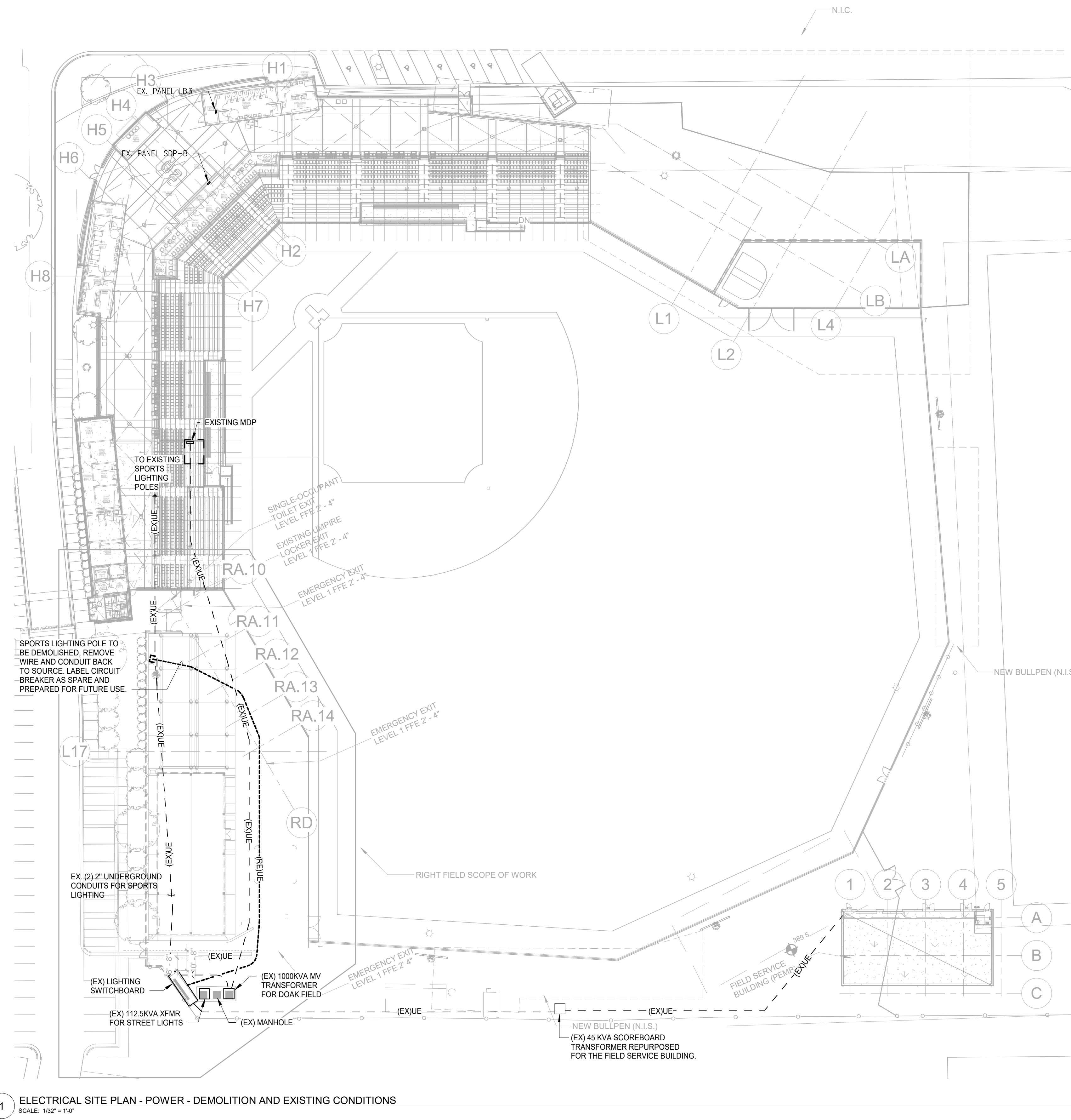




**GENERAL NOTES**

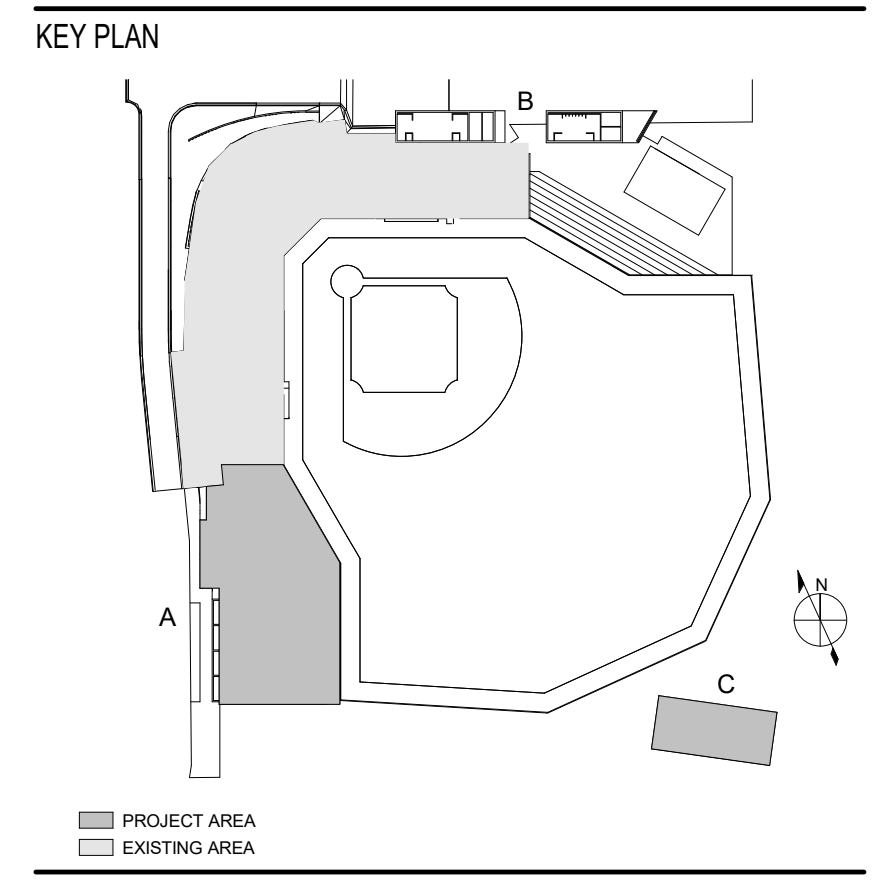
- FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS, AND DRAWING INDEX SEE DRAWINGS EG.1.
- UNLESS NOTED OTHERWISE, ALL ELECTRICAL DEVICES AND EQUIPMENT, SHOWN IN A LIGHT LINE WEIGHT ARE EXISTING TO REMAIN.
- ALL ELECTRICAL DEVICES AND EQUIPMENT, SHOWN IN A DARK DASHED LINE WEIGHT, ARE DEMOLISHED UNDER THIS PROJECT.
- ALL EXISTING DIMENSIONS AND CONDITIONS MUST BE VERIFIED BY CONTRACTOR AT THE SITE.
- WHERE EQUIPMENT AND CONDUIT ARE TO BE INSTALLED WITHIN LIMITING CONDITIONS, IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO MODIFY DETAILS OR PROVIDE SPECIAL FITTINGS TO SUIT.
- BEFORE EXCAVATING, THE ELECTRICAL CONTRACTOR SHALL TAKE ALL POSSIBLE PRECAUTIONS TO LOCATE AND COORDINATE ALL EXISTING UNDERGROUND FACILITIES.
- LOCATION OF UNDERGROUND CONDUIT RUNS IS DIAGRAMMATIC ONLY. NEW PIPING SHALL BE INSTALLED AS NECESSARY TO AVOID INTERFERENCE WITH EXISTING FACILITIES.
- ALL EXISTING WORK, DAMAGED BY ELECTRICAL CONSTRUCTION OPERATIONS, SHALL BE REPAIRED AND RESTORED TO ORIGINAL CONDITION.
- COORDINATE WITH SITE OWNER ALL EXISTING LANDSCAPE FEATURES (TREES, SHRUBS, ETC.) NOT WISHED TO BE DISTURBED. TAKE PRECAUTIONS TO AVOID DAMAGES.
- THE ELECTRICAL CONTRACTOR MUST COORDINATE ALL ELECTRICAL SITEWORK WITH THE SITEWORK CONSULTANT.



1 ELECTRICAL SITE PLAN - POWER - DEMOLITION AND EXISTING CONDITIONS  
SCALE: 1/32" = 1'-0"



SCO PROJECT NO. 22-24384-01A  
NC STATE PROJ. NO. 202120015



PRINCIPAL  
WILLIAM MCCULLOUGH  
PROJECT MANAGER  
GEORGE BUSHEY  
ELECTRICAL ENGINEER  
RICHARD GARMAN



REVISIONS		
NO.	DESCRIPTION	DATE
1	PACKAGE A - LEFT & RIGHT FIELD ADDITIONS	01/29/2024

**NC STATE UNIVERSITY**  
1081 Varsity Dr  
Raleigh, NC 27606

**DOAK FIELD ENHANCEMENT**

DRAWN BY: RM DATE: 01/29/2024  
PROJECT NO.: 20220400 SCALE: 1/32" = 1'-0"  
DRAWING NAME: ELECTRICAL SITE PLAN - POWER - DEMOLITION AND EXISTING CONDITIONS  
FLOOR/SECTION PHASE: CD DRAWING NO.: ED0.1

**DRAWING NOTES**

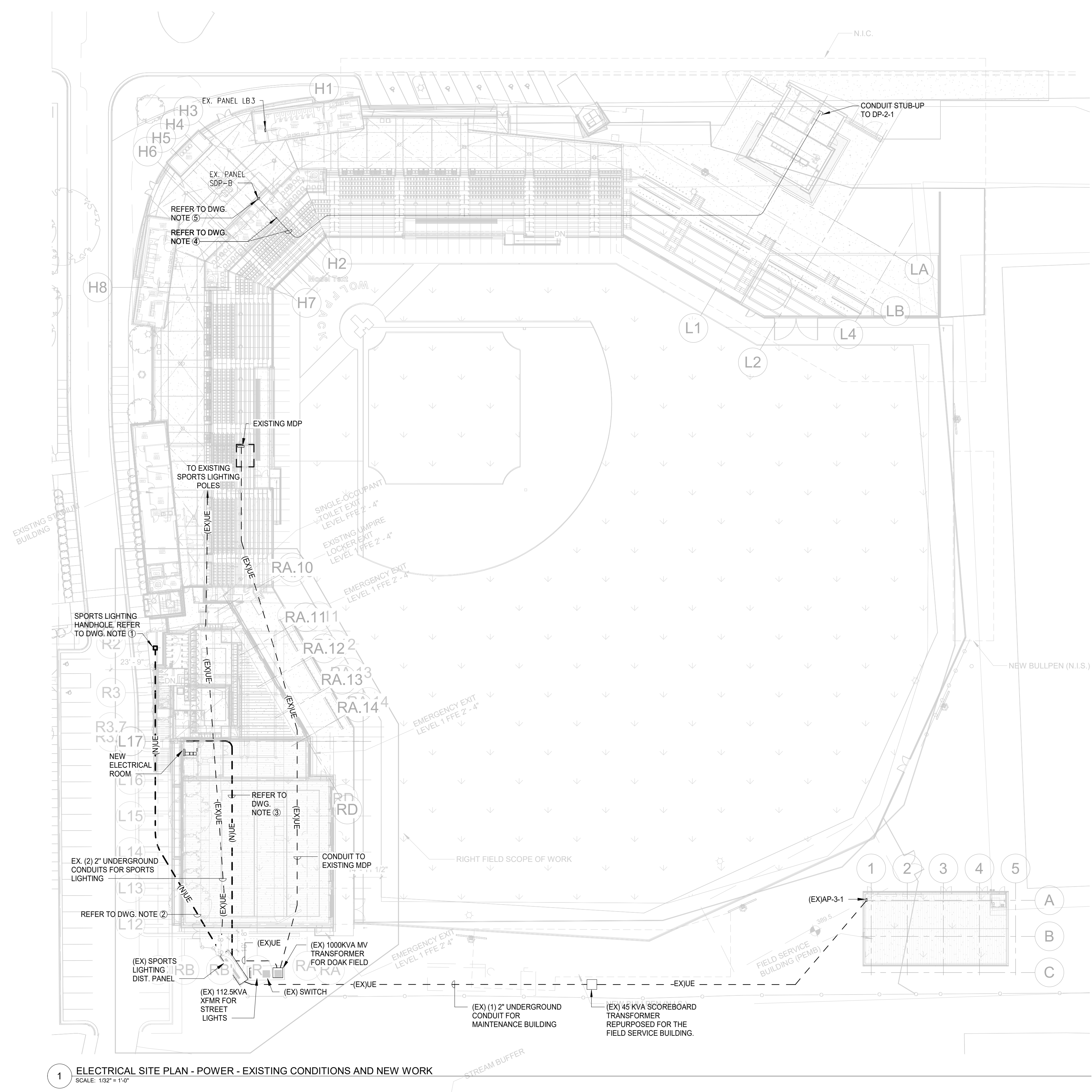
1. PROVIDE 24"W X 24"L X 36"H PRECAST POLYMER HANDHOLE WITH POLYMER COVER AT THE BASE OF THE NEW SPORTS LIGHTING POLE.
2. PROVIDE CONCRETE ENCASED PVC CONDUIT FOR THE NEW SPORTS LIGHTING POLE. REFER TO SINGLE LINE DIAGRAM FOR CONDUIT QUANTITY AND SIZE.
3. PROVIDE CONCRETE ENCASED CONDUIT TO NEW DISTRIBUTION PANEL DP-1-1 LOCATED IN THE NEW TRAINING FACILITY'S ELECTRICAL CLOSET. REFER TO THE SINGLE LINE DIAGRAM E3.1.1 FOR CONDUIT SIZE.
4. CONDUIT TO BE ROUTED DOWN WALL OF PRESS BOX BUILDING. PENETRATE THROUGH THE CONCOURSE AND BE ROUTED IN OPEN CAVITY UNDER THE SEATING BOWL TO PANEL DP-2-1. REFER TO THE SINGLE LINE DIAGRAM E3.1.1 FOR CONDUIT SIZE.
5. EXISTING PANEL SDP-B LOCATED IN ELECTRICAL ROOM B216B WILL BE UTILIZED TO POWER NEW PANEL DP-2-1. REFER TO SINGLE LINE DIAGRAM ON E3.1.1 FOR ADDITIONAL INFORMATION.

**GENERAL NOTES**

1. FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS, AND DRAWING INDEX SEE DRAWINGS EG.1 AND FOR DETAIL SHEET EG.1.
2. UNLESS NOTED OTHERWISE, ALL ELECTRICAL DEVICES AND EQUIPMENT, SHOWN IN A LIGHT LINE WEIGHT, ARE EXISTING TO REMAIN.
3. ALL ELECTRICAL DEVICES AND EQUIPMENT, SHOWN IN A DARK LINE WEIGHT, IS NEW WORK UNDER THIS PROJECT.
4. ALL EXISTING DIMENSIONS AND CONDITIONS MUST BE VERIFIED BY CONTRACTOR AT THE SITE.
5. WHERE EQUIPMENT AND CONDUIT ARE TO BE INSTALLED WITHIN LIMITING CONDITIONS, IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO MODIFY DETAILS OR PROVIDE SPECIAL FITTINGS TO SUIT.
6. BEFORE EXCAVATING, THE ELECTRICAL CONTRACTOR SHALL TAKE ALL POSSIBLE PRECAUTIONS TO LOCATE AND COORDINATE ALL EXISTING UNDERGROUND FACILITIES.
7. LOCATION OF UNDERGROUND CONDUIT RUNS IS DIAGRAMMATIC ONLY. NEW PIPING SHALL BE INSTALLED AS NECESSARY TO AVOID INTERFERENCE WITH EXISTING FACILITIES.
8. ALL EXISTING WORK, DAMAGED BY ELECTRICAL CONSTRUCTION OPERATIONS, SHALL BE REPAIRED AND RESTORED TO ORIGINAL CONDITION.
9. COORDINATE WITH SITE OWNER ALL EXISTING LANDSCAPE FEATURES (TREES, SHRUBS, ETC.) NOT WISHED TO BE DISTURBED. TAKE PRECAUTIONS TO AVOID DAMAGES.
10. THE ELECTRICAL CONTRACTOR MUST COORDINATE ALL ELECTRICAL SITEWORK WITH THE SITEWORK CONSULTANT.
11. UNLESS OTHERWISE NOTED, PROVIDE THE FOLLOWING WIRE SIZES BASED ON CIRCUIT LENGTH IN ORDER TO LIMIT VOLTAGE DROP TO LESS THAN 3%.

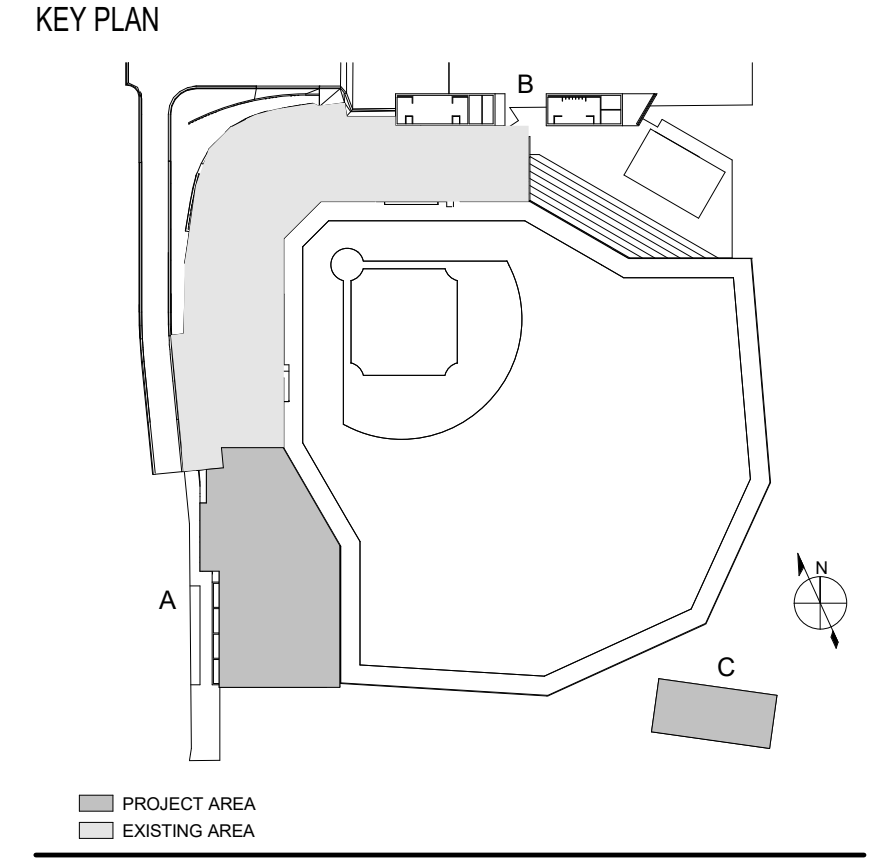
- FOR 120V:
- A. LESS THAN 90 FEET: 2#12 & #12G, 3/4"C.
  - B. MORE THAN 90 FEET, BUT LESS THAN 150 FEET: 2#10 & #10G, 3/4"C.
  - C. MORE THAN 150 FEET: 2#8 & #8G, 3/4"C.
- FOR 277V:
- A. LESS THAN 180 FEET: 2#12 & #12G, 3/4"C.
  - B. MORE THAN 180 FEET, BUT LESS THAN 300 FEET: 2#10 & #10G, 3/4"C.
  - C. MORE THAN 300 FEET: 2#8 & #8G, 3/4"C.

12. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL ROUGH-IN REQUIREMENTS FOR LOW VOLTAGE AND AV SYSTEMS. REFER TO TECHNOLOGY, AV AND SECURITY DRAWINGS FOR ROUGH-IN LOCATIONS, BACKBOX AND PATHWAY REQUIREMENTS. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL BACKBOXES, CONDUITS WITH PULLCORD, JUNCTION BOXES, ETC. AS SHOWN ON THE LOW VOLTAGE, AV AND SECURITY DRAWINGS, REGARDLESS OF WHETHER THEY ARE INDICATED ON THE ELECTRICAL PLANS OR NOT. REFER TO "T" AND "AV" DRAWINGS FOR ALL LOW VOLTAGE DEVICES, ROUGH-IN REQUIREMENTS AND MOUNTING.
13. ALL CONDUIT ROUTING UNDER NEW BUILDING FOOTPRINT SHALL BE COORDINATED WITH ALL POTENTIAL OBSTRUCTIONS (STRUCTURAL FOOTERS, EXISTING UTILITIES, ETC)
14. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL ROUGH-IN REQUIREMENTS FOR LOW VOLTAGE, SECURITY AND AV SYSTEMS. REFER TO TECHNOLOGY, AV AND SECURITY DRAWINGS FOR ROUGH-IN LOCATIONS, BACKBOX AND PATHWAY REQUIREMENTS. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL BACKBOXES, CONDUITS WITH PULLCORD, JUNCTION BOXES, ETC. AS SHOWN ON THE LOW VOLTAGE, AV AND SECURITY DRAWINGS, REGARDLESS OF WHETHER THEY ARE INDICATED ON THE ELECTRICAL PLANS OR NOT. REFER TO "T" AND "AV" DRAWINGS FOR ALL LOW VOLTAGE DEVICES, ROUGH-IN REQUIREMENTS AND MOUNTING.

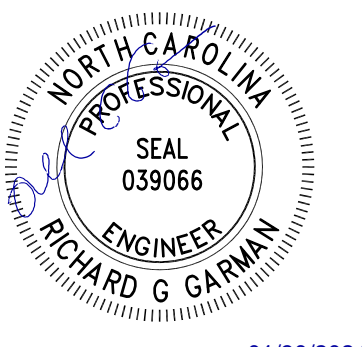


1 ELECTRICAL SITE PLAN - POWER - EXISTING CONDITIONS AND NEW WORK  
SCALE: 1/32" = 1'-0"

SCO PROJECT NO. 22-24384-01A  
NC STATE PROJ. NO. 202120015



PRINCIPAL  
WILLIAM MCCULLOUGH  
PROJECT MANAGER  
GEORGE BUSHEY  
ELECTRICAL ENGINEER  
RICHARD GARMAN



REVISIONS		
NO.	DESCRIPTION	DATE
EC	PACKAGE A - LEFT & RIGHT FIELD ADDITIONS	01/29/2024

**NC STATE UNIVERSITY**

**DOAK FIELD ENHANCEMENT**  
1081 Varsity Dr  
Raleigh, NC 27606

DRAWN BY RM DATE 01/29/2024

PROJECT NO. 20220400 SCALE 1/32" = 1'-0"

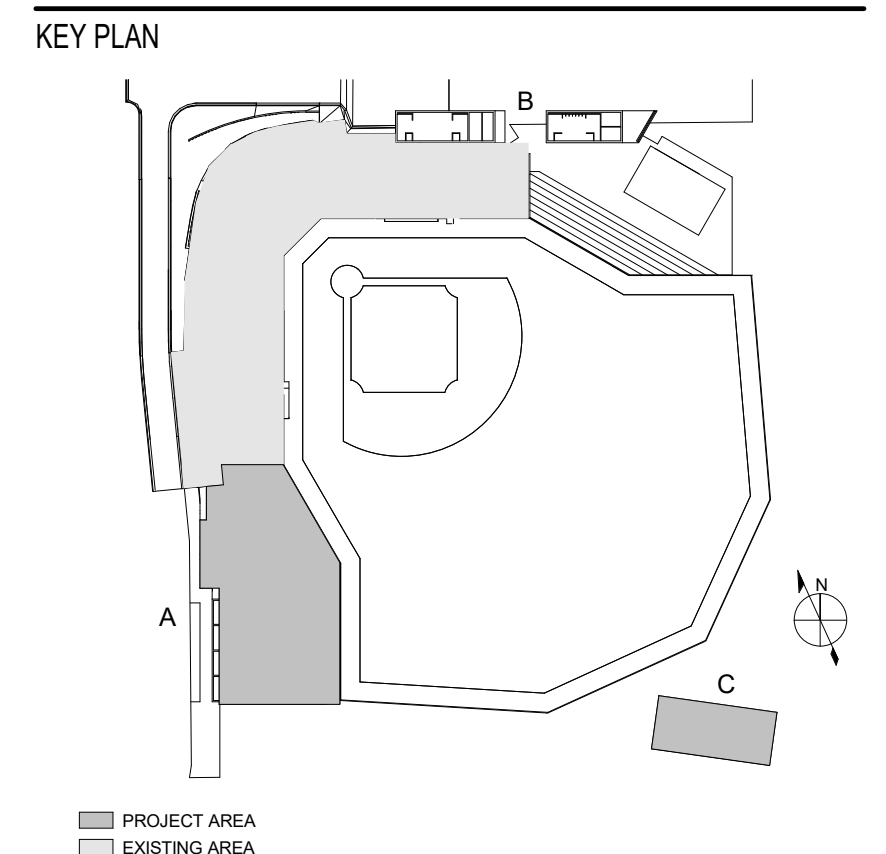
DRAWING NAME  
ELECTRICAL SITE PLAN - POWER - EXISTING CONDITIONS AND NEW WORK

FLOOR/SECTION PHASE DRAWING NO.

CD EP0.1



SCO PROJECT NO. 22-24384-01A  
NC STATE PROJ. NO. 202120015



PRINCIPAL  
WILLIAM MCCULLOUGH  
PROJECT MANAGER  
GEORGE BUSHEY  
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RICHARD GARMAN



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**NC STATE UNIVERSITY**

**DOAK FIELD ENHANCEMENT**  
1081 Varsity Dr  
Raleigh, NC 27606

DRAWN BY RM DATE 01/29/2024

PROJECT NO. 20220400 SCALE 1/8" = 1'-0"

DRAWING NAME

FIRST FLOOR PLAN - TRAINING FACILITY - POWER - EXISTING CONDITIONS AND NEW WORK

FLOOR/SECTION PHASE DRAWING NO.

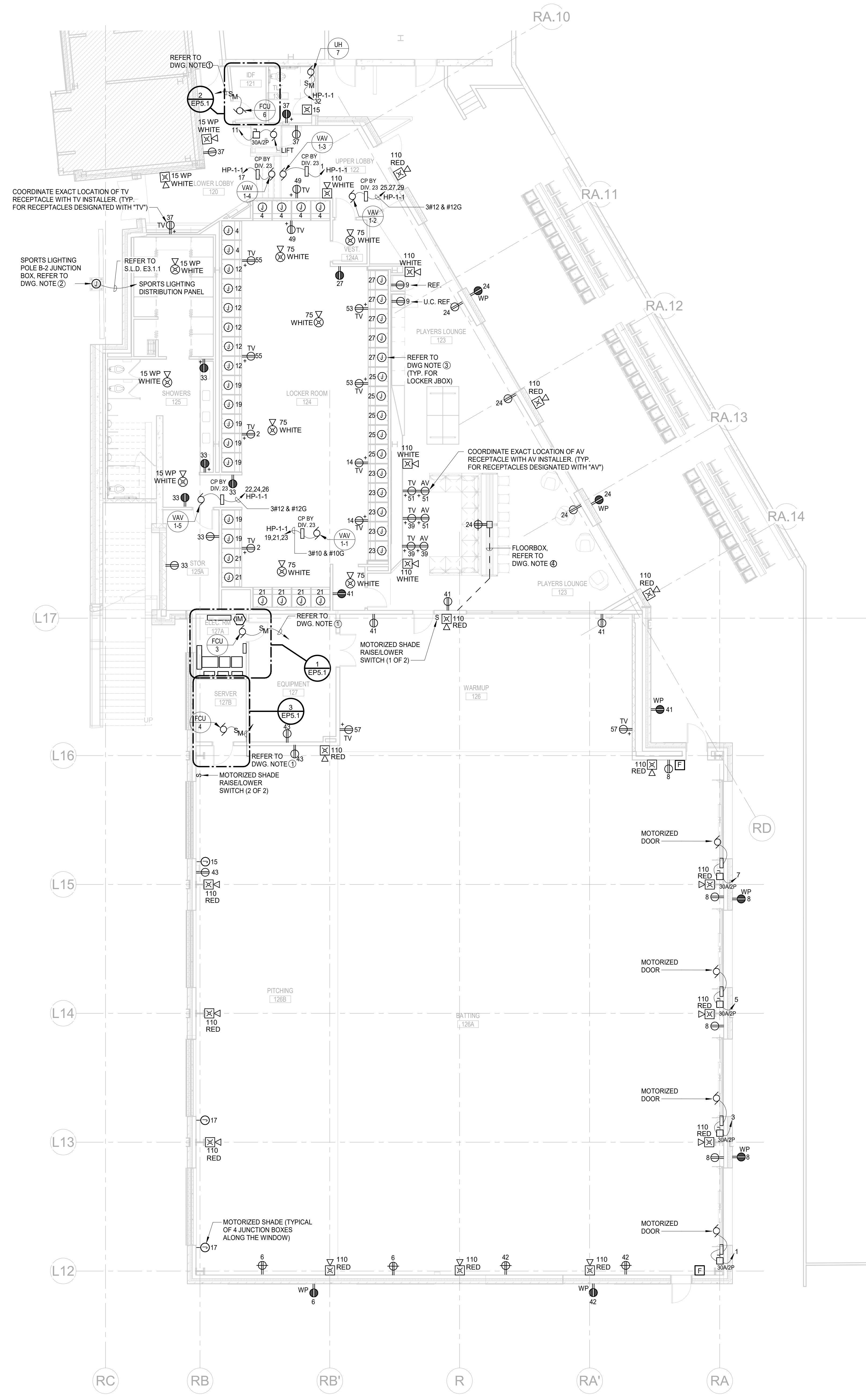
CD EP2.1.1

**DRAWING NOTES:**

1. OUTDOOR CONDENSING UNIT TO POWER INDOOR FAN COIL UNIT IN A FEED THROUGH MANNER. PROVIDE 2#12 & #12G INTERCONNECTION WIRE IN 3/4" AS NECESSARY.
2. COORDINATE EXACT LOCATION OF SPORTS LIGHTING POLE B-2 JUNCTION BOX WITH ARCHITECTURAL PLANS. THE SPORTS LIGHTING SCOPE OF THIS PROJECT ENDS AT THIS HANDLE. ELECTRICAL CONNECTION AND WIRING FOR THE SPORTS LIGHTING POLE IS TO BE PROVIDED BY OWNER/OTHERS.
3. LOCKER RECEPTACLE POWER SUPPLY. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL BRANCH CIRCUIT WIRING, CONDUIT, CONNECTIONS, ETC. REQUIRED FOR CONNECTION OF LOCKER RECEPTACLES. LOCKER RECEPTACLES SHALL BE PROVIDED BY LOCKER MANUFACTURER.
4. FLOOR BOX (LEGRAND MODEL # RFB2R30 OR APPROVED EQUAL) EXACT LOCATION SHALL BE COORDINATED WITH ARCHITECT PRIOR TO INSTALL. CONDUIT PATHWAY SHALL BE TO CLOSEST WALL AND STUB UP INTO A JUNCTION BOX ABOVE THE CEILING.

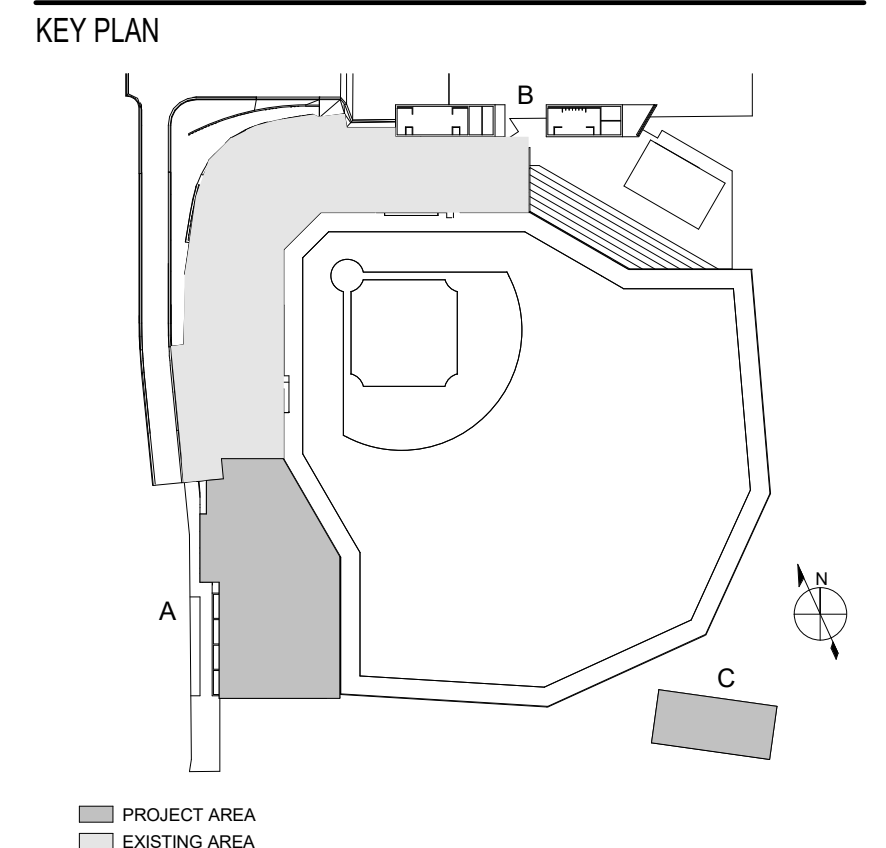
**GENERAL NOTES:**

1. FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS, AND DRAWING INDEX REFER TO DRAWINGS EG.1.
2. COORDINATE DEVICE LOCATIONS WITH CASEWORK AND FURNITURE ELEVATIONS. REFER TO ARCHITECTURAL DETAILS AND ELEVATIONS FOR ADDITIONAL INFORMATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO ROUGH IN.
3. NUMERICAL DESIGNATION BESIDES AN ELECTRICAL DEVICE INDICATES THE BRANCH CIRCUIT BREAKER AT THE PANELBOARD.
4. UNLESS OTHERWISE NOTED, ALL NORMAL POWERED DEVICES SHALL BE CIRCUITED TO PANEL AP-1.
5. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS AND QUANTITIES OF DUCT MOUNTED SMOKE DETECTORS.
6. UNLESS OTHERWISE NOTED, ALL BRANCH CIRCUIT BREAKERS SHALL BE 20 AMPERE, 120V, 1 POLE.
7. UNLESS OTHERWISE NOTED, PROVIDE THE FOLLOWING WIRE SIZES BASED ON CIRCUIT LENGTH IN ORDER TO LIMIT VOLTAGE DROP TO LESS THAN 3%.
  - FOR 120V:
    - A. LESS THAN 90 FEET: 2#12 & #12G, 3/4".
    - B. MORE THAN 90 FEET, BUT LESS THAN 150 FEET: 2#10 & #10G, 3/4".
    - C. MORE THAN 150 FEET: 2#8 & #8G, 3/4".
  - FOR 277V:
    - A. LESS THAN 180 FEET: 2#12 & #12G, 3/4".
    - B. MORE THAN 180 FEET, BUT LESS THAN 300 FEET: 2#10 & #10G, 3/4".
    - C. MORE THAN 300 FEET: 2#8 & #8G, 3/4".
8. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS AND QUANTITIES OF AIR VOLUME CONTROL BOXES, FAN COIL UNITS, UNIT HEATERS, ETC. AND SPECIFICATIONS FOR CIRCUITING REQUIREMENTS. VAV BOXES WITH FANS AND ELECTRIC HEAT SHALL BE CIRCUITED AS INDICATED IN PLANS.
9. RECEPTACLES FEEDING DEDICATED EQUIPMENT ARE DESIGNATED WITH A HOME RUN AND SHALL BE CONNECTED ONE PER CIRCUIT, WITH CIRCUIT BREAKER SIZE AS INDICATED.
10. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL ROUGH-IN REQUIREMENTS FOR LOW VOLTAGE AND AV SYSTEMS. REFER TO TECHNOLOGY, AV AND SECURITY DRAWINGS FOR ROUGH-IN LOCATIONS, BACKBOX AND PATHWAY REQUIREMENTS. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL BACKBOXES, CONDUITS WITH PULLCORD, JUNCTION BOXES, ETC. AS SHOWN ON THE LOW VOLTAGE, AV AND SECURITY DRAWINGS, REGARDLESS OF WHETHER THEY ARE INDICATED ON THE ELECTRICAL PLANS OR NOT. REFER TO "T" AND "AV" DRAWINGS FOR ALL LOW VOLTAGE DEVICES, ROUGH-IN REQUIREMENTS AND MOUNTING.
11. ALL WIRING, INCLUDING SHIELDS MUST BE DRY AND FREE OF SHORTS AND GROUNDS.
12. ONLY SYSTEM WIRING CAN BE RUN IN THE SAME CONDUIT
13. 120VAC IS NOT PERMITTED IN THE SAME CONDUIT WITH LOW VOLTAGE WIRING.
14. MAINTAIN 40 PERCENT CONDUIT FILL RATIO AS PER NEC REQUIREMENTS
15. DIV 28 CONTRACTOR TO PROVIDE STROBE POWER EXTENDER PANELS AND AMPLIFIERS AS NECESSARY TO SUPPLY POWER TO ALL NOTIFICATION APPLIANCES.

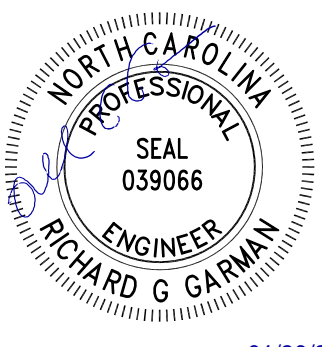




SCO PROJECT NO. 22-24384-01A  
NC STATE PROJ. NO. 202120015



PRINCIPAL  
WILLIAM MCCULLOUGH  
PROJECT MANAGER  
GEORGE BUSHEY  
ELECTRICAL ENGINEER  
RICHARD GARMAN



REVISIONS		
NO.	DESCRIPTION	DATE

**NC STATE UNIVERSITY**  
1081 Varsity Dr  
Raleigh, NC 27606

DRAWN BY RM DATE 01/29/2024

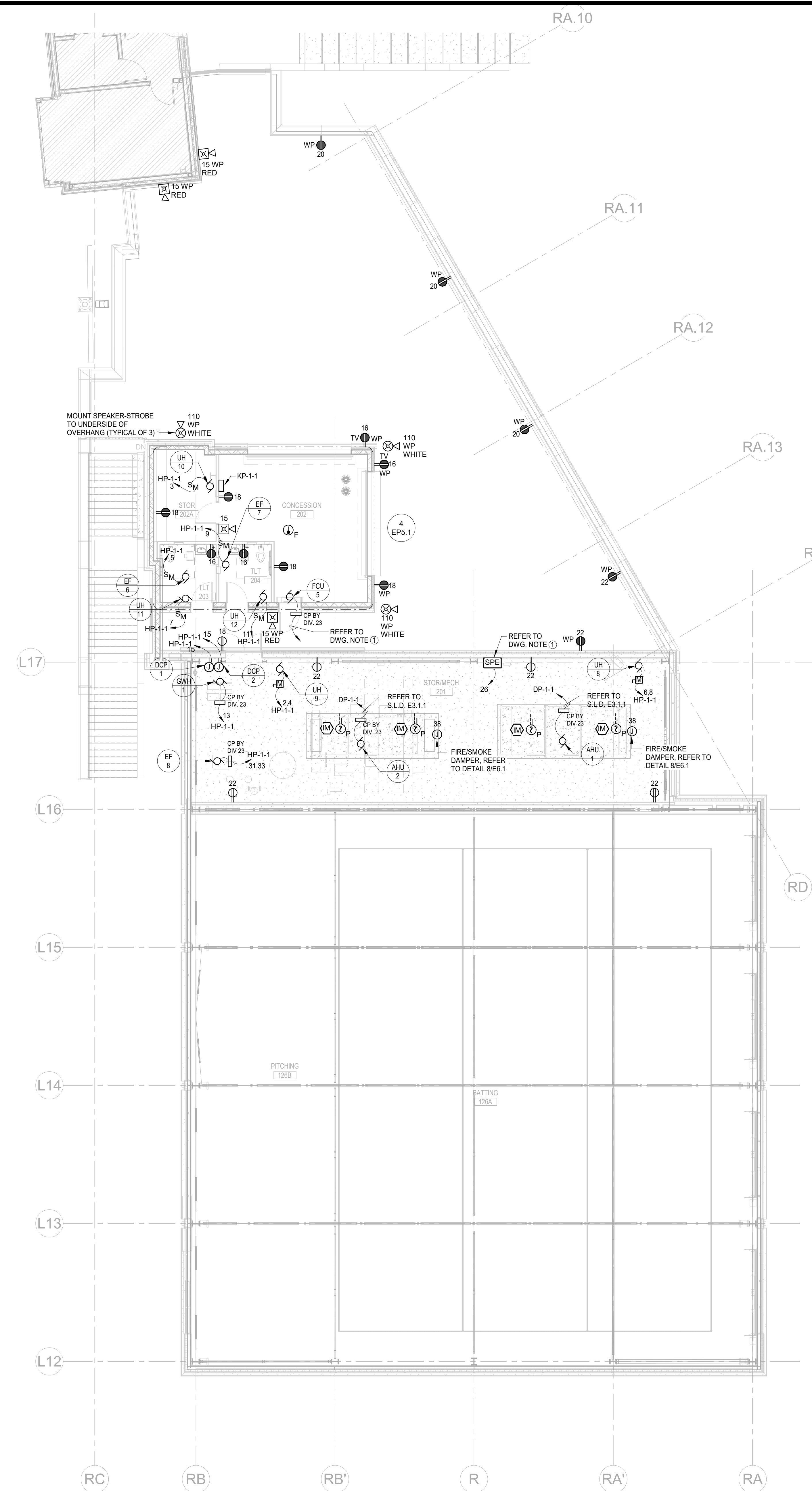
PROJECT NO. 20220400 SCALE 1/8" = 1'-0"

DRAWING NAME  
SECOND FLOOR PLAN - TRAINING FACILITY - POWER - EXISTING  
CONDITIONS & NEW WORK

FLOOR/SECTION PHASE DRAWING NO.  
CD EP2.1.2

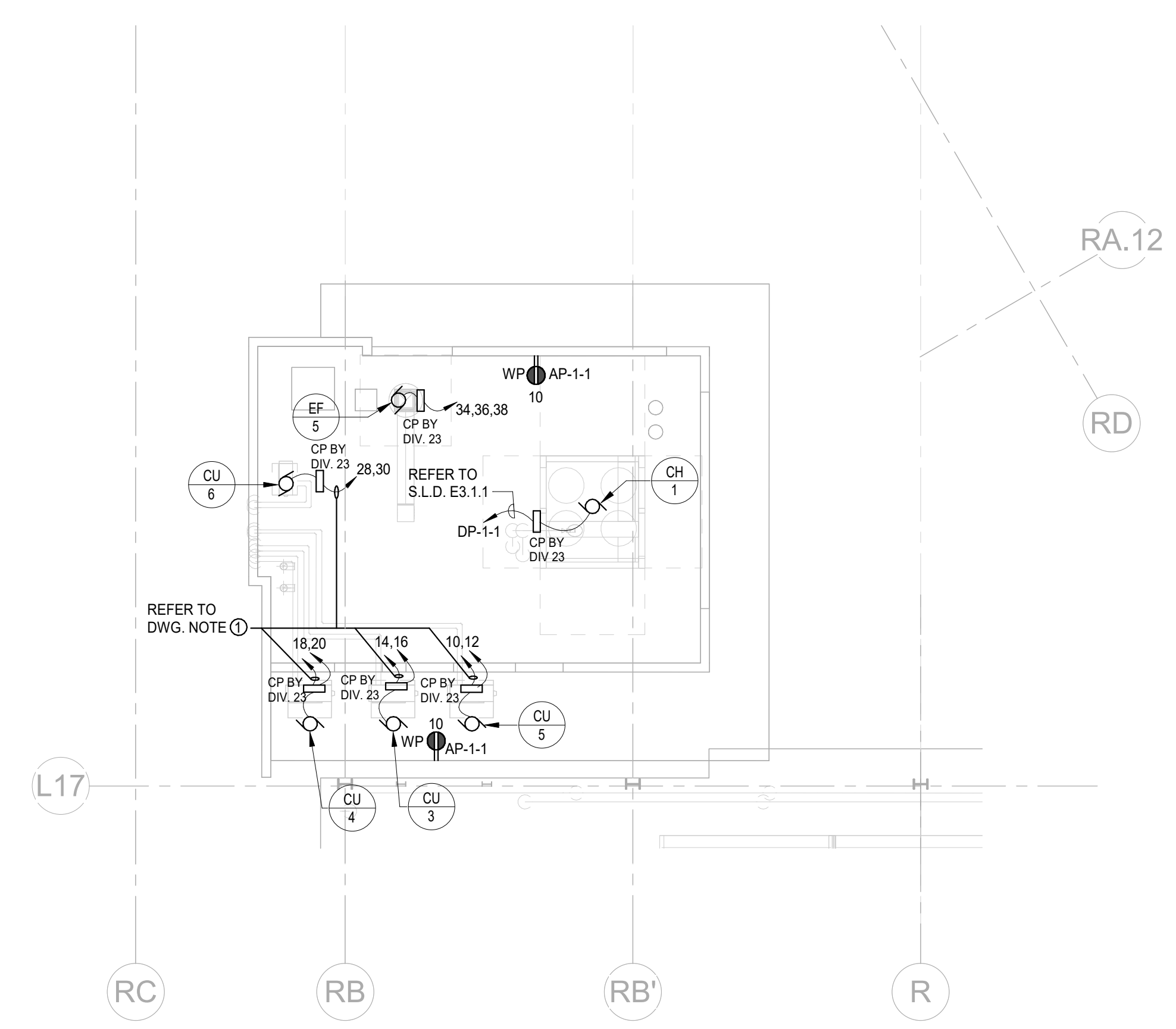
- DRAWING NOTES:**
- OUTDOOR CONDENSING UNIT TO POWER INDOOR FAN COIL UNIT IN A FEED THROUGH MANNER. PROVIDE 2#12 & #12G INTERCONNECTION WIRE IN 3/4" AS NECESSARY.
  - PROVIDE POWER EXTENDER PANEL TO EXPAND EXISTING FIRE ALARM SYSTEM. PROVIDE EQUIPMENT AND DEVICES COMPATIBLE WITH EXISTING FCI 7200 FIRE ALARM CONTROL PANEL.

- GENERAL NOTES:**
- FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS, AND DRAWING INDEX REFER TO DRAWINGS EG.1.
  - COORDINATE DEVICE LOCATIONS WITH CASEWORK AND FURNITURE ELEVATIONS. REFER TO ARCHITECTURAL DETAILS AND ELEVATIONS FOR ADDITIONAL INFORMATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO ROUGH IN.
  - NUMERICAL DESIGNATION BESIDES AN ELECTRICAL DEVICE INDICATES THE BRANCH CIRCUIT BREAKER AT THE PANELBOARD.
  - REFER TO MECHANICAL DRAWINGS FOR LOCATIONS AND QUANTITIES OF DUCT MOUNTED SMOKE DETECTORS.
  - UNLESS OTHERWISE NOTED, ALL BRANCH CIRCUIT BREAKERS SHALL BE 20 AMPERE, 120V, 1 POLE.
  - UNLESS OTHERWISE NOTED, PROVIDE THE FOLLOWING WIRE SIZES BASED ON CIRCUIT LENGTH IN ORDER TO LIMIT VOLTAGE DROP TO LESS THAN 3%.  
FOR 120V:  
A. LESS THAN 90 FEET: 2#12 & #12G, 3/4".  
B. MORE THAN 90 FEET, BUT LESS THAN 150 FEET: 2#10 & #10G, 3/4".  
C. MORE THAN 150 FEET: 2#8 & #8G, 3/4".  
FOR 277V:  
A. LESS THAN 180 FEET: 2#12 & #12G, 3/4".  
B. MORE THAN 180 FEET, BUT LESS THAN 300 FEET: 2#10 & #10G, 3/4".  
C. MORE THAN 300 FEET: 2#8 & #8G, 3/4".
  - REFER TO MECHANICAL DRAWINGS FOR LOCATIONS AND QUANTITIES OF AIR VOLUME CONTROL BOXES, FAN COIL UNITS, UNIT HEATERS, ETC. AND SPECIFICATIONS FOR CIRCUITING REQUIREMENTS. VAV BOXES WITH FANS AND ELECTRIC HEAT SHALL BE CIRCUITED AS INDICATED IN PLANS.
  - RECEPTACLES FEEDING DEDICATED EQUIPMENT ARE DESIGNATED WITH A HOME RUN AND SHALL BE CONNECTED ONE PER CIRCUIT, WITH CIRCUIT BREAKER SIZE AS INDICATED.
  - ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL ROUGH-IN REQUIREMENTS FOR LOW VOLTAGE AND A/V SYSTEMS. REFER TO TECHNOLOGY, A/V AND SECURITY DRAWINGS FOR ROUGH-IN LOCATIONS, BACKBOX AND PATHWAY REQUIREMENTS. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL BACKBOXES, CONDUITS WITH PULLCORD, JUNCTION BOXES, ETC. AS SHOWN ON THE LOW VOLTAGE, A/V AND SECURITY DRAWINGS. REGARDLESS OF WHETHER THEY ARE INDICATED ON THE ELECTRICAL PLANS OR NOT. REFER TO "T" AND "AV" DRAWINGS FOR ALL LOW VOLTAGE DEVICES, ROUGH-IN REQUIREMENTS AND MOUNTING.
  - ALL WIRING, INCLUDING SHIELDS MUST BE DRY AND FREE OF SHORTS AND GROUNDS.
  - ONLY SYSTEM WIRING CAN BE RUN IN THE SAME CONDUIT
  - 120VAC IS NOT PERMITTED IN THE SAME CONDUIT WITH LOW VOLTAGE WIRING.
  - MAINTAIN 40 PERCENT CONDUIT FILL RATIO AS PER NEC REQUIREMENTS
  - DIV 28 CONTRACTOR TO PROVIDE STROBE POWER EXTENDER PANELS AND AMPLIFIERS AS NECESSARY TO SUPPLY POWER TO ALL NOTIFICATION APPLIANCES.



1 SECOND FLOOR PLAN - TRAINING FACILITY - POWER - EXISTING CONDITIONS & NEW WORK  
SCALE: 1/8" = 1'-0"

**PLAN NOTE:**  
1. UNLESS OTHERWISE NOTED, ALL CIRCUITS SHALL BE FROM PANEL AP-1-1.

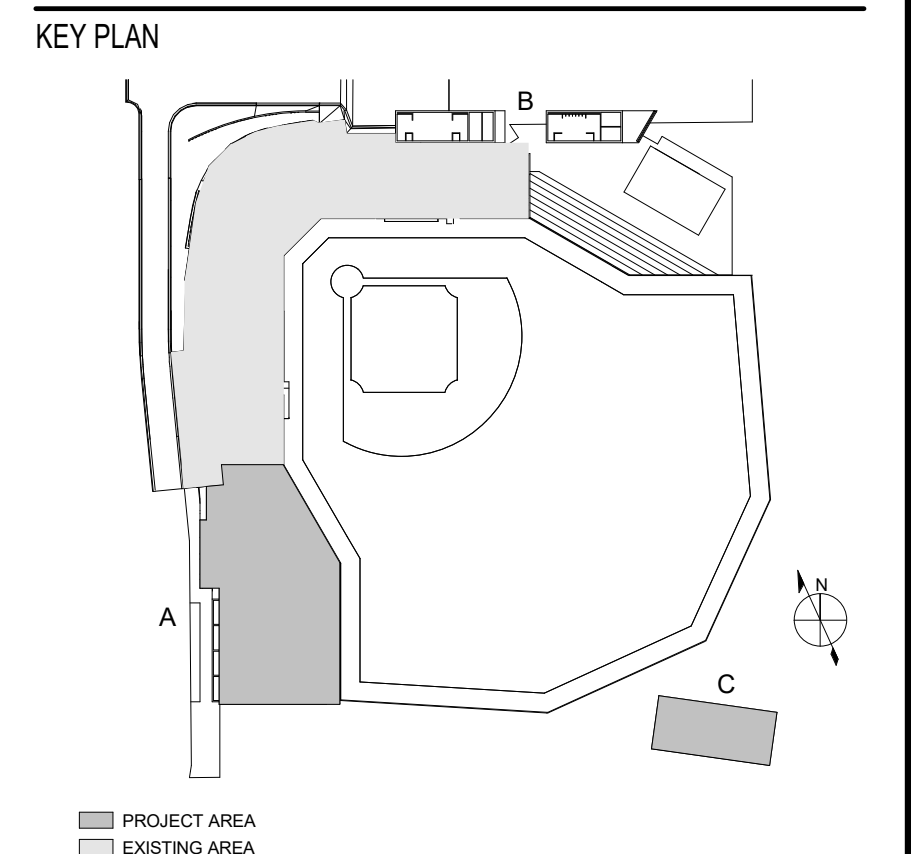


2 PARTIAL POWER PLAN - TRAINING FACILITY - ROOF LEVEL - EXISTING CONDITIONS AND NEW WORK  
SCALE: 1/8" = 1'-0"

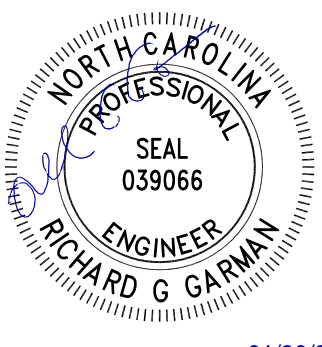
**PLAN NOTE:**  
1. UNLESS OTHERWISE NOTED, ALL CIRCUITS SHALL BE FROM PANEL HP-1-1.



SCO PROJECT NO. 22-24384-01A  
NC STATE PROJ. NO. 202120015



PRINCIPAL  
WILLIAM MCCULLOUGH  
PROJECT MANAGER  
GEORGE BUSHEY  
ELECTRICAL ENGINEER  
RICHARD GARMAN



REVISIONS		
NO.	DESCRIPTION	DATE
EC	PACKAGE A - LEFT & RIGHT FIELD ADDITIONS	01/29/2024

**NC STATE UNIVERSITY**

**DOAK FIELD ENHANCEMENT**  
1081 Varsity Dr  
Raleigh, NC 27606

DRAWN BY RM DATE 01/29/2024  
PROJECT NO. 20220400 SCALE 1/8" = 1'-0"  
DRAWING NAME  
SECOND FLOOR PLAN - CONCOURSE / LEFT FIELD - POWER - EXISTING CONDITIONS & NEW WORK

FLOOR/SECTION PHASE DRAWING NO.  
**CD EP2.2.1**

**DRAWING NOTES**

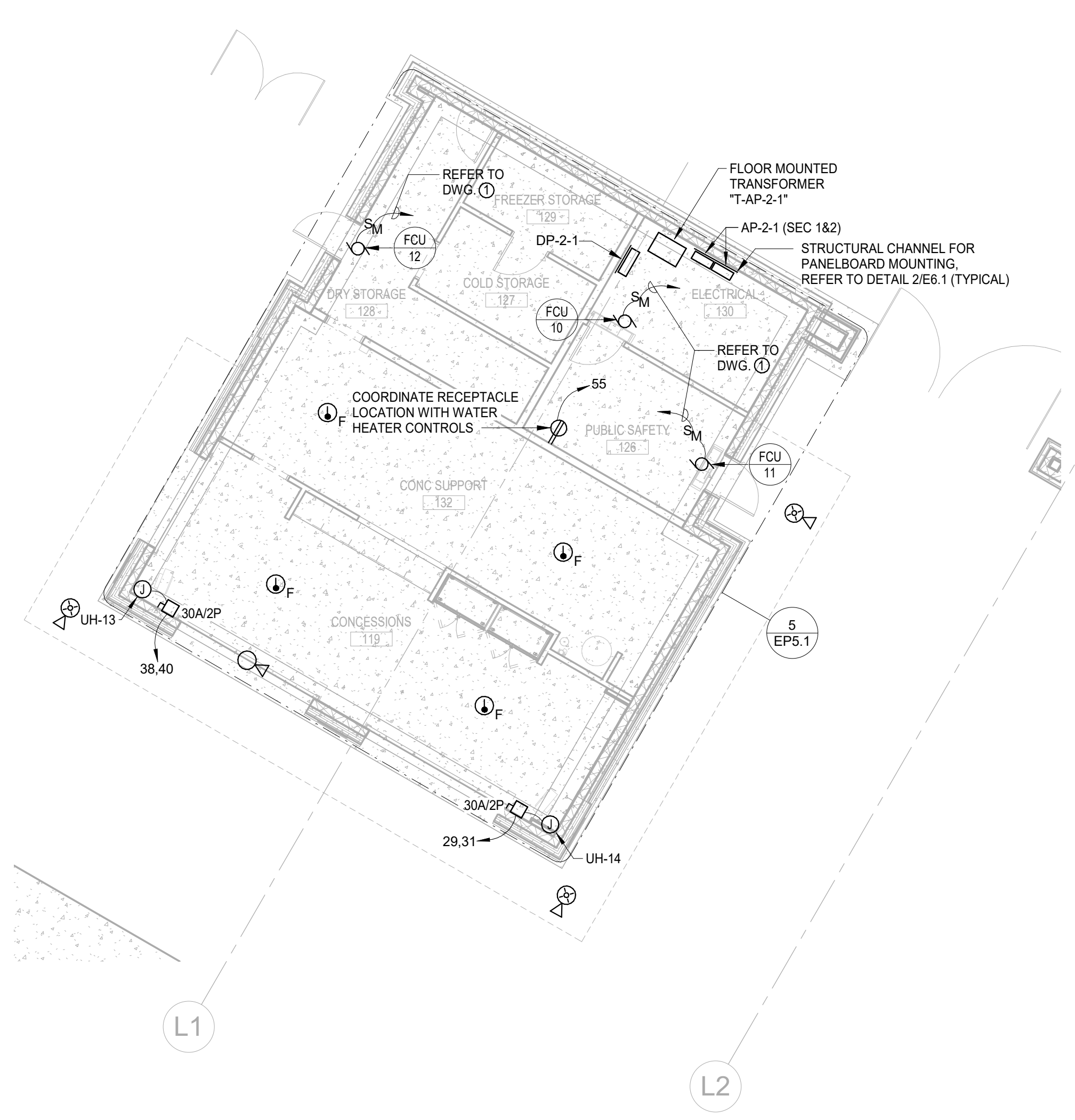
- OUTDOOR CONDENSING UNIT TO POWER INDOOR FAN COIL UNIT IN A FEED THROUGH MANNER. PROVIDE 2#12 & #12G INTERCONNECTION WIRE IN 3/4" AS NECESSARY.

**GENERAL NOTES**

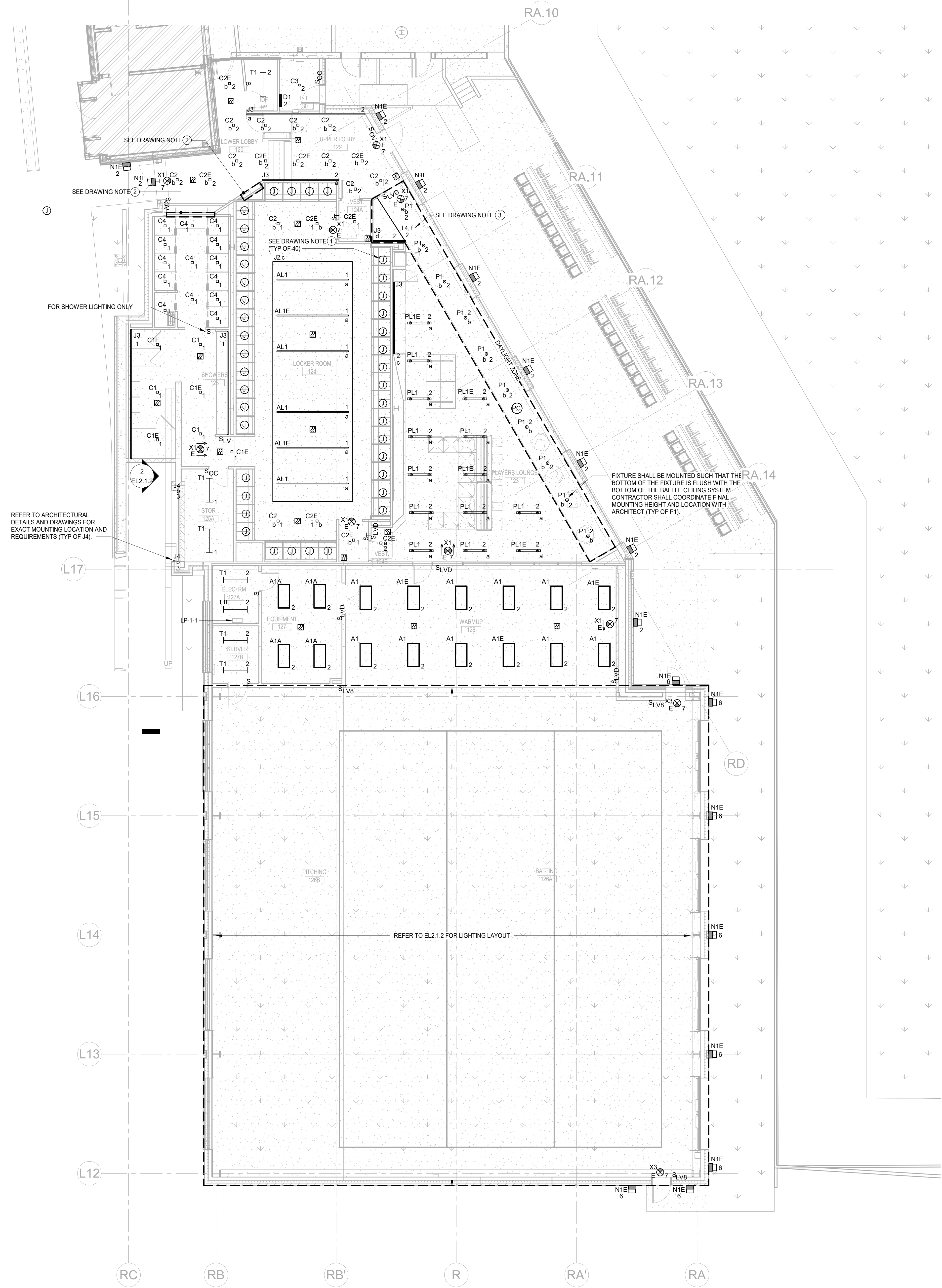
- FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS, AND DRAWING ELEVATIONS. REFER TO ARCHITECTURAL DETAILS AND ELEVATIONS FOR ADDITIONAL INFORMATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO ROUGH IN.
- COORDINATE DEVICE LOCATIONS WITH CASEWORK AND FURNITURE ELEVATIONS. REFER TO ARCHITECTURAL DETAILS AND ELEVATIONS FOR ADDITIONAL INFORMATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO ROUGH IN.
- NUMERICAL DESIGNATION BESIDES AN ELECTRICAL DEVICE INDICATES THE BRANCH CIRCUIT BREAKER AT THE PANELBOARD.
- UNLESS OTHERWISE NOTED, ALL NORMAL POWERED DEVICES SHALL BE CIRCUITED TO PANEL AP-2-1.
- REFER TO MECHANICAL DRAWINGS FOR LOCATIONS AND QUANTITIES OF DUCT MOUNTED SMOKE DETECTORS.
- UNLESS OTHERWISE NOTED, ALL BRANCH CIRCUIT BREAKERS SHALL BE 20 AMPERE, 120V, 1 POLE.
- UNLESS OTHERWISE NOTED, PROVIDE THE FOLLOWING WIRE SIZES BASED ON CIRCUIT LENGTH IN ORDER TO LIMIT VOLTAGE DROP TO LESS THAN 3%.
  - FOR 120V:
    - A. LESS THAN 90 FEET: 2#12 & #12G, 3/4"
    - B. MORE THAN 90 FEET, BUT LESS THAN 150 FEET: 2#10 & #10G, 3/4"
    - C. MORE THAN 150 FEET: 2#8 & #8G, 3/4"
  - FOR 277V:
    - A. LESS THAN 180 FEET: 2#12 & #12G, 3/4"
    - B. MORE THAN 180 FEET, BUT LESS THAN 300 FEET: 2#10 & #10G, 3/4"
    - C. MORE THAN 300 FEET: 2#8 & #8G, 3/4"
- REFER TO MECHANICAL DRAWINGS FOR LOCATIONS AND QUANTITIES OF AIR VOLUME CONTROL BOXES, FAN COIL UNITS, UNIT HEATERS, ETC. AND SPECIFICATIONS FOR CIRCUITING REQUIREMENTS. WAX BOXES WITH FANS AND ELECTRIC HEAT SHALL BE CIRCUITED AS INDICATED IN PLANS.
- RECEPTACLES FEEDING DEDICATED EQUIPMENT ARE DESIGNATED WITH A HOME RUN AND SHALL BE CONNECTED ONE PER CIRCUIT, WITH CIRCUIT BREAKER SIZE AS INDICATED.
- ALL WIRING, INCLUDING SHIELDS MUST BE DRY AND FREE OF SHORTS AND GROUNDS.
- ONLY SYSTEM WIRING CAN BE RUN IN THE SAME CONDUIT
- 120VAC IS NOT PERMITTED IN THE SAME CONDUIT WITH LOW VOLTAGE WIRING.
- MAINTAIN 40 PERCENT CONDUIT FILL RATIO AS PER NEC REQUIREMENTS
- DIV 28 CONTRACTOR TO PROVIDE STROBE POWER EXTENDER PANELS AND AMPLIFIERS AS NECESSARY TO SUPPLY POWER TO ALL NOTIFICATION APPLIANCES.
- ALL WIRING, INCLUDING SHIELDS MUST BE DRY AND FREE OF SHORTS AND GROUNDS.
- ONLY SYSTEM WIRING CAN BE RUN IN THE SAME CONDUIT
- 120VAC IS NOT PERMITTED IN THE SAME CONDUIT WITH LOW VOLTAGE WIRING.
- MAINTAIN 40 PERCENT CONDUIT FILL RATIO AS PER NEC REQUIREMENTS
- DIV 28 CONTRACTOR TO PROVIDE STROBE POWER EXTENDER PANELS AND AMPLIFIERS AS NECESSARY TO SUPPLY POWER TO ALL NOTIFICATION APPLIANCES.
- FIRE ALARM CABLE INSTALLED IN UNDERGROUND CONDUIT OR OTHER WET LOCATIONS SHALL BE UL LISTED FOR WET LOCATIONS
- FIRE ALARM CIRCUITS EXTENDING BEYOND ONE BUILDING AND RUN OUTDOOR SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 ARTICLES 760, 770, 725 AND 800 WHERE APPLICABLE.
- EXTEND DEDICATED SLC CIRCUIT AND VOICE CIRCUIT FROM EXISTING FIRE ALARM SYSTEM TO CONSESSION BUILDING. PROVIDE SURGE SUPPRESSOR FOR CONNECTION BETWEEN MAIN BUILDING AND CONSESSIONS. ALL FIRE ALARM CABLE INSTALLED IN UNDERGROUND CONDUIT OR OTHER WET LOCATIONS SHALL BE UL LISTED FOR WET LOCATIONS. FIRE ALARM CIRCUITS EXTENDING FROM MAIN BUILDING TO CONSESSIONS AND RUN OUTDOORS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 ARTICLES 760, 770, 725 AND 800 WHERE APPLICABLE. FIRE ALARM LOW VOLTAGE WIRING SHALL BE RUN IN SEPARATE CONDUIT FROM 120 VAC.
- MONITOR KITCHEN SUPPRESSION SYSTEM FOR ALARM, SUPERVISORY AND TROUBLE CONDITIONS. ACTIVATION OF KITCHEN SUPPRESSION SYSTEM SHALL SEND ALARM SIGNAL TO EXISTING FIRE ALARM PANEL AND ACTIVATE CONCESSION STAND NOTIFICATION APPLIANCES AND SHALL SHUNT CIRCUIT BREAKERS AS NECESSARY. REFER TO DETAIL 716.1 FOR ADDITIONAL INFORMATION.



2 CONCOURSE / LEFT FIELD BUILDING ROOF - POWER - EXISTING CONDITIONS & NEW WORK  
SCALE: 1/8" = 1'-0"



1 CONCOURSE / LEFT FIELD BUILDING 1ST FLOOR - POWER - EXISTING CONDITIONS & NEW WORK  
SCALE: 1/8" = 1'-0"



- DRAWING NOTES:**
- JUNCTION BOX FOR LOCKER LIGHTING FIXTURES - REFER TO POWER DRAWINGS FOR CIRCUITING INFORMATION. COORDINATE FINAL LOCATION WITH LOCKER MANUFACTURER. LOCKER LIGHTING SHALL BE ON LIGHTING CONTROL ZONE 'A'.
  - CUSTOM MILLWORK WITH INTEGRAL LED LIGHTING. REFER TO ARCHITECTURAL DRAWINGS AND DETAILS FOR MORE INFORMATION. MILLWORK LIGHTING SHALL BE TIED INTO LIGHTING CONTROL SYSTEM AND BE ON A SEPARATE LIGHTING CONTROL ZONE. LIGHTING SHALL BE CIRCUITED TO PANEL AP-1-1 CIRCUIT 34.
  - FIXTURE TYPE L4 - FIXTURE SHALL BE MOUNTED ON PLATFORM WITHIN UP TO HIGHLIGHT MANNEQUINS FROM BELOW. REFER TO ARCHITECTURAL DRAWINGS AND DETAILS FOR FURTHER INFORMATION.

- GENERAL NOTES:**
- FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, REFER TO DRAWINGS EG. 1.
  - FOR LUMINAIRE DESCRIPTION, REFER TO LUMINAIRE SCHEDULE ON DRAWING EA-1.2.
  - REFER TO ARCHITECTURAL REFLECTED CEILING PLANS AND SECTIONS FOR EXACT LOCATION OF CEILING MOUNTED LUMINAIRES.
  - NUMERICAL DESIGNATIONS BESIDE A LUMINAIRE INDICATE THE BRANCH CIRCUIT BREAKER NUMBER AT THE PANELBOARD.
  - UNLESS OTHERWISE NOTED, PROVIDE THE FOLLOWING WIRE SIZES BASED ON CIRCUIT LENGTH IN ORDER TO LIMIT VOLTAGE DROP TO LESS THAN 3%:
    - FOR 120V CIRCUITS:
      - A. LESS THAN 90 FEET: 2#12 & #12G, 3/4"
      - B. MORE THAN 90 FEET, BUT LESS THAN 150 FEET: 2#10 & #10G, 3/4"
      - C. MORE THAN 150 FEET: 2#8 & #8G, 3/4"
    - FOR 277V CIRCUITS:
      - A. LESS THAN 180 FEET: 2#12 & #12G, 3/4"
      - B. MORE THAN 180 FEET, BUT LESS THAN 300 FEET: 2#10 & #10G, 3/4"
      - C. MORE THAN 300 FEET: 2#8 & #8G, 3/4"
  - LOCATIONS OF LUMINAIRES IN ELECTRICAL AND MECHANICAL ROOMS SHALL BE COORDINATED WITH THE ROOM EQUIPMENT.
  - UNLESS OTHERWISE NOTED, CONNECT ALL LUMINAIRES TO PANEL DP-2-1 IN ELEC RM 130.
  - FOR LIGHTING CONTROL DIAGRAMS REFER TO EL7 SERIES DRAWINGS.
  - FINAL QUANTITIES AND LOCATIONS OF ALL OCCUPANCY SENSORS SHALL BE PROVIDED BASED ON SUBMITTED LIGHTING CONTROL MANUFACTURER. PRODUCT REQUIREMENTS SHALL BE INCLUDED IN THE SHOP DRAWINGS SUBMITTALS.
  - CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL COMPONENTS INCLUDING SENSORS, MODULES, RELAYS, POWER PACKS, ETC. TO COORDINATE WITH FINAL SELECTED LIGHTING CONTROL SYSTEM AND PROVIDE A FULLY FUNCTIONING SYSTEM. UNLESS OTHERWISE NOTED, CONTRACTOR SHALL PROVIDE A DIMMING MODULE PER FIXTURE TYPE IN EACH SPACE, AND SEPARATE DIMMING MODULES FOR NORMAL POWER FIXTURES AND ONES WITH INTEGRAL BATTERY.
  - PROVIDE ALLOWANCE FOR AN ADDITIONAL 5% QUANTITY OF EXIT SIGNS AND ASSOCIATED BRANCH CIRCUIT WIRING BACK TO PANEL INDICATED FOR THE FLOOR, TO BE LOCATED IN ACCORDANCE WITH AHJ REQUIREMENTS IN THE FIELD.

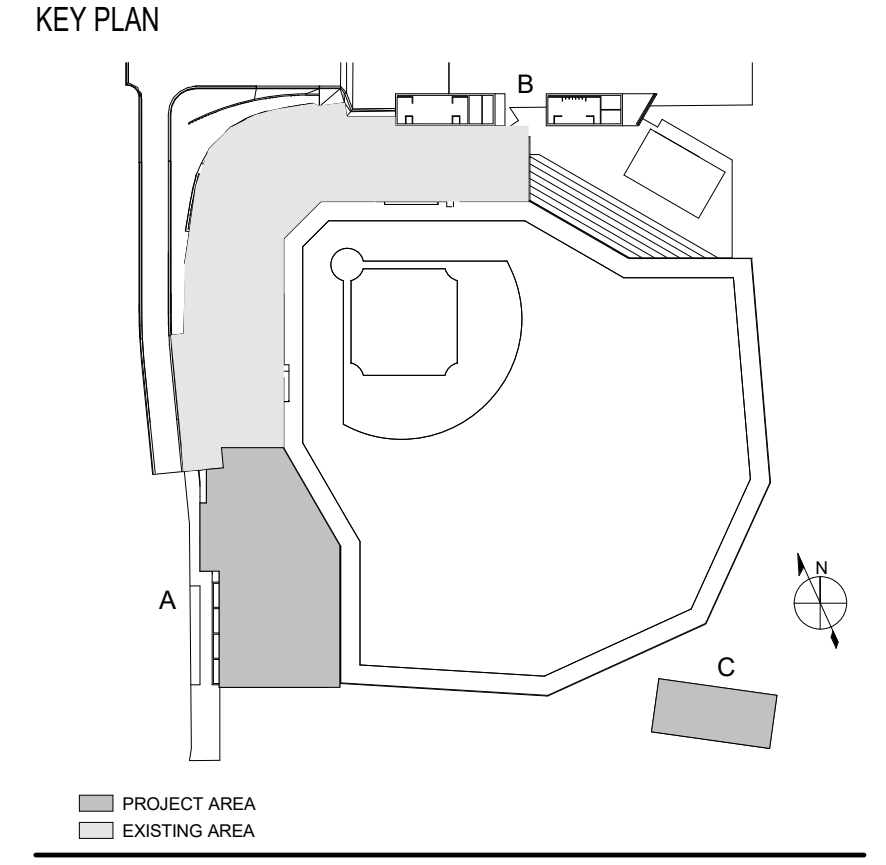
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100 North 6th Street  
Philadelphia, PA 19106-1592  
Tel: 215-923-2020 Fax: 215-574-0952

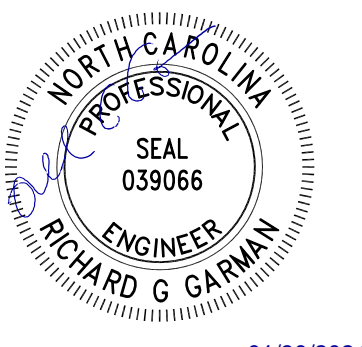
CONSULTANTS



SCO PROJECT NO. 22-24384-01A  
NC STATE PROJ. NO. 202120015



PRINCIPAL  
WILLIAM MCCULLOUGH  
PROJECT MANAGER  
GEORGE BUSHEY  
ELECTRICAL ENGINEER  
RICHARD GARMAN



REVISIONS

NO.	BY	DESCRIPTION	DATE
1	EC	PACKAGE A - LEFT & RIGHT FIELD ADDITIONS	01/29/2024

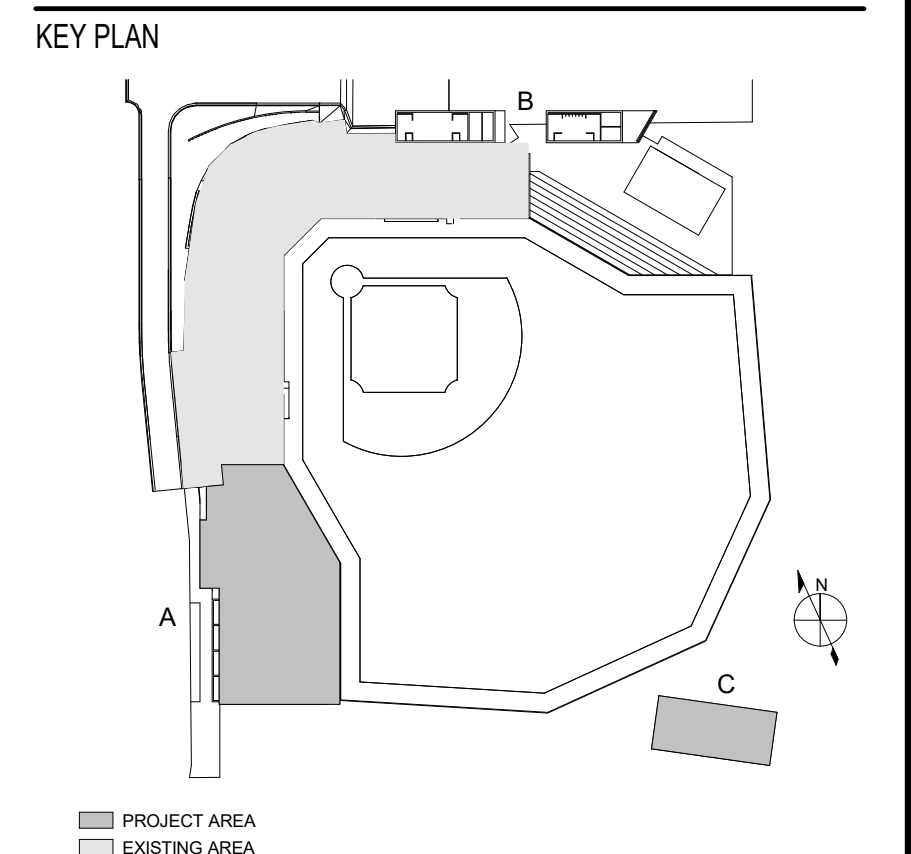
**NC STATE UNIVERSITY**  
1081 Varsity Dr  
Raleigh, NC 27606

DRAWN BY: RM DATE: 01/29/2024  
PROJECT NO. 20220400 SCALE: 1/8" = 1'-0"  
DRAWING NAME: FIRST FLOOR PLAN - TRAINING FACILITY - LIGHTING - EXISTING CONDITIONS & NEW WORK

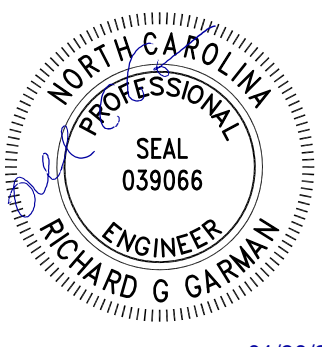
FLOOR/SECTION PHASE: DRAWING NO.:  
**CD EL2.1.1**



SCO PROJECT NO. 22-24384-01A  
NC STATE PROJ. NO. 202120015



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WILLIAM MCCULLOUGH  
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GEORGE BUSHEY  
ELECTRICAL ENGINEER  
RICHARD GARMAN



REVISIONS		
NO.	DESCRIPTION	DATE
EC	PACKAGE A - LEFT & RIGHT FIELD ADDITIONS	01/29/2024

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1081 Varsity Dr  
Raleigh, NC 27606

DRAWN BY RM DATE 01/29/2024

PROJECT NO. 20220400 SCALE 1/8" = 1'-0"

DRAWING NAME  
SECOND FLOOR PLAN - TRAINING FACILITY - LIGHTING - EXISTING CONDITIONS & NEW WORK

FLOOR/SECTION PHASE DRAWING NO.

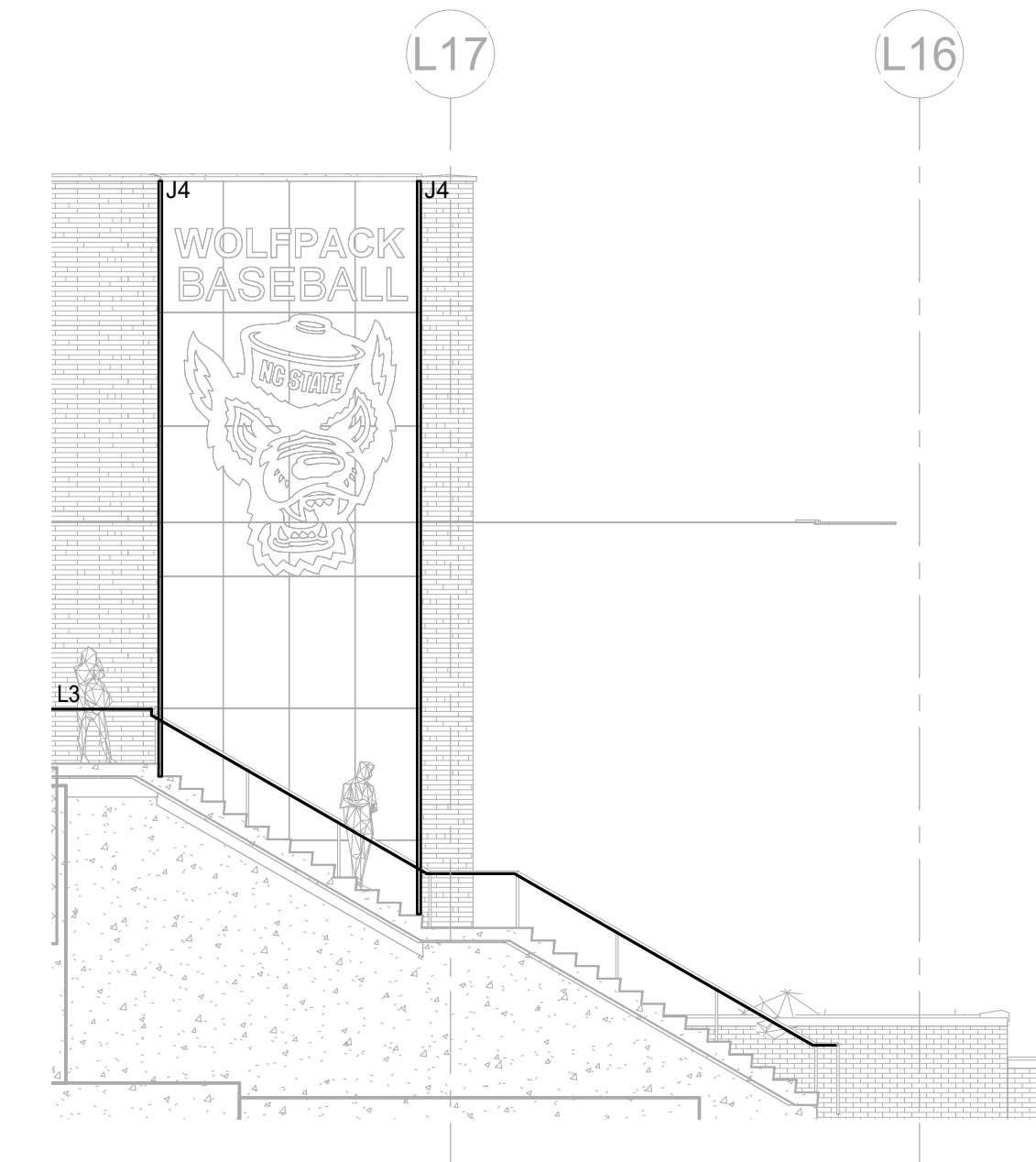
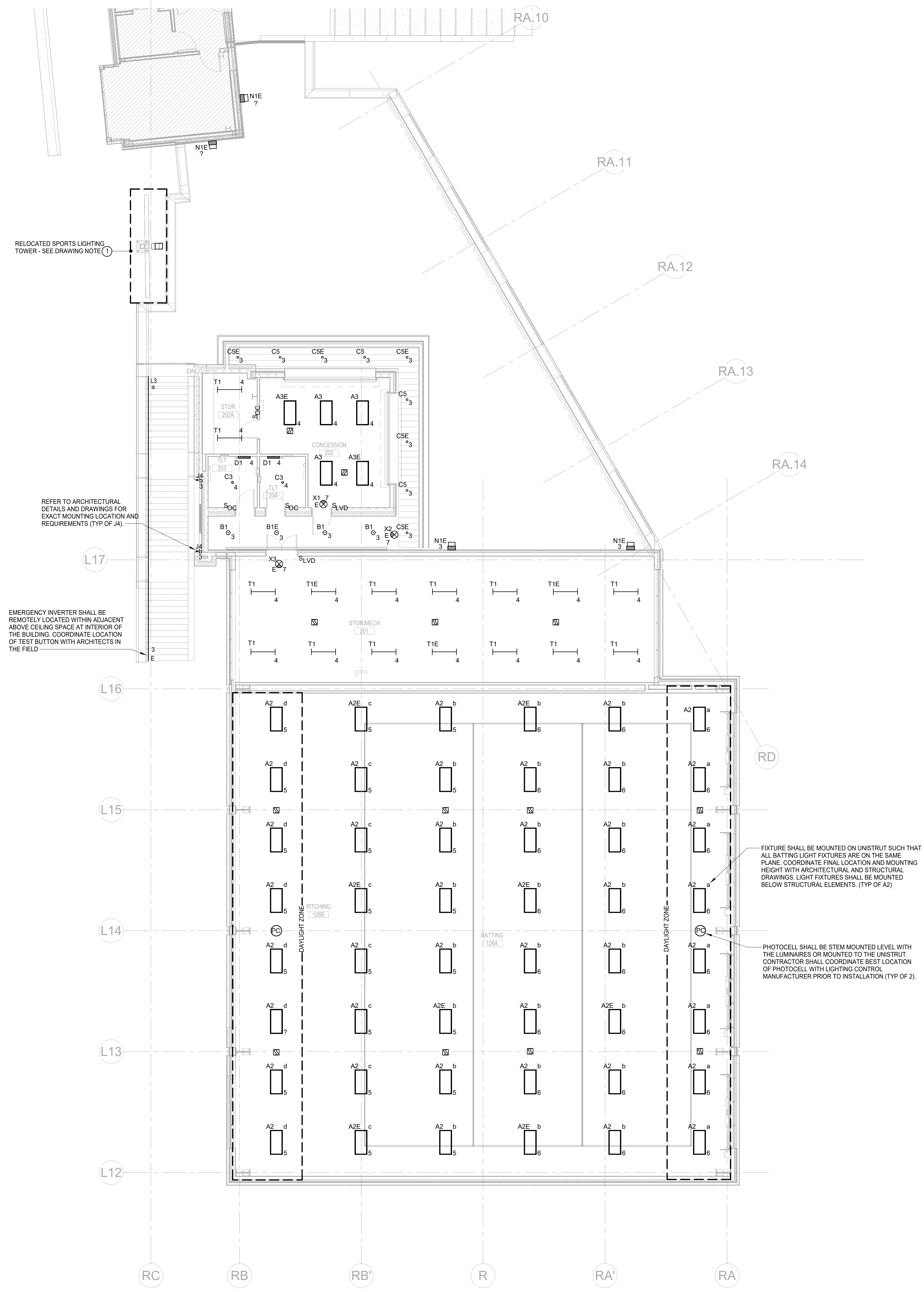
**CD EL2.1.2**

**DRAWING NOTES:**

- SPORTS LIGHTING SHALL BE COORDINATED WITH SPORTS LIGHTING MANUFACTURER FOR PROGRAMMING OF EMERGENCY LIGHTING. SPORTS LIGHTING SHALL BE CONSIDERED AS EMERGENCY LIGHTING FOR GENERAL CIRCULATION WITHIN THE SECOND FLOOR EXTERIOR PLAZA AREA.
- NEW FIXTURE SHALL BE POWERED FROM EXISTING ADJACENT CIRCUIT 5 OF PANEL L14. EXTEND 2#12 & #10G AS NECESSARY FROM CLOSEST SPLICE BOX TO NEW FIXTURE LOCATION. CONDUIT ROUTING SHALL BE CONCEALED TO GREATEST EXTENT POSSIBLE INSIDE BUILDING AND PENETRATE THROUGH EXTERIOR WALL AT FIXTURE LOCATION.

