

## PACKAGE C - BID DOCUMENTS

1. REFER TO WORK ON FLOOR PLAN AND ENLARGED PLANS ARE INDICATED FOR GENERAL REFERENCE. ONLY FEATURES SHOWN ON FLOOR PLAN AND ENLARGED PLANS ARE INDICATED FOR GENERAL REFERENCE. ONLY FEATURES SHOWN ON FLOOR PLAN AND ENLARGED PLANS ARE INDICATED FOR GENERAL REFERENCE. ONLY FEATURES SHOWN ON FLOOR PLAN AND ENLARGED PLANS ARE INDICATED FOR GENERAL REFERENCE.

2. LOCATION AND DETAIL OF EQUIPMENT CONNECTIONS AND DEVICES ARE SCHEMATIC. COORDINATE INFORMATION AND EQUIPMENT DETAILS WITH THE CONTRACTOR PROVIDING THE EQUIPMENT AND WITH THE ARCHITECT. ADJUSTMENT OF INSTALLATION DETAILS TO COMPLY WITH CODES AND STANDARDS PRIOR TO DIVISION 26.

3. COORDINATE WITH DIVISION 26 CONTRACTOR TO ASSURE EACH DEVICE OR EQUIPMENT ITEM REQUIRING A FIELD CONNECTION IS INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFIED REQUIREMENTS OF THE NEC OR TO MANUFACTURER SPECIFIED REQUIREMENTS.

4. REFER TO ARCHITECTURAL DRAWINGS FOR FLOOR, WALL, AND CEILING TYPES AND FOR EXACT LOCATION OF EACH DEVICE OR EQUIPMENT ITEM. EXACT LOCATION OF EACH DEVICE OR EQUIPMENT ITEM SHALL BE IN ACCORDANCE WITH THE EXACT LOCATIONS OF WORK INDICATED ON THESE DRAWINGS TO SERVE WORK BY OTHER TRADES THAN OTHER TRADES PRIOR TO ROUGH-IN, WHERE ADJUSTMENTS TO LOCATIONS OF WORK ARE MADE AS A RESULT OF THE NEED TO CORRECT OR ADJUST THE LOCATION OF WORK BY OTHER TRADES PRIOR TO ROUGH-IN. GENERAL PATTERN AND SPACING OF RELOCATED WORK, E.G. SPEAKERS, WIRELESS ACCESS POINTS, CAMERAS, ETC.

5. PROVIDE THE APPROVED RATED ENCLOSURE FOR EXTERIOR WULFORD EQUIPMENT AND DEVICES SUCH AS WIRELESS ACCESS POINTS, MONITORS, SPEAKERS, CREDENTIAL READERS, PHONES, CAMERAS, ETC., UNLESS NOTED OTHERWISE.

6. ENCLOSURES SHALL MEET ALL REQUIREMENTS FOR THE ENVIRONMENT OF INSTALLATION.

7. PRIOR TO ORDERING AND PURCHASING MATERIALS, CONTRACTOR SHALL VERIFY AS CORRECT: AMPERAGE AND VOLTAGE INPUT REQUIRED BY EQUIPMENT IS SUPPORTED BY PROJECT POWER SUPPLY; THAT THE LOCATION OF EACH DEVICE OR EQUIPMENT ITEM IS IN ACCORDANCE WITH THE LOCATION OF EACH DEVICE OR EQUIPMENT ITEM AS SHOWN ON THE DRAWINGS; THAT THE LOCATION OF EACH DEVICE OR EQUIPMENT ITEM IS IN ACCORDANCE WITH THE LOCATION OF EACH DEVICE OR EQUIPMENT ITEM AS SHOWN ON THE DRAWINGS; THAT THE LOCATION OF EACH DEVICE OR EQUIPMENT ITEM IS IN ACCORDANCE WITH THE LOCATION OF EACH DEVICE OR EQUIPMENT ITEM AS SHOWN ON THE DRAWINGS.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF EACH DEVICE OR EQUIPMENT ITEM AS SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL OBTAIN AND VERIFY EXACT LOCATIONS, MEASUREMENTS, LEVELS, SPACE REQUIREMENTS, POTENTIAL CONFLICTS WITH OTHER TRADES ETC. AT THE LOCATION OF EACH DEVICE OR EQUIPMENT ITEM. THE CONTRACTOR SHALL OBTAIN AND VERIFY EXACT LOCATIONS, MEASUREMENTS, LEVELS, SPACE REQUIREMENTS, POTENTIAL CONFLICTS WITH OTHER TRADES ETC. AT THE LOCATION OF EACH DEVICE OR EQUIPMENT ITEM. THE CONTRACTOR SHALL OBTAIN AND VERIFY EXACT LOCATIONS, MEASUREMENTS, LEVELS, SPACE REQUIREMENTS, POTENTIAL CONFLICTS WITH OTHER TRADES ETC. AT THE LOCATION OF EACH DEVICE OR EQUIPMENT ITEM.

9. THE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND SHALL NOT BE SCALED. ANY EXISTING CONDITIONS THAT VERIFY DO NOT RELIEVE ANY CONTRACTOR FROM COORDINATING THE WORK OF OTHER TRADES AND/OR ADJUSTING THE WORK AS REQUIRED BY THE ACTUAL CONDITIONS OF THE PROJECT.

10. CABLE TRAY SYSTEM IS INTENDED TO CARRY TELEPHONE, DATA AND LOW VOLTAGE COMMUNICATIONS CABLES. CABLE TRAY SYSTEM IS NOT TO BE USED FOR HIGH VOLTAGE, AREA OF REFUGE, AND SECURITY CABLES. CABLE TRAY SHALL NOT BE PERMITTED IN THE CABLE TRAY SYSTEMS.

NOTE: SYMBOLS INDICATED HERE AND NOT USED IN THE CONTRACT DOCUMENTS DO NOT APPLY TO THIS PROJECT. ADDITIONAL SYMBOLS MAY BE INDICATED IN THE CONTRACT DOCUMENTS. UNLESS OTHERWISE NOTED, DIMENSIONS LISTED ARE MEASURED FROM FINISHED FLOOR TO CENTERLINE.

