR VOICE AND DATA USES SHALL BE IDENTICAL UNLESS SPECIFICALLY NOTED. (1D, 1V) IS THE SAME AS 2 CABLES.                                                                                                                                                                                                                                                                              |
| (9)          | SYMBOLS PLACED ON EXTERIOR WALLS WITH A "VP" SUBSCRIPT SHALL BE INSTALLED WITH WEATHERPROOF HOUSINGS AND THE ROUGH-IN SEALED FROM MOISTURE INGRESS.                                                                                                                                                                                                                                                                                                                                                  |
| (10)         | WHERE A TELECOMMUNICATIONS OUTLET LOCATION IS ADJACENT TO AN ELECTRICAL OUTLET, THE MOUNTING HEIGHT WILL BE THE SAME FOR EACH. WHERE MULTIPLE TELECOMMUNICATIONS ARE ADJACENT (SUCH AS TELECOMMUNICATIONS AND SOUND DEVICES, FACEPLATES SHALL BE COORDINATED TO THE SAME TYPE AND COLOR AND MOUNTED AT THE SAME HEIGHT.                                                                                                                                                                              |

| PATHWAY AND SPACES DEVICES |                                                                                                                                                                                                                                          |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            | <b>TELECOMMUNICATION WALL LINING (BACKBOARD)</b><br>8" TALL, 4" WIDTH 3/4" AC PLYWOOD; CUT TO FIT SPACE AS SHOWN<br>PAINTED WITH FIRE RETARDANT WHITE PAINT                                                                              |
|                            | <b>LADDER RACK</b><br>SIZE AS INDICATED<br>8" MOUNTING HEIGHT WHEN HORIZONTAL UON                                                                                                                                                        |
|                            | <b>FIRE RATED SLEEVE THROUGH WALL</b><br>4" DIAMETER UNLESS OTHERWISE NOTED; PROVIDE FIRE STOPPING;<br>ROUTE FROM ROOM TO ACCESSIBLE CEILING<br>NOTE: PROVIDE WATERFALL DEVICE WHEN CABLE DROP IS GREATER THAN 6"                        |
|                            | <b>SLEEVE THROUGH WALL</b><br>2" DIAMETER UNLESS OTHERWISE NOTED; PROVIDE FIRE STOPPING;<br>ROUTE FROM ROOM TO ACCESSIBLE CEILING<br>NOTE: NOTE: NOT ALL SLEEVES WILL BE SHOWN; ONLY ADDITIVE INSTANCES REQUIRED TO ACHIEVE DESIGN GOALS |
|                            | <b>FIRE RATED SLEEVE THROUGH FLOOR</b><br>4" DIAMETER UNLESS OTHERWISE NOTED; PROVIDE FIRE STOPPING;<br>ROUTE FROM ROOM TO ACCESSIBLE CEILING<br>NOTE: PROVIDE WATERFALL DEVICE WHEN CABLE DROP IS GREATER THAN 6"                       |
|                            | <b>POKE-THRU - FIRE RATED DEVICE</b><br>SEE ELECTRICAL DRAWINGS FOR POKE-THRU SIZE AND TYPE<br>ADJACENT SYMBOL DENOTES CABLING REQUIREMENTS MODIFIED TO FIT BOX                                                                          |
|                            | <b>FLOOR BOX - FLUSH TO FINISHED FLOOR</b><br>SEE ELECTRICAL DRAWINGS FOR FLOORBOX SIZE AND TYPE<br>ADJACENT SYMBOL DENOTES CABLING REQUIREMENTS MODIFIED TO FIT BOX                                                                     |
|                            | <b>FURNITURE WHIP - WALL</b>                                                                                                                                                                                                             |
|                            | <b>FURNITURE WHIP FROM FIRE RATED POKE THROUGH DEVICE</b><br>X = [WHERE X REPRESENTS A-C] POKE-THRU SIZE AND TYPE<br>1 1/4" WHIP FITTING MINIMUM                                                                                         |
|                            | <b>TELEPOWER POLE</b><br>ADJACENT SYMBOL DENOTES CABLING REQUIREMENTS MODIFIED TO FIT BOX                                                                                                                                                |
|                            | <b>JUNCTION/PULL BOX - WALL MOUNTED</b><br>SIZE AS NOTED OR CALCULATED BY QUANTITY AND SIZE OF CONDUITS<br>NOTE: ALL BOXES SHALL BE MOUNTED SO AS TO ALLOW RE-ENTRY IN A SAFE MANNER                                                     |
|                            | <b>JUNCTION/PULL BOX - FLOOR MOUNTED</b><br>SIZE AS NOTED OR CALCULATED BY QUANTITY AND SIZE OF CONDUITS<br>NOTE: ALL BOXES SHALL BE MOUNTED SO AS TO ALLOW RE-ENTRY IN A SAFE MANNER                                                    |
|                            | <b>JUNCTION/PULL BOX - CEILING MOUNTED</b><br>SIZE AS NOTED OR CALCULATED BY QUANTITY AND SIZE OF CONDUITS<br>NOTE: ALL BOXES SHALL BE MOUNTED SO AS TO ALLOW RE-ENTRY IN A SAFE MANNER                                                  |