**GENERAL NOTES:**

- FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, REFER TO DRAWINGS EG.1.
- FOR LUMINAIRE DESCRIPTION, REFER TO LUMINAIRE SCHEDULE ON DRAWING E4.1.2.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS AND SECTIONS FOR EXACT LOCATION OF CEILING MOUNTED LUMINAIRES.
- NUMERICAL DESIGNATIONS BESIDE A LUMINAIRE INDICATE THE BRANCH CIRCUIT BREAKER NUMBER AT THE PANELBOARD.
- UNLESS OTHERWISE NOTED, PROVIDE THE FOLLOWING WIRE SIZES BASED ON CIRCUIT LENGTH IN ORDER TO LIMIT VOLTAGE DROP TO LESS THAN 3%:  
FOR 120V CIRCUITS:  
A. LESS THAN 90 FEET: 2#12 & #12G, 3/4"C.  
B. MORE THAN 90 FEET, BUT LESS THAN 150 FEET: 2#10 & #10G, 3/4"C.  
C. MORE THAN 150 FEET: 2#8 & #8G, 3/4"C.  
FOR 277V CIRCUITS:  
A. LESS THAN 180 FEET: 2#12 & #12G, 3/4"C.  
B. MORE THAN 180 FEET, BUT LESS THAN 300 FEET: 2#10 & #10G, 3/4"C.  
C. MORE THAN 300 FEET: 2#8 & #8G, 3/4"C.
- LOCATIONS OF LUMINAIRES IN ELECTRICAL AND MECHANICAL ROOMS SHALL BE COORDINATED WITH THE ROOM EQUIPMENT.
- UNLESS OTHERWISE NOTED CONNECT ALL LUMINAIRES TO PANEL LP-1-1 IN ELEC ELEC 127A.
- FOR LIGHTING CONTROL DIAGRAMS REFER TO EL7 SERIES DRAWINGS.
- FINAL QUANTITIES AND LOCATIONS OF ALL OCCUPANCY SENSORS SHALL BE PROVIDED BASED ON SUBMITTED LIGHTING CONTROL MANUFACTURER. PRODUCT REQUIREMENTS SHALL BE INCLUDED IN THE SHOP DRAWINGS SUBMITTALS.
- CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL COMPONENTS INCLUDING SENSORS, MODULES, RELAYS, POWER PACKS, ETC. TO COORDINATE WITH FINAL SELECTED LIGHTING CONTROL SYSTEM AND PROVIDE A FULLY FUNCTIONING SYSTEM. UNLESS OTHERWISE NOTED, CONTRACTOR SHALL PROVIDE A DIMMING MODULE PER FIXTURE TYPE IN EACH SPACE, AND SEPARATE DIMMING MODULES FOR NORMAL POWER FIXTURES AND ONES WITH INTEGRAL BATTERY.
- PROVIDE ALLOWANCE FOR AN ADDITIONAL 5% QUANTITY OF EXIT SIGNS AND ASSOCIATED BRANCH CIRCUIT WIRING BACK TO PANEL INDICATED FOR THE FLOOR, TO BE LOCATED IN ACCORDANCE WITH AHJ REQUIREMENTS IN THE FIELD.



1 SECOND FLOOR PLAN - TRAINING FACILITY - LIGHTING - EXISTING CONDITIONS & NEW WORK  
SCALE: 1/8" = 1'-0"

2 MAIN ENTRANCE - LIGHTING  
SCALE: 1/8" = 1'-0"

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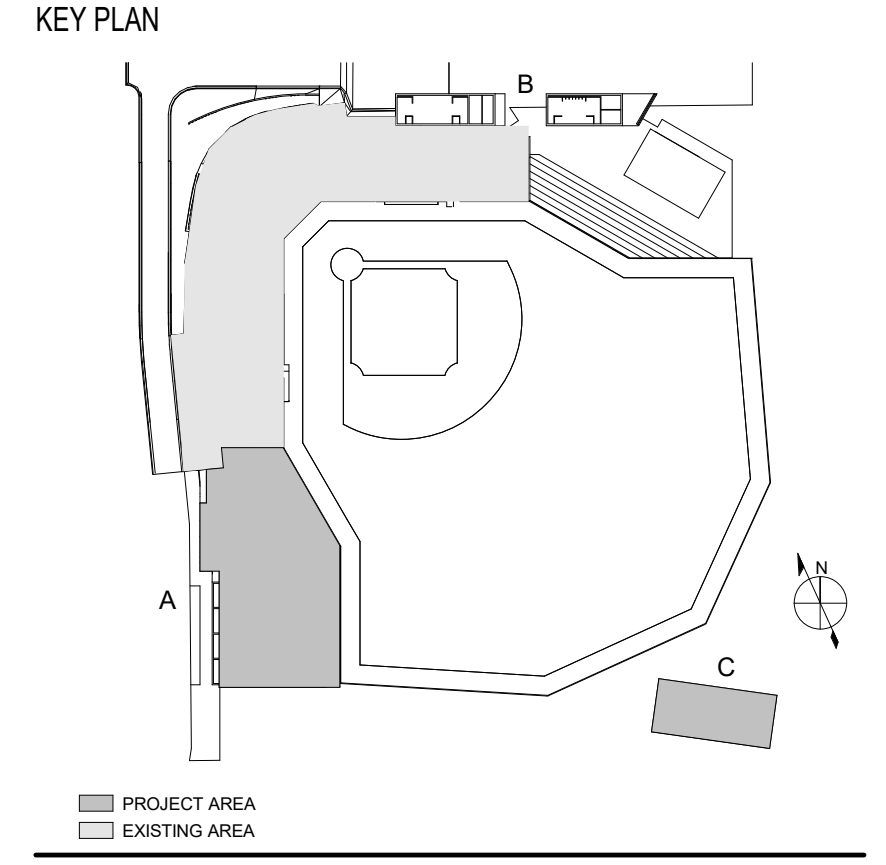


- GENERAL NOTES**
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  - FOR LUMINAIRE DESCRIPTION, REFER TO LUMINAIRE SCHEDULE ON DRAWING E4.1.2.
  - REFER TO ARCHITECTURAL REFLECTED CEILING PLANS AND SECTIONS FOR EXACT LOCATION OF CEILING MOUNTED LUMINAIRES.
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  - UNLESS OTHERWISE NOTED, PROVIDE THE FOLLOWING WIRE SIZES BASED ON CIRCUIT LENGTH IN ORDER TO LIMIT VOLTAGE DROP TO LESS THAN 3%.
    - FOR 120V CIRCUITS:
      - A. LESS THAN 90 FEET: 2#12 & #12G, 34°C.
      - B. MORE THAN 90 FEET, BUT LESS THAN 150 FEET: 2#10 & #10G, 34°C.
      - C. MORE THAN 150 FEET: 2#8 & #8G, 34°C.
    - FOR 277V CIRCUITS:
      - A. LESS THAN 180 FEET: 2#12 & #12G, 34°C.
      - B. MORE THAN 180 FEET, BUT LESS THAN 300 FEET: 2#10 & #10G, 34°C.
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  - LOCATIONS OF LUMINAIRES IN ELECTRICAL AND MECHANICAL ROOMS SHALL BE COORDINATED WITH THE ROOM EQUIPMENT.
  - UNLESS OTHERWISE NOTED CONNECT ALL LUMINAIRES TO PANEL DP-2-1 IN ELEC RM 130.
  - FOR LIGHTING CONTROL DIAGRAMS REFER TO EL7 SERIES DRAWINGS.
  - FINAL QUANTITIES AND LOCATIONS OF ALL OCCUPANCY SENSORS SHALL BE PROVIDED BASED ON SUBMITTED LIGHTING CONTROL MANUFACTURER. PRODUCT REQUIREMENTS SHALL BE INCLUDED IN THE SHOP DRAWINGS SUBMITTALS.
  - CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL COMPONENTS INCLUDING SENSORS, MODULES, RELAYS, POWER PACKS, ETC. TO COORDINATE WITH FINAL SELECTED LIGHTING CONTROL SYSTEM AND PROVIDE A FULLY FUNCTIONING SYSTEM. UNLESS OTHERWISE NOTED, CONTRACTOR SHALL PROVIDE A DIMMING MODULE PER FIXTURE TYPE, IN EACH SPACE, AND SEPARATE DIMMING MODULES FOR NORMAL POWER FIXTURES AND ONES WITH INTEGRAL BATTERY.
  - PROVIDE ALLOWANCE FOR AN ADDITIONAL 5% QUANTITY OF EXIT SIGNS AND ASSOCIATED BRANCH CIRCUIT WIRING BACK TO PANEL INDICATED FOR THE FLOOR, TO BE LOCATED IN ACCORDANCE WITH AHJ REQUIREMENTS IN THE FIELD.



1 SECOND FLOOR PLAN - CONCOURSE / LEFT FIELD - LIGHTING - EXISTING CONDITIONS & NEW WORK  
SCALE: 1/8" = 1'-0"

SCO PROJECT NO. 22-24384-01A  
NC STATE PROJ. NO. 202120015



PRINCIPAL  
WILLIAM MCCULLOUGH  
PROJECT MANAGER  
GEORGE BUSHEY  
ELECTRICAL ENGINEER  
RICHARD GARMAN

REVISIONS

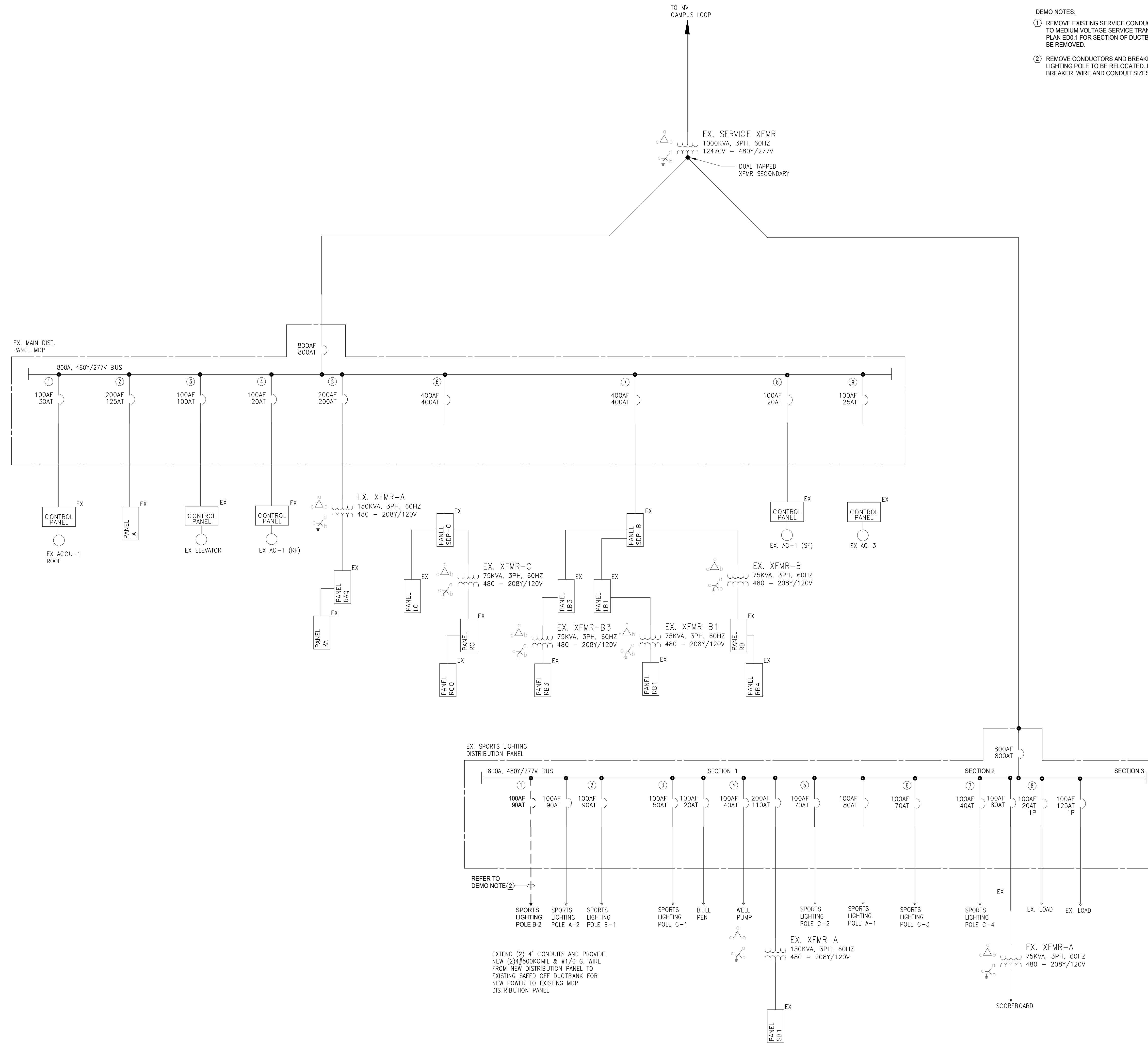
NO.	BY	DESCRIPTION	DATE
EC		PACKAGE A - LEFT & RIGHT FIELD ADDITIONS	01/29/2024

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1081 Varsity Dr  
Raleigh, NC 27606

DRAWN BY \_\_\_\_\_ RM \_\_\_\_\_ DATE 01/29/2024  
PROJECT NO. 20220400 SCALE 1/8" = 1'-0"  
DRAWING NAME  
SECOND FLOOR PLAN - CONCOURSE / LEFT FIELD - LIGHTING - EXISTING CONDITIONS & NEW WORK  
FLOOR/SECTION PHASE DRAWING NO.  
**CD EL2.2.1**

**SINGLE LINE DIAGRAM**

	KILOWATT/DEMAND METER (FURNISHED BY UTILITY COMPANY)
	POWER MONITORING/METERING SYSTEM
	AMMETER WITH AMMETER SWITCH
	VOLTMETER WITH VOLTMETER SWITCH
(3)	DEVICE QUANTITY (NUMBER DENOTES QUANTITY)
	KILOWATT/DEMAND METER (FURNISHED IN THIS CONTRACT)
	KILOWATT/DEMAND METER (FURNISHED IN THIS CONTRACT)
	(PT) POTENTIAL TRANSFORMER
	(CT) CURRENT TRANSFORMER
	RELAY (NUMBER INDICATED RELAY TYPE)
	GROUND FAULT SENSING COIL
	GROUND FAULT TRIPPING MECHANISM
	SHUNT TRIP
	CONTROL WIRING
	KEY INTERLOCK
	ELECTRIC INTERLOCK
	MECHANICAL INTERLOCK
	SURGE ARRESTER
	CAPACITOR
	CONTACTOR
	MEDIUM VOLTAGE DRAWOUT CIRCUIT BREAKER
	DRAWOUT DEVICE
	NETWORK PROTECTOR
	CIRCUIT BREAKER OR MOTOR CIRCUIT PROTECTOR
	DISCONNECT SWITCH
	FUSE
	FUSED CUTOFF OR LOADBREAK FUSE SWITCH
	POWER OR DISTRIBUTION TRANSFORMER
	ISOLATION TRANSFORMER
	DELTA CONNECTION
	WYE CONNECTION
	EMERGENCY GENERATOR
	MOTOR BY DIV. 23 (NUMBER DENOTES HP)
	MOTOR WITH SWITCH BY DIV. 23 (NUMBER DENOTES HP)
	SURGE PROTECTOR
	RESISTIVE LOAD
	SINGLE SECTION PANELBOARD (ADDITIONAL SECTIONS SHOWN, IF REQUIRED)
	MINI LOAD CENTER WITH INTEGRAL TRANSFORMER AND PANELBOARD
	CONTROL PANEL WITH INTEGRAL DISCONNECT BY DIV. 23
	CONTROL PANEL
	FEEDER CONTINUATION DESIGNATION
	WIRE SIZE TAG
	SELECTOR SWITCH
	DRAWOUT AUTOMATIC TRANSFER SWITCH WITH BYPASS ISOLATION
	AUTOMATIC TRANSFER SWITCH (ATS) OR MANUAL TRANSFER SWITCH (MTS)
	VARIABLE FREQUENCY DRIVE
	VARIABLE FREQUENCY DRIVE WITH HARMONIC PASSIVE FILTER (HPF)
	MAGNETIC MOTOR STARTER
	ENCLOSED MAGNETIC MOTOR STARTER
	ENCLOSED COMBINATION MOTOR STARTER WITH DISCONNECT SWITCH
	ENCLOSED COMBINATION MAGNETIC MOTOR STARTER WITH DISCONNECT SWITCH
	COMBINATION MOTOR STARTER WITH FUSED DISCONNECT SWITCH
	ENCLOSED COMBINATION MOTOR STARTER WITH FUSED DISCONNECT SWITCH
	COMBINATION MOTOR STARTER WITH CIRCUIT BREAKER OR MOTOR CIRCUIT PROTECTOR
	ENCLOSED COMBINATION MOTOR STARTER WITH CIRCUIT BREAKER OR MOTOR CIRCUIT PROTECTOR
	MULTIPLE MOTOR STARTER PANEL WITH DISCONNECT SWITCH
	STARTER



- GENERAL NOTES:**
- FOR SYMBOLS AND ABBREVIATIONS, REFER TO DRAWINGS EG.1.
  - FOR ACTUAL PHYSICAL LOCATIONS OF EQUIPMENT SHOWN ON SINGLE LINE DIAGRAMS, REFER TO FLOOR PLANS AND DETAIL DRAWINGS AS LISTED ON DRAWING SCHEDULE.
  - UNLESS OTHERWISE NOTED, ALL ELECTRICAL EQUIPMENT AND WIRING SHOWN IN A DARK, SOLID LINE IS NEW WORK UNDER THIS PROJECT.
  - UNLESS OTHERWISE NOTED, ALL ELECTRICAL EQUIPMENT AND WIRING SHOWN IN A LIGHT, SOLID LINE IS EXISTING WORK UNDER THIS PROJECT.
  - UNLESS OTHERWISE NOTED, ALL CIRCUIT BREAKERS, MOTOR CIRCUIT PROTECTORS (MCP) AND/OR SWITCHES ARE THREE (3) POLE.
  - JUNCTION AND PULL BOXES ARE NOT NECESSARILY SHOWN ON THIS DRAWING AND SHALL BE PROVIDED WHERE NECESSARY AND SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND INSTALLED WHERE REQUIRED.
- DEMO NOTES:**
- REMOVE EXISTING SERVICE CONDUCTORS AND DUCTBANK BACK TO MEDIUM VOLTAGE SERVICE TRANSFORMER. REFER TO SITE PLAN ED.1 FOR SECTION OF DUCTBANK AND CONDUCTORS TO BE REMOVED.
  - REMOVE CONDUCTORS AND BREAKER FEEDING SPORTS LIGHTING POLE TO BE RELOCATED. REFER TO E3.1.1 FOR NEW BREAKER, WIRE AND CONDUIT SIZES.

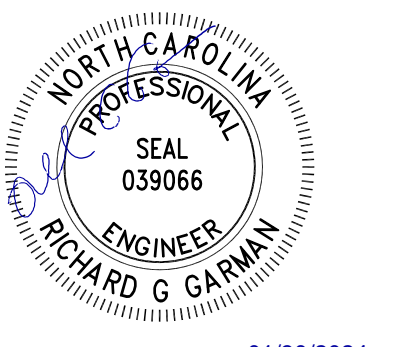
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 100 North 6th Street  
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CONSULTANTS



SCO PROJECT NO. 22-24384-01A  
 NC STATE PROJ. NO. 202120015  
 KEY PLAN

PRINCIPAL  
 WILLIAM MCCULLOUGH  
 PROJECT MANAGER  
 GEORGE BUSHEY  
 ELECTRICAL ENGINEER  
 RICHARD GARMAN



REVISIONS

NO.	BY	DESCRIPTION	DATE
1	RM	PACKAGE A - LEFT & RIGHT FIELD ADDITIONS	01/29/2024

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 Raleigh, NC 27606

DRAWN BY: RM DATE: 01/29/2024  
 PROJECT NO.: 20220400 SCALE: NONE  
 DRAWING NAME: SINGLE LINE DIAGRAM - NORMAL POWER - DEMOLITION AND EXISTING CONDITIONS  
 FLOOR/SECTION: PHASE DATE: DRAWING NO.:  
**CD ED3.1.1**

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SCO PROJECT NO. 22-24384-01A  
NC STATE PROJ. NO. 202120015  
KEY PLAN

PRINCIPAL  
WILLIAM MCCULLOUGH  
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GEORGE BUSHEY  
ELECTRICAL ENGINEER  
RICHARD GARMAN



01/30/2024

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1081 Varsity Dr  
Raleigh, NC 27606

DRAWN BY RM DATE 01/29/2024

PROJECT NO. 20220400 SCALE NONE

DRAWING NAME

SINGLE LINE DIAGRAM - EXISTING CONDITIONS AND NEW WORK

FLOOR/SECTION PHASE DRAWING NO.

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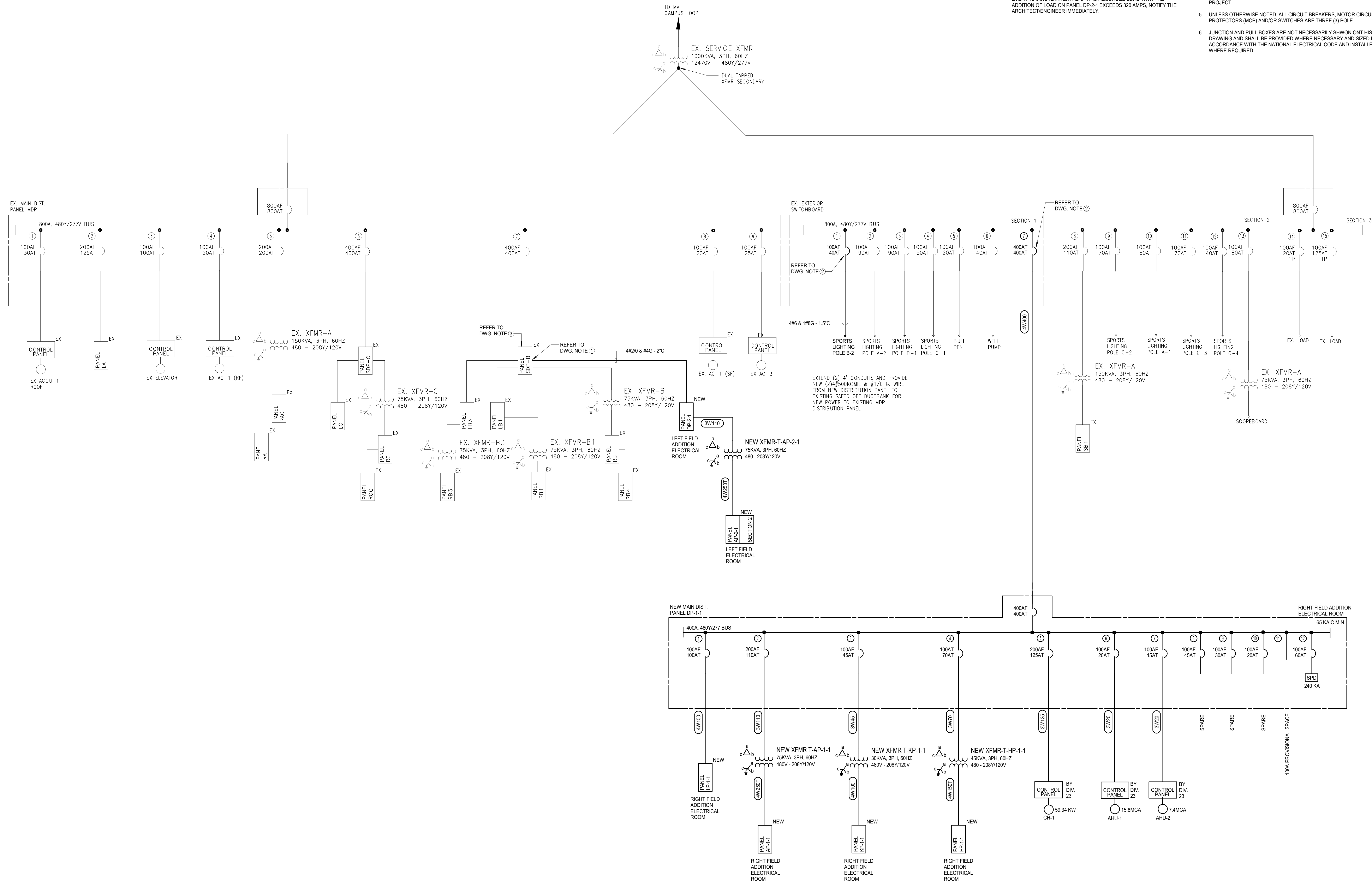
E3.1.1

**DRAWING NOTES:**

- PROVIDE NEW 200 AMP 3 POLE CIRCUIT BREAKER TO FEED DP-2.1. CIRCUIT BREAKER SHALL MATCH EXISTING BREAKERS MANUFACTURER, TYPE AND KAIC VALUE.
- PROVIDE A NEW 3 POLE CIRCUIT BREAKER. CIRCUIT BREAKER SHALL MATCH EXISTING BREAKERS MANUFACTURER, TYPE AND KAIC VALUE.
- PANEL SDP-B'S EXISTING LOAD COULD NOT BE DETERMINED FROM EXISTING DOCUMENTATION. PANEL SHALL BE MEASURED USING AN AMMETER OR POWER METER OVER A 30-DAY PERIOD, DOCUMENTING THE HIGHEST AVERAGE KILOWATTS REACHED AND MAINTAINED EVERY 15 MINUTE INTERVAL. IF THIS RECORDED LOAD WITH THE ADDITION OF LOAD ON PANEL DP-2.1 EXCEEDS 300 AMPS, NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY.

**GENERAL NOTES:**

- FOR SYMBOLS AND ABBREVIATIONS, REFER TO DRAWINGS EG.1 & ED3.1.1.
- FOR ACTUAL PHYSICAL LOCATIONS OF EQUIPMENT SHOWN ON SINGLE LINE DIAGRAMS, REFER TO FLOOR PLANS AND DETAIL DRAWINGS AS LISTED ON DRAWING SCHEDULE.
- UNLESS OTHERWISE NOTED, ALL ELECTRICAL EQUIPMENT AND WIRING SHOWN IN A DARK, SOLID LINE IS NEW WORK UNDER THIS PROJECT.
- UNLESS OTHERWISE NOTED, ALL ELECTRICAL EQUIPMENT AND WIRING SHOWN IN A LIGHT, SOLID LINE IS EXISTING WORK UNDER THIS PROJECT.
- UNLESS OTHERWISE NOTED, ALL CIRCUIT BREAKERS, MOTOR CIRCUIT PROTECTORS (MCP) AND/OR SWITCHES ARE THREE (3) POLE.
- JUNCTION AND PULL BOXES ARE NOT NECESSARILY SHOWN ON THIS DRAWING AND SHALL BE PROVIDED WHERE NECESSARY AND SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND INSTALLED WHERE REQUIRED.

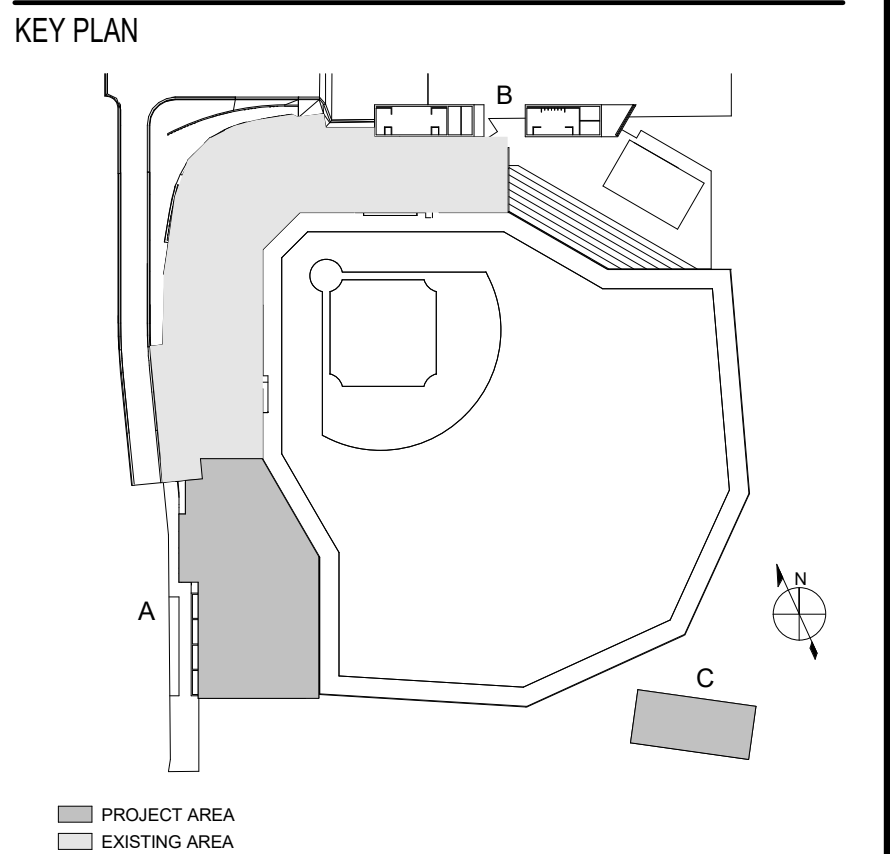




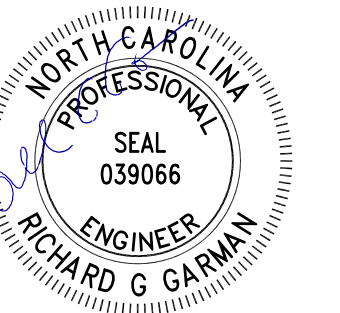




SCO PROJECT NO. 22-24384-01A  
NC STATE PROJ. NO. 202120015



PRINCIPAL  
WILLIAM MCCULLOUGH  
PROJECT MANAGER  
GEORGE BUSHEY  
ELECTRICAL ENGINEER  
RICHARD GARMAN



REVISIONS		
NO.	DESCRIPTION	DATE
EC	PACKAGE A - LEFT & RIGHT FIELD ADDITIONS	01/29/2024

**NC STATE UNIVERSITY**

**DOAK FIELD ENHANCEMENT**  
1081 Varsity Dr  
Raleigh, NC 27606

DRAWN BY RM DATE 01/29/2024

PROJECT NO. 20220400 SCALE As indicated  
DRAWING NAME

ENLARGED PLANS - POWER

FLOOR/SECTION PHASE DRAWING NO.

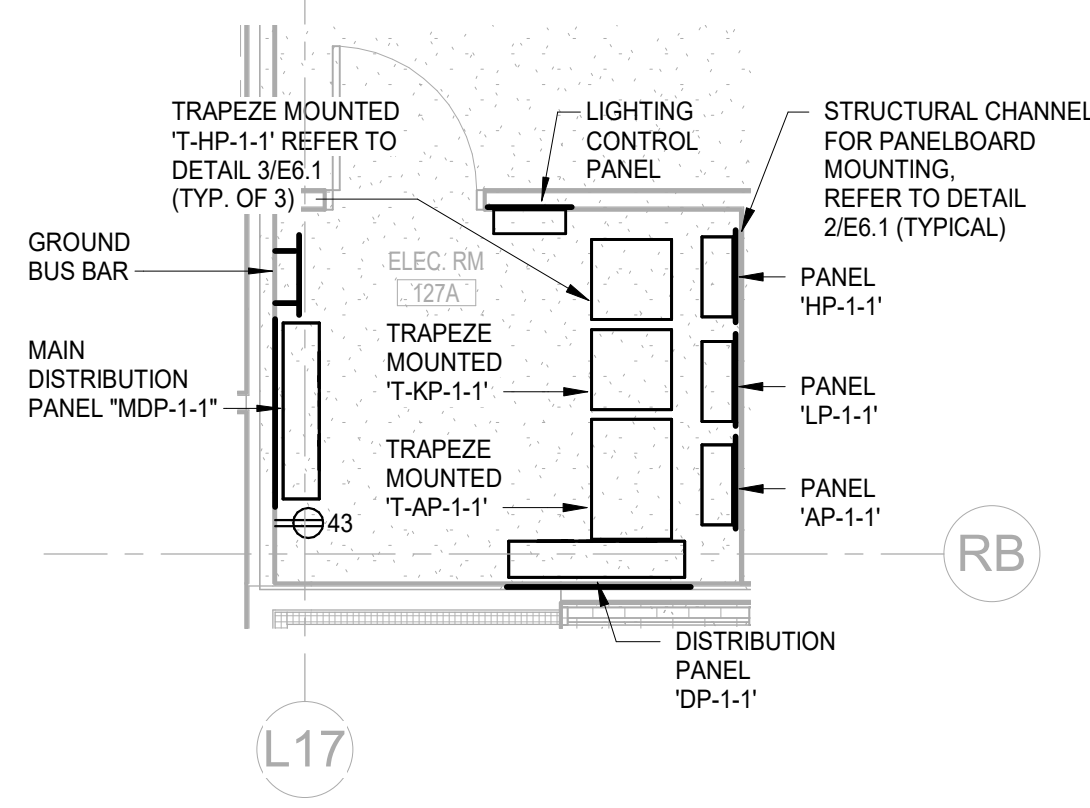
CD EP5.1

**DRAWING NOTES:**

- RECEPTACLES TO BE MOUNTED ON LADDER RACK, COORDINATE EXACT LOCATION WITH INSTALLER.
- EXACT RECEPTACLE LOCATION AND REQUIREMENTS FOR SERVER ROOM EQUIPMENT SHALL BE COORDINATED WITH OWNER.
- RECEPTACLE LOCATION TO BE LOCATED ABOVE COUNTER, COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS.
- EXHAUST FAN CONTROL POWER TO PRIMARY CONTROL PANEL, CONTRACTOR TO COORDINATE LOCATIONS AND ALL OTHER ELECTRICAL CONNECTIONS TO ACCESSORY ITEMS WITH MANUFACTURER TO PROVIDE A FULLY FUNCTIONAL EXHAUST HOOD SYSTEM.
- EXHAUST FAN HVAC POWER TO PRIMARY CONTROL PANEL, CONTRACTOR TO COORDINATE LOCATIONS AND ADDITIONAL CONNECTIONS/REQUIREMENTS TO HVAC EQUIPMENT WITH MANUFACTURER TO PROVIDE A FULLY FUNCTIONAL EXHAUST HOOD SYSTEM.

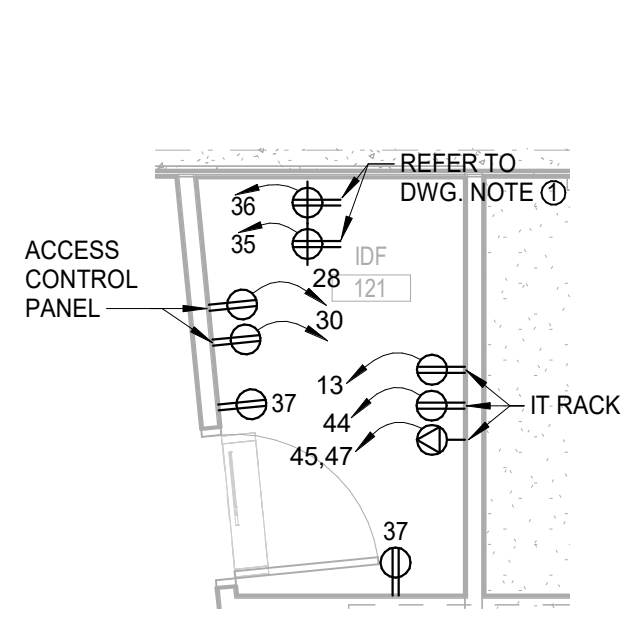
**GENERAL NOTES:**

- FOR ELECTRICAL SYMBOLS, MOUNTING HEIGHTS AND ABBREVIATIONS, REFER TO DRAWINGS EG.1.
- REFER TO MECHANICAL DRAWINGS FOR LOCATIONS AND QUANTITIES OF DUCT MOUNTED SMOKE DETECTORS.
- REFER TO FIRE PROTECTION OR PLUMBING DRAWINGS FOR LOCATIONS AND QUANTITIES OF MONITORED FIRE PROTECTION SYSTEM VALVES, WATER FLOW SWITCHES AND ELECTRIC BELLS.
- UNLESS OTHERWISE NOTED, ALL BRANCH CIRCUIT BREAKER SHALL BE 20 AMPERE, 120 VOLT, 1 POLE.
- UNLESS OTHERWISE NOTED, PROVIDE THE FOLLOWING WIRE SIZES BASED ON CIRCUIT LENGTH IN ORDER TO LIMIT VOLTAGE DROP TO LESS THAN 3%:  
FOR 120V:  
A. LESS THAN 90 FEET: 2#12 & #12G, 3/4"C.  
B. MORE THAN 90 FEET, BUT LESS THAN 150 FEET: 2#10 & #10G, 3/4"C.  
C. MORE THAN 150 FEET: 2#8 & #8G, 3/4"C.  
FOR 277V:  
A. LESS THAN 180 FEET: 2#12 & #12G, 3/4"C.  
B. MORE THAN 180 FEET, BUT LESS THAN 300 FEET: 2#10 & #10G, 3/4"C.  
C. MORE THAN 300 FEET: 2#8 & #8G, 3/4"C.
- REFER TO MECHANICAL DRAWINGS FOR LOCATIONS AND QUANTITIES OF AIR VOLUME CONTROL BOXES, FAN COIL UNITS, UNIT HEATERS, ETC. AND SPECIFICATIONS FOR CIRCUITING REQUIREMENTS. VAV BOXES WITH FANS AND ELECTRIC HEAT SHALL BE CIRCUITED AS INDICATED IN PLANS.
- RECEPTACLES FEEDING DEDICATED EQUIPMENT ARE DESIGNATED WITH A HOME RUN AND SHALL BE CONNECTED ONE PER CIRCUIT, WITH CIRCUIT BREAKER SIZE AS INDICATED.
- COORDINATE EXACT LOCATION OF FOOD SERVICE RECEPTACLES WITH THE FOOD SERVICE AND ARCHITECTURAL DRAWINGS.



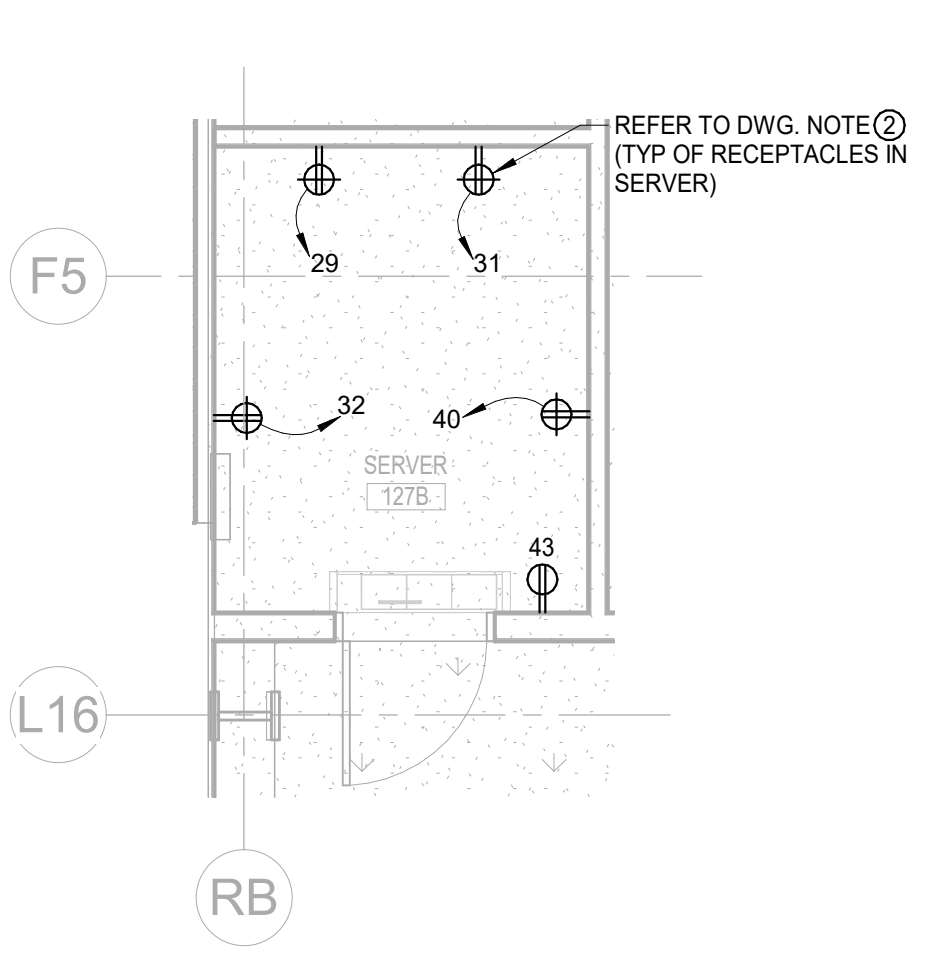
1 ENLARGED PLAN - TRAINING FACILITY - POWER - EXISTING CONDITIONS AND NEW WORK  
SCALE: 1/4" = 1'-0"

**NOTES:**  
1. UNLESS OTHERWISE NOTED, ALL CIRCUITS SHALL BE FROM PANEL AP-1-1.



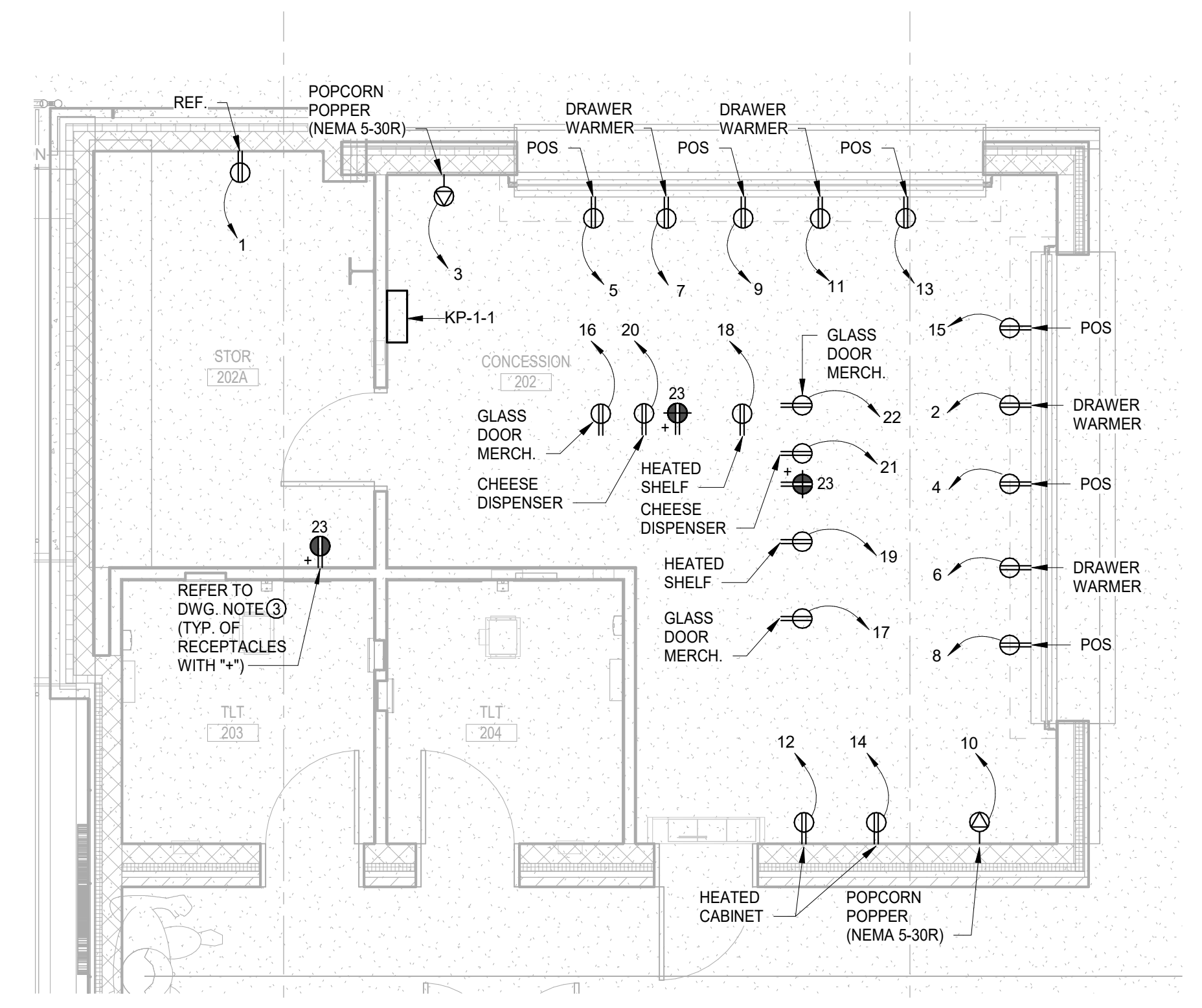
2 ENLARGED PLAN - IDF ROOM 121  
SCALE: 1/4" = 1'-0"

**NOTES:**  
1. UNLESS OTHERWISE NOTED, ALL CIRCUITS SHALL BE FROM PANEL AP-1-1.



3 ENLARGED PLAN - SERVER ROOM 121B  
SCALE: 1/4" = 1'-0"

**NOTES:**  
1. UNLESS OTHERWISE NOTED, ALL CIRCUITS SHALL BE FROM PANEL AP-1-1.



4 ENLARGED FOOD SERVICE POWER PLAN - RIGHT FIELD CONCESSIONS 202  
SCALE: 1/4" = 1'-0"

**NOTES:**  
1. UNLESS OTHERWISE NOTED, ALL CIRCUITS SHALL BE FROM PANEL KP-1-1.



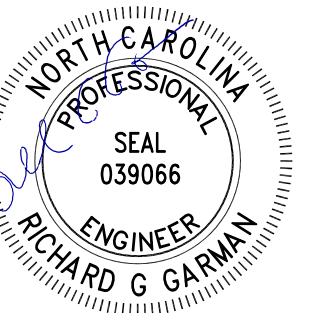
5 ENLARGED FOOD SERVICE POWER PLAN - LEFT FIELD CONCESSION 119 AND 132  
SCALE: 1/4" = 1'-0"

**NOTES:**  
1. UNLESS OTHERWISE NOTED, ALL CIRCUITS SHALL BE FROM PANEL AP-2-1.



SCO PROJECT NO. 22-24384-01A  
NC STATE PROJ. NO. 202120015  
KEY PLAN

PRINCIPAL  
WILLIAM MCCULLOUGH  
PROJECT MANAGER  
GEORGE BUSHEY  
ELECTRICAL ENGINEER  
RICHARD GARMAN



01/30/2024

NO.	BY	DESCRIPTION	DATE

**NC STATE UNIVERSITY**

**DOAK FIELD ENHANCEMENT**  
1081 Varsity Dr  
Raleigh, NC 27606

DRAWN BY: RM DATE: 01/29/2024

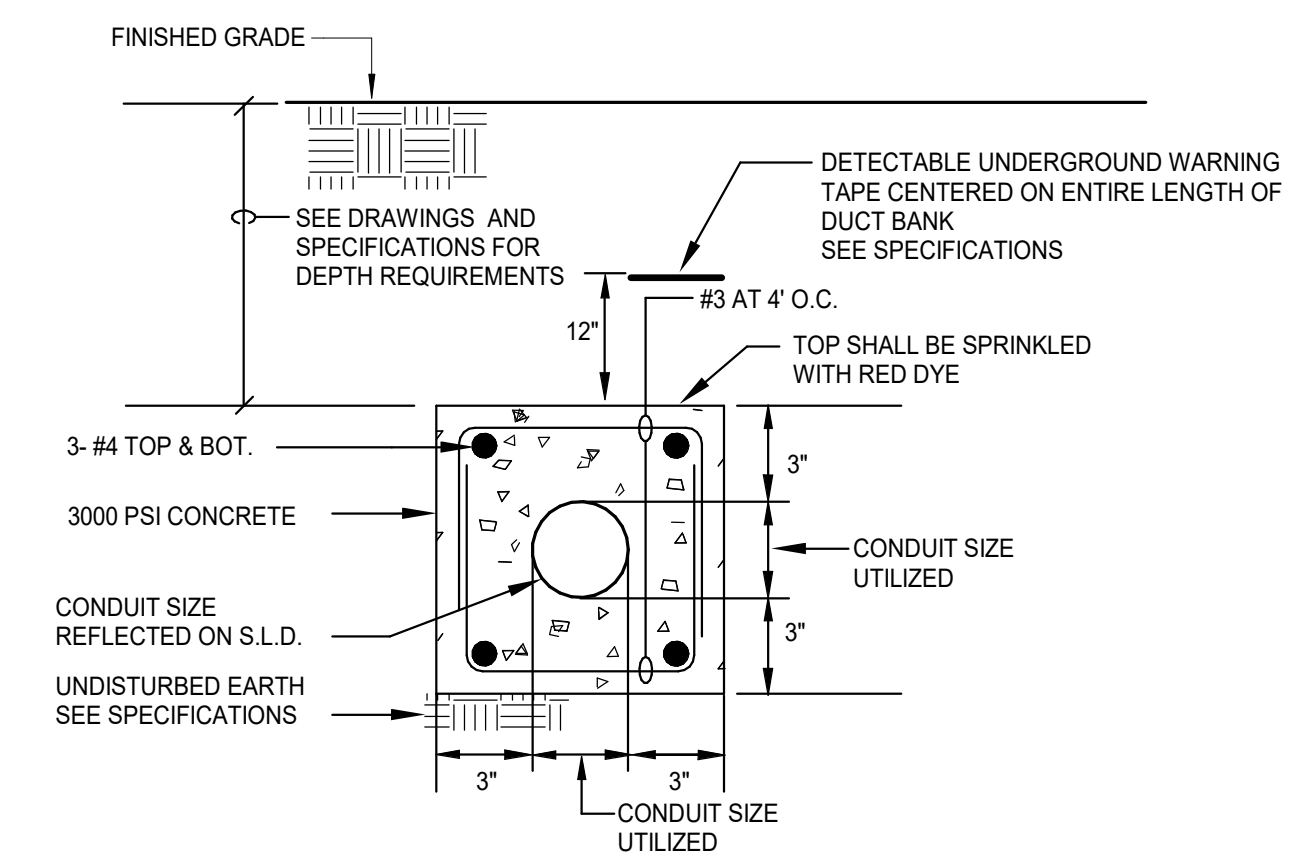
PROJECT NO. 20220400 SCALE  
DRAWING NAME

ELECTRICAL STANDARD DETAILS

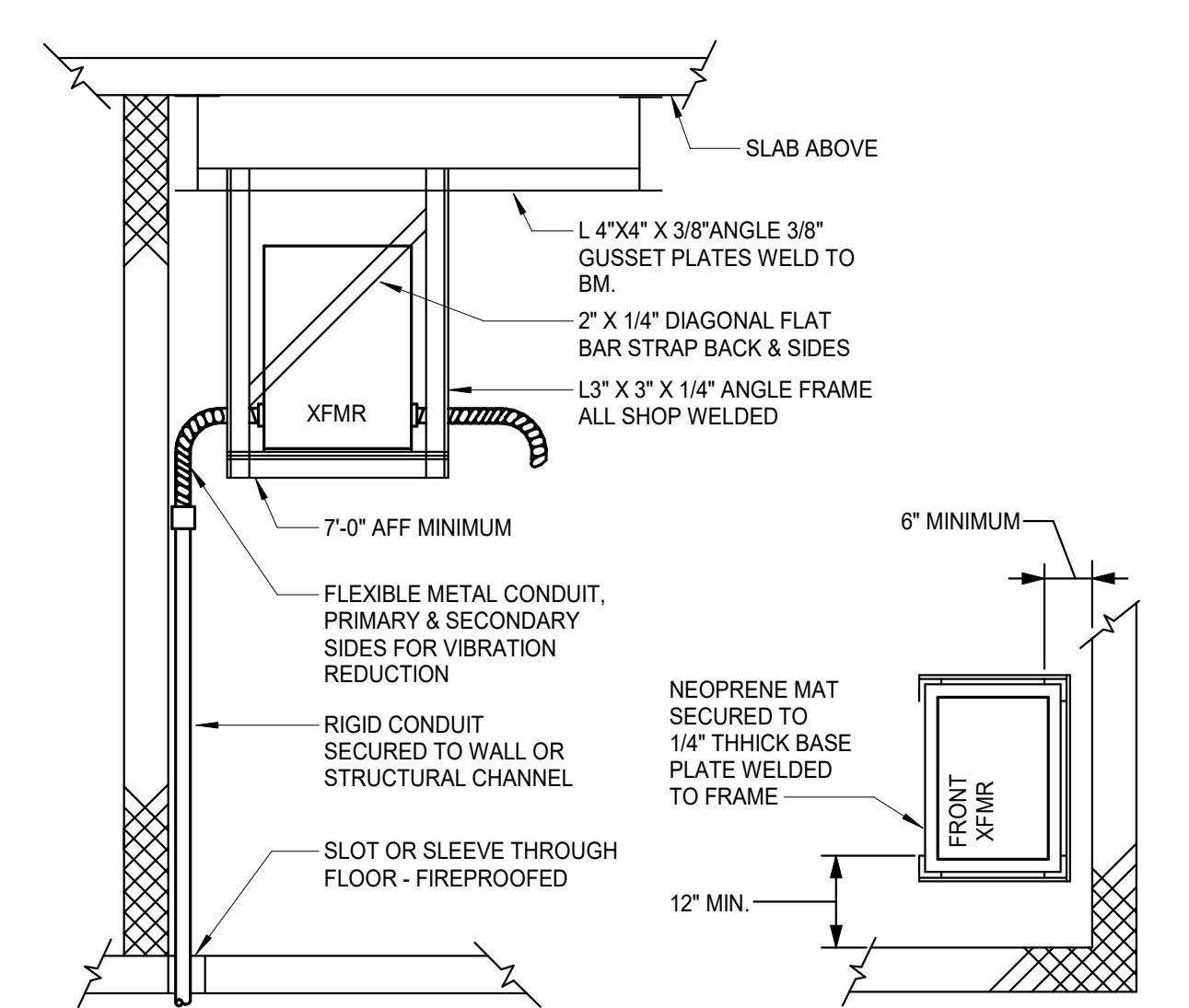
FLOOR/SECTION PHASE DRAWING NO.

CD E6.1

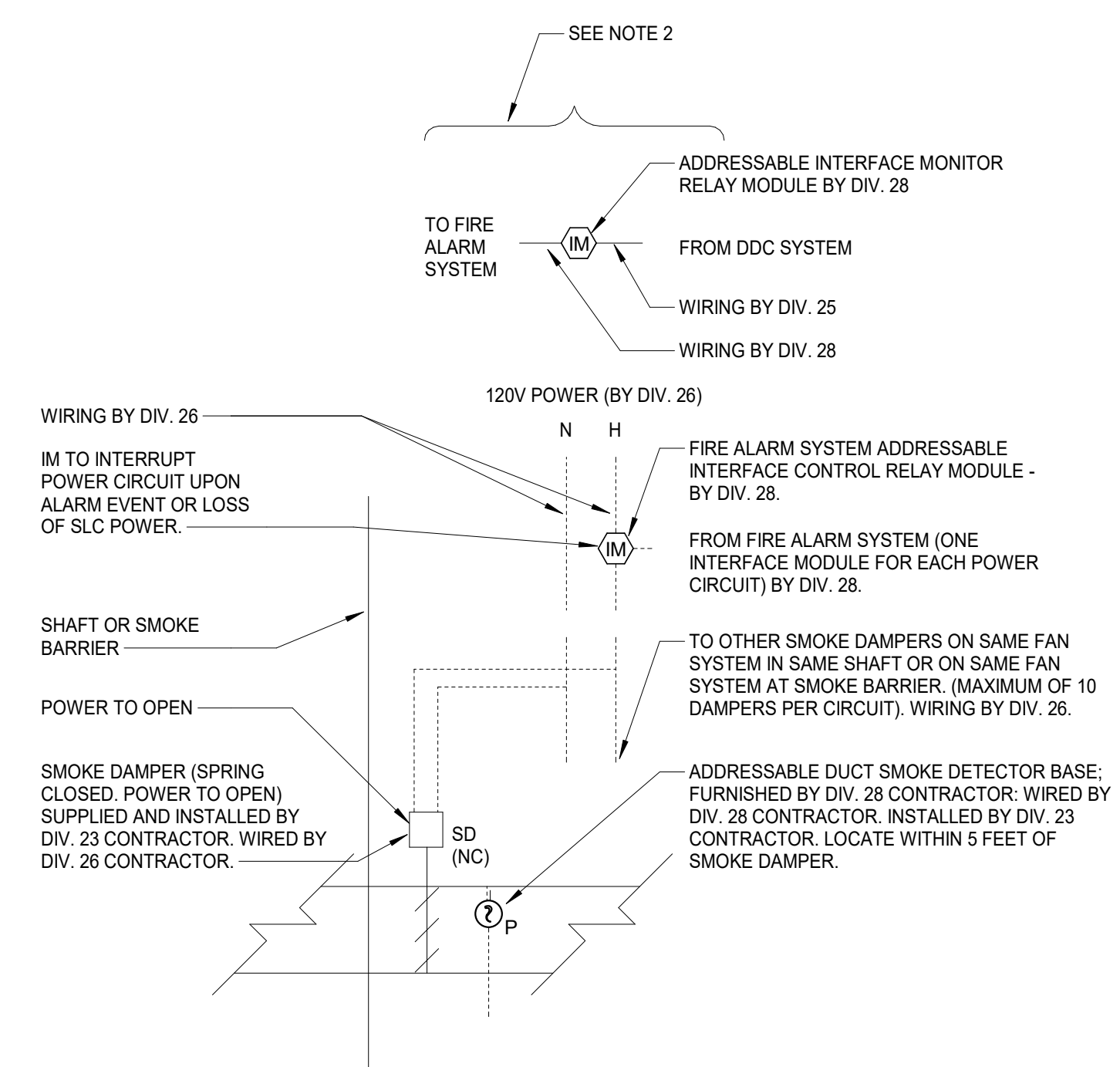
GENERAL NOTES:  
1. FOR SYMBOLS AND ABBREVIATIONS, REFER TO DRAWINGS EG.1.



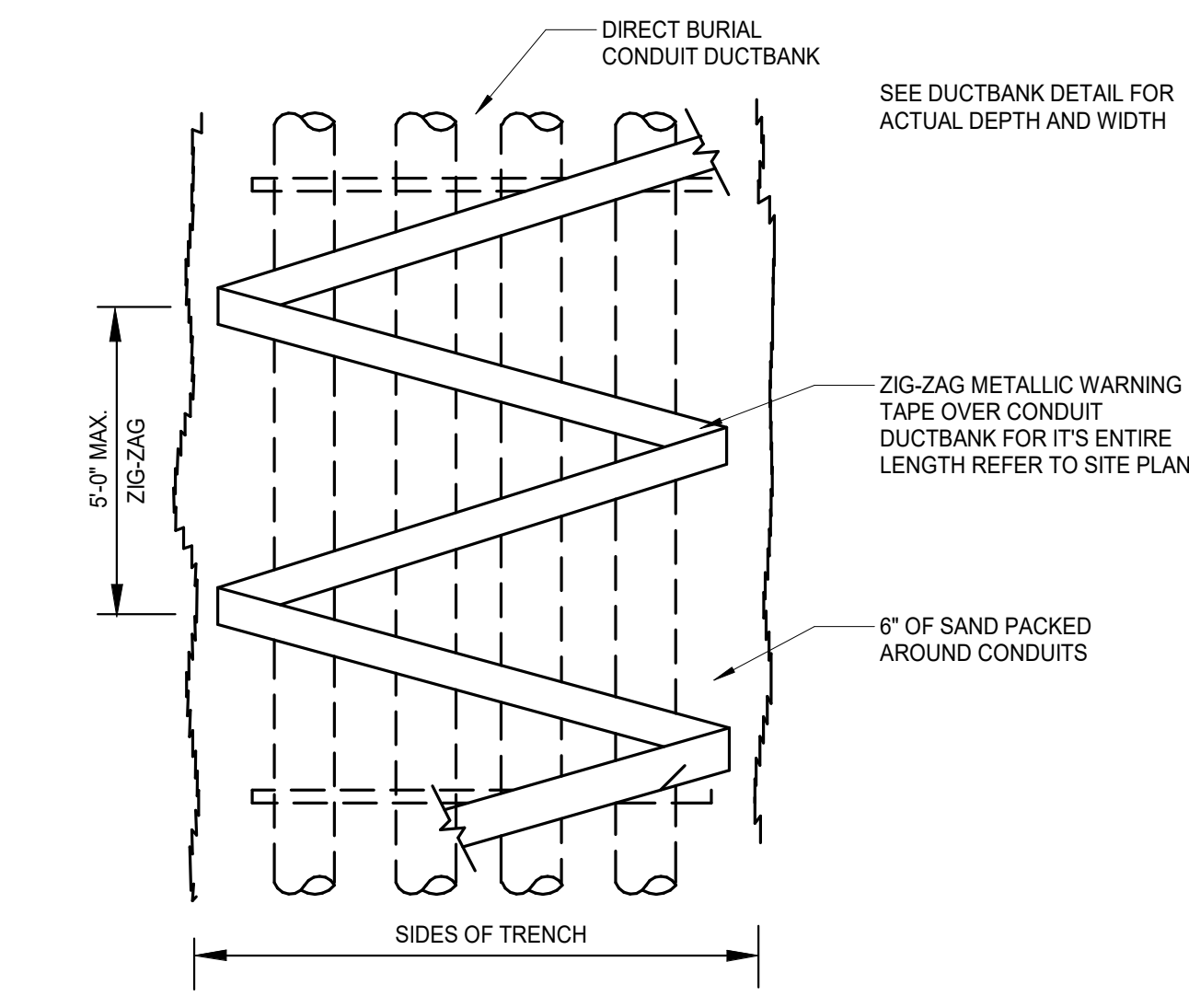
6 TYPICAL CONCRETE ENCASED DUCT BANK DETAIL  
SCALE: NTS



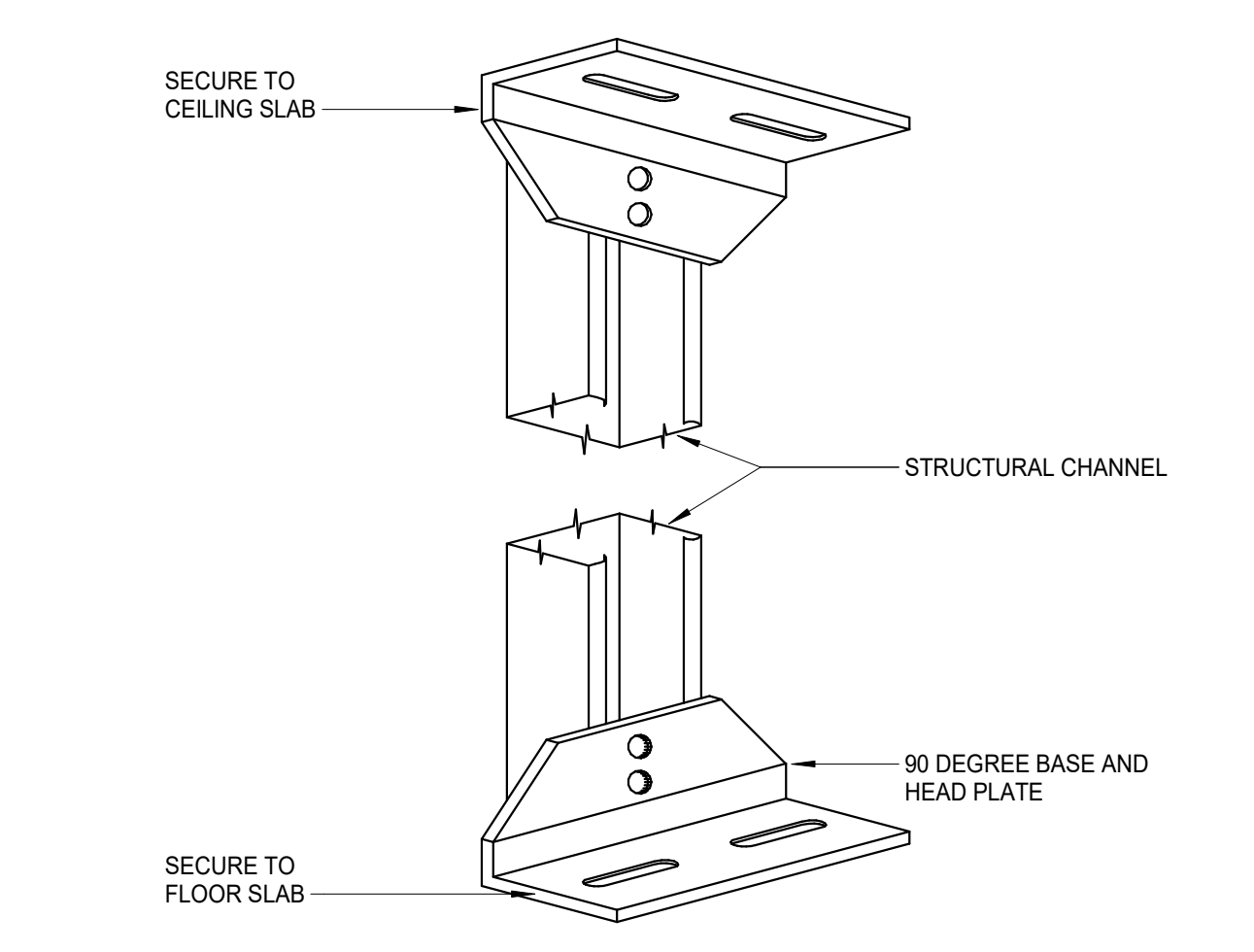
3 TRAPEZE MOUNTED TRANSFORMER  
SCALE: NTS



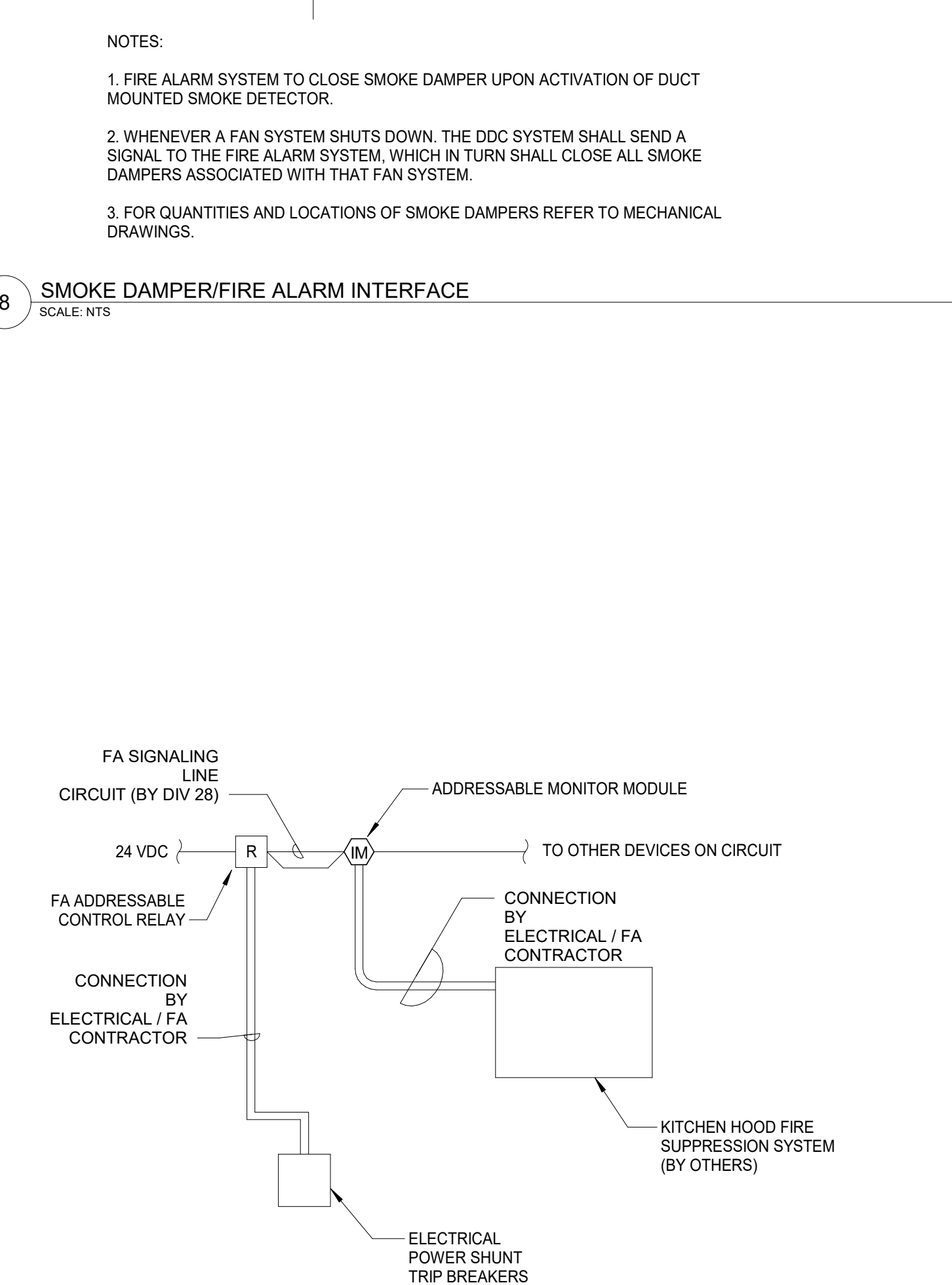
8 SMOKE DAMPER/FIRE ALARM INTERFACE  
SCALE: NTS



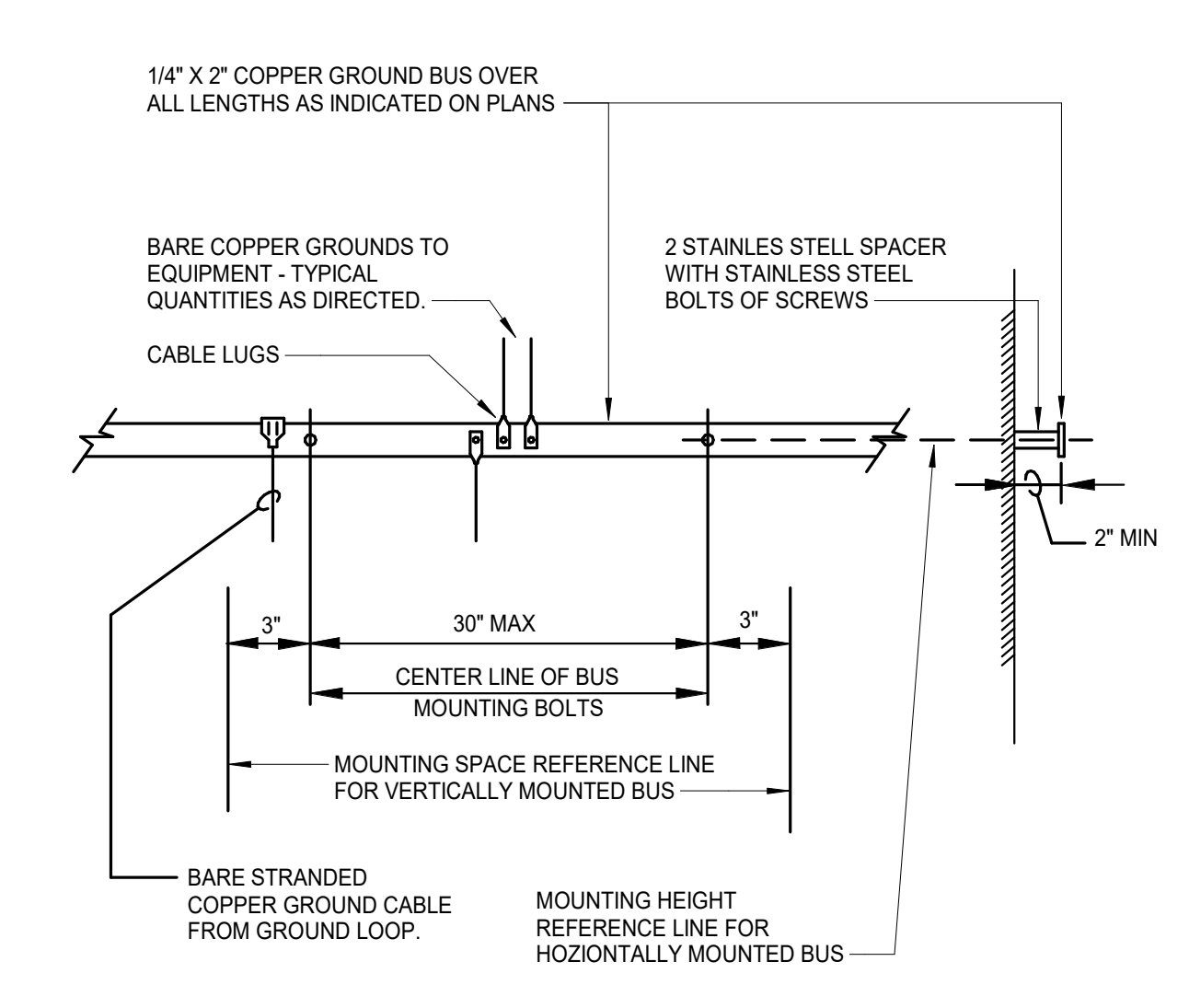
5 UNDERGROUND DUCTBANK MARKER  
SCALE: NTS



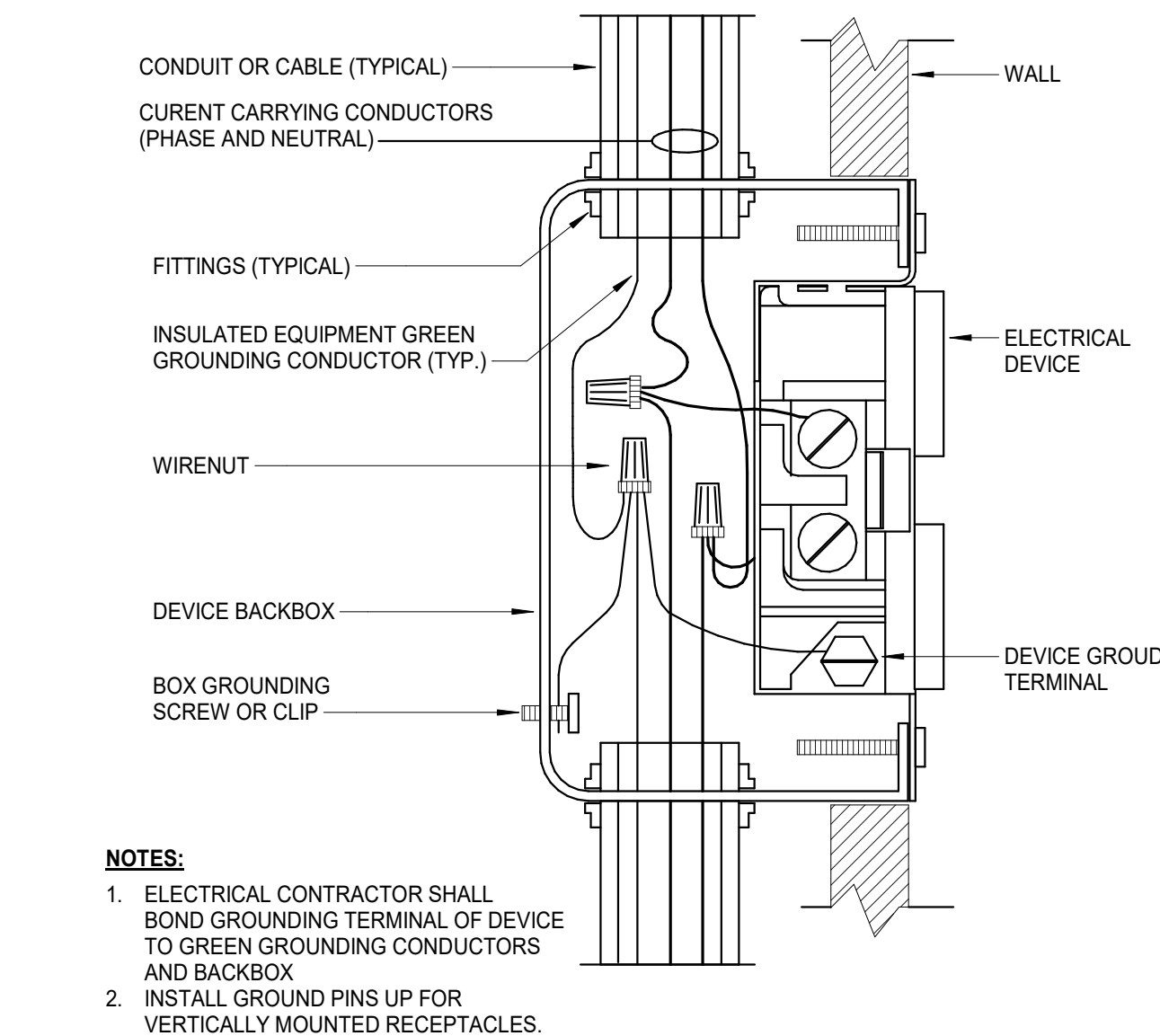
2 STRUCTURAL CHANNEL BASE AND HEAD FOR PANELBOARD  
SCALE: NTS



7 KITCHEN SUPPRESSION SYSTEM INTERFACE  
SCALE: NTS

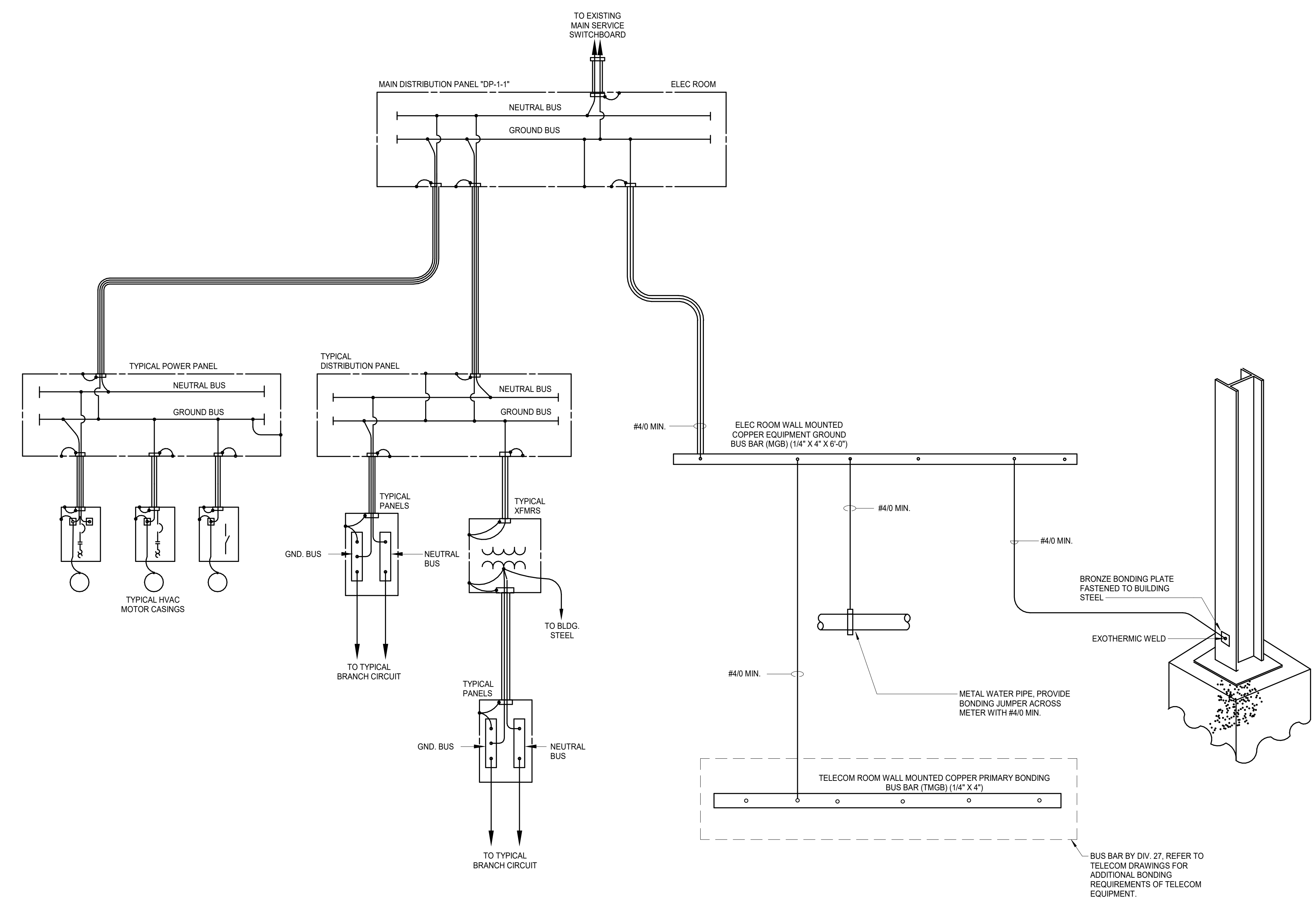


4 EQUIPMENT GROUNDING BUS  
SCALE: NTS



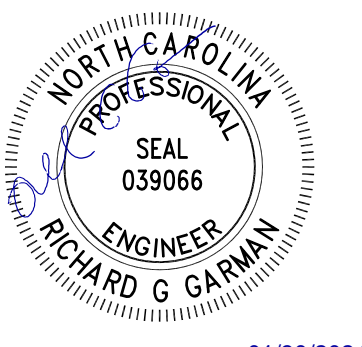
1 DEVICE WIRING/GROUNDING DETAIL  
SCALE: NTS

- GENERAL NOTES:**
1. FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS, REFER TO DRAWINGS EG.1.
  2. GROUNDING SHALL CONFORM TO ARTICLE 250 OF THE N.E.C. AND THE ELECTRICAL SPECIFICATIONS.
  3. REFER TO THE SINGLE LINE DIAGRAM OR ARTICLE 250 OF THE N.E.C. FOR ALL CONDUCTOR SIZES NOT INDICATED ON THIS DRAWING.
  4. ALL ENCLOSURE BONDING JUMPERS SHALL BE NO. 6 UNLESS NOTED OTHERWISE.
  5. CONTRACTOR SHALL MEASURE GROUND RESISTANCE FOR ALL CONNECTIONS TO THE GROUNDING SYSTEM. THE GROUND RESISTANCE SHALL NOT EXCEED 10 OHMS AT EACH GROUNDED COLUMN PRIOR TO POUR OF STRUCTURAL SLAB WHICH INDICATES RESISTANCE READINGS AT EACH GROUNDED COLUMN.
  6. UNLESS OTHERWISE NOTED, ALL ELECTRICAL EQUIPMENT AND WIRING SHOWN IN A LIGHT LINE, IS EXISTING TO REMAIN.
  7. UNLESS OTHERWISE NOTED, ALL ELECTRICAL EQUIPMENT AND WIRING SHOWN IN A DARK LINE WEIGHT, ARE NEW WORK UNDER THIS PROJECT.



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KEY PLAN

PRINCIPAL  
WILLIAM MCCULLOUGH  
PROJECT MANAGER  
GEORGE BUSHEY  
ELECTRICAL ENGINEER  
RICHARD GARMAN



REVISIONS		
NO.	BY	DESCRIPTION

NO. BY DESCRIPTION DATE

EC PACKAGE A - LEFT & RIGHT FIELD ADDITIONS 01/29/2024

**NC STATE UNIVERSITY**

**DOAK FIELD ENHANCEMENT**  
1081 Varsity Dr  
Raleigh, NC 27606

DRAWN BY \_\_\_\_\_ RM DATE 01/29/2024

PROJECT NO. 20220400 SCALE NONE

DRAWING NAME

GROUNDING DIAGRAM

FLOOR/SECTION PHASE DRAWING NO.

CD EP7.1



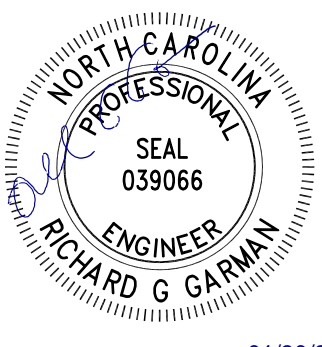
**GENERAL NOTES:**

- FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS, AND DRAWING INDEX REFER TO DRAWING EG.1.
- LIGHTING CONTROL SYSTEM BASIS OF DESIGN MANUFACTURER: ACUTY N-LIGHT. REFER TO SPECIFICATION FOR APPROVED EQUAL MANUFACTURERS.  
IF AN APPROVED EQUAL MANUFACTURER IS SELECTED, THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL REQUIRED DEVICES AND COMPONENTS SPECIFIC TO THAT MANUFACTURER'S PRODUCT REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER FOR A COMPLETE FULLY FUNCTIONAL SYSTEM. ALL (SYSTEM/ID/L) BALLASTS AND DRIVERS MUST BE COMPATIBLE WITH THE CONTROL SYSTEM SELECTED.
- THE LIGHTING CONTROL MANUFACTURER SHALL PROVIDE ALL REQUIRED POWER MODULES, ADAPTERS, DALI DEVICES, CONVERTERS, WIRING, CONNECTORS, PROGRAMMING SOFTWARE, COVERPLATES, CONTROL MODULES, TIMECLOCK SOFTWARE, MOUNTING HARDWARE, ETC. (NOT LIMITED TO THOSE SHOWN ON THE DIAGRAM) FOR A COMPLETE FULLY FUNCTIONING SYSTEM.
- THE LIGHTING CONTROL RISER IS DIAGRAMMATIC ONLY AND INCLUDE TYPICAL REQUIREMENTS FOR COMMON AREAS WITHIN THE BUILDING, AND IS NOT REPRESENTATIVE OF ALL COMPONENTS REQUIRED WITHIN THE SYSTEM. REFER TO THE LIGHTING PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.