NOTES:

1. ALL CONDUIT AND BACK BOX SIZES LISTED ARE MINIMUMS. CONTRACTOR SHALL SIZE ALL CONDUITS AND BACK BOXES PER APPLICABLE CODES, STANDARDS, GUIDELINES, AND CABLE AND CONNECTIVITY MANUFACTURER'S RECOMMENDATIONS AND PROVIDE LARGER CONDUITS AND/OR BACK BOXES WHERE NECESSARY.
2. UNLESS NOTED OTHERWISE, ROUTE ALL CONDUITS TO NON-CONTINUOUS CABLE PATHWAY OR CABLE TRAY ABOVE NEAREST ACCESSIBLE CEILING. TERMINATE ALL CONDUITS ORIENTED HORIZONTALLY AT THE HEIGHT OF THE ASSOCIATED NON-CONTINUOUS CABLE PATHWAY OR CABLE TRAY.
3. REFER TO SPECIFICATIONS FOR PATCH CABLE INFORMATION AND REQUIREMENTS.
4. PROVIDE 12" SPARE CABLE AT EACH WORKSTATION AND 10' SPARE AT EACH TELECOM RACK.
5. VERIFY ALL BACKBOX, RING TYPE AND PATHWAY REQUIREMENTS WITH SYSTEM VENDOR PRIOR TO ROUGH-IN
6. COORDINATE ELEVATIONS AND HORIZONTAL ORIENTATION OF DEVICE WITH ARCHITECTURAL DRAWINGS AND ADJACENT TRADE DEVICES.
7. COORDINATE BACKBOX INSTALLATION AND RING DEPTH WITH ARCHITECTURAL WALL TYPE AND COVERING TO PROVIDE A FLUSH MOUNT INSTALLATION.
8. PROVIDE CONDUIT PATHWAY (WHERE NOTED) -WITH PULL STRING, FROM BACKBOX TO ACCESSIBLE CEILING SPACE, WITH CLEAR ACCESS TO PRIMARY TECHNOLOGY CABLING PATHWAY. TERMINATE ALL CONDUITS ORIENTED HORIZONTALLY AT THE HEIGHT OF THE ASSOCIATED CABLE PATHWAY OR CABLE TRAY. PROVIDE RATED PENETRATION WHERE PATHWAY PASSES THROUGH ANY RATEDWALL -RATING TO MATCH WALL TYPE
9. PROVIDE ACOUSTICAL OR FIRE-RATED SEALING AROUND BACKBOX AND CONDUIT PENETRATION AS REQUIRED TO MEET WALL RATING.
10. GROUND BACKBOX AND CONDUIT PER SYSTEM REQUIREMENTS -VERIFY GROUNDING REQUIREMENTS WITH SYSTEM VENDOR.
11. COORDINATE TWO-WAY COMMUNICATION SYSTEM CONNECTION AND CABLING TO MONITORING LOCATION FOR CODE REQUIRED SYSTEMS.
12. REFER TO AV DRAWINGS FOR INFRASTRUCTURE SIZE AND MOUNTING.

1. FURNISH AND INSTALL 1-PORT STAINLESS STEEL FACEPLATE WITH MOUNTING LUGS FOR OWNER-PROVIDED WALL-MOUNTED TELEPHONE. COORDINATE EXACT LOCATION ON SITE WITH WORK BY OTHER TRADES TO ENSURE A MINIMUM OF 8" CLEAR ABOVE, BELOW, AND ON BOTH SIDES OF FACEPLATE AT COMPLETION OF PROJECT.
2. PROVIDE SURFACE MOUNT BOX 12" ABOVE CEILING IN ACCESSIBLE CEILING AREAS AND PROVIDE FLUSH MOUNT IN HARD CEILING AREAS. INSTALL WITH 20-FOOT SERVICE LOOP AT LAST CABLE SUPPORT BEFORE TELECOMMUNICATIONS OUTLET TO FACILITATE FUTURE RELOCATION OF EQUIPMENT.
3. COORDINATE FINAL LOCATION OF OUTLET WITH SPECIALITY VENDOR (BMS, SECURITY, AV, LIGHTING CONTROL ETC.)
4. OUTLET AND BACKBOX SHARED WITH ELECTRICAL/AV/TELECOM SYSTEMS. COORDINATE WITH OTHER SYSTEM TRADES FOR PLACEMENT AND LOCATION
5. PROVIDE ADAPTOR FRAMES AND ACCESSORIES AS REQUIRED TO SUPPORT TERMINATION OF CABLE IN SHARED SERVICE FLOOR BOX OR WALL BOX.
6. PROVIDE DEDICATED CONDUIT FOR EACH SYSTEM TO ASSIGNED COMPARTMENT IN DEVICE BOX
7. FLOOR BOXES FOR SLAB ON GRADE LOCATIONS ONLY, POKE-THRU'S ON ALL ABOVE GRADE LOCATIONS
8. PROVIDE DATA CABLEING TO SECURITY DEVICE. COORDINATE PLACEMENT AND INTERFACE WITH DEVICE WITH SECURITY INTEGRATOR.
9. PROVIDE DATA OUTLET WITHIN AV ASSEMBLY BOX WHERE NECESSARY. REFER TO AV DRAWINGS FOR INFRASTRUCTURE REQUIREMENTS AND MOUNTING. COORDINATE WITH AV INTEGRATOR.
10. PROVIDE BISCUIT JACK WITHIN EACH CAMERA ENCLOSURE. SEE SECURITY DETAILS FOR ADDITIONAL INFRASTRUCTURE REQUIREMENTS.
11. CABLEING FOR SECURITY CAMERAS SHALL TERMINATE IN THE NEAREST SECURITY ROOM'S PATCH PANEL SYSTEM.



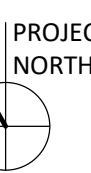
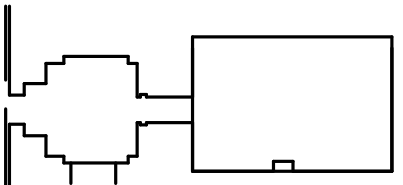


# RANDALL LIBRARY RENOVATION & EXPANSION

5162 RANDALL DRIVE  
WILMINGTON, NC  
SCO ID: 18-19656-02C  
LS3P PROJECT: 7202-197988

[illegible]

KEY PLAN:



**SHEET NAME:**

TECHNOLOGY SITE PLAN

**RIG SUBMISSION:** 2022.07.01

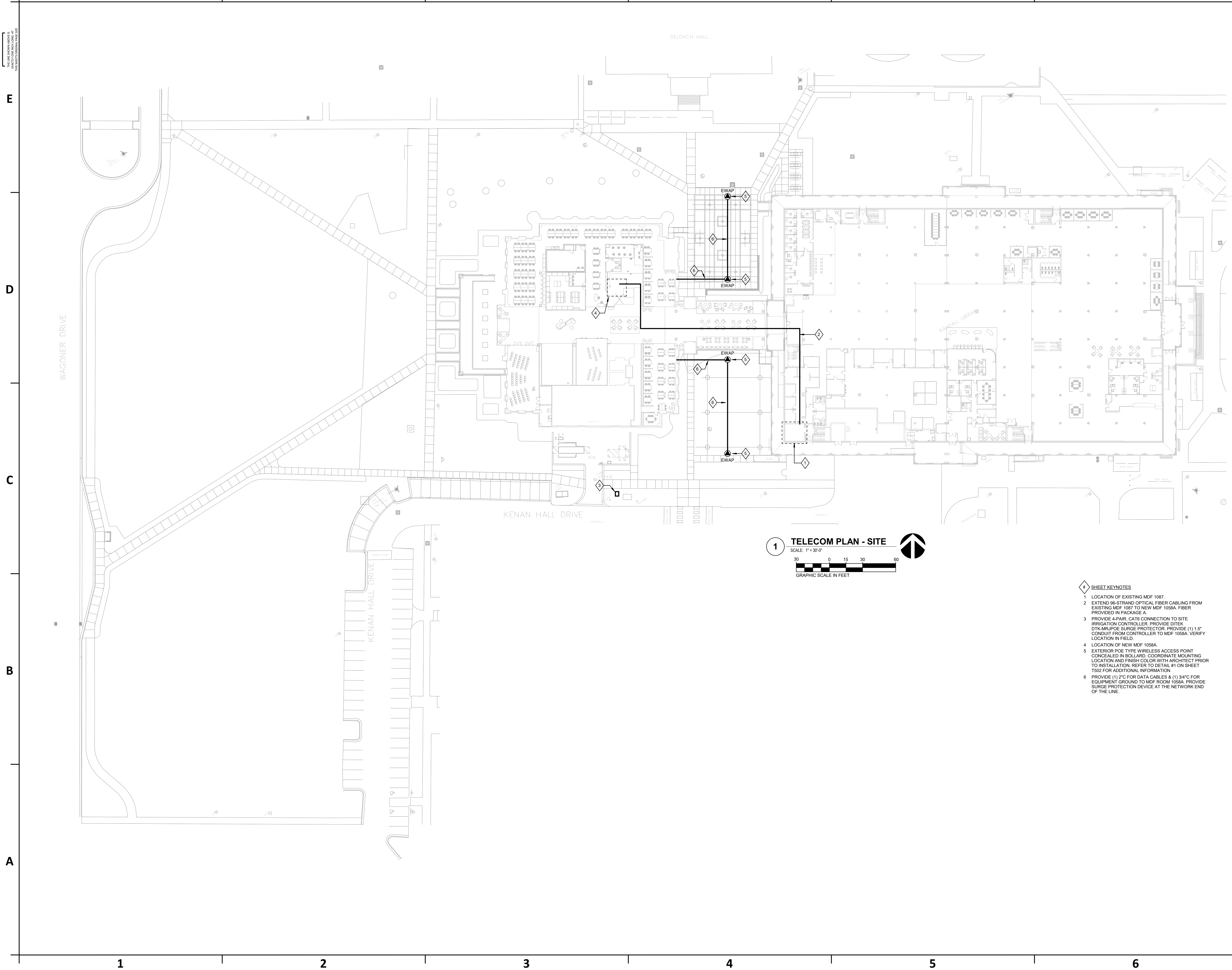
**CURRENT:** 2022.07.01

## PACKAGE C - BID DOCUMENTS

SHEET:

# T100

### PACKAGE C - BID DOCUMENTS

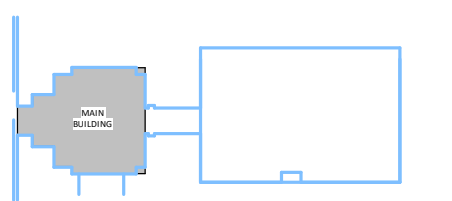


**RANDALL LIBRARY**  
**RENOVATION & EXPANSION**  
UNCW  
5162 RANDALL DRIVE  
WILMINGTON, NC  
SCO ID: 18-19656-02C  
LSP PROJECT: 7202-197980

SCO ID: 18-19656-02C  
LS3P PROJECT: 7202-197980

[illegible]

Y PLAN:



**SHEET NAME:**

TECHNOLOGY PLAN - LEVEL 1

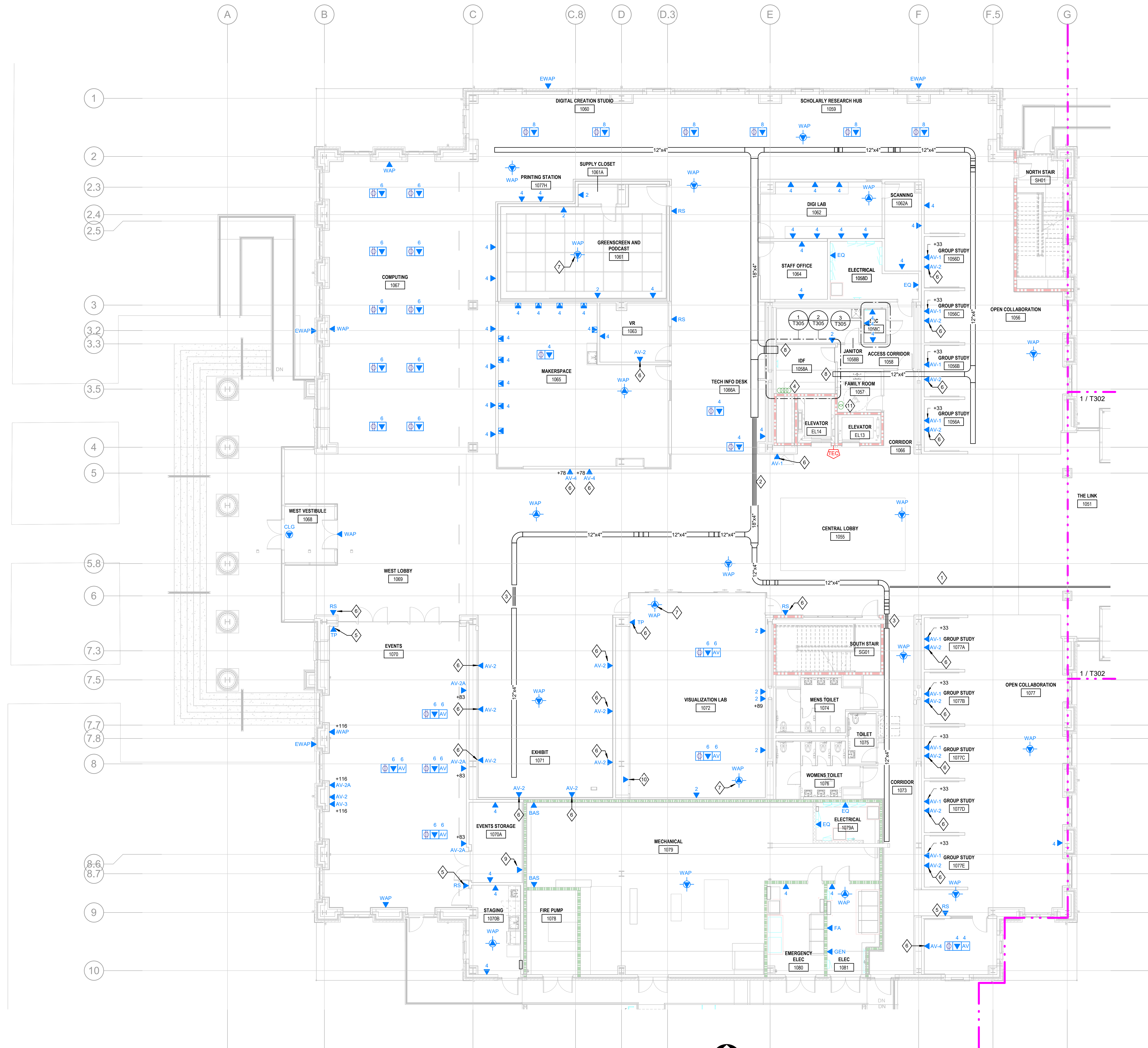
BIG SUBMISSION: 2022 07 01

**CURRENT:** 2022.07.01

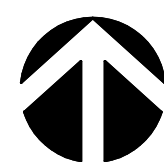
## PACKAGE C - BID DOCUMENTS

HEET:

# T201




**PACKAGE C - BID DOCUMENTS**

**1 TECHNOLOGY ENLARGED PLAN - LEVEL 1**  
SCALE: 1/8" = 1'-0" 8 0 4 8



GRAPHIC SCALE IN FEET

**LIFE SAFETY LEGEND**

-  NEW NON-RATED PARTITION  
 EXISTING WALL TO REMAIN  
 UNRATED SMOKE BARRIER TO DECK  
 1 HR. RATED BARRIER TO DECK  
 2 HR. RATED BARRIER TO DECK  
 3 HR. RATED FIRE WALL TO DECK

GENERAL NOTES:

1. REFER TO A DRAWINGS FOR EXACT HEIGHT AND LOCATION OF AV DEVICE.
2. VERIFY ALL BACKBOX, RING TYPE AND PATHWAY REQUIREMENTS WITH CONTRACTOR PRIOR TO ROUGH-IN.
3. COORDINATE BACKBOX INSTALLATION AND RING DEPTH WITH ARCHITECTURAL WALL TYPE AND COVERING TO PROVIDE A FLUSH MOUNT INSTALLATION.
4. PROVIDE CONDUIT PATHWAY WITH PULL STRING, FROM BACKBOX TO CABLE TRAY ABOVE ACCESSIBLE CEILING.
5. PROVIDE ACoustICAL OR FIRE RATED SEALING AROUND BACKBOX AND CONDUIT PENETRATION AS REQUIRED TO MEET WALL RATING.
6. GROUND BACKBOX AND CONDUIT PER SYSTEM REQUIREMENTS. VERIFY GROUNDING REQUIREMENTS WITH SYSTEM VENDOR.
7. ALL DEVICES ARE SERVED FROM IDF 1068A UNLESS NOTED OTHERWISE.

# SHEET KEYNOTES

- 1 (2) 4" C/D FROM IDF ROOM 1058A TO EXISTING MD 1058
- 2 IN RANDALL LIBRARY. INSTALL PULLBOXES AS
- 3 FOLLOWING: (1) FACILITY TO CONNECT CABLE AND
- 4 TO LIMIT NUMBER OF BENDS WITHIN CODE
- 5 REQUIREMENTS.
- 6 (4) 4" C/S SLEEVES TO CONNECT CABLE TO RAY
- 7 SYSTEMS.
- 8 (3) 4" C/S SLEEVES TO CONNECT CABLE TO RAY
- 9 SYSTEMS.
- 10 (4) C/D FROM LEVEL 1, EXTENDED TO LEVEL 3.
- 11 TERMINATE CABLE IN AND MOUNT DEVICE TO AV BOX
- 12 TYPE "R". REFER TO EAV DRAWINGS FOR FURTHER
- 13 INFO.
- 14 TERMINATE CABLE IN AND MOUNT DEVICE TO AV BOX
- 15 TYPE "T". REFER TO EAV DRAWINGS FOR FURTHER
- 16 INFO.
- 17 MOUNT OUTLET AND DEVICE TO STRUCTURE ABOVE.
- 18 HEIGHT NOT TO EXCEED 12' AFF.
- 19 TERMINATE CABLE IN AND C/D FROM LEVEL 3
- 20 WITH WATERPALL FITTING.
- 21 PROVIDE (2) CAT 6A DATA CONNECTIONS FOR
- 22 TERMINATION TO PATCHBAY WITHIN AV CABINET.
- 23 PROVIDE (12) CAT 6A DATA CONNECTIONS FOR
- 24 TERMINATION TO PATCHBAY WITHIN AV CABINET.
- 25 (2) 4" C/S SLEEVES TO CONNECT CABLE TO RAY
- 26 SYSTEMS.
- 27 MAINTAIN 2-HOUR RATING THROUGH SLAB.

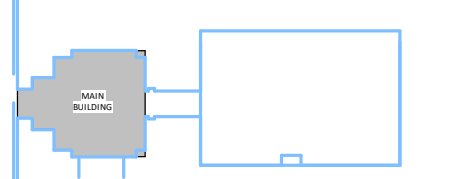


# RANDALL LIBRARY RENOVATION & EXPANSION

5162 RANDALL DRIVE  
WILMINGTON, NC  
SCO ID: 18-19656-02C  
LS3P PROJECT: 7202-197988

[illegible]

Y PLAN:



HEET NAME:

TECHNOLOGY PLAN - LEVEL 2

**ORIGINAL SUBMISSION:** 2022.07.01  
**CURRENT:** 2022.07.01

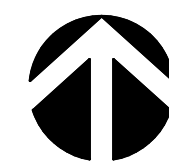
## PACKAGE C - BID DOCUMENTS

HEET:

# T202



**PACKAGE C - BID DOCUMENTS**

**1 TECHNOLOGY PLAN - LEVEL 2 - MAIN BUILDING**  
SCALE: 1/8" = 1'-0" 8 0 4 8 16



GRAPHIC SCALE IN FEET

### LIFE SAFETY LEGEND

-  NEW NON-RATED PARTITION  
 EXISTING WALL TO REMAIN  
 UNRATED SMOKE BARRIER TO DECK  
 1 HR. RATED BARRIER TO DECK  
 2 HR. RATED BARRIER TO DECK  
 3 HR. RATED FIRE WALL TO DECK