DRAWING

TELECOMMUNICATIONS  
LEGEND

PROJECT  
JACKSON ES -  
ADDITIONS & RENOVATIONS

C GIBALTAR  
DESIGN

SHEET

T001

| AUDIO-VISUAL SYSTEMS |                                                                                                                                                                                                                   |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      | <b>VOICE AND DATA OUTLET WITH LOCAL INPUT</b><br>X = QUANTITY OF (4) PAIR VOICE/DATA CABLES (MIN. 1 VOICE AND 1 DATA CABLE WITHOUT SUBSCRIPT)<br>LI = LOCAL INPUT CABLEING TO A VIDEO PROJECTOR, TELEVISION, ETC. |
|                      | <b>DATA OUTLET WITH LOCAL INPUT</b><br>X = QUANTITY OF (4) PAIR DATA CABLES (MIN. 2 DATA CABLE WITHOUT SUBSCRIPT)<br>LI = LOCAL INPUT CABLEING TO A VIDEO PROJECTOR, TELEVISION, ETC.                             |
|                      | <b>VIDEO PROJECTOR CEILING MOUNTED - NETWORK</b><br>QUANTITY OF TWO - (4) PAIR DATA CABLES - THIS OUTLET WILL ALSO ACCEPT CABLEING FROM LOCAL INPUT LOCATIONS<br>Y = MODEL                                        |
|                      | <b>VIDEO PROJECTOR WALL MOUNTED</b><br>QUANTITY OF TWO - (4) PAIR DATA CABLES - THIS OUTLET WILL ALSO ACCEPT LOCAL INPUT CABLES<br>Y = MODEL                                                                      |
|                      | <b>FLAT PANEL DISPLAY CEILING MOUNTED - NETWORK</b><br>QUANTITY OF TWO - (4) PAIR DATA CABLES<br>THIS OUTLET WILL ALSO ACCEPT LOCAL INPUT CABLES<br>Y = MODEL                                                     |
|                      | <b>FLAT PANEL (TV) DISPLAY WALL MOUNTED - NETWORK</b><br>QUANTITY OF TWO - (4) PAIR DATA CABLES - THIS OUTLET WILL ALSO ACCEPT LOCAL INPUT CABLES<br>Y = MODEL / HEIGHT = 60" (UNLESS OTHERWISE NOTES)            |
|                      | <b>AUDIO VIDEO (A/V) OUTLET</b><br>X = SYSTEM<br>Y = MODEL<br>SEE SYSTEM DETAILS FOR CONNECTIVITY REQUIREMENTS                                                                                                    |
|                      | <b>MICROPHONE INPUT - WALL MOUNT</b><br>X = SYSTEM<br>SEE SYSTEM DETAILS FOR CONNECTIVITY REQUIREMENTS                                                                                                            |
|                      | <b>MICROPHONE INPUT - CEILING MOUNT</b><br>X = SYSTEM<br>SEE SYSTEM DETAILS FOR CONNECTIVITY REQUIREMENTS                                                                                                         |
|                      | <b>SYSTEM SPEAKER - RECESSED CEILING MOUNTED</b><br>X = SYSTEM<br>Y = MODEL                                                                                                                                       |
|                      | <b>SYSTEM SPEAKER - WALL MOUNTED</b><br>X = SYSTEM<br>Y = MODEL                                                                                                                                                   |
|                      | <b>SYSTEM SPEAKER - PENDANT MOUNTED</b><br>X = SYSTEM<br>Y = MODEL                                                                                                                                                |
|                      | <b>SYSTEM SPEAKER - CEILING MOUNTED</b><br>X = SYSTEM<br>Y = MODEL                                                                                                                                                |
|                      | <b>A/V CONTROL PANEL</b><br>X = SYSTEM<br>Y = TYPE<br>SEE SYSTEM DETAILS FOR CONNECTIVITY REQUIREMENTS                                                                                                            |
|                      | <b>INTERACTIVE WHITE BOARD</b><br>A/V SYSTEM CONTROL PANEL                                                                                                                                                        |

| SECURITY/LIFE SAFETY |                                                                                                                                                                             |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      | <b>VIDEO SURVEILLANCE CAMERA OUTLET WALL MOUNTED</b><br>QUANTITY OF ONE - (4) PAIR DATA CABLE (UNLESS OTHERWISE NOTED)<br>Y = CAMERA TYPE                                   |
|                      | <b>VIDEO SURVEILLANCE CAMERA OUTLET CEILING MOUNTED</b><br>QUANTITY OF ONE - (4) PAIR DATA CABLE (UNLESS OTHERWISE NOTED)<br>Y = CAMERA TYPE                                |
|                      | <b>VIDEO SURVEILLANCE CAMERA OUTLET EXTERIOR WALL</b><br>QUANTITY OF ONE - (4) PAIR DATA CABLE (UNLESS OTHERWISE NOTED)<br>Y = CAMERA TYPE                                  |
|                      | <b>SECURE DOOR</b><br>DENOTES A DOOR WITH CONNECTIVITY FOR STATUS SENSOR(S) AND LOCKING AND UN-LOCKING CAPABILITIES<br>X - WHERE UTILIZED WILL BE DEFINED ON SYSTEM DIAGRAM |
|                      | <b>DOOR STATUS SENSOR</b><br>DOOR STATUS SENSOR ALLOWS DOOR MONITORING WITH OR WITHOUT LOCKING PROVISIONS<br>CABLE AS REQUIRED BY SYSTEM                                    |
|                      | <b>DOOR RELEASE</b><br>DOOR RELEASE SWITCH ALLOWS MANUAL ACTUATION OF AN ELEC. DOOR LOCK<br>CABLE AS REQUIRED BY SYSTEM                                                     |
|                      | <b>KEYPAD</b><br>KEYPAD UTILIZED TO ARM/DISARM SECURITY SYSTEM/SECURE DOOR<br>CABLE AS REQUIRED BY SYSTEM                                                                   |
|                      | <b>PROXIMITY CARD READER</b><br>QUANTITY ONE - (4) PAIR DATA CABLE<br>Y = MODEL<br>MAY BE A COMBINATION KEYPAD AND READER; SEE SPECIFICATION.                               |
|                      | <b>PANIC (DURESS) SWITCH</b><br>SWITCH UTILIZED TO MANUALLY ACTUATE ALARM AND/OR ACCESS CONTROL SYSTEM.                                                                     |
|                      | <b>ELECTRONIC HOLD OPEN</b><br>CABLE AS REQUIRED BY SYSTEM                                                                                                                  |
|                      | <b>ELECTRIC DOOR LOCK/STRIKE</b><br>REQUIRES 120V POWER                                                                                                                     |
|                      | <b>SECURITY MONITOR</b><br>ONE DATA CABLE, PLUS OTHER SPECIAL A/V CABLES AS REQUIRED BY SYSTEM<br>X = TYPE                                                                  |