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RICHARD GARMAN

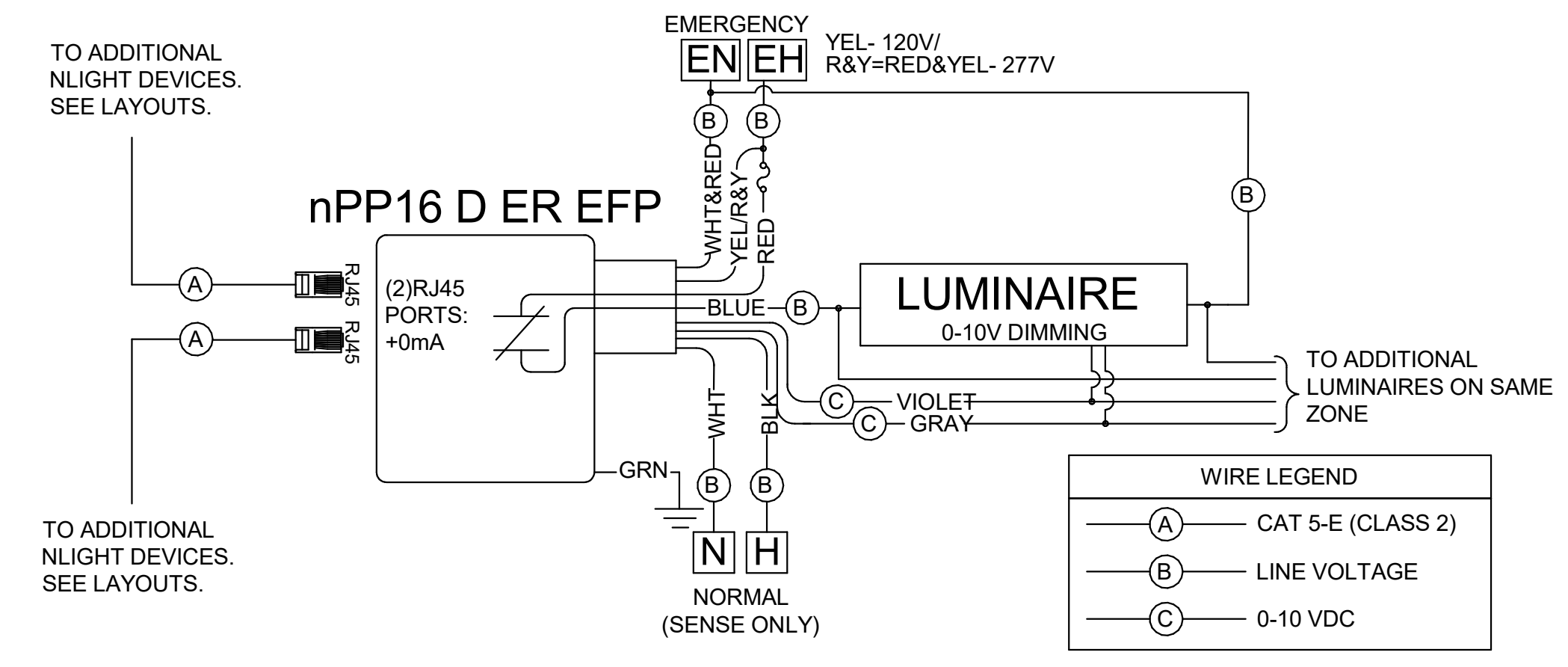


REVISIONS

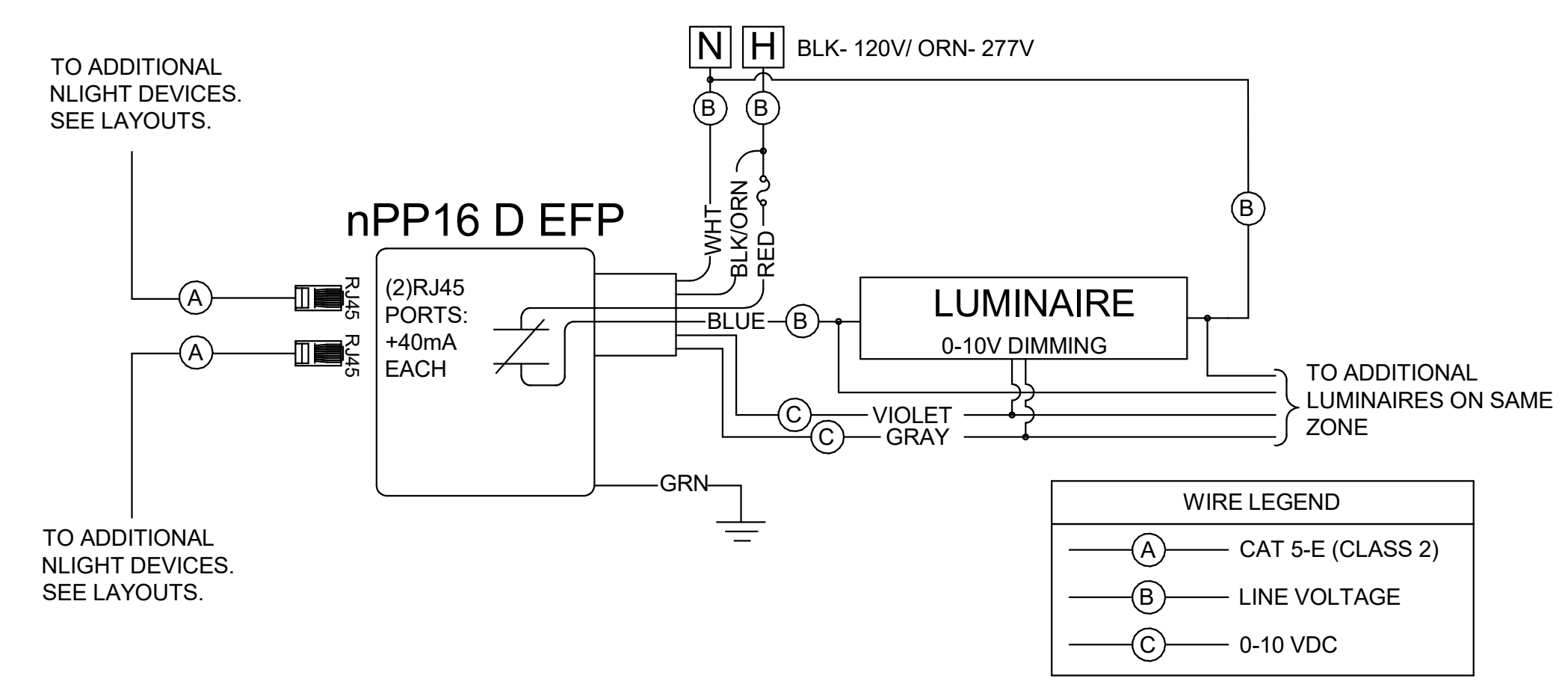
NO.	BY	DESCRIPTION	DATE
1	EC	PACKAGE A - LEFT & RIGHT FIELD ADDITIONS	01/29/2024

**NC STATE UNIVERSITY**  
DOAK FIELD ENHANCEMENT  
1081 Varsity Dr  
Raleigh, NC 27606

DRAWN BY: TML DATE: 01/29/2024  
PROJECT NO: 20220400 SCALE: NONE  
DRAWING NAME: LIGHTING CONTROL DIAGRAMS  
FLOOR/SECTION PHASE: CD DRAWING NO: EL7.1



1 TYPICAL WIRING DIAGRAM - NPP16 D ER EFP  
SCALE: NO SCALE



2 TYPICAL WIRING DIAGRAM - NPP16 D EFP  
SCALE: NO SCALE

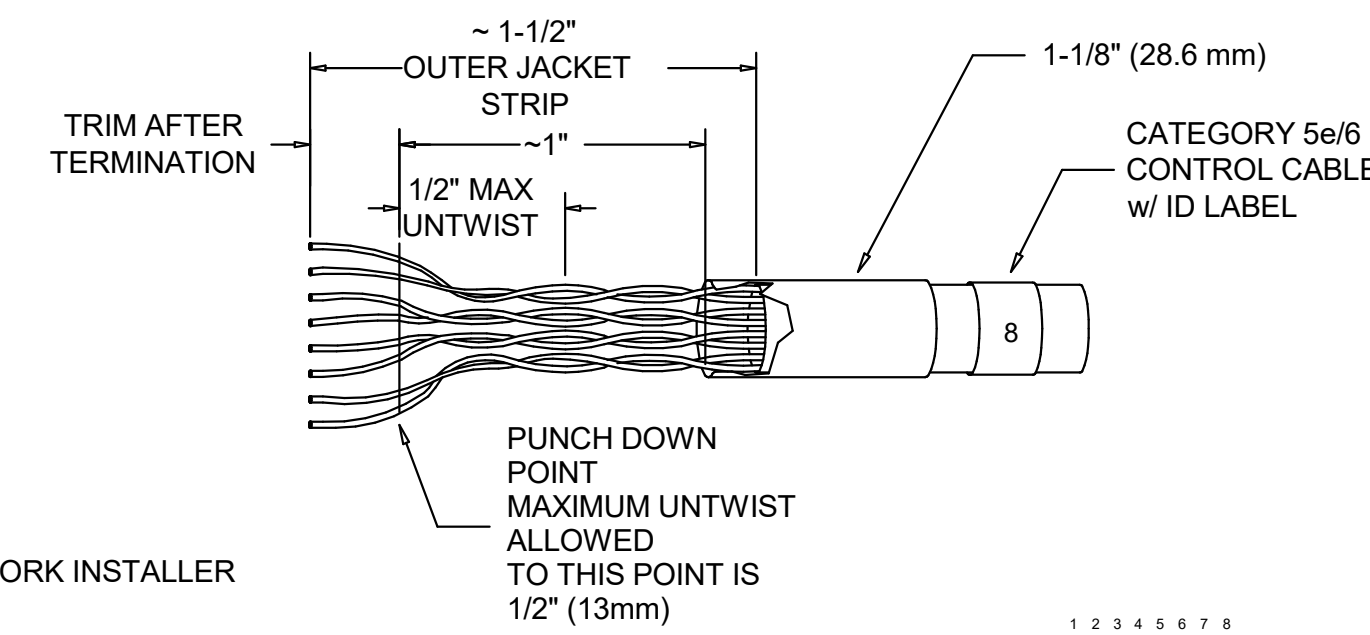
TIA / EIA-568-B CABLING STANDARD TERMINATION

Function	PAIR #	PIN OUT (T568B)	Wire Color
(T1) (R1)	1	5	WHITE w/ BLUE
	4	4	BLUE
Tx + (T2) Tx - (R2)	2	1	WHITE w/ ORANGE
	2	2	ORANGE
Rx + (T3) Rx - (R3)	3	3	WHITE w/ GREEN
	3	6	GREEN
(T4) (R4)	4	7	WHITE w/ BROWN
	4	8	BROWN

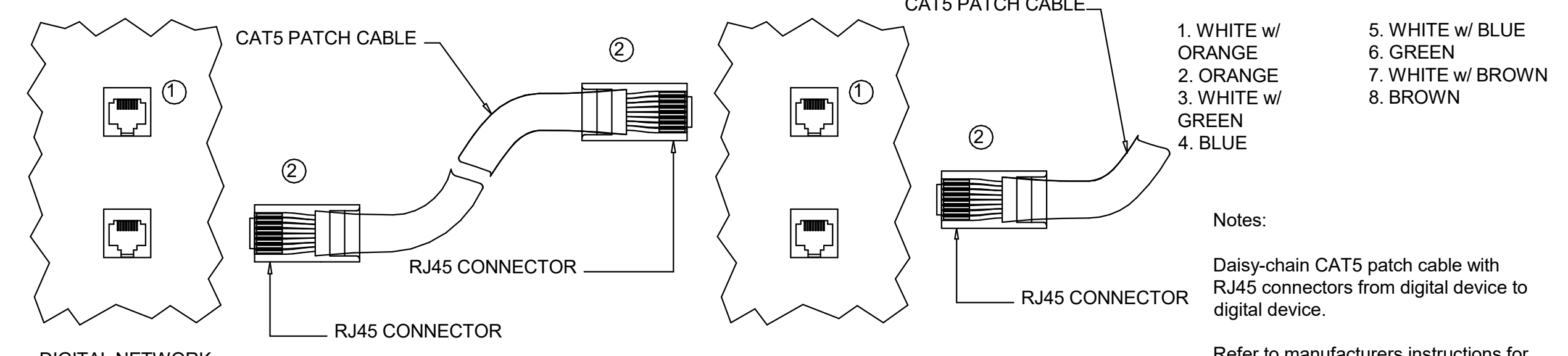
TERMINATION & TESTING OF CAT5 CABLES MUST BE DONE BY A QUALIFIED NETWORK INSTALLER

Cable termination requirements:

- Strip off outer jacket - approximately 1-1/2" (37.6 mm)
- Terminate approximately 1/2" (12.2 mm) from end of conductors on type 110 punch down block or connector per schedule (t568b) - maximum untwist of conductors to terminations is 1/2" (12.2 mm) - trim excess leads.



SEE SYSTEM SPECIFIC NOTES ON SHEET LC0.1 FOR MAXIMUM CABLE LENGTHS.



- RJ45 FEMALE CONNECTOR
- RJ45 MALE CONNECTORS. ALL CABLES SUPPLIED BY CONTRACTOR.

3 CAT5E/6 CABLE TERMINATION  
SCALE: NO SCALE

**LIGHTING CONTROL MATRIX**

SPACE DESCRIPTION	OCCUPANCY SENSORS (AUTO ON TO 50% / AUTO OFF)*	TIME CLOCK	PHOTOSENSOR (IN DAYLIGHT ZONES)	LUMINAIRE TYPE								
				DIMMING	SWITCHING	INTEGRAL OCCUPANCY SENSOR	LOW VOLTAGE LOCAL ON/OFF/ RAISE/LOWER DIMMER	LOW VOLTAGE 8 BUTTON PRESET	TOUCHSCREEN	LOCAL OVERRIDE	STANDARD ON/OFF TOGGLE SWITCH	
BATTING	X**		X	X								
WARMUP	X**			X				X				
PLAYERS LOUNGE	X		X	X			X					
LOCKER ROOM	X			X					X			
CIRCULATION	X**			X							X	
PRIVATE TOILET	X**			X		X						
RESTROOMS/SHOWERS	X**			X			X					
STORAGE/EQUIPMENT	X			X			X					
ELECTRICAL /IT ROOM					X							X
CONCESSION	X**			X			X					
EXTERIOR		X		X								

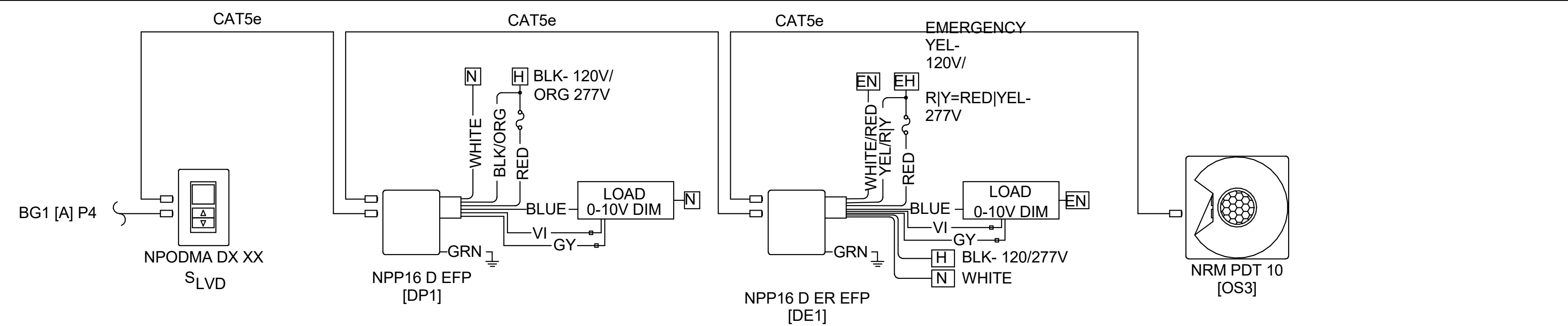
**NOTES:**  
\*OCCUPANCY SENSORS SHALL BE PROGRAMMED SUCH THAT THE LIGHTING AUTOMATICALLY TURNS OFF WITHIN 20 MINUTES OF ALL OCCUPANTS LEAVING THE SPACE  
\*\*DAYLIGHT-RESPONSIVE CONTROLS EXEMPT - GENERAL LIGHTING WITHIN SIDELIT DAYLIGHT ZONE IS UNDER 150FC.  
\*\*\*OCCUPANCY SENSORS SHALL BE PROGRAMMED SUCH THAT THE LIGHTING AUTOMATICALLY TURNS ON TO FULL OUTPUT FOR SAFETY REASONS (EXEMPTION C405.2.1.1)

**LIGHTING CONTROL SEQUENCE OF OPERATIONS**

AS PART OF THE LIGHTING CONTROL SYSTEM PROVIDE ROOM-LEVEL CONTROLS TO ALLOW FOR SWITCHING, DIMMING, DAYLIGHT HARVESTING, AND OCCUPANCY CONTROL OF ALL LUMINAIRES AS DESCRIBED BELOW.  
CONTRACTOR SHALL PROVIDE ALL REQUIRED CONTROL MODULES, POWER PACKS, WALL STATIONS AND ALL CONTROL WIRING AS REQUIRED FOR A COMPLETE FULLY FUNCTIONING SYSTEM. THE FOLLOWING SEQUENCE OF OPERATIONS DESCRIPTIONS SHALL BE APPLIED TO ALL TYPICAL ROOM TYPES.

- BATTING**
  - OCCUPANCY SENSOR: LUMINAIRES WITHIN THE BATTING CAGES SHALL BE CONTROLLED BY OCCUPANCY SENSORS WITH AUTOMATIC FULL ON/MANUAL FULL OFF CONTROL. IF MOTION IS NOT DETECTED AFTER A MAXIMUM OF 20 MINUTES, THE OCCUPANCY SENSOR SHALL TRIGGER THE LIGHTS TO GO TO 50% OUTPUT.
  - DIMMING: ALL LUMINAIRES SHALL INCLUDE 0-10V DIMMING FUNCTIONALITY. UNLESS OTHERWISE NOTED, A DEDICATED 0-10V DIMMING ZONE AND ASSOCIATED CONTROL MODULE SHALL BE PROVIDED FOR EACH FIXTURE TYPE AND SEPARATE NORMAL/EMERGENCY FIXTURES WITHIN THE SPACE.
  - DAYLIGHT (WHERE APPLICABLE): LUMINAIRES WITHIN THE BATTING CAGES SHALL BE CONTROLLED BY OCCUPANCY SENSORS AND PHOTOCELLS. LED LUMINAIRES SHALL BE DIMMED TO MAINTAIN 70FC AT THE WORK PLANE. EMERGENCY LIGHTING SHALL BE DIMMED FOR DAYLIGHT HARVESTING BUT SHALL MAINTAIN A 5% OUTPUT MINIMUM VALUE FOR EGRESS REQUIREMENTS.
  - WALL STATION CONTROLLER: BATTING CAGES SHALL INCLUDE A LOW VOLTAGE WALL STATION CONTROLLER WITH 8 BUTTONS. THE SWITCH SHALL CONSIST OF ON/OFF, RAISE/LOWER BUTTONS, AND (4) PRESET SCENES DEFINED BELOW. THE SWITCH BE FOR THE FUNCTIONALITY OF ALL LIGHTING IN THE ROOM. FINAL PRESET SCENES SHALL BE COORDINATED WITH OWNER AT FINAL AIM AND FOCUS VISIT.
    - PRESET 1 - BATTING CONDITIONS
      - ALL ZONES SET TO 100% OUTPUT
    - PRESET 2
      - ALL ZONES SET TO 75% OUTPUT
    - PRESET 3
      - ALL ZONES SET TO 50% OUTPUT
    - PRESET 4 - PITCHING LAB
      - ZONES c AND d SET TO 100% OUTPUT
      - ZONES a AND b SET TO 50% OUTPUT
- WARMUP**
  - OCCUPANCY SENSOR: LUMINAIRES WITHIN THE WARMUP ROOM SHALL BE CONTROLLED BY OCCUPANCY SENSORS WITH AUTOMATIC FULL ON/AUTOMATIC FULL OFF CONTROL. IF MOTION IS NOT DETECTED AFTER A MAXIMUM OF 20 MINUTES, THE OCCUPANCY SENSOR SHALL TRIGGER THE LIGHTS TO GO TO 0% OUTPUT.
  - DIMMING: ALL LUMINAIRES SHALL INCLUDE 0-10V DIMMING FUNCTIONALITY. UNLESS OTHERWISE NOTED, A DEDICATED 0-10V DIMMING ZONE AND ASSOCIATED CONTROL MODULE SHALL BE PROVIDED FOR EACH FIXTURE TYPE AND SEPARATE NORMAL/EMERGENCY FIXTURES WITHIN THE SPACE.
  - WALL STATION CONTROLLER: WARMUP ROOM SHALL INCLUDE A LOW VOLTAGE WALL STATION CONTROLLER WITH ON/OFF AND RAISE/LOWER FUNCTIONALITY FOR ALL LIGHTING IN THE ROOM.
- PLAYERS LOUNGE**
  - OCCUPANCY SENSOR: LUMINAIRES WITHIN THE PLAYERS LOUNGE SHALL BE CONTROLLED BY OCCUPANCY SENSORS WITH AUTOMATIC PARTIAL ON TO 50%/AUTOMATIC FULL OFF CONTROL. IF MOTION IS NOT DETECTED AFTER A MAXIMUM OF 20 MINUTES, THE OCCUPANCY SENSOR SHALL TRIGGER THE LIGHTS TO GO TO 0% OUTPUT.
  - DIMMING: ALL LUMINAIRES SHALL INCLUDE 0-10V DIMMING FUNCTIONALITY. UNLESS OTHERWISE NOTED, A DEDICATED 0-10V DIMMING ZONE AND ASSOCIATED CONTROL MODULE SHALL BE PROVIDED FOR EACH FIXTURE TYPE AND SEPARATE NORMAL/EMERGENCY FIXTURES WITHIN THE SPACE.
  - DAYLIGHT (WHERE APPLICABLE): LUMINAIRES WITHIN THE PLAYERS LOUNGE SHALL BE CONTROLLED BY OCCUPANCY SENSORS AND PHOTOCELLS. LED LUMINAIRES SHALL BE DIMMED TO MAINTAIN 30FC AT THE WORK PLANE. EMERGENCY LIGHTING SHALL BE DIMMED FOR DAYLIGHT HARVESTING BUT SHALL MAINTAIN A 5% OUTPUT MINIMUM VALUE FOR EGRESS REQUIREMENTS.
  - WALL STATION CONTROLLER: WARMUP ROOM SHALL INCLUDE A LOW VOLTAGE WALL STATION CONTROLLER WITH ON/OFF AND RAISE/LOWER FUNCTIONALITY FOR ALL LIGHTING IN THE ROOM.
- LOCKER ROOM**
  - OCCUPANCY SENSOR: LUMINAIRES WITHIN THE LOCKER ROOM SHALL BE CONTROLLED BY OCCUPANCY SENSORS WITH AUTOMATIC FULL ON/AUTOMATIC FULL OFF CONTROL. IF MOTION IS NOT DETECTED AFTER A MAXIMUM OF 20 MINUTES, THE OCCUPANCY SENSOR SHALL TRIGGER THE LIGHTS TO GO TO 0% OUTPUT. EMERGENCY LIGHTING SHALL REMAIN ON AT 50% OUTPUT FOR SECURITY PURPOSES.
  - DIMMING: ALL LUMINAIRES SHALL INCLUDE 0-10V DIMMING FUNCTIONALITY. UNLESS OTHERWISE NOTED, A DEDICATED 0-10V DIMMING ZONE AND ASSOCIATED CONTROL MODULE SHALL BE PROVIDED FOR EACH FIXTURE TYPE AND SEPARATE NORMAL/EMERGENCY FIXTURES WITHIN THE SPACE.
  - DMX CONTROL: REFER TO "RGBW LIGHT FIXTURE CONTROL REQUIREMENTS" NOTES. FINAL PROGRAMMING TO BE PROVIDED AT FINAL AIM AND FOCUS VISIT AS DIRECTED BY ARCHITECT.
  - WALL STATION CONTROLLER: THE LOCKER ROOM SHALL INCLUDE A TOUCHSCREEN CONTROLLER WITH ON/OFF/RAISE/LOWER FUNCTIONALITY AS WELL AS COLOR CHANGING CONTROL FOR RGBW FIXTURES. THE TOUCHSCREEN SHALL OPERATE ALL LIGHTING IN THE ROOM.
- CIRCULATION**
  - OCCUPANCY SENSOR: LUMINAIRES WITHIN CIRCULATION SPACES SHALL BE CONTROLLED BY OCCUPANCY SENSORS WITH AUTOMATIC FULL ON/AUTOMATIC FULL OFF CONTROL. IF MOTION IS NOT DETECTED AFTER A MAXIMUM OF 20 MINUTES, THE OCCUPANCY SENSOR SHALL TRIGGER THE LIGHTS TO GO TO 0% OUTPUT. EMERGENCY LIGHTING SHALL REMAIN ON AT 50% OUTPUT FOR SECURITY PURPOSES.
  - DIMMING: ALL LUMINAIRES SHALL INCLUDE 0-10V DIMMING FUNCTIONALITY. UNLESS OTHERWISE NOTED, A DEDICATED 0-10V DIMMING ZONE AND ASSOCIATED CONTROL MODULE SHALL BE PROVIDED FOR EACH FIXTURE TYPE AND SEPARATE NORMAL/EMERGENCY FIXTURES WITHIN THE SPACE.
  - HOUSEKEEPING OVERRIDE: PROVIDE ON/OFF LOW VOLTAGE HOUSEKEEPING OVERRIDE DEVICE TO ALLOW OCCUPANTS TO TURN ON NORMAL AND EMERGENCY LIGHTING AFTER SCHEDULED TIMECLOCK HOURS. DEVICE SHALL CONTROL LIGHTING WITHIN CIRCULATION AREAS FOR A MAXIMUM OF 2-HOURS.
- PRIVATE TOILET**
  - OCCUPANCY SENSOR: ROOMS SHALL INCLUDE LOCAL COMBINATION WALL SWITCH OCCUPANCY SENSOR FOR AUTO ON TO FULL/AUTO OFF CONTROL OF ALL LIGHTING WITHIN THE ROOM.
- RESTROOMS/SHOWERS**
  - DIMMING: ALL LUMINAIRES SHALL INCLUDE 0-10V DIMMING FUNCTIONALITY. UNLESS OTHERWISE NOTED, A DEDICATED 0-10V DIMMING ZONE AND ASSOCIATED CONTROL MODULE SHALL BE PROVIDED FOR EACH FIXTURE TYPE AND SEPARATE NORMAL/EMERGENCY FIXTURES WITHIN THE SPACE.
  - OCCUPANCY SENSOR: LUMINAIRES WITHIN RESTROOMS/SHOWERS SHALL BE CONTROLLED BY OCCUPANCY SENSORS WITH AUTOMATIC FULL ON / AUTOMATIC FULL OFF. IF MOTION IS NOT DETECTED AFTER A MAXIMUM OF 20 MINUTES, THE OCCUPANCY SENSOR SHALL TRIGGER THE LIGHTS TO GO TO 0% OUTPUT. EMERGENCY LIGHTING SHALL REMAIN ON AT 50% OUTPUT FOR SECURITY PURPOSES.
  - WALL STATION CONTROLLER: RESTROOMS/SHOWERS SHALL INCLUDE LOW VOLTAGE WALL STATION CONTROLLER WITH ON/OFF AND RAISE/LOWER FUNCTIONALITY FOR ALL LIGHTING IN THE ROOM.
- STORAGE/EQUIPMENT**
  - WALL STATION CONTROLLER: STORAGE ROOMS SHALL INCLUDE LOCAL COMBINATION WALL SWITCH OCCUPANCY SENSOR FOR AUTO ON TO 50%/AUTOMATIC FULL OFF CONTROL OF ALL LIGHTING WITHIN THE ROOM. SWITCH SHALL ALSO INCLUDE RAISE/LOWER CAPABILITIES.
  - DIMMING: ALL LUMINAIRES SHALL INCLUDE 0-10V DIMMING FUNCTIONALITY. UNLESS OTHERWISE NOTED, A DEDICATED 0-10V DIMMING ZONE AND ASSOCIATED CONTROL MODULE SHALL BE PROVIDED FOR EACH FIXTURE TYPE WITHIN THE SPACE.
  - WALL STATION CONTROLLER: STORAGE/EQUIPMENT SHALL INCLUDE A LOW VOLTAGE WALL STATION CONTROLLER WITH ON/OFF AND RAISE/LOWER FUNCTIONALITY FOR ALL LIGHTING IN THE ROOM.
- ELECTRICAL ROOM**
  - UTILITY AREAS SHALL INCLUDE LOCAL LINE VOLTAGE SWITCHING AND EMERGENCY SHUNT SWITCHING DEVICES FOR MANUAL ON/MANUAL OFF CONTROL OF ALL LIGHTING WITHIN THE SPACE.
- CONCESSION**
  - OCCUPANCY SENSOR: LUMINAIRES WITHIN CONCESSIONS SHALL BE CONTROLLED BY OCCUPANCY SENSORS WITH AUTOMATIC FULL ON/AUTOMATIC FULL OFF CONTROL. IF MOTION IS NOT DETECTED AFTER A MAXIMUM OF 20 MINUTES, THE OCCUPANCY SENSOR SHALL TRIGGER THE LIGHTS TO GO TO 0% OUTPUT. EMERGENCY LIGHTING SHALL REMAIN ON AT 50% OUTPUT FOR SECURITY PURPOSES.
  - DIMMING: ALL LUMINAIRES SHALL INCLUDE 0-10V DIMMING FUNCTIONALITY. UNLESS OTHERWISE NOTED, A DEDICATED 0-10V DIMMING ZONE AND ASSOCIATED CONTROL MODULE SHALL BE PROVIDED FOR EACH FIXTURE TYPE WITHIN THE SPACE.
  - WALL STATION CONTROLLER: CONCESSIONS SHALL INCLUDE A LOW VOLTAGE WALL STATION CONTROLLER WITH ON/OFF AND RAISE/LOWER FUNCTIONALITY FOR ALL LIGHTING IN THE ROOM.
- EXTERIOR**
  - DIMMING: REFER TO LUMINAIRE SCHEDULE FOR DIMMING REQUIREMENTS FOR LUMINAIRES. IF LUMINAIRES REQUIRE DIMMING, EACH FIXTURE TYPE SHALL INCLUDE 0-10V DIMMING FUNCTIONALITY.
  - TIMECLOCK CONTROL: EXTERIOR LIGHTING SHALL BE CONNECTED TO DIMMING MODULES WITH CONTROL THROUGH TIME CLOCK AND EXTERIOR PHOTOSENSOR FOR AUTO ON 30 MINUTES BEFORE DUSK AND AUTO OFF 30 MINUTES AFTER DAWN.

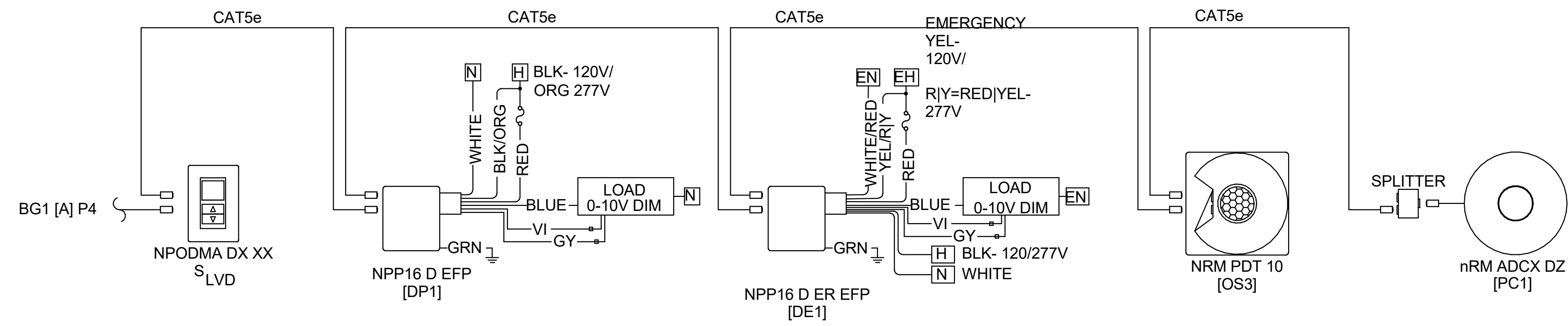
- GENERAL NOTES:**
- FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS, AND DRAWING INDEX REFER TO DRAWING EG.1.
  - LIGHTING CONTROL SYSTEM BASIS OF DESIGN MANUFACTURER: ACUTY N-LIGHT. REFER TO SPECIFICATION FOR APPROVED EQUAL MANUFACTURERS.  
IF AN APPROVED EQUAL MANUFACTURER IS SELECTED, THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL REQUIRED DEVICES AND COMPONENTS SPECIFIC TO THAT MANUFACTURER'S PRODUCT REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER FOR A COMPLETE FULLY FUNCTIONAL SYSTEM. ALL ECOSYSTEM(DALI) BALLASTS AND DRIVERS MUST BE COMPATIBLE WITH THE CONTROL SYSTEM SELECTED.
  - THE LIGHTING CONTROL MANUFACTURER SHALL PROVIDE ALL REQUIRED POWER MODULES, ADAPTERS, DALI DEVICES, CONVERTERS, WIRING, CONNECTORS, PROGRAMMING SOFTWARE, COVERPLATES, CONTROL MODULES, TIMECLOCK SOFTWARE, MOUNTING HARDWARE, ETC. (NOT LIMITED TO THOSE SHOWN ON THE DIAGRAM) FOR A COMPLETE FULLY FUNCTIONING SYSTEM.
  - THE LIGHTING CONTROL RISER IS DIAGRAMMATIC ONLY AND INCLUDE TYPICAL REQUIREMENTS FOR COMMON AREAS WITHIN THE BUILDING, AND IS NOT REPRESENTATIVE OF ALL COMPONENTS REQUIRED WITHIN THE SYSTEM. REFER TO THE LIGHTING PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.



NOTE: PROVIDE QUANTITIES FOR DEVICES AS REQUIRED FOR SEPARATE LIGHTING ZONES SHOWN ON PLAN. MINIMUM OF 1 MODULE PER FIXTURE TYPE IN THE SPACE.

9 TYPICAL WIRING DIAGRAM - WARMUP

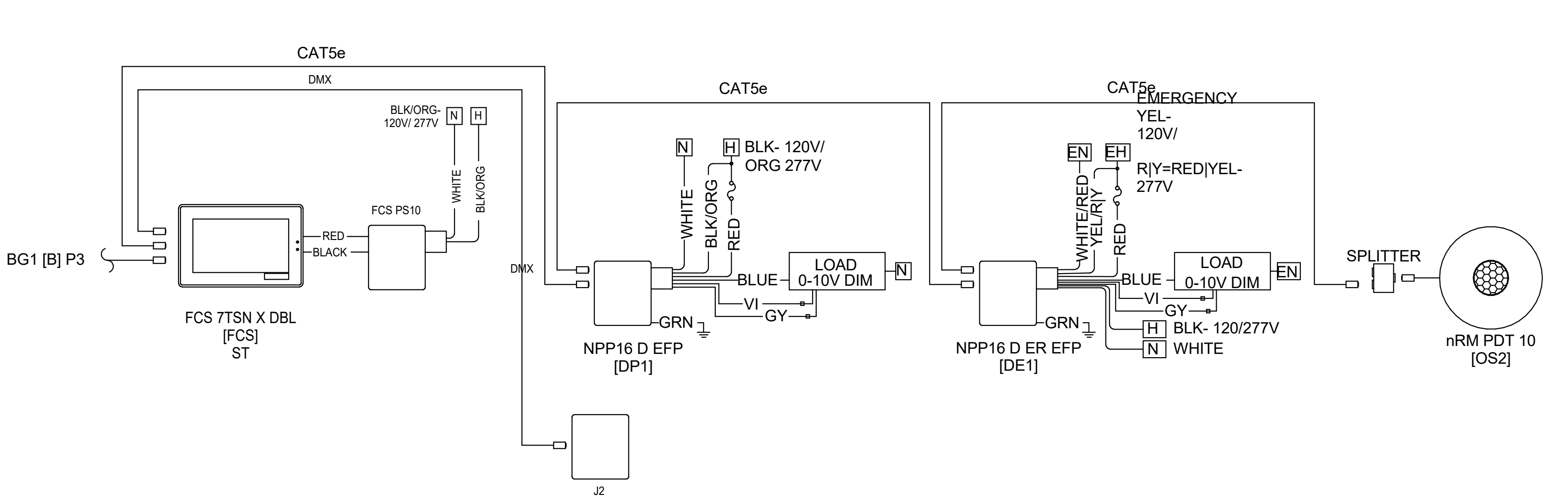
SCALE: NO SCALE



NOTE: PROVIDE QUANTITIES FOR DEVICES AS REQUIRED FOR SEPARATE LIGHTING ZONES SHOWN ON PLAN. MINIMUM OF 1 MODULE PER FIXTURE TYPE IN THE SPACE.

8 TYPICAL WIRING DIAGRAM - PLAYERS LOUNGE

SCALE: NO SCALE



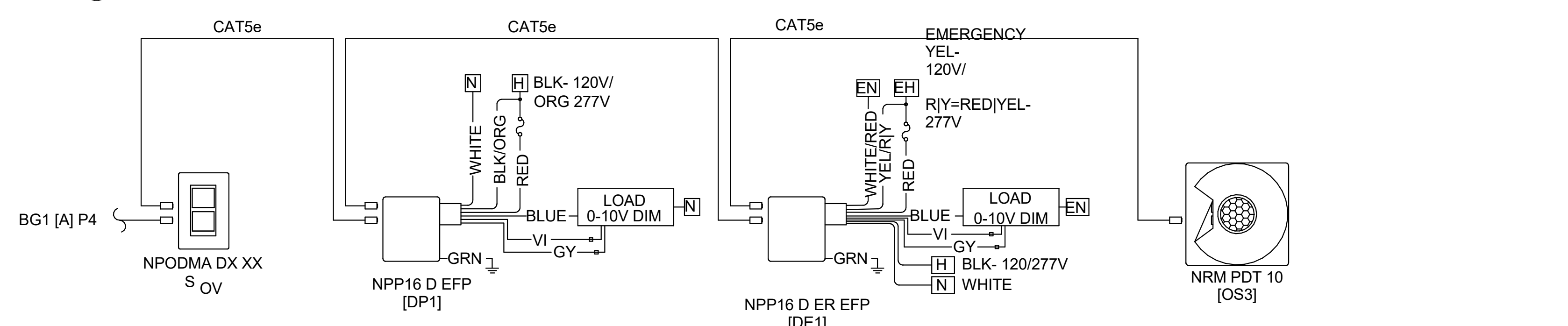
NOTE: PROVIDE QUANTITIES FOR DEVICES AS REQUIRED FOR SEPARATE LIGHTING ZONES SHOWN ON PLAN. MINIMUM OF 1 MODULE PER FIXTURE TYPE IN THE SPACE.

**RGBW LIGHT FIXTURE CONTROL REQUIREMENTS:**

- UNLESS OTHERWISE NOTES, ALL TYPE J2 FIXTURES SHALL INCLUDE DMX ADDRESSABLE RGBW COLOR CHANGING REQUIREMENTS, WITH A MINIMUM OF 4 CHANNELS OF CONTROL PER FIXTURE FOR COLOR CHANGING CAPABILITIES. THE LIGHTING CONTROL SYSTEM SHALL CONSIST OF AN EXPANDABLE DMX BASED SYSTEM WITH DISTRIBUTED DMX CONTROLLERS CONNECTED IN A NETWORK APPLICATION. CONTROLLERS SHALL PROVIDE DMX OUTPUT TO EACH LIGHTING FIXTURE SUCH THAT EACH FIXTURES SHALL HAVE THE CAPABILITY TO BE PROGRAMMED INDIVIDUALLY WITHIN THE SYSTEM. CONTRACTOR SHALL INCLUDE ALL REQUIRED CONTROLLERS, SPLITTERS, POWER SUPPLIES, CABLING, WALL STATIONS, ETC. FOR A COMPLETE FULLY FUNCTIONING SYSTEM. DMX CONTROL SHALL BE INTEGRATED INTO THE OVERALL LIGHTING CONTROL SYSTEM.
- THE DMX BASE CONTROL SYSTEM SHALL BE MANUFACTURED BY ONE OF THE FOLLOWING: FRESCO, PHAROS, ELECTRONIC THEATRE CONTROLLERS (ETC.), OR PHILLIPS.
- THE CONTROL SYSTEM SHALL INCLUDE LOCAL WALL STATION DEVICE TO ALLOW FOR MANUAL CHANGING OF LIGHTING SCENES IN THE CONTROL SYSTEM.

7 TYPICAL WIRING DIAGRAM - LOCKER ROOM

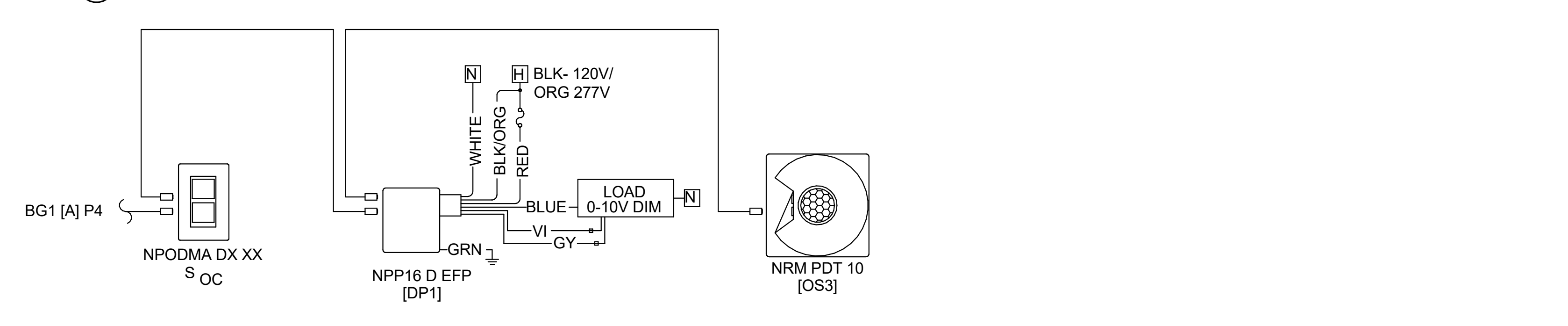
SCALE: NO SCALE



NOTE: PROVIDE QUANTITIES FOR DEVICES AS REQUIRED FOR SEPARATE LIGHTING ZONES SHOWN ON PLAN. MINIMUM OF 1 MODULE PER FIXTURE TYPE IN THE SPACE.

6 TYPICAL WIRING DIAGRAM - CORRIDOR

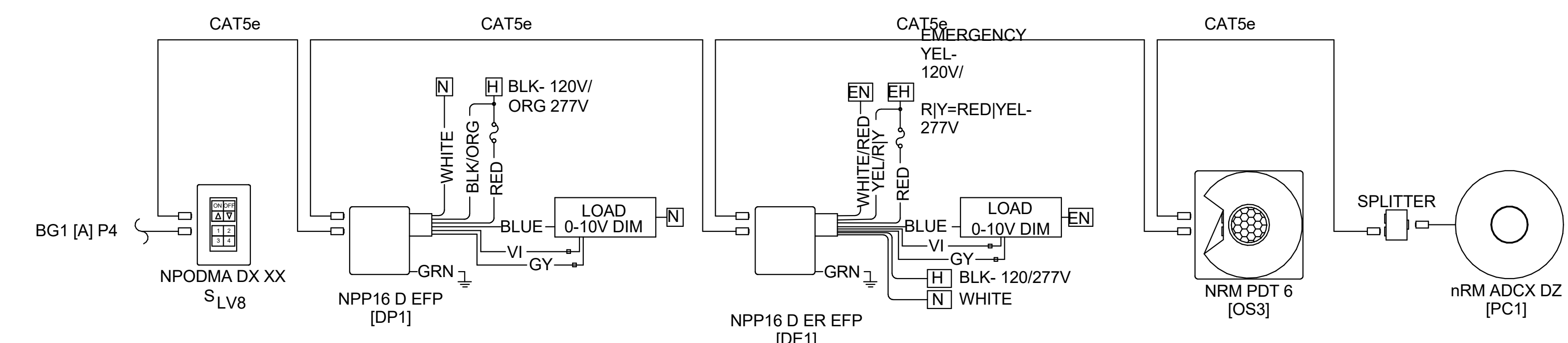
SCALE: NO SCALE



NOTE: PROVIDE QUANTITIES FOR DEVICES AS REQUIRED FOR SEPARATE LIGHTING ZONES SHOWN ON PLAN. MINIMUM OF 1 MODULE PER FIXTURE TYPE IN THE SPACE.

5 TYPICAL WIRING DIAGRAM - PRIVATE RESTROOM

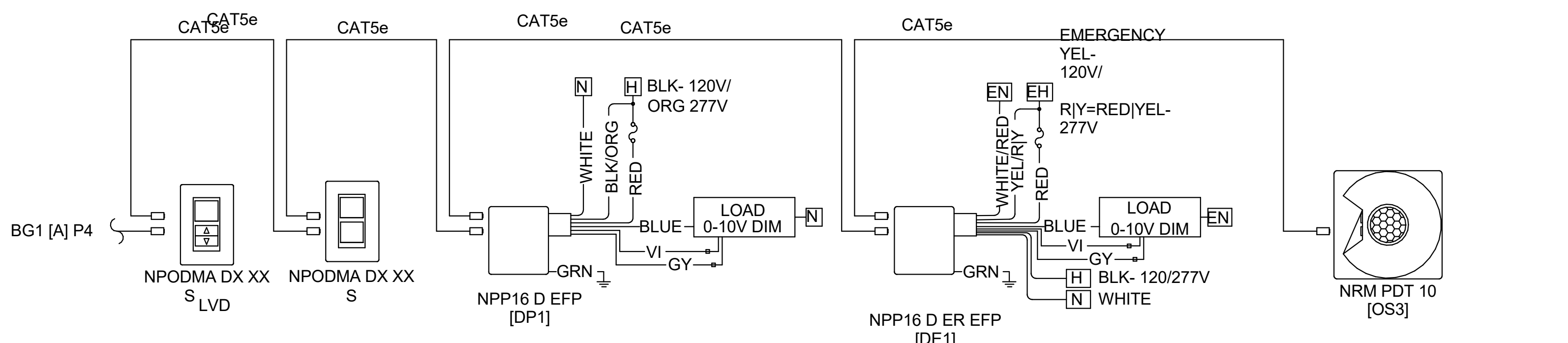
SCALE: NO SCALE



NOTE: PROVIDE QUANTITIES FOR DEVICES AS REQUIRED FOR SEPARATE LIGHTING ZONES SHOWN ON PLAN. MINIMUM OF 1 MODULE PER FIXTURE TYPE IN THE SPACE.

4 TYPICAL WIRING DIAGRAM - BATTING

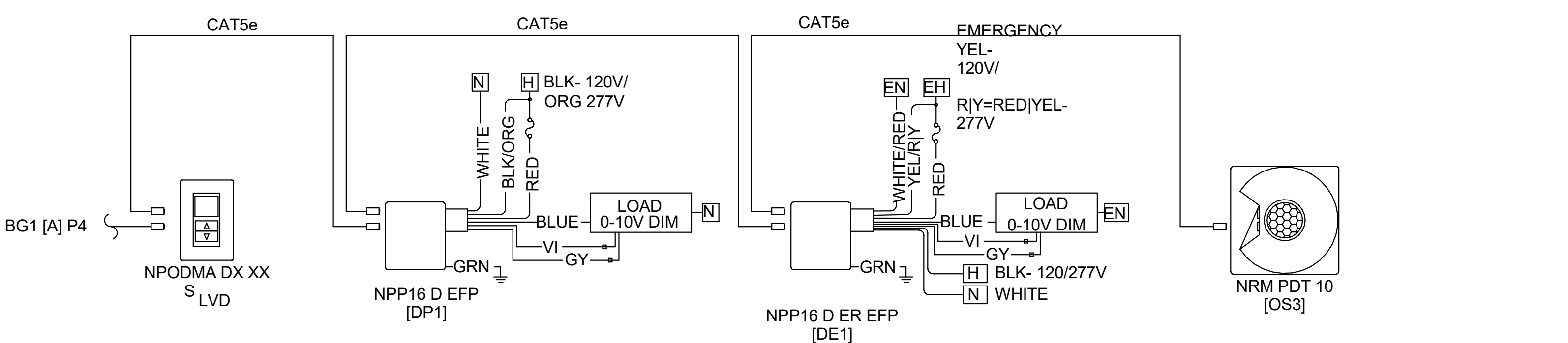
SCALE: NO SCALE



NOTE: PROVIDE QUANTITIES FOR DEVICES AS REQUIRED FOR SEPARATE LIGHTING ZONES SHOWN ON PLAN. MINIMUM OF 1 MODULE PER FIXTURE TYPE IN THE SPACE.

3 TYPICAL WIRING DIAGRAM - RESTROOMS/SHOWERS

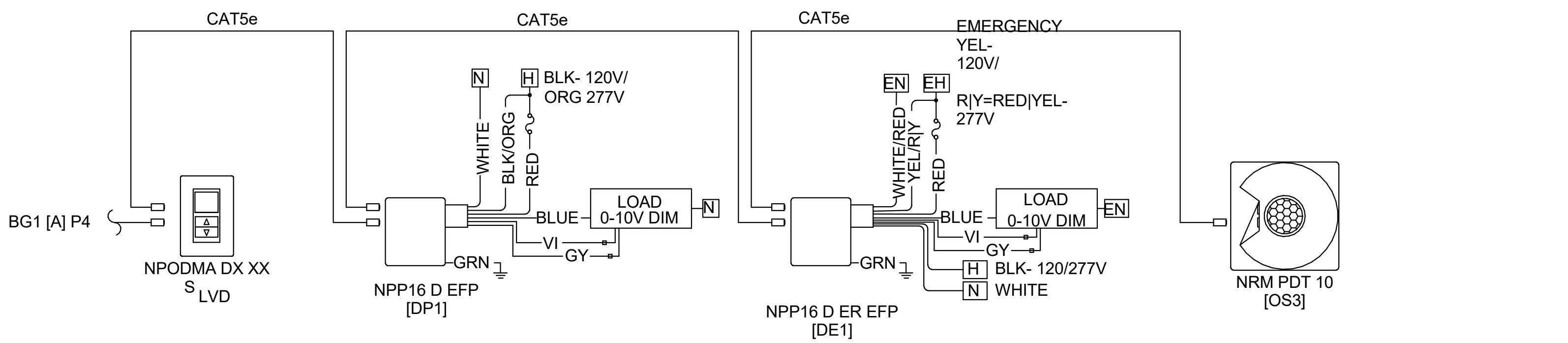
SCALE: NO SCALE



NOTE: PROVIDE QUANTITIES FOR DEVICES AS REQUIRED FOR SEPARATE LIGHTING ZONES SHOWN ON PLAN. MINIMUM OF 1 MODULE PER FIXTURE TYPE IN THE SPACE.

2 TYPICAL WIRING DIAGRAM - STORAGE/EQUIPMENT

SCALE: NO SCALE



NOTE: PROVIDE QUANTITIES FOR DEVICES AS REQUIRED FOR SEPARATE LIGHTING ZONES SHOWN ON PLAN. MINIMUM OF 1 MODULE PER FIXTURE TYPE IN THE SPACE.

1 TYPICAL WIRING DIAGRAM - CONCESSIONS

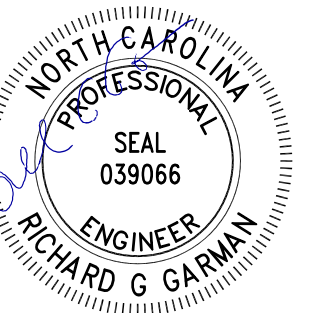
SCALE: NO SCALE



SCO PROJECT NO. 22-24384-01A  
NC STATE PROJ. NO. 202120015

KEY PLAN

PRINCIPAL  
WILLIAM MCCULLOUGH  
PROJECT MANAGER  
GEORGE BUSHEY  
ELECTRICAL ENGINEER  
RICHARD GARMAN



01/30/2024

REVISIONS

NO.	BY	DESCRIPTION	DATE
EC		PACKAGE A - LEFT & RIGHT FIELD ADDITIONS	01/29/2024

NC STATE UNIVERSITY

DOAK FIELD ENHANCEMENT  
1081 Varsity Dr  
Raleigh, NC 27606

DRAWN BY TML DATE 01/29/2024

PROJECT NO. 20220400 SCALE NONE

DRAWING NAME

LIGHTING CONTROL DIAGRAMS

FLOOR/SECTION PHASE DRAWING NO.

CD EL7.2



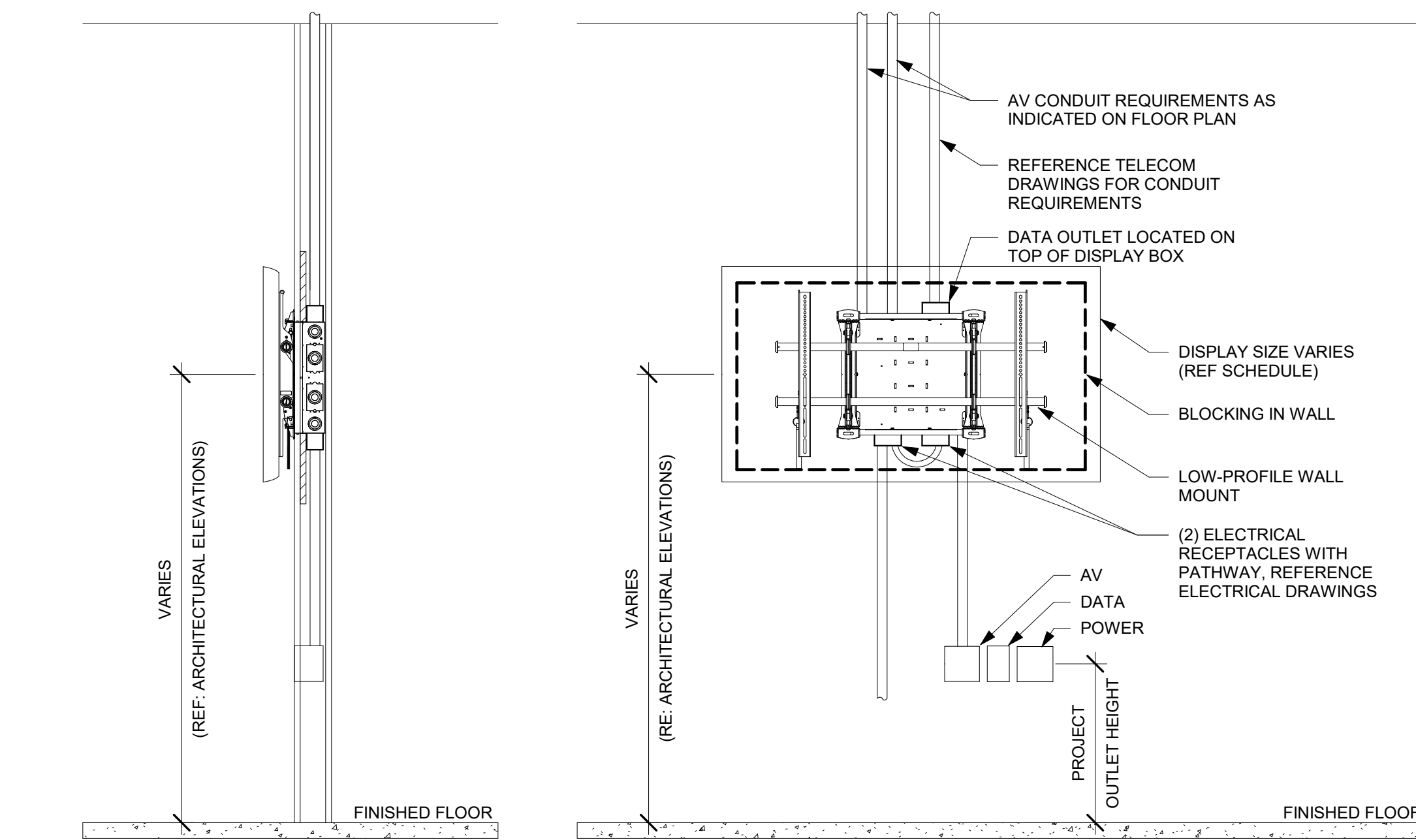




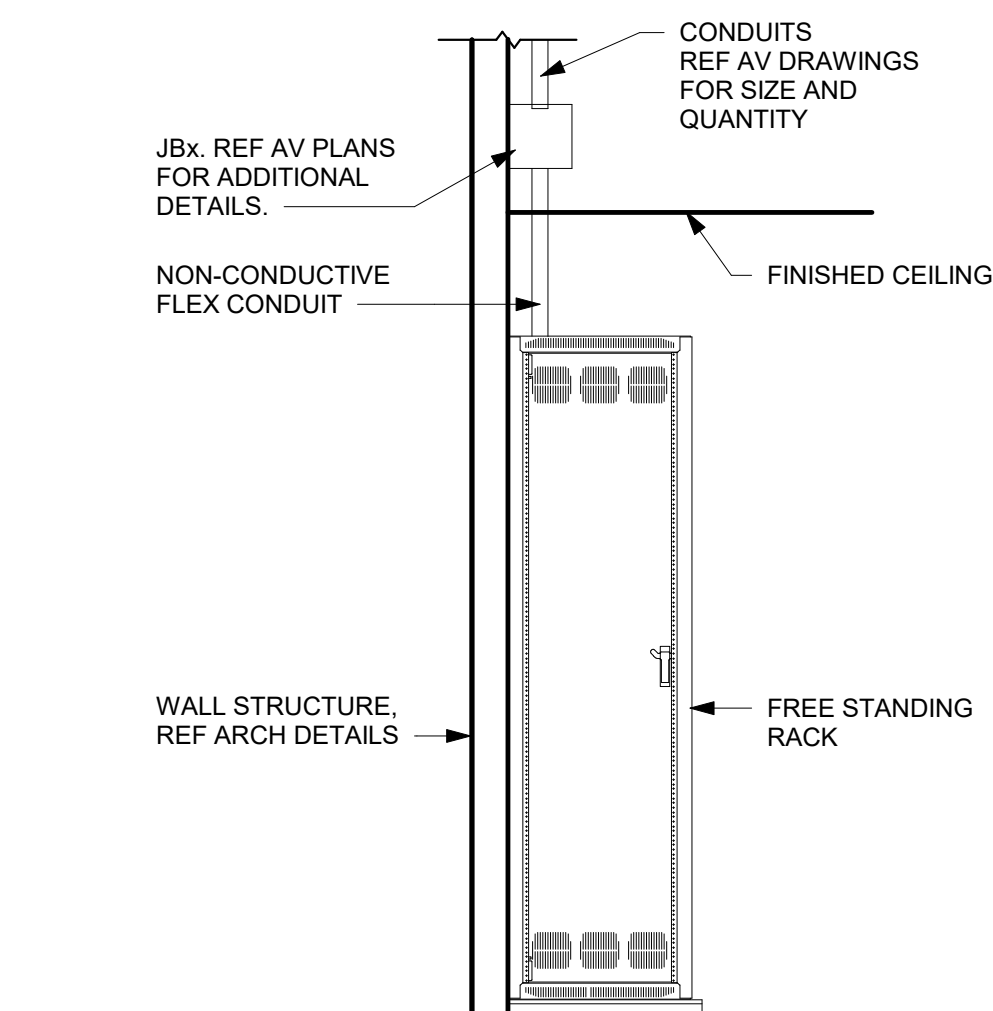
SCO PROJECT NO. 22-24384-01A  
NC STATE PROJ. NO. 202120015

KEY PLAN

AV RACK SCHEDULE											
RACK DESIGNATOR	ROOM	RACK STYLE	TYPE #	RACK MOUNTING HEIGHT (AFF TO BOTTOM OF RACK)	JBR MOUNTING HEIGHT (AFF TO CENTER OF JBR)		DETAIL (SEE BELOW)	NOMINAL SIZE (RU)	NOMINAL DEPTH	OPTIONS	NOTES
					WALL RACK	FLOOR RACK					
ER-AV	IDF-121	FREE STANDING			3' - 5 1/2"		1/ES0-90	44	36"		



2 MONITOR MOUNTING DETAIL  
SCALE: 3/4" = 1'-0"



1 FREE STANDING RACK DETAIL  
SCALE: 1/2" = 1'-0"

REVISIONS

NO.	BY	DESCRIPTION	DATE
A	EC	PACKAGE A - LEFT & RIGHT FIELD ADDITIONS	01/31/2024

**NC STATE UNIVERSITY**

**DOAK FIELD ENHANCEMENT**  
1081 Varsity Dr  
Raleigh, NC 27608

DRAWN BY \_\_\_\_\_ DATE 01/29/2024

PROJECT NO. 20220400 SCALE As indicated

DRAWING NAME

AUDIO-VIDEO EQUIPMENT RACK DETAILS

FLOOR/SECTION PHASE \_\_\_\_\_ DRAWING NO. \_\_\_\_\_

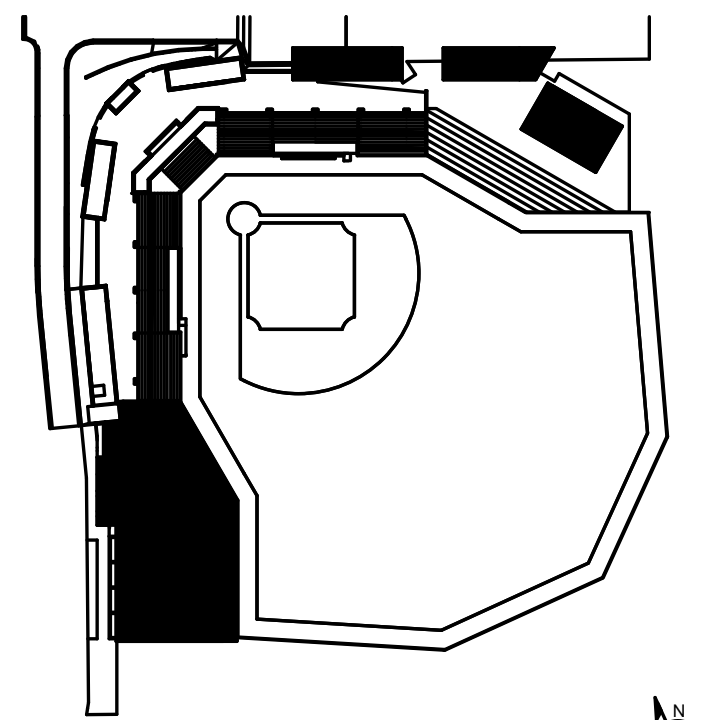
CD

ES0.90



SCO PROJECT NO. 22-24384-01A  
NC STATE PROJ. NO. 202120015

KEY PLAN



PROJECT AREA

REVISIONS

NO.	BY	DESCRIPTION	DATE
A	EC	PACKAGE A - LEFT & RIGHT FIELD ADDITIONS	01/31/2024
	EC	FIELD SERVICE BUILDING	10/09/2023

**NC STATE UNIVERSITY**

**DOAK FIELD ENHANCEMENT**  
1081 Varsity Dr  
Raleigh, NC 27608

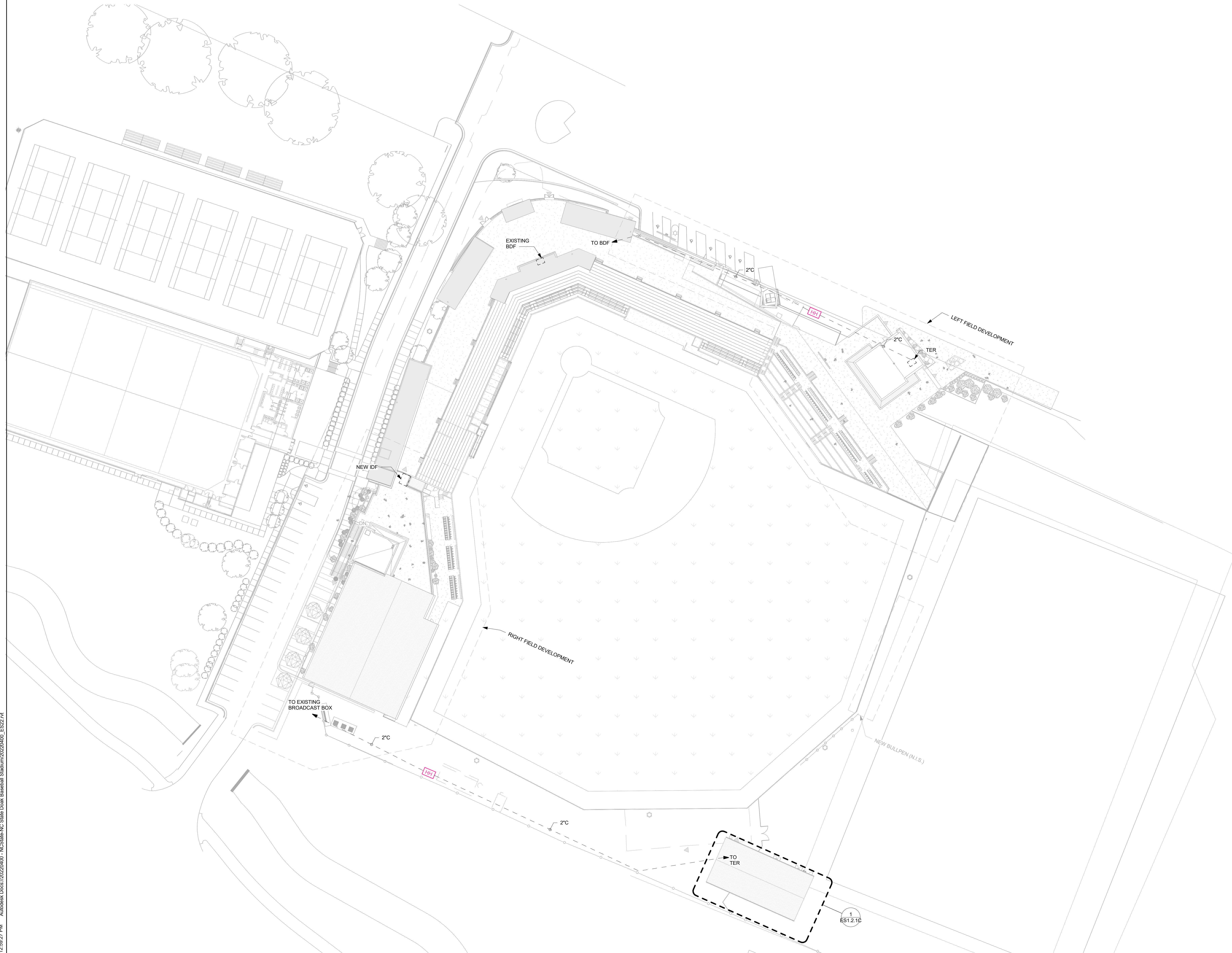
DRAWN BY: WJHW DATE: 01/29/2024

PROJECT NO. 20220400 SCALE: 1/32" = 1'-0"

DRAWING NAME: SITE PLAN

FLOOR/SECTION PHASE: DRAWING NO.

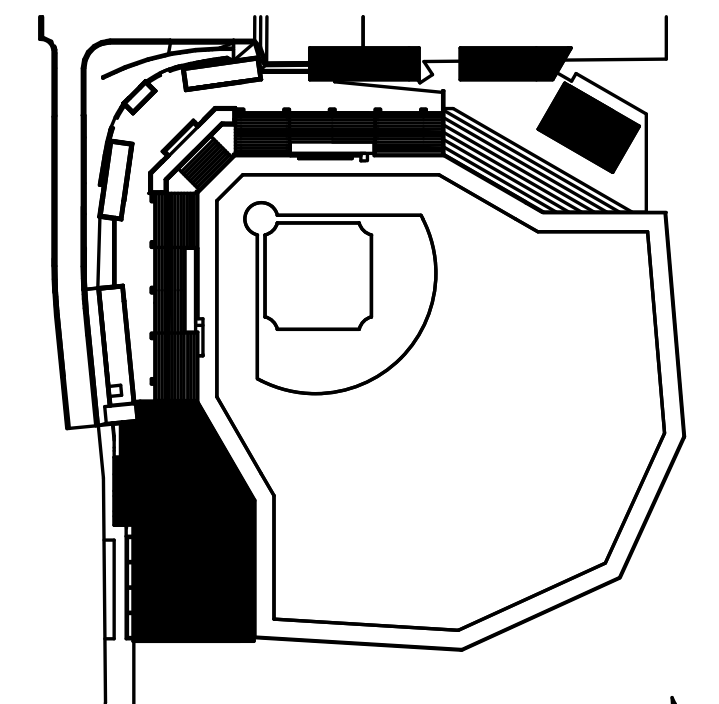
CD ES1.0.1





SCO PROJECT NO. 22-24384-01A  
NC STATE PROJ. NO. 202120015

KEY PLAN



PROJECT AREA

REVISIONS

NO.	BY	DESCRIPTION	DATE
A	EC	PACKAGE A - LEFT & RIGHT FIELD ADDITIONS	01/31/2024

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1081 Varsity Dr  
Raleigh, NC 27606

DRAWN BY WJHW DATE 01/29/2024

PROJECT NO. 20220400 SCALE As indicated

DRAWING NAME

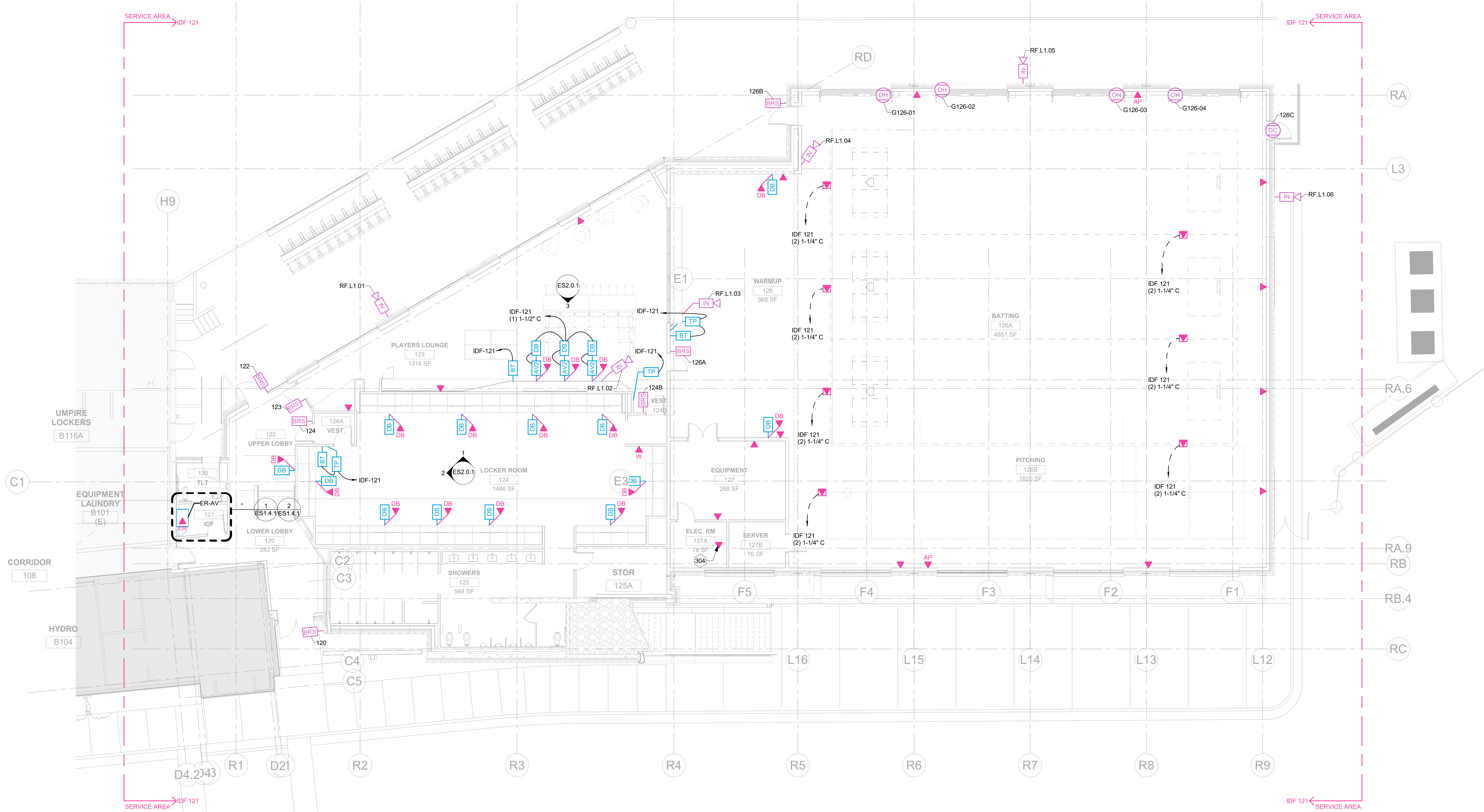
LEVEL 1 RIGHT FIELD FLOOR PLAN

FLOOR/SECTION PHASE DRAWING NO.

CD ES1.1

**GENERAL NOTES**  
1. ALL NETWORK DEVICES IN THIS AREA WILL BE SERVED FROM IDF 121.

**KEYNOTES**  
304 COORDINATE LOCATION WITH ELECTRICAL PANEL. PROVIDE A CONTINUOUS CONDUIT PATHWAY WITHIN THIS SPACE.



1 ES\_L1 - FIRST FLOOR PLAN - TRAINING FACILITY  
SCALE: 1/8" = 1'-0"

1/25/2024 12:59:36 PM Autodesk Docs/20220400 - NCState-NC State Doak Field Baseball Stadium/20220400\_ES1.1.rvt

**GENERAL NOTES**

1. ALL NETWORK DEVICES IN THIS AREA WILL BE SERVED FROM IDF 121.

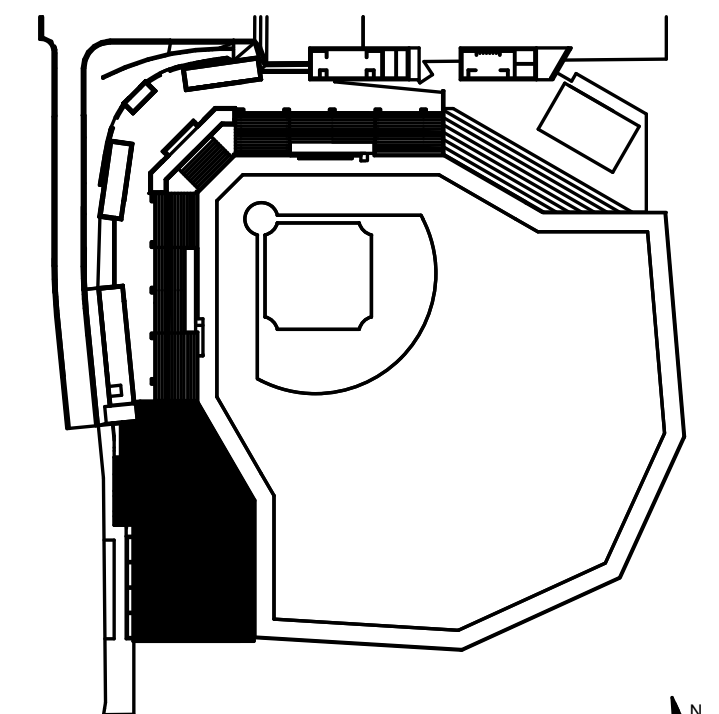
**KEYNOTES**

305 COORDINATE LOCATION WITH BUILDING AUTOMATION PANEL. PROVIDE A CONTINUOUS CONDUIT PATHWAY WITHIN THIS SPACE.



SCO PROJECT NO. 22-24384-01A  
NC STATE PROJ. NO. 202120015

KEY PLAN



PROJECT AREA

**REVISIONS**

NO.	BY	DESCRIPTION	DATE
A	EC	PACKAGE A - LEFT & RIGHT FIELD ADDITIONS	01/31/2024

**NC STATE UNIVERSITY**

**DOAK FIELD ENHANCEMENT**  
1081 Varsity Dr  
Raleigh, NC 27606

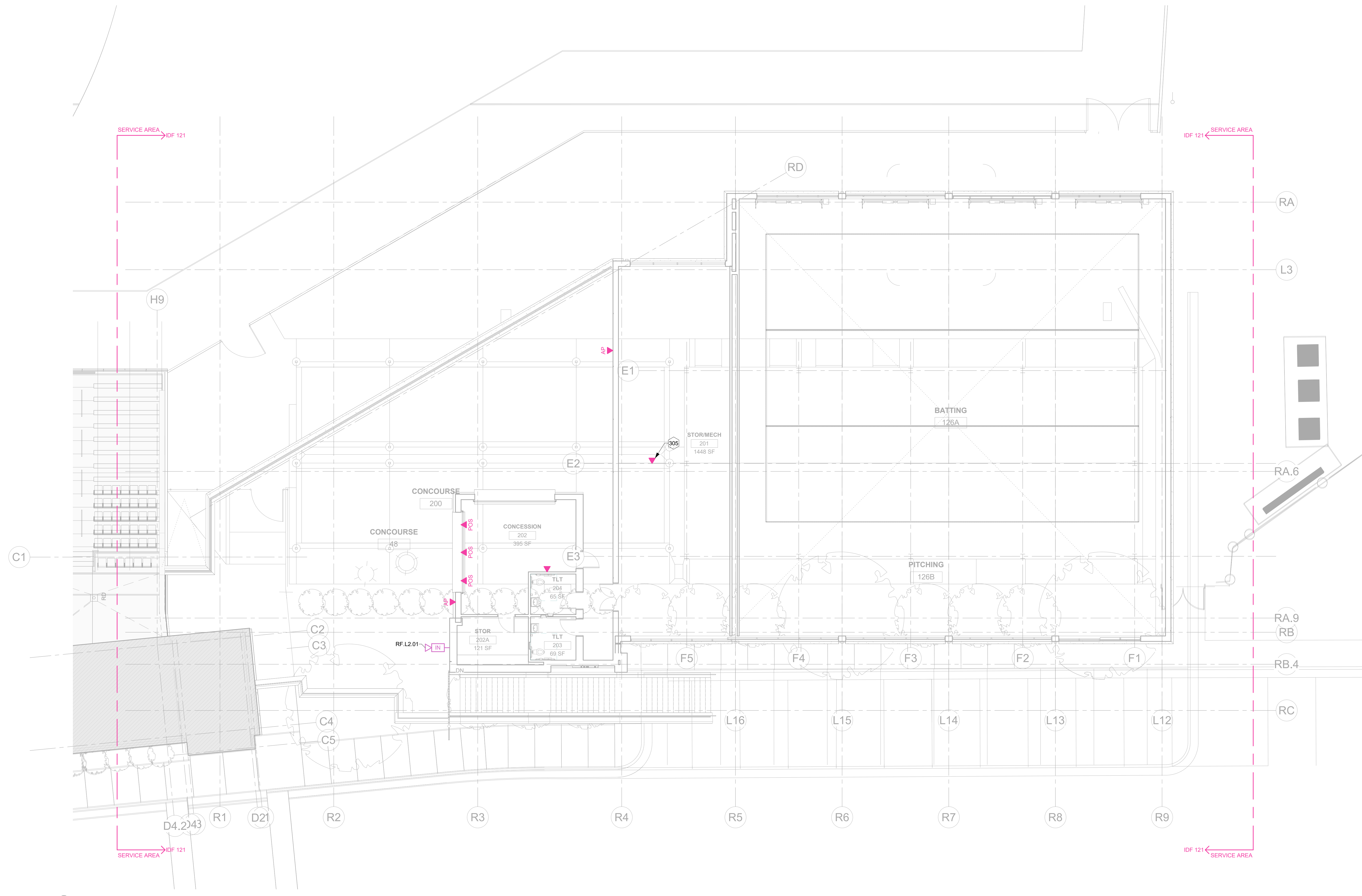
DRAWN BY: WJHW DATE: 01/29/2024

PROJECT NO.: 20220400 SCALE: As indicated

DRAWING NAME: LEVEL 2 RIGHT FIELD FLOOR PLAN

FLOOR/SECTION PHASE: DRAWING NO.:

**CD ES1.2.1A**



1 ES\_L2 - SECOND FLOOR PLAN - CONCOURSE / RIGHT FIELD  
SCALE: 1/8" = 1'-0"

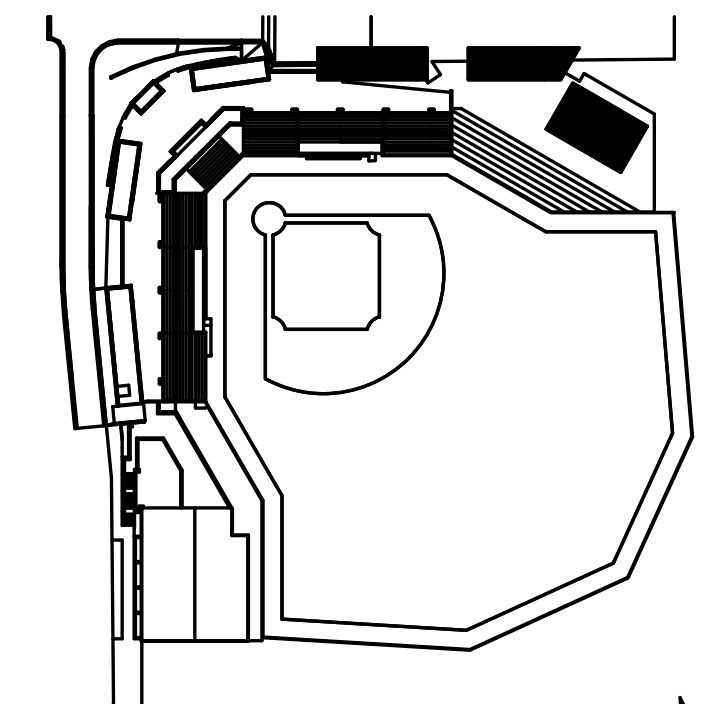


KEYNOTES	
402	PROVIDE (1) 120V-20A DEDICATED CIRCUIT IN WALL MOUNT LOCK POWER SUPPLY ENCLOSURE. PROVIDE (1) 120V-20A DEDICATED CIRCUIT IN WALL MOUNT DOOR CONTROLLER ENCLOSURE.
403	PROVIDE INTERFACE TO ACCESS CONTROL SYSTEM FOR EMERGENCY LOCKDOWN OF ALL ACCESS CONTROLLED OPENINGS UPON ACTIVATION OF THE PANIC BUTTON.



SCO PROJECT NO. 22-24384-01A  
NC STATE PROJ. NO. 202120015

KEY PLAN



PROJECT AREA

REVISIONS

NO.	BY	DESCRIPTION	DATE
A	EC	PACKAGE A - LEFT & RIGHT FIELD ADDITIONS	01/31/2024

**NC STATE UNIVERSITY**

**DOAK FIELD ENHANCEMENT**  
1081 Varsity Dr  
Raleigh, NC 27608

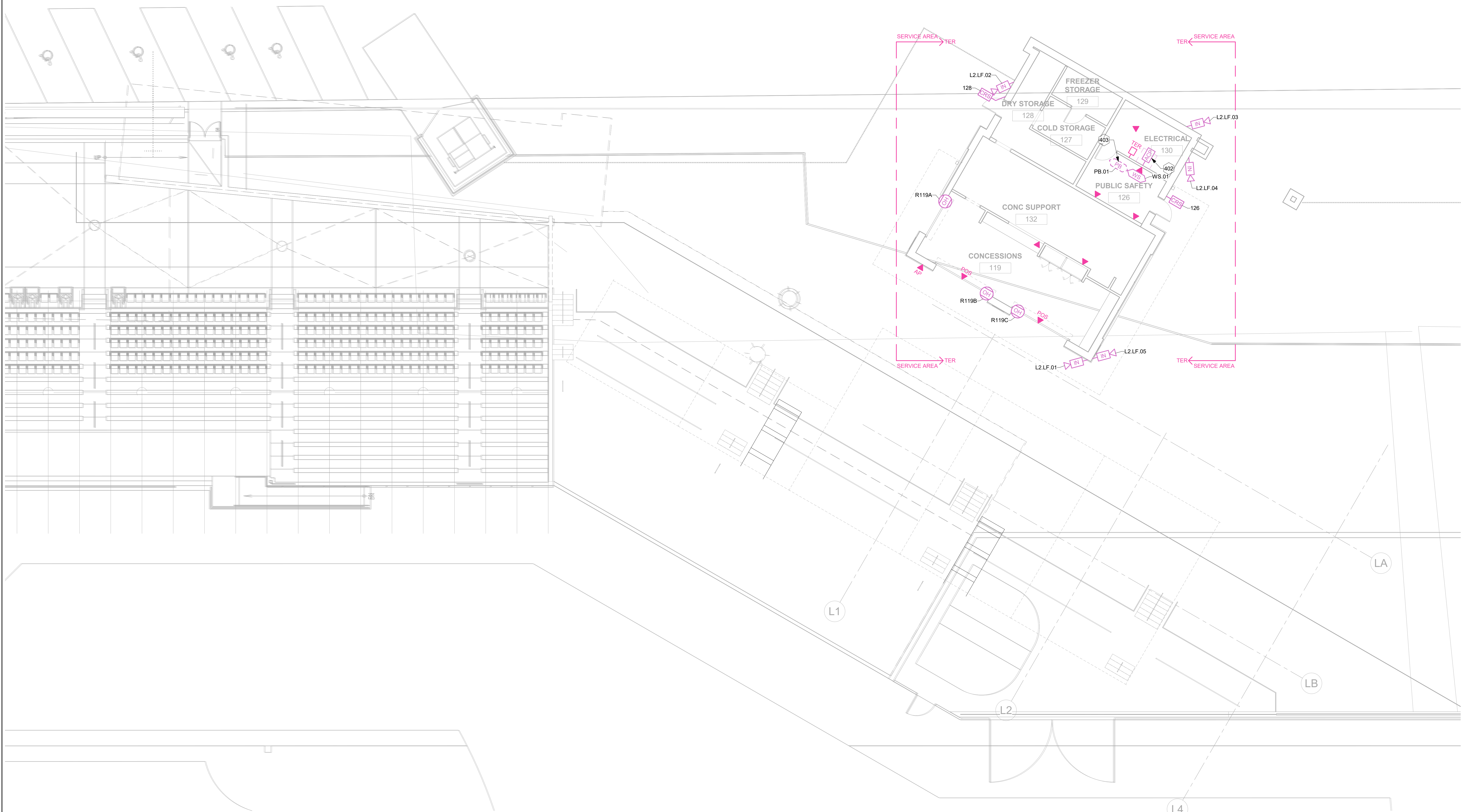
DRAWN BY: WJHW DATE: 01/29/2024

PROJECT NO. 20220400 SCALE: 1/8" = 1'-0"

DRAWING NAME: LEVEL 2 LEFT FIELD FLOOR PLAN

FLOOR/SECTION PHASE: DRAWING NO.

**CD ES1.2.2B**



1 ES\_L2 - SECOND FLOOR PLAN - CONCOURSE / LEFT FIELD  
SCALE: 1/8" = 1'-0"

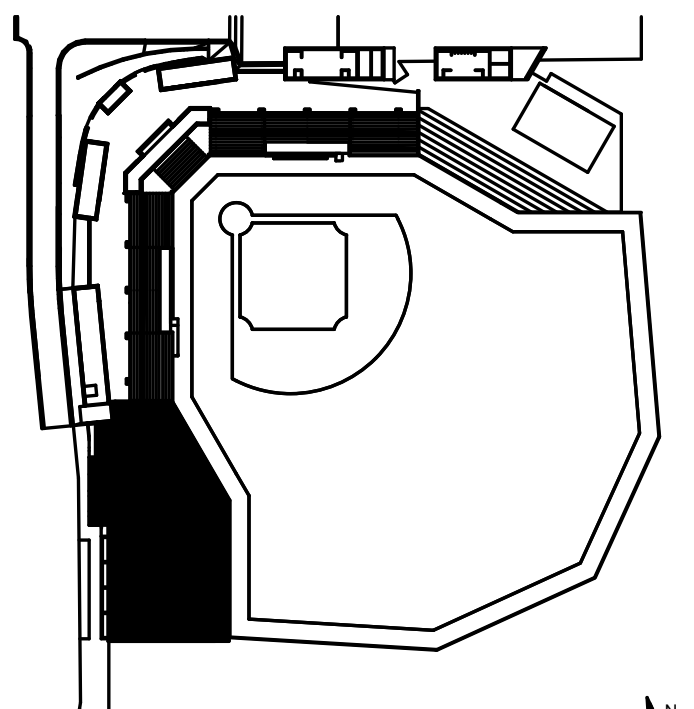
GENERAL NOTES

1. ALL NETWORK DEVICES IN THIS AREA WILL BE SERVED FROM IDF 121.



SCO PROJECT NO. 22-24384-01A  
NC STATE PROJ. NO. 202120015

KEY PLAN



PROJECT AREA

REVISIONS

NO.	BY	DESCRIPTION	DATE
A	EC	PACKAGE A - LEFT & RIGHT FIELD ADDITIONS	01/31/2024

**NC STATE UNIVERSITY**

**DOAK FIELD ENHANCEMENT**  
1081 Varsity Dr  
Raleigh, NC 27608

DRAWN BY: WJHW DATE: 01/29/2024

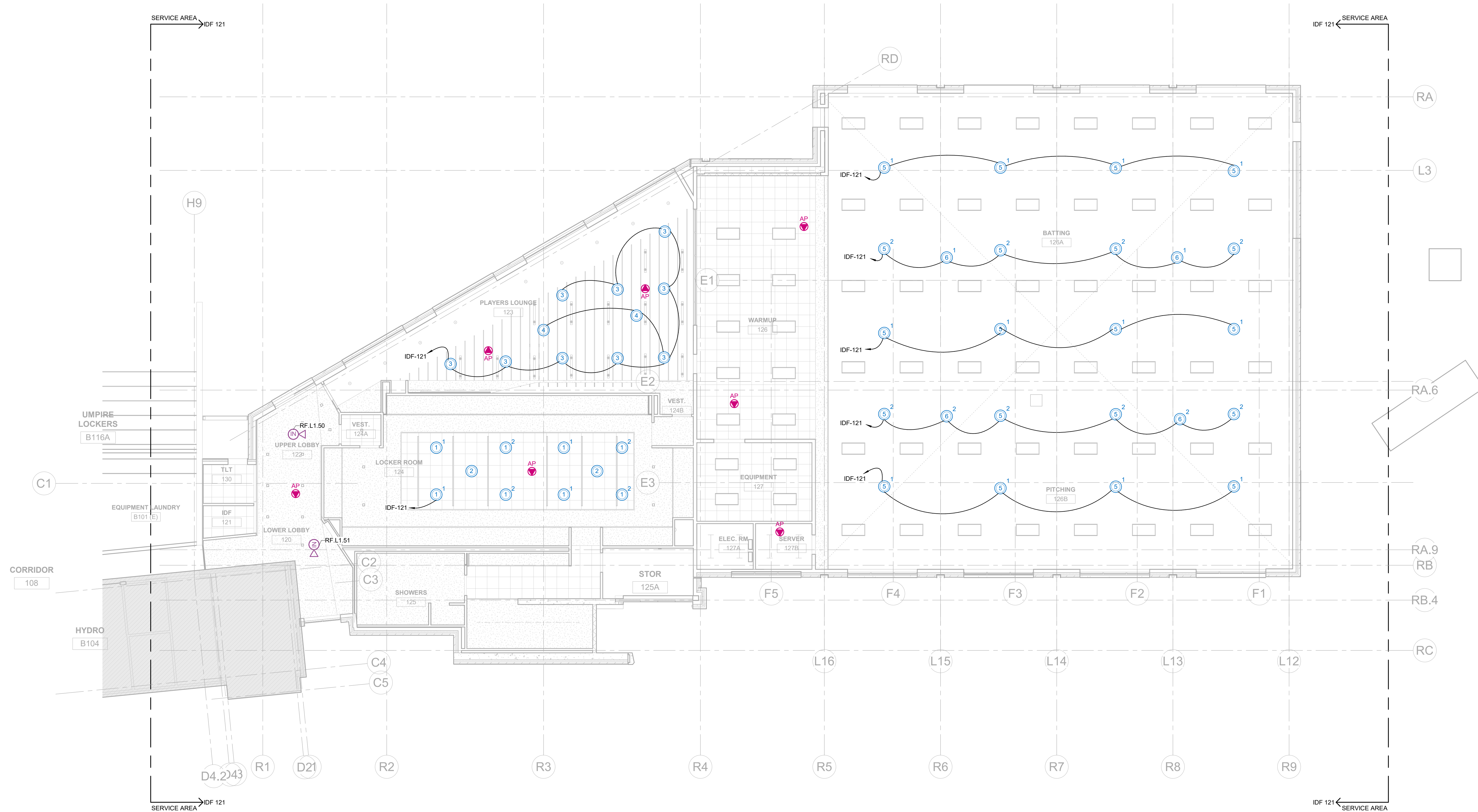
PROJECT NO.: 20220400 SCALE: As indicated

DRAWING NAME

RCP LEVEL 1 RIGHT FIELD

FLOOR/SECTION PHASE DRAWING NO.