| DISTRIBUTED SYSTEMS |                                                                                                                                           |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
|                     | <b>SPEAKER - SUSPENDED CEILING MOUNTED</b><br>CABLE AS REQUIRED BY SYSTEM<br>V = INTEGRAL VOLUME CONTROL<br>Y = MODEL                     |
|                     | <b>SPEAKER - SOLID CEILING MOUNTED</b><br>CABLE AS REQUIRED BY SYSTEM<br>V = INTEGRAL VOLUME CONTROL<br>Y = MODEL                         |
|                     | <b>SPEAKER, WALL TYPE</b><br>CABLE AS REQUIRED BY SYSTEM<br>Y = MODEL                                                                     |
|                     | <b>SPEAKER, PENDANT</b><br>CABLE AS REQUIRED BY SYSTEM<br>Y = MODEL                                                                       |
|                     | <b>SPEAKER, VOLUME CONTROL</b><br>CABLE AS REQUIRED BY SYSTEM<br>P = PRIORITY OVERRIDE OPTION                                             |
|                     | <b>SPEAKER, HORN TYPE</b><br>CABLE AS REQUIRED BY SYSTEM<br>Y = MODEL                                                                     |
|                     | <b>VIDEO INTERCOM CALL STATION</b><br>QUANTITY ONE - (4) PAIR DATA CABLE<br>ACCESS CONTROL SYSTEMS CABLE TO DOOR CONTROLLER               |
|                     | <b>VIDEO INTERCOM MASTER STATION</b><br>QUANTITY ONE - (4) PAIR DATA CABLE<br>ACCESS CONTROL SYSTEMS CABLE TO DOOR CONTROLLER             |
|                     | <b>CLOCK - BATTERY TYPE</b><br>WALL CLOCK; 12" DIAMETER, UNLESS OTHERWISE NOTED<br>WV = PROVIDE WITH ACCESSORY WIRE GUARD                 |
|                     | <b>CLOCK - BATTERY TYPE</b><br>WALL CLOCK; 12" DIAMETER, UNLESS OTHERWISE NOTED<br>WV = PROVIDE WITH ACCESSORY WIRE GUARD<br>DOUBLE SIDED |
|                     | <b>LED CLOCK - CEILING MOUNTED</b><br>QUANTITY OF ONE - (4) PAIR DATA CABLE PER CLOCK<br>Y = MODEL                                        |
|                     | <b>LED CLOCK</b><br>QUANTITY OF ONE - (4) PAIR DATA CABLE PER CLOCK<br>Y = MODEL<br>DOUBLE SIDED                                          |
|                     | <b>LED CLOCK - WALL MOUNTED</b><br>QUANTITY OF ONE - (4) PAIR DATA CABLE PER CLOCK<br>Y = MODEL                                           |

| TELECOMMUNICATIONS |                                                                                                                                                                                                                       |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                    | <b>VOICE OUTLET; STANDARD</b><br>X = QUANTITY OF - (4) PAIR VOICE CABLES CABLE (WITHOUT SUBSCRIPT)<br>B = BLANK COVER, NO CONNECTORS OR CABLE                                                                         |
|                    | <b>VOICE OUTLET; WALL MOUNTED TELEPHONE</b><br>QUANTITY OF ONE - (4) PAIR VOICE CABLES CABLE (WITHOUT SUBSCRIPT)                                                                                                      |
|                    | <b>VOICE AND DATA OUTLET; STANDARD</b><br>X = QUANTITY OF (4) PAIR VOICE/DATA CABLES (MIN. 1 VOICE AND 1 DATA CABLE WITHOUT SUBSCRIPT)<br>B = BLANK COVER, NO CONNECTORS OR CABLE                                     |
|                    | <b>VOICE AND DATA OUTLET IN OFFICE FURNITURE</b><br>X = QUANTITY OF (4) PAIR VOICE/DATA CABLES (MIN. 1 VOICE AND 1 DATA CABLE WITHOUT SUBSCRIPT)<br>F = (B) BLANK COVER, (CH) COUNTER HEIGHT<br>F = FURNITURE MOUNTED |
|                    | <b>DATA OUTLET; STANDARD</b><br>X = QUANTITY OF (4) PAIR DATA CABLES (MIN. 1 DATA CABLE WITHOUT SUBSCRIPT)<br>Y = (B) BLANK COVER, (CH) COUNTER HEIGHT                                                                |
|                    | <b>WIRELESS LAN ACCESS POINT OUTLET WALL MOUNTED</b><br>QUANTITY OF TWO - (4) PAIR DATA CAT6A CABLES                                                                                                                  |
|                    | <b>WIRELESS LAN ACCESS POINT OUTLET CEILING MOUNTED</b><br>QUANTITY OF TWO - (4) PAIR DATA CAT6A CABLES                                                                                                               |
|                    | <b>POINT OF SALE DATA OUTLET</b><br>X = QUANTITY OF (4) PAIR VOICE/DATA CABLES (MIN. 1 DATA CABLE WITHOUT SUBSCRIPT)<br>SEE SYSTEM DIAGRAM FOR ADDITIONAL CABLING REQUIREMENTS                                        |
|                    | <b>ABOVE CEILING OUTLET</b><br>X = QUANTITY OF (4) PAIR DATA CABLES (MIN. 1 DATA CABLE WITHOUT SUBSCRIPT)                                                                                                             |
|                    | <b>BUILDING AUTOMATION SYSTEMS OUTLET</b><br>QUANTITY OF TWO - (4) PAIR DATA CABLES<br>COORDINATE OUTLET LOCATION WITH BUILDING CONTROLS CONTRACTOR                                                                   |
|                    | <b>FIRE ALARM CONTROL PANEL</b><br>QUANTITY OF TWO - (4) PAIR DATA CABLES<br>COORDINATE OUTLET LOCATION WITH FIRE ALARM CONTRACTOR                                                                                    |
|                    | <b>ELEVATOR CONTROL OUTLET</b><br>QUANTITY OF TWO - (4) PAIR DATA CABLES<br>COORDINATE OUTLET LOCATION WITH ELEVATOR CONTRACTOR                                                                                       |
|                    | <b>EMERGENCY TELEPHONE OUTLET</b><br>QUANTITY OF ONE - (4) PAIR VOICE CABLES (UNLESS OTHERWISE NOTED)<br>COORDINATE OUTLET LOCATION WITH SECURITY SYSTEM CONTRACTOR                                                   |
|                    | <b>SECURITY ALARM PANEL OUTLET</b><br>QUANTITY OF TWO - (4) PAIR DATA CABLES<br>COORDINATE OUTLET LOCATION WITH SECURITY SYSTEMS CONTRACTOR                                                                           |
|                    | <b>TIME CLOCK</b><br>QUANTITY OF ONE - (4) PAIR DATA CABLE                                                                                                                                                            |