**CD ES1.3.1**



1 ES\_L1 RIGHT FIELD REFLECTED CEILING PLAN  
SCALE: 1/8" = 1'-0"

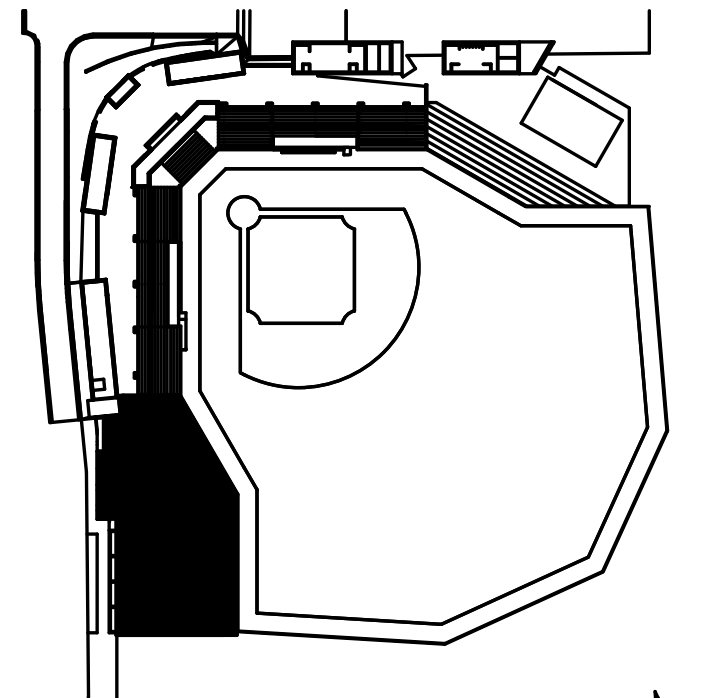
GENERAL NOTES

1. ALL NETWORK DEVICES IN THIS AREA WILL BE SERVED FROM IDF 121.



SCO PROJECT NO. 22-24384-01A  
NC STATE PROJ. NO. 202120015

KEY PLAN



PROJECT AREA

REVISIONS

NO.	BY	DESCRIPTION	DATE
A	EC	PACKAGE A - LEFT & RIGHT FIELD ADDITIONS	01/31/2024

NC STATE UNIVERSITY

DOAK FIELD ENHANCEMENT  
1081 Varsity Dr  
Raleigh, NC 27606

DRAWN BY WJHW DATE 01/29/2024

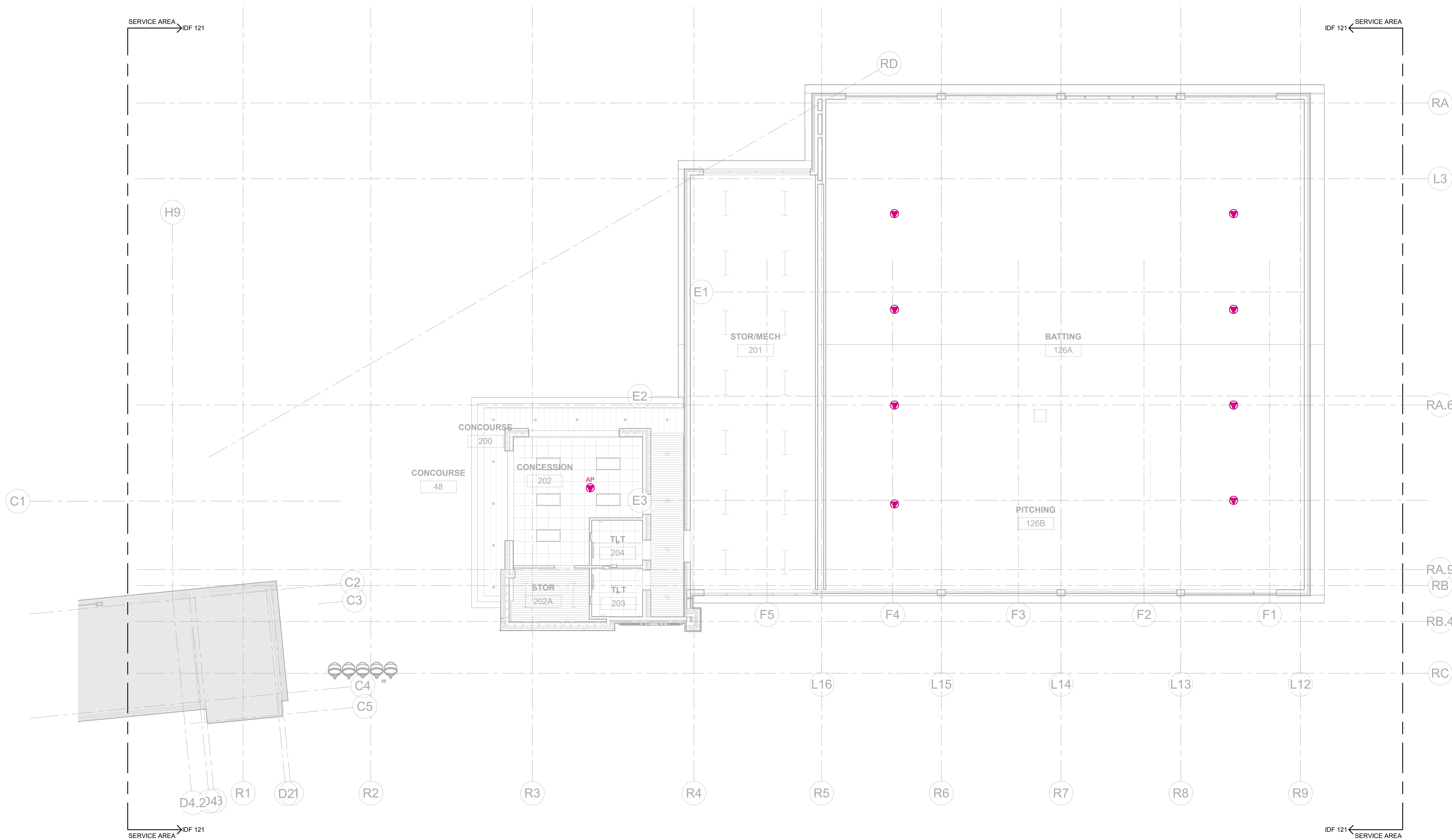
PROJECT NO. 20220400 SCALE As indicated

DRAWING NAME

RCP LEVEL 2 RIGHT FIELD

FLOOR/SECTION PHASE DRAWING NO.

CD ES1.3.2A

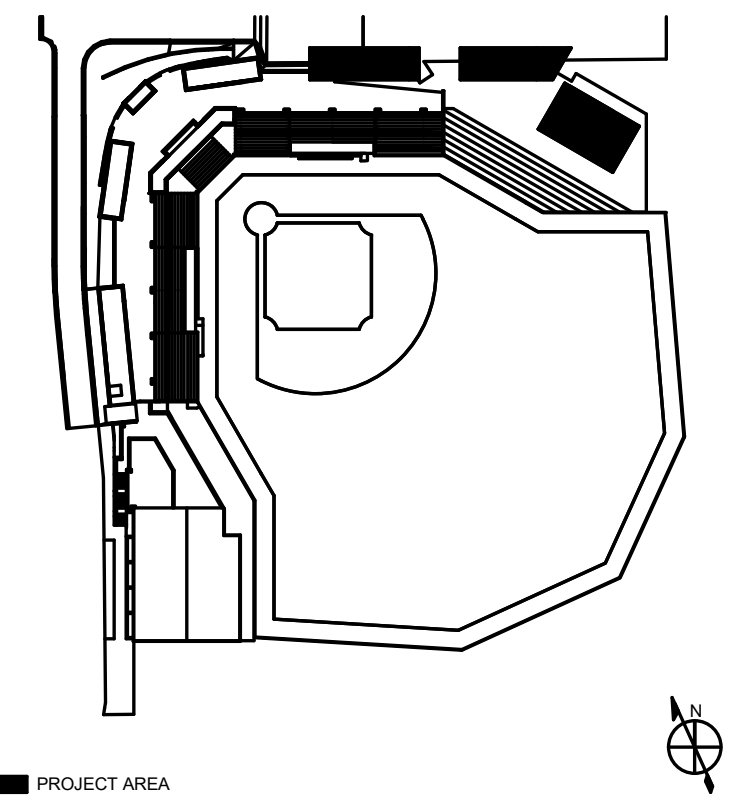


1 ES L2 RIGHT FIELD REFLECTED CEILING PLAN  
SCALE: 1/8" = 1'-0"



SCO PROJECT NO. 22-24384-01A  
NC STATE PROJ. NO. 202120015

KEY PLAN



1 ES L2 LEFT FIELD REFLECTED CEILING PLAN  
SCALE: 1/8" = 1'-0"

REVISIONS

NO.	BY	DESCRIPTION	DATE
A	EC	PACKAGE A - LEFT & RIGHT FIELD ADDITIONS	01/31/2024

**NC STATE UNIVERSITY**

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1081 Varsity Dr  
Raleigh, NC 27608

DRAWN BY: WJHW DATE: 01/29/2024

PROJECT NO.: 20220400 SCALE: 1/8" = 1'-0"

DRAWING NAME:

RCP LEVEL 2 LEFT FIELD

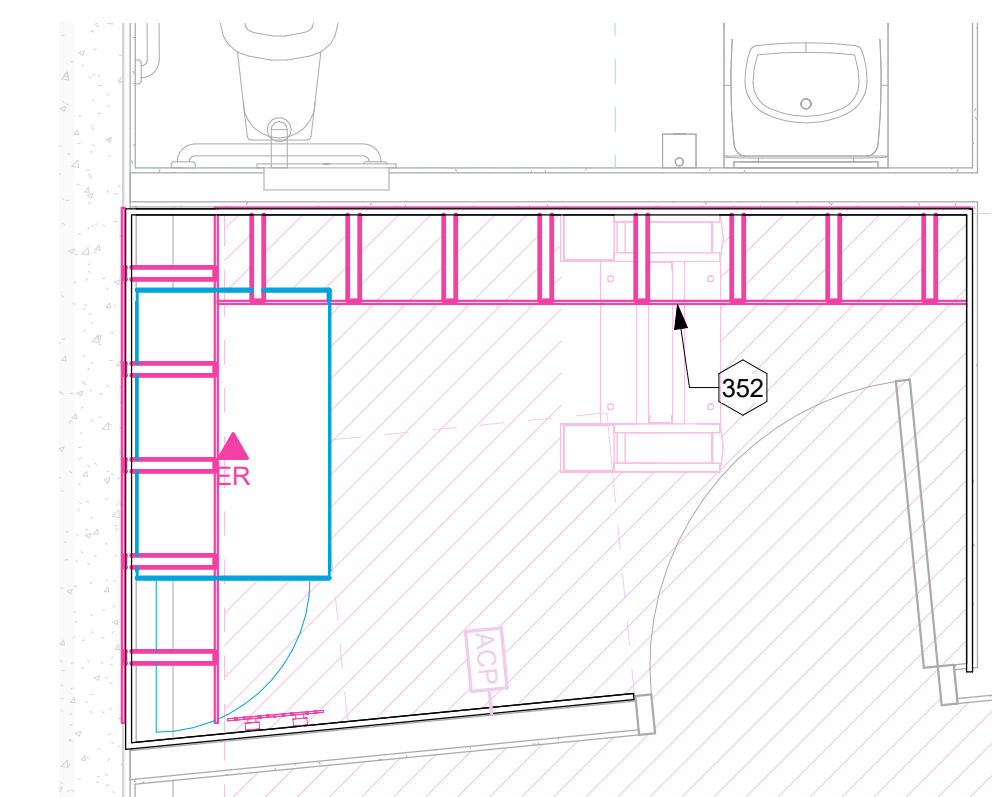
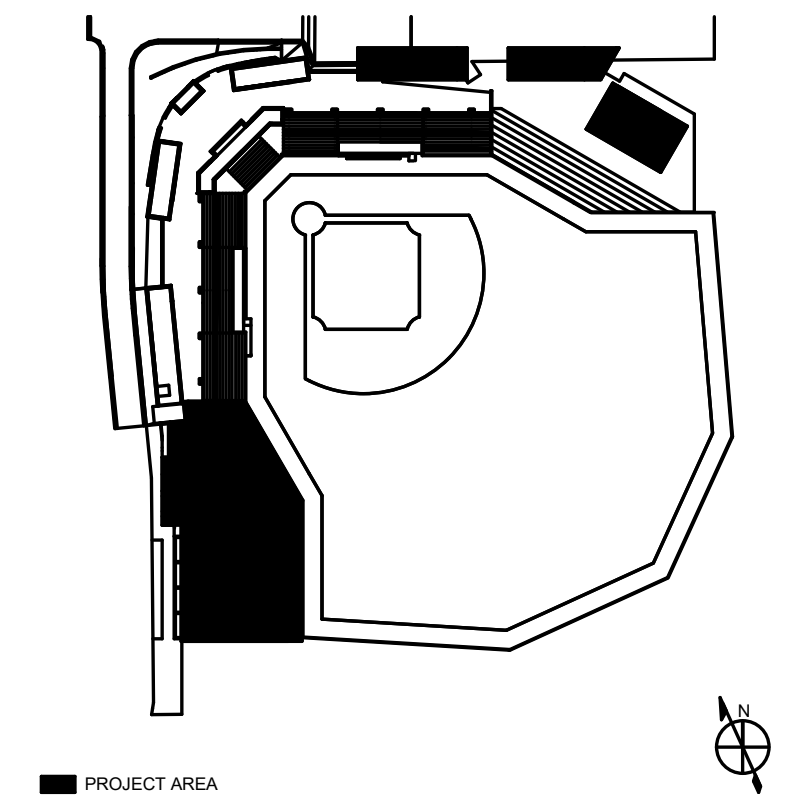
FLOOR/SECTION PHASE DRAWING NO.

CD ES1.3.2B

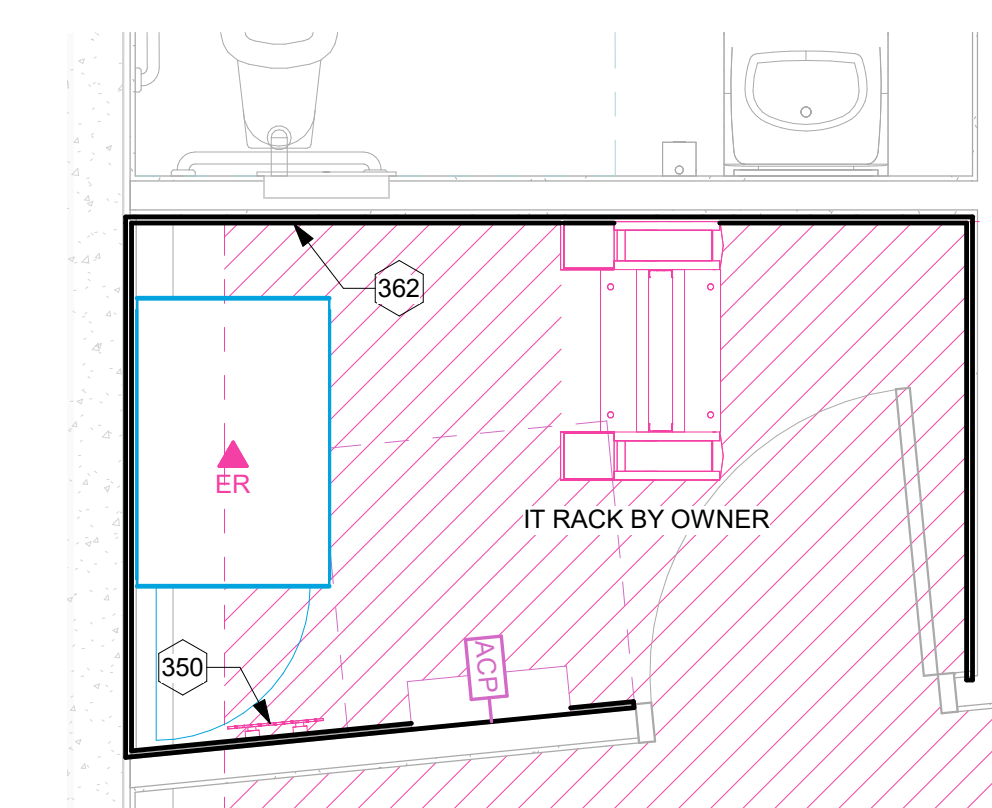


SCO PROJECT NO. 22-24384-01A  
NC STATE PROJ. NO. 202120015

KEY PLAN



2 ENLARGED FLOOR PLAN - HIGH  
SCALE: 1/2" = 1'-0"



1 ENLARGED FLOOR PLAN  
SCALE: 1/2" = 1'-0"

REVISIONS

NO.	BY	DESCRIPTION	DATE
A	EC	PACKAGE A - LEFT & RIGHT FIELD ADDITIONS	01/31/2024

**NC STATE UNIVERSITY**

**DOAK FIELD ENHANCEMENT**  
1081 Varsity Dr  
Raleigh, NC 27608

DRAWN BY Author DATE 01/29/2024

PROJECT NO. 20220400 SCALE 1/2" = 1'-0"

DRAWING NAME

ENLARGED PLANS

FLOOR/SECTION PHASE DRAWING NO.

CD

ES1.4.1



SCO PROJECT NO. 22-24384-01A  
NC STATE PROJ. NO. 202120015

KEY PLAN

REVISIONS

NO.	BY	DESCRIPTION	DATE
A	EC	PACKAGE A - LEFT & RIGHT FIELD ADDITIONS	01/31/2024

**NC STATE UNIVERSITY**

**DOAK FIELD ENHANCEMENT**  
1081 Varsity Dr  
Raleigh, NC 27606

DRAWN BY \_\_\_\_\_ Author DATE 01/29/2024

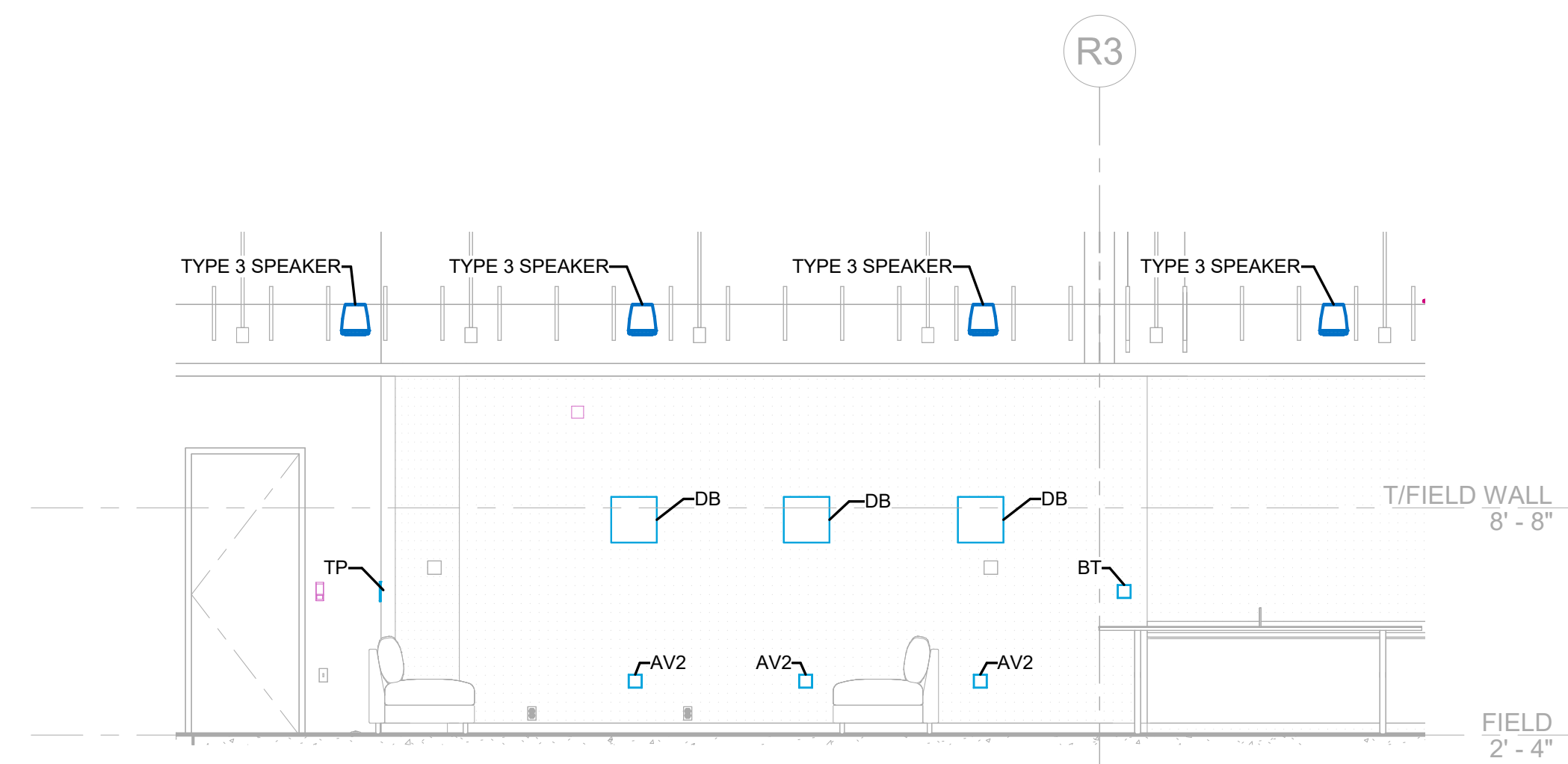
PROJECT NO. 20220400 SCALE 1/4" = 1'-0"

DRAWING NAME

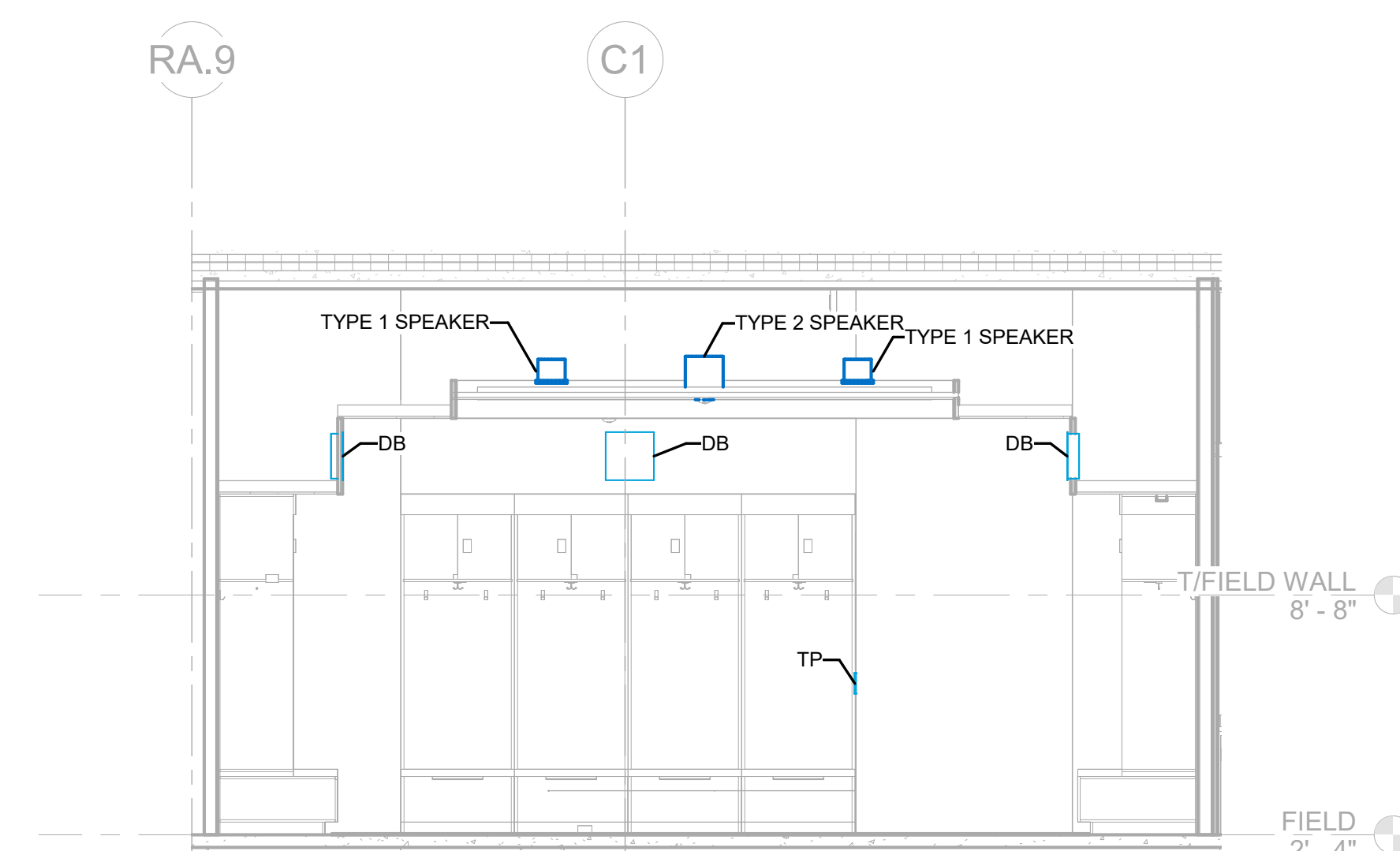
ELEVATIONS

FLOOR/SECTION PHASE DRAWING NO.

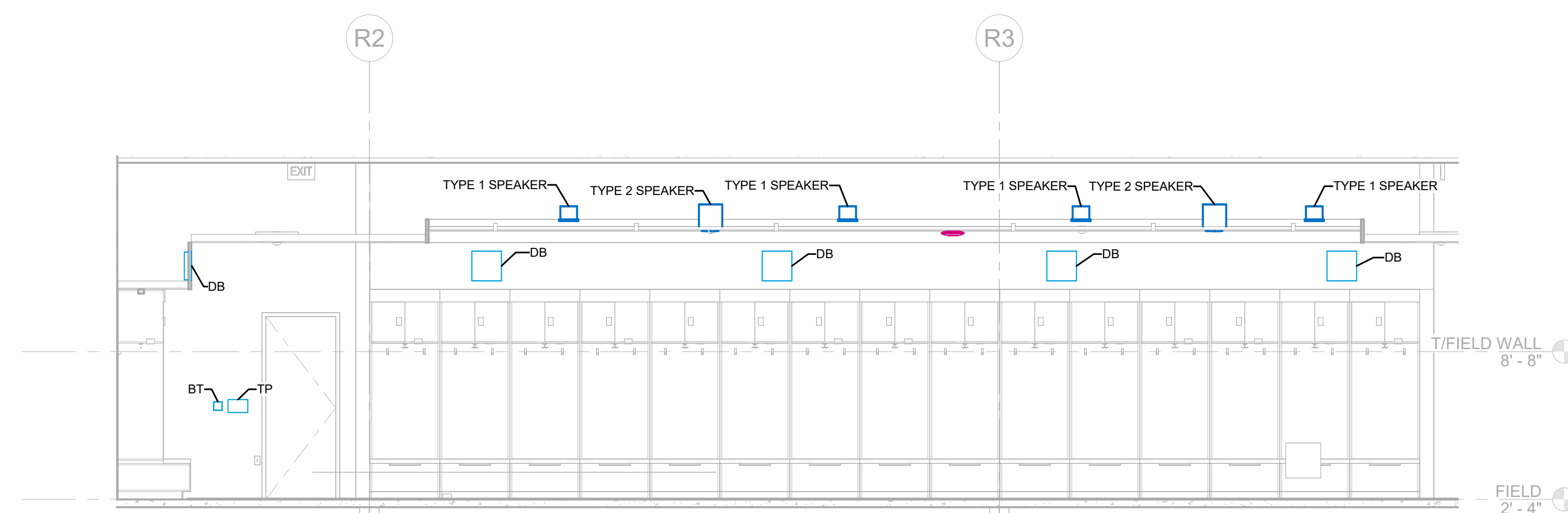
CD ES2.0.1



3 PLAYERS LOUNGE PLAN SOUTH ELEVATION  
SCALE: 1/4" = 1'-0"



2 LOCKER ROOM PLAN WEST ELEVATION  
SCALE: 1/4" = 1'-0"



1 LOCKER ROOM PLAN NORTH ELEVATION  
SCALE: 1/4" = 1'-0"



SCO PROJECT NO. 22-24384-01A  
NC STATE PROJ. NO. 202120015

KEY PLAN

REVISIONS			
A	EC	PACKAGE A - LEFT & RIGHT FIELD ADDITIONS	01/31/2024
NO.	BY	DESCRIPTION	DATE

**NC STATE UNIVERSITY**

**DOAK FIELD ENHANCEMENT**  
1081 Varsity Dr  
Raleigh, NC 27606

DRAWN BY Author DATE 01/29/2024

PROJECT NO. 20220400 SCALE As indicated

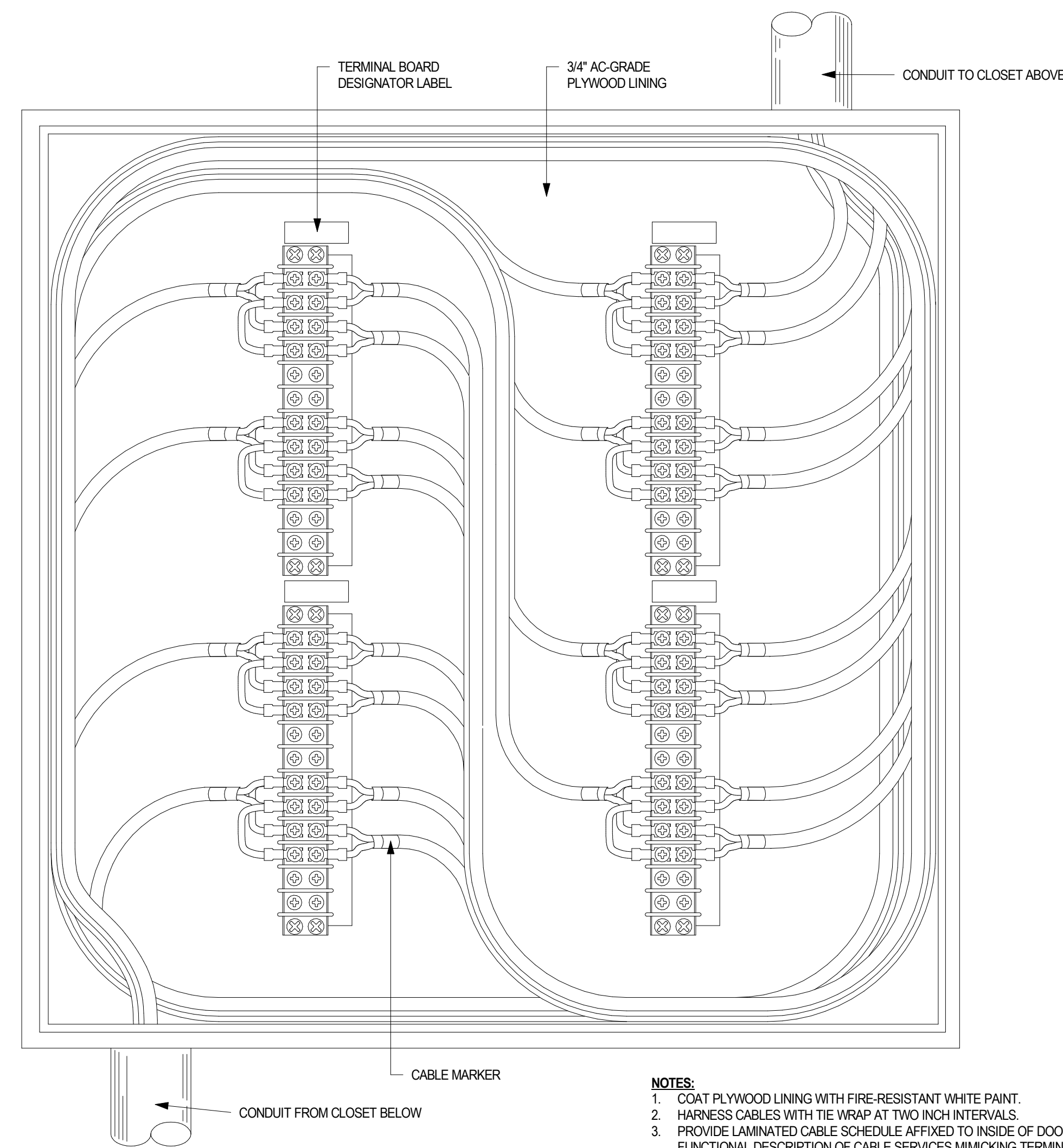
DRAWING NAME

AUDIO-VIDEO FUNCTIONAL LEGEND AND STANDARD DETAILS

FLOOR/SECTION PHASE DRAWING NO.

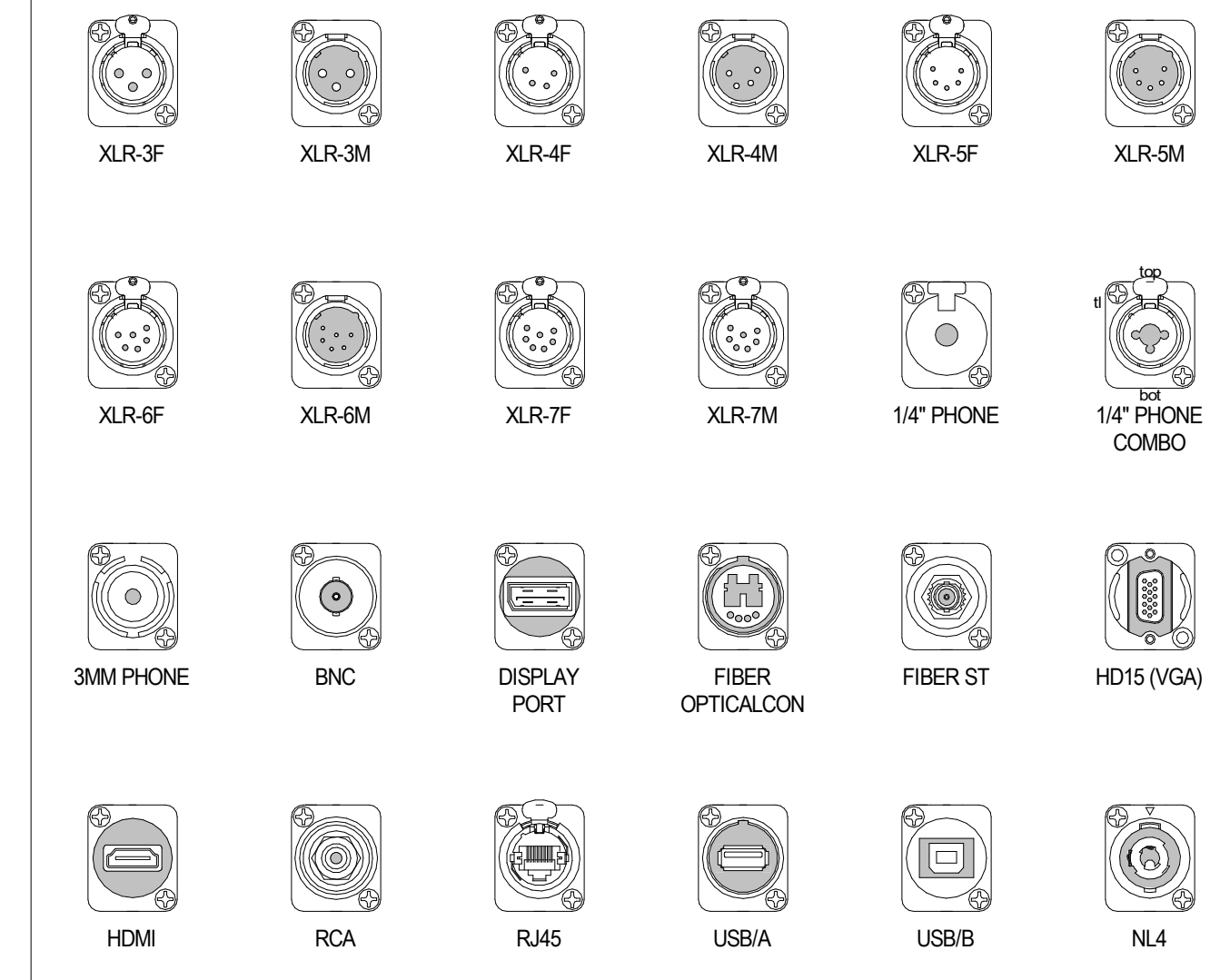
**CD ES11.00**

**SPEAKER JUNCTION BOX TERMINATION DETAILS**

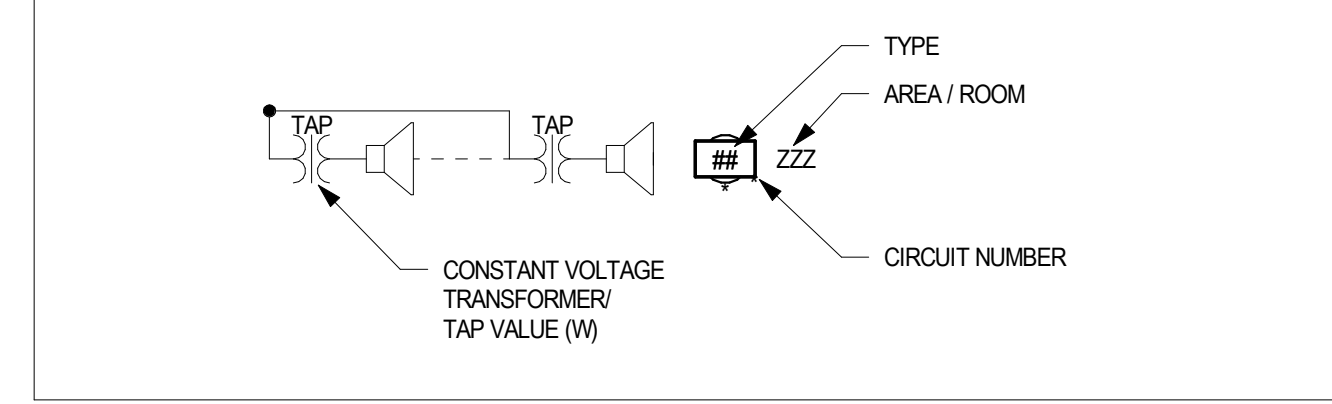


- NOTES:**
1. COAT PLYWOOD LINING WITH FIRE-RESISTANT WHITE PAINT.
  2. HARNESS CABLES WITH THE WRAP AT TWO INCH INTERVALS.
  3. PROVIDE LAMINATED CABLE SCHEDULE AFFIXED TO INSIDE OF DOOR. PROVIDE FUNCTIONAL DESCRIPTION OF CABLE SERVICES MIMICKING TERMINAL BOARD LAYOUT.

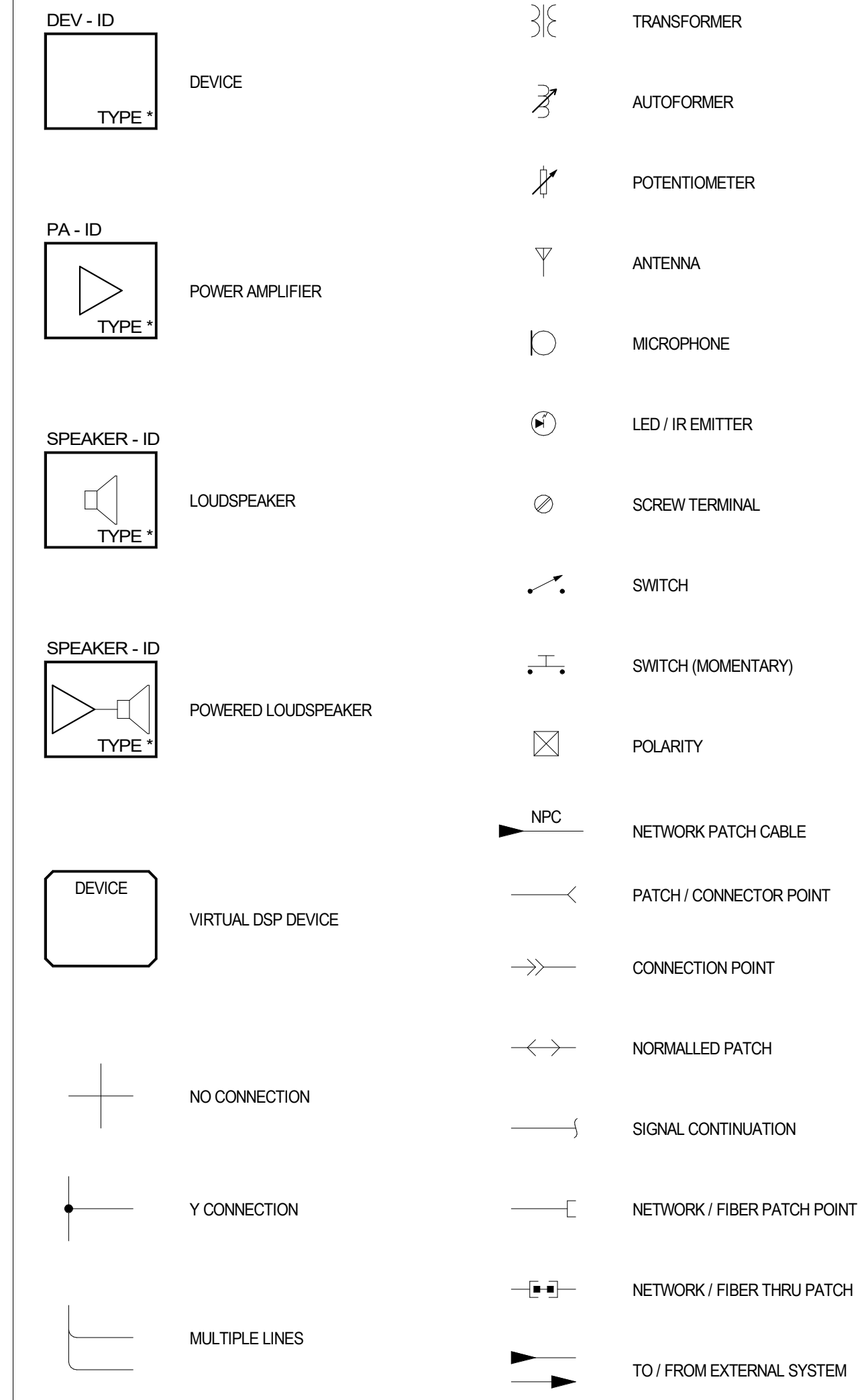
**PANEL SYMBOL LEGEND**



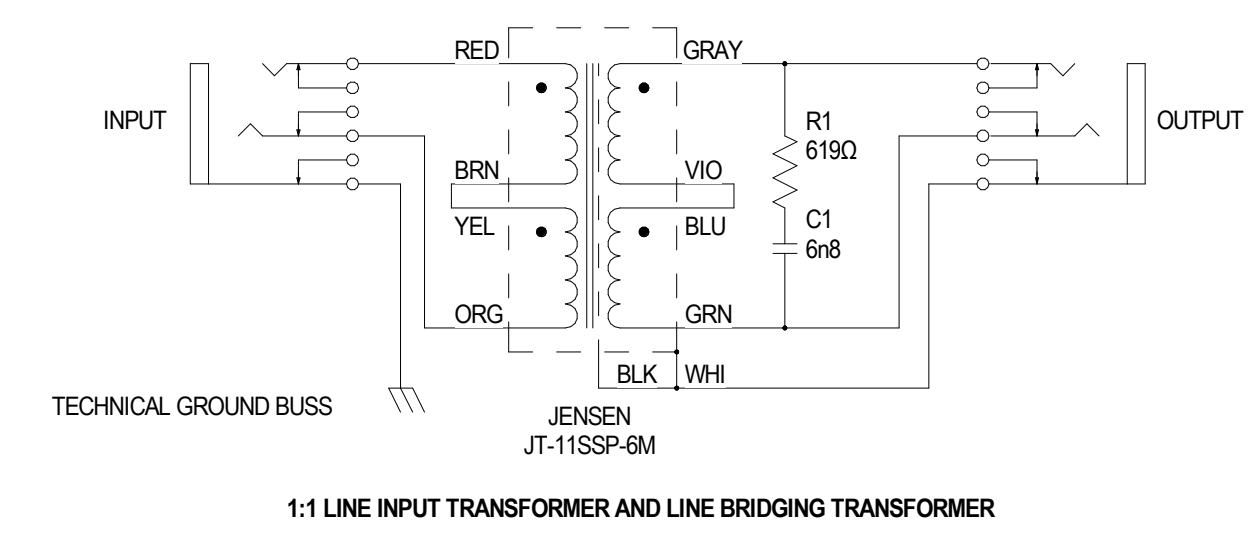
**PARALLELED SPEAKERS DETAIL**



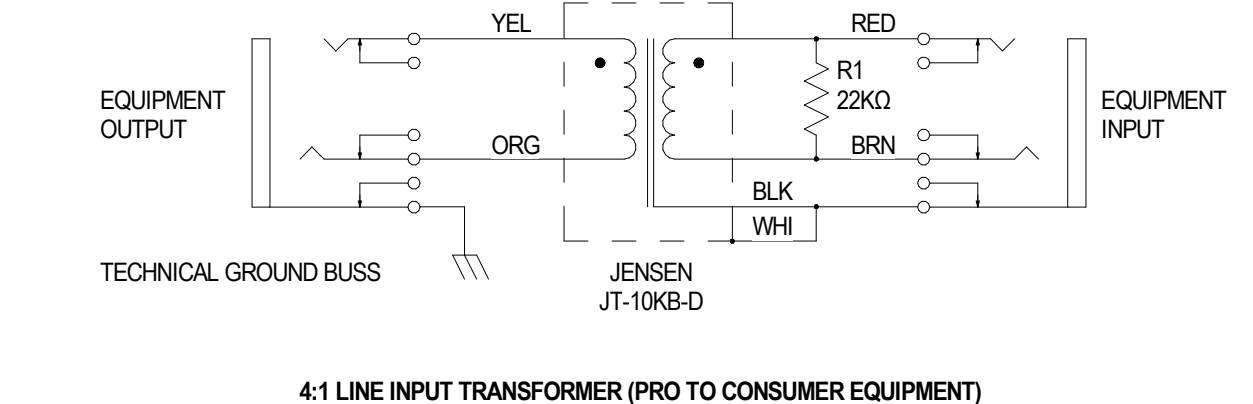
**FUNCTIONAL SYMBOL LEGEND**



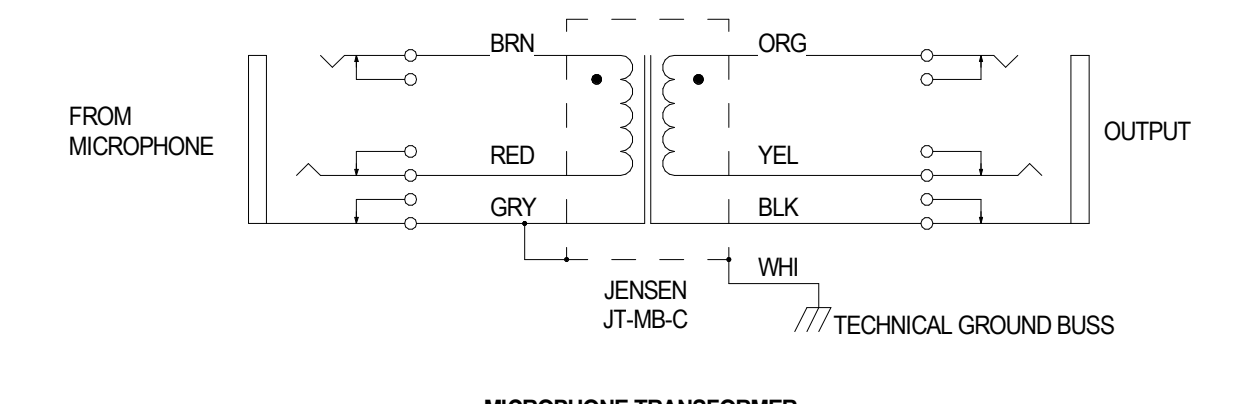
**AUDIO TRANSFORMER WIRING**



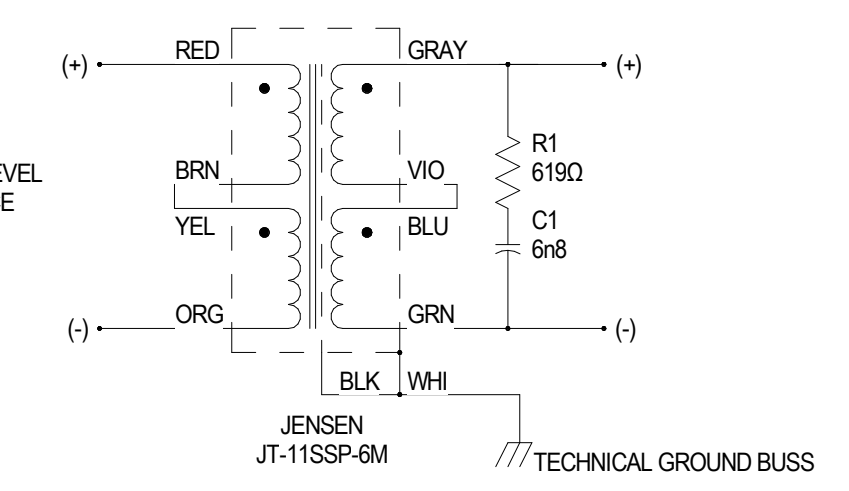
1:1 LINE INPUT TRANSFORMER AND LINE BRIDGING TRANSFORMER



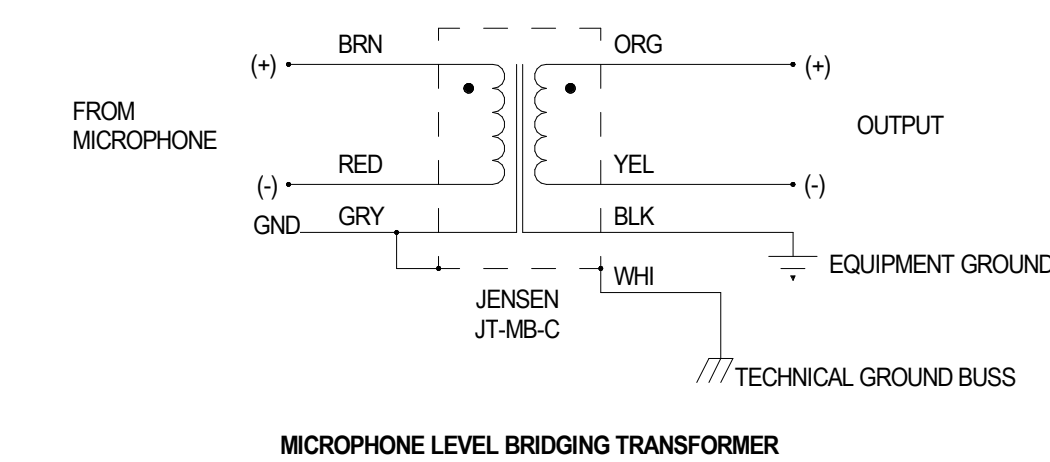
4:1 LINE INPUT TRANSFORMER (PRO TO CONSUMER EQUIPMENT)



MICROPHONE TRANSFORMER

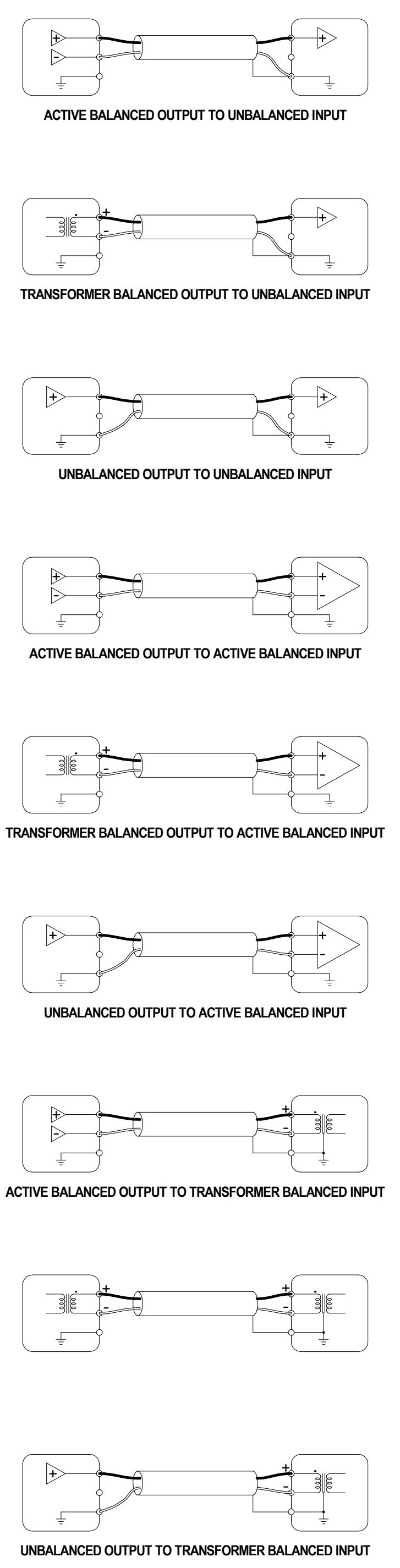


ISOLATION TRANSFORMER

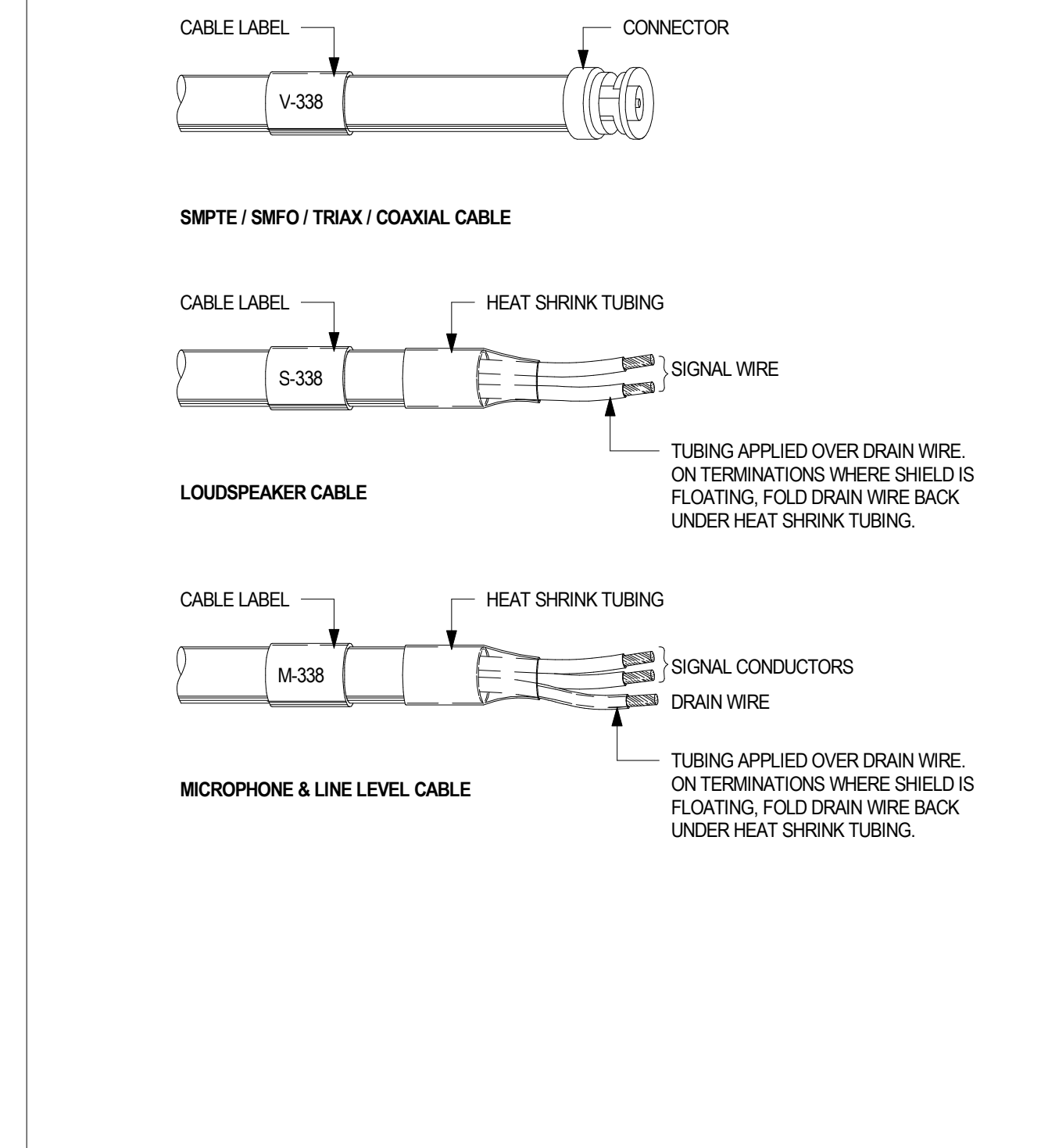


MICROPHONE LEVEL BRIDGING TRANSFORMER

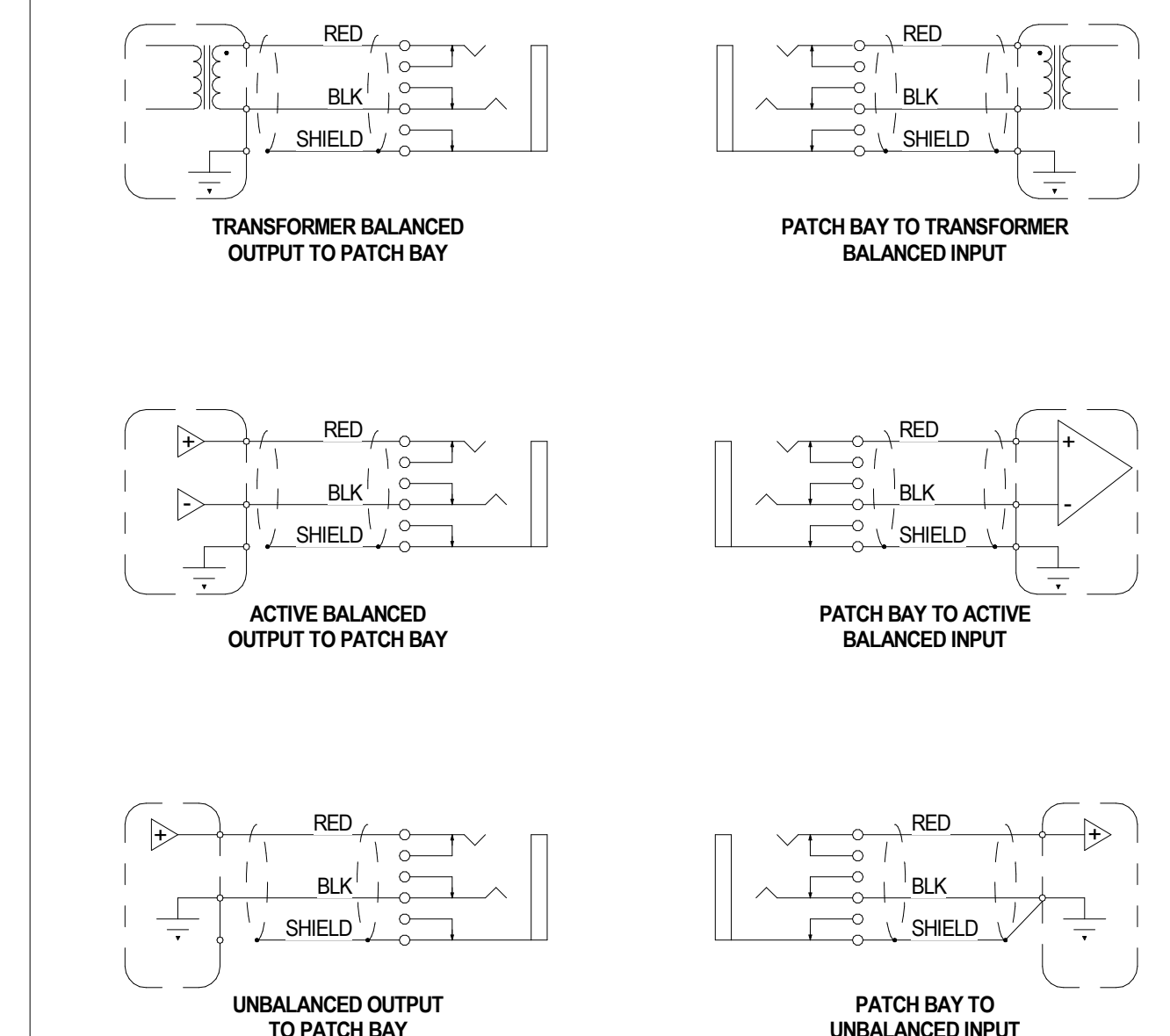
**AUDIO SHIELD CONNECTIONS**



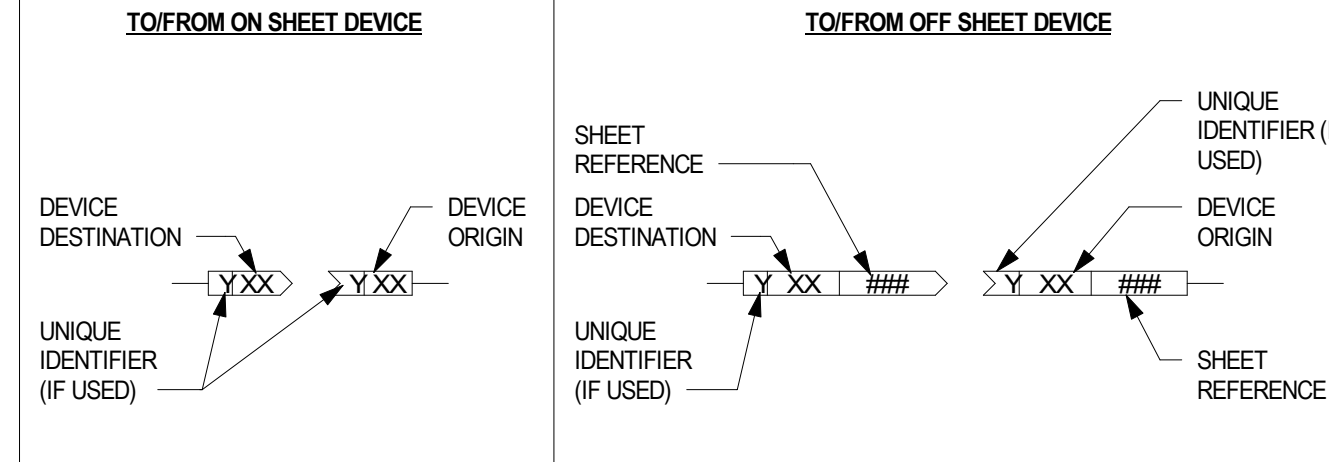
**AV CABLE PREPARATION DETAILS**



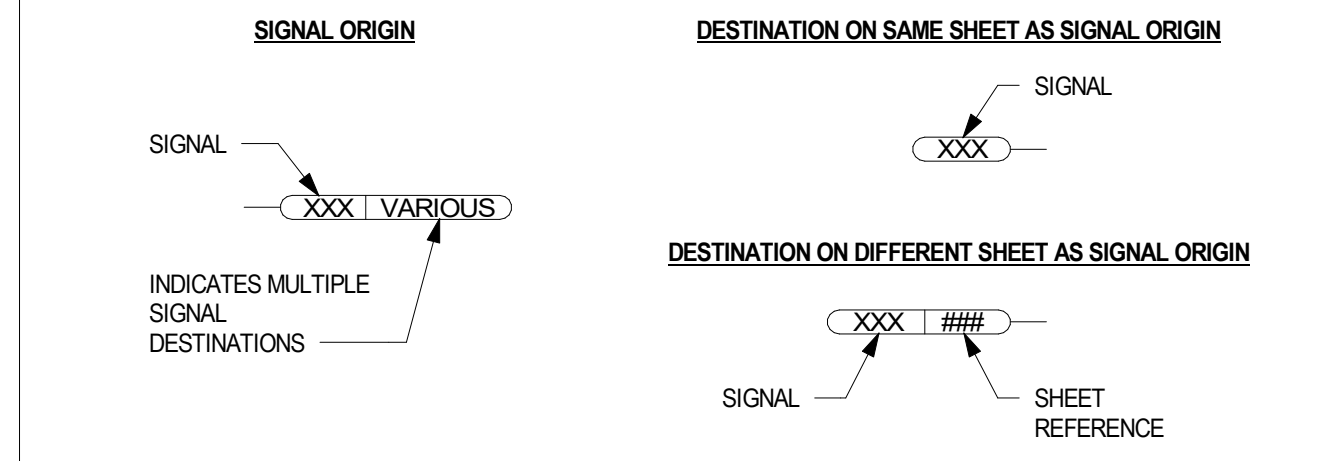
**TYPICAL DEVICE TO PATCHBAY WIRING**



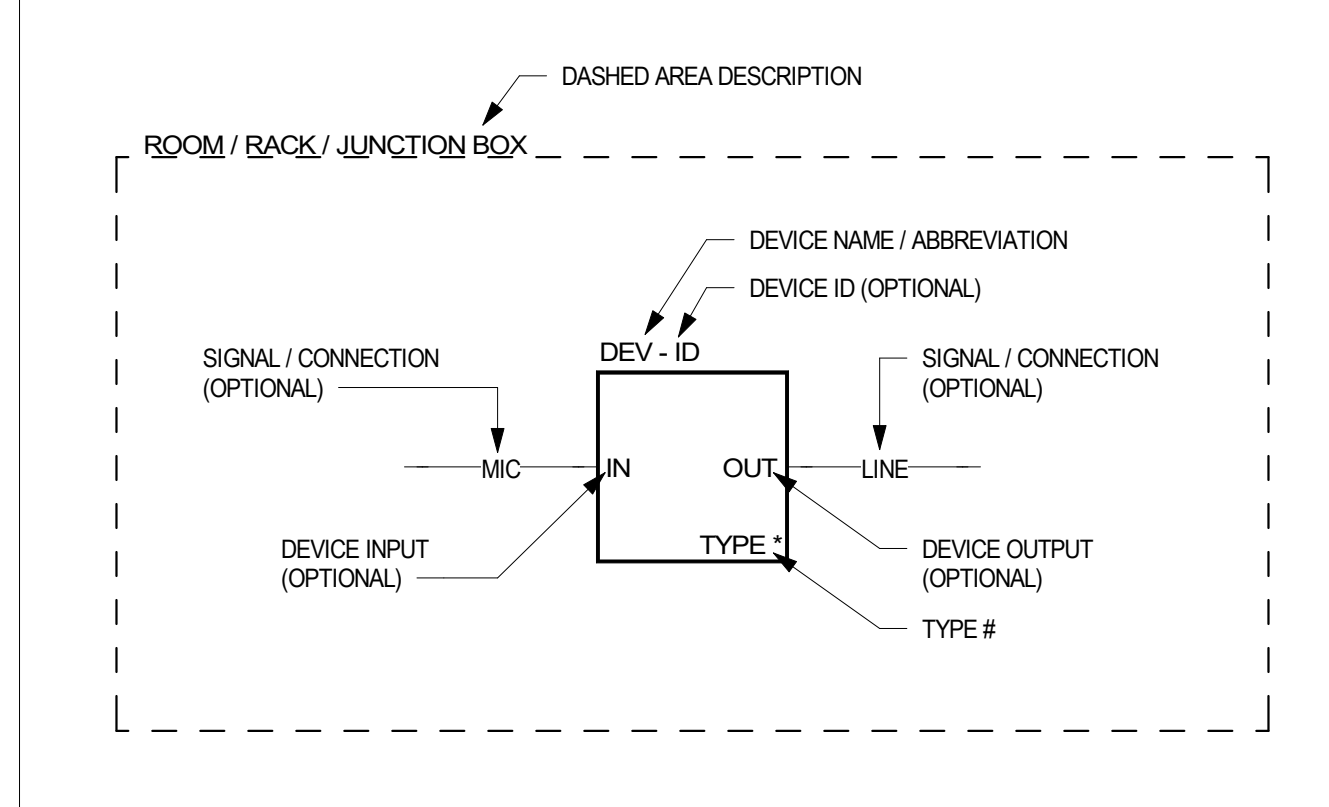
**SIGNAL TO/FROM PHYSICAL DEVICE**



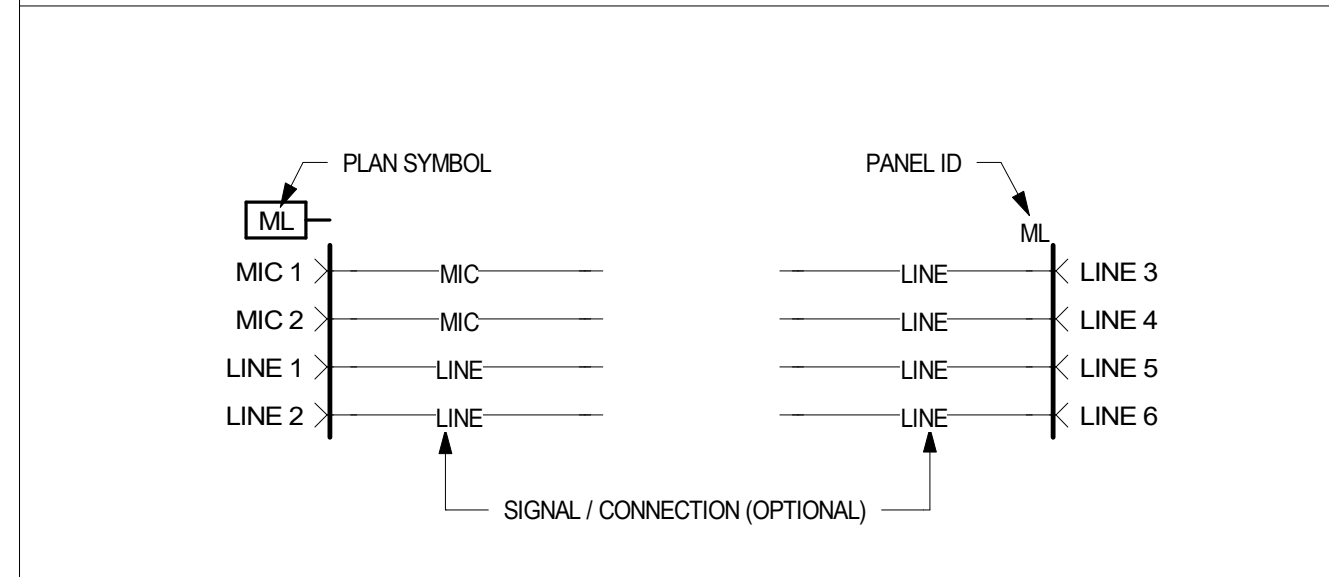
**SIGNAL TO/FROM VIRTUAL DEVICE**



**DEVICE SIGNAL FLOW DETAIL**



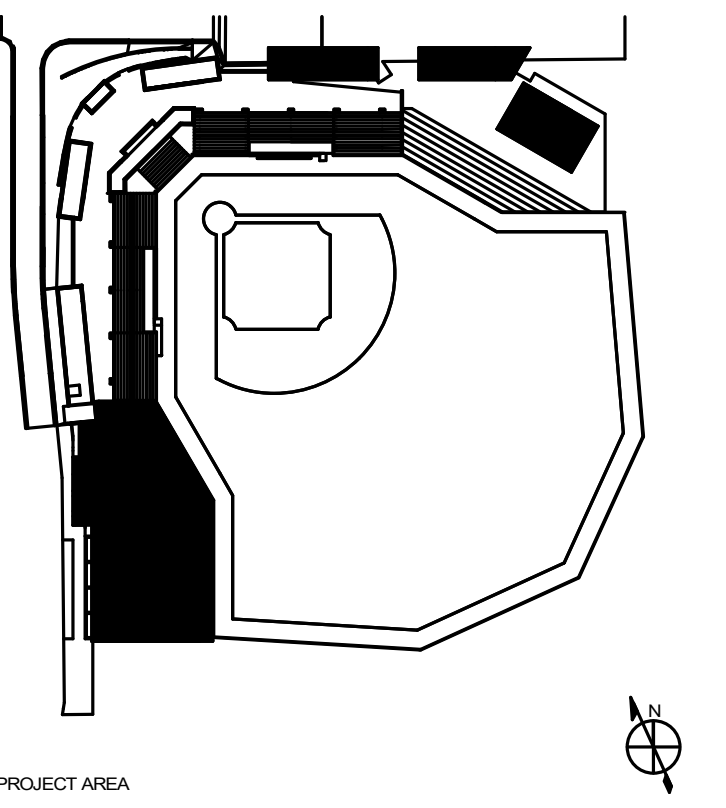
**PLATE/PANEL SIGNAL FLOW DETAIL**





SCO PROJECT NO. 22-24384-01A  
NC STATE PROJ. NO. 202120015

KEY PLAN



REVISIONS

NO.	BY	DESCRIPTION	DATE
A	EC	PACKAGE A - LEFT & RIGHT FIELD ADDITIONS	01/31/2024

**NC STATE UNIVERSITY**

**DOAK FIELD ENHANCEMENT**  
1081 Varsity Dr  
Raleigh, NC 27606

DRAWN BY: Author DATE: 01/29/2024

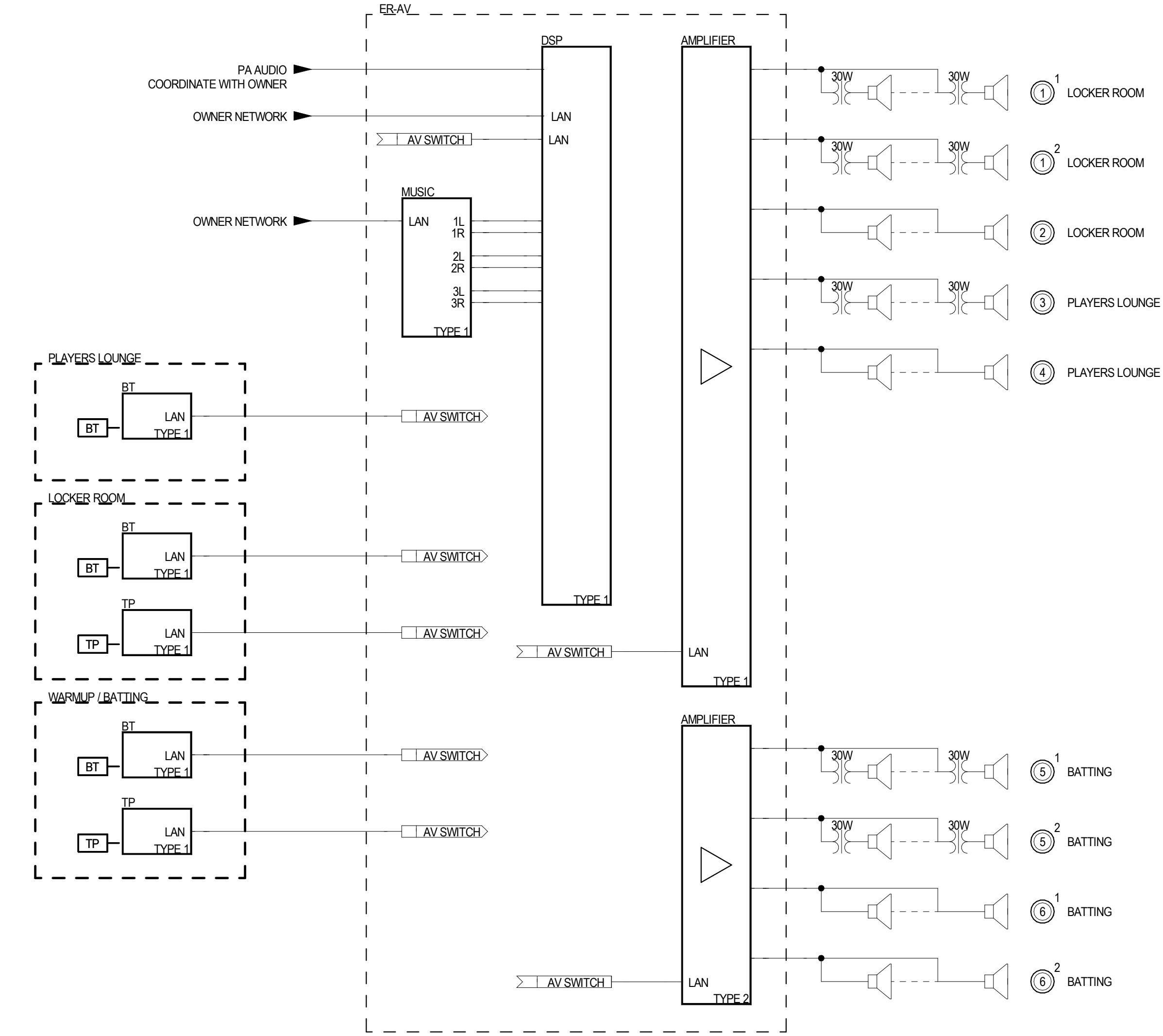
PROJECT NO. 20220400 SCALE 12" = 1'-0"

DRAWING NAME

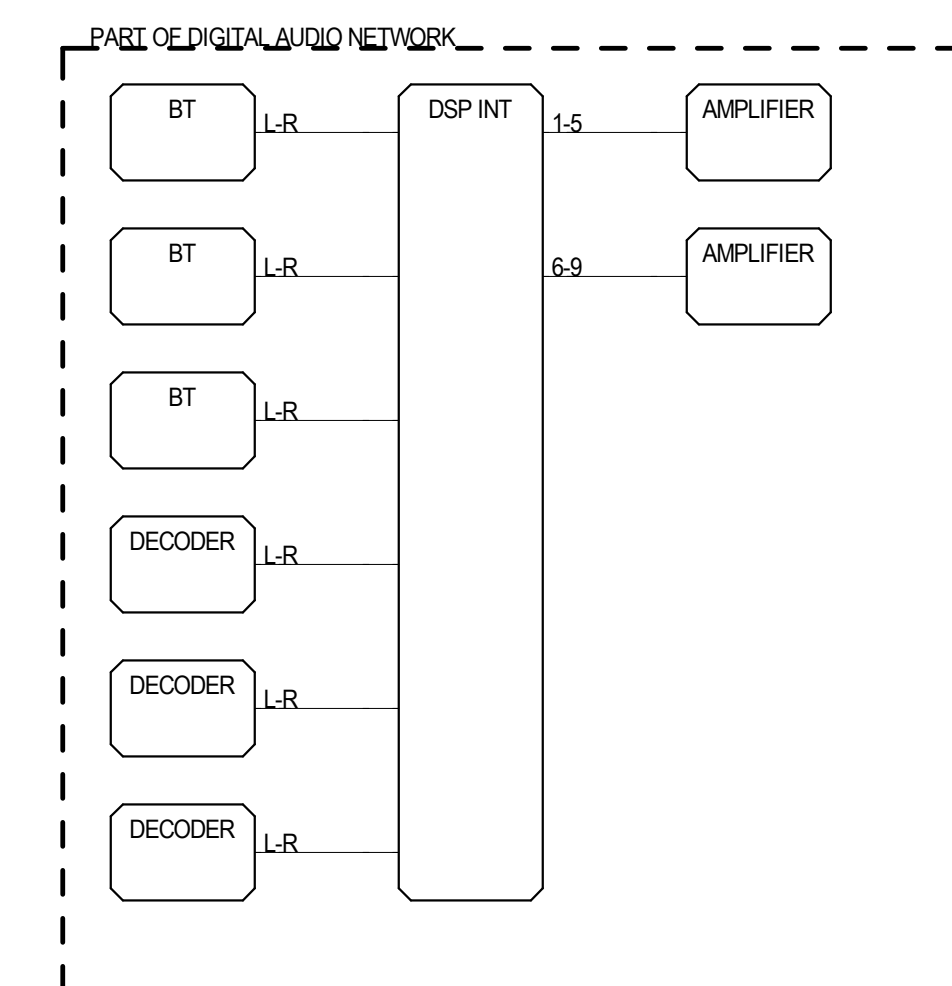
AV FUNCTIONAL DIAGRAMS

FLOOR/SECTION PHASE DRAWING NO.

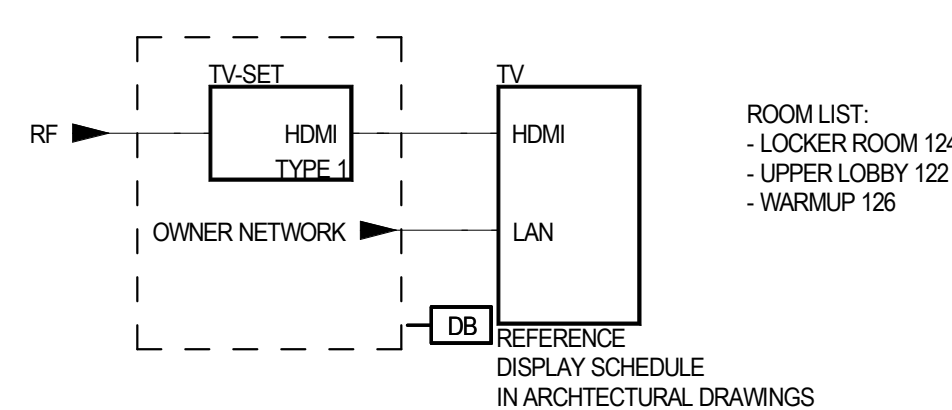
**CD ES11.01**



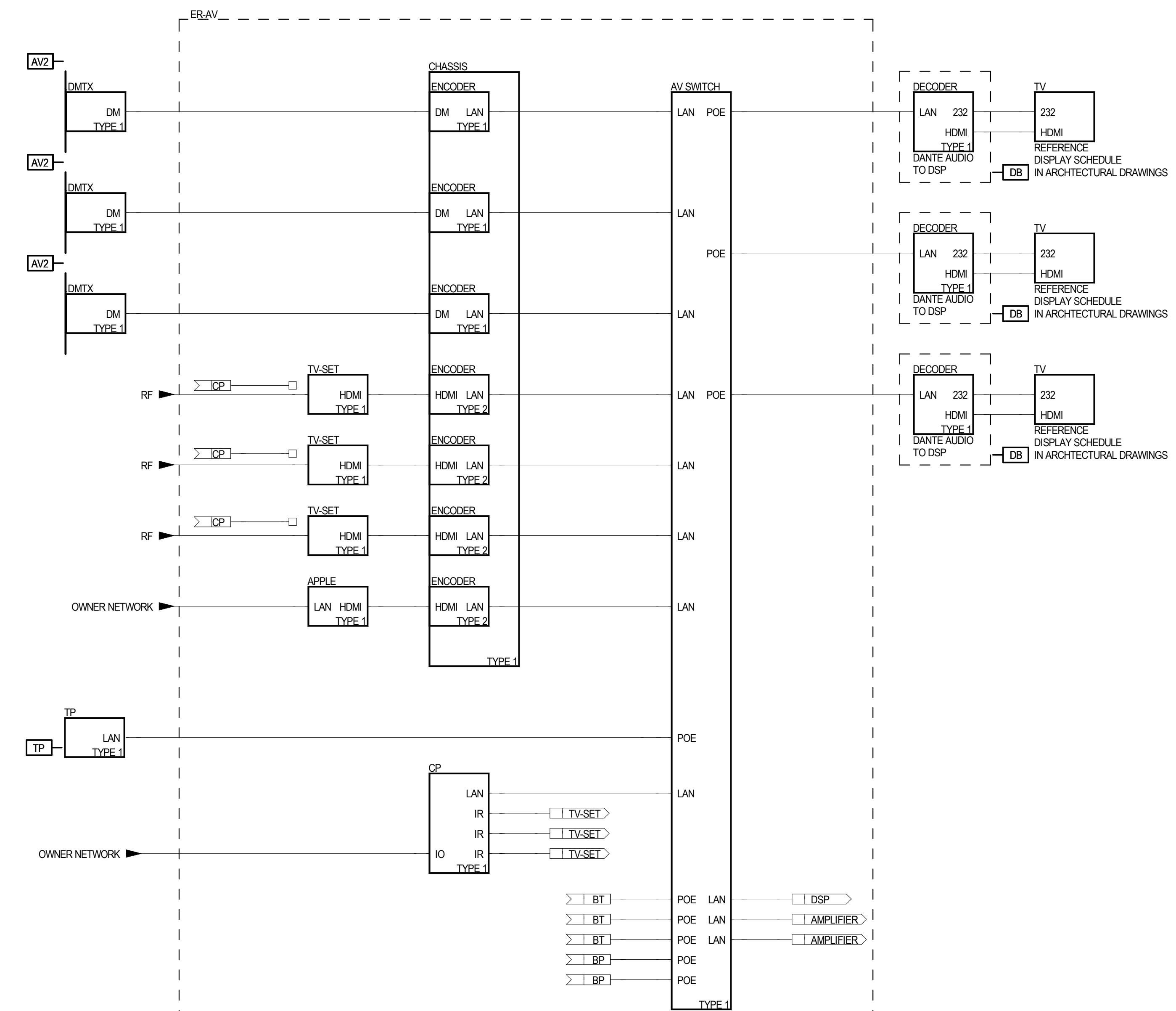
2 SOUND FUNCTIONAL DIAGRAM  
SCALE: NTS



4 DIGITAL AUDIO ROUTING DIAGRAM  
SCALE: NTS



3 TYPICAL DISPLAY AV FUNCTIONAL DIAGRAM  
SCALE: NTS



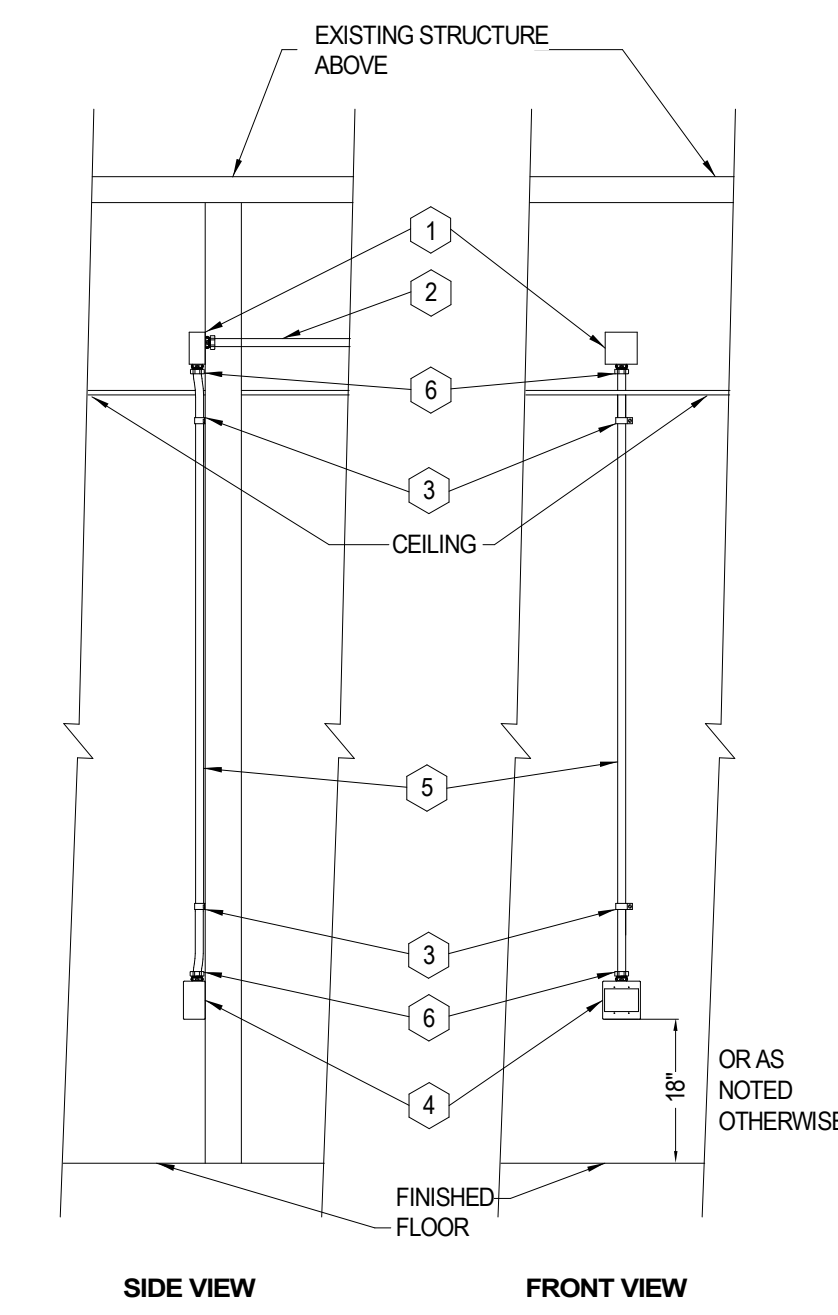
1 PLAYERS LOUNGE AV FUNCTIONAL DIAGRAM  
SCALE: NTS





SCO PROJECT NO. 22-24384-01A  
NC STATE PROJ. NO. 202120015

KEY PLAN



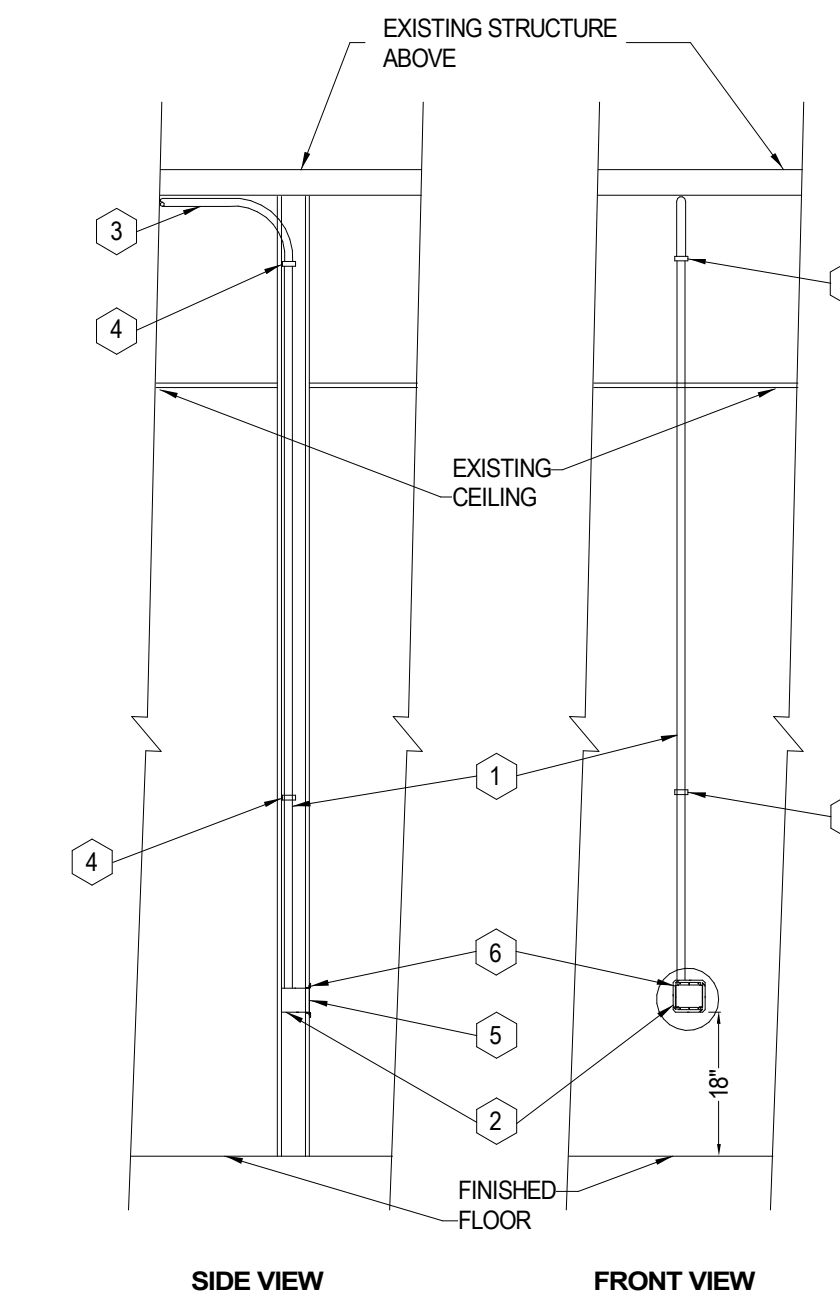
**KEYNOTES:**

- 1 RACO #298 J-BOX W/ RACO #832 BLANK COVER PLATE.
- 2 1" EMT CONDUIT TO NEW WIREWAY LOCATED IN HALLWAY CEILING SPACE. ROUTE ABOVE EXISTING ACOUSTIC CEILING TILE OR TIGHT TO FIXED TILE CEILING AND SUPPORT AS REQUIRED.
- 3 RACO #284 ONE HOLE EMT STRAP AS REQUIRED (TYPICAL).
- 4 WIREMOLD V-2444-2 TWO GANG SURFACE MOUNTED OUTLET BOX. PROVIDE PULL STRING FROM OUTLET TO WIREWAY. SECURE AT BOTH ENDS.
- 5 1" EMT CONDUIT SURFACE MOUNTED. RUN CONDUIT TIGHT TO WALL WITH BOX OFFSETS AT JUNCTION BOXES AND OUTLET BOX.
- 6 RACO #2904 1" EMT COMPRESSION TYPE CONNECTOR.