## GENERAL ROUGH-IN NOTES:

- CONTRACTOR SHALL USE THESE DRAWINGS IN CONJUNCTION WITH THE SPECIFICATIONS TO DETERMINE THE FULL SCOPE, INTENT AND REQUIREMENTS OF THE PROJECT. SPECIFICATIONS AND DRAWINGS ARE INTENDED TO BE COMPLEMENTARY, NOT MUTUALLY EXCLUSIVE. WORK SHOWN ON THE DRAWINGS BUT NOT LISTED IN THE SPECIFICATIONS, AND WORK DESCRIBED IN THE SPECIFICATIONS BUT NOT SHOWN ON THE DRAWINGS SHALL BE INTERPRETED AS THOUGH WORK WERE FULLY DESCRIBED IN BOTH PLACES. THE HIGHER QUANTITY, HIGHER QUALITY, MORE LABOR INTENSIVE AND OVERALL MORE STRINGENT AND MORE COSTLY REQUIREMENT SHALL APPLY.
- COLORS OF CABLEING USED FOR ALL COMMUNICATIONS TECHNOLOGY WORK SHALL BE REVIEWED AND APPROVED PRIOR TO PROCUREMENT AND INSTALLATION.
- ALL LADDER RACK AND OTHER COMMUNICATION TECHNOLOGY CABLING PATHWAYS DEPICTED ON THE ENLARGED FLOOR PLANS AND OTHERWISE NECESSARY FOR PROFESSIONAL WIRE MANAGEMENT WITHIN THE MAIN EQUIPMENT ROOM (ER) AND ALL TELECOMMUNICATION ROOMS (TR) SHALL BE PROVIDED BY THE COMMUNICATIONS TECHNOLOGY CONTRACTOR. SEE DIVISION 27 SPECIFICATIONS AND DRAWINGS FOR REQUIREMENTS.
- THE DIVISION 27 CONTRACTOR SHALL THOROUGHLY REVIEW THE SPECIFIED ROUGH-IN TO ENSURE THAT SUPPLIED ROUGH-IN WILL SUPPORT THE CABLING AND DEVICES BEING SUPPLIED. DIVISION 27 CONTRACTOR SHALL THOROUGHLY COORDINATE WITH THE DIVISION 26 ROUGH-IN PROVIDER PRIOR TO ROUGH-IN MATERIAL ACQUISITION AND INSTALLATION.