**GENERAL NOTES:**

1. REFER TO DIVISION 26 FOR MATERIALS AND IMPLEMENTATION.
2. MATERIALS LISTED ARE BASIS OF DESIGN.
3. CEILING HEIGHT MAY VARY FROM ROOM TO ROOM.
4. USE COMPRESSION COUPLINGS AND CONNECTORS FOR EMT CONDUIT.
5. ALL BOXES TO BE MOUNTED SUCH THAT SCREW HOLES FOR INSTALL KITS ARE AT TOP AND BOTTOM OF BOX IN ORDER FOR INSTALL KITS TO BE MOUNTED VERTICALLY. THIS MAY REQUIRE DRILLING A NEW HOLE IN OUTLET BOX FOR CONDUIT PENETRATION.
6. NO MORE THAN TWO (2) 90 DEGREE TURNS SHALL EXIST BETWEEN BOXES OR BETWEEN JUNCTION BOXES AND END OF CONDUIT. NO "LB" TYPE JOINTS WILL BE ALLOWED.
7. FIRESTOP FIRE-RATED CONSTRUCTION IN ACCORDANCE WITH THE UL-LISTED THROUGH PENETRATION FIRESTOP.
8. FIRESTOP NON-FIRE-RATED CONSTRUCTION IN ACCORDANCE WITH THE N.C. STATE BUILDING CODE.
9. PROVIDE PULL STRINGS BETWEEN PULLING POINTS. SECURE AT BOTH ENDS.

4 SURFACE MOUNTED OUTLET  
SCALE: NTS



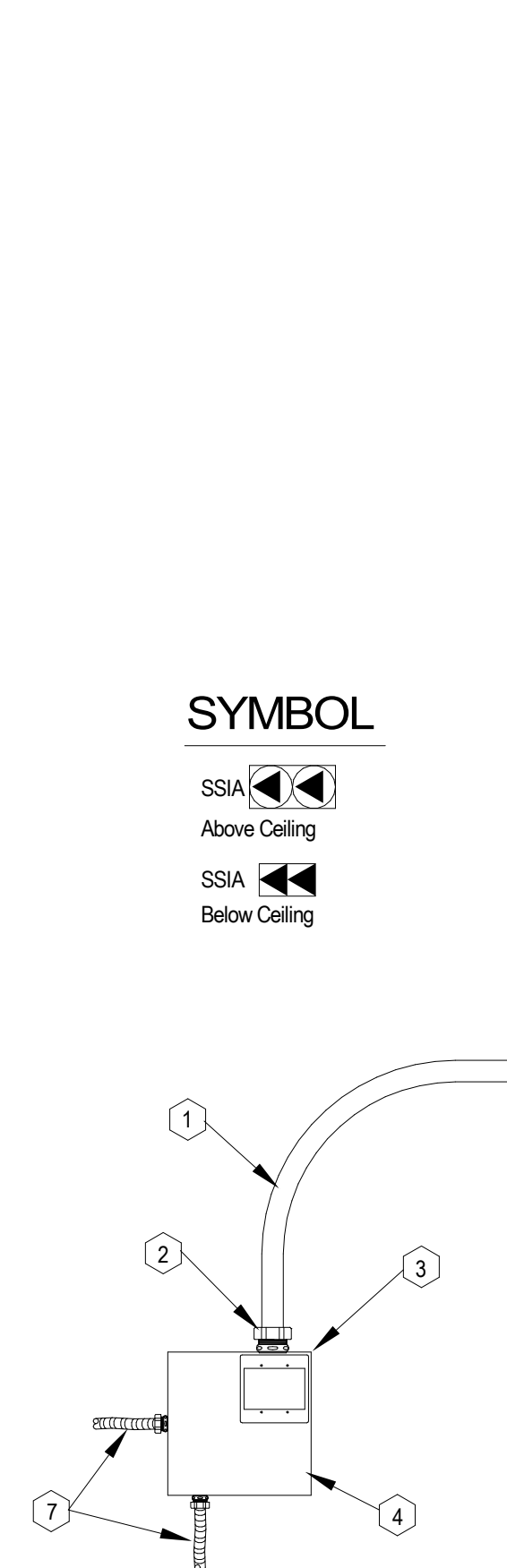
**KEYNOTES:**

- 1 1" EMT CONDUIT INSIDE GYPSUM BOARD AND METAL STUD WALLS.
- 2 RACO 4" SQUARE BOX, 2-1/8" DEEP WITH 1" K.O.'S. STEEL BOX MUST BE MOUNTED LEVEL AND PERPENDICULAR TO WALL. AS THE FACEPLATE MOUNTING CANNOT BE ADJUSTED TO COMPENSATE, PROVIDE PULL STRING FROM OUTLET TO WIREWAY. SECURE AT BOTH ENDS.
- 3 1" EMT CONDUIT TO NEW WIREWAY LOCATED IN HALLWAY CEILING SPACE. ROUTE ABOVE EXISTING ACOUSTIC CEILING TILE OR TIGHT TO FIXED TILE CEILING AND SUPPORT AS REQUIRED.
- 4 RACO #284 ONE HOLE EMT STRAP AS REQUIRED (TYPICAL).
- 5 RACO 779 SQUARE CORNERED TILE WALL COVER (PLASTER RING) FOR 4" SQUARE BOX. DOUBLE DEVICE CAPACITY, RAISED 3/4" STEEL. MOUNT ONTO FRONT OF OUTLET BOX.
- 6 THE FRONT SURFACE OF THE BOX IS TO SET BACK NO MORE THAN 1/8" FROM THE SURFACE OF THE GYPSUM BOARD. THE GAP BETWEEN THE GYPSUM BOARD AND THE BOX IS NOT TO EXCEED 1/8".

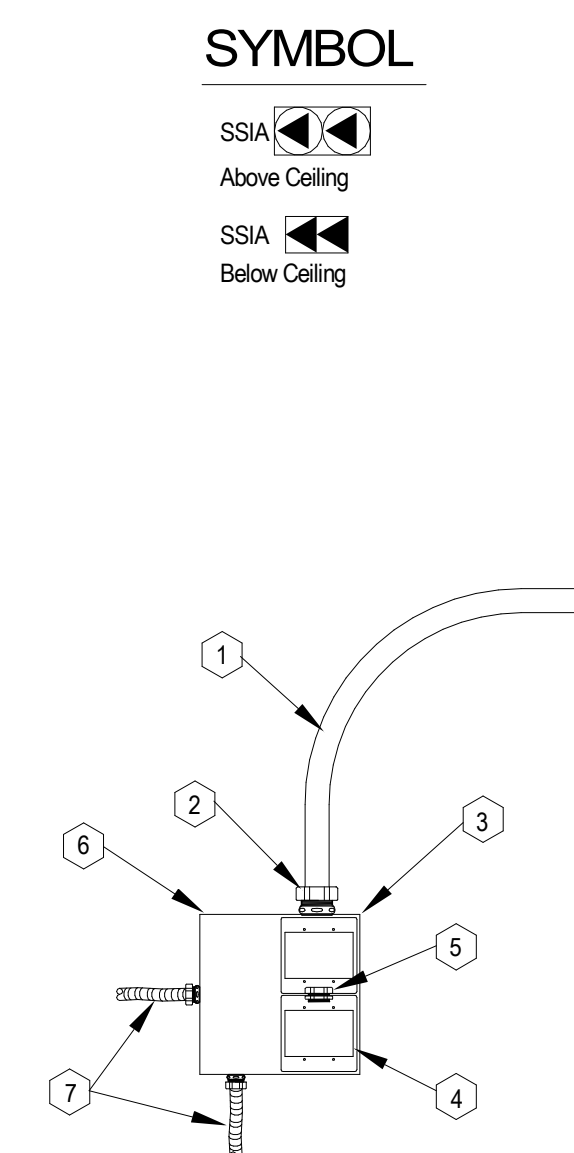
**GENERAL NOTES:**

1. REFER TO DIVISION 26 FOR MATERIALS AND IMPLEMENTATION.
2. MATERIALS LISTED ARE BASIS OF DESIGN.
3. CEILING HEIGHT MAY VARY FROM ROOM TO ROOM.
4. ALL BOXES AND PLASTER RINGS TO BE MOUNTED SUCH THAT SCREW HOLES ARE AT TOP AND BOTTOM OF BOX IN ORDER FOR FACEPLATES TO BE MOUNTED VERTICALLY.
5. NO MORE THAN TWO (2) 90 DEGREE TURNS SHALL EXIST BETWEEN BOXES OR BETWEEN JUNCTION BOXES AND END OF CONDUIT. NO "LB" TYPE JOINTS WILL BE ALLOWED.

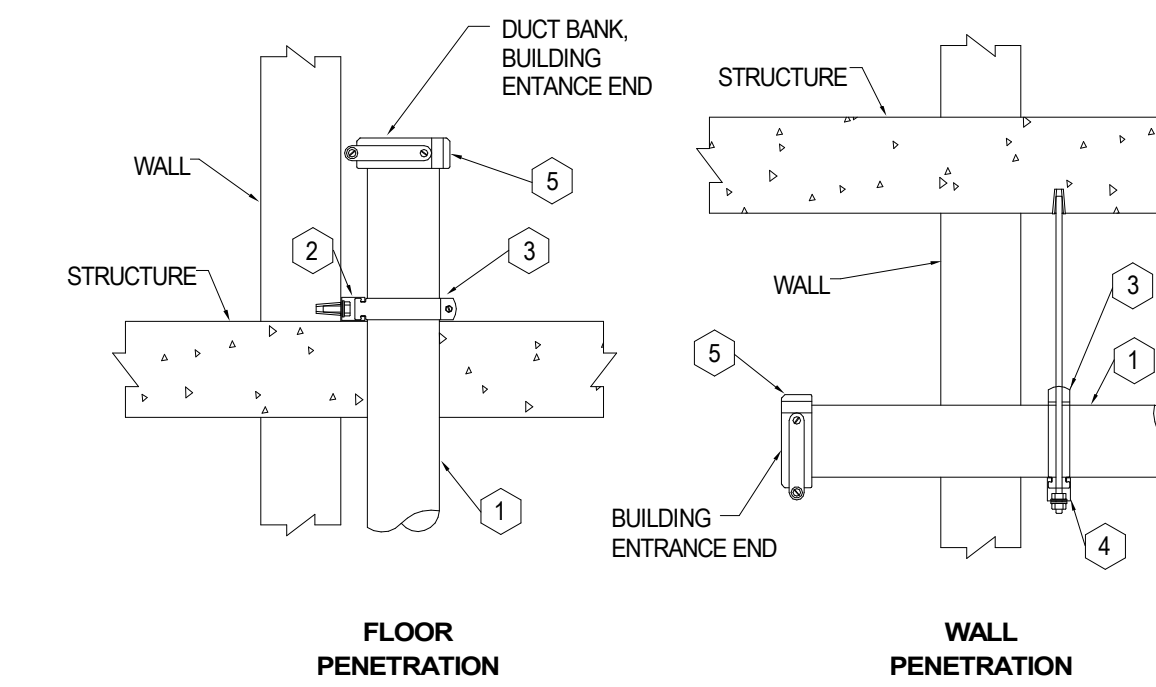
2 FLUSH MOUNTED OUTLET  
SCALE: NTS



5 SECURITY INTERFACE OUTLET (SSI) - TYPE B  
SCALE: NTS



3 SECURITY INTERFACE OUTLET (SSI) - TYPE A  
SCALE: NTS



**KEYNOTES:**

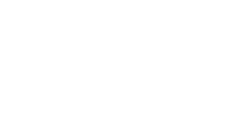
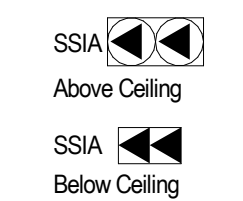
- 1 CONDUIT TO BE INSTALLED FROM BUILDING DUCT BANK ENTRANCE TO BUILDING DISTRIBUTION FRAME ROOM (BDF) SHALL BE "RIGID" TYPE (IF LONGER THAN 50 LF), WITH INSULATED BONDING AND GROUNDING BUSHING ON THE MAIN ENTRANCE END.
- 2 1 1/2"x1 1/2" 12GA. KINDORF CHANNEL - ANCHOR SECURELY TO WALL.
- 3 4" STRAPS (KINDORF #C-105-4).
- 4 KINDORF CHANNEL AND STRAP SUPPORT - ANCHOR SECURELY TO DECK ABOVE.
- 5 4" DIE CAST INSULATED, BONDING AND GROUNDING BUSHING (RACO #1296).
- 6 FIRESTOP AS REQUIRED BY NORTH CAROLINA FIRE CODE.

**GENERAL NOTES:**

1. REFER TO DIVISION 26 FOR MATERIALS AND IMPLEMENTATION.
2. MATERIALS LISTED ARE BASIS OF DESIGN.
3. PENETRATE TELECOMMUNICATIONS ROOM 4" TO 8" MAXIMUM.
4. 4" CONDUIT SHOWN. TYPICAL ENTRANCE IS TWO 4" AND FOUR 1-1/2" CONDUITS.

1 ENTRANCE CONDUIT END FITTINGS DETAIL  
SCALE: NTS

**SYMBOL**



**KEYNOTES:**

- 1 1" EMT CONDUIT TO TELECOM WIREWAY.
- 2 1" EMT COMPRESSION TYPE CONNECTOR. ATTACH IN CENTER OF WIREMOLD BOX AS SHOWN.
- 3 WIREMOLD V-2444-2 TWO GANG SURFACE MOUNTED OUTLET BOX. PROVIDE PULLSTRING FROM OUTLET TO WIREWAY. SECURE AT BOTH ENDS.
- 4 8" X 8" X 6" JUNCTION BOX WITH SCREW COVER.
- 5 FLEX CONDUIT TO SECURITY SYSTEM ENDPOINT DEVICES (BY OTHERS).

**GENERAL NOTES:**

1. REFER TO DIVISION 26 FOR MATERIALS AND IMPLEMENTATION.
2. MATERIALS LISTED ARE BASIS OF DESIGN.
3. CABLING SUPPORTED  
UWS 1.2 BUILDINGS - 4 IP CONNECTIONS  
UWS 2.0 BUILDINGS - 3 IP CONNECTIONS  
UWS 3.0 BUILDINGS - 1 TO 3 IP CONNECTIONS
4. INSTALL BOX BETWEEN 9FT AND 14FT ABOVE FINISHED FLOOR (AFF) UNLESS APPROVED BY NCSU COMTECH OR NCSU SAT OFFICE.

**SYMBOL**



**KEYNOTES:**

- 1 1 1/2" EMT CONDUIT TO TELECOM WIREWAY.
- 2 1 1/2" EMT COMPRESSION TYPE CONNECTOR. ATTACH IN CENTER OF WIREMOLD BOX AS SHOWN.
- 3 WIREMOLD V-2444-2 TWO GANG SURFACE MOUNTED OUTLET BOX. PROVIDE PULLSTRINGS FROM OUTLET TO WIREWAY. SECURE AT BOTH ENDS.
- 4 WIREMOLD V-2444-2 TWO GANG SURFACE MOUNTED OUTLET BOX.
- 5 1" CONDUIT CHASE NIPPLE AND LOCKOUT.
- 6 10" X 10" X 6" JUNCTION BOX WITH SCREW COVER.
- 7 FLEXCONDUIT TO SECURITY SYSTEM ENDPOINT DEVICES (BY OTHERS).

**GENERAL NOTES:**

1. REFER TO DIVISION 26 FOR MATERIALS AND IMPLEMENTATION.
2. MATERIALS LISTED ARE BASIS OF DESIGN.
3. CABLING SUPPORTED  
UWS 1.2 BUILDINGS - 8 IP CONNECTIONS  
UWS 2.0 BUILDINGS - 6 IP CONNECTIONS  
UWS 3.0 BUILDINGS - 4 TO 6 IP CONNECTIONS
4. INSTALL BOX BETWEEN 9FT AND 14FT ABOVE FINISHED FLOOR (AFF) UNLESS APPROVED BY NCSU COMTECH OR NCSU SAT OFFICE.

REVISIONS			
NO.	BY	DESCRIPTION	DATE
A	EC	PACKAGE A - LEFT & RIGHT FIELD ADDITIONS	01/31/2024
	EC	FIELD SERVICE BUILDING	10/06/2023

**NC STATE UNIVERSITY**

**DOAK FIELD ENHANCEMENT**  
1081 Varsity Dr  
Raleigh, NC 27606

DRAWN BY: WJHW DATE: 01/29/2024

PROJECT NO. 20220400 SCALE As indicated  
DRAWING NAME

IT INFRASTRUCTURE DETAILS

FLOOR/SECTION PHASE DRAWING NO.

**CD ES18.01**

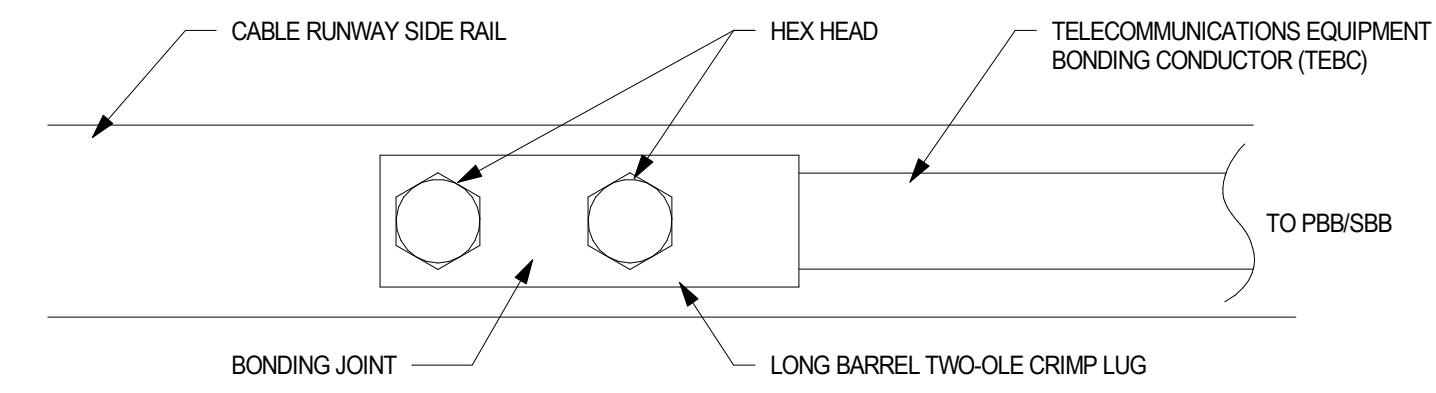


SCO PROJECT NO. 22-24384-01A  
NC STATE PROJ. NO. 202120015

KEY PLAN

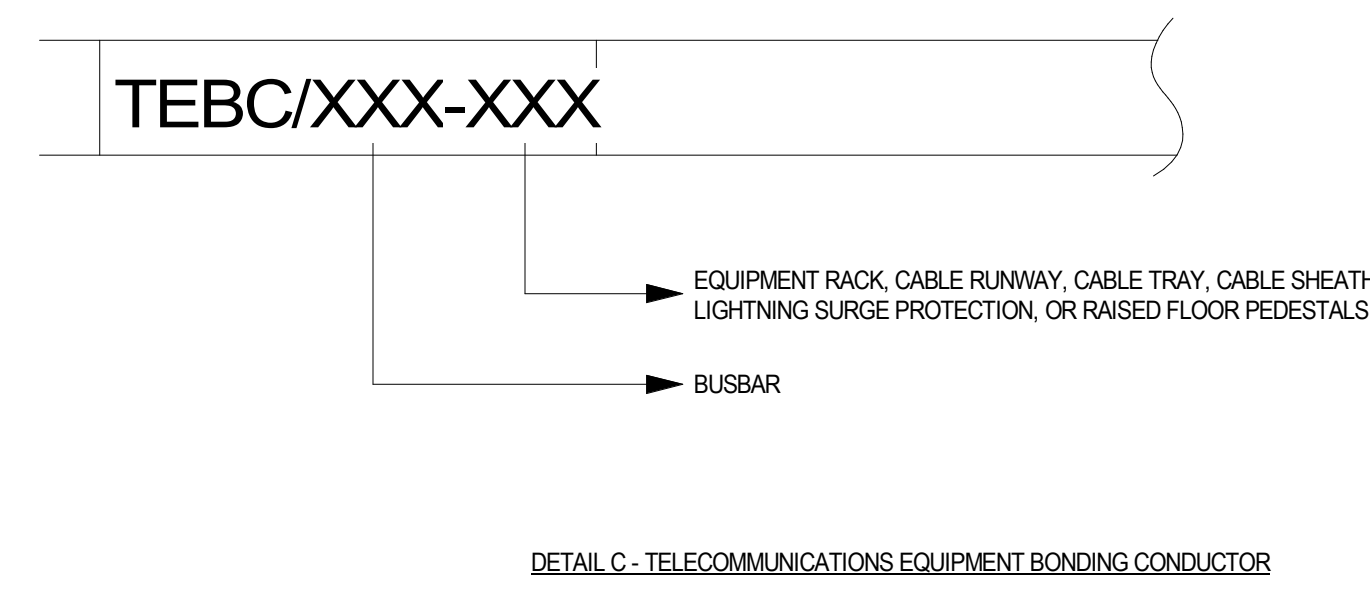
TBB/BBC linear length m (ft)	Conductor size (AWG)
less than 4 (13)	6
4 - 6 (14 - 20)	4
6 - 8 (21 - 26)	3
8 - 10 (27 - 33)	2
10 - 13 (34 - 41)	1
13 - 16 (42 - 52)	1/0
16 - 20 (53 - 66)	2/0
20 - 26 (67 - 84)	3/0
26 - 32 (85 - 105)	4/0
32 - 38 (106 - 125)	250 kcmil
38 - 46 (126 - 150)	300 kcmil
46 - 53 (151 - 175)	350 kcmil
53 - 76 (176 - 250)	500 kcmil
76 - 91 (251 - 300)	600 kcmil
Greater than 91 (301)	750 kcmil

5 TBB AND BBC CONDUCTOR SIZE CHART  
SCALE: NTS

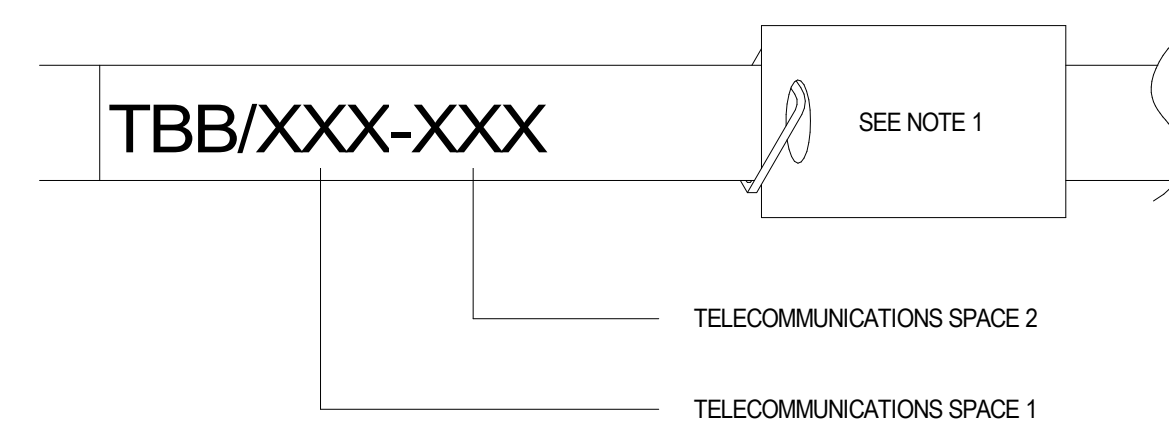


NOTES:  
1. REMOVE PAINT FROM CABLE RUNWAY AT BONDING POINT. UTILIZE JOINT COMPOUND WHEN ATTACHING THE CRIMP LUG TO THE CABLE RUNWAY.

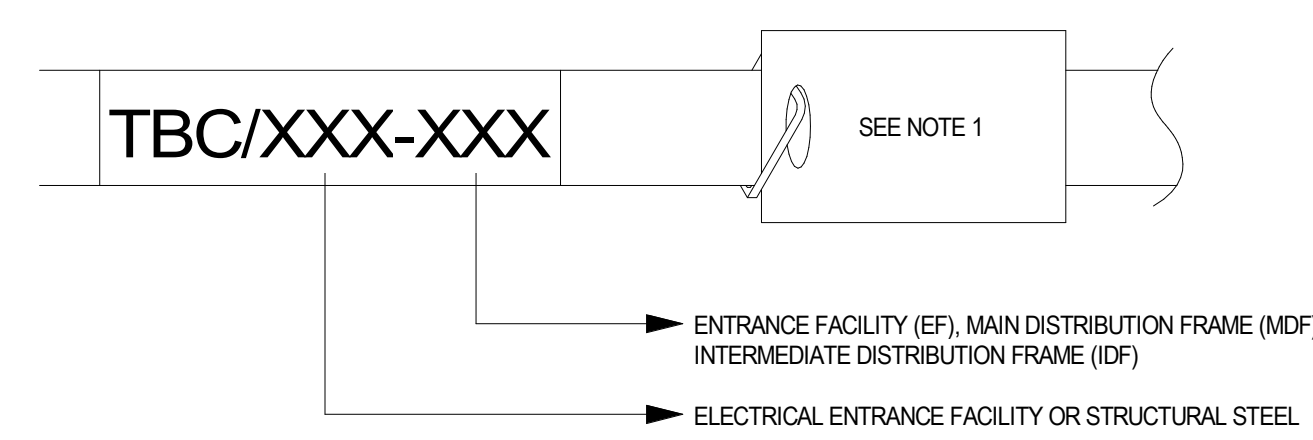
3 CABLE RUNWAY BONDING DETAIL  
SCALE: NTS



DETAIL C - TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR

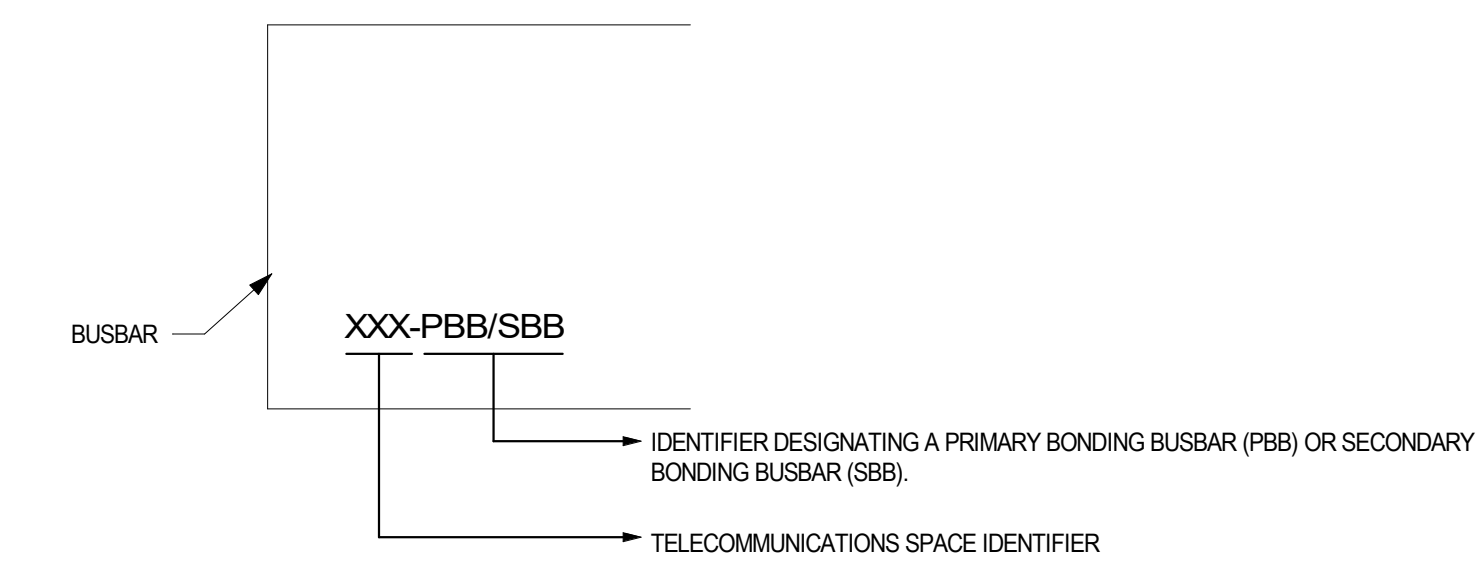


DETAIL B - TELECOMMUNICATIONS BONDING BACKBONE

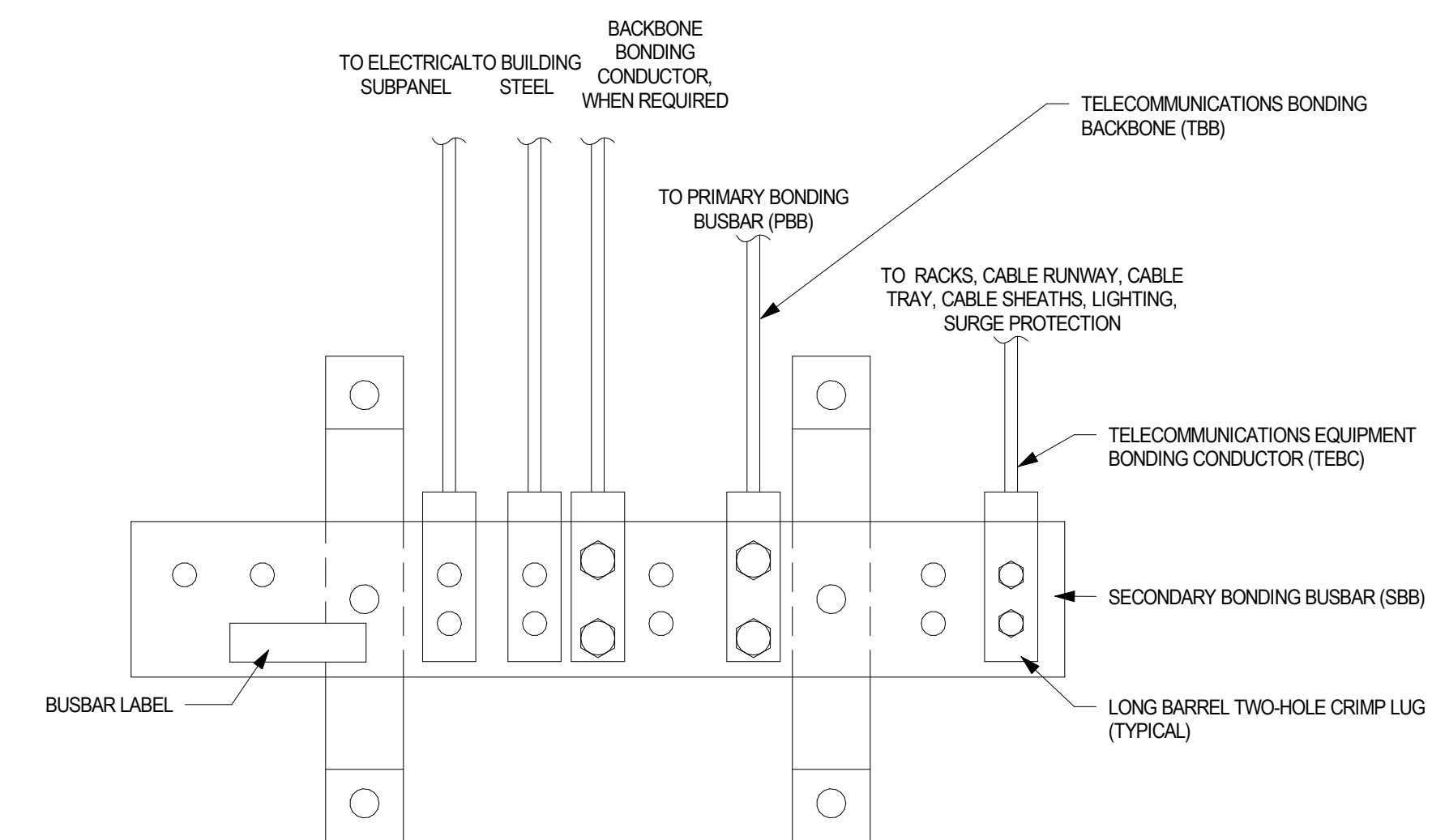


DETAIL A - TELECOMMUNICATIONS BONDING CONDUCTOR

4 BONDING CONDUCTOR LABEL DETAIL  
SCALE: NTS



2 BONDING BUSBAR LABEL DETAIL  
SCALE: NTS



1 SECONDARY BONDING BUSBAR (SBB) DETAIL  
SCALE: NTS

REVISIONS			
NO.	BY	DESCRIPTION	DATE
A	EC	PACKAGE A - LEFT & RIGHT FIELD ADDITIONS	01/31/2024
	EC	FIELD SERVICE BUILDING	10/06/2023

**NC STATE UNIVERSITY**

**DOAK FIELD ENHANCEMENT**  
1081 Varsity Dr  
Raleigh, NC 27606

DRAWN BY: WJHW DATE: 01/29/2024

PROJECT NO.: 20220400 SCALE: As indicated

DRAWING NAME: STRUCTURED CABLING GROUNDING AND BONDING DETAILS

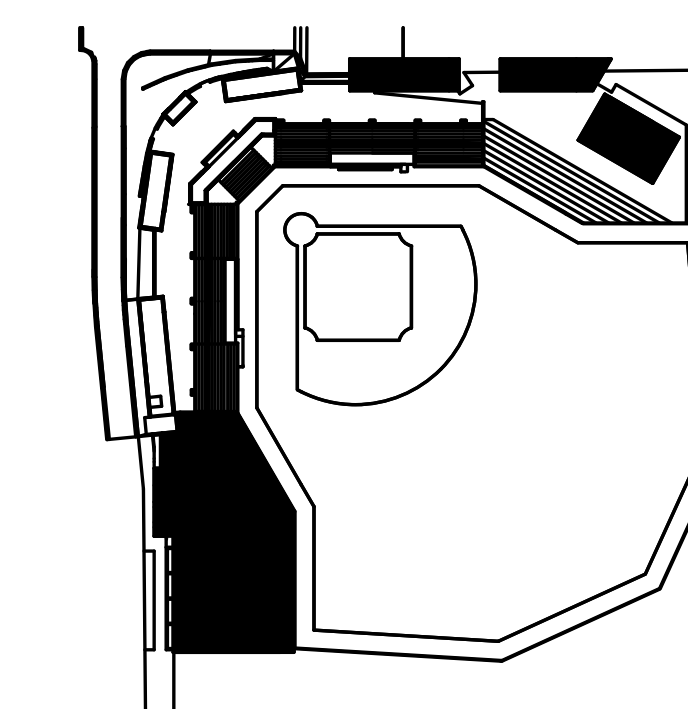
FLOOR/SECTION PHASE: DRAWING NO.:

**CD ES18.02**



SCO PROJECT NO. 22-24384-01A  
NC STATE PROJ. NO. 202120015

KEY PLAN



PROJECT AREA

REVISIONS

NO.	BY	DESCRIPTION	DATE
A	EC	PACKAGE A - LEFT & RIGHT FIELD ADDITIONS	01/31/2024

**NC STATE UNIVERSITY**

**DOAK FIELD ENHANCEMENT**  
1081 Varsity Dr  
Raleigh, NC 27608

DRAWN BY WJHW DATE 01/29/2024

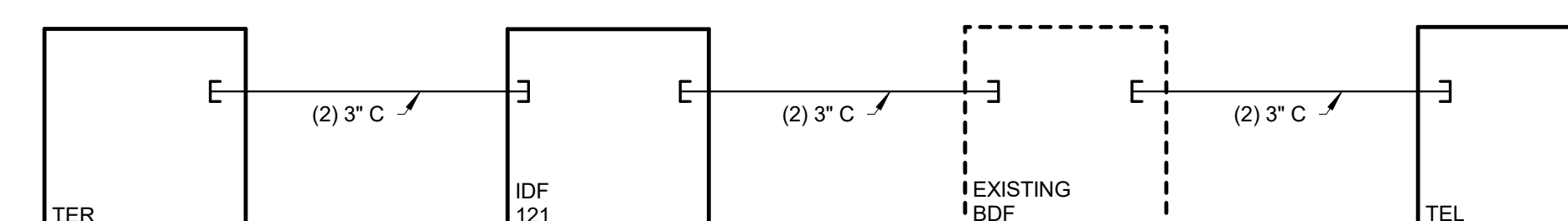
PROJECT NO. 20220400 SCALE 12" = 1'-0"

DRAWING NAME

RISER DIAGRAMS

FLOOR/SECTION PHASE DRAWING NO.

CD ES18.10

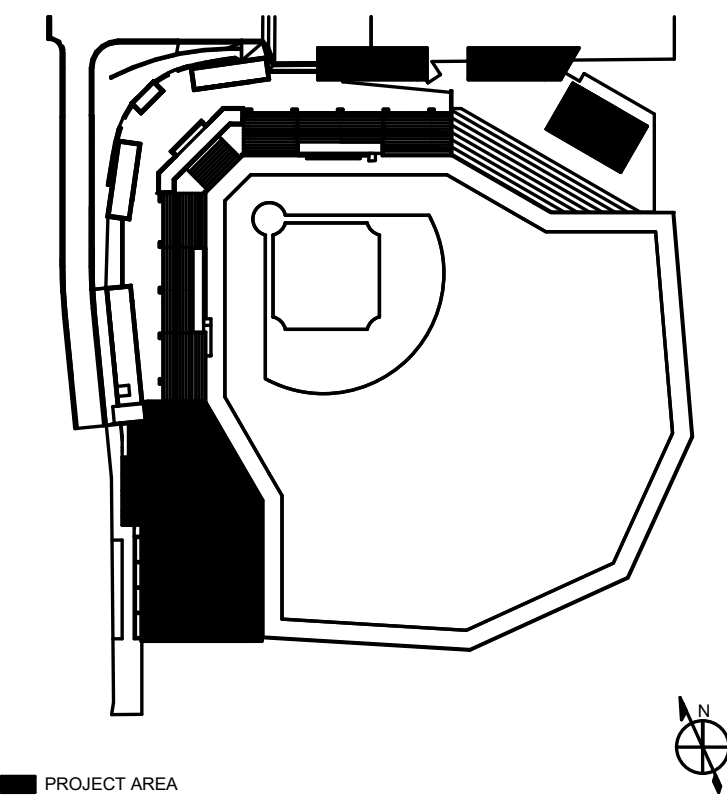


1 STRUCTURED CABLING SYSTEM PATHWAY DIAGRAM  
SCALE: 12" = 1'-0"



SCO PROJECT NO. 22-24384-01A  
NC STATE PROJ. NO. 202120015

KEY PLAN



REVISIONS

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A	EC	PACKAGE A - LEFT & RIGHT FIELD ADDITIONS	01/31/2024

**NC STATE UNIVERSITY**

**DOAK FIELD ENHANCEMENT**  
1081 Varsity Dr  
Raleigh, NC 27606

DRAWN BY \_\_\_\_\_ Author DATE \_\_\_\_\_ 01/29/2024

PROJECT NO. 20220400 SCALE \_\_\_\_\_

DRAWING NAME \_\_\_\_\_

SECURITY DEVICE SCHEDULE - LEFT & RIGHT FIELD

FLOOR/SECTION PHASE \_\_\_\_\_ DRAWING NO. \_\_\_\_\_

**CD ES19.11**

**ACCESS CONTROL SCHEDULE**

DESIGNATOR	TYPE	NAME	DETAIL	PANEL LOCATION	COMMENTS
FIELD					
120	BRS	LOWER LOBBY	3/ES19.72	IDF 121	
122	BRS	UPPER LOBBY	1/ES19.72	IDF 121	
123	BRS	PLAYERS LOUNGE	1/ES19.72	IDF 121	
124	BRS	VEST. 124A	1/ES19.72	IDF 121	
124B	BRS	LOCKER ROOM	1/ES19.72	IDF 121	
126A	BRS	PLAYERS LOUNGE	1/ES19.72	IDF 121	
126B	BRS	BATTING	1/ES19.72	IDF 121	
LEVEL 2					
126	CRS	PUBLIC SAFETY	2/ES19.74	TER	
128	CRS	STORAGE/CONCESSIONS	2/ES19.74	TER	
WS.01	WS	PUBLIC SAFETY		TER	

**INTRUSION DETECTION SCHEDULE**

DESIGNATOR	TYPE	NAME	DETAIL	PANEL LOCATION	COMMENTS
FIELD					
126C	DC	BATTING	2/ES19.73	IDF 121	
G126-01	OH	BATTING	1/ES19.73	IDF 121	
G126-02	OH	BATTING	1/ES19.73	IDF 121	
G126-03	OH	BATTING	1/ES19.73	IDF 121	
G126-04	OH	BATTING	1/ES19.73	IDF 121	
Z102C	OH	OVERHEAD DOOR FSB	1/ES19.71	TE	
Z102D	OH	OVERHEAD DOOR FSB	1/ES19.71	TE	
LEVEL 2					
PB.01	PB	PUBLIC SAFETY	3/ES19.74	TER	
R119A	OH	CONCESSIONS	1/ES19.74	TER	
R119B	OH	CONCESSIONS	1/ES19.74	TER	
R119C	OH	CONCESSIONS	1/ES19.74	TER	

**VIDEO SURVEILLANCE SCHEDULE**

DESIGNATOR	TYPE	DEVICE MOUNTING DETAIL	MOUNTING HEIGHT	PANEL LOCATION	COMMENTS
L2.LF.01	IN	1/ES19.81	9' 0" AFG	TER	
L2.LF.02	IN	1/ES19.81	12' 0" AFG	TER	
L2.LF.03	IN	1/ES19.81	12' 0" AFG	TER	
L2.LF.04	IN	1/ES19.81	9' 0" AFG	TER	
L2.LF.05	IN	1/ES19.81	9' 0" AFG	TER	
RF.L1.01	IN	1/ES19.81	12' 0" AFG	IDF 121	
RF.L1.02	IN	1/ES19.81	9' 0" AFF	IDF 121	
RF.L1.03	IN	1/ES19.81	11' 0" AFF	IDF 121	
RF.L1.04	IN	1/ES19.81	11' 0" AFF	IDF 121	
RF.L1.05	IN	1/ES19.81	12' 0" AFG	IDF 121	
RF.L1.06	IN	1/ES19.81	12' 0" AFG	IDF 121	
RF.L1.50	IN	2/ES19.81	CEILING	IDF 121	
RF.L1.51	IN	2/ES19.81	CEILING	IDF 121	
RF.L2.01	IN	1/ES19.81	9' 6" AFG	IDF 121	

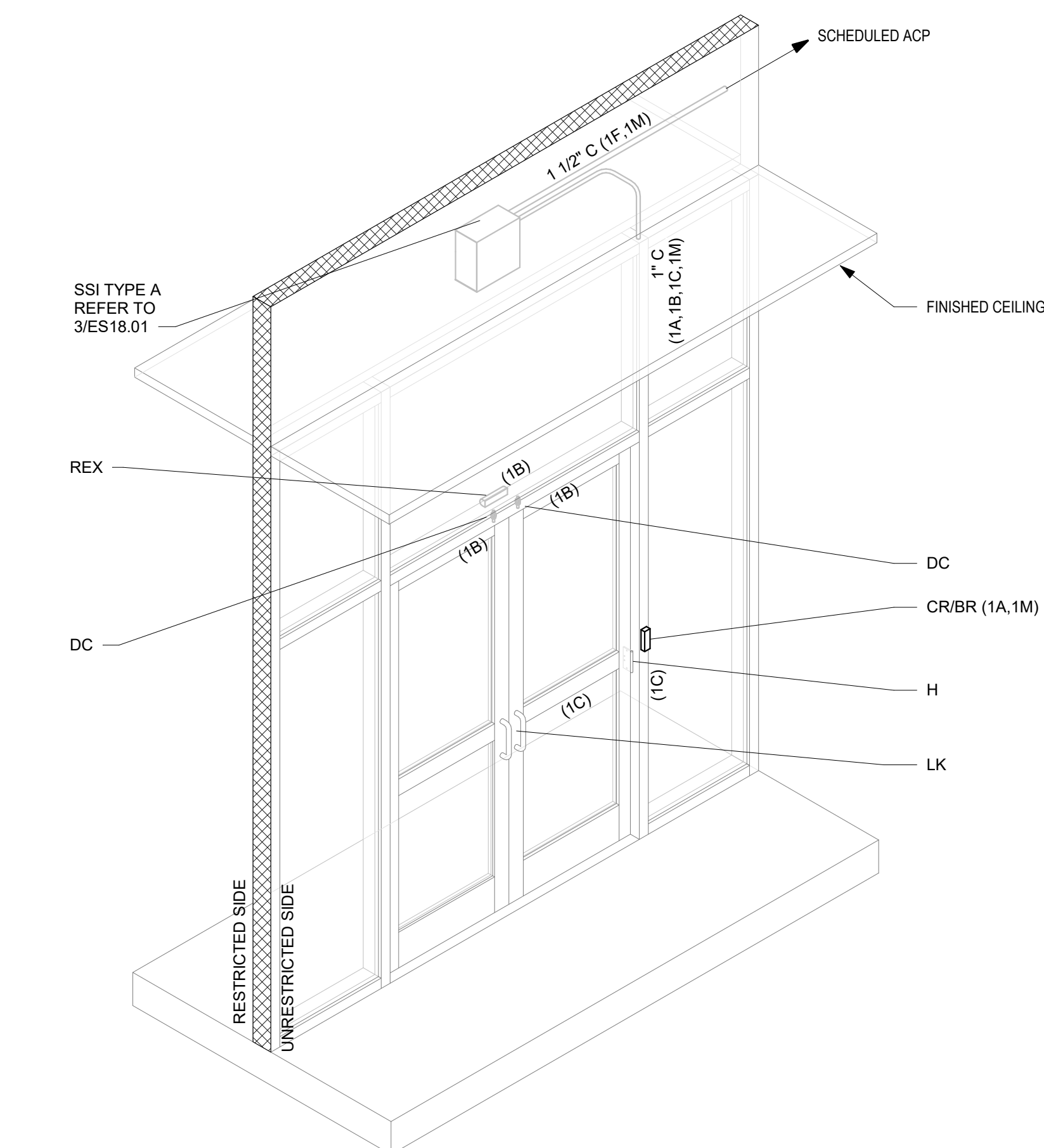
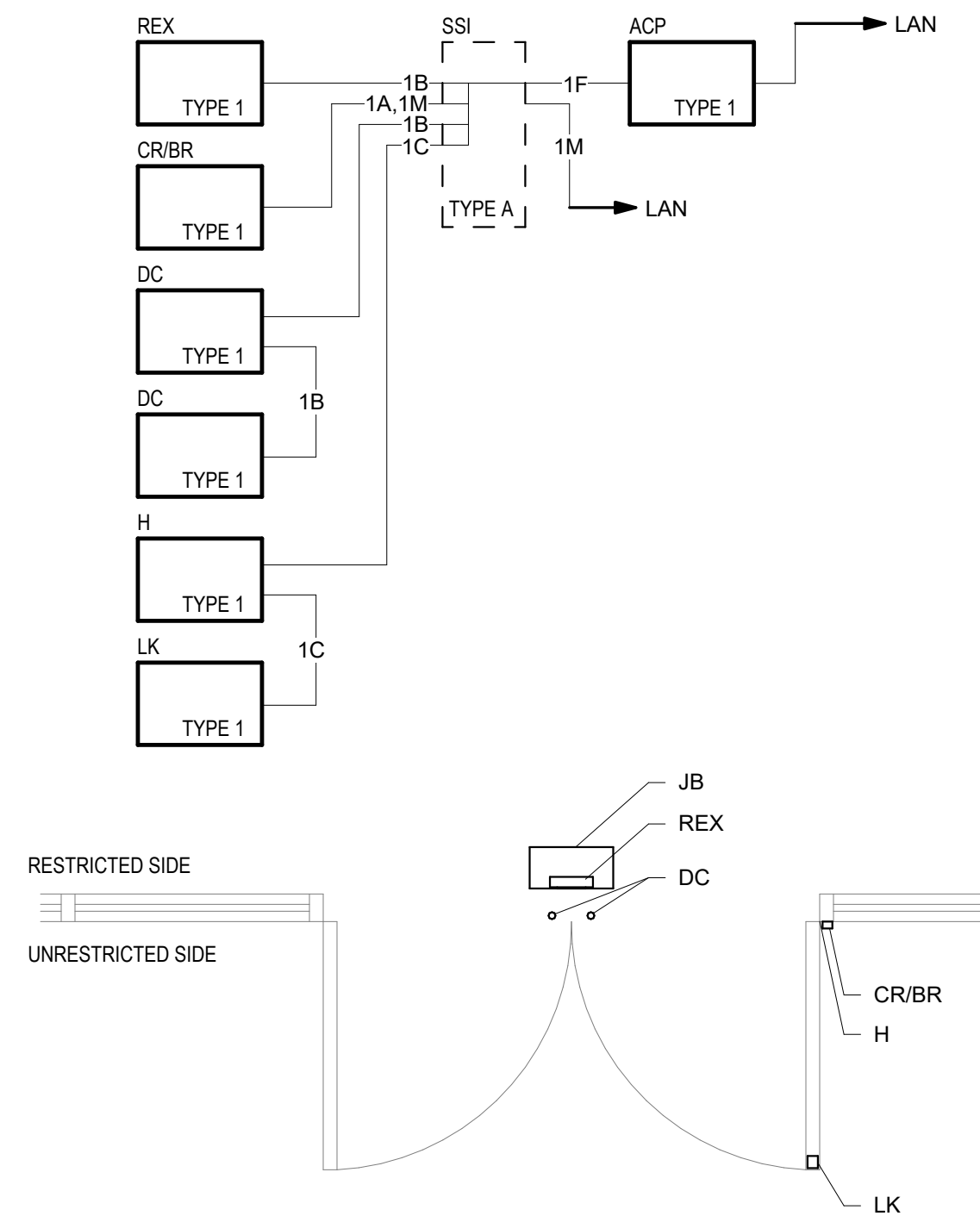


SCO PROJECT NO. 22-24384-01A  
NC STATE PROJ. NO. 202120015

KEY PLAN

**SEQUENCE OF OPERATION:**

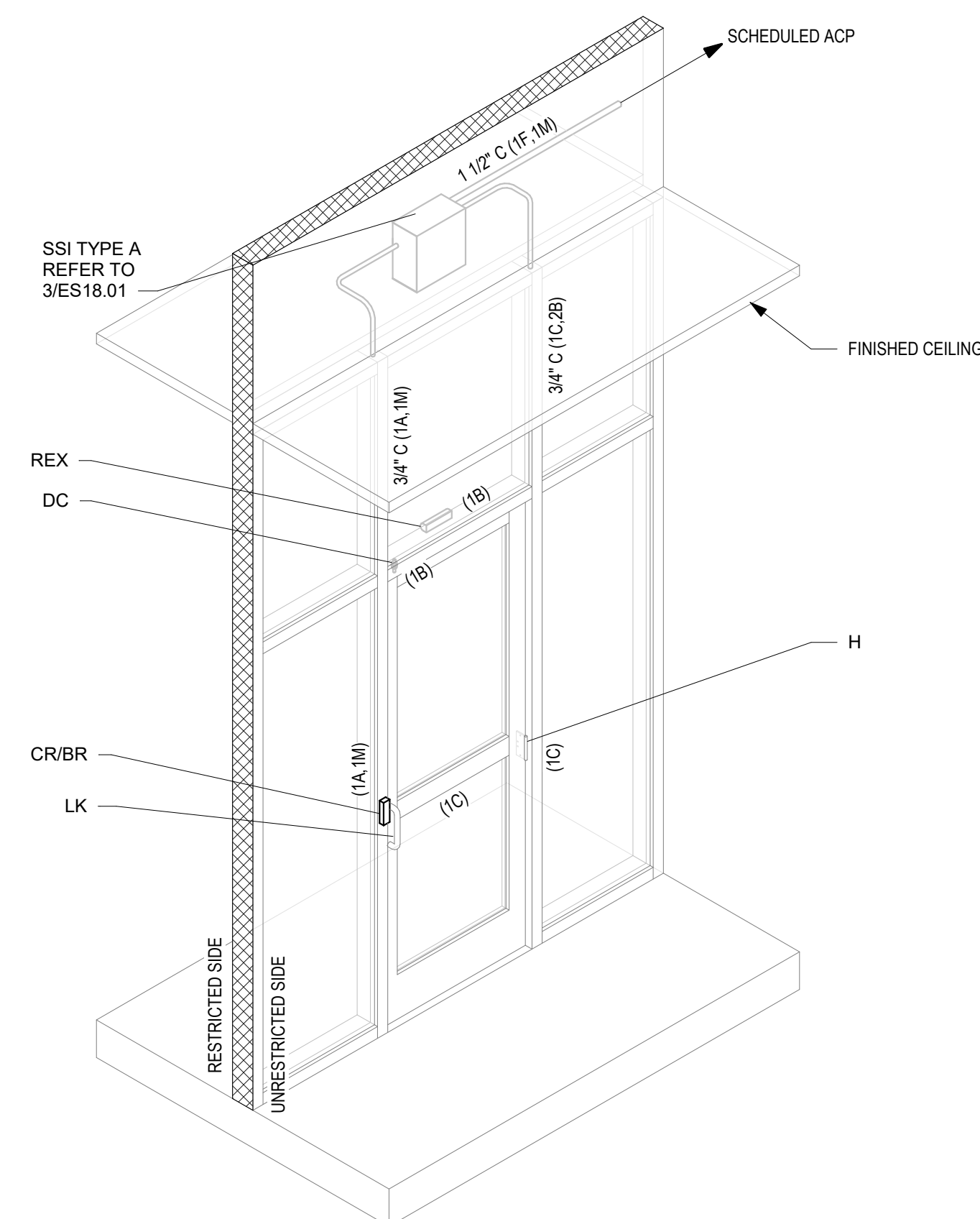
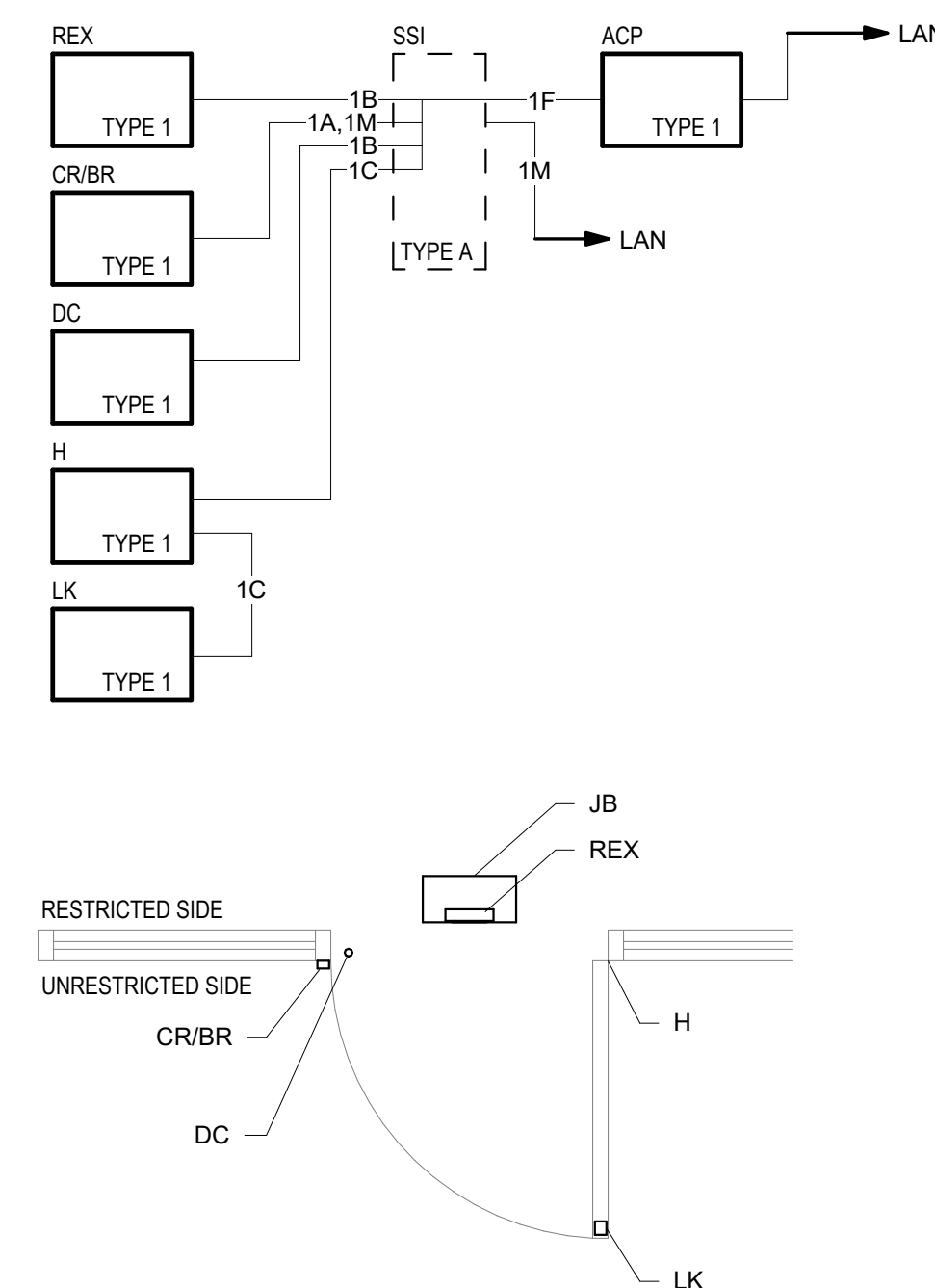
1. VALID CARD OR BIOMETRIC READ FROM UNRESTRICTED SIDE RELEASES THE DOOR FOR ENTRY AND SHUNTS THE DOOR CONTACT.
2. EGRESS FROM THE RESTRICTED SIDE ACTIVATES THE REQUEST TO EXIT SENSOR AND SHUNTS THE DOOR CONTACT.
3. COORDINATE WITH DIVISION 08.



3 CARD & BIOMETRIC READER - STOREFRONT, DOUBLE DOOR  
SCALE: NTS

**SEQUENCE OF OPERATION:**

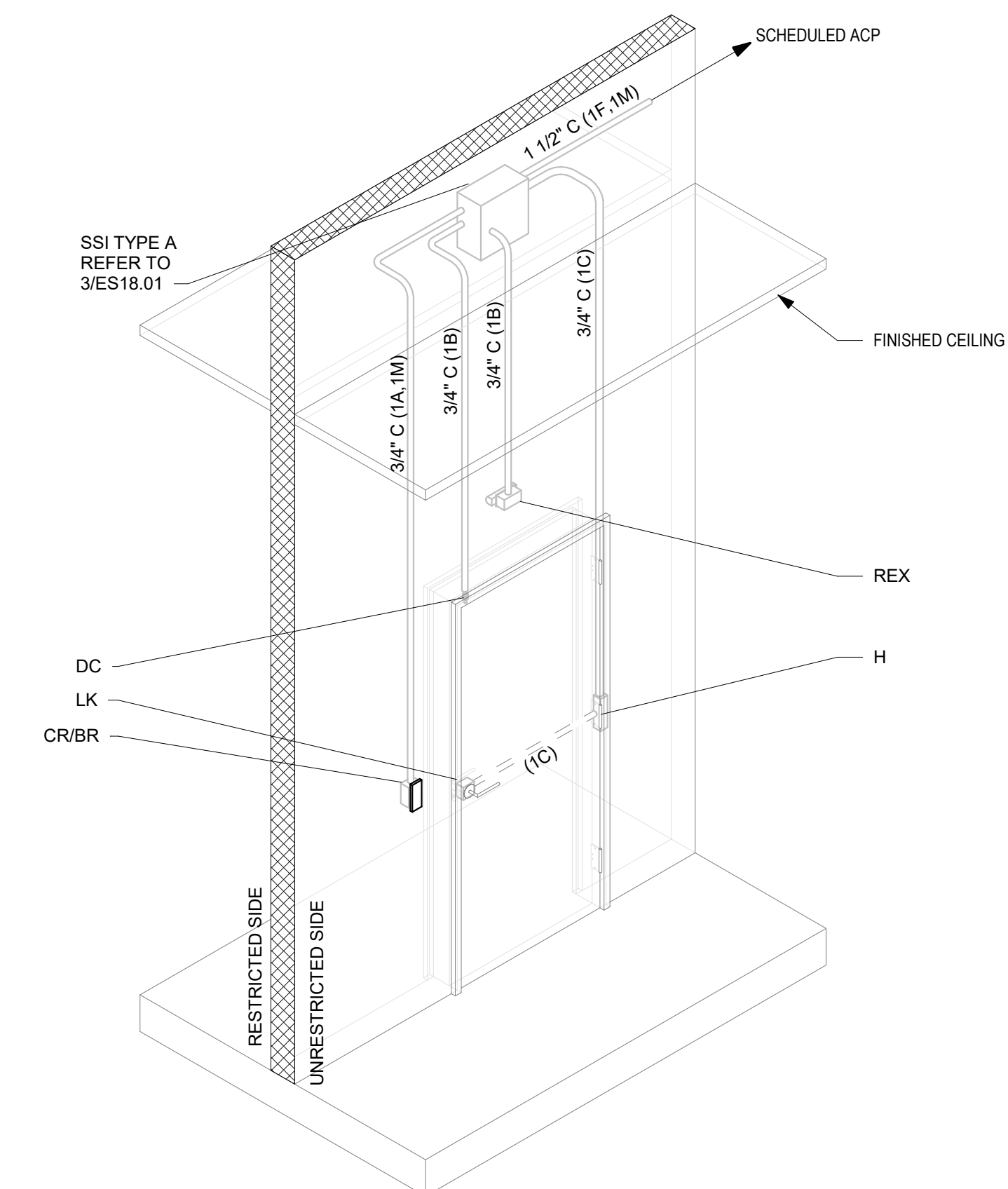
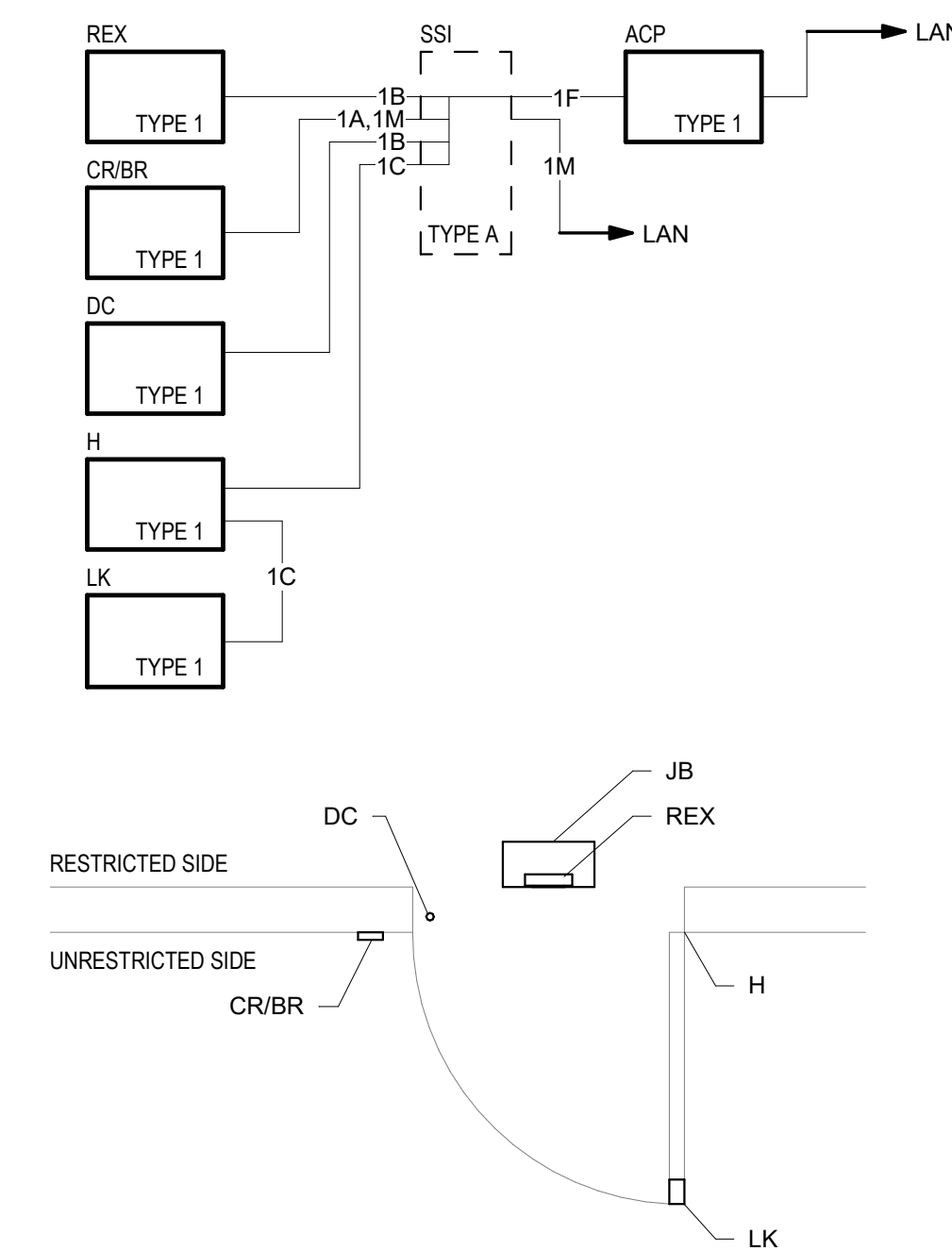
1. VALID CARD OR BIOMETRIC READ FROM UNRESTRICTED SIDE RELEASES THE DOOR FOR ENTRY AND SHUNTS THE DOOR CONTACT.
2. EGRESS FROM THE RESTRICTED SIDE ACTIVATES THE REQUEST TO EXIT SENSOR AND SHUNTS THE DOOR CONTACT.
3. COORDINATE WITH DIVISION 08.



2 CARD & BIOMETRIC READER - STOREFRONT, SINGLE DOOR  
SCALE: NTS

**SEQUENCE OF OPERATION:**

1. VALID CARD OR BIOMETRIC READ FROM UNRESTRICTED SIDE RELEASES THE DOOR FOR ENTRY AND SHUNTS THE DOOR CONTACT.
2. EGRESS FROM THE RESTRICTED SIDE ACTIVATES THE REQUEST TO EXIT SENSOR AND SHUNTS THE DOOR CONTACT.
3. COORDINATE WITH DIVISION 08.



1 CARD & BIOMETRIC READER - SINGLE DOOR  
SCALE: NTS

**REVISIONS**

NO.	BY	DESCRIPTION	DATE
A	EC	PACKAGE A - LEFT & RIGHT FIELD ADDITIONS	01/31/2024
	EC	FIELD SERVICE BUILDING	10/06/2023

**NC STATE UNIVERSITY**

**DOAK FIELD ENHANCEMENT**  
1081 Varsity Dr  
Raleigh, NC 27606

DRAWN BY JS DATE 01/29/2024

PROJECT NO. 20220400 SCALE 1/2" = 1'-0"

DRAWING NAME

ACCESS CONTROL DETAILS

FLOOR/SECTION PHASE DRAWING NO.

**CD ES19.72**



SCO PROJECT NO. 22-24384-01A  
NC STATE PROJ. NO. 202120015

KEY PLAN

REVISIONS			
NO.	BY	DESCRIPTION	DATE
A	EC	PACKAGE A - LEFT & RIGHT FIELD ADDITIONS	01/31/2024
	EC	FIELD SERVICE BUILDING	10/06/2023

**NC STATE UNIVERSITY**

**DOAK FIELD ENHANCEMENT**  
1081 Varsity Dr  
Raleigh, NC 27706

DRAWN BY \_\_\_\_\_ JS DATE 01/29/2024

PROJECT NO. 20220400 SCALE 1/2" = 1'-0"

DRAWING NAME

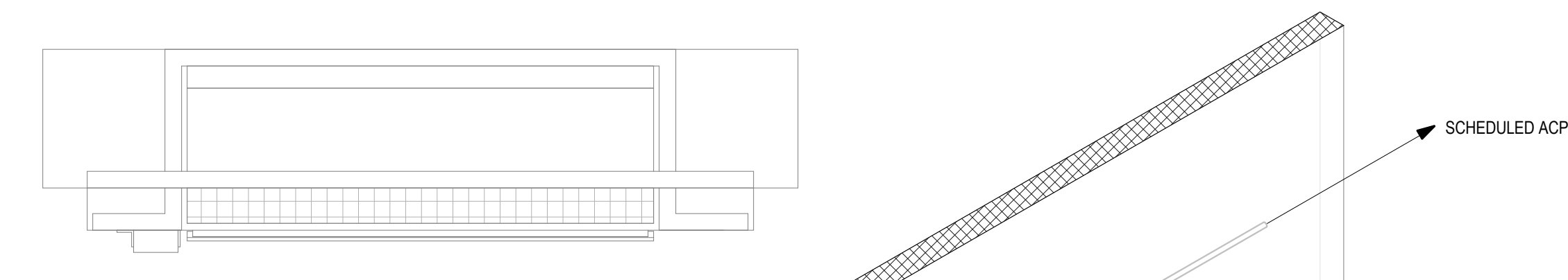
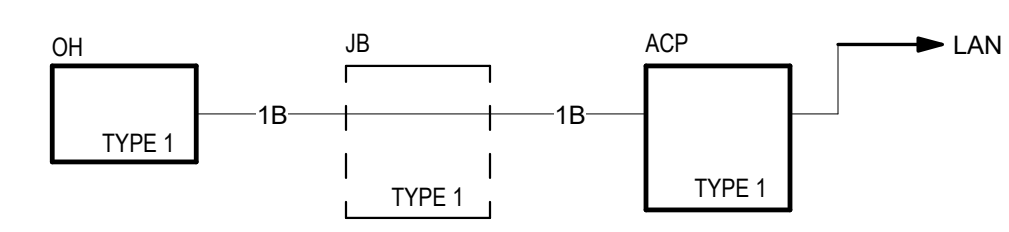
ACCESS CONTROL DETAILS

FLOOR/SECTION PHASE DRAWING NO.

**CD ES19.73**

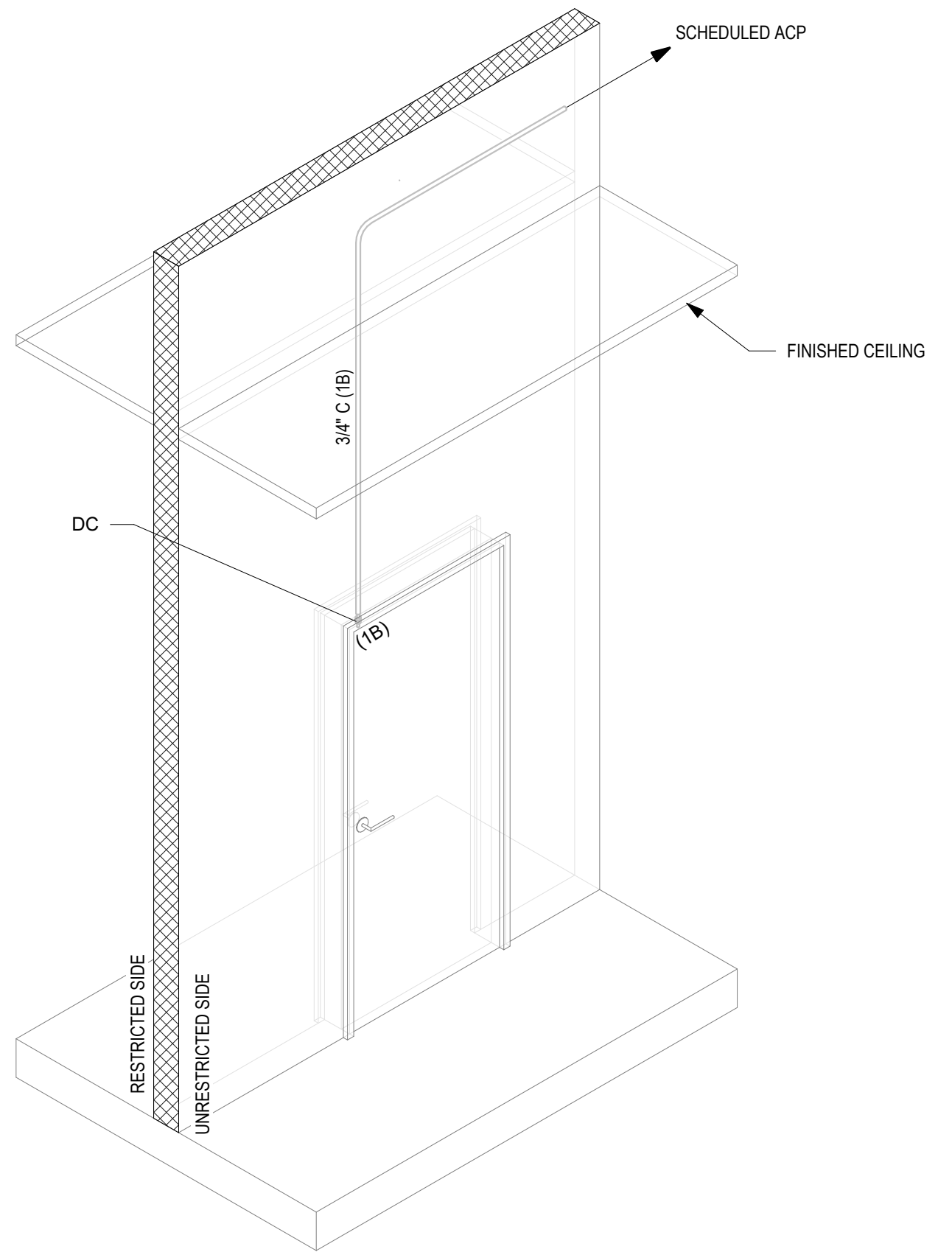
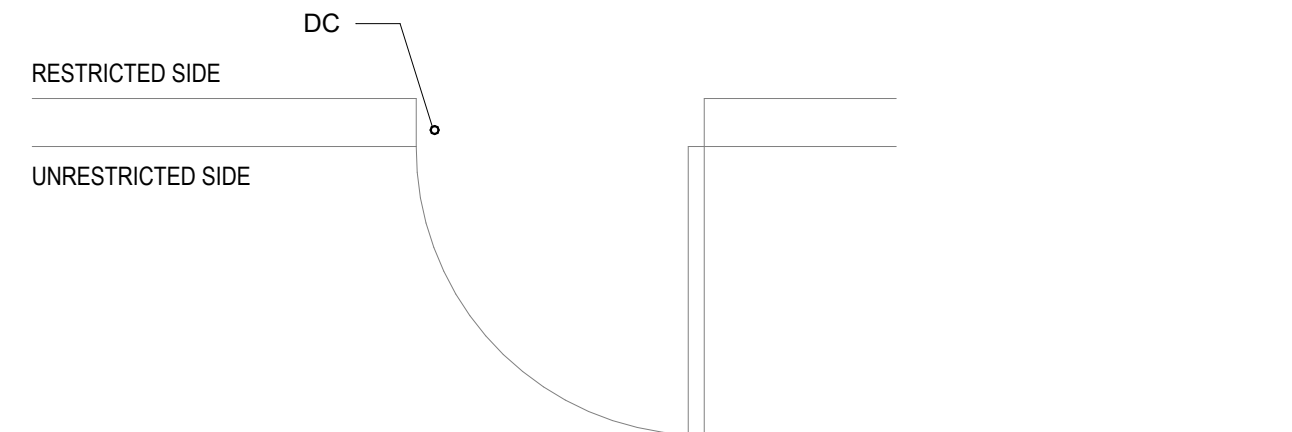
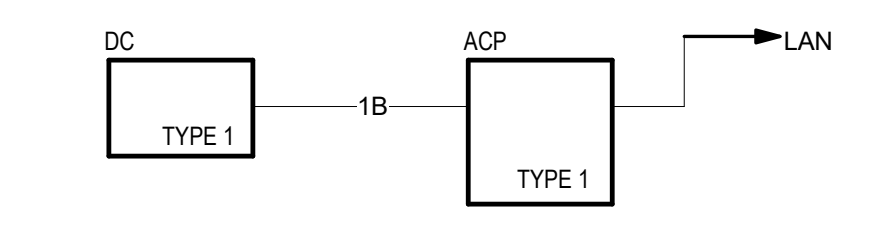
**SEQUENCE OF OPERATION:**

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2. NORMAL IN CLOSED STATE.

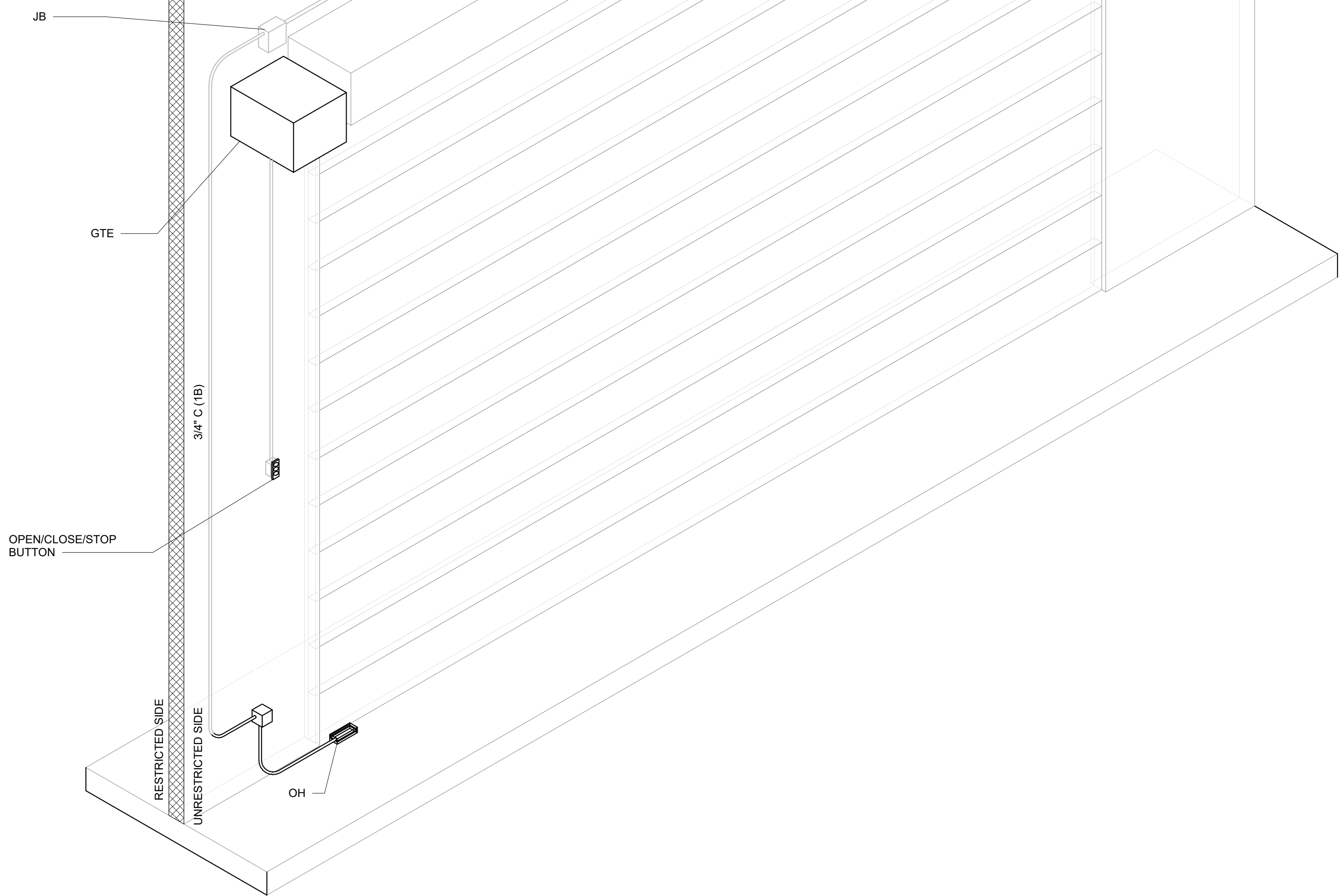


**SEQUENCE OF OPERATION:**

1. THE DOOR TRIGGERS THE INPUT ON THE ACP WHEN OPENED.
2. NORMAL IN CLOSED STATE.



**2 DOOR CONTACT ONLY - SINGLE DOOR**  
SCALE: NTS



**1 OVERHEAD DOOR CONTACT - MOTORIZED GATE**  
SCALE: NTS



SCO PROJECT NO. 22-24384-01A  
NC STATE PROJ. NO. 202120015

KEY PLAN

REVISIONS

NO.	BY	DESCRIPTION	DATE
A	EC	PACKAGE A - LEFT & RIGHT FIELD ADDITIONS	01/31/2024
	EC	FIELD SERVICE BUILDING	10/06/2023

**NC STATE UNIVERSITY**

**DOAK FIELD ENHANCEMENT**  
1081 Varsity Dr  
Raleigh, NC 27706

DRAWN BY JS DATE 01/29/2024

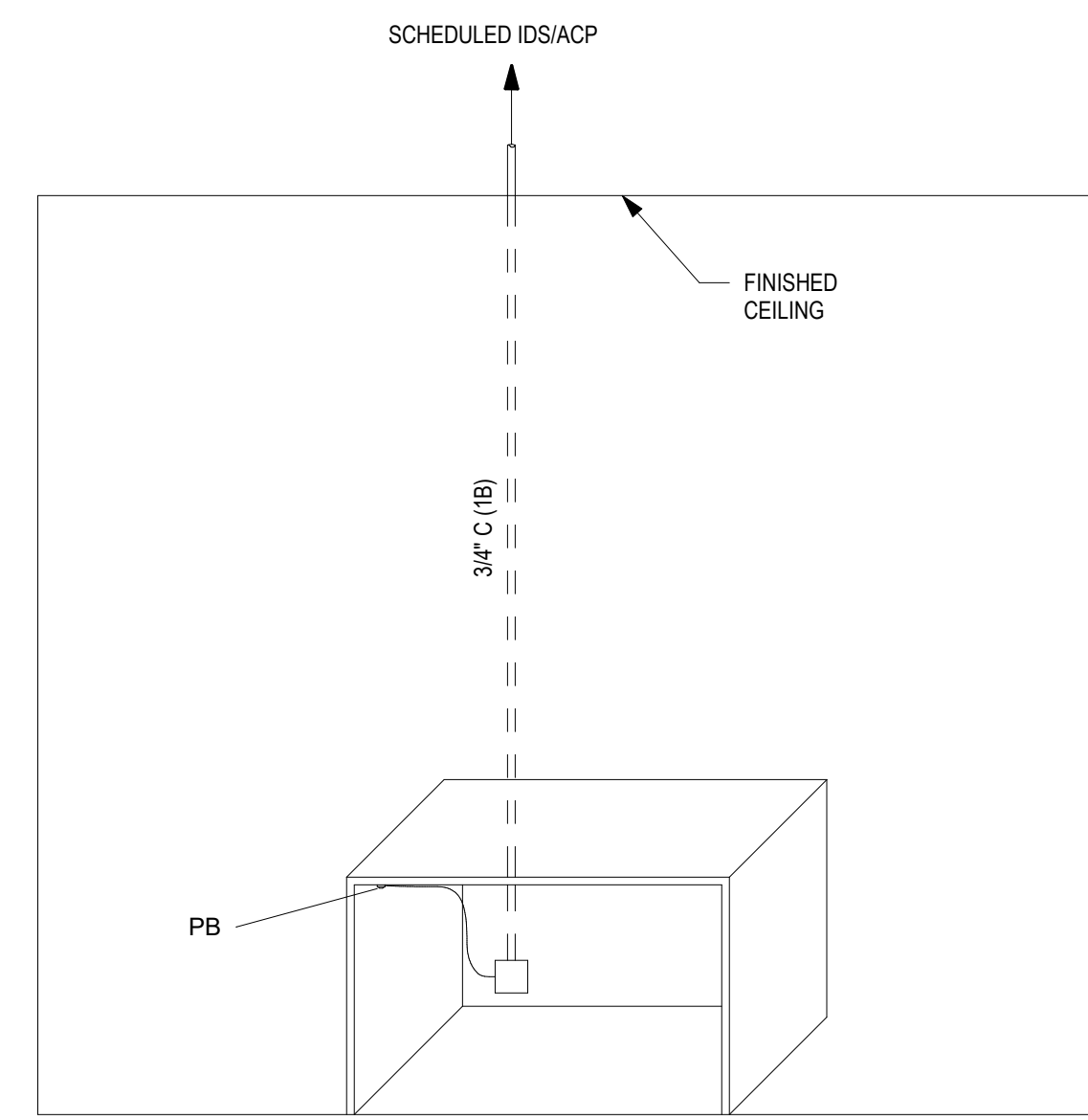
PROJECT NO. 20220400 SCALE 1/2" = 1'-0"

DRAWING NAME

ACCESS CONTROL DETAILS

FLOOR/SECTION PHASE DRAWING NO.

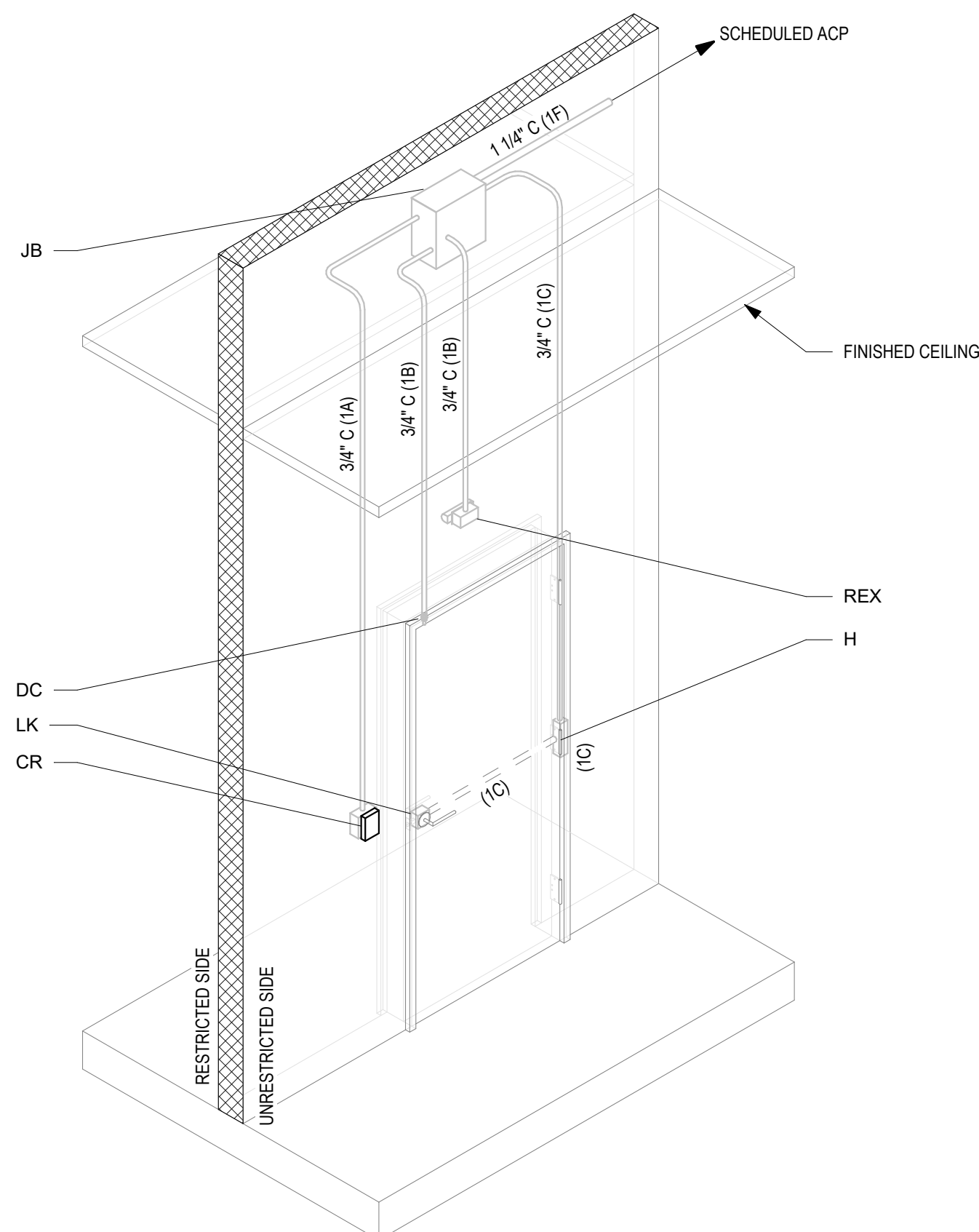
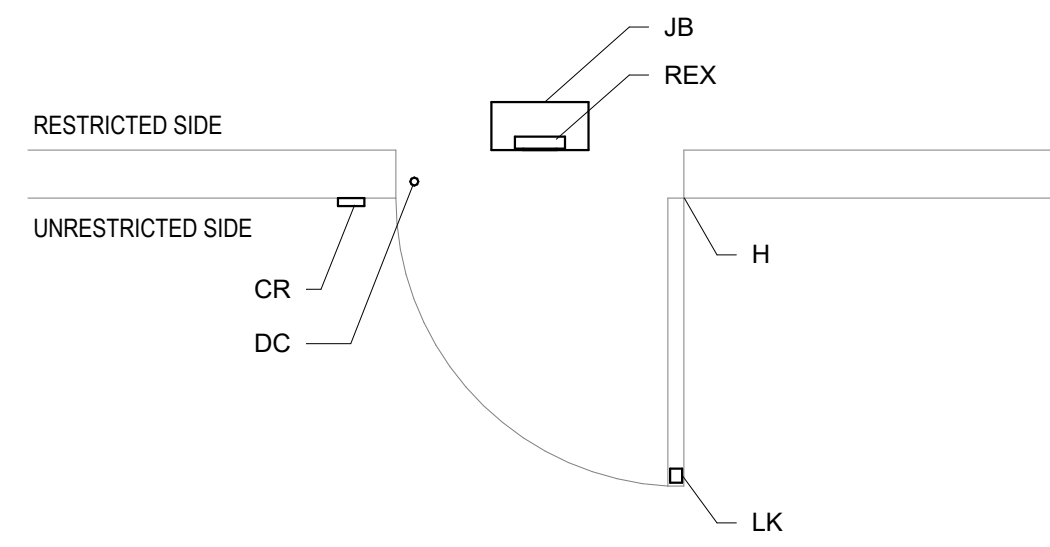
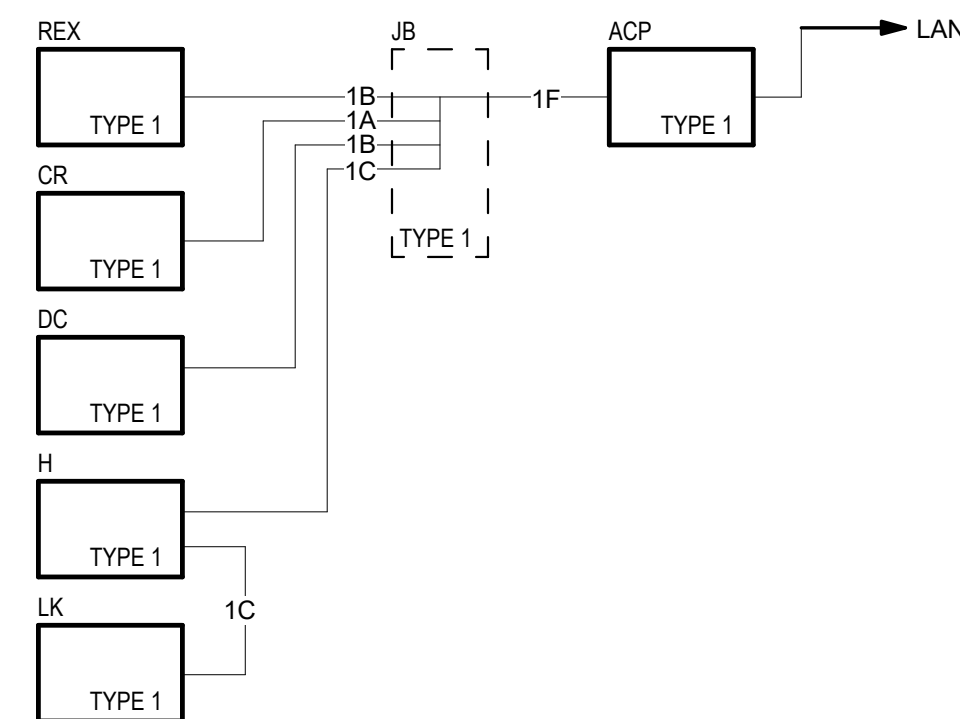
**CD ES19.74**



**3 PANIC BUTTON - DESK MOUNT**  
SCALE: NTS

SEQUENCE OF OPERATION:

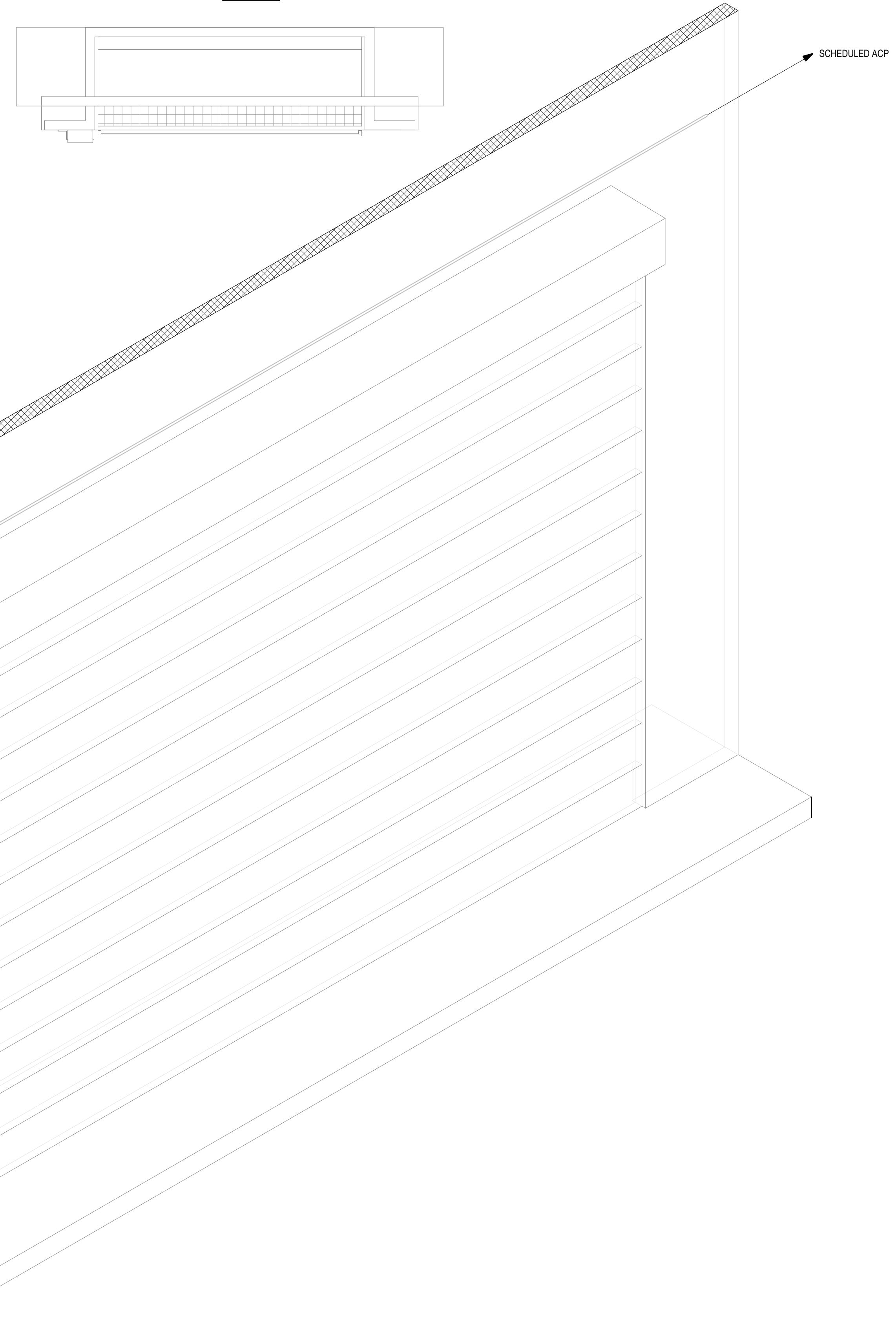
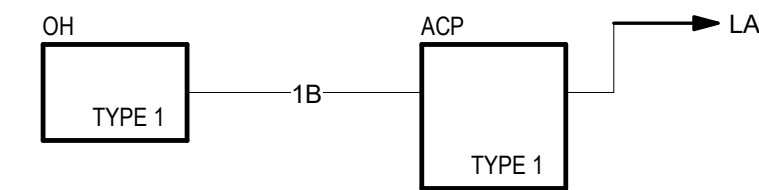
1. VALID CARD READ FROM UNRESTRICTED SIDE RELEASES THE DOOR FOR ENTRY AND SHUNTS THE DOOR CONTACT.
2. EGRESS FROM RESTRICTED SIDE ACTIVATES THE REQUEST TO EXIT SENSOR AND SHUNTS THE DOOR CONTACT.
3. COORDINATE WITH DIVISION 08.



**2 CARD READER - SINGLE DOOR**  
SCALE: NTS

SEQUENCE OF OPERATION:

1. THE DOOR TRIGGERS THE INPUT ON THE ACP WHEN OPENED.
2. NORMAL IN CLOSED STATE.



**1 OVERHEAD DOOR CONTACT**  
SCALE: NTS

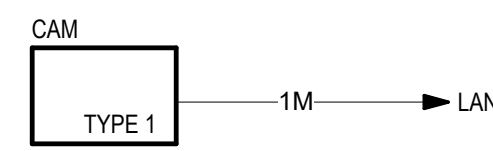


SCO PROJECT NO. 22-24384-01A  
NC STATE PROJ. NO. 202120015

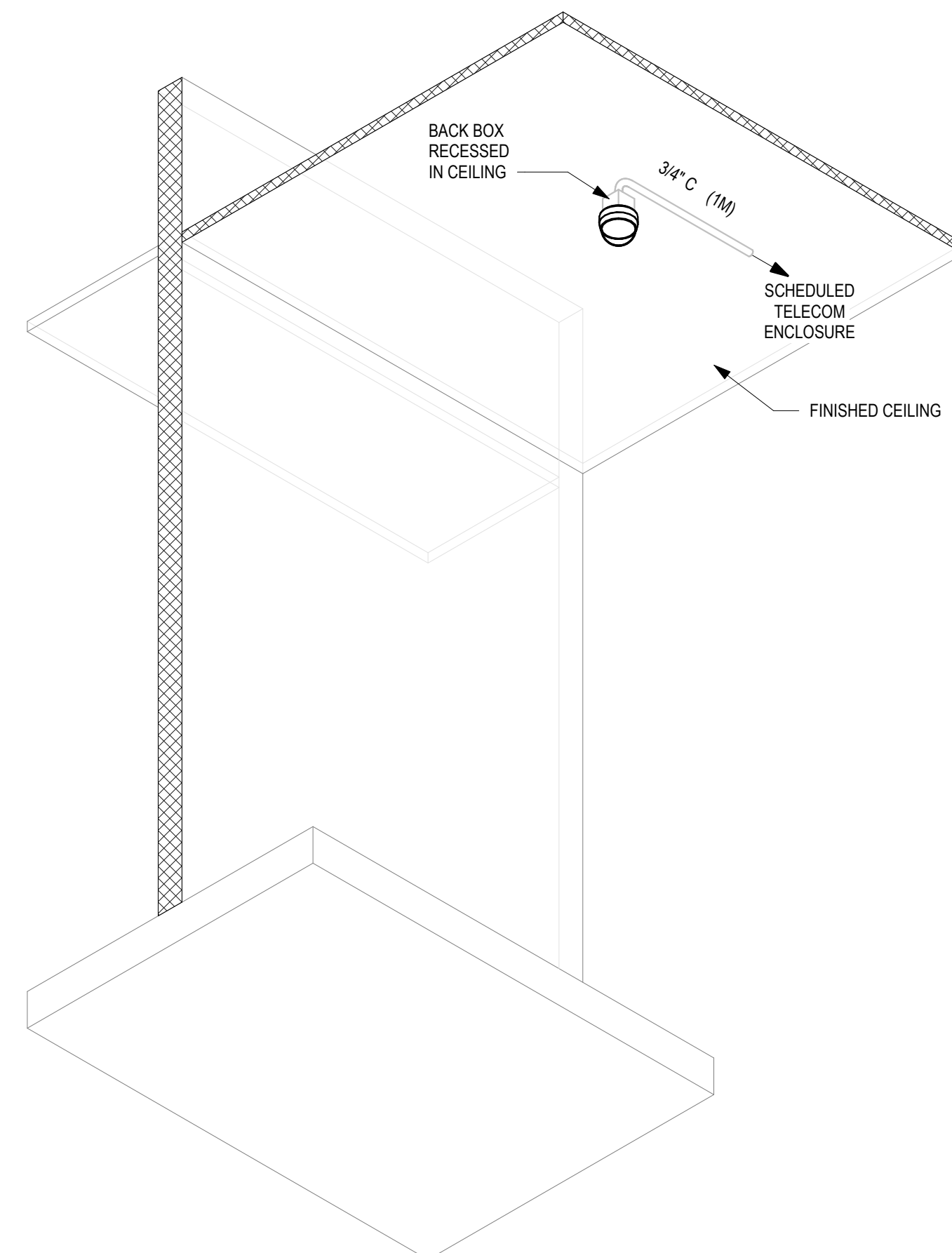
KEY PLAN

SEQUENCE OF OPERATION:

1. DATA FROM IDF POE SWITCH.



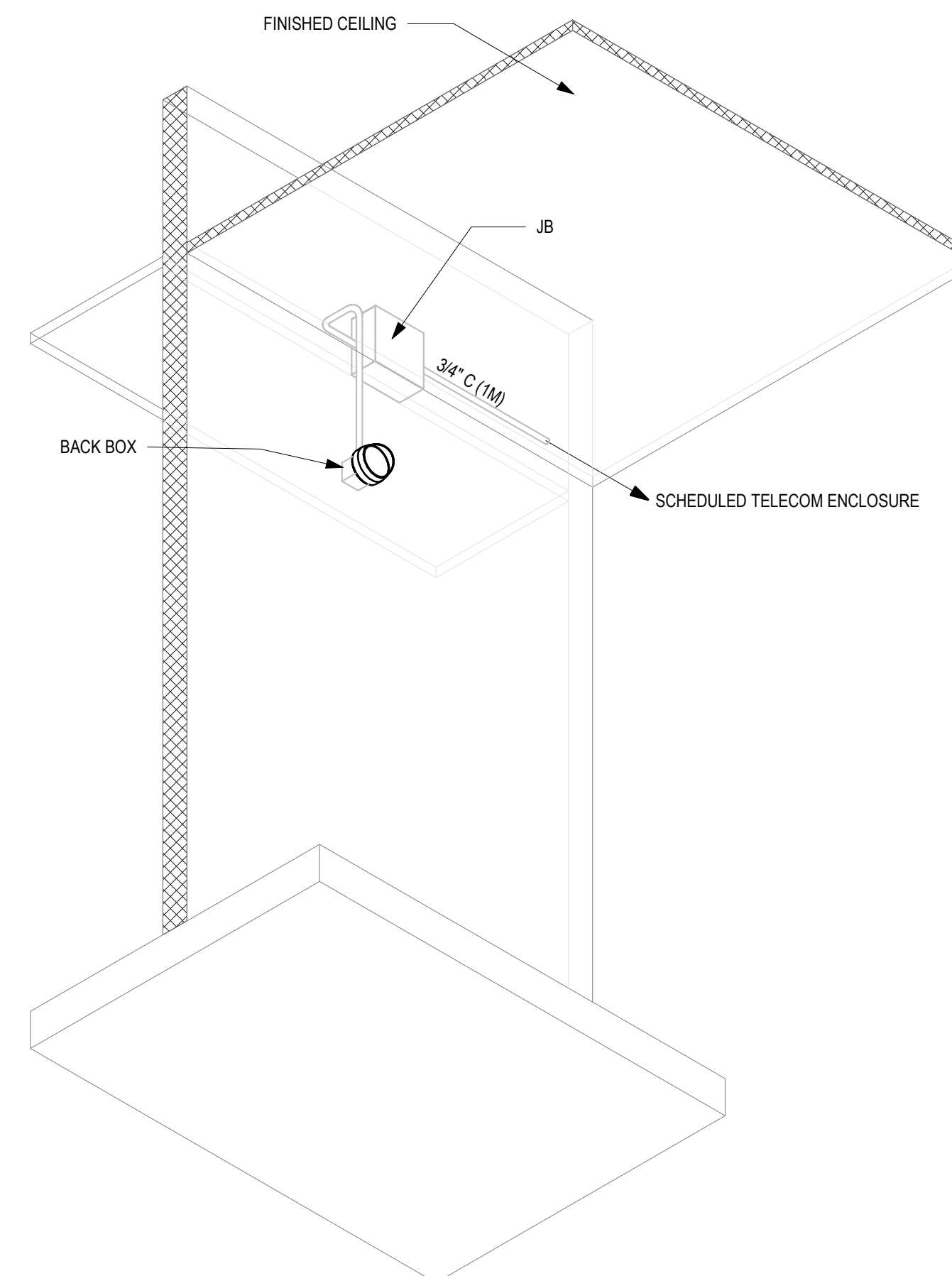
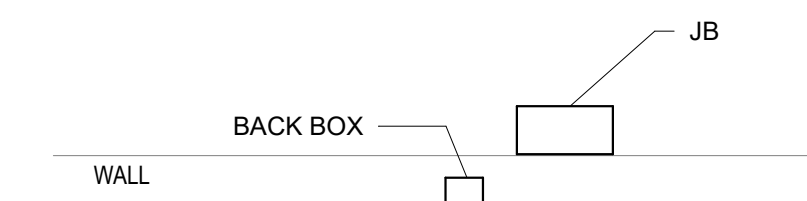
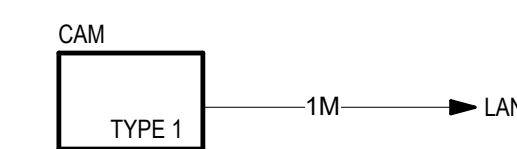
WALL



2 CAMERA DETAIL - CEILING MOUNT  
SCALE: NTS

SEQUENCE OF OPERATION:

1. DATA FROM IDF POE SWITCH.



1 CAMERA DETAIL - WALL MOUNT  
SCALE: NTS

REVISIONS

NO.	BY	DESCRIPTION	DATE
A	EC	PACKAGE A - LEFT & RIGHT FIELD ADDITIONS	01/31/2024
	EC	FIELD SERVICE BUILDING	10/06/2023

**NC STATE UNIVERSITY**

**DOAK FIELD ENHANCEMENT**  
1081 Varsity Dr  
Raleigh, NC 27706

DRAWN BY JS DATE 01/29/2024

PROJECT NO. 20220400 SCALE 1/2" = 1'-0"

DRAWING NAME

VIDEO SURVEILLANCE DETAILS

FLOOR/SECTION PHASE DRAWING NO.

**CD ES19.81**





PRINCIPAL  
WILLIAM MCCULLOUGH  
PROJECT MANAGER  
GEORGE BUSHEY

NO.	BY	DESCRIPTION	DATE
EC		PACKAGE A - LEFT & RIGHT FIELD ADDITIONS	01/29/2024
EC		RIGHT FIELD BUILDING	12/07/2023

**NC STATE UNIVERSITY**

**DOAK FIELD ENHANCEMENT**  
1081 Varsity Dr  
Raleigh, NC 27606

DRAWN BY: CSD DATE: 01/29/2024

PROJECT NO. 20220400 SCALE:

DRAWING NAME:

FIRE PROTECTION GENERAL NOTES

FLOOR/SECTION PHASE DRAWING NO.

**CD FPG.1**

FIRE PROTECTION DRAWING LIST	
FPG.1	FIRE PROTECTION GENERAL NOTES
FP2.1	FLOOR PLAN LEVEL 1 FIRE PROTECTION PLAN
FP2.2	FLOOR PLAN LEVEL 2 FIRE PROTECTION

FIRE PROTECTION SCOPE	
THE SPRINKLER SYSTEM IS LIMITED TO THE RIGHT FIELD LOCKER ROOMS/CONCESSION AREA AS SHOWN. THE LEFT FIELD CONCESSION AREA TYPE I HOOD HAS AN ANSUL SYSTEM WHICH WILL SHUT OFF NATURAL GAS TO THE APPLIANCES, BUT THERE IS NO OTHER FIRE PROTECTION	

FIRE PROTECTION FLOW DATA (01-19-2024)	
STATIC PRESSURE: 60 PSI RESIDUAL PRESSURE: 58 PSI DISCHARGE VOLUME: 1,240 GPM	

**CLASSIFICATION OF OCCUPANCY**

THE FIRE PROTECTION CONTRACTOR SHALL CONTACT THE OWNERS INSURANCE UNDERWRITER TO VERIFY THE "CLASSIFICATION OF OCCUPANCY" GOVERNING THE AREA OF WORK FOR THIS PROJECT.

**DESIGN CRITERIA NOTE**

THIS FIRE PROTECTION DRAWING INDICATES THE GENERAL LOCATION OF THE SPRINKLERS. THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR LAYING OUT ALL BRANCH LINE & ARM OVER PIPING IN CONFORMANCE WITH NFPA 13 STANDARDS. CONTRACTOR SHALL PERFORM HYDRAULIC CALCULATIONS FOR PIPE SIZING AND CONFIRM DESIGN DENSITIES AND SPRINKLER DISCHARGE CHARACTERISTICS WITH THE INSURANCE UNDERWRITER AND ANY OTHER AUTHORITY HAVING JURISDICTION. WORKING PLANS AND HYDRAULIC CALCULATIONS ARE TO BE SUBMITTED TO THE AUTHORITY HAVING JURISDICTION FOR APPROVAL PRIOR TO CONSTRUCTION.

BUILDING CONSTRUCTION CODE DATA	
CODE:	2018 NORTH CAROLINA PLUMBING CODE 2018 NORTH CAROLINA BUILDING CODE CITY OF DURHAM AMENDMENTS
SITE LOCATION:	DURHAM, NC
FIRE SUPPRESSION SYSTEM:	FULLY SPRINKLERED
WORK TO COMPLY WITH:	NFPA 13, 2015 EDITION

- GENERAL NOTES**
- THIS IS A STANDARD SYMBOL LIST. ALL DEVICE SYMBOLS, SPRINKLER CONSTRUCTION NOTES AND ABBREVIATIONS MAY NOT NECESSARILY APPEAR ON THE FLOOR PLAN OR DETAIL SHEETS. ONLY THOSE SYMBOLS INDICATED ON THE FLOOR PLANS ARE USED FOR THIS PROJECT. ALL OTHERS ARE TO BE CONSIDERED NOT USED AND SHOULD BE DISREGARDED.
  - THE BUILDING SHALL BE COMPLETELY SPRINKLERED.
  - THE FIRE SPRINKLER SYSTEM LAYOUT PRESENTED IN DRAWINGS IS FOR GENERAL PURPOSES ONLY. CONTRACTOR SHALL DETERMINE THE BEST LAYOUT BASED ON HYDRAULIC CALCULATIONS AND NFPA 13.
  - CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF SPRINKLER LAYOUT, DETAILS AND HYDRAULIC CALCULATIONS FOR AHJ REVIEW AND APPROVAL ONCE APPROVED BY ARCHITECT/ENGINEER.
  - PROVIDE COMPLETE DRAINAGE FACILITIES AND INSPECTORS TEST CONNECTIONS AND ELECTRIC MOTOR GONG IN ACCORDANCE WITH NFPA 13.
  - PIPE SUPPORTS SHALL CONFORM TO NFPA 13.
  - ALL FIRE PROTECTION EQUIPMENT, I.E. PIPING, VALVES, FITTINGS AND ACCESSORIES ETC., SHALL BE RATED FOR A MAXIMUM WORKING PRESSURE OF 175 P.S.I.
  - PROVIDE SEISMIC BRACING IN ACCORDANCE WITH NFPA 13.
  - ALL FIRE EQUIPMENT AND FIRE EQUIPMENT THREADS SHALL CONFORM TO LOCAL STANDARDS.
  - INSTALLATION OF SPRINKLER SYSTEMS SHALL BE COORDINATED WITH ALL MECHANICAL AND ELECTRICAL TRADES.
  - REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR BUILDING SECTIONS AND FRAMING.
  - PROVIDE PIPE SLEEVES AT ALL WALL AND FLOOR PENETRATIONS.
  - FIRE WALLS AND DOORS ARE RATED AS SHOWN ON THE ARCHITECTURAL DRAWINGS.
  - SPRINKLER SYSTEM SHALL BE WIRED TO BUILDING FIRE ALARM CONTROL PANEL. COORDINATE WITH BUILDING FIRE ALARM SYSTEM.
  - TYPE OF BUILDING CONSTRUCTION: NON-COMBUSTIBLE AS PER INTERNATIONAL BUILDING CODE.
  - DURING CONSTRUCTION THE CONTRACTOR SHALL COORDINATE WITH OWNER ANY TEMPORARY SHUT DOWN OF ANY FIRE PROTECTION SYSTEM.
  - FOR BIDDING PURPOSES UTILIZE THE FOLLOWING TEST INFORMATION:  
XX PSI: XX PSI @ XXXX GPM  
TEST HYDRANT: XXXX  
FLOW HYDRANT: XXXX
  - CONTRACTOR SHALL PERFORM A CONFIRMING WATER FLOW TEST PRIOR TO SYSTEM DESIGN.
  - SPRINKLER HEADS SHALL BE THE FOLLOWING TYPE:
    - PUBLIC LOBBIES, WAITING, OFFICES, HALLWAYS PROVIDE QUICK RESPONSE, CONCEALED HEADS IN CENTER OF CEILING.
    - ALL OTHER OCCUPIED AREAS PROVIDE SEMI RECESSED CHROME FINISHED QUICK RESPONSE HEADS IN CENTER OF CEILING.
    - AREAS WITHOUT FINISHED CEILINGS: PROVIDE AND INSTALL BRASS, UPRIGHT, OR PENDANT AUTOMATIC SPRINKLERS.
    - TEMPERATURE RATINGS AND LOCATION OF SPRINKLER HEADS NEAR HEAT SOURCES, SKYLIGHTS, UNINSULATED ROOFS, ETC TO BE PER NFPA 13.
    - PROVIDE POLISHED CHROME FLUSH PENDANT HEADS IN CLOAKROOMS.
    - PROVIDE DRY PENDANT SPRINKLER HEADS IN COLD ROOMS.
    - PROVIDE ESFR HEADS IN WAREHOUSE RACK STORAGE AREA.

**PLAN SYMBOLS**

	STANDPIPE PIPING
	WET SPRINKLER PIPING
	DRAIN LINE
	NEW SIDEWALL SPRINKLER HEAD
	NEW UPRIGHT SPRINKLER HEAD
	NEW CONCEALED SPRINKLER HEAD
	NEW SEMI-RECESSED SPRINKLER HEAD
	ELECTRIC BELL
	CHECK VALVE
	SPRINKLER FLOOR CONTROL STATION
	FIRE DEPARTMENT VALVE
	VALVE IN DROP
	SHUT-OFF VALVE
	O.S.&Y. VALVE WITH TAMPER SWITCH
	MONITORED FIRE VALVE
	FLOW SWITCH
	BACKFLOW PREVENTER
	PRESSURE GAGE & COCK
	DIRECTION OF FLOW
	DIRECTION OF DRAINAGE
	SIAMESE FIRE DEPARTMENT CONNECTION
	STORZ FIRE DEPARTMENT CONNECTION
	SERVICE RISER UP/DOWN
	ELBOW DOWN
	UNION OR FLANGED CONNECTION
	PIPE CAP
	POINT OF CONNECTION NEW TO EXISTING
	TERMINATION OF DEMOLITION REMOVAL
	STANDPIPE RISER DESIGNATION
	STANDPIPE RISER DESIGNATION

**ABBREVIATIONS**

A.F.C.	ABOVE FINISHED CEILING
A.F.F.	ABOVE FINISHED FLOOR
A.F.G.	ABOVE FINISHED GRADE
AHU	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
ARCH.	ARCHITECT
BFF	BACK FLOW PREVENTER
BLK	BLACK
CL	CENTERLINE
CLG.	Ceiling
CO	CLEANOUT
CONC.	CONCRETE
CONN.	CONNECTION
CONSTR.	CONSTRUCTION
CONTR.	CONTRACTOR
DEM.	DEMOLITION
DIA.	DIAMETER
DN	DOWN
DW	DOMESTIC WATER
DWG.	DRAWING
DSP	DRY STANDPIPE
(E)	EXISTING
E.C.	ELECTRICAL CONTRACTOR
ELEC.	ELECTRICAL
ELEV.	ELEVATOR
(R)	EXISTING RELOCATED
EQUP	EQUIPMENT
EXP	EXPOSED
FD	FLOOR DRAIN
FDG	FIRE DEPARTMENT CONNECTION
FDV	FIRE DEPARTMENT VALVE
FDVC	FIRE DEPARTMENT VALVE CABINET
FEC	FIRE EXTINGUISHER CABINET
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE RACK
FL	FLOOR
FP	FIRE PUMP
FS	FLOW SWITCH
FUT.	FUTURE
GA.	GALGE
G.C.	GENERAL CONTRACTOR
GPM	GALLON PER MINUTE
GWB	GYPSPUM WALL BOARD
HP	HORSEPOWER
HT	HEIGHT
HVAC	HEATING, VENTILATING, AIR CONDITIONING
ID.	INSIDE DIMENSION
ITC	INSPECTORS TEST CONNECTION
KW	KILOWATT
LT.	LIGHT
MAX.	MAXIMUM
MFR.	MANUFACTURER
MIN.	MINIMUM
MTD.	MOUNTED
(N)	NEW
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
N.T.S.	NOT TO SCALE
O.D.	OUTSIDE DIMENSION
OS&Y	OUTSIDE SCREW & YOK
P.C.	PLUMBING CONTRACTOR
P/V	POST INDICATOR VALVE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PT	PAINT
REQ.	REQUIRED
RPZ	REDUCED PRESSURE ZONE
SF	SQUARE FEET
SLV.	SLEEVE
SP	STANDPIPE
SPEC.	SPECIFICATION
SPR	SPRINKLER
STD.	STANDARD
SYST.	SYSTEM
TEMP.	TEMPERATURE
TS	TAMPER SWITCH
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
V	VOLT
WHT	WHITE
WP	WEATHERPROOF
WSP	WET STANDPIPE
+	DISTANCE DOWN FROM CEILING DISTANCE ABOVE FINISHED FLOOR

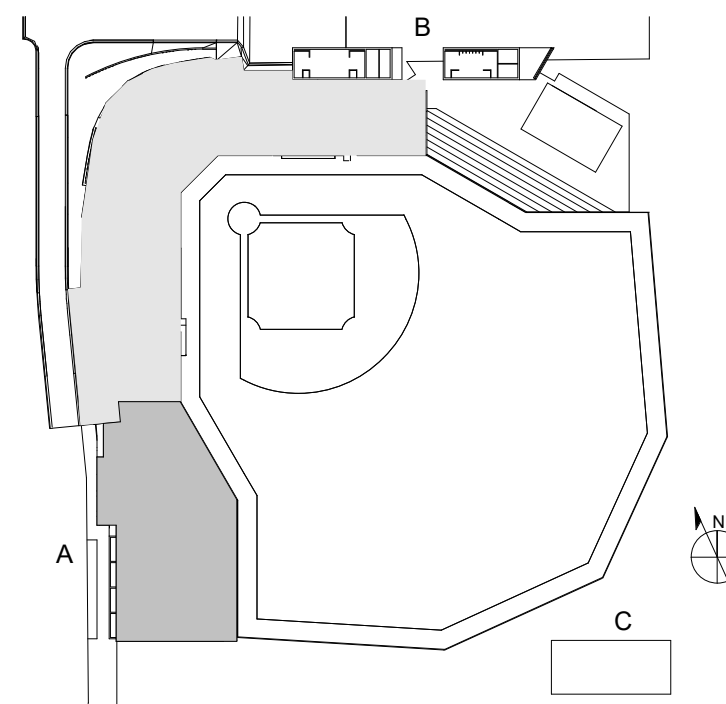
**DESIGN CRITERIA**

OCCUPANCY/AREA	HAZARD CATEGORIES	DENSITY (GPM / SQ. FT.)	HYDRAULIC DESIGN AREA (SQ. FT.)	MAX. SPRINKLER COVERAGE (SQ. FT.)	OUTSIDE HOSE DEMAND (GPM)	SYSTEM TYPE
OFFICES, PATIENT ROOMS, CORRIDORS, ETC	LIGHT HAZARD	0.10	1500	225	100	WET
MECHANICAL ROOMS, STORAGE, ETC	ORDINARY HAZARD	0.15	1500	130	250	WET



SCO PROJECT NO. 22-24384-01A  
NC STATE PROJ. NO. 202120015

KEY PLAN



PRINCIPAL  
WILLIAM MCCULLOUGH  
PROJECT MANAGER  
GEORGE BUSHEY



REVISIONS

NO.	BY	DESCRIPTION	DATE
EC		PACKAGE A - LEFT & RIGHT FIELD ADDITIONS	01/29/2024
EC		RIGHT FIELD BUILDING	12/07/2023

**NC STATE UNIVERSITY**

**DOAK FIELD ENHANCEMENT**  
1081 Varsity Dr  
Raleigh, NC 27608

DRAWN BY: CSD DATE: 01/29/2024

PROJECT NO. 20220400 SCALE: 1/8" = 1'-0"

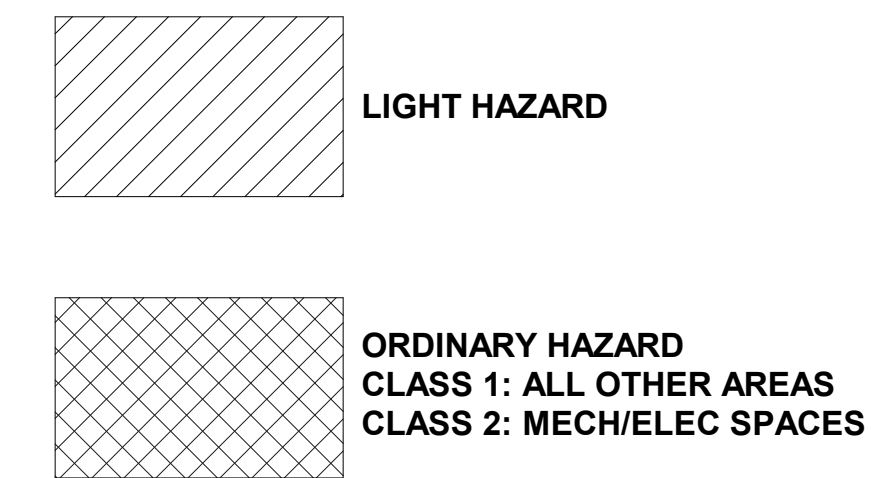
DRAWING NAME

FLOOR PLAN LEVEL 1

FLOOR/SECTION PHASE DRAWING NO.

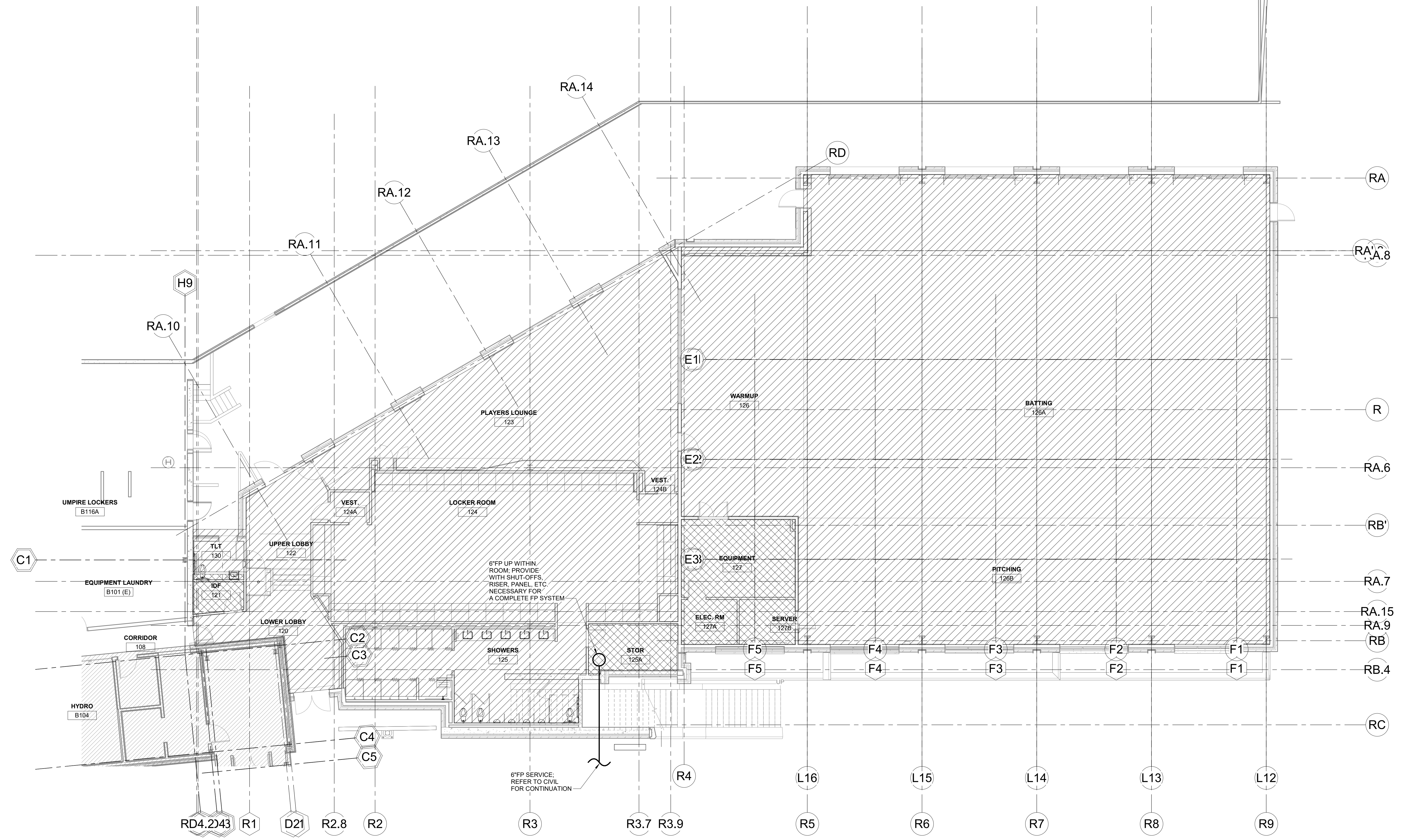
**CD FP2.1**

**HAZARD KEYPLAN:**



**FIRE PROTECTION NOTES:**

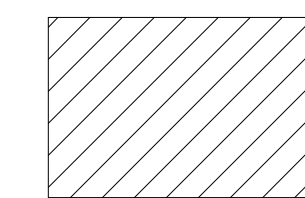
BATTING AND PITCHING SPACE IS DOUBLE-HEIGHT AREA. SPRINKLER HEADS SHALL BE PROVIDED IN THE HIGH BAY AND PROVIDED WITH PROTECTIVE CAGE SHIELDING.  
FIRE PROTECTION FOR NEW RIGHT FIELD BUILDING SHALL BE PROVIDED FROM NEW 6" SERVICE. CONTRACTOR SHALL OBTAIN NEW FLOW TEST AND PROVIDE HYDRAULIC CALCULATIONS TO MAKE THIS CONNECTION.



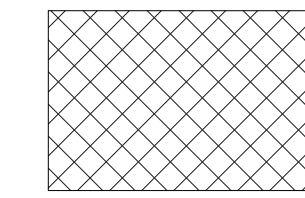
1 LEVEL 1 FIRE PROTECTION PLAN - RF  
SCALE: 1/8" = 1'-0"

1/30/2024 2:35:45 PM Autodesk Docs/20220400 - NCState-NC State Doak Field Enhance Stadium/20220400\_D22\_CENTRAL.rvt

**HAZARD KEYPLAN:**



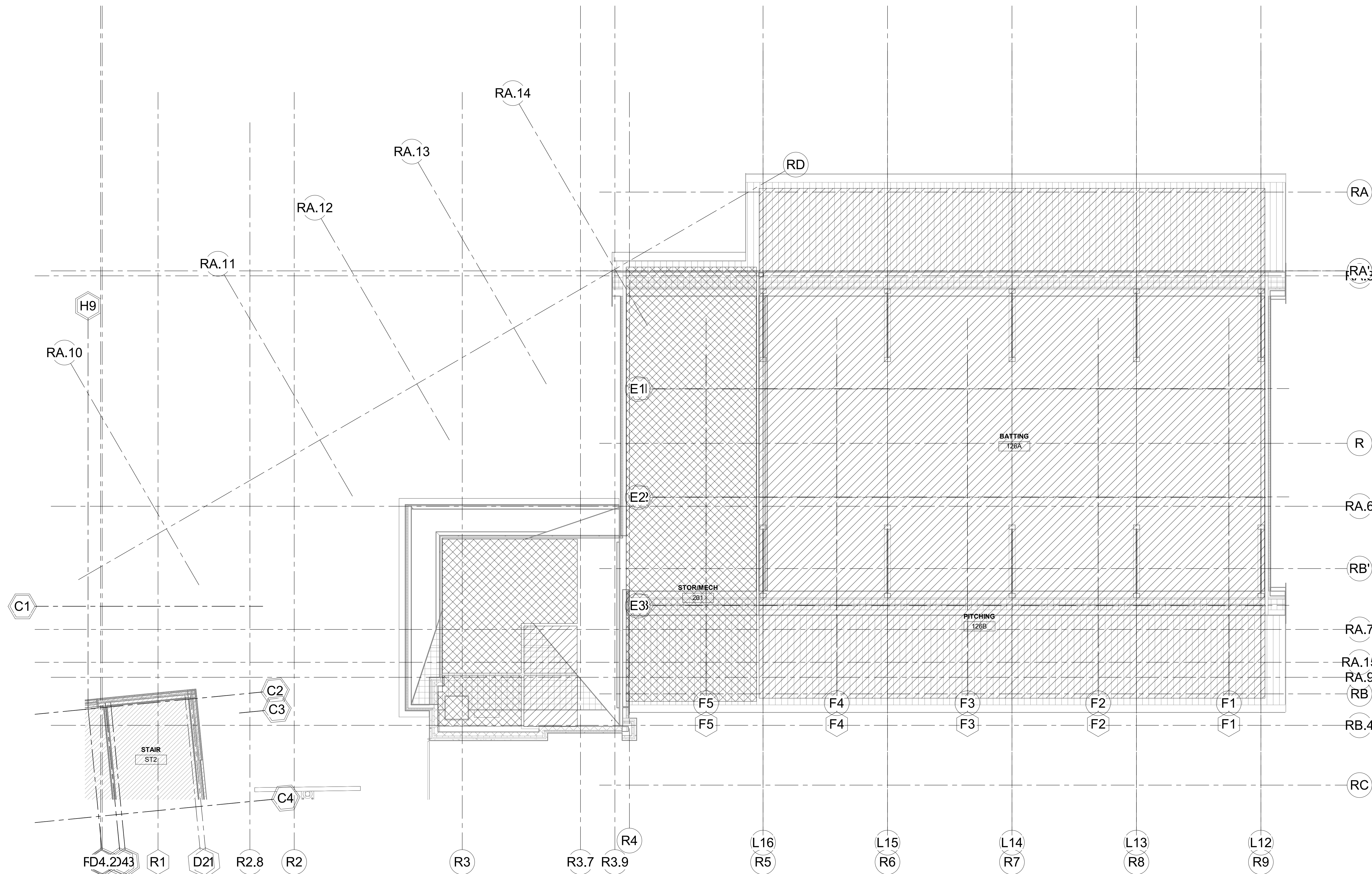
LIGHT HAZARD



ORDINARY HAZARD  
CLASS 1: ALL OTHER AREAS  
CLASS 2: MECH/ELEC SPACES

**FIRE PROTECTION NOTES:**

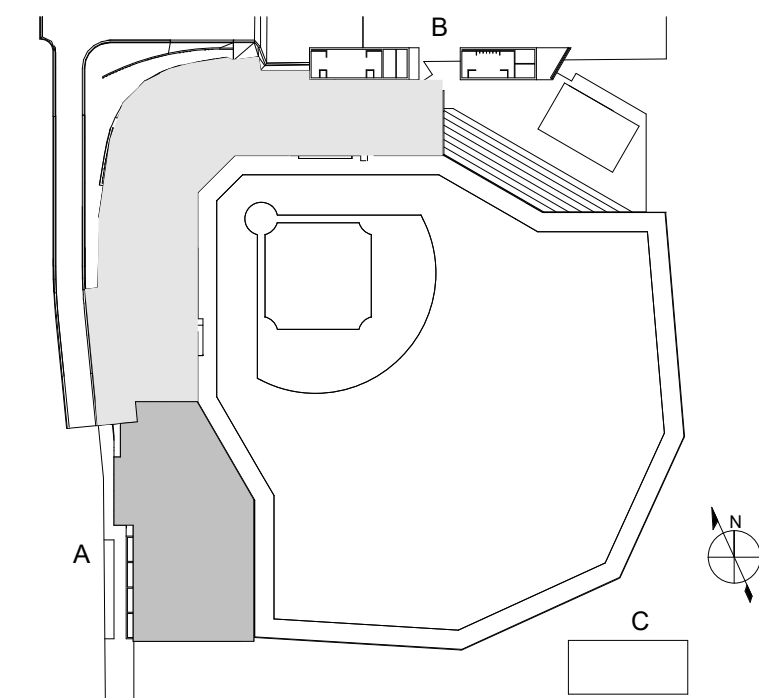
BATTING AND PITCHING SPACE IS DOUBLE-HEIGHT AREA. SPRINKLER HEADS SHALL BE PROVIDED IN THE HIGH BAY AND PROVIDED WITH PROTECTIVE CAGE SHIELDING.  
FIRE PROTECTION FOR NEW RIGHT FIELD BUILDING SHALL BE PROVIDED FROM NEW IF SERVICE CONTRACTOR SHALL OBTAIN NEW FLOW TEST AND PROVIDE HYDRAULIC CALCULATIONS TO MAKE THIS CONNECTION.



1 LEVEL 2 FIRE PROTECTION PLAN - RF  
SCALE: 1/8" = 1'-0"

SCO PROJECT NO. 22-24384-01A  
NC STATE PROJ. NO. 202120015

KEY PLAN



PRINCIPAL  
WILLIAM MCCULLOUGH  
PROJECT MANAGER  
GEORGE BUSHEY



REVISIONS

NO.	BY	DESCRIPTION	DATE
EC		PACKAGE A - LEFT & RIGHT FIELD ADDITIONS	01/29/2024
EC		RIGHT FIELD BUILDING	12/07/2023

NC STATE UNIVERSITY

DOAK FIELD ENHANCEMENT  
1081 Varsity Dr  
Raleigh, NC 27606

DRAWN BY Author DATE 01/29/2024

PROJECT NO. 20220400 SCALE 1/8" = 1'-0"

DRAWING NAME

FLOOR PLAN LEVEL 2

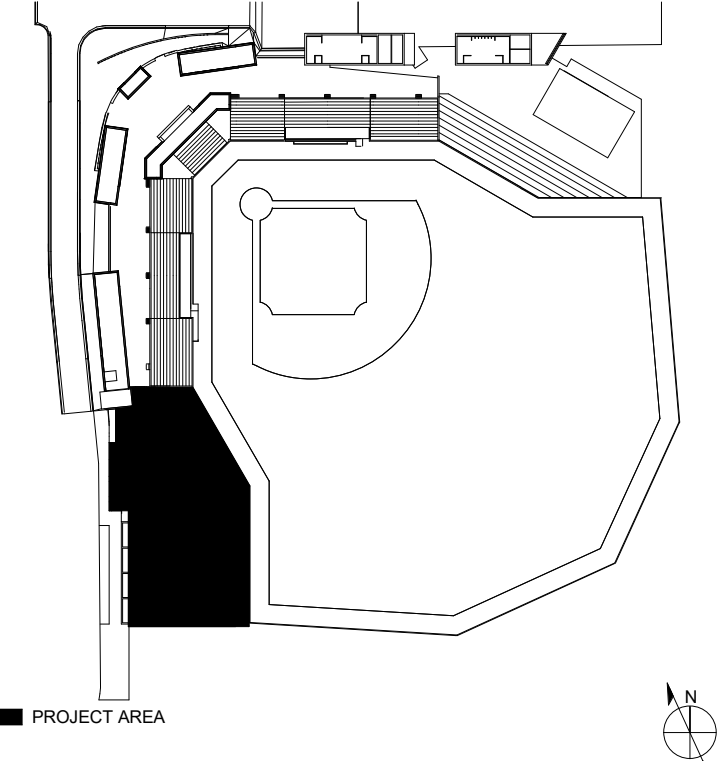
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CD FP2.2



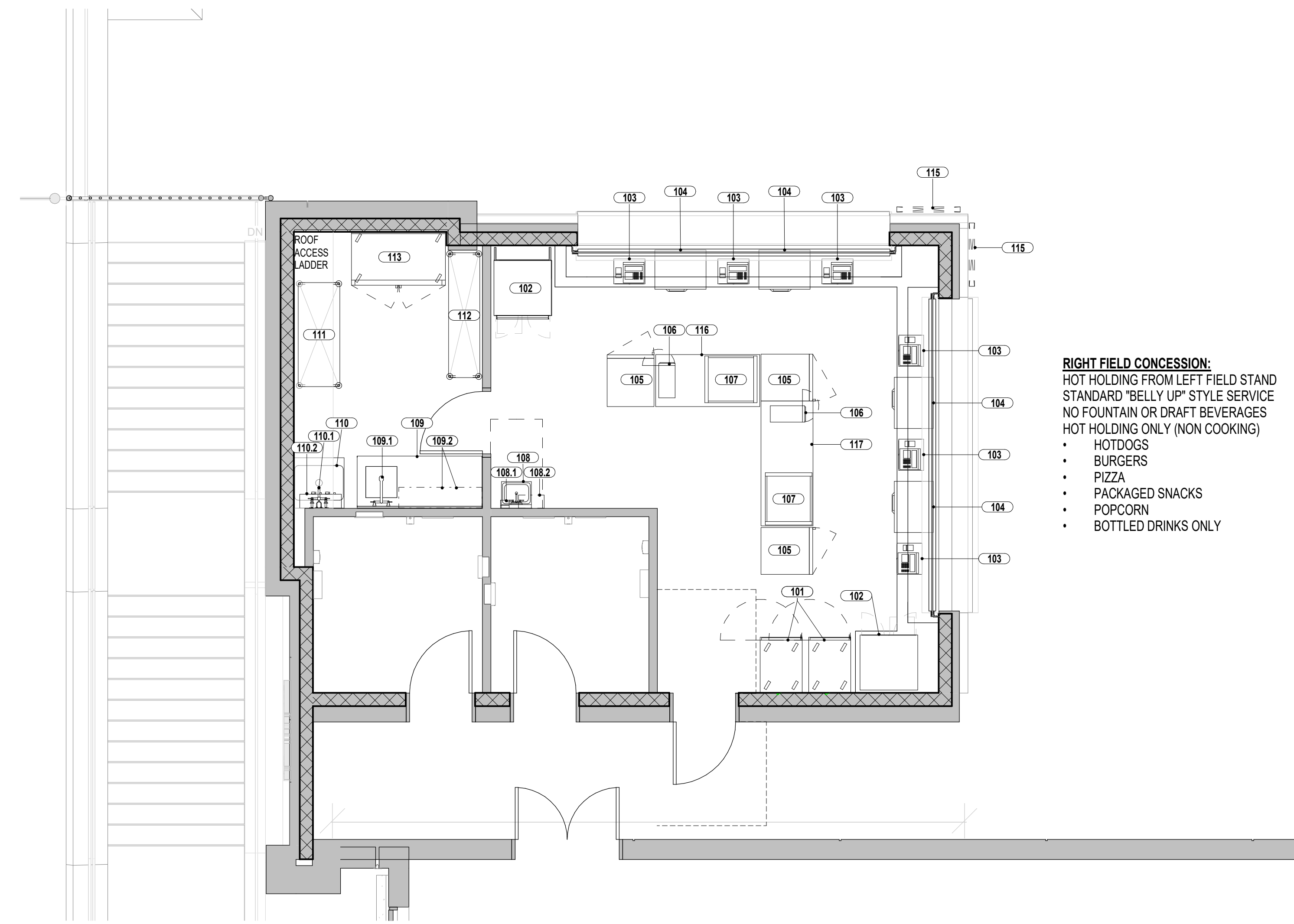
SCO PROJECT NO. 22-24384-01A  
NC STATE PROJ. NO. 202120015

KEY PLAN



- 11400: WORK INCLUDED IN THIS SECTION**
- FURNISH ALL LABOR, MATERIAL, SERVICES, AND SPECIFIED EQUIPMENT NECESSARY FOR THE COMPLETE INSTALLATION OF FOODSERVICE EQUIPMENT IN STRICT ACCORDANCE WITH SPECIFICATIONS, APPLICABLE DRAWINGS AND LOCAL CODES, INCLUDING THAT WHICH IS REASONABLY INFERRED, WITH ALL RELATED ITEMS NECESSARY TO COMPLETE WORK SHOWN ON CONTRACT DRAWINGS AND/OR REQUIRED BY THESE SPECIFICATIONS.
  - DELIVER ALL EQUIPMENT ON SCHEDULE. THE FOODSERVICE EQUIPMENT CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL ASPECTS OF THEIR WORK AS IT RELATES TO THE GENERAL CONTRACTOR, SUBCONTRACTORS, THE OWNER, OR ANY OTHER TRADES AS MAY BE DICTATED BY THE OWNER, ARCHITECT, OR CONSULTANT.
  - THE FOODSERVICE EQUIPMENT CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR VERIFYING ALL FIELD DIMENSIONS AS THEY PERTAIN TO THE WORK IN THIS SECTION.
  - CUTTING OF HOLES IN EQUIPMENT FOR PIPES, DRAINS, ELECTRIC OUTLETS, ETC., AS REQUIRED FOR THIS INSTALLATION. WORK SHALL CONFORM TO THE HIGHEST STANDARDS OF WORKMANSHIP AND SHALL INCLUDE WELDED SLEEVES, COLLARS, FERRULES OR ESCUTCHEONS. FOODSERVICE EQUIPMENT CONTRACTOR TO COMPLETELY COORDINATE ALL ASPECTS OF INSTALLATION WITH ALL TRADES FOR A COMPLETE AND THOROUGH INSTALLATION.
  - ALL WALL SLEEVES, CHROME PLATED COVER PLATES, VERMIN PROOFING, AND SEALING OF WALL SLEEVES FOODSERVICE EQUIPMENT CONTRACTOR TO PROVIDE. VERMIN PROOFING FOR ALL FLOOR SLEEVES IS U.S.S.
  - ALL WORK INVOLVED IN MAKING STANDS AND SUPPORTS FOR ALL SPECIFIED EQUIPMENT REQUIRING THEM.
  - REPAIR ALL DAMAGE TO THE PREMISES AS A RESULT OF THIS INSTALLATION AND DAILY REMOVAL OF ALL DEBRIS LEFT BY THE FOODSERVICE EQUIPMENT CONTRACTOR.
  - THE FOODSERVICE EQUIPMENT CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THEIR AREA ORDERLY DURING THE ENTIRE TIME OF INSTALLATION. FOODSERVICE EQUIPMENT AND FIXTURES SHALL BE CLEANED THOROUGHLY AND READY FOR OPERATION AT THE TIME THE BUILDING IS TURNED OVER TO THE OWNER.
  - BECOME FAMILIAR WITH AND ACCEPTS RESPONSIBILITY FOR COMPLIANCE WITH ALL APPLICABLE CODES AND REGULATIONS. IF AUTHORITIES HAVING JURISDICTION REQUIRE ANY PORTION OF THE EQUIPMENT TO BE INSPECTED, TESTED, OR APPROVED, THE FOODSERVICE EQUIPMENT CONTRACTOR AND/OR THEIR EQUIPMENT SUPPLIER SHALL BEAR ALL COSTS OF SUCH INSPECTIONS, TESTS OR APPROVALS.

- FOODSERVICE GENERAL NOTES:**
- ALL ITEMS OF FOODSERVICE EQUIPMENT SHALL BE FABRICATED AND INSTALLED IN STRICT ACCORDANCE WITH THE LATEST STANDARDS PUBLISHED BY THE NATIONAL SANITATION FOUNDATION (NSF) OR THE EQUIVALENT, AND IN STRICT COMPLIANCE WITH ALL APPLICABLE NATIONAL, STATE AND/OR LOCAL CODES AND STANDARDS.
  - WORK AND MATERIALS SHALL BE IN COMPLIANCE WITH REQUIREMENTS OF APPLICABLE CODES, ORDINANCES, AND REGULATIONS, INCLUDING BUT NOT LIMITED TO THOSE OF THE NATIONAL FIRE PROTECTION ASSOCIATION, STATE FIRE MARSHALL, STATE BOARD OF HEALTH, LOCAL HEALTH CODES, ETC.
  - ELECTRICALLY OPERATED AND/OR HEATED EQUIPMENT, FABRICATED OR OTHERWISE, SHALL CONFORM TO THE LATEST STANDARDS OF NATIONAL ELECTRIC MANUFACTURERS ASSOCIATION AND OF UNDERWRITERS LABORATORIES, INC., AND SHALL BEAR THE U.L. LABEL.
  - ALL STANDARD STEAM HEATED EQUIPMENT SHALL BE MANUFACTURED IN ACCORDANCE WITH A.S.I.E. CODE REQUIREMENTS AND CARRY THE A.S.I.E. STAMP.
  - NO EXTRA CHARGE WILL BE PAID FOR FURNISHING ITEMS REQUIRED BY THE REGULATIONS, BUT NOT SPECIFIED OR SHOWN ON THE DRAWINGS.
  - RULINGS AND INTERPRETATIONS OF ENFORCING AGENCIES SHALL BE CONSIDERED PART OF REGULATIONS.
  - GENERAL CONTRACTOR TO SITE VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
- DISCLAIMER:**
- THE FOODSERVICE EQUIPMENT PLANS AND SPECIFICATIONS ARE INTENDED TO ILLUSTRATE TYPES AND ARRANGEMENTS, INCLUDING SPACE AND UTILITY REQUIREMENTS, OF EQUIPMENT REQUIRED FOR THIS PROJECT REGARDING THE DESIRED FUNCTION AND PRODUCT FLOW, AND TO SERVE AS A REFERENCE TO THE LICENSED PROFESSIONAL ARCHITECT AND/OR ENGINEERS IN THE PREPARATION OF THEIR RESPECTIVE BID AND CONSTRUCTION DOCUMENTS. NO ARCHITECTURAL OR ENGINEERING DESIGN SERVICES ARE INTENDED OR ASSUMED.
- ERRORS AND OMISSIONS:**
- DESIGN DOCUMENTS INCLUDE DRAWINGS AND SPECIFICATIONS, WHICH SHOULD BE REASONABLY CORRECT, HOWEVER THEIR ACCURACY IS NOT GUARANTEED. SHOULD DISCREPANCIES OCCUR THEY SHALL BE BROUGHT TO THE ATTENTION OF THE FOODSERVICE CONSULTANT AND/OR PROJECT ARCHITECT IN ORDER FOR THE CONFLICT TO BE CLARIFIED IN AN OFFICIAL REQUEST FOR INFORMATION.
  - IT SHALL BE THE RESPONSIBILITY OF THE FOODSERVICE EQUIPMENT BIDDERS TO INFORM THE FOODSERVICE CONSULTANT OF ANY DISCREPANCIES FOUND WITHIN THESE DOCUMENTS TO INCLUDE: WRITTEN SPECIFICATIONS, DRAWINGS OR SCHEDULES, TO ALLOW AN OPPORTUNITY FOR THE CONSULTANT TO PREPARE AN ADDENDUM TO CORRECT SUCH DISCREPANCIES. BIDDING ON A KNOW DISCREPANCY WITH THE INTENTION OF EQUIPMENT SUBSTITUTION OR PRICE GOING THROUGH CHANGE ORDERS WILL NOT BE TOLERATED.
- EXISTING EQUIPMENT:**
- APPROPRIATE TRADES TO DISCONNECT FOODSERVICE EQUIPMENT ALLOCATED FOR RELOCATION OR REMOVAL.
  - ALL EXISTING H.V.A.C. SPRINKLERS AND OTHER SERVICES TO BE RELOCATED AS REQUIRED BY MECHANICAL AND ELECTRICAL ENGINEERS SHALL MEET ALL STANDARDS, CODES AND BYLAWS SET FORTH BY LOCAL GOVERNING AUTHORITIES.
  - FOOD SERVICE EQUIPMENT CONTRACTOR TO MOVE & SET IN PLACE THOSE ITEMS INDICATED AS RELOCATED.
  - ALL FOODSERVICE EQUIPMENT THAT IS SCHEDULED FOR REMOVAL SHALL BE TURNED OVER TO THE OWNER FOR DISPOSAL OR STORAGE AT THEIR DISCRETION.
  - THE DATA ON EXISTING EQUIPMENT IS THE BEST AVAILABLE AT THE TIME THESE DRAWINGS WERE PREPARED, AND IS OFFERED FOR PLANNING PURPOSES ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL DATA PRIOR TO RIGGING-IN UTILITIES FOR EXISTING EQUIPMENT.
  - EXISTING VENTILATORS MUST BE VERIFIED THEY WILL PERFORM PROPERLY FOR NEW EQUIPMENT INDICATED.
  - EXISTING FIRE SUPPRESSION SYSTEM MUST BE RECONFIGURED AS REQUIRED TO SUIT NEW COOKING EQUIPMENT INDICATED.



**RIGHT FIELD CONCESSION:**  
HOT HOLDING FROM LEFT FIELD STAND  
STANDARD 'BELLY UP' STYLE SERVICE  
NO FOUNTAIN OR DRAFT BEVERAGES  
HOT HOLDING ONLY (NON COOKING)

- HOTDOGS
- BURGERS
- PIZZA
- PACKAGED SNACKS
- POPCORN
- BOTTLED DRINKS ONLY

**RIGHT FIELD CONCESSION - EQUIPMENT PLAN**  
1/4" = 1'-0"

FOODSERVICE EQUIPMENT SCHEDULE					
ITEM NO.	QTY	DESCRIPTION	MANUFACTURER	MODEL	EQUIPMENT REMARKS
101	2	MOBILE HEATED CABINET	CARTER-HOFFMAN	PH1825	
102	2	POPCORN POPPER, 16 OZ	GOLD MEDAL	2119	
103	6	P.O.S.	PROVIDED BY OPERATIONS	TBD	
103.1	6	PRINTER, RECEIPT	PROVIDED BY OPERATIONS	TBD	
104	4	DRAWER WARMER	HATCO	HDW-2	
105	3	GLASS DOOR MERCHANDISER	PROVIDED BY OPERATIONS	TBD	
106	2	NACHO CHEESE DISPENSER	STAR MANUFACTURING	HPDE1H	
107	2	HEATED SHELF	HATCO	GR252H-2ND	
108	1	HAND SINK	ADVANCE TABCO	7-PS-60	
108.1	1	SOAP DISPENSER	PROVIDED BY OPERATIONS	TBD	
108.2	1	PAPER TOWEL DISPENSER	PROVIDED BY OPERATIONS	TBD	
109	1	S/S WORKTABLE WITH SINK	ADVANCE TABCO	DL-30-72	
108.1	1	FAUCET, PRE-RINSE	T&S BRASS	B-0133-B	
109.2	2	SHELF, WALL MOUNTED	ADVANCE TABCO	WS-21-48-16	MOUNT FIRST AT 60" A.F.F., SECOND AT 72"
110	1	MOP SINK	ADVANCE TABCO	9-OP-48	
110.1	1	SERVICE FAUCET	T&S BRASS	B-0655-B8TP	
110.2	1	MOP HOLDER/CHEMICAL SHELF	ADVANCE TABCO	US0824-163	
111	1	WIRE SHELVING	METRO	2460N3	4-TIER, 73 7/8" POST, CASTERS
112	1	WIRE SHELVING	METRO	1872N3	4-TIER, 73 7/8" POST, CASTERS
113	1	REACH-IN REFRIGERATOR	TRUE	T-485-HC-F0001	
115	2	42" (16.9") LED SCREEN	PROVIDED BY OPERATIONS	TBD	
116	1	WORK TABLE	ADVANCE TABCO	MS-305	
117	1	WORK TABLE	Advance Tabco	MS-306	

REVISIONS

NO.	DESCRIPTION	DATE

VBD PACKAGE A - LEFT & RIGHT FIELD ADDITIONS 1/29/2024

**NC STATE UNIVERSITY**  
DOAK FIELD ENHANCEMENT  
1081 Varsity Dr  
Raleigh, NC 27606

DRAWN BY TET DATE 01/22/2024

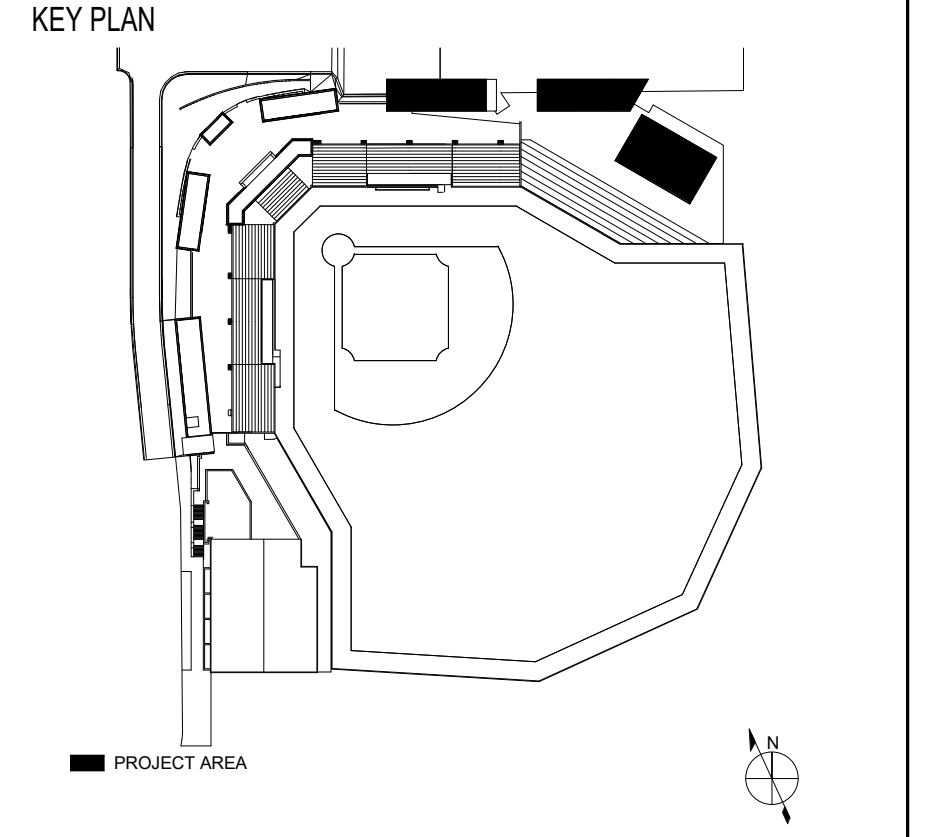
PROJECT NO. 20220400 SCALE As indicated

DRAWING NAME FS EQUIPMENT PLAN - RIGHT FIELD CONCESSION

FLOOR/SECTION PHASE DRAWING NO.  
**FD2 Q100**



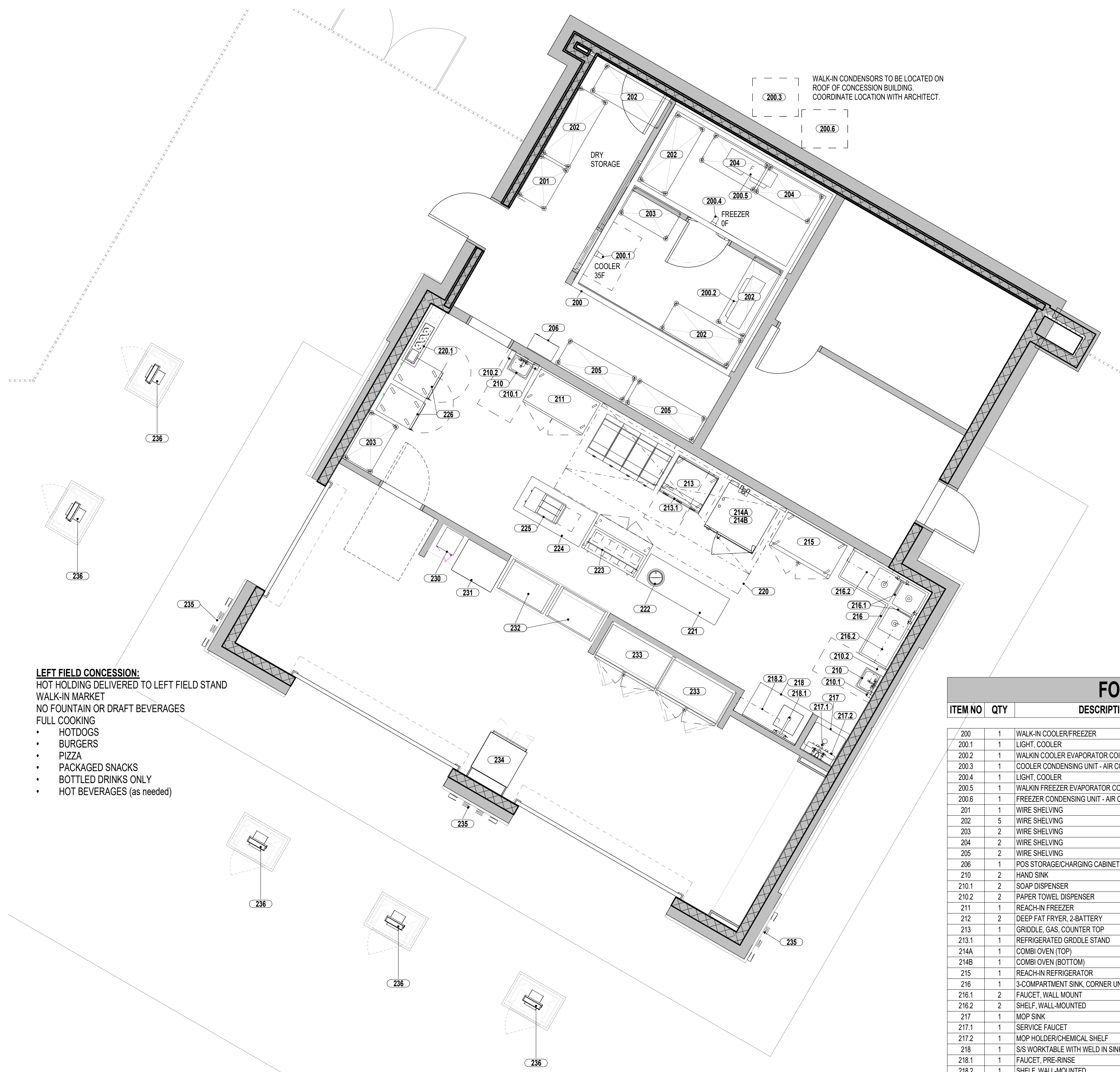
SCO PROJECT NO. 22-24384-01A  
NC STATE PROJ. NO. 202120015



- 11400: WORK INCLUDED IN THIS SECTION**
- FURNISH ALL LABOR, MATERIAL, SERVICES, AND SPECIFIED EQUIPMENT, NECESSARY FOR THE COMPLETE INSTALLATION OF FOODSERVICE EQUIPMENT IN STRICT ACCORDANCE WITH SPECIFICATIONS, APPLICABLE DRAWINGS AND LOCAL CODES, INCLUDING THAT WHICH IS REASONABLY INFERRED, WITH ALL RELATED ITEMS NECESSARY TO COMPLETE WORK SHOWN ON CONTRACT DRAWINGS AND/OR REQUIRED BY THESE SPECIFICATIONS.
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  - THE FOODSERVICE EQUIPMENT CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR VERIFYING ALL FIELD DIMENSIONS AS THEY PERTAIN TO THE WORK IN THIS SECTION.
  - CUTTING OF HOLES IN EQUIPMENT FOR PIPES, DRAINS, ELECTRIC OUTLETS, ETC. AS REQUIRED FOR THIS INSTALLATION. WORK SHALL CONFORM TO THE HIGHEST STANDARDS OF WORKMANSHIP AND SHALL INCLUDE WELDED SLEEVES, COLLARS, FERRULES OR ESCUTCHEONS. FOODSERVICE EQUIPMENT CONTRACTOR TO COMPLETELY COORDINATE ALL ASPECTS OF INSTALLATION WITH ALL TRADES FOR A COMPLETE AND THOROUGH INSTALLATION.
  - ALL WALL SLEEVES, CHROME PLATED COVER PLATES, VERMIN PROOFING, AND SEALING OF WALL SLEEVES FOODSERVICE EQUIPMENT CONTRACTOR TO PROVIDE VERMIN PROOFING FOR ALL FLOOR SLEEVES HE USES.
  - ALL WORK INVOLVED IN MAKING STANDS AND SUPPORTS FOR ALL SPECIFIED EQUIPMENT REQUIRING THEM.
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  - ELECTRICALLY OPERATED AND/OR HEATED EQUIPMENT, FABRICATED OR OTHERWISE, SHALL CONFORM TO THE LATEST STANDARDS OF NATIONAL ELECTRIC MANUFACTURERS ASSOCIATION AND OF UNDERWRITERS LABORATORIES, INC. AND SHALL BEAR THE U.L. LABEL.
  - ALL STANDARD STEAM-HEATED EQUIPMENT SHALL BE MANUFACTURED IN ACCORDANCE WITH A.S.M.E. CODE REQUIREMENTS AND CARRY THE A.S.M.E. STAMP.
  - NO EXTRA CHARGE WILL BE PAID FOR FURNISHING ITEMS REQUIRED BY THE REGULATIONS, BUT NOT SPECIFIED OR SHOWN ON FOUNDATION, ETC.
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  - EXISTING VENTILATORS MUST BE DESIRED THEY WILL PERFORM PROPERLY FOR NEW EQUIPMENT INDICATED.
  - EXISTING FIRE SUPPRESSION SYSTEM MUST BE RECONFIGURED AS REQUIRED TO SUIT NEW COOKING EQUIPMENT INDICATED.

REMOTE REFRIGERATION CONDENSING UNITS SHOWN FOR INFORMATIONAL PURPOSES ONLY. ACTUAL LOCATION TO BE DETERMINED BY FIELD CONDITIONS AND BUILDING STRUCTURE IN KEEPING WITH ALL REQUIREMENTS OF SPECIFICATIONS.



**LEFT FIELD CONCESSION:**  
HOT HOLDING DELIVERED TO LEFT FIELD STAND  
WALK-IN MARKET  
NO FOUNTAIN OR DRAFT BEVERAGES  
FULL COOKING  
• HOTDOGS  
• BURGERS  
• PIZZA  
• PACKAGED SNACKS  
• BOTTLED DRINKS ONLY  
• HOT BEVERAGES (as needed)

**1 LEFT FIELD CONCESSION - EQUIPMENT PLAN**  
1/4" = 1'-0"

**FOODSERVICE EQUIPMENT SCHEDULE**

ITEM NO	QTY	DESCRIPTION	MANUFACTURER	MODEL	EQUIPMENT REMARKS
200	1	WALK-IN COOLER/FREEZER	AMERICAN PANEL	CUSTOM	
200.1	1	LIGHT COOLER	AMERICAN PANEL	CUSTOM	REFER TO DETAIL SHEET Q5XX
200.2	1	WALKIN COOLER EVAPORATOR COIL	-	-	
200.3	1	COOLERS CONDENSING UNIT - AIR COOLED	-	-	
200.4	1	LIGHT COOLER	AMERICAN PANEL	CUSTOM	REFER TO DETAIL SHEET Q5XX
200.5	1	WALKIN FREEZER EVAPORATOR COIL	-	-	
200.6	1	FREEZER CONDENSING UNIT - AIR COOL	AMERICAN PANEL	CUSTOM	
201	1	WIRE SHELVING	METRO	2480NK3	4-TIER, 73 7/8" POST, CASTERS
202	5	WIRE SHELVING	METRO	2480NK3	4-TIER, 73 7/8" POST, CASTERS
203	2	WIRE SHELVING	METRO	2442NK3	4-TIER, 73 7/8" POST, CASTERS
204	2	WIRE SHELVING	METRO	2448NK3	4-TIER, 73 7/8" POST, CASTERS
205	2	WIRE SHELVING	METRO	2160NK3	4-TIER, 73 7/8" POST, CASTERS
206	1	POS STORAGE/CHARGING CABINET	PROVIDED BY OPERATIONS	TBD	
210	2	HAND SINK	ADVANCE TABCO	7-PS-60	
210.1	2	SOAP DISPENSER	PROVIDED BY OPERATIONS	TBD	
210.2	2	PAPER TOWEL DISPENSER	PROVIDED BY OPERATIONS	TBD	
211	1	REACH-IN FREEZER	TRUE FOOD SERVICE EQUIPMENT, INC.	T40F-HC	
212	2	DEEP FAT FRYER, 2-BATTERY	VULCAN	21K45HF	
213	1	GRIDDLE, GAS, COUNTER TOP	VULCAN	MSA38	
213.1	1	REFRIGERATED GRIDDLE STAND	TRUE FOOD SERVICE EQUIPMENT, INC.	TRCB-38	
214A	1	COMBI OVEN (TOP)	ALTO-SHAAM	CTC7-20G	
214B	1	COMBI OVEN (BOTTOM)	ALTO-SHAAM	CTC7-20G	
215	1	REACH-IN REFRIGERATOR	TRUE	T480-HC-FSD01	
216	1	3-COMPARTMENT SINK, CORNER UNIT	ADVANCE TABCO	94-K2-240	
216.1	2	FAUCET, WALL MOUNT	T&S BRASS	B-0231	
216.2	2	SHELF, WALL-MOUNTED	ADVANCE TABCO	WS-12-36-16	MOUNT AT 60" AFF
217	1	MOP SINK	ADVANCE TABCO	B-0P-48	
217.1	1	SERVICE FAUCET	T&S BRASS	B-0555-BSTP	
217.2	1	MOP HOLDER/CHEMICAL SHELF	ADVANCE TABCO	US924-163	
218	1	SS WORKTABLE WITH WELD IN SINK	ADVANCE TABCO	KMS-11B-304L	
218.1	1	FAUCET, PRE-RINSE	T&S BRASS	B-0133-B	
218.2	1	SHELF, WALL-MOUNTED	ADVANCE TABCO	WS-12-36-16	MOUNT FIRST AT 60" A.F.F., SECOND AT 72"
220	1	EXHAUST HOOD	CAPTIVE-AIRE	ND-PSP	REFER TO DETAIL SHEET Q901
220.1	1	HOOD FIRE SUPPRESSION SYSTEM	ANSUL	R-102	WET CHEMICAL
221	1	WORK TABLE	ADVANCE TABCO	MS-246	
222	1	NACHO CHEESE WARMER	VOLLRATH	74110110	
223	1	SANDWICH/SLAD PREP REFRIGERATOR	TRUE	T33U-48-14HC	
224	1	WORK TABLE	ADVANCE TABCO	MS-305	
225	1	FRY DUMP WARMER	CARTER-HOFFMANN	CN119	
226	2	MOBILE HEATED CABINET	CARTER-HOFFMANN	PH1825	
230	1	PRETZEL WARMER	NEBICO	6403	
231	1	3oz POPCORN MACHINE	GOLD MEDAL	201161NB	
232	2	HEATED SLIDE	HATCO	GR25DS-36D	
233	2	REACH-MERCHANDISER, REFRIGERATED	PROVIDED BY OPERATIONS	TBD	
234	1	POPCORN POPPER, 16 OZ	GOLD MEDAL	2119	
235	3	8" (16.9) LED SCREEN	PROVIDED BY OPERATIONS	TBD	
236	5	POS WORKSTATION	PROVIDED BY OPERATIONS	TBD	

REVISIONS

NO.	DESCRIPTION	DATE
VBD	PACKAGE A - LEFT & RIGHT FIELD ADDITIONS	1/29/2024

**NC STATE UNIVERSITY**  
DOAK FIELD ENHANCEMENT  
1081 Varsity Dr  
Raleigh, NC 27606

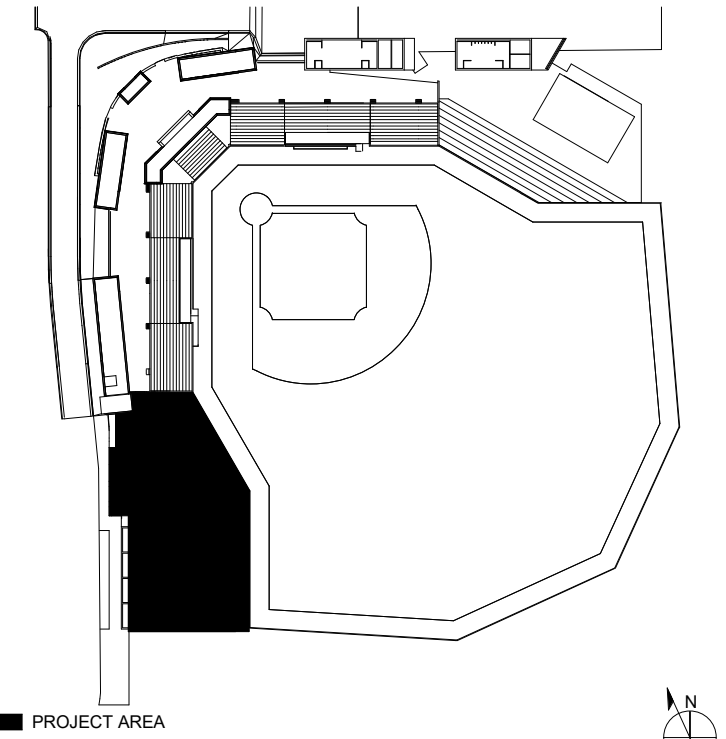
DRAWN BY: TET DATE: 01/22/2024  
PROJECT NO.: 20220400 SCALE: As indicated  
DRAWING NAME: FS EQUIPMENT PLAN - LEFT FIELD CONCESSION

FLOOR/SECTION PHASE: FD2 DRAWING NO.: Q101



SCO PROJECT NO. 22-24384-01A  
NC STATE PROJ. NO. 202120015

KEY PLAN



REVISIONS

NO.	DESCRIPTION	DATE

VBD PACKAGE A - LEFT & RIGHT FIELD ADDITIONS 1/29/2024

NO. BY DESCRIPTION DATE

**NC STATE UNIVERSITY**

**DOAK FIELD ENHANCEMENT**  
1081 Varsity Dr  
Raleigh, NC 27606

DRAWN BY TET DATE 01/22/2024

PROJECT NO. 20220400 SCALE As indicated

DRAWING NAME

FS ELECTRICAL PLAN - RIGHT FIELD CONCESSION

FLOOR/SECTION PHASE DRAWING NO.