## GENERAL PATHWAYS NOTES:

- ROUGH-IN PATHWAYS SHALL BE CLOSELY REVIEWED AND COORDINATED PRIOR TO INSTALLATION. IT IS THE RESPONSIBILITY OF THE ROUGH-IN PROVIDER TO THOROUGHLY REVIEW AND UNDERSTAND THE REQUIREMENTS OF THE SYSTEMS THAT WILL USE THE PATHWAYS. THIS INCLUDES, BUT IS NOT LIMITED TO, PROVIDING THE CORRECT QUANTITY AND SIZES OF CONVEYANCES. THE COST FOR REMOVING AN INSUFFICIENT PATHWAY SYSTEM AND INSTALLING AN APPROPRIATELY SIZED AND TYPED PATHWAY SYSTEM IS THE RESPONSIBILITY OF THE CONTRACTOR.  
PATHWAYS SHALL BE COMPLIANT WITH THE CONTRACT DOCUMENTS.
- WHERE CONDUIT IS SHOWN AND/OR SPECIFIED, PROVIDE PULL BOXES SHOWN ON THE DRAWINGS PLUS ADDITIONAL PULL BOXES AS FOLLOWS:  
A) EVERY 180 DEGREES OF CONDUIT BEND;  
B) EVERY 100 FEET OF CONDUIT PATH.
- INSTALLED PULL BOXES AND JUNCTION BOXES BE IN ACCESSIBLE LOCATIONS.
- ROUGH-IN REQUIREMENTS INDICATED ON PLANS, ELEVATIONS AND DETAILS TAKE PRECEDENCE OVER VALUES GIVEN ON THE LEGEND, BUT ONLY TO THE EXTENT THAT THOSE SPECIFIC ITEMS ARE MODIFIED.
- PROVIDE PATHWAYS FOR COMMUNICATIONS AND SECURITY SYSTEMS CABLING. REFER TO SECTIONS "PATHWAYS FOR COMMUNICATIONS" AND "PATHWAYS FOR SAFETY AND SECURITY".
- PROVIDE COVER PLATES FOR DEVICE, JUNCTION AND PULL BOXES. COORDINATE MATERIAL AND FINISH OF PLANT PLATES TO MATCH SURROUNDING PLATES.
- WHERE CONDUITS ARE SPECIFIED "TAC" (TO ABOVE ACCESSIBLE CEILING) THIS SHALL MEAN THAT CONDUITS SHALL BE STUBBED INTO AN ACCESSIBLE CEILING CAVITY WITHIN THE SAME ROOM AS THE DEVICE THE CONDUIT SERVES. SEE ALSO "DEFINITIONS".
- WHERE DEVICE CONDUITS ARE SPECIFIED "TAC" (TO ABOVE ACCESSIBLE HALLWAY/CORRIDOR CEILING) THIS SHALL MEAN THAT CONDUITS SHALL BE RUN CONTINUOUS AND STUBBED OUT INTO AN ACCESSIBLE CEILING CAVITY WITHIN THE NEAREST CORRIDOR FEATURING AN ACCESSIBLE CEILING CAVITY. SEE ALSO "DEFINITIONS".
- CONDUIT INSTALLER SHALL INSTALL PULL STRINGS IN CONDUITS IMMEDIATELY AFTER INSTALLATION. THIS INCLUDES CONDUITS TARGETED FOR IMMEDIATE AND FUTURE USE.
- WHERE A MOUNTING HEIGHT MEASUREMENT IS APPLIED TO A ROUGH-IN, THE MEASUREMENT SHALL BE REFERENCED TO THE CENTER OF THE ROUGH-IN DEVICE, EXCEPT WHERE OTHERWISE DETAILED.
- ROUGH-IN BOXES SHALL BE INSTALLED FLUSH IN WALLS AND CEILINGS.
- PATHWAYS SHALL BE INSTALLED CONCEALED MANNER. EXPOSED CONDUIT SHALL NOT BE PERMITTED IN FINISHED AREAS.
- SURFACE MOUNT BACK BOXES AND MATCHING RACEWAY SHALL BE USED FOR COMMUNICATION TECHNOLOGY DEVICES THAT ARE NOT INSTALLED WITHIN A WALL OR CEILING.
- PROVIDE CODE-COMPLIANT FIRE-STOPPING FOR PATHWAYS THROUGH FIRE-RATED WALLS, FLOORS AND CEILINGS.
- ALL CONDUIT PROVIDED FOR COMMUNICATION TECHNOLOGY USE SHALL BE PROVIDED WITH NYLON END-BUSHINGS. BUSHINGS SHALL BE INSTALLED AT EACH END OF THE CONDUIT, AT EACH PULL/JUNCTION/DEVICE BOX, ON CONDUIT STUBS, AT EACH LOCATION WHERE PULLING CABLE THROUGH THE CONDUIT MAY CAUSE THE CABLE TO RUB AGAINST THE END OF A CONDUIT OR AN END FITTING.
- DEVICES DESIGNATED WITH THE "CH" SUBSCRIPT (COUNTER HEIGHT) SHALL BE CLOSELY COORDINATED IN THE FIELD WITH THE ARCHITECT, CASEWORK AND FURNITURE VENDORS PRIOR TO ROUGH-IN.
- DEVICES TO BE INSTALLED AT CASEWORK LOCATIONS SHALL BE CLOSELY COORDINATED WITH THE CASEWORK TO ENSURE FUNCTIONAL CONNECTIVITY. COORDINATE WITH THE ARCHITECT AND THE EQUIPMENT AND CASEWORK DRAWINGS.
- ROUGH-IN SHALL BE CLOSELY COORDINATED TO COMPLEMENT THE INTENDED FURNITURE PLAN AND TO ENSURE THE SAFE AND EFFICIENT CONNECTIVITY OF EQUIPMENT.
- MANY COMMUNICATIONS DEVICES ARE INTENDED TO HAVE ADJACENT POWER OR INTEGRAL RECEPTACLES (MULTI-SERVICE) TO SERVE THE SAME EQUIPMENT. CLOSE PROXIMITY OF SEPARTE DEVICES IS CRITICAL FOR USABILITY AND AESTHETICS. COORDINATE THE LOCATION OF SEPARATE DEVICES SO THAT THEY ARE LOCATED ADJACENT AND AT THE SAME ELEVATION.
- TELECOMMUNICATION DEVICE MOUNTING HEIGHT SHALL BE CONSISTENT WITH THE ELECTRICAL OUTLET MOUNTING HEIGHTS FOR THE FACILITY (NEW OR EXISTING) UNLESS OTHERWISE INDICATED ON DRAWINGS. CONTRACTOR SHALL SEEK THE DIRECTION OF THE DESIGNER/ARCHITECT/ENGINEER/CONSULTANT SHOULD DISCREPANCIES BE FOUND WITHIN THE DRAWINGS, SPECIFICATIONS AND ACTUAL FIELD CONDITIONS.
- CONDUITS STUBBED INTO THE CEILING CAVITY SHALL BE MARKED WITH AN INDELEBIL MARKER INDICATING THE CONDUIT'S INTENDED USE. MARK CONDUIT SO AS TO BE READABLE FROM BELOW LABEL WITHIN 6 INCHES OF THE CONDUIT BUSHING. BELOW ARE EXAMPLES OF LABELS TO BE USED: "CAMERA," "COM," "DOOR," "SPKR," "MIC," "CLOCK," "VOL," "PANEL," "WAP," "DATA," "PHONE," "COM," "RF," "VP," "INPUT," ETC.
- WHERE SPECIFICATIONS AND/OR DRAWINGS INDICATE THE USE OF SURFACE RACEWAY AND BOXES IN LIEU OF RECESSED ROUGH-IN, THE BOX SIZE AND USABLE RACEWAY CABLE AREA SHALL SUBSTANTIALLY MATCH THAT OF THE DEFAULT STANDARD ROUGH-IN. IN SOME CIRCUMSTANCES THIS MAY REQUIRE THE CONTRACTOR TO PROCURE MATERIALS ONLY AVAILABLE BY SPECIAL ORDER FROM THE MANUFACTURERS.
- LADDER RACK AND OTHER COMMUNICATION TECHNOLOGY CABLING PATHWAYS DEPICTED ON THE ENLARGED FLOOR PLANS SHALL BE PROVIDED AS INDICATED. ADDITIONAL PRODUCTS NECESSARY FOR PROFESSIONAL WIRE MANAGEMENT WITHIN THE MAIN EQUIPMENT ROOM (ER) AND ALL TELECOMMUNICATION ROOMS (TR) SHALL BE ALSO BE PROVIDED AS NECESSARY.
- ELEVATOR TELEPHONE CONNECTIONS, SHALL BE CLOSELY COORDINATED WITH THE ELEVATOR PROVIDER, PROVIDE CONDUIT FROM THE ELEVATOR CONTROL PANEL TO THE CORRIDOR CEILING SPACE, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
- COORDINATE THE TELEPHONE CONNECTION REQUIREMENTS FOR THE FIRE ALARM CONTROL PANEL (FACP) WITH THE FIRE ALARM INSTALLER. PROVIDE CONDUIT FROM THE FACP TO ACCESSIBLE CORRIDOR CEILING SPACE, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
- COORDINATE DATA CABLING AND TERMINATION REQUIREMENTS FOR HVAC BUILDING AUTOMATION SYSTEM (BAS), WITH THE BAS PROVIDER.
- PROVIDE A MINIMUM OF TWO (2) 2-INCH DIAMETER THROUGH-THE-WALL CONDUIT SLEEVES FOR USE AS COMMUNICATION AND SECURITY CABLE PATHWAYS INTO EACH SPACE CONTAINING COMMUNICATION AND SECURITY DEVICES. ROUTE CONDUITS FROM ABOVE ACCESSIBLE CEILING TO THE NEAREST HALLWAY/CORRIDOR FEATURING AN ACCESSIBLE CEILING CAVITY.