**FD2 Q200**

**FOODSERVICE ELECTRICAL NOTES**

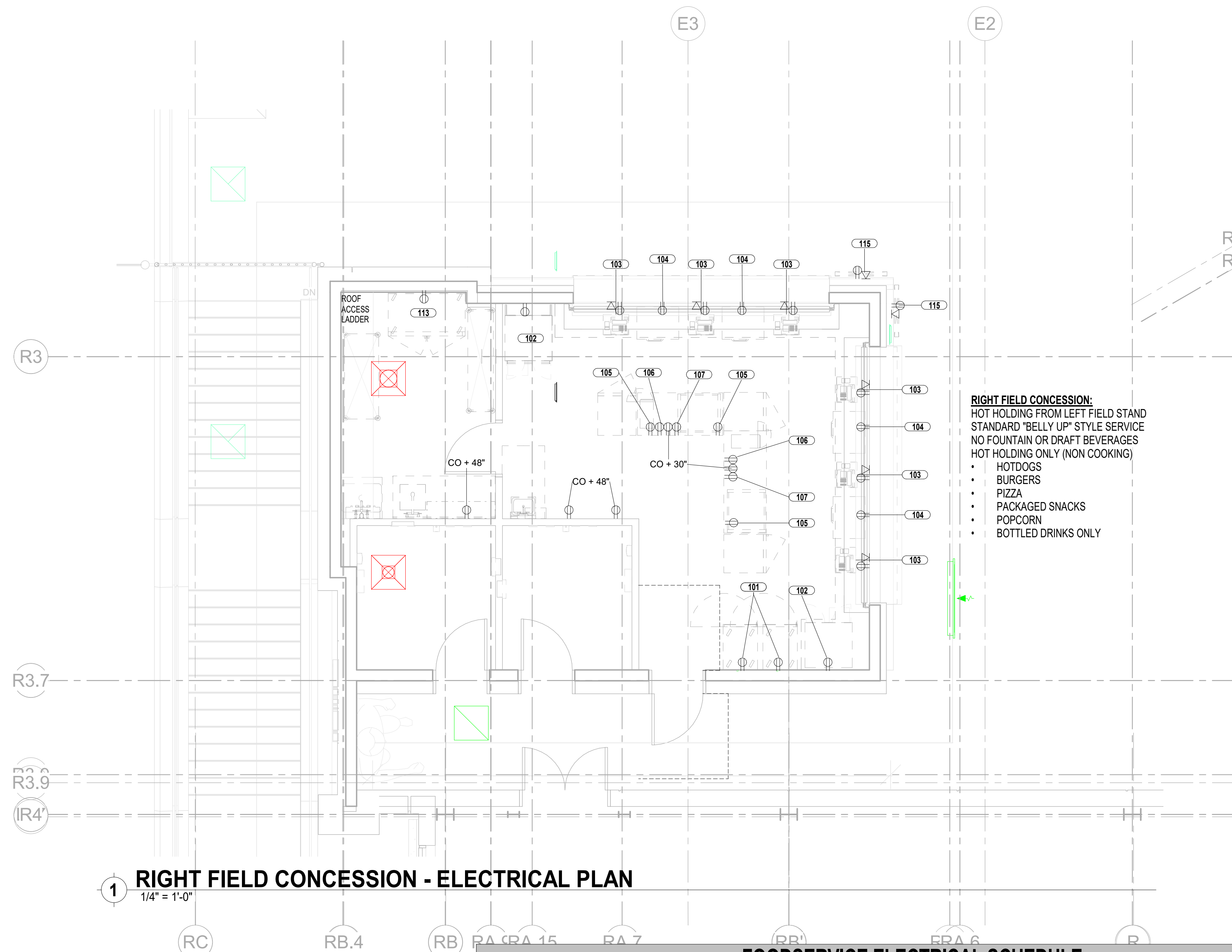
- THIS ELECTRICAL PLAN AND COORDINATING SCHEDULE IS INTENDED TO SHOW ROUGH-IN LOCATIONS AND HEIGHTS, CONNECTION TYPES, POSITIONS, FIXTURE TYPES AND LOAD REQUIREMENTS FOR FOODSERVICE EQUIPMENT SPECIFIED AND FOODSERVICE EQUIPMENT THAT IS SCHEDULED FOR RE-USE. THIS ELECTRICAL PLAN IS INTENDED TO SHOW ELECTRICAL REQUIREMENTS AND APPROXIMATE ROUGH-IN LOCATIONS ONLY. DO NOT USE FOR ACTUAL ROUGH-IN. FOR FINAL ROUGH-IN LOCATIONS SEE DIMENSIONED PLANS PROVIDED BY FOODSERVICE EQUIPMENT CONTRACTOR. UTILITY REQUIREMENTS INDICATED ARE TO SERVE AS A REFERENCE TO THE LICENSED PROFESSIONAL ARCHITECT AND/OR ENGINEERS IN THE PREPARATION OF THEIR RESPECTIVE BID AND CONSTRUCTION DOCUMENTS. NO ARCHITECTURAL OR ENGINEERING DESIGN SERVICES ARE INTENDED OR ASSUMED.
  - ELECTRICAL LOADS ARE BASED ON MANUFACTURER'S INFORMATION, MINIMUM CIRCUIT AMPACITY AND OVERCURRENT PROTECTION TO BE DETERMINED BY CODE REQUIREMENTS AND/OR MANUFACTURER'S DIRECTIONS.
  - SHOULD DISCREPANCIES OCCUR THEY SHALL BE BROUGHT TO THE ATTENTION OF THE FOODSERVICE CONSULTANT AND/OR PROJECT ARCHITECT/ENGINEER IN ORDER FOR THE CONFLICT TO BE CLARIFIED IN AN OFFICIAL REQUEST FOR INFORMATION.
  - ALL EXPOSED UTILITY LINES AND PIPES SHALL BE INSTALLED IN A WAY THAT DOES NOT OBSTRUCT OR PREVENT THE CLEANING OF FLOORS, WALLS AND CEILING AREA. 1 TO 2 INCHES OFF WALLS AND MINIMUM 6" OFF FLOORS.
  - ALL ELECTRICAL WORK, LABOR AND MATERIAL, REQUIRED TO INSTALL THIS EQUIPMENT IS TO BE FURNISHED BY ELECTRICAL CONTRACTOR UNLESS SPECIFICALLY CALLED FOR IN FOODSERVICE DOCUMENTS. ELECTRICAL CONTRACTOR IS TO INCLUDE ROUGH-IN TO POINTS INDICATED ON ROUGH-IN PLANS, FINAL CONNECTIONS FROM ROUGH-IN POINTS TO VARIOUS PIECES OF EQUIPMENT REQUIRING SUCH CONNECTIONS, AND THE SUPPLYING OF ALL NECESSARY MATERIALS AND LABOR FOR THIS WORK EXCEPT AS HEREINAFTER NOTED.
  - FINAL ELECTRICAL CONNECTIONS TO ALL EQUIPMENT SHALL BE BY THE ELECTRICAL CONTRACTOR, INCLUDING ALL REQUIRED MATERIALS SUCH AS, LINE AND DISCONNECT SWITCHES, SAFETY CUT-OUTS, CONTROL PANELS, FUSE BOXES, OR OTHER ELECTRICAL CONTROLS, FITTINGS, CONDUITS AND CONNECTIONS. ITEMS NOT FURNISHED AS A STANDARD PART OF THE EQUIPMENT BY THE MANUFACTURER, ARE TO BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. STARTING SWITCHES PROVIDED BY FOODSERVICE EQUIPMENT CONTRACTOR AND FURNISHED LOOSE AS STANDARD BY EQUIPMENT MANUFACTURERS (OTHER THAN CUSTOM FABRICATED ITEMS) ARE TO BE MOUNTED AND WIRED COMPLETE UNDER ELECTRICAL CONTRACT.
  - ELECTRICAL ENGINEER TO BE RESPONSIBLE FOR ALL CONCERNING AND ARRANGEMENTS REGARDING PENETRATIONS INTO THE FLOOR AND WALL. BUILDING OWNER TO APPROVE PRIOR TO CONSTRUCTION.
  - ELECTRICAL ENGINEER TO LOCATE RECEPTACLES IN STORAGE AREA AS REQUIRED BY LOCAL BUILDING CODE.
  - ELECTRICAL COMPONENTS MUST NOT INTERFERE WITH THE OPERATION OF THE ITEMS OF FOODSERVICE EQUIPMENT.
- ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL THE FOLLOWING:**
- ELECTRICAL ROUGH-IN
  - ALL ELECTRIC BUILDING SERVICES INCLUDING BUT NOT LIMITED TO: CONDUIT, WIRING, LINE AND DISCONNECT SWITCHES, SAFETY CUT OFFS AND FITTINGS, CONTROL PANELS, FUSE BOXES AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION, EXCEPT INTERNAL WIRING AS SPECIFIED, UNLESS INDICATED OTHERWISE ON DRAWINGS.
  - FINAL CONNECTIONS, INCLUDING MOUNTING AND WIRING OF STARTERS AND SWITCHES FURNISHED AS PART OF THE FOODSERVICE EQUIPMENT, UNLESS OTHERWISE NOTED ON THE DRAWINGS.
  - ALL JUNCTION BOXES, ELECTRICAL OUTLETS, COVER PLATES, SWITCHES, ETC. NOT BUILT INTO FIXTURES OR EQUIPMENT. ALL OUTLETS, JUNCTION BOXES, COVER PLATES, ETC. IN FOODSERVICE AREAS MUST BE MOISTURE PROOF.
  - ALL PLUSSES AND CORDS SHALL BE N.E.M.A. RATED AND U.L. APPROVED FOR MANUFACTURED AND FABRICATED EQUIPMENT.
  - SHUNT-TRIP CIRCUIT BREAKERS OR DISCONNECTS FOR FIRE SUPPRESSION SYSTEM SHUT-OFF OR FOOD SERVICE EQUIPMENT BENEATH VENTILATORS AS REQUIRED BY N.F.P.A. 96 AND LOCAL, STATE AND NATIONAL CODES.
  - G.F.I. RECEPTACLES AS REQUIRED BY LOCAL, STATE AND NATIONAL CODES.
  - DISCONNECTS OR OTHER DEVICES AS MAY BE REQUIRED BY LOCAL, STATE, AND NATIONAL CODES.
  - RECEPTACLES IN STORAGE AREA AS REQUIRED BY LOCAL, STATE, AND NATIONAL CODES.
  - ALL 120 VOLT CONVENIENCE OUTLETS NOT DESIGNATED WITH SPECIFIC LOADS SHALL BE RATED AT 60 AMP LOAD (20 AMP BREAKER). ELECTRICAL CONTRACTOR IS TO PROVIDE ANY ADDITIONAL OUTLETS AS CALLED FOR BY THE ARCHITECT, OWNER, OR ELECTRICAL ENGINEER.
- WHEN APPLICABLE, THE ELECTRICAL CONTRACTOR SHALL PROVIDE CIRCUIT AND WIRING, INSTALL ELECTRICAL COMPONENTS (PROVIDED BY FOODSERVICE EQUIPMENT CONTRACTOR) AND INTERWIRE BETWEEN THE FOLLOWING:**
- EXHAUST HOODS FURNISHED BY FOODSERVICE EQUIPMENT CONTRACTOR WITH LIGHT FIXTURES, EMPTY CONDUIT TO J-BOX AND PRE-WIRE PACKAGE. ELECTRICAL CONTRACTOR TO INTERCONNECT TO SWITCHES AND MAKE ALL FINAL CONNECTIONS.
  - FIRE CONTROL SYSTEM FURNISHED BY FOODSERVICE EQUIPMENT CONTRACTOR WITH MECHANICAL GAS SHUT-OFF FEATURE. FOODSERVICE EQUIPMENT CONTRACTOR TO INTERCONNECT TO GAS SOLENOID VALVE, SO AS TO SHUT OFF GAS SUPPLY TO EQUIPMENT WHEN ACTIVATED.
  - FIRE CONTROL SYSTEM FURNISHED BY FOODSERVICE EQUIPMENT CONTRACTOR WITH APPLIANCE SHUT-OFF FEATURE. ELECTRICAL CONTRACTOR TO INTERCONNECT TO SHUNT TRIPS PER MANUFACTURER'S DIAGRAM, SO AS TO SHUT OFF ALL EQUIPMENT UNDER HOODS WHEN ACTIVATED.
  - POWER TO ALL ELECTRICALLY OPERATED COOKING EQUIPMENT UNDER HOODS TO BE FROM PANEL WHERE MAIN BREAKER IS INTERWIRED WITH THE FIRE SUPPRESSION SYSTEM AND/OR FIRE TERMINAL BLOCK IN THE UTILITY DISTRIBUTION SYSTEM SO THAT THE POWER SHUT-OFF IS ACHIEVED UPON EITHER MANUAL OR AUTOMATIC OPERATION OF THE FIRE SUPPRESSION SYSTEM. ALL INTERWIRING BY ELECTRICAL CONTRACTOR.
  - HOOD CONTROLS AND FIRE PROTECTION SYSTEMS EACH REQUIRE EMERGENCY (24 HOUR) SEPARATE CIRCUIT ELECTRICAL SERVICE.
  - ELECTRICAL CONTRACTOR TO PROVIDE CIRCUITS ON ROOF FOR EXHAUST/SUPPLY FANS. VERIFY UTILITIES REQUIRED WITH MECHANICAL CONTRACTOR AND LOCATION OF UNITS WITH GENERAL CONTRACTOR. FINAL CONNECTIONS BY ELECTRICAL CONTRACTOR.
  - SS UTILITY CHASE SHALL BE FURNISHED BY FOODSERVICE EQUIPMENT CONTRACTOR WITH RECEPTACLES MOUNTED AND CORD & PLUG SETS LOOSE. ELECTRICAL CONTRACTOR TO EXTEND WIRING TO EACH RECEPTACLE ON UTILITY CHASE AND MAKE FINAL CONNECTIONS. ELECTRICAL CONTRACTOR TO CONNECT ALL CORD & PLUG SETS TO EQUIPMENT.
  - DISHMACHINE SHALL BE FURNISHED BY FOODSERVICE EQUIPMENT CONTRACTOR, PRE-WIRED TO INTEGRAL CONTROL PANEL AND READY FOR FINAL CONNECTION BY ELECTRICAL CONTRACTOR.
  - DISHMACHINE SHALL BE FURNISHED WITH EXHAUST FAN CONTROL SWITCH BY FOODSERVICE EQUIPMENT CONTRACTOR. ELECTRICAL CONTRACTOR TO INTERCONNECT TO EXHAUST FAN SO FAN OPERATES WHEN DISH MACHINE IS TURNED ON.
  - DISHMACHINE SHALL BE FURNISHED WITH LIMIT SWITCH BY FOODSERVICE EQUIPMENT CONTRACTOR. ELECTRICAL CONTRACTOR TO INTERCONNECT AND MAKE FINAL CONNECTIONS.
  - COLD STORAGE ROOMS SHALL BE FURNISHED BY FOODSERVICE EQUIPMENT CONTRACTOR WITH PRE-WIRED LIGHT AND SWITCH AT DOOR PANEL. ELECTRICAL CONTRACTOR TO PROVIDE INTERCONNECTING WIRING TO EXTRA LIGHT FIXTURES AND MAKE FINAL CONNECTIONS.
  - REFRIGERATION SYSTEMS SHALL BE FURNISHED AND INSTALLED BY FOODSERVICE EQUIPMENT CONTRACTOR, INCLUDING DEFROST WIRING BETWEEN CONDENSING UNIT AND EVAPORATOR COIL. FINAL POWER DROPS AND DISCONNECTS FOR CONDENSING UNITS AND EVAPORATOR COILS SHALL BE FURNISHED BY ELECTRICAL CONTRACTOR.
  - DISPOSERS SHALL BE FURNISHED BY FOODSERVICE EQUIPMENT CONTRACTOR WITH SOLENOID VALVE AND AUTO REVERSING CONTROL CENTER WITH MAGNETIC STARTER (S) AND START/STOP BUTTONS FOR FINAL CONNECTION BY ELECTRICAL CONTRACTOR.
  - UTILITY RACEWAY SHALL BE FURNISHED BY FOODSERVICE EQUIPMENT CONTRACTOR. PREWIRED AND READY FOR FINAL CONNECTION BY ELECTRICAL CONTRACTOR. FOOD SERVICE EQUIPMENT CONTRACTOR TO FURNISH CORD AND PLUG SETS FOR INSTALLATION TO EQUIPMENT BY ELECTRICAL CONTRACTOR.
  - AIR CURTAIN FAN TO BE FURNISHED BY FOODSERVICE EQUIPMENT CONTRACTOR WITH DOOR SWITCH. ELECTRICAL CONTRACTOR TO PROVIDE MASTER SWITCH AND MAKE FINAL CONNECTIONS.

ELECTRICAL LEGEND	
Ⓢ	DUPLEX OUTLET - WALL
Ⓢ	DUPLEX OUTLET - COUNTER
Ⓢ	DUPLEX OUTLET - FLOOR
Ⓢ	DUPLEX OUTLET - CEILING
Ⓢ	QUADPLEX OUTLET - WALL
Ⓢ	QUADPLEX OUTLET - COUNTER
Ⓢ	QUADPLEX OUTLET - FLOOR
Ⓢ	QUADPLEX OUTLET - CEILING
Ⓢ	JUNCTION BOX - WALL
Ⓢ	JUNCTION BOX - COUNTER
Ⓢ	JUNCTION BOX - FLOOR
Ⓢ	JUNCTION BOX - CEILING
Ⓢ	SPECIAL OUTLET - WALL
Ⓢ	SPECIAL OUTLET - COUNTER
Ⓢ	SPECIAL OUTLET - FLOOR
Ⓢ	SPECIAL OUTLET - CEILING
Ⓢ	CONVENIENCE OUTLET
Ⓢ	DEDICATED DUPLEX OUTLET - 20 AMP CIRCUIT
Ⓢ	SWITCH
Ⓢ	TELEPHONE CONNECTION
Ⓢ	DATA CONNECTION
Ⓢ	DISTRIBUTION POINT - FLOOR
Ⓢ	DISTRIBUTION POINT - WALL

**RIGHT FIELD CONCESSION:**  
HOT HOLDING FROM LEFT FIELD STAND  
STANDARD 'BELLY UP' STYLE SERVICE  
NO FOUNTAIN OR DRAFT BEVERAGES  
HOT HOLDING ONLY (NON COOKING)

- HOTDOGS
- BURGERS
- PIZZA
- PACKAGED SNACKS
- POPCORN
- BOTTLED DRINKS ONLY

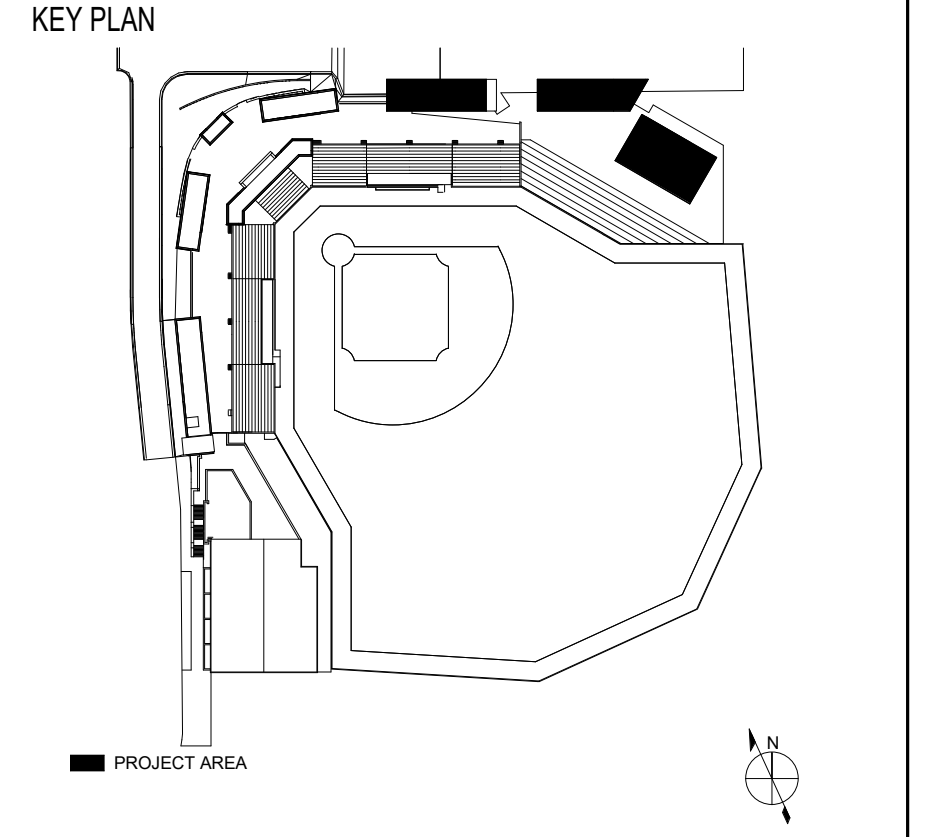
**RIGHT FIELD CONCESSION - ELECTRICAL PLAN**  
1/4" = 1'-0"



FOODSERVICE ELECTRICAL SCHEDULE											
ITEM NO	QTY	DESCRIPTION	AMPS	WATTS	VOLTS	PHASE	CONN TYPE	NEMA	CYCLE	ELEC AFF	ELECTRICAL REMARKS
101	2	MOBILE HEATED CABINET	13.70	1644	120	1	CORD & PLUG	5-15P	60	18"	
102	2	POPCORN POPPER, 16 OZ	10.00	1200	120	1	CORD & PLUG	5-15P	60	18"	
103	6	P.O.S.	10.00	1200	120	1	CORD & PLUG	5-15P	60	18"	
103.1	6	PRINTER, RECEIPT	5.00	600	120	1	CORD & PLUG	5-15P	60	18"	ESTIMATED UTILITIES - FIELD VERIFY
104	4	DRAWER WARMER	7.50	900	120	1	CORD & PLUG	5-15P	60	18"	
105	3	GLASS DOOR MERCHANDISER	5.40	621	120	1	CORD & PLUG	5-15P	60	30"	
106	2	NACHO CHEESE DISPENSER	7.00	820	120	1	CORD & PLUG	5-15P	60	30"	
107	2	HEATED SHELF	0.00	0	120	1	CORD & PLUG	5-15P	60	30"	
113	1	REACH-IN REFRIGERATOR	5.40	621	120	1	CORD & PLUG	5-15P	60	48"	
115	2	42" (16.9) LED SCREEN	10.00	1200	120	1	CORD & PLUG	5-15P	60	72"	ESTIMATED UTILITIES - FIELD VERIFY



SCO PROJECT NO. 22-24384-01A  
NC STATE PROJ. NO. 202120015



REVISIONS table with columns for NO., BY, DESCRIPTION, DATE

NC STATE UNIVERSITY  
DOAK FIELD ENHANCEMENT  
1081 Varsity Dr  
Raleigh, NC 27606

DRAWN BY TET DATE 01/22/2024

PROJECT NO. 20220400 SCALE As indicated

DRAWING NAME FS ELECTRICAL PLAN - LEFT FIELD CONCESSION

FLOOR/SECTION PHASE DRAWING NO.  
FD2 Q201

FOODSERVICE ELECTRICAL NOTES

- THIS ELECTRICAL PLAN AND COORDINATING SCHEDULE IS INTENDED TO SHOW ROUGH-IN LOCATIONS AND HEIGHTS, CONNECTION TYPES, POSITIONS, FIXTURE TYPES AND LOAD REQUIREMENTS FOR FOODSERVICE EQUIPMENT SPECIFIED AND FOODSERVICE EQUIPMENT THAT IS SCHEDULED FOR RE-USE. THIS ELECTRICAL PLAN IS INTENDED TO SHOW ELECTRICAL REQUIREMENTS AND APPROXIMATE ROUGH-IN LOCATIONS ONLY. DO NOT USE FOR ACTUAL ROUGH-IN. FOR FINAL ROUGH-IN LOCATIONS SEE DIMENSIONED PLANS PROVIDED BY FOODSERVICE EQUIPMENT CONTRACTOR. UTILITY REQUIREMENTS INDICATED ARE TO SERVE AS A REFERENCE TO THE LICENSED PROFESSIONAL ARCHITECT AND/OR ENGINEERS IN THE PREPARATION OF THEIR RESPECTIVE BID AND CONSTRUCTION DOCUMENTS. NO ARCHITECTURAL OR ENGINEERING DESIGN SERVICES ARE INTENDED OR ASSUMED. KITCHEN EQUIPMENT CONTRACTOR, PRIOR TO EQUIPMENT INSTALLATION, SHALL CHECK ALL UTILITY ROUGH-IN LOCATIONS, COORDINATE FIELD CONDITIONS, AND CALL TO THE ATTENTION OF THE GENERAL CONTRACTOR ANY AND ALL DISCREPANCIES BETWEEN THE FOODSERVICE ROUGH-IN PLANS, THE EQUIPMENT SPECIFIED, AND THE ROUGH-INS AS THEY OCCUR IN THE FIELD. ELECTRICAL LOADS ARE BASED ON MANUFACTURER'S INFORMATION. MINIMUM CIRCUIT AMPACITY AND OVERCURRENT PROTECTION TO BE DETERMINED BY CODE REQUIREMENTS AND/OR MANUFACTURER'S DIRECTIONS. SHOULD DISCREPANCIES OCCUR THEY SHALL BE BROUGHT TO THE ATTENTION OF THE FOODSERVICE CONSULTANT AND/OR PROJECT ARCHITECT/ENGINEER IN ORDER FOR THE CONTRACT TO BE CLARIFIED IN AN OFFICIAL REQUEST FOR INFORMATION. ALL EXPOSED UTILITY LINES AND PIPES SHALL BE INSTALLED IN A WAY THAT DOES NOT OBSTRUCT OR PREVENT THE CLEANING OF FLOORS, WALLS AND CEILING AREA - 1 TO 2 INCHES OFF WALLS AND MINIMUM 6" OFF FLOORS. ALL ELECTRICAL WORK, LABOR AND MATERIAL, REQUIRED TO CONNECT THIS EQUIPMENT IS TO BE FURNISHED BY ELECTRICAL CONTRACTOR UNLESS SPECIFICALLY CALLED FOR IN FOODSERVICE DOCUMENTS. ELECTRICAL CONTRACTOR IS TO INCLUDE ROUGH-IN TO POINTS INDICATED ON ROUGH-IN PLANS, FINAL CONNECTIONS FROM ROUGH-IN POINTS TO VARIOUS PIECES OF EQUIPMENT REQUIRING SUCH CONNECTIONS, AND THE SUPPLYING OF ALL NECESSARY MATERIALS AND LABOR FOR THIS WORK EXCEPT AS HEREINAFTER NOTED. FINAL ELECTRICAL CONNECTIONS TO ALL EQUIPMENT SHALL BE BY THE ELECTRICAL CONTRACTOR, INCLUDING ALL REQUIRED MATERIALS SUCH AS: LINE AND DISCONNECT SWITCHES, SAFETY CUT-OUTS, CONTROL PANELS, FUSE BOXES, OR OTHER ELECTRICAL CONTROLS, FITTINGS, CONDUITS AND CONNECTIONS. ITEMS NOT FURNISHED AS A STANDARD PART OF THE EQUIPMENT BY THE MANUFACTURER, ARE TO BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. STARTING SWITCHES PROVIDED BY FOODSERVICE EQUIPMENT CONTRACTOR AND FURNISHED LOOSE AS STANDARD BY EQUIPMENT MANUFACTURERS (OTHER THAN CUSTOM FABRICATED ITEMS) ARE TO BE MOUNTED AND WIRED COMPLETE UNDER ELECTRICAL CONTRACT. ELECTRICAL ENGINEER TO BE RESPONSIBLE FOR ALL CONCERNS AND ARRANGEMENTS REGARDING PENETRATIONS INTO THE FLOOR AND WALL BUILDING OWNERS TO APPROVE PRIOR TO CONSTRUCTION. ELECTRICAL ENGINEER TO LOCATE RECEPTACLES IN STORAGE AREA AS REQUIRED BY LOCAL BUILDING CODE. ELECTRICAL COMPONENTS MUST NOT INTERFERE WITH THE OPERATION OF THE ITEMS OF FOODSERVICE EQUIPMENT.

ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL THE FOLLOWING:

- ELECTRICAL ROUGH-IN
- ALL ELECTRIC BUILDING SERVICES INCLUDING BUT NOT LIMITED TO: CONDUIT, WIRING, LINE AND DISCONNECT SWITCHES, SAFETY CUT OFFS AND FITTINGS, CONTROL PANELS, FUSES, BOXES AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION, EXCEPT INTERNAL WIRING AS SPECIFIED UNLESS INDICATED OTHERWISE ON DRAWINGS.
- FINAL CONNECTIONS, INCLUDING MOUNTING AND WIRING OF STARTERS AND SWITCHES FURNISHED AS PART OF THE FOODSERVICE EQUIPMENT, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
- ALL JUNCTION BOXES, ELECTRICAL OUTLETS, COVER PLATES, SWITCHES, ETC. NOT BUILT INTO FIXTURES OR EQUIPMENT. ALL OUTLETS, JUNCTION BOXES, COVER PLATES, ETC. IN FOODSERVICE AREAS MUST BE MOISTURE PROOF.
- ALL PLUGS AND CORDS SHALL BE NEMA RATED AND U.L. APPROVED FOR MANUFACTURED AND FABRICATED EQUIPMENT. SHUNT TRIP CIRCUIT BREAKERS OR CIRCUIT BREAKERS FOR FIRE SUPPRESSION SHALL BE SHUT-OFF OR FOOD SERVICE EQUIPMENT BENEATH VENTILATORS AS REQUIRED BY N.F.P.A. 96 AND LOCAL, STATE AND NATIONAL CODES.
- C.F.I. RECEPTACLES AS REQUIRED BY LOCAL, STATE, AND NATIONAL CODES.
- DISCONNECTS OR OTHER DEVICES AS MAY BE REQUIRED BY LOCAL, STATE, AND NATIONAL CODES.
- RECEPTACLES IN STORAGE AREA AS REQUIRED BY LOCAL, STATE, AND NATIONAL CODES.
- ALL 120 VOLT CONVENIENCE OUTLETS NOT DESIGNATED WITH SPECIFIC LOADS SHALL BE RATED AT 16.0 AMP LOAD (20 AMP BREAKER). ELECTRICAL CONTRACTOR IS TO PROVIDE ANY ADDITIONAL OUTLETS AS CALLED FOR BY THE ARCHITECT, OWNER, OR ELECTRICAL ENGINEER.

WHEN APPLICABLE, THE ELECTRICAL CONTRACTOR SHALL PROVIDE CIRCUIT AND WIRING, INSTALL ELECTRICAL COMPONENTS (PROVIDED BY FOODSERVICE EQUIPMENT CONTRACTOR) AND INTERWIRE BETWEEN THE FOLLOWING:

- EXHAUST HOODS FURNISHED BY FOODSERVICE EQUIPMENT CONTRACTOR WITH LIGHT FIXTURES, EMPTY CONDUIT TO J-BOX AND PRE-WIRE PACKAGE. ELECTRICAL CONTRACTOR TO INTERCONNECT TO SWITCHES AND MAKE ALL FINAL CONNECTIONS.
- FIRE CONTROL SYSTEM FURNISHED BY FOODSERVICE EQUIPMENT CONTRACTOR WITH MECHANICAL GAS SHUT-OFF FEATURE. FOODSERVICE EQUIPMENT CONTRACTOR TO INTERCONNECT TO GAS SOLENOID VALVE, SO AS TO SHUT OFF GAS SUPPLY TO EQUIPMENT WHEN ACTUATED.
- FIRE CONTROL SYSTEM FURNISHED BY FOODSERVICE EQUIPMENT CONTRACTOR WITH APPLIANCE SHUT-OFF FEATURE. ELECTRICAL CONTRACTOR TO INTERCONNECT TO SHUNT TRIPS PER MANUFACTURERS (NEMA) SO AS TO SHUT OFF ALL EQUIPMENT UNDER HOODS WHEN ACTUATED.
- POWER TO ALL ELECTRICALLY OPERATED COOKING EQUIPMENT UNDER HOODS TO BE FROM PANEL WHERE MAIN BREAKER IS INTERFERED WITH THE FIRE SUPPRESSION SYSTEM AND/OR FIRE TERMINAL BLOCK IN THE UTILITY DISTRIBUTION SYSTEM SO THAT THE POWER SHUT-OFF IS ACHIEVED UPON EITHER MANUAL OR AUTOMATIC OPERATION OF THE FIRE SUPPRESSION SYSTEM. ALL INTERWIRING BY ELECTRICAL CONTRACTOR.
- HOOD CONTROLS AND FIRE PROTECTION SYSTEMS EACH REQUIRE EMERGENCY (24 HOUR) SEPARATE CIRCUIT ELECTRICAL SERVICE.
- ELECTRICAL CONTRACTOR TO PROVIDE CIRCUITS ON ROOF FOR EXHAUST/SUPPLY FANS. VERIFY UTILITIES REQUIRED WITH MECHANICAL CONTRACTOR AND LOCATION OF UNITS WITH GENERAL CONTRACTOR. FINAL CONNECTIONS BY ELECTRICAL CONTRACTOR.
- AS UTILITY CHASE SHALL BE FURNISHED BY FOODSERVICE EQUIPMENT CONTRACTOR WITH RECEPTACLES MOUNTED AND CORD & PLUG SETS LOOSE. ELECTRICAL CONTRACTOR TO EXTEND WIRING TO EACH RECEPTACLE ON UTILITY CHASE AND MAKE FINAL CONNECTIONS. ELECTRICAL CONTRACTOR TO CONNECT ALL CORD & PLUG SETS TO EQUIPMENT.
- DISHMACHINE SHALL BE FURNISHED BY FOODSERVICE EQUIPMENT CONTRACTOR, PREWIRED TO INTEGRAL CONTROL PANEL AND READY FOR FINAL CONNECTION BY ELECTRICAL CONTRACTOR.
- DISHMACHINE SHALL BE FURNISHED WITH EXHAUST FAN CONTROL SWITCH BY FOODSERVICE EQUIPMENT CONTRACTOR. ELECTRICAL CONTRACTOR TO INTERCONNECT TO EXHAUST FAN SO FAN OPERATES WHEN DISHMACHINE IS TURNED ON.
- DISHMACHINE SHALL BE FURNISHED WITH LIMIT SWITCH BY FOODSERVICE EQUIPMENT CONTRACTOR. ELECTRICAL CONTRACTOR TO INTERCONNECT AND MAKE FINAL CONNECTIONS.
- COLD STORAGE ROOMS SHALL BE FURNISHED BY FOODSERVICE EQUIPMENT CONTRACTOR WITH PRE-WIRED LIGHT AND SWITCH AT DOOR PANEL. ELECTRICAL CONTRACTOR TO PROVIDE INTERCONNECTING WIRING TO EXTRA LIGHT FIXTURES AND MAKE FINAL CONNECTIONS.
- REFRIGERATION SYSTEMS SHALL BE FURNISHED AND INSTALLED BY FOODSERVICE EQUIPMENT CONTRACTOR, INCLUDING DEFROST WIRING BETWEEN CONDENSING UNIT AND EVAPORATOR COIL, FINAL POWER DROPS AND DISCONNECTS FOR CONDENSING UNITS AND EVAPORATOR COILS SHALL BE FURNISHED BY ELECTRICAL CONTRACTOR.
- DISPOSERS SHALL BE FURNISHED BY FOODSERVICE EQUIPMENT CONTRACTOR WITH SOLENOID VALVE AND AUTO REVERSING CONTROL CENTER WITH MAGNETIC STARTER (S) AND START/STOP BUTTONS FOR FINAL CONNECTION BY ELECTRICAL CONTRACTOR.
- UTILITY RACEWAY SHALL BE FURNISHED BY FOODSERVICE EQUIPMENT CONTRACTOR. PREWIRED AND READY FOR FINAL CONNECTION BY ELECTRICAL CONTRACTOR. FOOD SERVICE EQUIPMENT CONTRACTOR TO FURNISH CORD AND PLUG SETS FOR INSTALLATION TO EQUIPMENT BY ELECTRICAL CONTRACTOR.
- AIR CURTAIN FAN TO BE FURNISHED BY FOODSERVICE EQUIPMENT CONTRACTOR WITH DOOR SWITCH. ELECTRICAL CONTRACTOR TO PROVIDE MASTER SWITCH AND MAKE FINAL CONNECTIONS.

ELECTRICAL LEGEND table with symbols and descriptions for various electrical components like duplex outlets, junction boxes, switches, etc.

FINAL LOCATION OF HEARTH OVEN EXHAUST FAN TO BE DECIDED BY M.E.P.

REMOTE REFRIGERATION CONDENSING UNITS SHOWN FOR INFORMATIONAL PURPOSES ONLY. ACTUAL LOCATION TO BE DETERMINED BY FIELD CONDITIONS AND BUILDING STRUCTURE IN KEEPING WITH ALL REQUIREMENTS OF SPECIFICATIONS.



LEFT FIELD CONCESSION:  
HOT HOLDING DELIVERED TO LEFT FIELD STAND  
WALK-IN MARKET  
NO FOUNTAIN OR DRAFT BEVERAGES  
FULL COOKING  
• HOTDOGS  
• BURGERS  
• PIZZA  
• PACKAGED SNACKS  
• BOTTLED DRINKS ONLY  
• HOT BEVERAGES (as needed)

POS UNITS ARE TABLE BASED  
SHARED IN CABINET #208  
WIFI ENABLED

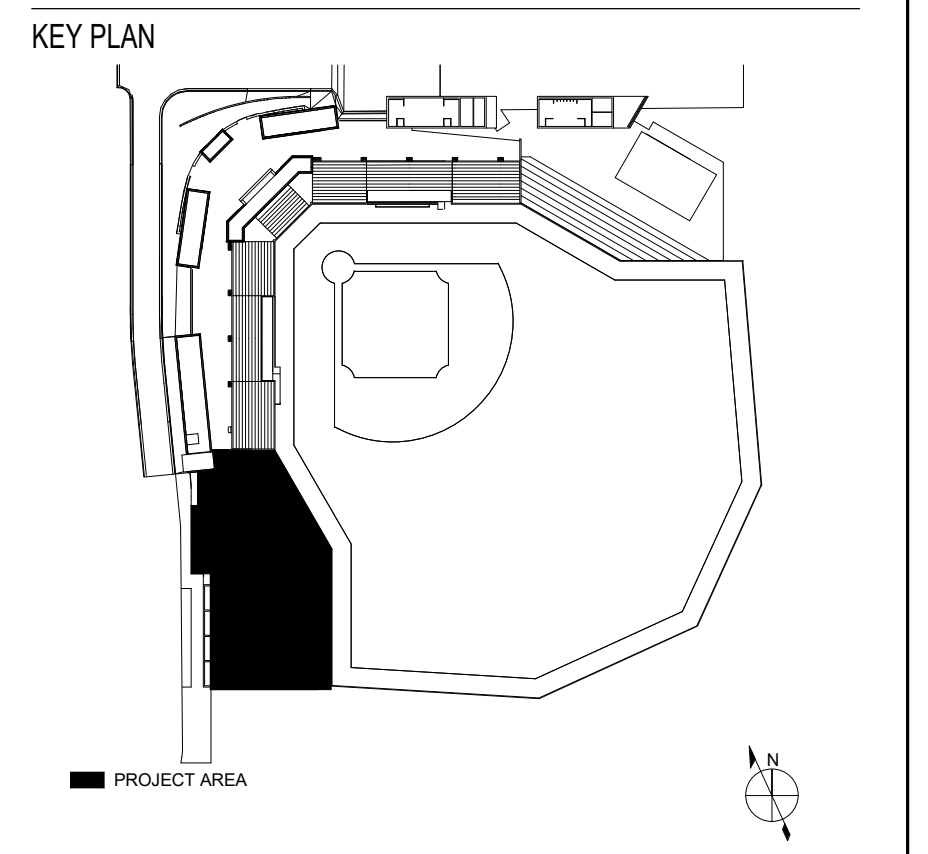
1 LEFT FIELD CONCESSION - ELECTRICAL PLAN  
1/4" = 1'-0"

FOODSERVICE ELECTRICAL SCHEDULE

Table with columns: ITEM NO, QTY, DESCRIPTION, AMPS, WATTS, VOLTS, PHASE, CYCLE, CONN TYPE, NEMA, ELEC AFF, ELECTRICAL REMARKS. Lists items like Light Cooler, Walk-in Cooler, Freezer, Fryer, etc.



SCO PROJECT NO. 22-24384-01A  
NC STATE PROJ. NO. 202120015

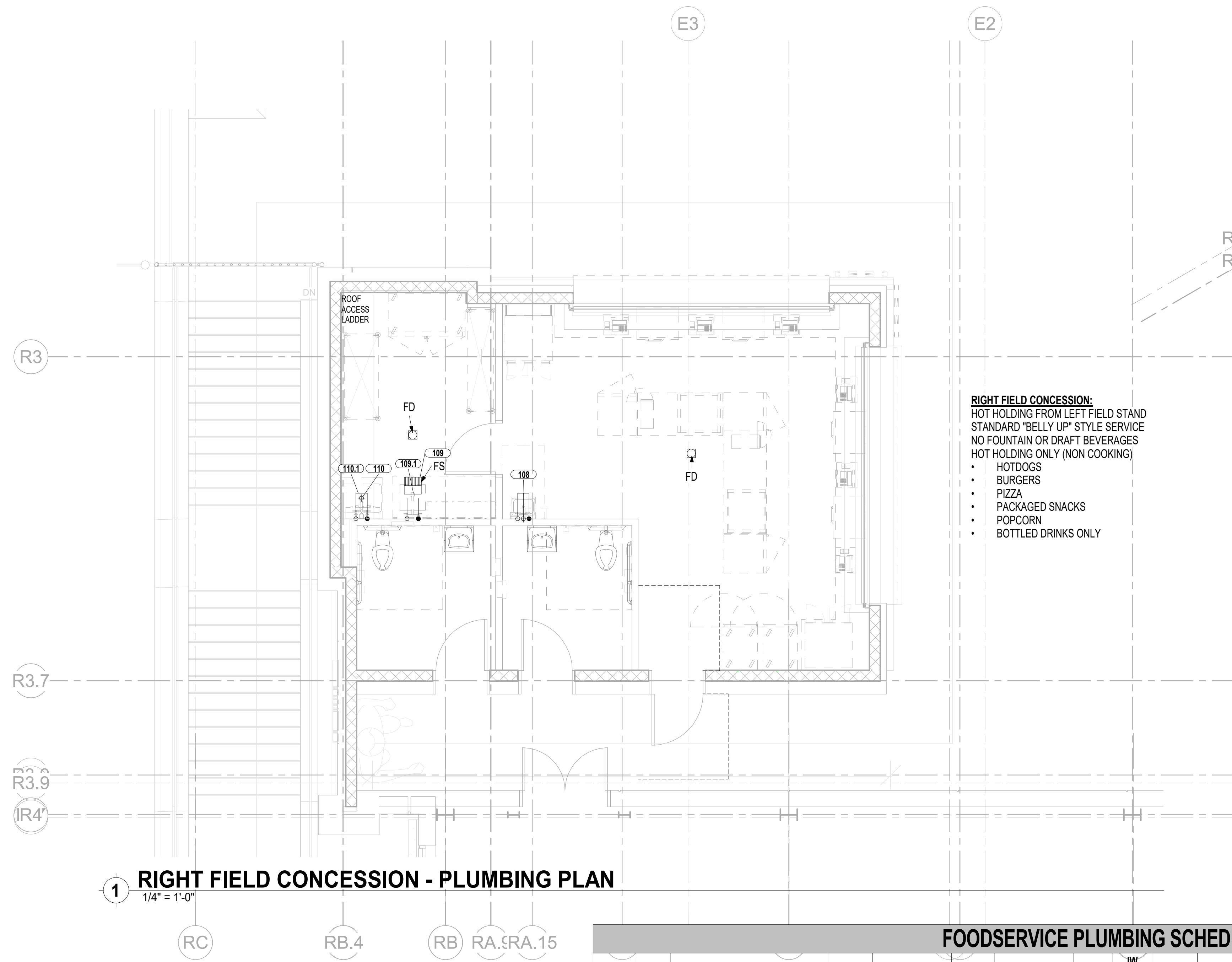


- FOODSERVICE PLUMBING/MECHANICAL NOTES:**
- THIS PLUMBING PLAN AND COORDINATING SCHEDULE IS INTENDED TO SHOW ROUGH-IN LOCATIONS AND HEIGHTS, CONNECTION TYPES, POSITIONS, FIXTURE TYPES AND LOAD REQUIREMENTS FOR FOODSERVICE EQUIPMENT SPECIFIED AND FOODSERVICE EQUIPMENT THAT IS SCHEDULED FOR RE-USE. THIS PLUMBING PLAN IS INTENDED TO SHOW PLUMBING REQUIREMENTS AND APPROXIMATE ROUGH-IN LOCATIONS ONLY. DO NOT USE FOR ACTUAL ROUGH-IN. FOR FINAL ROUGH-IN LOCATIONS SEE DIMENSIONED PLANS PROVIDED BY FOODSERVICE EQUIPMENT CONTRACTOR. UTILITY REQUIREMENTS INDICATED ARE TO SERVE AS A REFERENCE TO THE LICENSED PROFESSIONAL ARCHITECT AND/OR ENGINEERS IN THE PREPARATION OF THEIR RESPECTIVE BID AND CONSTRUCTION DOCUMENTS. NO ARCHITECTURAL OR ENGINEERING DESIGN SERVICES ARE INTENDED OR ASSUMED.
  - FOODSERVICE EQUIPMENT CONTRACTOR, PRIOR TO EQUIPMENT INSTALLATION, SHALL CHECK ALL UTILITY ROUGH-IN LOCATIONS, COORDINATE FIELD CONDITIONS, AND CALL TO THE ATTENTION OF THE GENERAL CONTRACTOR ANY AND ALL DISCREPANCIES BETWEEN THE FOODSERVICE ROUGH-IN PLANS, THE EQUIPMENT SPECIFIED, AND THE ROUGH-INS AS THEY OCCUR IN THE FIELD.
  - UTILITIES ARE BASED ON MANUFACTURER'S INFORMATION. ACTUAL ROUGH-INS TO BE DETERMINED BY CODE REQUIREMENTS OR MANUFACTURER'S DIRECTIONS.
  - ALL EXPOSED UTILITY LINES AND PIPES SHALL BE INSTALLED IN A WAY THAT DOES NOT OBSTRUCT OR PREVENT THE CLEANING OF FLOORS, WALLS AND CEILING AREA. 1 TO 2 INCHES OFF WALLS AND MINIMUM 6" OFF FLOORS.
  - ALL PLUMBING WORK, LABOR AND MATERIAL, REQUIRED TO CONNECT THIS EQUIPMENT IS TO BE FURNISHED BY PLUMBING CONTRACTOR UNLESS SPECIFICALLY CALLED FOR IN FOODSERVICE DOCUMENTS. PLUMBING CONTRACTOR IS TO INCLUDE ROUGH-INS TO POINTS INDICATED ON ROUGH-IN PLANS. FINAL CONNECTIONS FROM ROUGH-IN POINTS TO VARIOUS PIECES OF EQUIPMENT REQUIRING SUCH CONNECTIONS, AND THE SUPPLYING OF ALL NECESSARY MATERIALS AND LABOR FOR THIS WORK EXCEPT AS HEREAFTER NOTED.
  - FINAL PLUMBING CONNECTIONS TO ALL EQUIPMENT SHALL BE BY THE PLUMBING CONTRACTOR, INCLUDING ALL REQUIRED MATERIALS SUCH AS PIPING OF SUPPLY AND WASTE LINES FROM BUILDING SERVICE TO ROUGH-IN (UNLESS SPECIFICALLY STATED OTHERWISE), TRAPS, GREASE INTERCEPTORS, LINE STRAINERS, TAPPECES, VALVES, STOPS, SHUTOFFS, AND MISCELLANEOUS FITTINGS REQUIRED FOR COMPLETE INSTALLATION AND FINAL CONNECTION.
  - ITEMS NOT FURNISHED AS A STANDARD PART OF THE EQUIPMENT BY THE MANUFACTURER, ARE TO BE FURNISHED AND INSTALLED BY PLUMBING CONTRACTOR. FAUCETS PROVIDED BY FOODSERVICE EQUIPMENT CONTRACTOR AND FURNISHED LOOSE AS STANDARD BY EQUIPMENT MANUFACTURERS ARE TO BE MOUNTED AND PLUMBED COMPLETE UNDER PLUMBING CONTRACT.
  - PLUMBING ENGINEER TO BE RESPONSIBLE FOR ALL CONCERNS AND ARRANGEMENTS REGARDING PENETRATIONS INTO THE FLOOR AND WALL. BUILDING OWNER TO APPROVE PRIOR TO CONSTRUCTION.
  - PLUMBING ENGINEER TO LOCATE AREA DRAINS AND HOSE BIBBS AS REQUIRED FOR GENERAL CLEANING OF FACILITY.
  - PLUMBING COMPONENTS MUST NOT INTERFERE WITH THE OPERATION OF THE ITEMS OF FOOD SERVICE EQUIPMENT.
  - FINAL CONNECTIONS TO ALL EQUIPMENT SHALL BE BY THE PLUMBING CONTRACTOR, INCLUDING ALL REQUIRED MATERIALS SUCH AS STOPS, VALVES, FILTERS, TRAPS, CHECK VALVES, PIPING, TUBING, ETC.
  - GAS COOKING EQUIPMENT SHALL BE ADA APPROVED AND FURNISHED BY FOODSERVICE EQUIPMENT CONTRACTOR WITH GAS PRESSURE REGULATORS DESIGNED TO OPERATE WITH 14" W.C. INCOMING GAS PRESSURE OR LESS. PLUMBING CONTRACTOR TO PROVIDE GAS PIPING WITH INDIVIDUAL SHUT-OFF VALVES AND INTERMEDIATE REGULATORS AS REQUIRED TO REDUCE INCOMING BUILDING PRESSURE TO LEVEL SUITABLE FOR EQUIPMENT. PLUMBING CONTRACTOR TO MAKE FINAL CONNECTIONS.
  - FIRE CONTROL SYSTEM: FOODSERVICE EQUIPMENT CONTRACTOR TO FURNISH MECHANICAL GAS SOLENOID VALVES LOOSE FOR PLUMBER TO INSTALL IN GAS SUPPLY LINE, LOCATED SO AS TO SHUT OFF ALL GAS TO COOKING EQUIPMENT WHEN ACTUATED.
  - SHOULD DISCREPANCIES OCCUR THEY SHALL BE BROUGHT TO THE ATTENTION OF THE FOODSERVICE CONSULTANT AND/OR ARCHITECT/ENGINEER IN ORDER FOR THE CONFLICT TO BE CLARIFIED IN AN OFFICIAL REQUEST FOR INFORMATION.

- THE PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL THE FOLLOWING:**
- ALL WATER, WASTE, GAS, AND STEAM SERVICE TO POINT OF ROUGH-IN AS SHOWN ON PLAN. ROUGH-IN OUTLETS TO STUB 4" OUT OF WALLS AT HEIGHTS INDICATED FROM FINISHED FLOOR TO CENTERLINE OF SERVICE LINE. FLOOR ROUGH-INS TO STUB UP 3" ABOVE FINISHED FLOOR OR CURBS. ALL FLOOR OPENINGS OR PENETRATIONS TO BE SEALED WATERTIGHT.
  - ALL FLOOR SINKS, COMPLETE WITH TOP GRATES AS INDICATED, AND REMOVABLE SEDIMENT BUCKETS. ALL FIXTURES TO BE SET FLUSH WITH FINISHED FLOOR, EXCEPT AS OTHERWISE NOTED.
  - ALL WASTE LINES, DIRECT OR INDIRECT, EXCEPT AS OTHERWISE NOTED, MINIMUM DIAMETER OF LINE SHALL BE AS INDICATED ON PLAN REGARDLESS OF CONNECTION, AND SHALL BE PITCHED DOWNWARD, MAINTAIN DRAIN LINES AS HIGH AS POSSIBLE, MINIMUM 4" CLEAR ABOVE FINISHED FLOOR ABOVE FLOOR FOR SANITATION AND CLEANING. ALL WASTE LINES SHALL HAVE ADEQUATE CLEAN-OUT PROVISIONS PER LOCAL CODES.
  - INDIRECT CONDENSATE DRAIN LINES FOR WALK-IN COOLER/FREEZER TO BE PITCHED 4" PER 12" OF HORIZONTAL RUN AND TERMINATE IN A TRAP OVER FLOOR SINK.
  - HEATER TAPE, WITH AN EFFECTIVE RATING OF 35 WATTS PER LINEAR FOOT, AND INSULATION OF ALL DRAIN LINES WITHIN FREEZER COMPARTMENTS.
  - ALL REQUIRED GREASE INTERCEPTORS, OUTSIDE THE BUILDING WHERE POSSIBLE. OTHERWISE BELOW OR SET FLUSH WITH THE FINISHED FLOOR. STRICT COORDINATION WITH EQUIPMENT AND LOCAL CODES REQUIRED IF GREASE INTERCEPTOR IS TO BE SET ABOVE THE FLOOR OR UNDER EQUIPMENT.
  - INSTALL FIRE CONTROL GAS SHUT-OFF (SOLENOID, EITHER MANUAL OR ELECTRIC) VALVE AS SUPPLIED BY FIRE SUPPRESSION SYSTEM CONTRACTOR. (IF GAS COOKING EQUIPMENT IS USED).
  - VACUUM BREAKERS AS REQUIRED BY LOCAL/STATE/NATIONAL CODES.
  - INSULATION ON ALL HOT WATER AND CONDENSATE RETURN LINES WITHIN THE FOODSERVICE AREAS. ALL SUCH LINES ARE TO BE COLOR-CODED ACCORDING TO LOCAL CODES.
  - CLEAN-OUT VALVES FOR STEAM AND CONDENSATE RETURN LINES.
  - PLUMBING CONTRACTOR TO INTERCONNECT DISHWASHER WITH BOOSTER HEATER/HEAT RECLAIMER AS PER MANUFACTURER'S INSTRUCTIONS, WHEN APPLICABLE AND NOTED.
  - PRESSURE REDUCING AND/OR REGULATING VALVES FOR DISHWASHERS, BOOSTER HEATERS, OR AS OTHERWISE NOTED IN ALL FOOD SERVICE AREAS.
  - PLUMBING CONTRACTOR TO INTERCONNECT WATER WASH VENTILATORS WITH CONTROL PANELS AS PER MANUFACTURER'S INSTRUCTIONS, WHEN APPLICABLE AND NOTED.
  - WHERE POSSIBLE, UTILITIES SHALL BE CONCEALED WITHIN BUILDING WALLS OR COLUMN CHASES, NOT RUN ALONG WALL FACE. DO NOT STUB OUT OF FLOOR AND RUN ON THE FACE OF THE WALL.
  - ANY AND ALL EXPOSED PIPING OR FITTINGS TO BE STAINLESS STEEL, CHROME PLATED OR ENCLOSED IN A CONCEALED, MOUNTED STAINLESS STEEL CHASE.
  - ALL HORIZONTAL PIPING RUNS EXTENDED TO AND CONNECTED TO EQUIPMENT ITEMS SHALL BE AT THE HIGHEST PRACTICAL ELEVATION AND NOT LESS THAN 6" ABOVE FINISHED FLOOR SO AS TO PROVIDE CLEARANCE FOR CLEANING.
  - ALL VENT PIPES TO BE CONCEALED IN WALLS OR COLUMN CHASES. USE LOOP VENTS FOR ISLAND FIXTURES, AS ALLOWED BY LOCAL CODES.
  - ALL LINES ROUTED THROUGH EQUIPMENT SHALL NOT INTERFERE WITH THE INTENDED USE OF, OR SERVICING OF THE EQUIPMENT.
  - DRINKING FOUNTAINS ARE BY MECHANICAL TRADES. VERIFY UTILITY REQUIREMENTS WITH MECHANICAL ENGINEER.
  - INDOOR GREASE TRAPS ARE TO BE RECESSED, FLUSH WITH TOP OF FINISHED FLOOR (UNLESS SPECIFIED OTHERWISE) AND REMOVAL OF COVER SHALL NOT INTERFERE WITH THE OPERATION OF EQUIPMENT ITEMS.
  - FLOOR DRAINS, FUNNEL FLOOR DRAINS, FLOOR SINKS, ETC., LOCATED AT FOOD PREP SINKS, POT WASHING SINKS AND DISHWASHERS MUST HAVE REMOVABLE BASKETS TO CATCH FOOD PARTICLES. FLOOR TROUGH DRAINS MUST ALSO BE PROVIDED WITH REMOVABLE BASKETS AND TO BE INSTALLED FLUSH WITH FINISHED FLOOR (NO RAISED FLOOR SINKS SHALL BE INSTALLED). ALL DRAINS IN FOOD SERVICE AREAS TO BE RUN THROUGH GREASE TRAP UNLESS OTHERWISE APPROVED BY LOCAL CODE.

**PLUMBING LEGEND**

- HOT WATER CONNECTION
- COLD WATER CONNECTION
- ⊕ DIRECT WASTE
- FLOOR DRAIN
- ⊞ FLOOR DRAIN - AREA
- ⊞ FLOOR SINK - OPEN GRATE
- ⊞ FLOOR SINK - HALF GRATE
- ⊞ FLOOR SINK - FULL GRATE
- ⊞ GAS CONNECTION
- REFRIGERANT PIPING
- ⊞ STEAM IN
- ⊞ STEAM OUT
- ⊞ CONVENIENCE CONNECTION



**RIGHT FIELD CONCESSION:**  
HOT HOLDING FROM LEFT FIELD STAND  
STANDARD 'BELLY UP' STYLE SERVICE  
NO FOUNTAIN OR DRAFT BEVERAGES  
HOT HOLDING ONLY (NON COOKING)

- HOTDOGS
- BURGERS
- PIZZA
- PACKAGED SNACKS
- POPCORN
- BOTTLED DRINKS ONLY

**RIGHT FIELD CONCESSION - PLUMBING PLAN**  
1/4" = 1'-0"

**FOODSERVICE PLUMBING SCHEDULE**

ITEM NO	QTY	DESCRIPTION	HW SIZE	HW AFF	CW SIZE	CW AFF	IW SIZE	IW TYPE	DW SIZE	DW AFF	GAS SIZE	BTUH	GAS AFF	PLUMBING REMARKS
108	1	HAND SINK	1/2"	14"	1/2"	14"			1 1/2"	12"				
109	1	S/S WORKTABLE WITH SINK					1"	FS						
109.1	1	FAUCET, PRE-RINSE	1/2"	14"	1/2"	14"								
110	1	MOP SINK							2"	30"				
110.1	1	SERVICE FAUCET	1/2"	14"	1/2"	14"								

**REVISIONS**

NO.	DESCRIPTION	DATE

VBD PACKAGE A - LEFT & RIGHT FIELD ADDITIONS 1/29/2024

**NC STATE UNIVERSITY**

**DOAK FIELD ENHANCEMENT**  
1081 Varsity Dr  
Raleigh, NC 27606

DRAWN BY TET DATE 01/22/2024

PROJECT NO. 20220400 SCALE As indicated

DRAWING NAME

FS PLUMBING PLAN - RIGHT FIELD CONCESSION

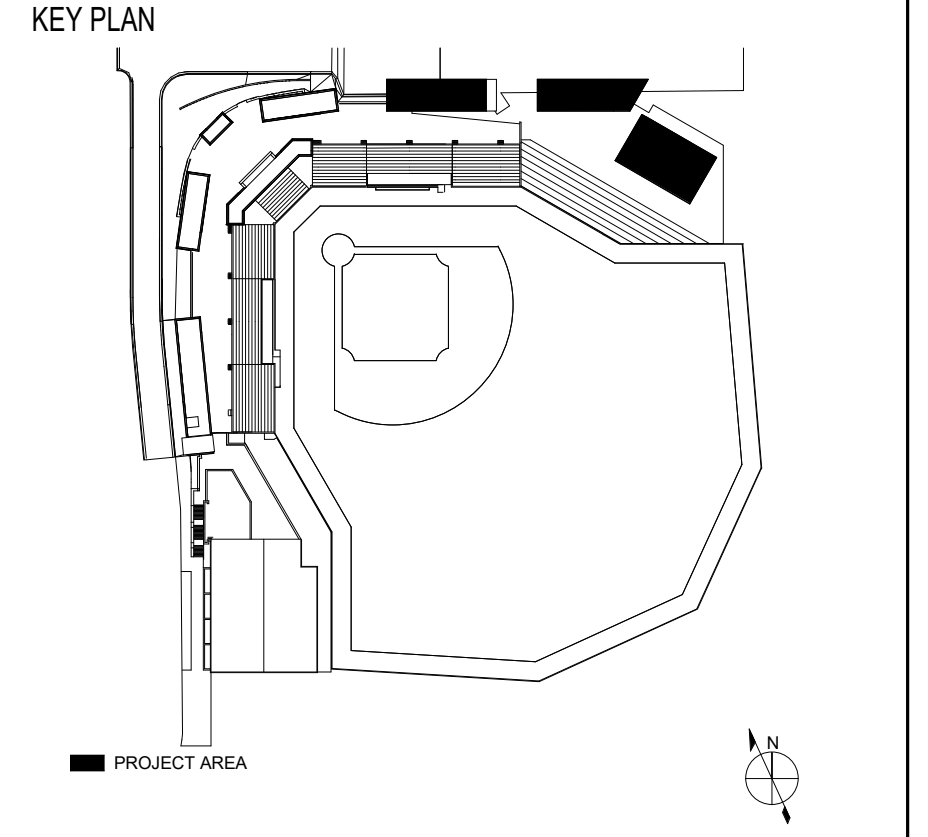
FLOOR/SECTION PHASE **FD2** DRAWING NO. **Q300**



CONTRACT NO. 22-24384-01A  
CONSULTANTS



SCO PROJECT NO. 22-24384-01A  
NC STATE PROJ. NO. 202120015



REVISIONS

NO.	DESCRIPTION	DATE

NC STATE UNIVERSITY  
DOAK FIELD ENHANCEMENT  
1081 Varsity Dr  
Raleigh, NC 27606

DRAWN BY TET DATE 01/22/2024

PROJECT NO. 20220400 SCALE As indicated

DRAWING NAME FS PLUMBING PLAN - LEFT FIELD CONCESSION

FLOOR/SECTION PHASE DRAWING NO.  
FD2 Q301

- FOODSERVICE ELECTRICAL NOTES**
- THIS ELECTRICAL PLAN AND COORDINATING SCHEDULE IS INTENDED TO SHOW ROUGH-IN LOCATIONS AND HEIGHTS, CONNECTION TYPES, POSITIONS, FIXTURE TYPES AND LOAD REQUIREMENTS FOR FOODSERVICE EQUIPMENT SPECIFIED AND FOODSERVICE EQUIPMENT THAT IS SCHEDULED FOR RE-USE. THIS ELECTRICAL PLAN IS INTENDED TO SHOW ELECTRICAL REQUIREMENTS AND APPROXIMATE ROUGH-IN LOCATIONS ONLY. DO NOT USE FOR ACTUAL ROUGH-IN. FOR FINAL ROUGH-IN LOCATIONS SEE DIMENSIONED PLANS PROVIDED BY FOODSERVICE EQUIPMENT CONTRACTOR. UTILITY REQUIREMENTS INDICATED ARE TO SERVE AS A REFERENCE TO THE LICENSED PROFESSIONAL ARCHITECT AND/OR ENGINEERS IN THE PREPARATION OF THEIR RESPECTIVE BID AND CONSTRUCTION DOCUMENTS. NO ARCHITECTURAL OR ENGINEERING DESIGN SERVICES ARE INTENDED OR ASSUMED.
  - KITCHEN EQUIPMENT CONTRACTOR, PRIOR TO EQUIPMENT INSTALLATION, SHALL CHECK ALL UTILITY ROUGH-IN LOCATIONS, COORDINATE FIELD CONDITIONS, AND CALL TO THE ATTENTION OF THE GENERAL CONTRACTOR ANY AND ALL DISCREPANCIES BETWEEN THE FOODSERVICE EQUIPMENT CONTRACTOR'S PLANS, THE EQUIPMENT SPECIFIED AND THE ROUGH-INS AS THEY OCCUR IN THE FIELD.
  - ELECTRICAL LOADS ARE BASED ON MANUFACTURER'S INFORMATION, MINIMUM CIRCUIT AMPACITY AND OVERCURRENT PROTECTION TO BE DETERMINED BY CODE REQUIREMENTS AND/OR MANUFACTURER'S DIRECTIONS.
  - SHOULD DISCREPANCIES OCCUR THEY SHALL BE BROUGHT TO THE ATTENTION OF THE FOODSERVICE CONSULTANT AND/OR PROJECT ARCHITECT/ENGINEER IN ORDER FOR THE CONFLICT TO BE CLARIFIED IN AN OFFICIAL REQUEST FOR INFORMATION.
  - ALL EXPOSED UTILITY LINES AND PIPES SHALL BE INSTALLED IN A MANNER THAT DOES NOT OBSTRUCT OR PREVENT THE CLEANING OF FLOORS, WALLS AND CEILING AREAS 1 TO 2 INCHES OFF WALLS AND MINIMUM 6" OFF FLOORS.
  - ALL ELECTRICAL WORK, LABOR AND MATERIAL, REQUIRED TO CONNECT THIS EQUIPMENT IS TO BE FURNISHED BY ELECTRICAL CONTRACTOR UNLESS SPECIFICALLY CALLED FOR IN FOODSERVICE DOCUMENTS. ELECTRICAL CONTRACTOR IS TO INCLUDE ROUGH-IN TO POINTS INDICATED ON ROUGH-IN PLANS, FINAL CONNECTIONS FROM ROUGH-IN POINTS TO VARIOUS PIECES OF EQUIPMENT REQUIRING SUCH CONNECTIONS, AND THE SUPPLYING OF ALL NECESSARY MATERIALS AND LABOR FOR THIS WORK EXCEPT AS HEREINAFTER NOTED.
  - FINAL ELECTRICAL CONNECTIONS TO ALL EQUIPMENT SHALL BE BY THE ELECTRICAL CONTRACTOR, INCLUDING ALL REQUIRED MATERIALS SUCH AS, LINE AND DISCONNECT SWITCHES, SAFETY CUT-OUTS, CONTROL PANELS, FUSE BOXES, OR OTHER ELECTRICAL CONTROLS, FITTINGS, CONDUITS AND CONNECTIONS. ITEMS NOT FURNISHED AS A STANDARD PART OF THE EQUIPMENT BY THE MANUFACTURER, ARE TO BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. STARTING SWITCHES PROVIDED BY FOODSERVICE EQUIPMENT CONTRACTOR AND FURNISHED LOOSE AS STANDARD BY EQUIPMENT MANUFACTURERS (OTHER THAN CUSTOM FABRICATED ITEMS) ARE TO BE MOUNTED AND WIRED COMPLETE UNDER ELECTRICAL CONTRACTOR.
  - ELECTRICAL ENGINEER TO BE RESPONSIBLE FOR ALL CONCERNS AND ARRANGEMENTS REGARDING PENETRATIONS INTO THE FLOOR AND WALL, BUILDING OWNER TO APPROVE PRIOR TO CONSTRUCTION.
  - ELECTRICAL ENGINEER TO LOCATE RECEPTACLES IN STORAGE AREA AS REQUIRED BY LOCAL BUILDING CODE.
  - ELECTRICAL COMPONENTS MUST NOT INTERFERE WITH THE OPERATION OF THE ITEMS OF FOODSERVICE EQUIPMENT.
- ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL THE FOLLOWING:**
- ELECTRICAL ROUGH-IN.
  - ALL ELECTRIC BUILDING SERVICES INCLUDING BUT NOT LIMITED TO: CONDUIT, WIRING, LINE AND DISCONNECT SWITCHES, SAFETY CUT OFFS AND FITTINGS, CONTROL PANELS, FUSES, BOXES AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION EXCEPT INTERNAL WIRING AS SPECIFIED, UNLESS INDICATED OTHERWISE ON DRAWINGS.
  - FINAL CONNECTIONS, INCLUDING MOUNTING AND WIRING OF STARTERS AND SWITCHES FURNISHED AS PART OF THE FOODSERVICE EQUIPMENT UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
  - ALL JUNCTION BOXES, ELECTRICAL OUTLETS, COVER PLATES, SWITCHES, ETC. NOT BUILT INTO FIXTURES OR EQUIPMENT. ALL OUTLETS, JUNCTION BOXES, COVER PLATES, ETC. IN FOODSERVICE AREAS MUST BE MOISTURE PROOF.
  - ALL PLUGS AND CORDS SHALL BE NEMA, RATED AND FULLY APPROVED FOR MANUFACTURE AND FABRICATED EQUIPMENT.
  - SHUNT-TRIP CIRCUIT BREAKERS OR DISCONNECTS FOR FIRE SUPPRESSION SYSTEM SHUT-OFF FOR FOOD SERVICE EQUIPMENT BENEATH VENTILATORS AS REQUIRED BY N.F.P.A. 36 AND LOCAL, STATE AND NATIONAL CODES.
  - F.I. RECEPTACLES AS REQUIRED BY LOCAL, STATE, AND NATIONAL CODES.
  - DISCONNECTS OR OTHER DEVICES AS MAY BE REQUIRED BY LOCAL, STATE, AND NATIONAL CODES.
  - RECEPTACLES IN STORAGE AREA AS REQUIRED BY LOCAL, STATE, AND NATIONAL CODES.
  - ALL 120 VOLT CONVENIENCE OUTLETS NOT DESIGNATED WITH SPECIFIC LOADS SHALL BE RATED AT 16.0 AMP LOAD (20 AMP BREAKER). ELECTRICAL CONTRACTOR IS TO PROVIDE ANY ADDITIONAL OUTLETS AS CALLED FOR BY THE ARCHITECT, OWNER, OR ELECTRICAL ENGINEER.
- WHEN APPLICABLE, THE ELECTRICAL CONTRACTOR SHALL PROVIDE CIRCUIT AND WIRING, INSTALL ELECTRICAL COMPONENTS (PROVIDED BY FOODSERVICE EQUIPMENT CONTRACTOR) AND INTERWIRE BETWEEN THE FOLLOWING:**
- EXHAUST HOODS FURNISHED BY FOODSERVICE EQUIPMENT CONTRACTOR WITH LIGHT FIXTURES, EMPTY CONDUIT TO J-BOX AND PRE-WIRE PACKAGE. ELECTRICAL CONTRACTOR TO INTERCONNECT TO SWITCHES AND MAKE ALL FINAL CONNECTIONS.
  - FIRE CONTROL SYSTEM FURNISHED BY FOODSERVICE EQUIPMENT CONTRACTOR WITH MECHANICAL GAS SHUT-OFF FEATURE. FOODSERVICE EQUIPMENT CONTRACTOR TO INTERCONNECT TO GAS SOLENOID VALVE, SO AS TO SHUT OFF GAS SUPPLY TO EQUIPMENT WHEN ACTIVATED.
  - FIRE CONTROL SYSTEM FURNISHED BY FOODSERVICE EQUIPMENT CONTRACTOR WITH APPLIANCE SHUT-OFF FEATURE. ELECTRICAL CONTRACTOR TO INTERCONNECT TO SHUNT TRIPS PER MANUFACTURERS DIAGRAM, SO AS TO SHUT OFF ALL EQUIPMENT UNDER HOODS WHEN ACTIVATED.
  - POWER TO ALL ELECTRICALLY OPERATED COOKING EQUIPMENT UNDER HOODS TO BE FROM PANEL WHERE MAIN BREAKER IS INTERWRIVED WITH THE FIRE SUPPRESSION SYSTEM AND/OR FIRE TERMINAL BLOCK IN THE UTILITY DISTRIBUTION SYSTEM SO THAT THE POWER SHUT-OFF IS ACHIEVED UPON EITHER MANUAL OR AUTOMATIC OPERATION OF THE FIRE SUPPRESSION SYSTEM. ALL INTERWIRING BY ELECTRICAL CONTRACTOR.
  - HOOD CONTROLS AND FIRE PROTECTION SYSTEMS EACH REQUIRE EMERGENCY (24 HOUR) SEPARATE CIRCUIT ELECTRICAL SERVICE. ELECTRICAL CONTRACTOR TO PROVIDE CIRCUITS ON ROOF FOR EXHAUST SUPPLY FANS. VERIFY UTILITIES REQUIRED WITH MECHANICAL CONTRACTOR AND LOCATION OF UNITS WITH GENERAL CONTRACTOR. FINAL CONNECTIONS BY ELECTRICAL CONTRACTOR.
  - DISHMACHINE SHALL BE FURNISHED WITH EXHAUST FAN CONTROL SWITCH BY FOODSERVICE EQUIPMENT CONTRACTOR. ELECTRICAL CONTRACTOR TO INTERCONNECT TO EXHAUST FAN SO FAN OPERATES WHEN DISH MACHINE IS TURNED ON.
  - DISHMACHINE SHALL BE FURNISHED WITH LIMIT SWITCH BY FOODSERVICE EQUIPMENT CONTRACTOR. ELECTRICAL CONTRACTOR TO INTERCONNECT AND MAKE FINAL CONNECTIONS.
  - COLD STORAGE ROOMS SHALL BE FURNISHED BY FOODSERVICE EQUIPMENT CONTRACTOR WITH PRE-WIRED LIGHT AND SWITCH AT DOOR PANEL. ELECTRICAL CONTRACTOR TO PROVIDE INTERCONNECTING WIRING TO EXTRA LIGHT FIXTURES AND MAKE FINAL CONNECTIONS.
  - REFRIGERATION SYSTEMS SHALL BE FURNISHED AND INSTALLED BY FOODSERVICE EQUIPMENT CONTRACTOR, INCLUDING DEFROST WIRING BETWEEN CONDENSING UNIT AND EVAPORATOR COIL, FINAL POWER DROPS AND DISCONNECTS FOR CONDENSING UNITS AND EVAPORATOR COILS SHALL BE FURNISHED BY ELECTRICAL CONTRACTOR.
  - DISPOSERS SHALL BE FURNISHED BY FOODSERVICE EQUIPMENT CONTRACTOR WITH SOLENOID VALVE AND AUTO REVERSING CONTROL CENTER WITH MAGNETIC STARTER (S) AND START/STOP BUTTONS FOR FINAL CONNECTION BY ELECTRICAL CONTRACTOR.
  - UTILITY RACEWAY SHALL BE FURNISHED BY FOODSERVICE EQUIPMENT CONTRACTOR. PREWIRED AND READY FOR FINAL CONNECTION BY ELECTRICAL CONTRACTOR. FOOD SERVICE EQUIPMENT CONTRACTOR TO FURNISH CORD AND PLUG SETS FOR INSTALLATION TO EQUIPMENT BY ELECTRICAL CONTRACTOR.
  - AIR CURTAIN FAN TO BE FURNISHED BY FOODSERVICE EQUIPMENT CONTRACTOR WITH DOOR SWITCH. ELECTRICAL CONTRACTOR TO PROVIDE MASTER SWITCH AND MAKE FINAL CONNECTIONS.

**ELECTRICAL LEGEND**

Ⓛ	DUPLEX OUTLET - WALL
Ⓛ	DUPLEX OUTLET - COUNTER
Ⓛ	DUPLEX OUTLET - FLOOR
Ⓛ	DUPLEX OUTLET - CEILING
Ⓛ	QUADPLEX OUTLET - WALL
Ⓛ	QUADPLEX OUTLET - COUNTER
Ⓛ	QUADPLEX OUTLET - FLOOR
Ⓛ	QUADPLEX OUTLET - CEILING
Ⓛ	JUNCTION BOX - WALL
Ⓛ	JUNCTION BOX - COUNTER
Ⓛ	JUNCTION BOX - FLOOR
Ⓛ	JUNCTION BOX - CEILING
Ⓛ	SPECIAL OUTLET - WALL
Ⓛ	SPECIAL OUTLET - COUNTER
Ⓛ	SPECIAL OUTLET - FLOOR
Ⓛ	SPECIAL OUTLET - CEILING
Ⓛ	CONVENIENCE OUTLET
Ⓛ	DEDICATED DUPLEX OUTLET - 20 AMP CIRCUIT
Ⓛ	SWITCH
Ⓛ	TELEPHONE CONNECTION
Ⓛ	DATA CONNECTION
Ⓛ	DISTRIBUTION POINT - FLOOR
Ⓛ	DISTRIBUTION POINT - WALL



**LEFT FIELD CONCESSION:**  
HOT HOLDING DELIVERED TO LEFT FIELD STAND  
WALK-IN MARKET  
NO FOUNTAIN OR DRAFT BEVERAGES  
FULL COOKING  
• HOTDOGS  
• BURGERS  
• PIZZA  
• PACKAGED SNACKS  
• BOTTLED DRINKS ONLY  
• HOT BEVERAGES (as needed)

**1 LEFT FIELD CONCESSION - PLUMBING PLAN**  
1/4" = 1'-0"

**FOODSERVICE PLUMBING SCHEDULE**

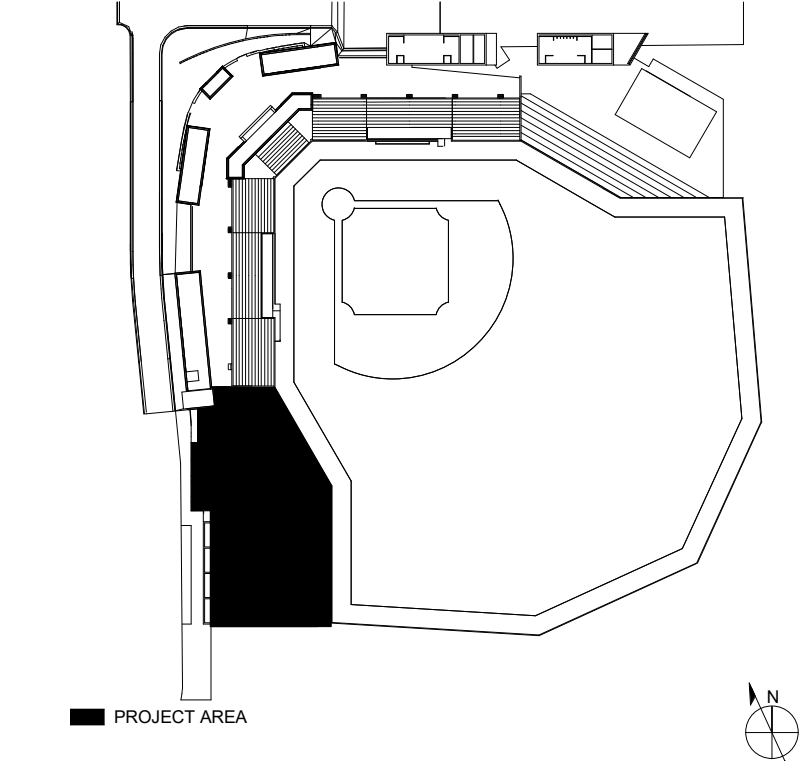
ITEM NO.	QTY	DESCRIPTION	HW SIZE	HW AFF	CW SIZE	CW AFF	IW SIZE	IW TYPE	DW SIZE	DW AFF	GAS SIZE	BTU/H	GAS AFF	PLUMBING REMARKS
200.2	1	WALKIN COOLER EVAPORATOR COIL					3/4"	FD						
200.5	1	WALKIN FREEZER EVAPORATOR COIL					3/4"	FD						
210	2	HAND SINK	1/2"	14"	1/2"	14"			1 1/2"	20"				
212	2	DEEP FAT FRYER, 2 BATTERY	0"	0"	0"	0"	0"		0"	0"	3/4"	70000	0"	
213	1	GRIDDLE GAS COUNTER TOP									3/4"	81000	2"	
214A	1	COMBI OVEN (TOP)			3/4"	0"	1 1/2"				3/4"	85000	0"	
214B	1	COMBI OVEN (BOTTOM)			3/4"	0"	1 1/2"				3/4"	85000	0"	
216	1	3-COMPARTMENT SINK, CORNER UNIT					2"	FS						
216.1	2	FAUCET, WALL MOUNT	1/2"	14"	1/2"	14"								
217	1	MOP SINK							2"	0"				
217.1	1	SERVICE FAUCET	1/2"	14"	1/2"	14"								
218	1	S/S WORKTABLE WITH WELD IN SINK					1"	FS						
218.1	1	FAUCET, PRE-RINSE	1/2"	14"	1/2"	14"								

**200-NOTES-ELECTRICAL**  
12" = 1'-0"



SCO PROJECT NO. 22-24384-01A  
NC STATE PROJ. NO. 202120015

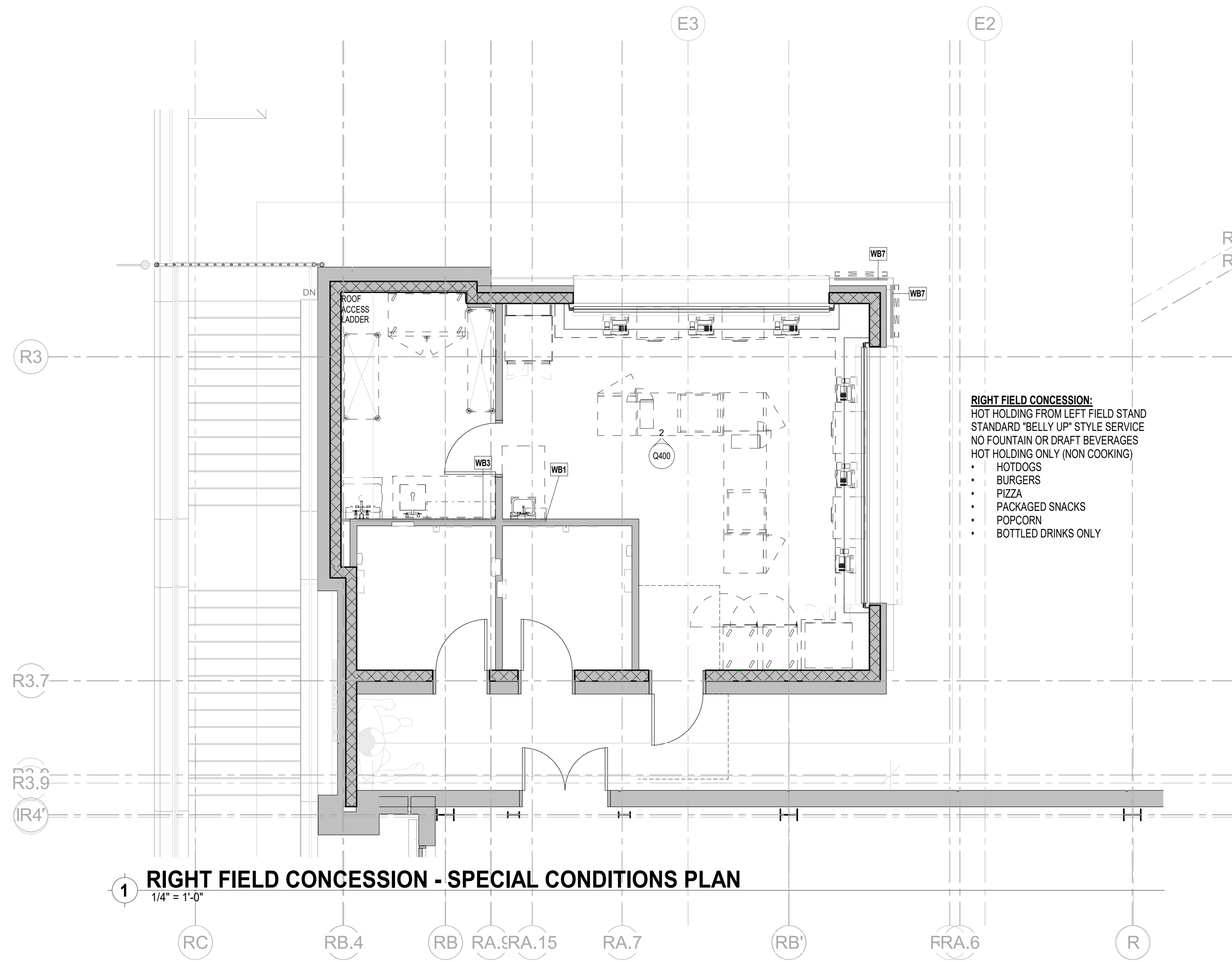
KEY PLAN



**FOODSERVICE SPECIAL CONDITIONS NOTES:**

- GENERAL CONTRACTOR TO PROVIDE AND INSTALL CONDUITS FOR BEVERAGE SYSTEMS. IT SHALL BE WATER TIGHT AND HAVE AN 1/8" MINIMUM RADIUS WITH SWEEP BENDS. ALSO CONDUIT SLEEVES SHALL BE OF P.V.C. EMT OR EQUAL QUALITY GRADE, UNLESS SPECIFIED OTHERWISE. SLEEVES SHALL BE FLUSHED CLEAN AND CAPPED.
- ALL WALL BACKING TO BE 3/4" FIRE RETARDANT PLYWOOD OR 1/2" GALVANIZED METAL BY G.C.

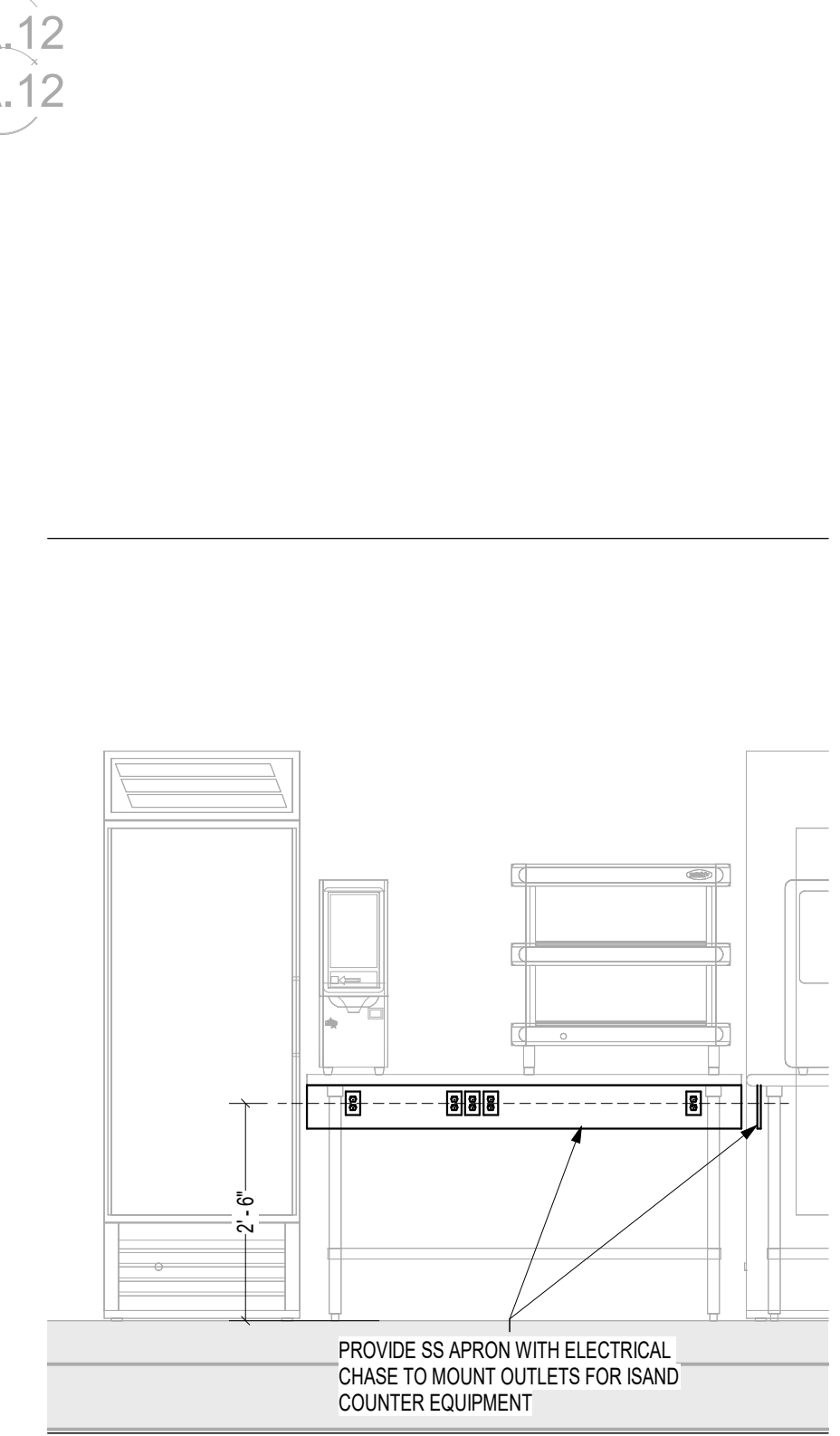
WALL BACKING LEGEND	
—	PROVIDE WALL BACKING AT THIS LOCATION AS INDICATED ON FLOOR PLAN AND LEGEND BELOW
WB1	HAND SINK BACKING @ 30" & 54" AFF
WB2	EXHAUST HOOD BACKING @ 24" AFF (RESTRAINING CABLES)
WB3	WALL MOUNTED SHELF, SEE ELEVATION FOR HEIGHTS
WB4	HOSE REEL BACKING @ 48" & 84" AFF
WB5	AIR CURTAIN BACKING @ 78" AFF
WB6	WATER FILTER BACKING @ 90" AFF
WB7	WALL MOUNTED LED SCREEN, CENTER OF SCREEN @ 60" AFF



**1 RIGHT FIELD CONCESSION - SPECIAL CONDITIONS PLAN**  
1/4" = 1'-0"

**RIGHT FIELD CONCESSION:**  
HOT HOLDING FROM LEFT FIELD STAND  
STANDARD 'BELLY UP' STYLE SERVICE  
NO FOUNTAIN OR DRAFT BEVERAGES  
HOT HOLDING ONLY (NON COOKING)

- HOTDOGS
- BURGERS
- PIZZA
- PACKAGED SNACKS
- POPCORN
- BOTTLED DRINKS ONLY



**2 ELECTRICAL DETAIL FOR RIGHT FIELD ISLAND COUNTERS**  
1/2" = 1'-0"

REVISIONS

NO.	BY	DESCRIPTION	DATE
VBD		PACKAGE A - LEFT & RIGHT FIELD ADDITIONS	1/29/2024

**NC STATE UNIVERSITY**

**DOAK FIELD ENHANCEMENT**  
1081 Varsity Dr  
Raleigh, NC 27706

DRAWN BY: TET DATE: 01/22/2024

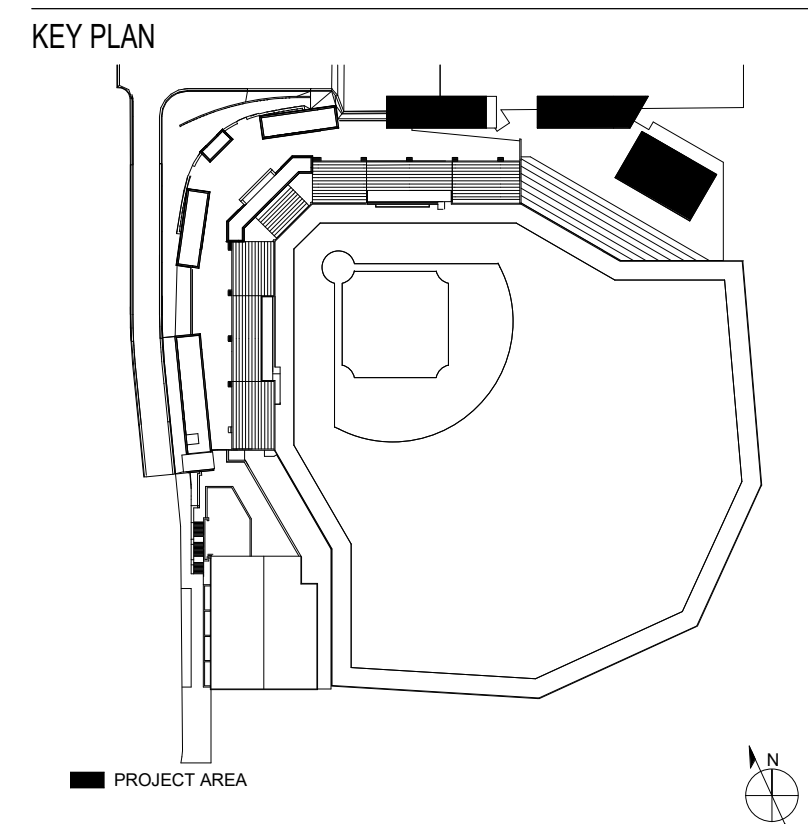
PROJECT NO.: 20220400 SCALE: As indicated

DRAWING NAME: FS SPECIAL CONDS PLAN - RIGHT FIELD CONCESSION

FLOOR/SECTION PHASE: FD2 DRAWING NO.: Q400



SCO PROJECT NO. 22-24384-01A  
NC STATE PROJ. NO. 202120015



**FOODSERVICE SPECIAL CONDITIONS NOTES:**

- GENERAL CONTRACTOR TO PROVIDE AND INSTALL CONDUITS FOR BEVERAGE SYSTEMS. IT SHALL BE WATER TIGHT AND HAVE AN 18" MINIMUM RADIUS WITH SWEEP BENDS. ALSO, CONDUIT SLEEVES SHALL BE OF PVC, EMT OR EQUAL QUALITY GRADE, UNLESS SPECIFIED OTHERWISE. SLEEVES SHALL BE FLUSHED CLEAN AND CAPPED.
- ALL WALL BACKING TO BE 3/4" FIRE RETARDANT PLYWOOD OR 16 GA. GALVANIZED METAL BY G.C.