## GENERAL NOTES:

- NOTHING SET FORTH IN THESE DRAWINGS SHALL RELEASE ANY CONTRACTOR FROM HIS RESPONSIBILITY TO PROVIDE APPROPRIATE QUANTITIES, FIELD MEASUREMENTS, DIMENSIONAL STABILITY, INSTALLATION, ANCHORAGE, AND COORDINATION WITH OTHER TRADES, OR RELEASE HIM FROM HIS RESPONSIBILITY TO IDENTIFY AND RESOLVE DEVIATIONS FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, OR FREE HIM OF HIS RESPONSIBILITY TO ALERT DESIGNER TO ERRORS OR OMISSIONS.
- CONTRACTOR SHALL UTILIZE THESE DRAWINGS IN CONJUNCTION WITH THE SPECIFICATIONS TO DETERMINE THE FULL SCOPE, INTENT AND REQUIREMENTS OF THE PROJECT. SPECIFICATIONS AND DRAWINGS ARE INTENDED TO BE COMPLEMENTARY, NOT MUTUALLY EXCLUSIVE. WORK SHOWN ON THE DRAWINGS BUT NOT LISTED IN THE SPECIFICATIONS, AND WORK DESCRIBED IN THE SPECIFICATIONS BUT NOT SHOWN ON THE DRAWINGS SHALL BE INTERPRETED AS THOUGH WORK WERE FULLY DESCRIBED IN BOTH PLACES. THE HIGHER QUANTITY, HIGHER QUALITY, MORE LABOR INTENSIVE AND OVERALL MORE STRINGENT AND MORE COSTLY REQUIREMENT SHALL APPLY UNLESS OTHERWISE CLARIFIED IN WRITING PRIOR TO BID.
- EACH CONTRACTOR SHALL VERIFY IN THE FIELD ALL EXISTING APPLICABLE CONDITIONS AND DIMENSIONS SHOWN ON THE DRAWINGS AND AS PERTINENT TO THE INTENT OF THESE DRAWINGS. ANY DISCREPANCY DISCOVERED SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGNER PRIOR TO THE COMMENCEMENT OF ANY WORK AFFECTED BY, OR RELATED TO, SUCH DISCREPANCY. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH, OR CAUSED BY HIS FAILURE TO COMPLY WITH THIS REQUIREMENT.
- EACH CONTRACTOR SHALL REVIEW ALL PORTIONS OF HIS WORK, BEFORE STARTING THE WORK, TO VERIFY THAT THE WORK WILL NOT PROHIBIT COMPLETION OF THE PROJECT AS INTENDED IN THESE CONSTRUCTION DOCUMENTS. ALL QUESTIONS SHALL BE REFERRED TO THE DESIGNER FOR RESOLUTION.
- EACH CONTRACTOR SHALL BE RESPONSIBLE FOR JOB CLEANLINESS. PROJECT AREAS SHALL BE THOROUGHLY CLEANED AND TRASH DISPOSED OF AT THE END OF EACH WORK DAY. OWNER'S FACILITIES SHALL NOT BE USED FOR WASTE DISPOSAL.
- PROVIDE DUST PROTECTION WHEN WORKING IN EXISTING FACILITIES. SEAL OFF ALL WORK AREAS FROM REMAINDER OF THE EXISTING FACILITY TO RETAIN ALL CONSTRUCTION DIRT AND DUST. SEAL EXISTING DOORS WITH TAPE AND PROVIDE DUST-PROOF BARRIERS AS REQUIRED.
- ALL WORK SHALL BE SEQUENCED TO PROVIDE FOR THE OWNER'S CONTINUED USE OF THE EXISTING FACILITY WHEN REQUIRED. OWNER'S ACCESS, EGRESS AND SAFETY SHALL BE MAINTAINED BY EACH CONTRACTOR. THE SEQUENCE OF WORK SHALL BE AS DETERMINED BY THE CONSTRUCTION MANAGER. REFER TO THE PROJECT MANUAL FOR FURTHER REQUIREMENTS.
- EACH CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ALL SURFACES AND FINISHES IN THE INTERIOR OR EXTERIOR OF THE FACILITY. DAMAGED SURFACES OR FINISHES RESULTING FROM THE PERFORMANCE OF THE WORK OR REQUIREMENTS SHALL BE REPAIRED AT NO COST TO THE OWNER BY THE RESPONSIBLE CONTRACTOR. FINISHES AND SURFACES SHALL BE MADE TO MATCH THE EXISTING FINISHES OR SURFACES TO THE SATISFACTION OF THE OWNER AND ARCHITECT/CONSTRUCTION MANAGER.
- "TECHNOLOGY" CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TELEPHONE, DATA, CENTRAL SOUND, SECURITY CCTV AND ALARM SYSTEM SERVICES IN ALL EXISTING AREAS FOR DURATION OF PROJECT FOR MULTI-PHASED PROJECTS. CONTRACTOR SHALL COLLABORATE WITH OWNER'S TECHNOLOGY PERSONNEL, AS NECESSARY AND PROVIDE TEMPORARY WIRING, CROSS-CONNECTS, TERMINATION DEVICES, AND LABOR TO MAINTAIN OPERATION ACCEPTABLE TO THE OWNER. CONTRACTOR SHALL REFER TO THE FRONT END DOCUMENTS OF THE SPECIFICATIONS FOR ADDITIONAL INFORMATION RELATED TO PHASING. ALL PHASING QUESTIONS SHALL BE ADDRESSED PRIOR TO THE CONTRACTOR'S BID SUBMISSION.
- EACH CONTRACTOR SHALL FIELD VERIFY ALL EXISTING APPLICABLE CONDITIONS AND DIMENSIONS SHOWN ON THE DRAWINGS, AS PERTAINS TO THE INTENT OF THESE DRAWINGS. CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ARCHITECT AND DESIGNER ANY DISCREPANCIES DISCOVERED PRIOR TO THE COMMENCEMENT OF ANY WORK AFFECTED BY OR RELATED TO SUCH DISCREPANCY. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH OR CAUSED BY THAT CONTRACTOR'S FAILURE TO COMPLY WITH THIS REQUIREMENT.

## GENERAL CABLING NOTES:

- ALL PROVIDED CABLE SHALL BE RATED FOR THE ENVIRONMENT INSTALLED.
- ALL INSTALLED CABLEING SHALL BE CONTINUOUS AND WITHOUT SPLICES, EXCEPT WHERE OTHERWISE NOTED.
- "ABOVE ACCESSIBLE CEILING" SHALL BE INTERPRETED TO GENERALLY MEAN THE ACCESSIBLE CAVITY ABOVE SUSPENDED CEILING AND BENEATH THE DECK/FLOOR ABOVE. CONDUITS STUBBED ABOVE ACCESSIBLE CEILING SHALL TERMINATE IN A LOCATION IN WHICH A NORMAL HEIGHT PERSON CAN VIEW AND ACCESS WITHOUT STRAIN WHILE STANDING UPRIGHT ON A LADDER OR OTHER VERTICAL LIFE DEVICE.
- COLOR CODING OF CABLEING SHALL BE COORDINATED AND APPROVED PRIOR TO PROCUREMENT AND INSTALLATION.
- ALL CABLE IN EXPOSED CEILINGS SHALL BE IN CONDUIT.

## SLEEVE AND FIRE-STOPPING NOTES:

- ALL PENETRATIONS THROUGH BUILDING STRUCTURE (WALL AND/OR FLOORS) FOR COMMUNICATIONS CABLING SHALL BE SLEEVED.
- ALL SLEEVES THROUGH WALLS OR FLOORS HOLDING A FIRE RATING SHALL BE INSTALLED UTILIZING ONE OF THE APPROVED METHODS FOR A UL LISTED ASSEMBLY.
- APPROVED MANUFACTURERS FOR UL LISTED SLEEVES SHALL BE SPECIFIED TECHNOLOGY SYSTEMS, UNIQUE FIRESTOP PRODUCTS, AND WIREMOLD.
- ALL SLEEVES THROUGH FLOORS SHALL BE FIRESTOPPED TO A RATING EQUAL TO OR HIGHER THAN THE FLOOR RATING.
- ALL UN-USED SLEEVES THROUGH WALLS OR FLOORS HOLDING A FIRE RATING SHALL BE FIRESTOPPED TO A RATING EQUAL TO OR HIGHER THAN THE WALL OR FLOOR RATING.
- ALL SLEEVES THROUGH WALLS HOLDING A FIRE RATING SHALL BE FIRESTOPPED TO A RATING EQUAL TO OR HIGHER THAN THE WALL RATING.