WALL BACKING LEGEND	
—	PROVIDE WALL BACKING AT THIS LOCATION AS INDICATED ON FLOOR PLAN AND LEGEND BELOW
WB1	HAND SINK, BACKING @ 30" & 54" AFF
WB2	EXHAUST HOOD, BACKING @ 24" AFF (RESTRAINING CABLES)
WB3	WALL MOUNTED SHELF, SEE ELEVATION FOR HEIGHTS
WB4	HOSE REEL, BACKING @ 48" & 84" AFF
WB5	AIR CURTAIN, BACKING @ 78" AFF
WB6	WATER FILTER, BACKING @ 90" AFF
WB7	WALL MOUNTED LED SCREEN, CENTER OF SCREEN @ 80" AFF

**1 LEFT FIELD CONCESSION - SPECIAL CONDITIONS PLAN**  
1/4" = 1'-0"

**3 ELECTRICAL DETAIL FOR LEFT FIELD ISLAND COUNTERS**  
1/2" = 1'-0"

**2 ELECTRICAL DETAIL FOR PASS THROUGH WINDOW**  
1/2" = 1'-0"

2/2/2024 9:32:22 AM Autodesk Docs://20220400 - NCState-NC State Doak Field Baseball Stadium/20220400\_022\_CENTRAL.rvt

REVISIONS		
NO.	DESCRIPTION	DATE

VBD PACKAGE A - LEFT & RIGHT FIELD ADDITIONS 1/29/2024

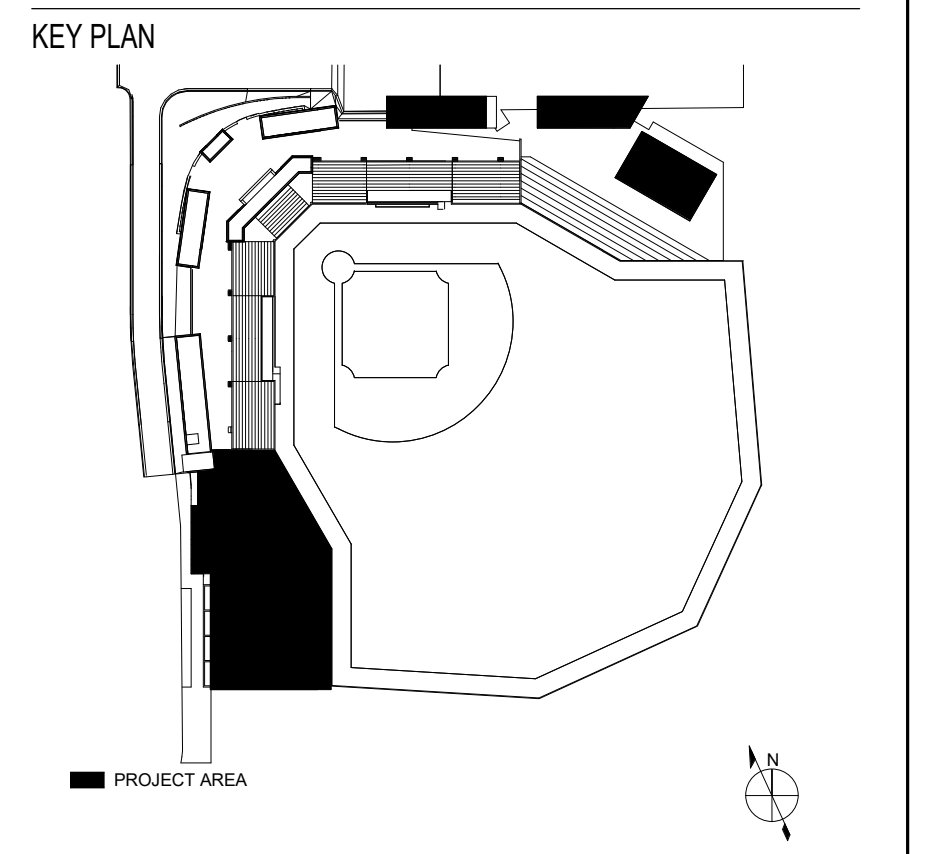
**NC STATE UNIVERSITY**  
DOAK FIELD ENHANCEMENT  
1081 Varsity Dr  
Raleigh, NC 27606

DRAWN BY: TET DATE: 01/22/2024  
PROJECT NO.: 20220400 SCALE: As indicated  
DRAWING NAME: FS SPECIAL CONDS PLAN - LEFT FIELD CONCESSION

FLOOR/SECTION PHASE: FD2 DRAWING NO.: Q401



SCO PROJECT NO. 22-24384-01A  
NC STATE PROJ. NO. 202120015



REVISIONS		
NO.	DESCRIPTION	DATE

**NC STATE UNIVERSITY**  
DOAK FIELD ENHANCEMENT  
1081 Varsity Dr  
Raleigh, NC 27606

DRAWN BY: TET DATE: 01/22/2024




PROJECT NO. 20220400 SCALE

DRAWING NAME: FOODSERVICE DETAILS - EXHAUST HOODS

FLOOR/SECTION PHASE DRAWING NO.

**FD2 Q501**

FOR QUESTIONS, CALL THE  
Charlotte/Piedmont  
REGION 30  
PHONE: (704) 844 - 9888  
EMAIL: reg30@econair.com

ECON-AIR HOODS ARE  
BUILT IN COMPLIANCE WITH  
    
NFPA #96  
NSF  
UL 710 & ULC710 STANDARDS  
E.T.L. LISTED 3054804-001

REVISIONS		
NO.	DESCRIPTION	DATE

**econ·air**  
Charlotte/Piedmont  
www.econair.com  
8500 Central Road, Suite 105, Charlotte, NC 28226 PHONE: (704) 844-9888 FAX: 919-277-9592 EMAIL: reg30@econair.com

NCSU DOAK FIELD  
1081 Varsity Drive,  
Raleigh, NC, 27607

DATE: 1/18/2024  
DWG.#: 6545551  
DRAWN BY:  
SCALE: 3/4" = 1'-0"  
MASTER DRAWING

SHEET NO.  
1

**HOOD INFORMATION - JOB#6545551**

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM				TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG		
										WIDTH	LENG	HEIGHT	DIA			CFM	VEL	SP
1		6024 EX-2-PSP-F	ECON-AIR	14' 0"	600 DEG	I	HEAVY	225	3150	4'	12"	1575	2005	-0.785"	2520	430 SS	ALONE	ALONE

**HOOD INFORMATION**

HOOD NO	TAG	FILTER(S)				LIGHT(S)			UTILITY CABINET(S)				FIRE SYSTEM	HOOD HANGING PIPING		
		TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE	FIRE SYSTEM TYPE			SIZE	ELECTRICAL MODEL #
1		CAPTRATE SOLID FILTER	10	20"	16"	85X SEE FILTER SPEC	6	RECESSED ROUND	NO						YES	786 LBS

**HOOD OPTIONS**

HOOD NO	TAG	OPTION
1		FIELD WRAPPER 6.00" HIGH FRONT, LEFT, RIGHT. BACKSPLASH 110.00" HIGH X 204.00" LONG 430 SS VERTICAL. RISER SENSOR INSTALL 6IN PLEN.

**PERFORATED SUPPLY PLENUM(S)**

HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)			
							WIDTH	LENG	DIA	CFM
1		Front	168"	16"	6"	MJA	12"	28"	630	0.152"
						MJA	12"	28"	630	0.152"
						MJA	12"	28"	630	0.152"

**WALL-MOUNT UTILITY CABINET**

HOOD NO	LOCATION	SIZE	UTILITY CABINET(S)		WEIGHT
			FIRE SYSTEM	ELECTRICAL	
1	WALL MNT	12"x48"x24"	TANK FS	4.0/4.0	340.00 LBS

**FIRE SYSTEM INFORMATION - JOB#6545551**

FIRE SYSTEM NO	TAG	TYPE	SIZE	MAX FP	DESIGN FP	INSTALLATION	
						SYSTEM	LOCATION ON HOOD
1		TANK FS	4.0/4.0	40	36	WALL UTILITY CABINET LEFT	N/A

**GAS VALVE(S)**

FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1		SC ELECTRICAL	1.500	ECON-AIR

**SPECIFICATION: CAPTRATE® GREASE-STOP® SOLID FILTER**

THE CAPTRATE GREASE-STOP SOLID FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-Baffle DESIGN IN CONJUNCTION WITH A SLOTTED REAR Baffle DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

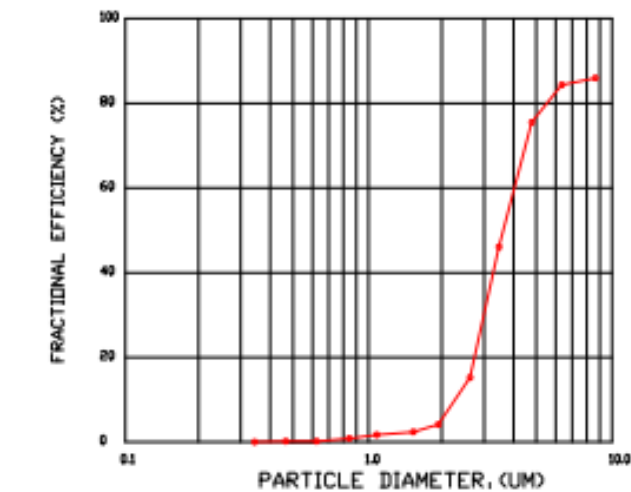
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

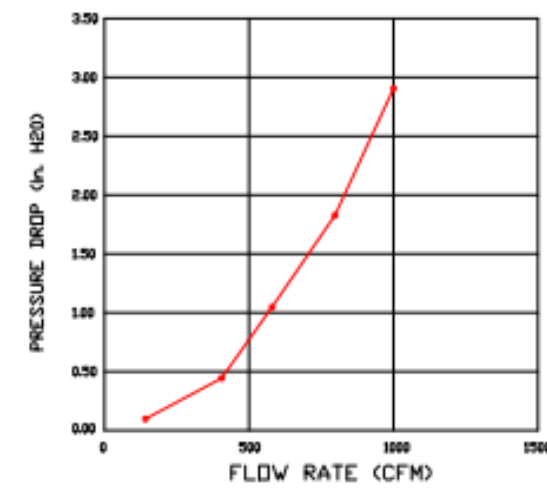
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85X GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

THE CAPTRATE GREASE-STOP SOLID WAS TESTED TO ASTM STANDARD ASTM F2519-05, MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.

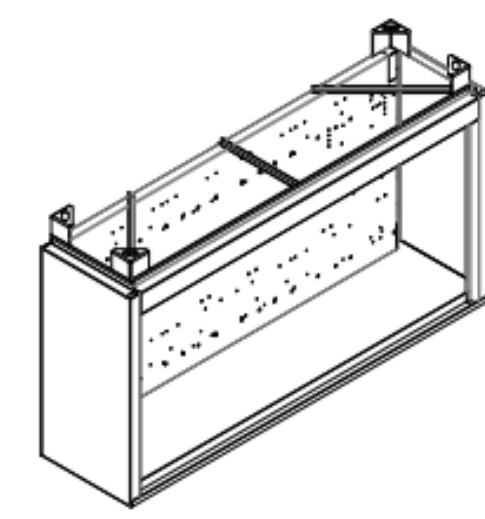
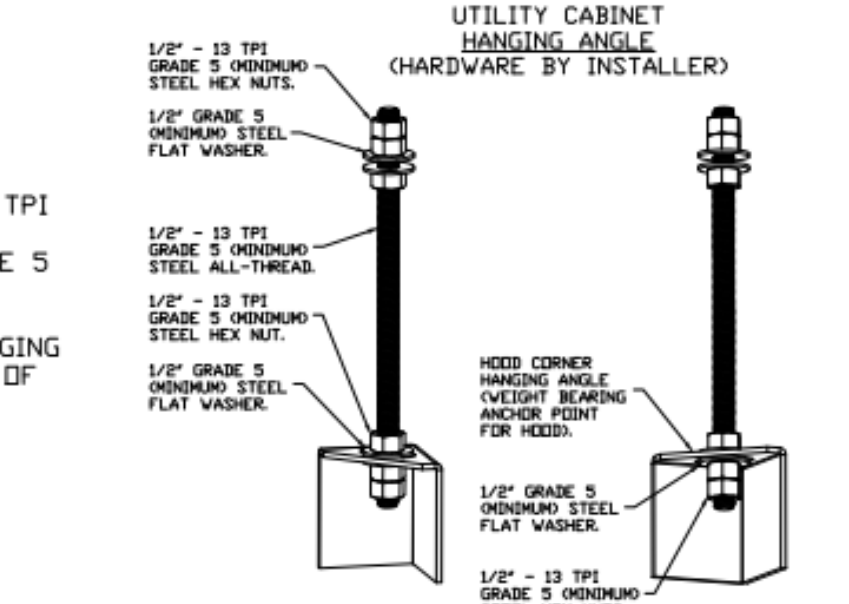
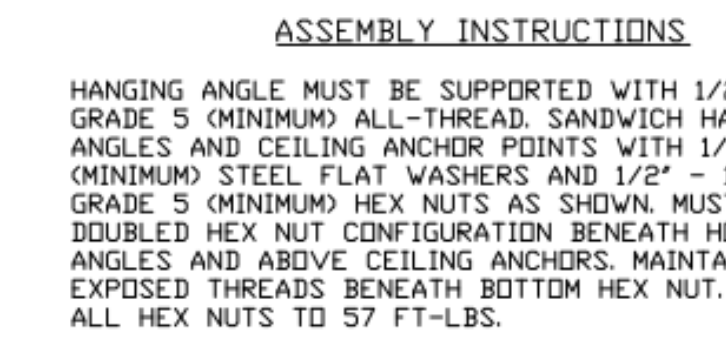
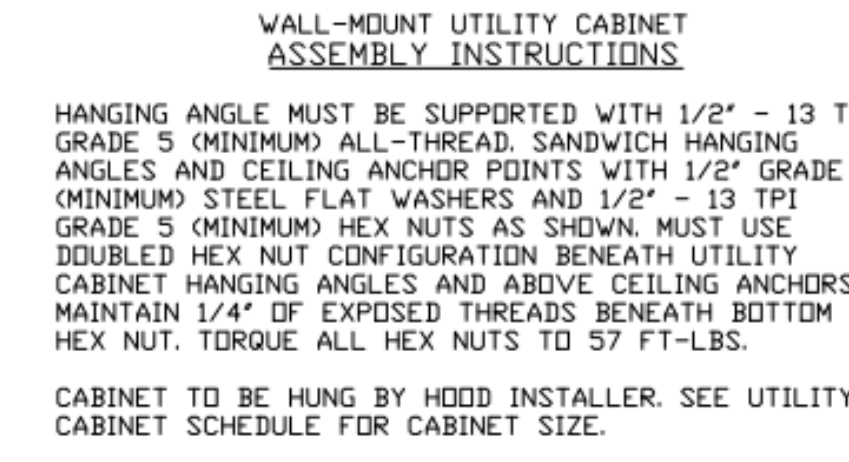
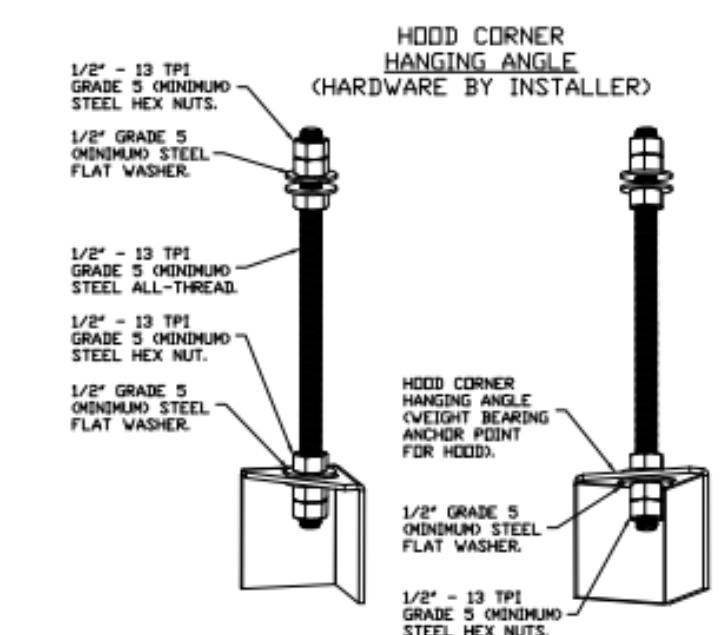
EFFICIENCY VS. PARTICLE DIAMETER



PRESSURE DROP VS. FLOW RATE



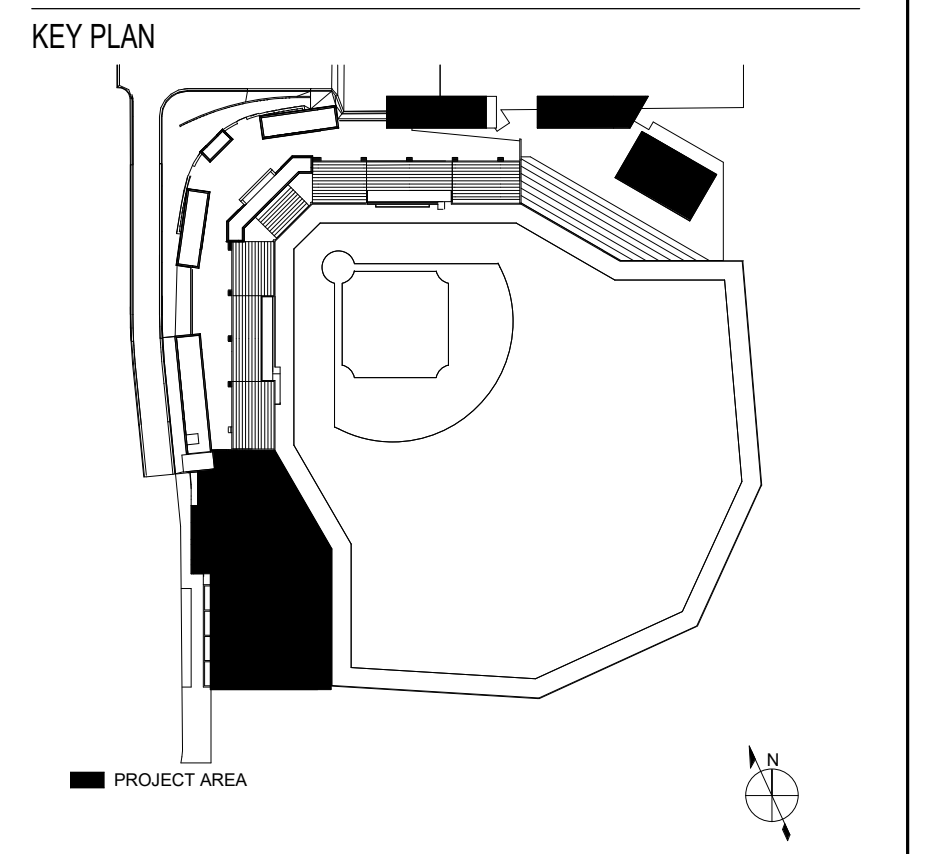
CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:  
NFPA #96  
NSF STANDARD #2  
UL STANDARD #1046  
INT. MECH. CODE (IMC)  
ULC-5645



DESIGN: 60222 BY EWINGCOLE  
CONSULTANTS



SCO PROJECT NO. 22-24384-01A  
NC STATE PROJ. NO. 202120015



REVISIONS		
NO.	DESCRIPTION	DATE

**NC STATE UNIVERSITY**  
DOAK FIELD ENHANCEMENT  
1081 Varsity Dr  
Raleigh, NC 27606

DRAWN BY: TET DATE: 01/22/2024

PROJECT NO. 20220400 SCALE

DRAWING NAME

FOODSERVICE DETAILS - EXHAUST HOODS

FLOOR/SECTION PHASE DRAWING NO.

**FD2 Q502**

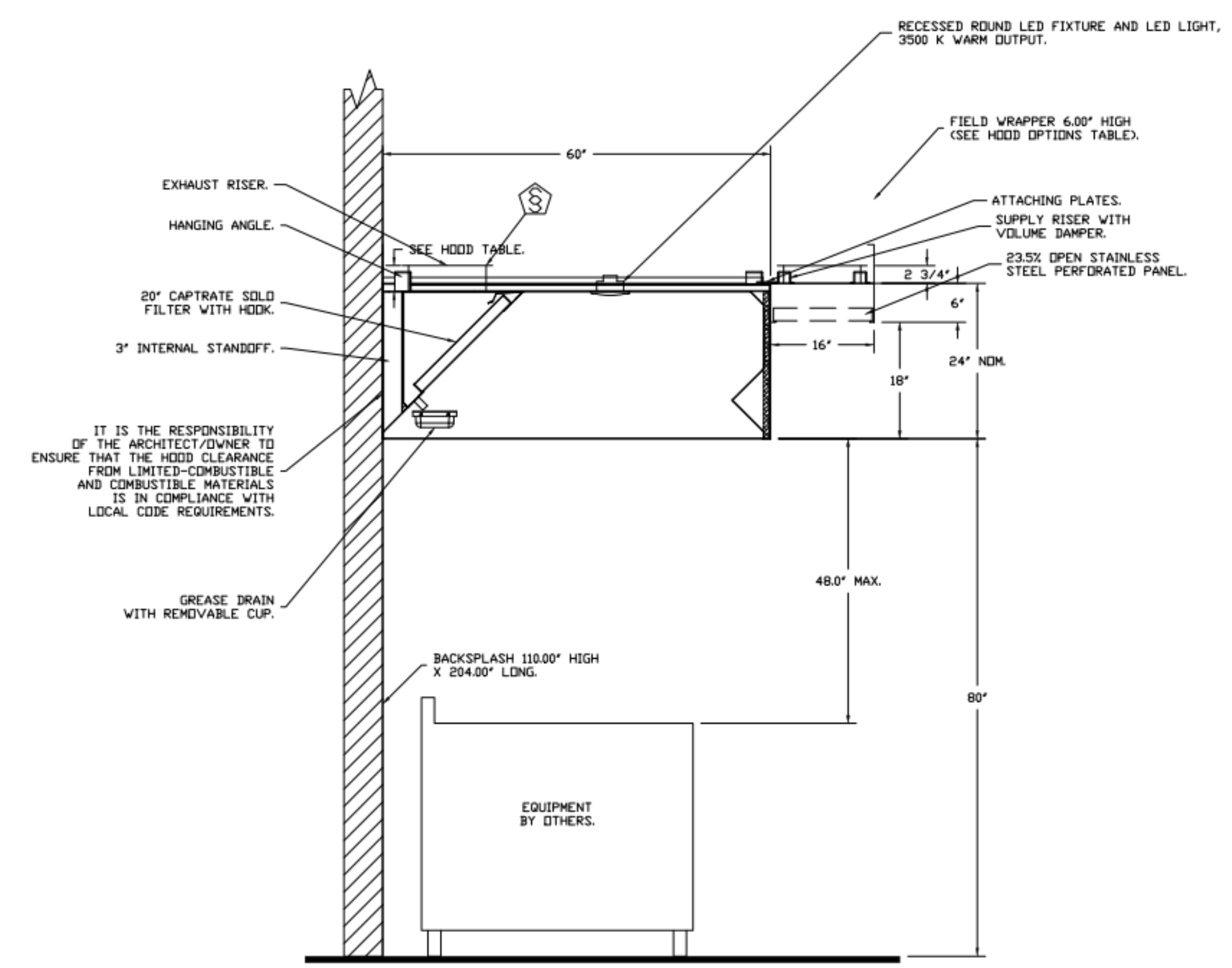
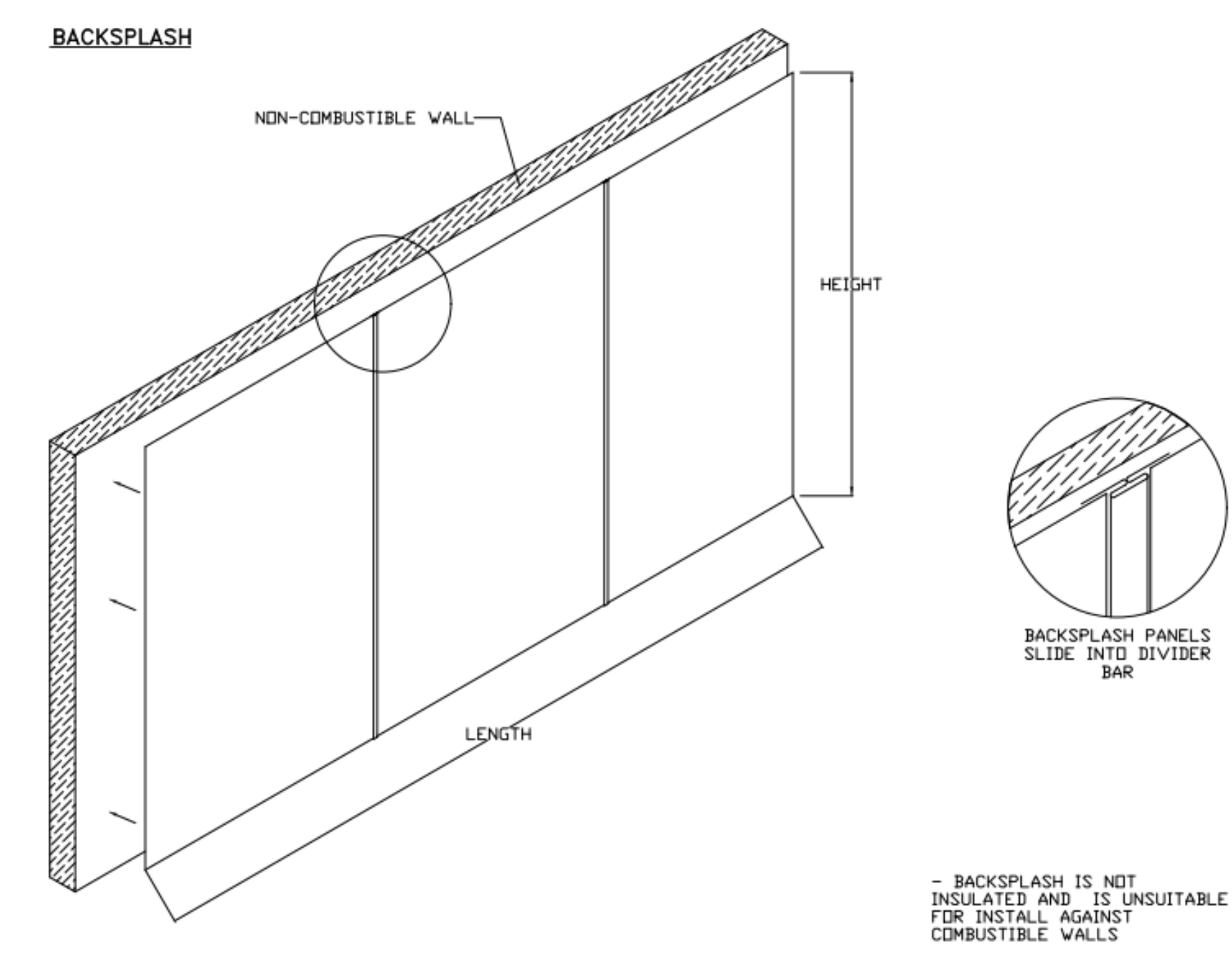
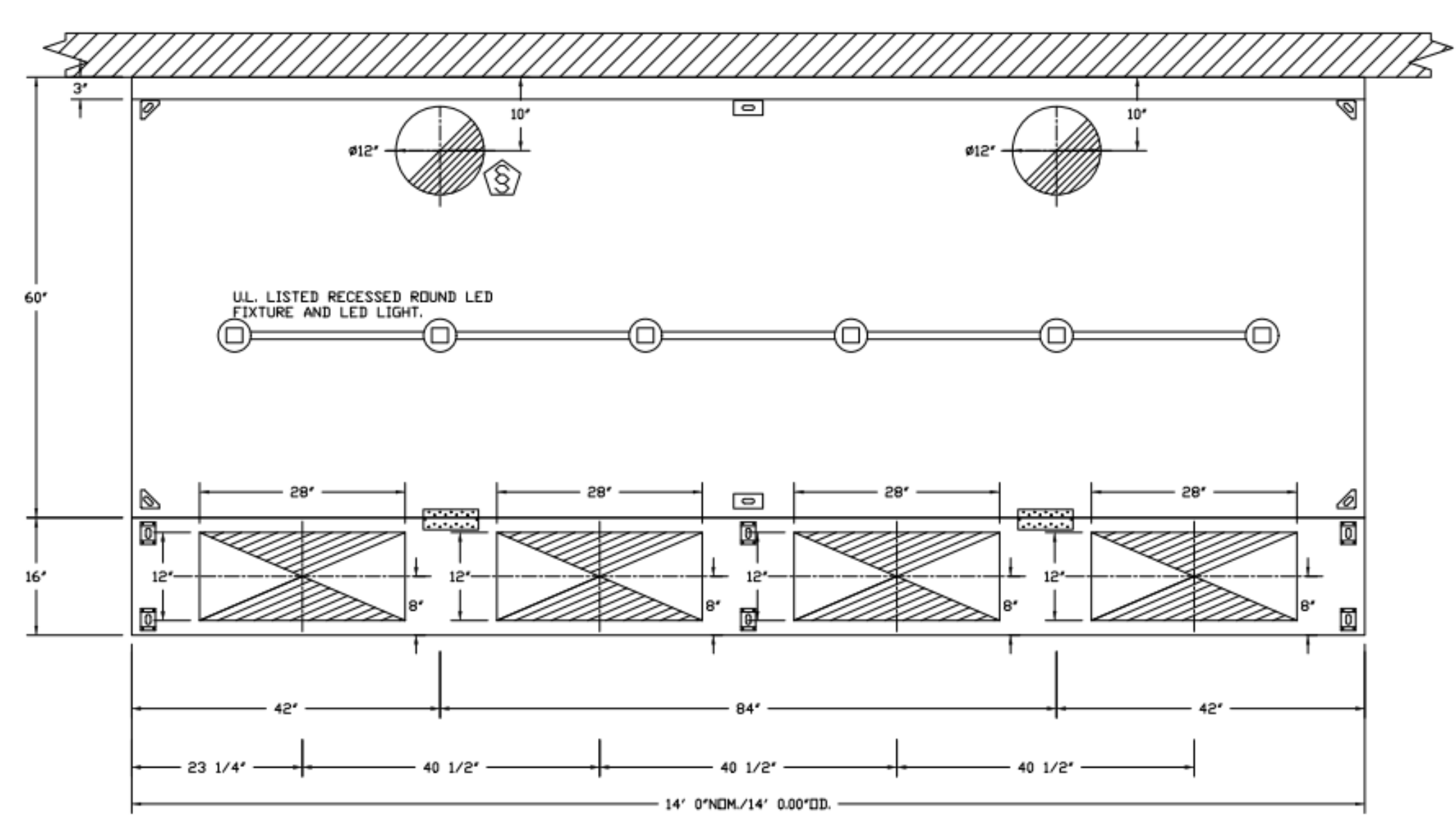
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**econ·air**  
Charlotte/Piedmont  
www.econair.com  
6303 Camel Road Suite 105, Charlotte, NC 28226 PHONE: (704) 944-6888 FAX: 919273592 EMAIL: reg30@econair.com

NCSU DOAK FIELD  
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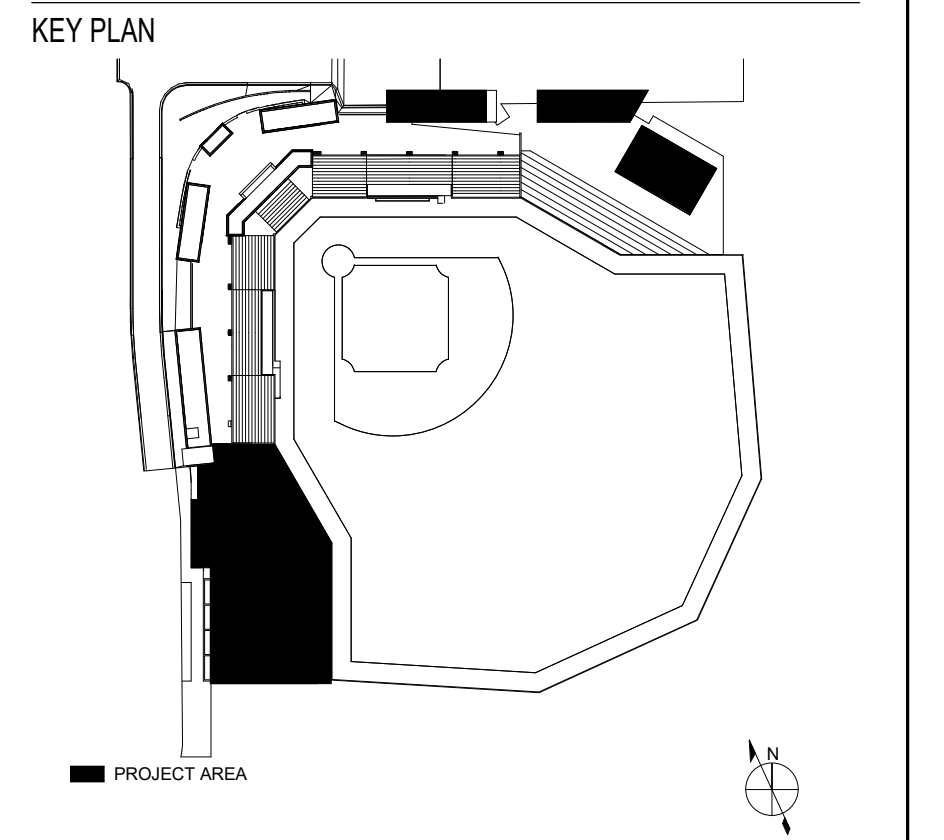
DATE: 1/18/2024  
DWG.#: 6545551  
DRAWN BY:  
SCALE: 3/4" = 1'-0"  
MASTER DRAWING

SHEET NO.  
2





SCO PROJECT NO. 22-24384-01A  
NC STATE PROJ. NO. 202120015



REVISIONS

NO.	BY	DESCRIPTION	DATE
VBD	PACKAGE A - LEFT & RIGHT FIELD ADDITIONS		1/29/2024

**NC STATE UNIVERSITY**  
DOAK FIELD ENHANCEMENT  
1081 Varsity Dr  
Raleigh, NC 27607

DRAWN BY: TET DATE: 01/22/2024

PROJECT NO. 20220400 SCALE

DRAWING NAME: FOODSERVICE DETAILS - EXHAUST HOODS

FLOOR/SECTION PHASE DRAWING NO.

FD2 Q503

REVISIONS

NO.	BY	DESCRIPTION	DATE
1			
2			
3			

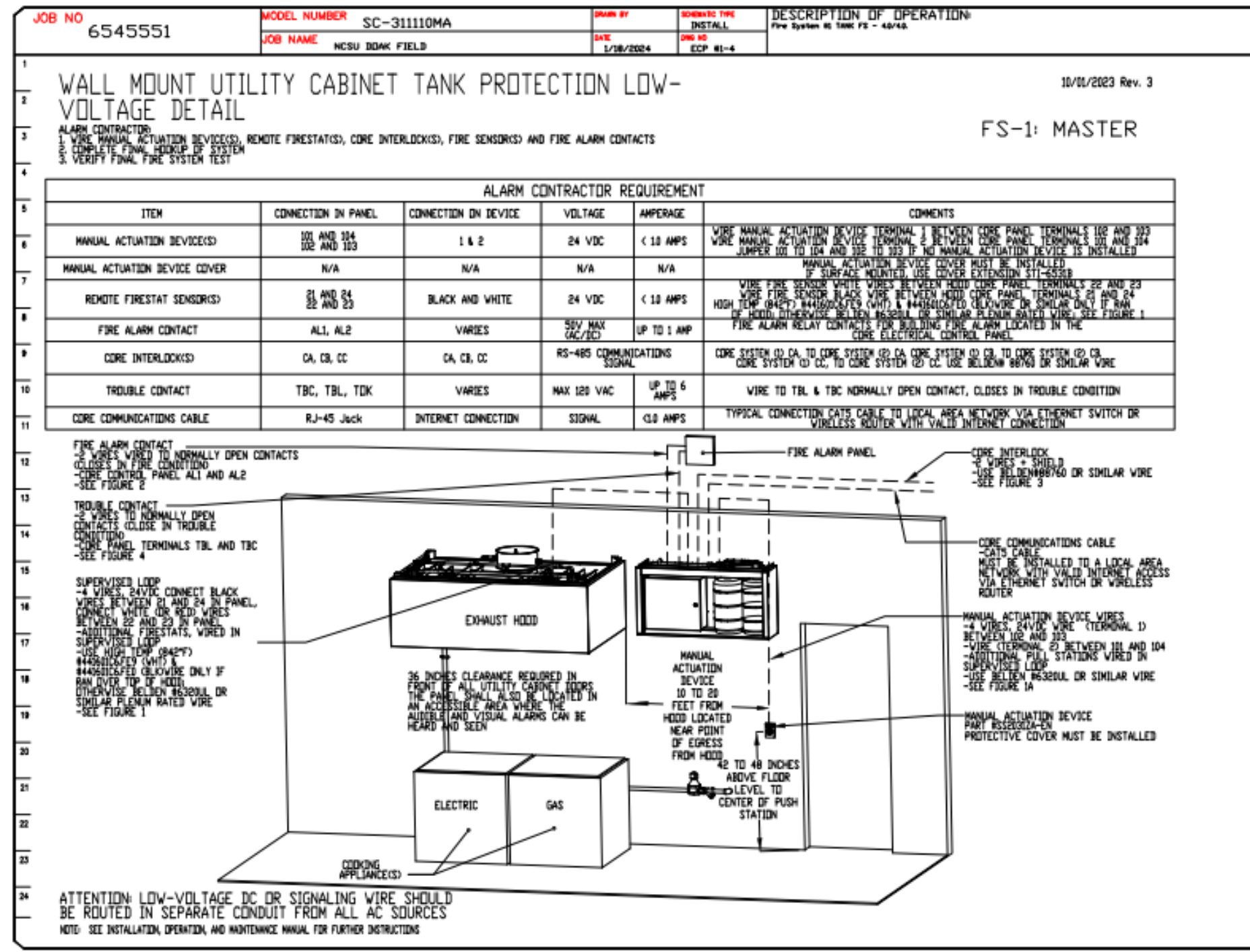
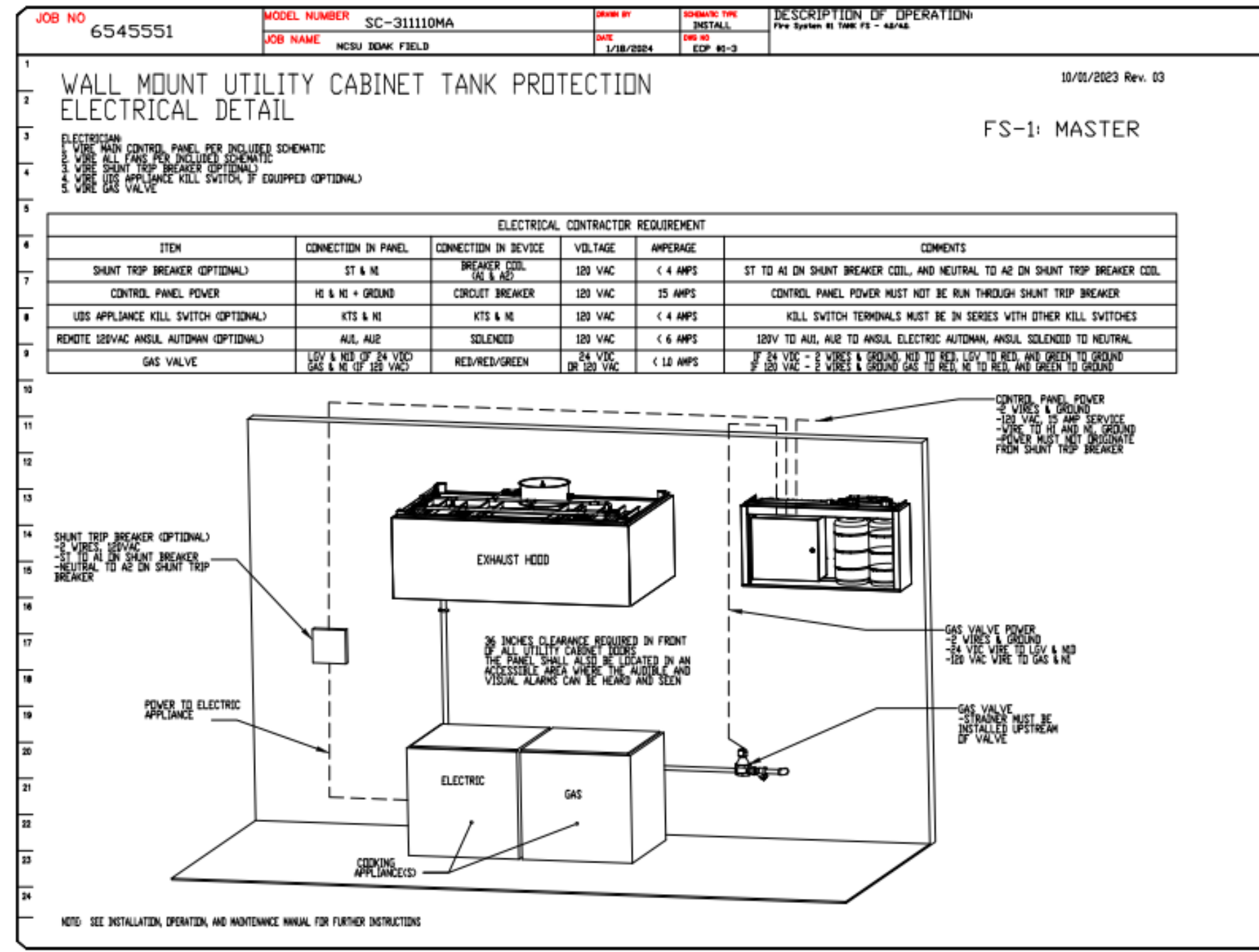
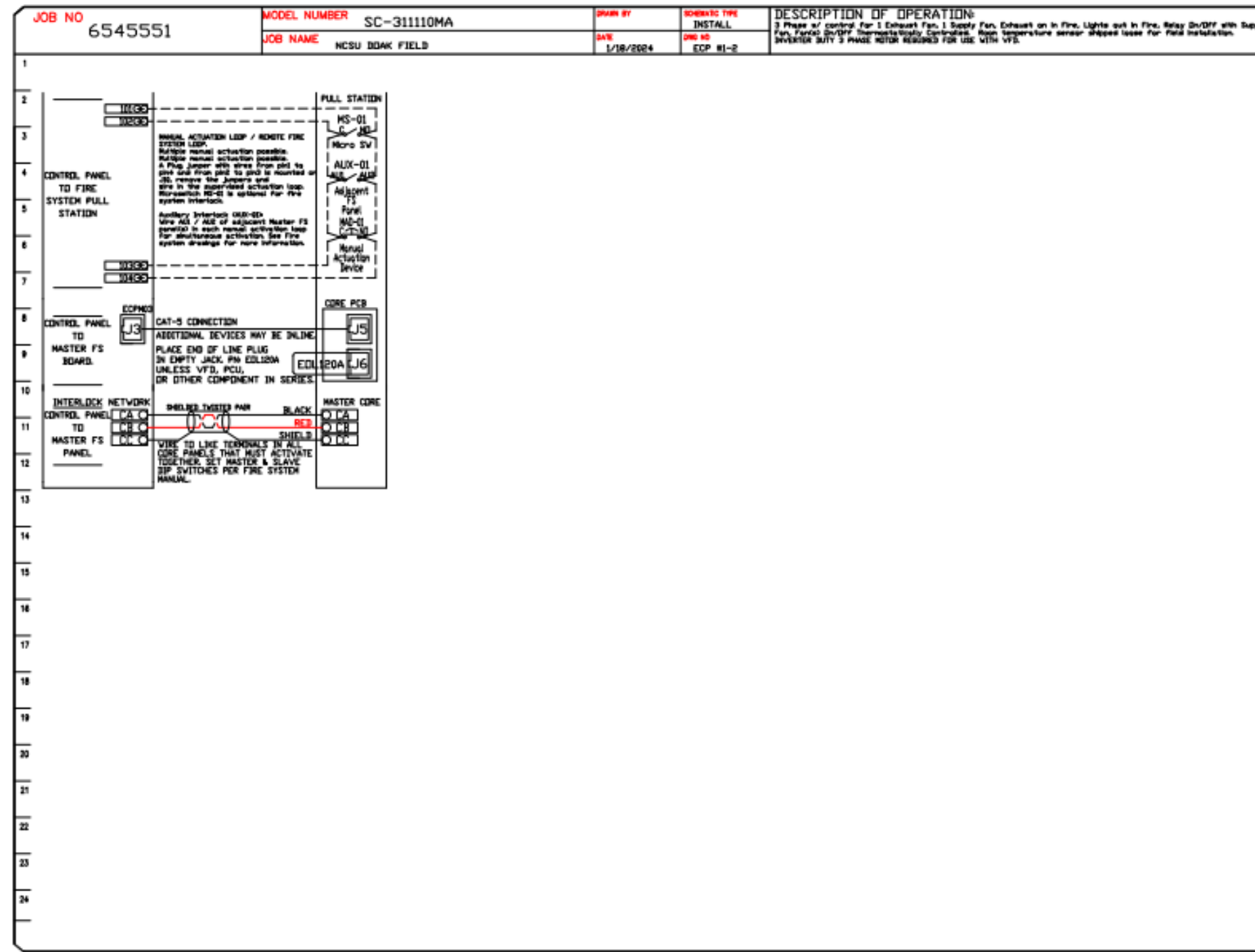
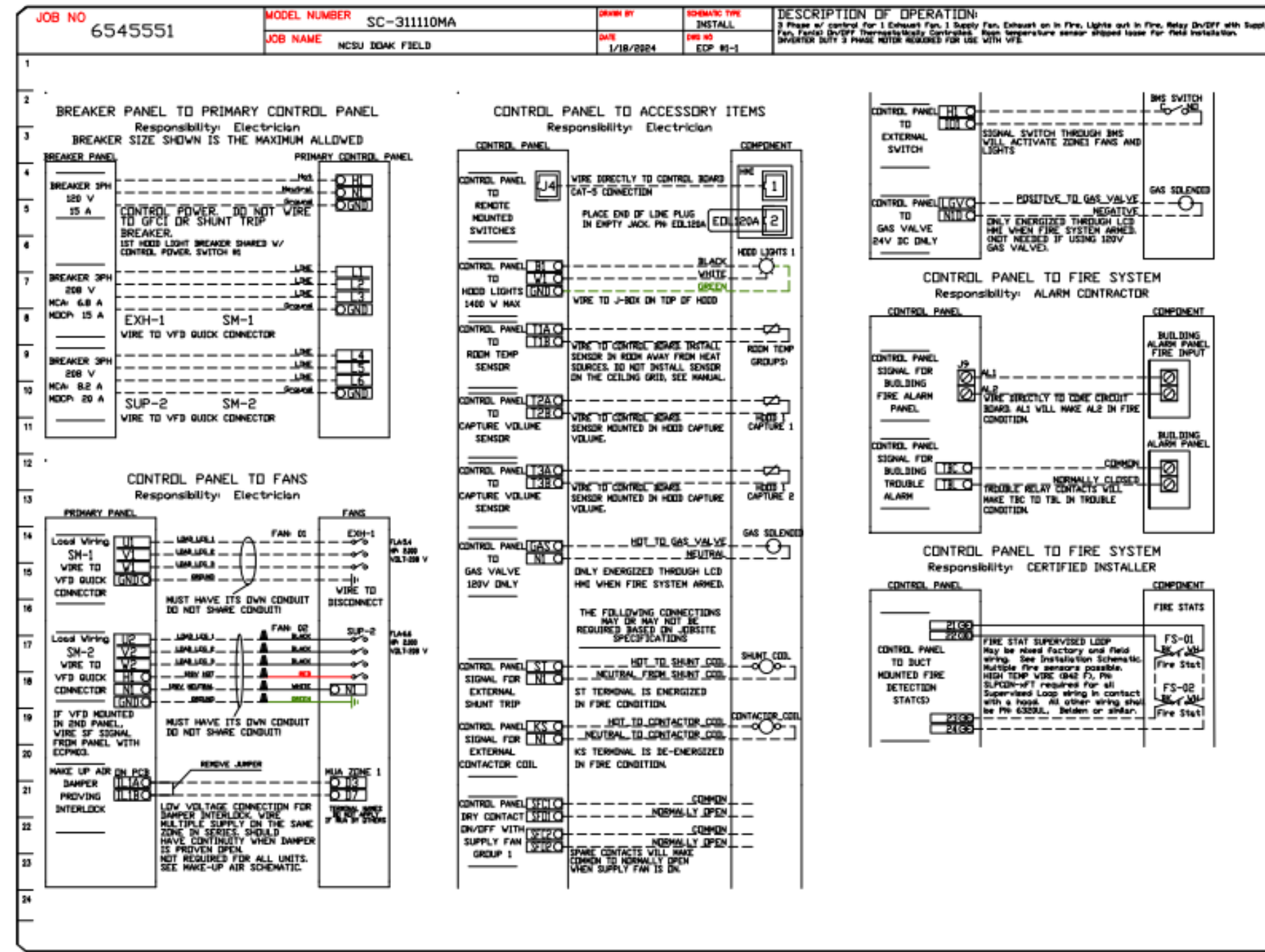
**recon-air**  
Charlotte/Piedmont  
6303 Carmel Road, Suite 105, Charlotte, NC 28226  
PHONE: (704) 844-9988 FAX: 919-272-9982  
EMAIL: info@reconair.com

NCSU DOAK FIELD  
1081 Varsity Drive,  
Raleigh, NC, 27607

DATE: 1/18/2024  
DWG.#: 6545551  
DRAWN BY:  
SCALE: 3/4" = 1'-0"  
MASTER DRAWING  
SHEET NO. 3

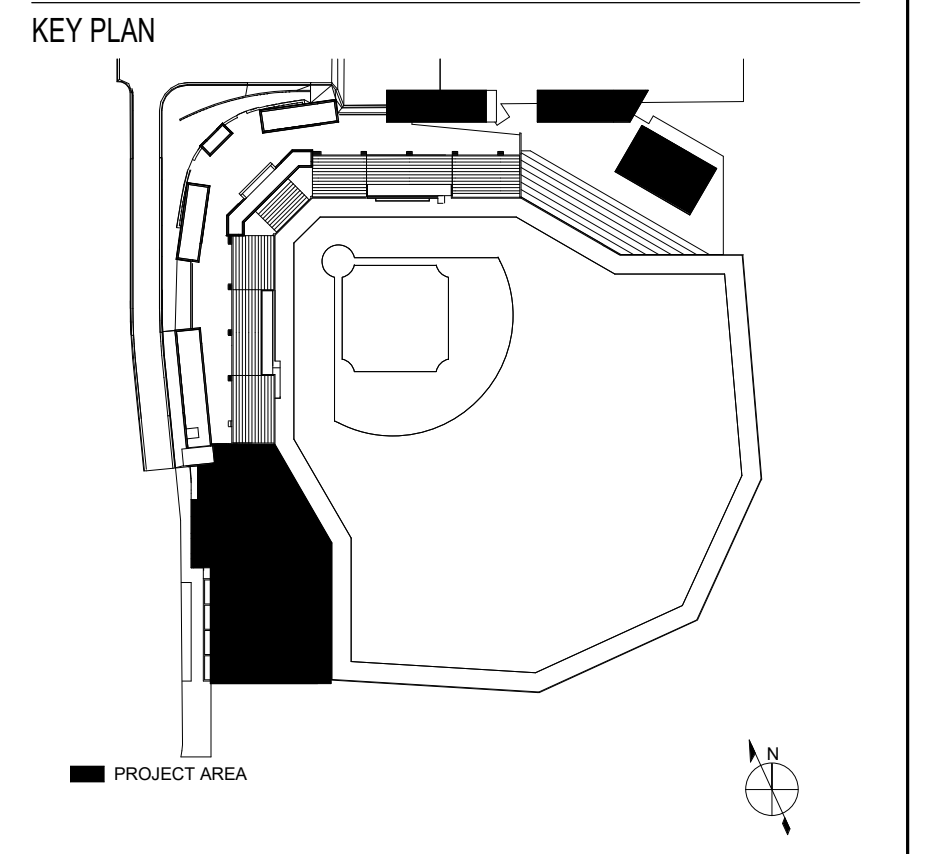
**ELECTRICAL PACKAGE - JOB#6545551**

NO.	TAG	PACKAGE #	LOCATION	SWITCHES	OPTION	FANS CONTROLLED
1		SC-31110MA	WALL UTILITY CABINET LEFT	LOCATION: FAC. MOUNT LEFT SIDE OF HOOD QUANTITY: 1 LIGHT 1 FAN	SMART CONTROLS THERMOSTATIC CONTROL V/V RELAY IN-OFF WITH SUPPLY	TYPE: 1 HP VOLT FLA EXHAUST: 3 2,000 200 5.4 SUPPLY: 3 2,000 200 6.6





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PROJECT NO. 20220400 SCALE: 3/4" = 1'-0"

DRAWING NAME: FOODSERVICE DETAILS - EXHAUST HOODS

FLOOR/SECTION PHASE: FD2 DRAWING NO. Q504

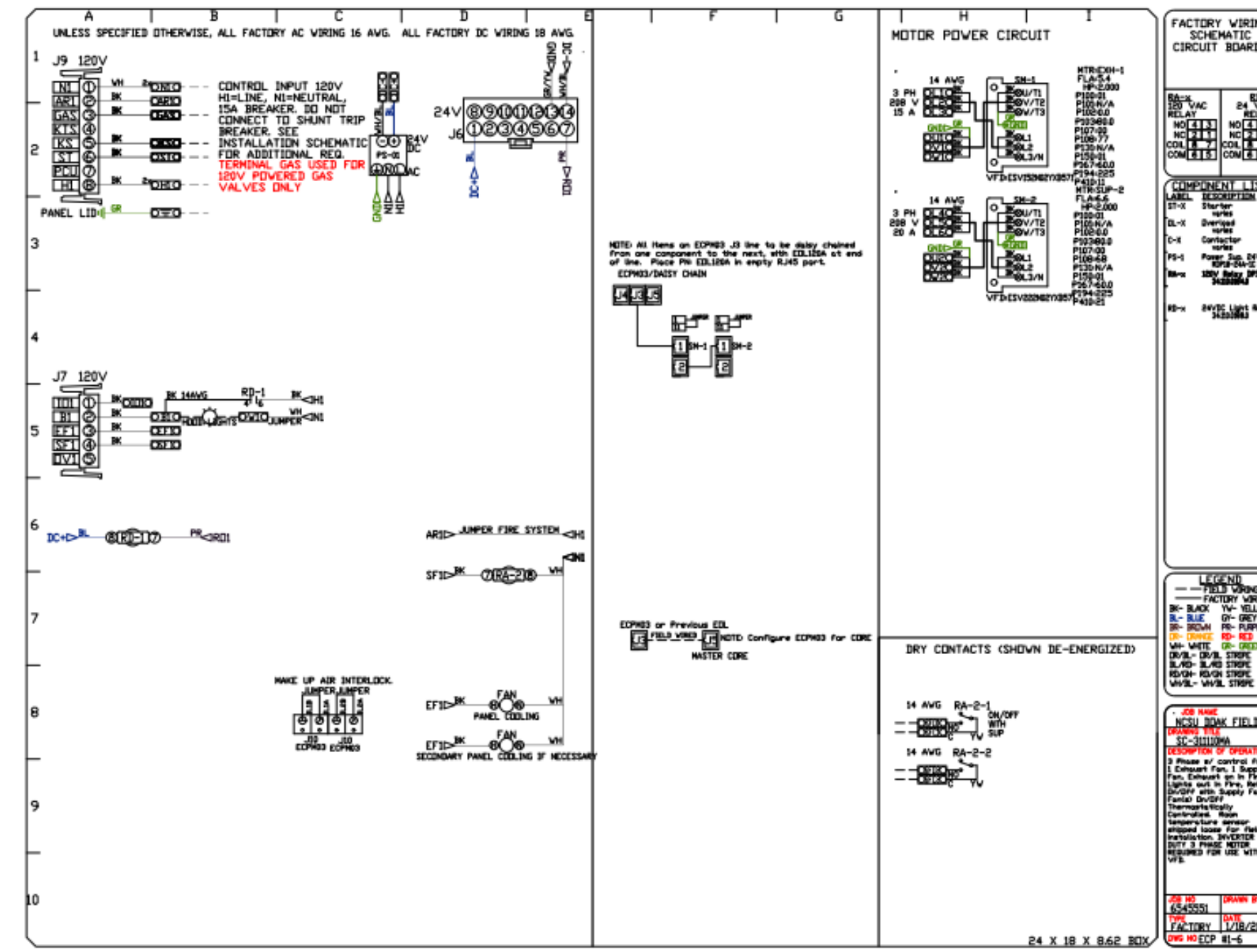
**REVISIONS**

NO.	DESCRIPTION	DATE

**recon-air**  
Charlotte/Piedmont  
6500 Carmel Road, Suite 105, Charlotte, NC 28226 PHONE: (704) 944-1808 FAX: 9192795952 EMAIL: info@reconair.com

NCSU DOAK FIELD  
1081 Varsity Drive,  
Raleigh, NC, 27607

DATE: 1/18/2024  
DWG.#: 6543551  
DRAWN BY:  
SCALE: 3/4" = 1'-0"  
MASTER DRAWING  
SHEET NO. 4

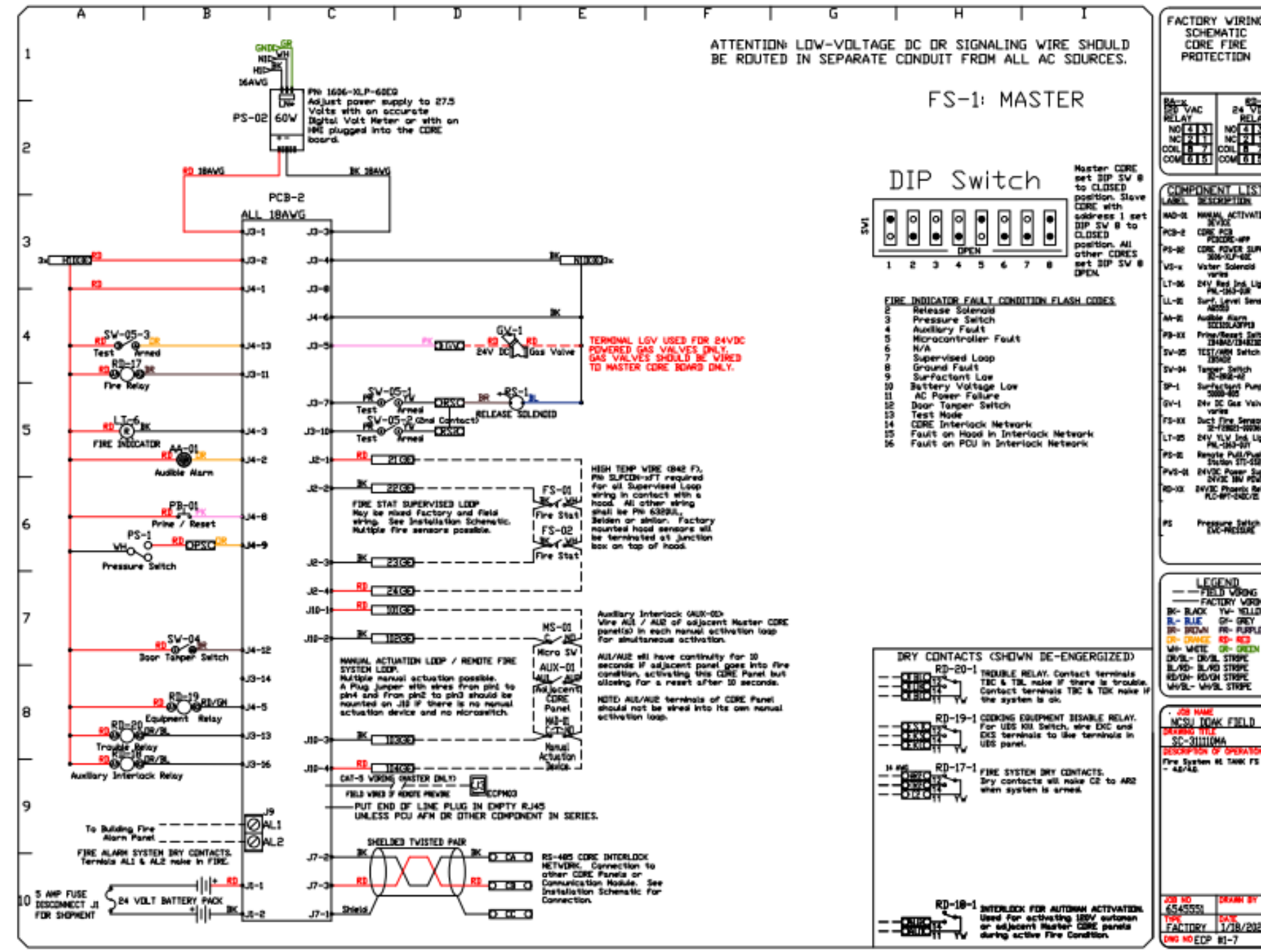
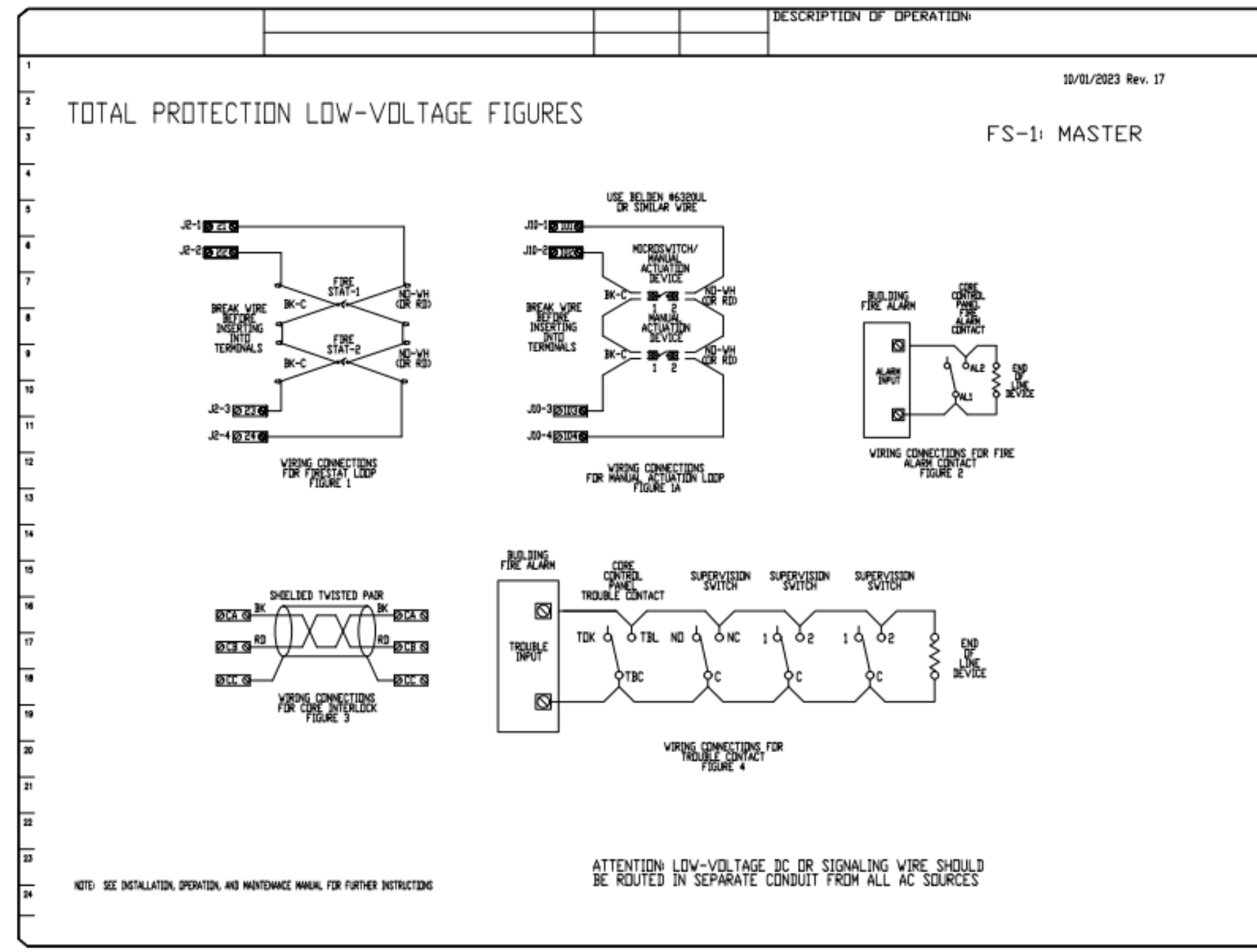


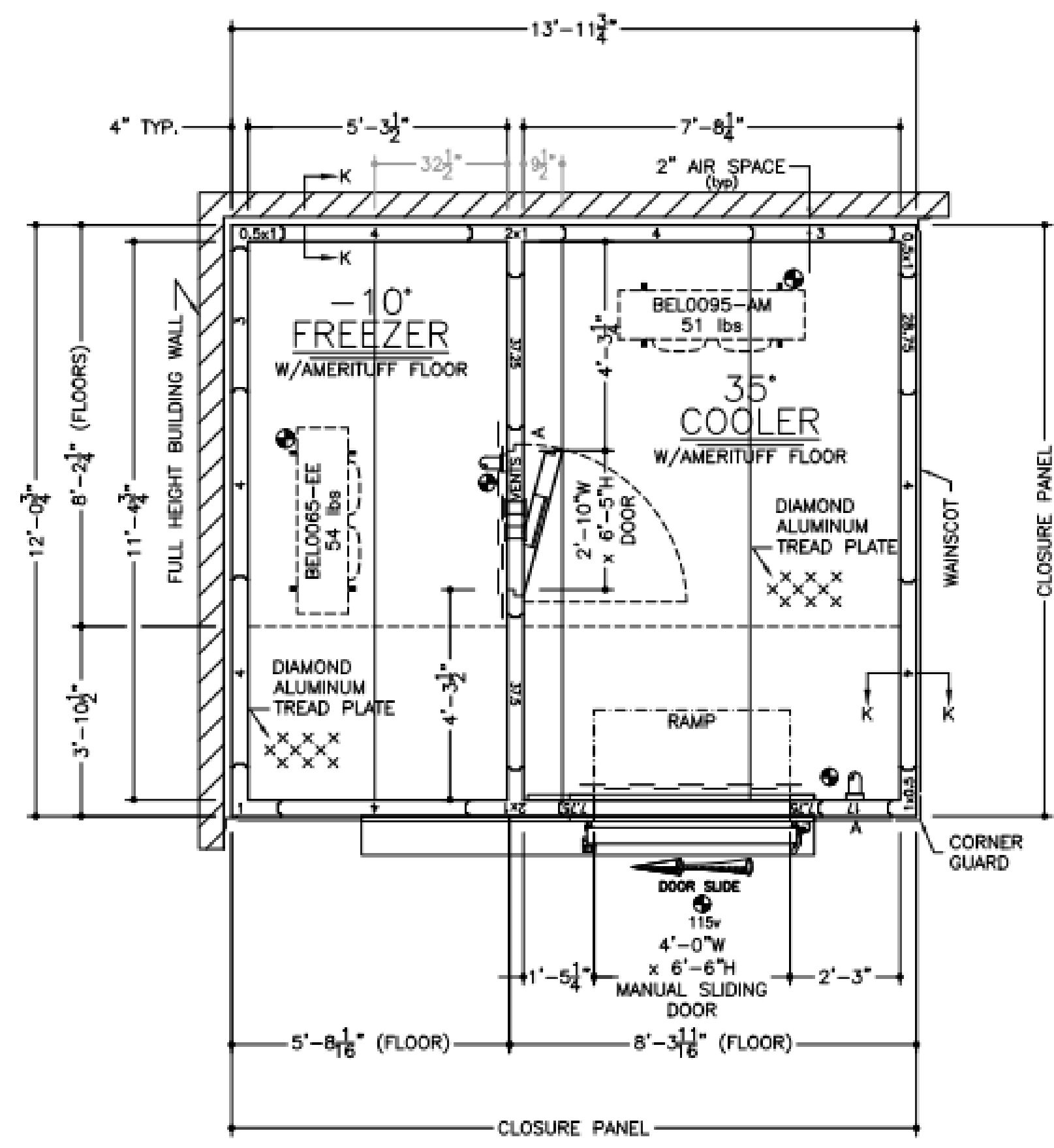
**SYSTEM DESIGN VERIFICATION (SDV)**

IF ORDERED, CAS SERVICE WILL PERFORM A SYSTEM DESIGN VERIFICATION (SDV) ONCE ALL EQUIPMENT HAS HAD A COMPLETE START UP PER THE OPERATION AND INSTALLATION MANUAL. TYPICALLY, THE SDV WILL BE PERFORMED AFTER ALL INSPECTIONS ARE COMPLETE.

ANY FIELD RELATED DISCREPANCIES THAT ARE DISCOVERED DURING THE SDV WILL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR AND CORRESPONDING TRADES ON SITE. THESE ISSUES WILL BE DOCUMENTED AND FORWARDED TO THE APPROPRIATE SALES OFFICE. IF CAS SERVICE HAS TO RESOLVE A DISCREPANCY THAT IS A FIELD ISSUE, THE GENERAL CONTRACTOR WILL BE NOTIFIED AND BILLED FOR THE WORK. SHOULD A RETURN TRIP BE REQUIRED DUE TO ANY FIELD RELATED DISCREPANCY THAT CANNOT BE RESOLVED DURING THE SDV, THERE WILL BE ADDITIONAL TRIP CHARGES.

DURING THE SDV, CAS SERVICE WILL ADDRESS ANY DISCREPANCY THAT IS THE FAULT OF THE MANUFACTURER. SHOULD A RETURN TRIP BE REQUIRED, THE GENERAL CONTRACTOR AND APPROPRIATE SALES OFFICE WILL BE NOTIFIED. THERE WILL BE NO ADDITIONAL CHARGES FOR MANUFACTURER DISCREPANCIES.





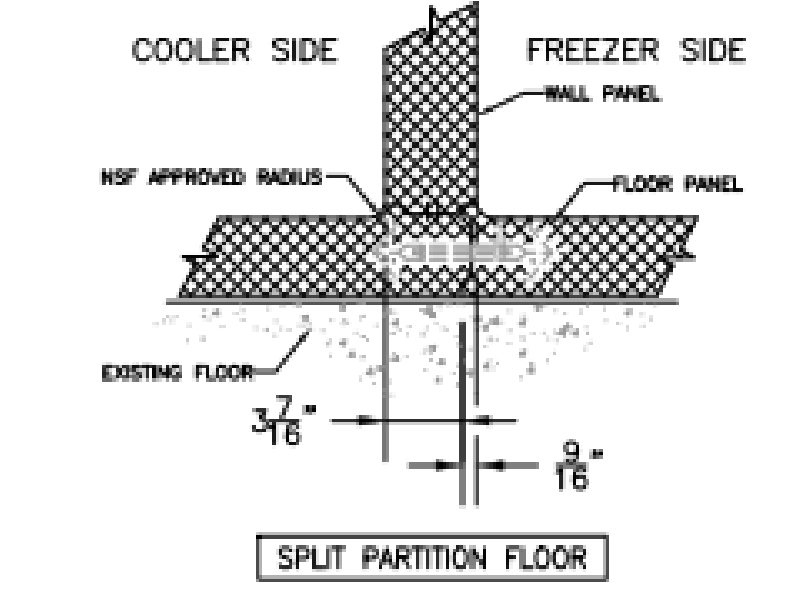
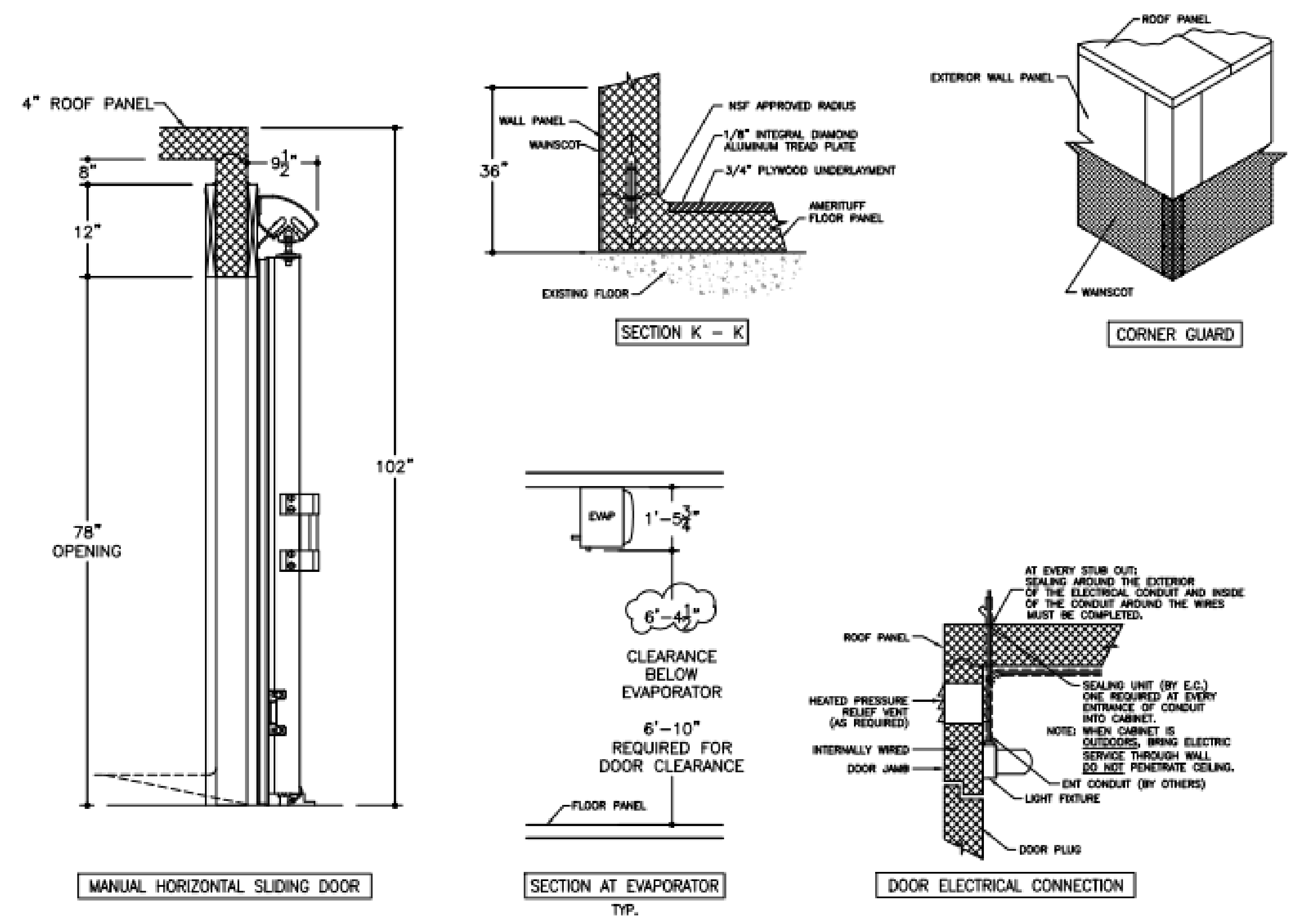
American Panel's walk-in floor panels with Amerituff structural support are designed to withstand uniformly distributed stationary loads of 15,000 lbs. per square foot. American Panel's warranty does not cover damage caused by pallet jacks, forklifts or any other form of heavy-duty rolling traffic. A concrete wearing floor must be installed on top of the Amerituff walk-in floor panels for those rolling applications.

INSULATION R-VALUES		
PANEL TYPE	COOLER	FREEZER
4" WALLS, ROOFS	R-29	R-32
5" FLOORS, ROOFS	R-36	R-40
FLOORS	R-25	R-28
DOORS	R-32	

FREEZER	
DOOR FRAME KWH/DAY	1,584
CONDENSING UNIT AMEF VALUE	3.12
EVAP AMEF VALUE	4.0

SLIDING COOLER DOOR	
DOOR FRAME KWH/DAY	2.15
CONDENSING UNIT AMEF VALUE	7.6
EVAP AMEF VALUE	9.0



WALK-IN PANEL			
BOARDING/UNIT	#/SQ FT	WGT	TYPE
<b>USA</b>			
SUBJECT BUILDING CHARACTERISTICS			
NATURAL DRYWALL	FLAME SPREAD	"SMOKE DEVELOPED"	
ALUMINUM PANEL (PARTIAL UNFINISHED) ON INS.	15	300	
PAINTED OR UNPAINTED, "C" VALUE	10	400 TO 100	
GLASS (PARTIAL) 6" THICK	20	250	

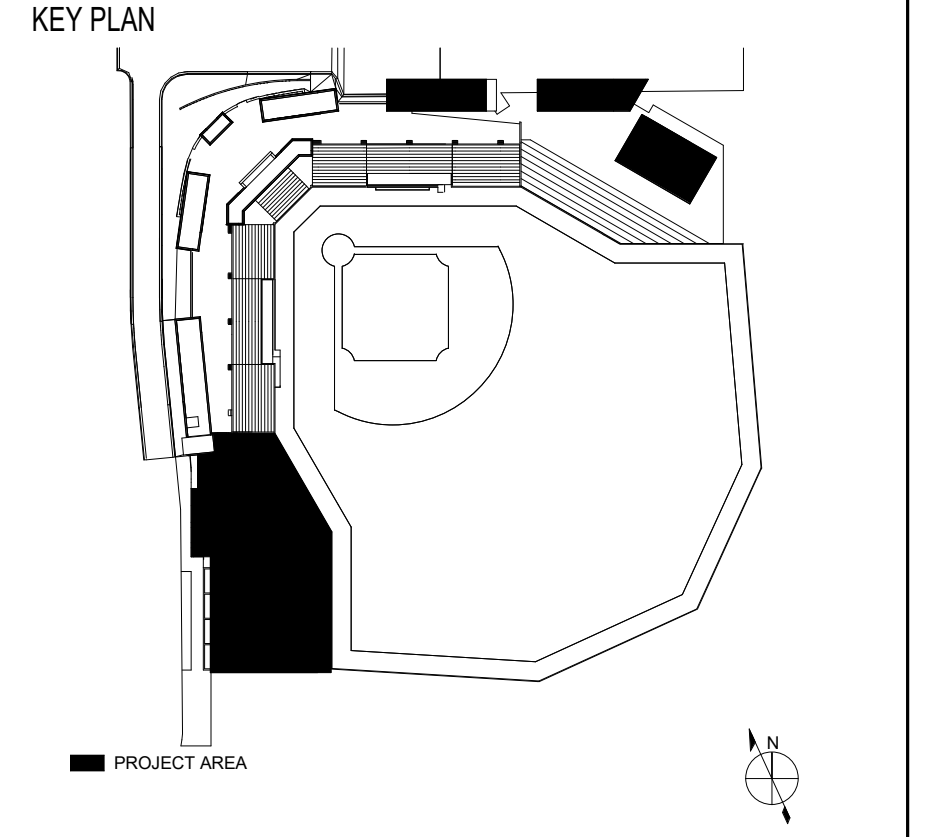
AMERICAN PANEL WALK-IN COOLERS AND FREEZERS COMPLY WITH THE 2021 INTERNATIONAL ENERGY CONSERVATION CODE (IECC), SECTION C403.1.1

THIS AMERICAN PANEL WALK-IN WILL BE MANUFACTURED TO UL & NSF REQUIREMENTS. AMERICAN PANEL ACCEPTS NO LIABILITY FOR LOCAL CODE REQUIREMENTS OF WHICH AMERICAN PANEL HAS NOT BEEN MADE AWARE OF IN WRITING PRIOR TO FABRICATION.

- SPECIFICATIONS-**
- BOX HEIGHT: FREEZER - 8'-6" OVERALL (7'-10 1/4" INTERIOR)  
COOLER - 8'-6" OVERALL (7'-10 1/4" INTERIOR)
- CONSTRUCTION: FOAMED IN PLACE  
NSF LISTED, STANDARD NO. 7
- INSULATION: 4" URETHANE, FINISHED PANEL  
UL CLASSIFIED FLAME SPREAD 20  
CORE SMOKE DEVELOPED 250
- INSTALLATION: INDOOR
- FLOOR: (SEE DETAILS)  
FREEZER - AMERITUFF STRUCTURAL FLOOR  
COOLER - AMERITUFF STRUCTURAL FLOOR W/INTERIOR RAMP  
DIAMOND ALUMINUM TREAD PLATE, 1/8" AC PLYWOOD UNDERLAYER, FIBERGLASS GRATING SUPPORT
- DOOR HARDWARE & ACCESSORIES: DEADBOLT HANDLE W/KEYED CYLINDER LOCK, PADLOCK  
PROVISION & QUARTER TURN INSE RELEASE  
FRAME HEATER W/SE  
HYDRAULIC DOOR CLOSER  
K-4 WALK-IN DOOR CONTROLLER AND ALARM SYSTEM INCLUDING:  
INTEGRATED LIGHT SWITCH WITH AUTOMATIC LIGHT OFF AND 3-WAY & 4-WAY CAPABILITY  
TEMPERATURE MONITOR AND LOGGER WITH HIGH TEMP. AND LOW TEMP. VISUAL AND AUDIO ALARM  
F OR C TEMPERATURE SELECTION  
INTEGRATED DRY CONTACT FOR ALARM SIGNALING & POWER FAILURE (1A @ 24VAC, 1A @ 30VDC)  
DOOR AND WINDOW HEATER CONTROL (WHEN SO EQUIPPED)  
HACCP PREVIEW VIA ONWARD LCD SCREEN  
HACCP DOWNLOAD VIA USB  
WIFI CONNECTIVITY (INTERNET ENABLED WIFI NETWORK NEEDED)  
BATTERY BACKUP  
TEMPERATURE ALARM NOTIFICATION VIA EMAIL &/OR EMAIL TO SMS TEXT MESSAGES  
POWER FAILURE NOTIFICATION VIA EMAIL &/OR EMAIL TO SMS TEXT MESSAGES  
(FOR THIS FEATURE TO WORK THE LOCAL WIFI NETWORK MUST BE POWER PROTECTED AND WORKING AT THE TIME OF POWER FAILURE EVENT)  
AUTOMATIC AND ON DEMAND TRANSMISSION OF HACCP DATA VIA EMAIL  
ADAPTIVE SETTINGS:  
25' AIR TEMPERATURE PROBE  
DOOR SWITCH TO ENABLE DOOR ALARM, DOOR ALARM NOTIFICATION VIA EMAIL &/OR EMAIL TO SMS TEXT MESSAGES, AND AUTOMATIC LIGHTS ON WHEN DOOR OPENS  
PANIC ALARM WITH ILLUMINATED PANIC BUTTON, ALARM BUZZER WITH LED  
& NOTIFICATION VIA EMAIL &/OR EMAIL TO SMS TEXT MESSAGES  
KASON SCREEN-IN W/PROOF LIGHT FEATURE  
W/8.5 WATT SYLVANIA LED BULB & GLOBE  
STRIP CURTAIN  
3 - SPRING LOADED CAM RISE HINGES  
HEATED VISION WINDOW (14" x 14")  
1/10" DIAMOND ALUMINUM TREAD PLATE KICKPLATES @ 36" HIGH 1/5 & 0/5  
2 - JASON #1827 PRESSURE RELIEF VENTS
- SPECIAL DOOR: 1 - 4'-0" W x 6'-0" FRANK COOLER MANUAL SLIDING DOOR W/  
1/10" DIAMOND ALUMINUM TREAD PLATE KICKPLATES @ 36" HIGH 1/5 & 0/5 DOOR  
& HEATED VISION WINDOW (14" x 14")
- PANEL MOUNTED ACCESSORIES: 1 - IC-4 WALK-IN DOOR CONTROLLER AND ALARM SYSTEM:  
INTEGRATED LIGHT SWITCH WITH AUTOMATIC LIGHT OFF AND 3-WAY & 4-WAY CAPABILITY  
TEMPERATURE MONITOR AND LOGGER WITH HIGH TEMP. AND LOW TEMP. VISUAL AND AUDIO ALARM  
F OR C TEMPERATURE SELECTION  
INTEGRATED DRY CONTACT FOR ALARM SIGNALING & POWER FAILURE (1A @ 24VAC, 1A @ 30VDC)  
DOOR AND WINDOW HEATER CONTROL (WHEN SO EQUIPPED)  
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(FOR THIS FEATURE TO WORK THE LOCAL WIFI NETWORK MUST BE POWER PROTECTED AND WORKING AT THE TIME OF POWER FAILURE EVENT)  
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ADAPTIVE SETTINGS:  
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PANIC ALARM WITH ILLUMINATED PANIC BUTTON, ALARM BUZZER WITH LED  
& NOTIFICATION VIA EMAIL &/OR EMAIL TO SMS TEXT MESSAGES  
KASON SCREEN-IN W/PROOF LIGHT FEATURE  
W/8.5 WATT SYLVANIA LED BULB & GLOBE
- ACCESSORIES: 2 - PCS. TRIM ANGLE  
CLOSURE PANEL TO AN EXISTING CEILING (PER PLAN)  
5 - 48" (1810LC) LED LIGHT FIXTURE(S) @ 40W EACH  
1/10" DIAMOND ALUMINUM TREAD PLATE W/ANSICOT @ 36" HIGH (EXPOSED EXTERIOR ONLY)  
STRIP CURTAIN (FOR SLIDING DOOR)
- METAL FINISHES: INTERIOR WALLS - 28 GA STUCCO ACRYLUME  
EXPOSED EXTERIOR - 28 GA STUCCO ACRYLUME  
UNEXPOSED EXTERIOR - 28 GA STUCCO ACRYLUME  
EXTERIOR FLOOR & CEILING - 28 GA STUCCO ACRYLUME  
INTERIOR FLOOR - AMERITUFF STRUCTURAL FLOOR  
(1/8" INTERNAL DIAMOND ALUMINUM TREAD PLATE,  
1/4" AC PLYWOOD UNDERLAYER, FIBERGLASS GRATING SUPPORT)
- REFRIGERATION: ULL LISTED, AIR COOLED, OUTDOORS
- FREEZER: CONDENSING UNIT: 1 - STD. PRE-ASSEMBLED REMOTE - HERMETIC SCROLL  
1.75 HP MODEL NO. FRAL-1172-11C-015 (R-448A)  
EVAPORATOR: 1 - MODEL NO. BELDOR9565W W/E.C. MOTORS & U.R.C.
- COOLER: CONDENSING UNIT: 1 - STD. PRE-ASSEMBLED REMOTE - HERMETIC SCROLL  
1.25 HP MODEL NO. FRAL-1122-11C-015 (R-448A)  
EVAPORATOR: 1 - MODEL NO. BELDOR9565W W/E.C. MOTORS & U.R.C.
- REFRIGERATION ACCESSORIES: 2 - WINTERIZATION CONTROLS/ASA  
2 - ULL LISTED COMPRESSOR CONTROLS (WINGED)  
2 - STAND(S) FOR ULL COVER (18" HIGH)
- NOTE: THE LARGEST DOOR PANEL ON THIS JOB IS 63.5" x 94".  
NOTE: THE LARGEST ROOF PANEL ON THIS JOB IS 48" x 144.75".  
CUSTOMER IS TO VERIFY THAT THIS PANEL SIZE WILL NOT CONFLICT WITH ANY JOB SITE RESTRICTIONS.  
NOTE: CUSTOMER IS TO VERIFY ALL DIMENSIONS, SECTIONS, DETAILS AND SPECIFICATIONS.
- NOTE: MAXIMUM LIGHT CIRCUIT LOAD IS 1200W 120VAC TUNGSTEN 5A 120VAC ELECTRIC BALLAST FOR HIGHER LOADS ADDITIONAL LIGHT FIXTURES MUST BE CONTROLLED VIA RELAY (BY OTHERS).
- ELECTRICAL DATA  
= POINT OF ELECTRICAL CONNECTIONS.
- FREEZER: CONDENSING UNIT: 208-230V/60/3P 9.7/12.1/15.0 (RLA/MCA/MOP)  
EVAPORATOR: 208-230V/60/1P 1.2/3.5 AMPS
- COOLER: CONDENSING UNIT: 208-230V/60/3P 6.4/8.4/15.0 (RLA/MCA/MOP)  
EVAPORATOR: 208-230V/60/1P 1.1 AMPS  
SLIDING DOOR HEATED WINDOW: 115V/60/1P 1.0 AMPS  
WALK-IN DOORS: 115V/1P - 350W\*  
PANEL MOUNTED ACC: 115V/1P - 195W\*  
PANEL MOUNTED VENT: 115V/1P - 23W\*(EACH VENT)
- \*NOTE: ADD WATTAGE FOR EACH ADDITIONAL LIGHT FIXTURE IN ACCESSORIES.



SCO PROJECT NO. 22-24384-01A  
NC STATE PROJ. NO. 202120015



APPROVED SIGNATURE \_\_\_\_\_  
 APPROVED AS NOTED PRINT NAME \_\_\_\_\_  
 REVISE & RESUBMIT DATE \_\_\_\_\_

- Please verify that door swing and location are correct.
- If this walk-in is to be installed in a depression, or quarry tile is to be applied to the interior, depression depths or tile thickness must be specified to insure proper door height.
- All site preparation, floor or slab construction, plumbing, electrical connections (including control wiring) by others.
- Electrical: 115-60-1 required above latch side of each door, through ceiling, to operate frame heater and light.
- Special note to General Contractor and his Sub Contractor for quarry tile or concrete wearing floors: the sheet metal panel facings may be susceptible to staining due to excessive moisture created by hydration of concrete type materials. Therefore, it is absolutely necessary that each room be properly ventilated. Also note that special precautions must be taken when using muriatic acid due to effects hydrochloric acid fumes have on aluminum and stainless steel.
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**American Panel** CORPORATION  
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CUSTOMER: VISION BUILDERS

PROJECT: NC STATE DOAK FIELD - RALEIGH, NC

DATE: 01/26/24 DRAWN BY: P.O.F.  
SCALE: 5/16"=1'-0" PROPOSAL: PD209849 JOB#: SHEET 1 of 1

REVISIONS

NO.	DESCRIPTION	DATE

NC STATE UNIVERSITY  
DOAK FIELD ENHANCEMENT  
1081 Varsity Dr  
Raleigh, NC 27606

DRAWN BY: TET DATE: 01/22/2024

PROJECT NO.: 20220400 SCALE:

DRAWING NAME: FOODSERVICE DETAILS - WALK-IN

FLOOR/SECTION PHASE: DRAWING NO.:

FD2 Q505