**GIBRALTAR**  
DESIGN

ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

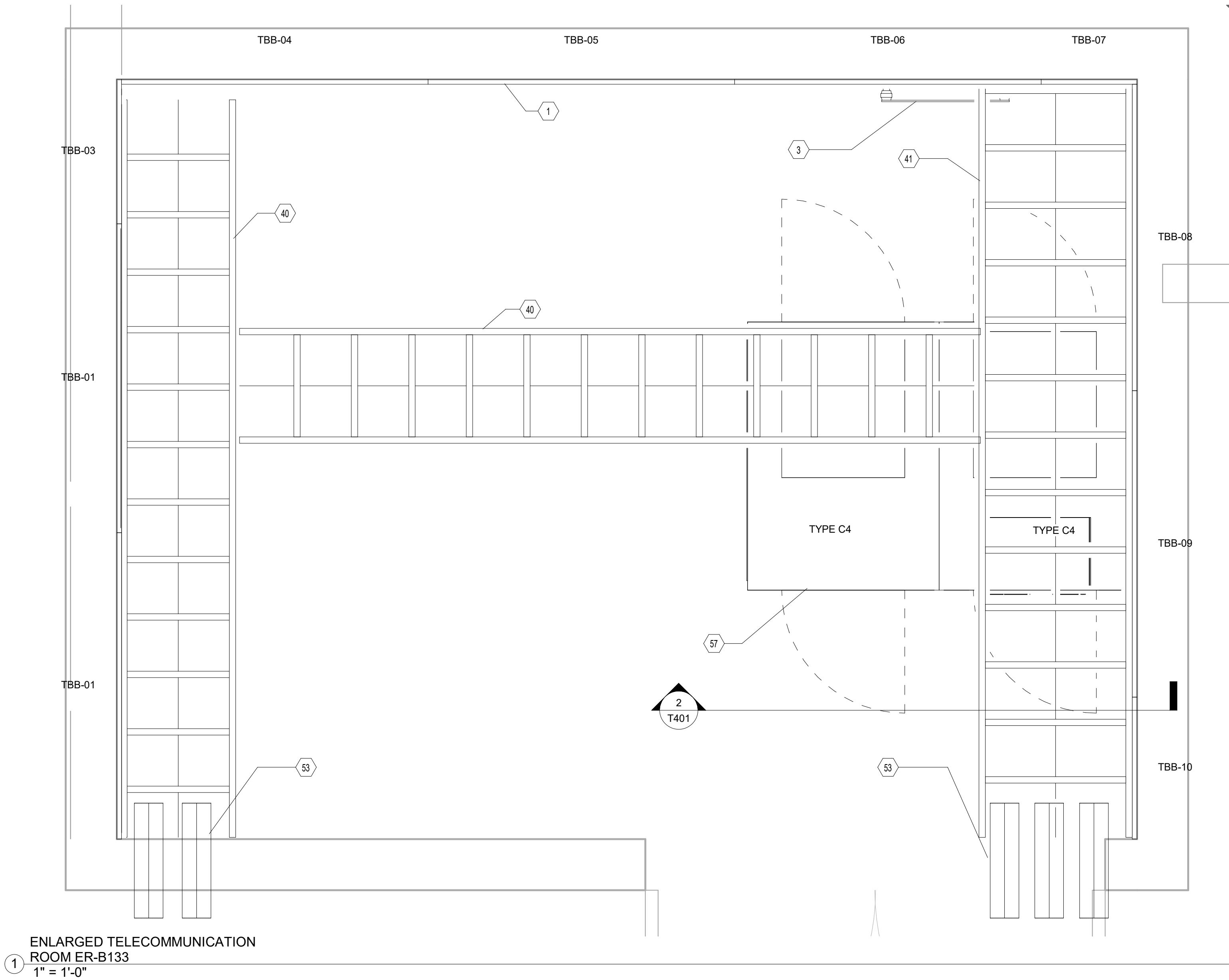
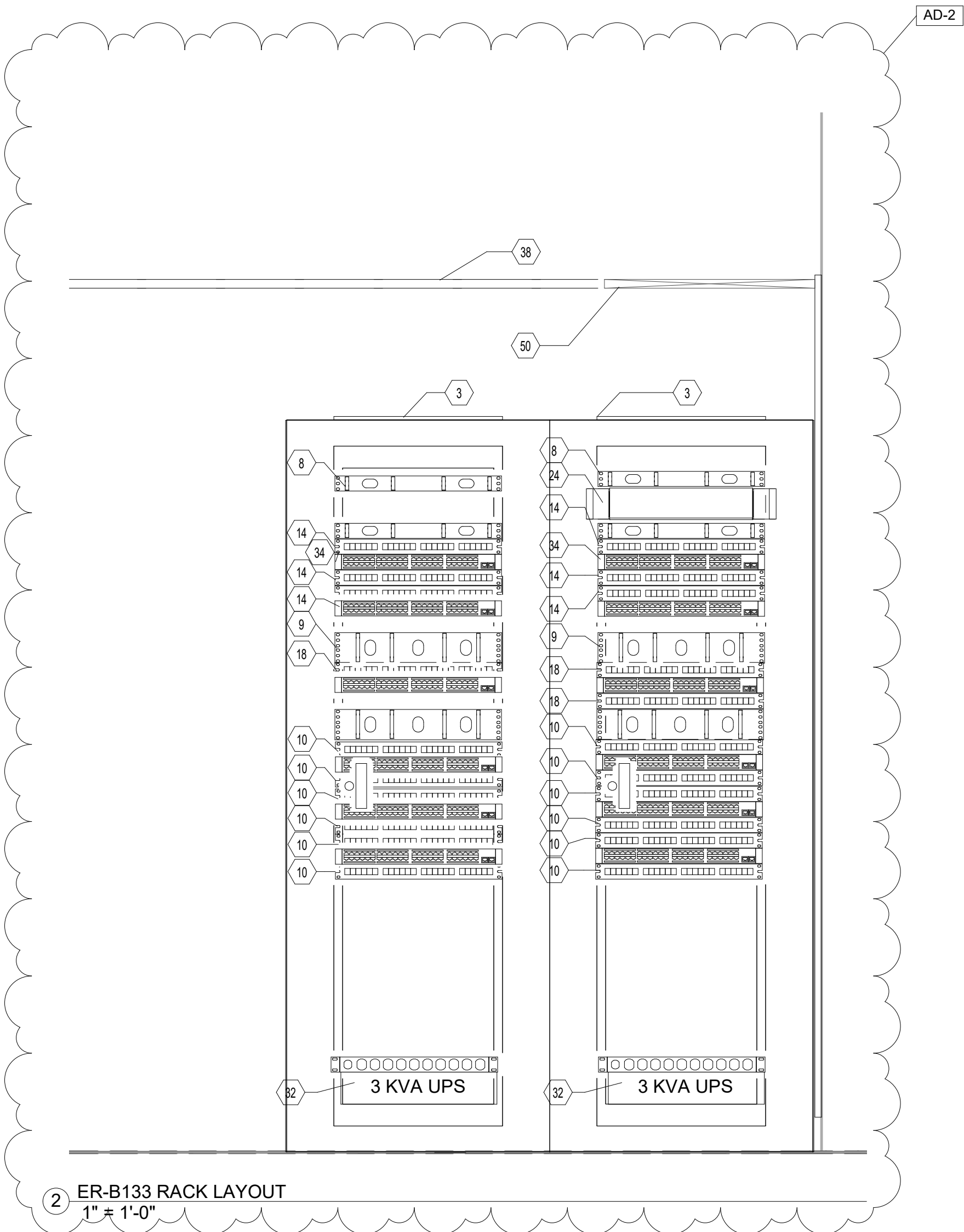


PROJECT

**JACKSON  
ELEMENTARY  
SCHOOL -  
ADDITIONS &  
RENOVATIONS**

DUNELAND SCHOOL CORPORATION  
CHESTERTON, INDIANA

| Keynote Legend |                                                                               |
|----------------|-------------------------------------------------------------------------------|
| Key Value      | Keynote Text                                                                  |
| 1              | TELECOMMUNICATIONS BACKBOARD; 4' X 8' MOUNTED VERTICALLY AT 6" AFF (TYPICAL). |
| 3              | GROUNDING BUSBAR.                                                             |
| 8              | WIRE MANAGEMENT PANEL 1 RU (TYPICAL)                                          |
| 9              | WIRE MANAGEMENT PANEL 2 RU (TYPICAL)                                          |
| 10             | 24 PORT HORIZONTAL PATCH PANEL                                                |
| 14             | 24 PORT WIRELESS ACCESS POINT PANEL                                           |
| 18             | 24 PORT SECURITY PANEL                                                        |
| 24             | FIBER OPTIC PATCH PANEL 2 RU                                                  |
| 32             | RACK MOUNTED UPS 3 KVA                                                        |
| 34             | NETWORK SWITCH (BY OWNER) (TYPICAL)                                           |
| 38             | LADDER RACK/CABLE RUNWAY (TYPICAL).                                           |
| 40             | 18" LADDER RACK/CABLE RUNWAY (TYPICAL).                                       |
| 41             | 24" LADDER RACK/CABLE RUNWAY (TYPICAL).                                       |
| 50             | RADIUS CONTROL DEVICE(S) WHERE CABLE DROPS FROM PATHWAY (TYPICAL).            |
| 53             | SLEEVES, 4" (TYPICAL).                                                        |
| 57             | FRONT OF RACKS.                                                               |



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PROJECT

21-143

DATE

10/31/22

COORDINATED BY

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DRAWN BY

ZAW-TKP

CHECKED BY

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**REVISIONS**

| MARK | DATE     | ISSUED FOR |
|------|----------|------------|
| AD-2 | 11/16/22 | ADDENDUM 2 |

DRAWING

**TELECOMM ROOM B-133  
ENLARGED DETAILS**

PROJECT

**JACKSON ES -  
ADDITIONS & RENOVATIONS**

GIBRALTAR  
DESIGN

SHEET

**T401**