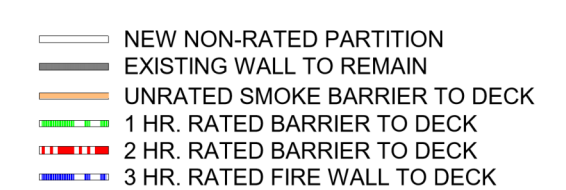


3162 RANDALL DRIVE  
WILMINGTON, NC  
SCO ID: 18-19656-02C  
LS3P PROJECT: 7202-19798

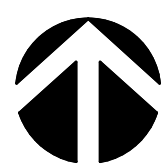
**KEY PLAN:**



## PACKAGE C - BID DOCUMENTS

**PACKAGE C - BID DOCUMENTS**

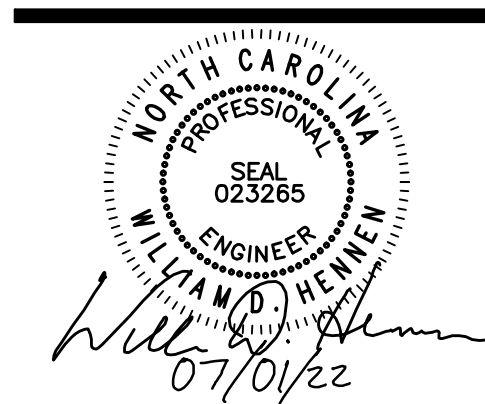
GRAPHIC SCALE IN FEET





A

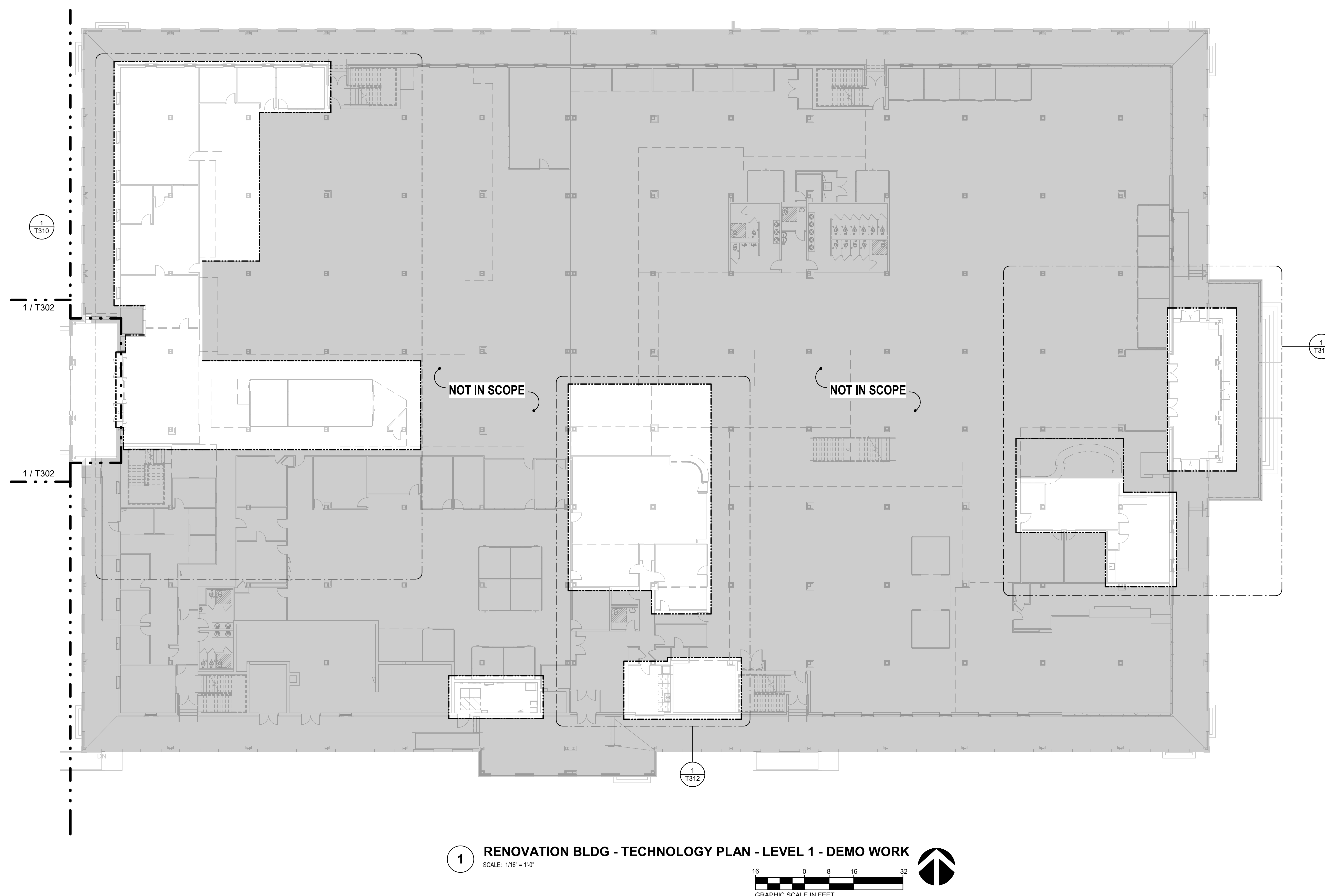
**PACKAGE C - BID DOCUMENTS**





UNCW  
5162 RANDALL DRIVE  
WILMINGTON, NC  
SCO ID: 18-19656-02C

[illegible]

### PACKAGE C - BID DOCUMENTS



**LIFE SAFETY LEGEND**

|   |                               |
|---|-------------------------------|
|  | NEW NON-RATED PARTITION       |
|  | EXISTING WALL TO REMAIN       |
|  | UNRATED SMOKE BARRIER TO DECK |
|  | 1 HR. RATED BARRIER TO DECK   |
|  | 2 HR. RATED BARRIER TO DECK   |
|  | 3 HR. RATED FIRE WALL TO DECK |

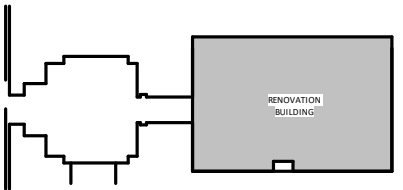


**KANDALL LIBRARY  
RENOVATION & EXPANSION  
UNCW**

5162 RANDALL DRIVE  
WILMINGTON, NC  
SCO ID: 18-19656-02C  
LS3P PROJECT: 7202-197988

[illegible]

PLAN:



**SHEET NAME:**

RENO - TECHNOLOGY PLAN -  
LEVEL 1 - OVERALL - NEW WORK

**ORIGINAL SUBMISSION: 2022.07.01**

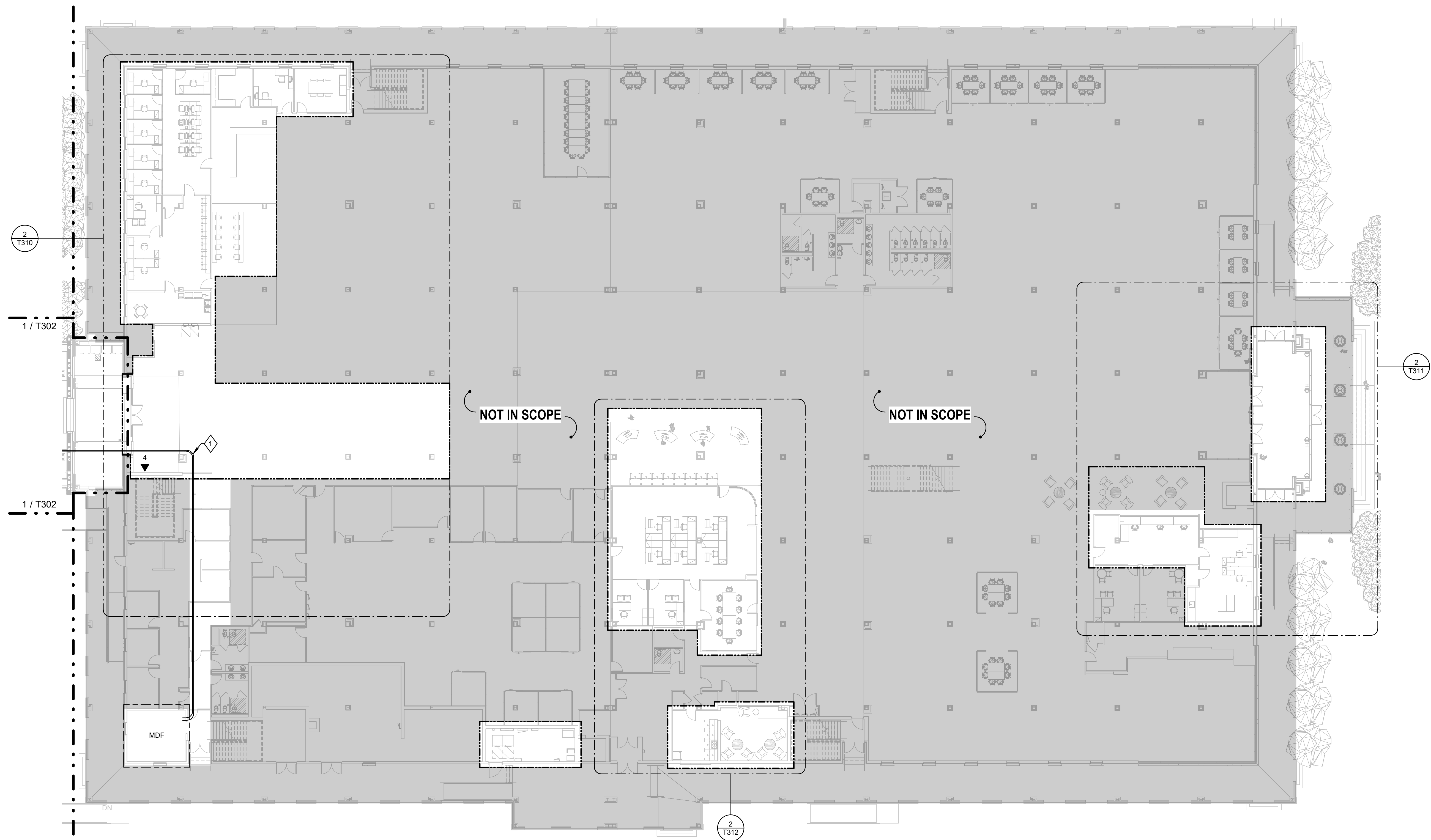
**CURRENT:** 2022.07.01

### PACKAGE C - BID DOCUMENTS

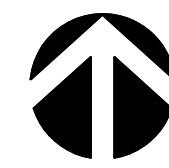
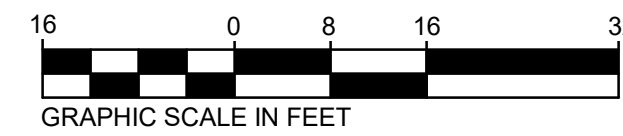
**SHEET:**

# T211



### PACKAGE C - BID DOCUMENTS



**1 RENOVATION BLDG - TECHNOLOGY PLAN - LEVEL 1 NEW WORK**  
SCALE: 1/16" = 1'-0"



**LIFE SAFETY LEGEND**

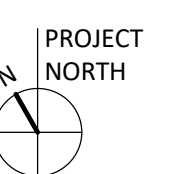
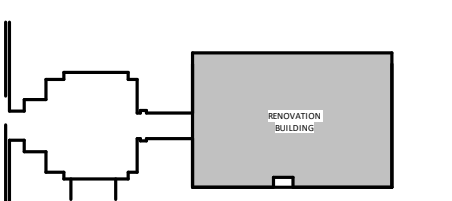
-  NEW NON-RATED PARTITION  
 EXISTING WALL TO REMAIN  
 UNRATED SMOKE BARRIER TO DECK  
 1 HR. RATED BARRIER TO DECK  
 2 HR. RATED BARRIER TO DECK  
 3 HR. RATED FIRE WALL TO DECK

**KANDALL LIBRARY  
RENOVATION & EXPANSION**  
UNCW

5162 RANDALL DRIVE  
WILMINGTON, NC  
SCO ID: 18-19656-02C  
LS3P PROJECT: 7202-19798

[illegible]

PLAN:



**SHEET NAME:**

RENO - TECHNOLOGY PLAN -  
LEVEL 2 - OVERALL - DEMO WORK

**ORIGINAL SUBMISSION:** 2023.07.01

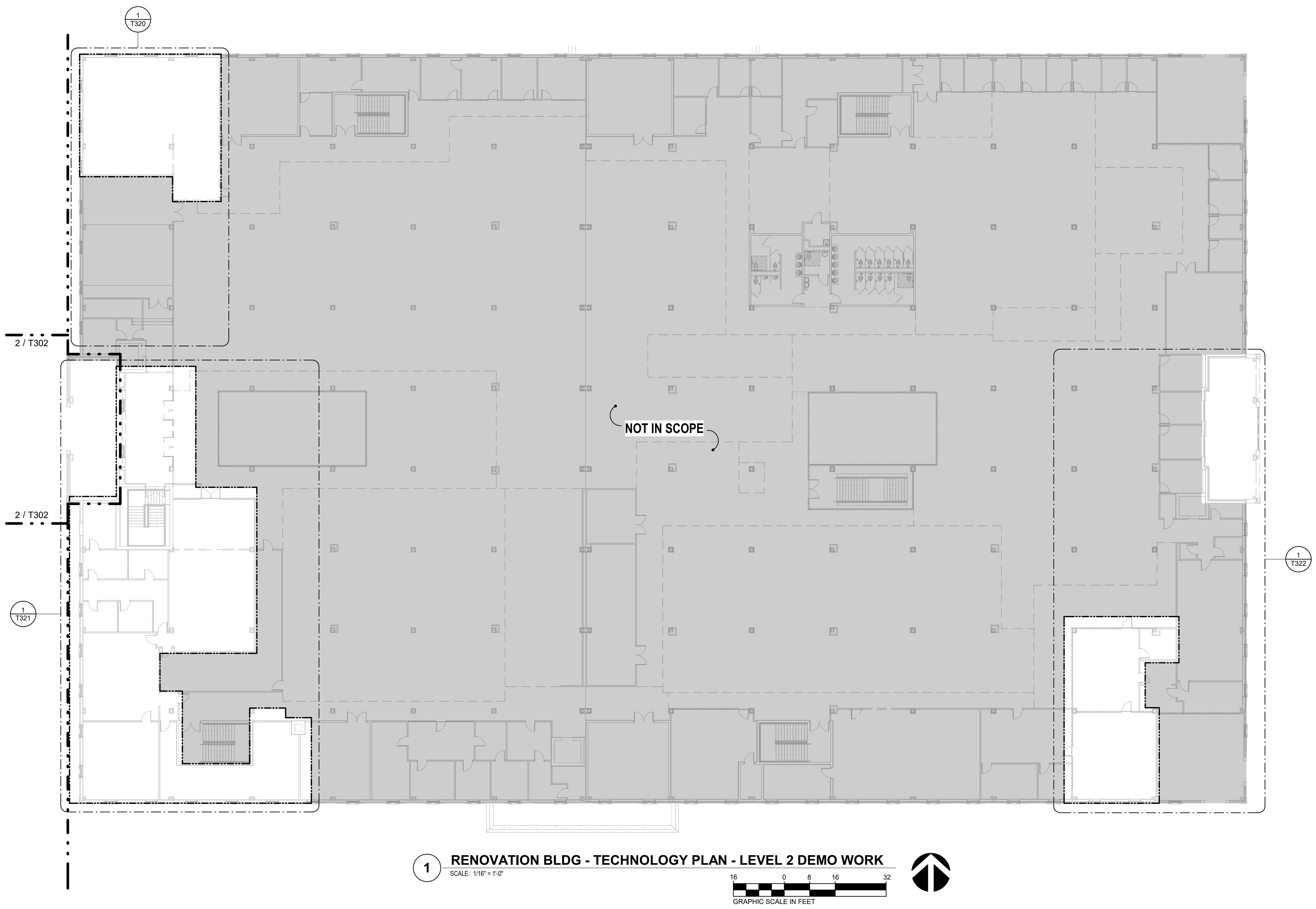
IRRENT: 2022.07.01

### PACKAGE C - BID DOCUMENTS



455 FT.

## T220

### PACKAGE C - BID DOCUMENTS



### LIFE SAFETY LEGEND

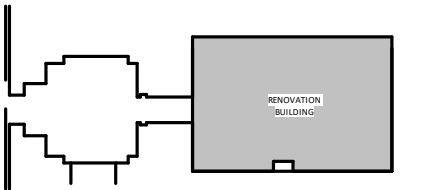
|   |                               |
|---|-------------------------------|
|  | NEW NON-RATED PARTITION       |
|  | EXISTING WALL TO REMAIN       |
|  | UNRATED SMOKE BARRIER TO DECK |
|  | 1 HR. RATED BARRIER TO DECK   |
|  | 2 HR. RATED BARRIER TO DECK   |
|  | 3 HR. RATED FIRE WALL TO DECK |

**KANDALL LIBRARY  
RENOVATION & EXPANSION  
UNCW**

5162 RANDALL DRIVE  
WILMINGTON, NC  
SCO ID: 18-19656-02C  
LS3P PROJECT: 7202-197988

[illegible]

PLAN:



**SHEET NAME:**

RENO - TECHNOLOGY PLAN -  
LEVEL 2 - OVERALL - NEW WORK

**ORIGINAL SUBMISSION: 2022.07.01**

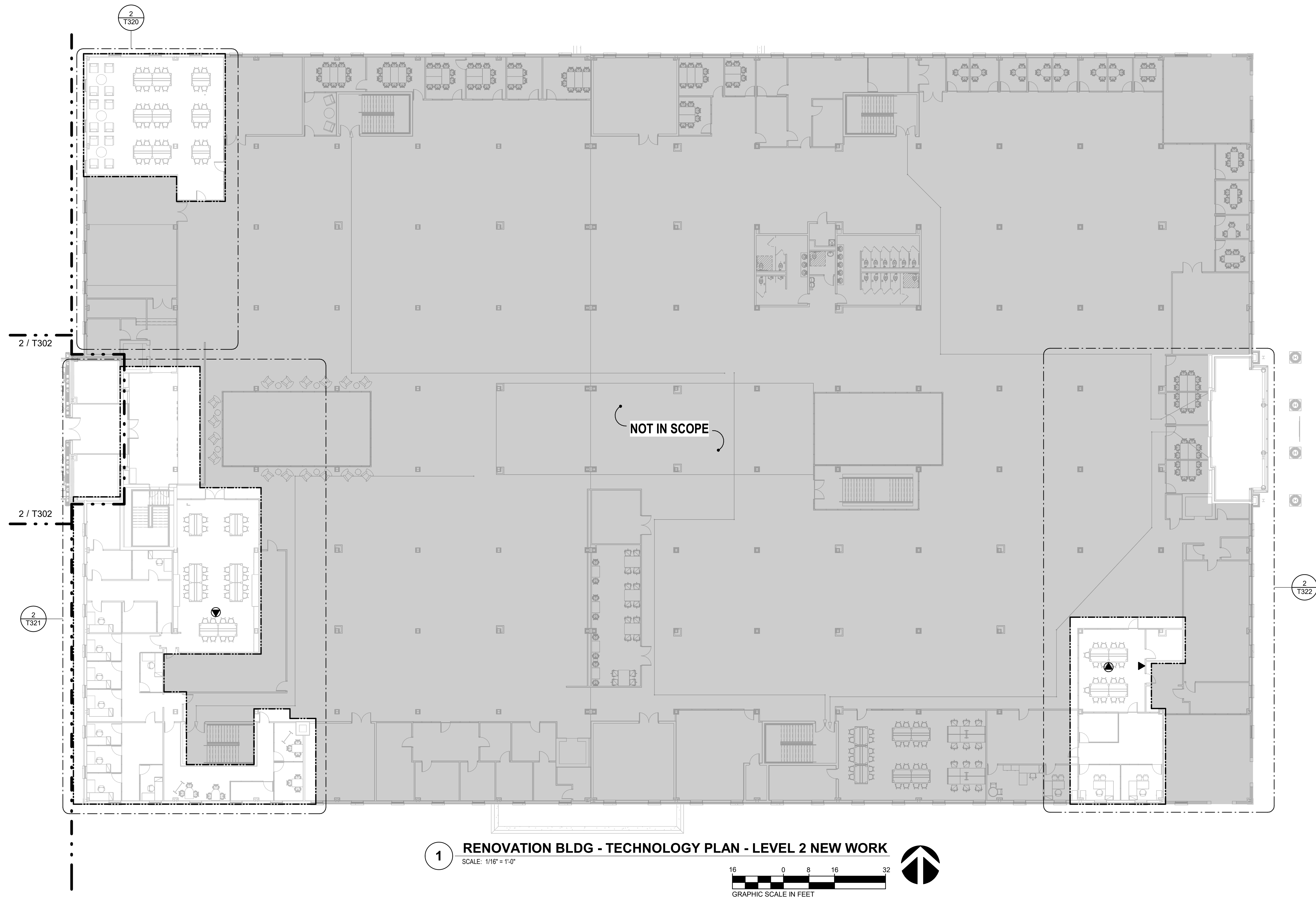
**CURRENT:** 2022.07.01

### PACKAGE C - BID DOCUMENTS



SHEET:

# T221

### PACKAGE C - BID DOCUMENTS



### LIFE SAFETY LEGEND

-  NEW NON-RATED PARTITION  
 EXISTING WALL TO REMAIN  
 UNRATED SMOKE BARRIER TO DECK  
 1 HR. RATED BARRIER TO DECK  
 2 HR. RATED BARRIER TO DECK  
 3 HR. RATED FIRE WALL TO DECK

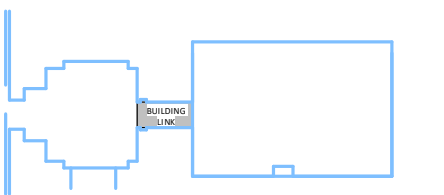


**KANDALL LIBRARY**  
**RENOVATION & EXPANSION**  
UNCW  
5162 RANDALL DRIVE  
WILMINGTON, NC  
SCO ID: 18-19656-02C  
LS3P PROJECT: 7202-197980

**RANDALL**  
**RENOVAT**  
**UNCW**  
5162 RANDALL DRIVE  
WILMINGTON, NC  
SCO ID: 18-19656-02C  
LS3P PROJECT: 7202-19798

[illegible]

PLAN:



**SHEET NAME:**

## TECHNOLOGY PLAN - LEVEL 1 & 2

### BUILDING LINK

**RIG SUBMISSION: 2022.07.01**

**CURRENT:** 2022.07.01

## PACKAGE C - BID DOCUMENTS

SHEET:

# Г302

**PACKAGE C - BID DOCUMENTS**



GENERAL NOTES:

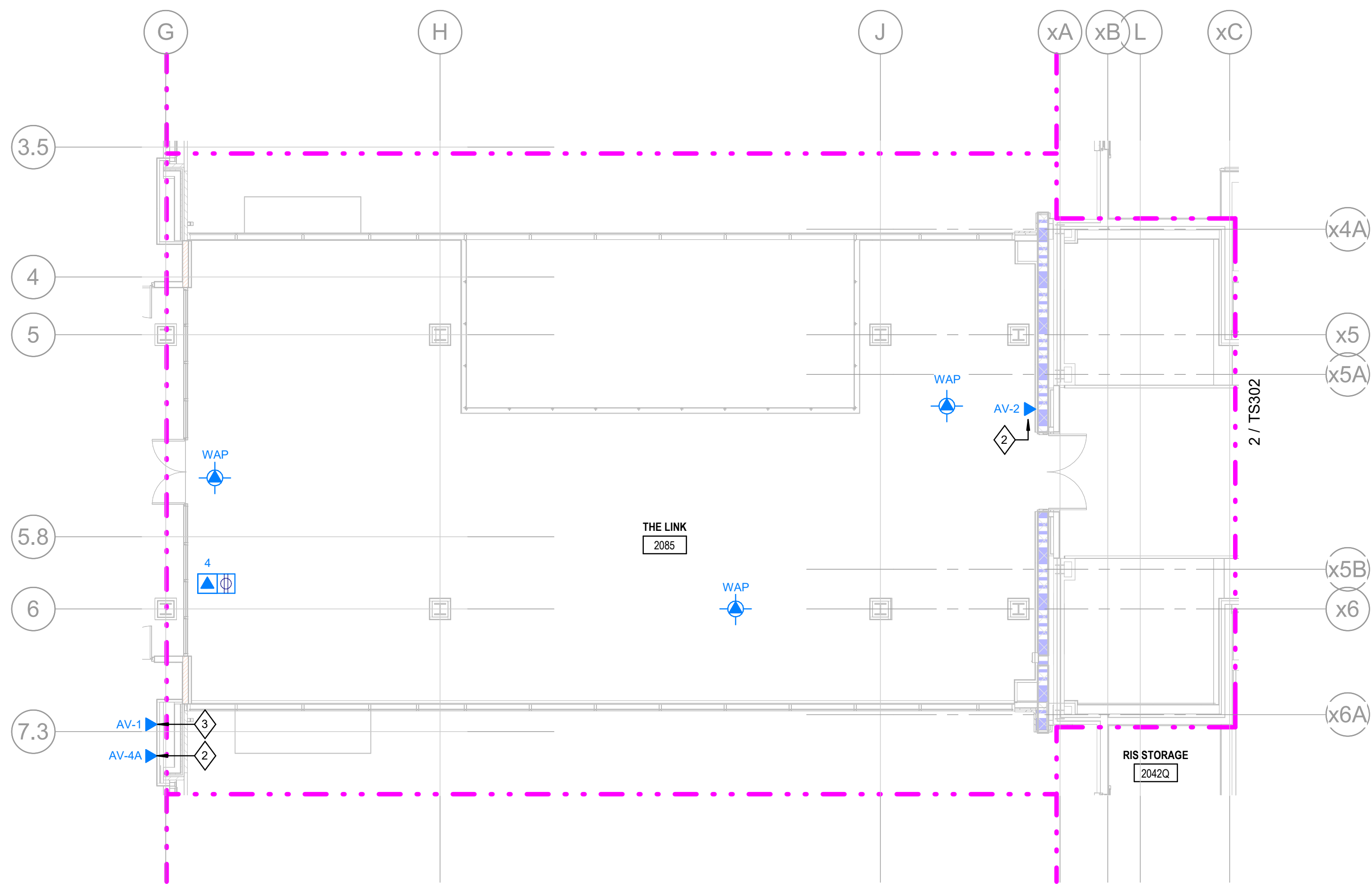
1. TELECOM DEVICES LOCATED ON LEVEL 1 ARE SERVED FROM IDF 1058A.
2. TELECOM DEVICES LOCATED ON LEVEL 2 ARE SERVED FROM IDF 2090A.

 SHEET KEYNOTES

- 1 (2) 4" C FROM IDF ROOM 1058A TO EXISTING MDF 1058 IN RANDALL LIBRARY. INSTALL PULLBOXES AS NECESSARY TO FACILITATE PULLING OF CABLE AND TO LIMIT NUMBER OF BENDS WITHIN CODE REQUIREMENTS.
- 2 TERMINATE CABLE IN AND MOUNT DEVICE TO AV BOX TYPE "T". REFER TO EAV DRAWINGS FOR FURTHER INFO.
- 3 TERMINATE CABLE IN AND MOUNT DEVICE TO AV BOX TYPE "B". REFER TO EAV DRAWINGS FOR FURTHER INFO.

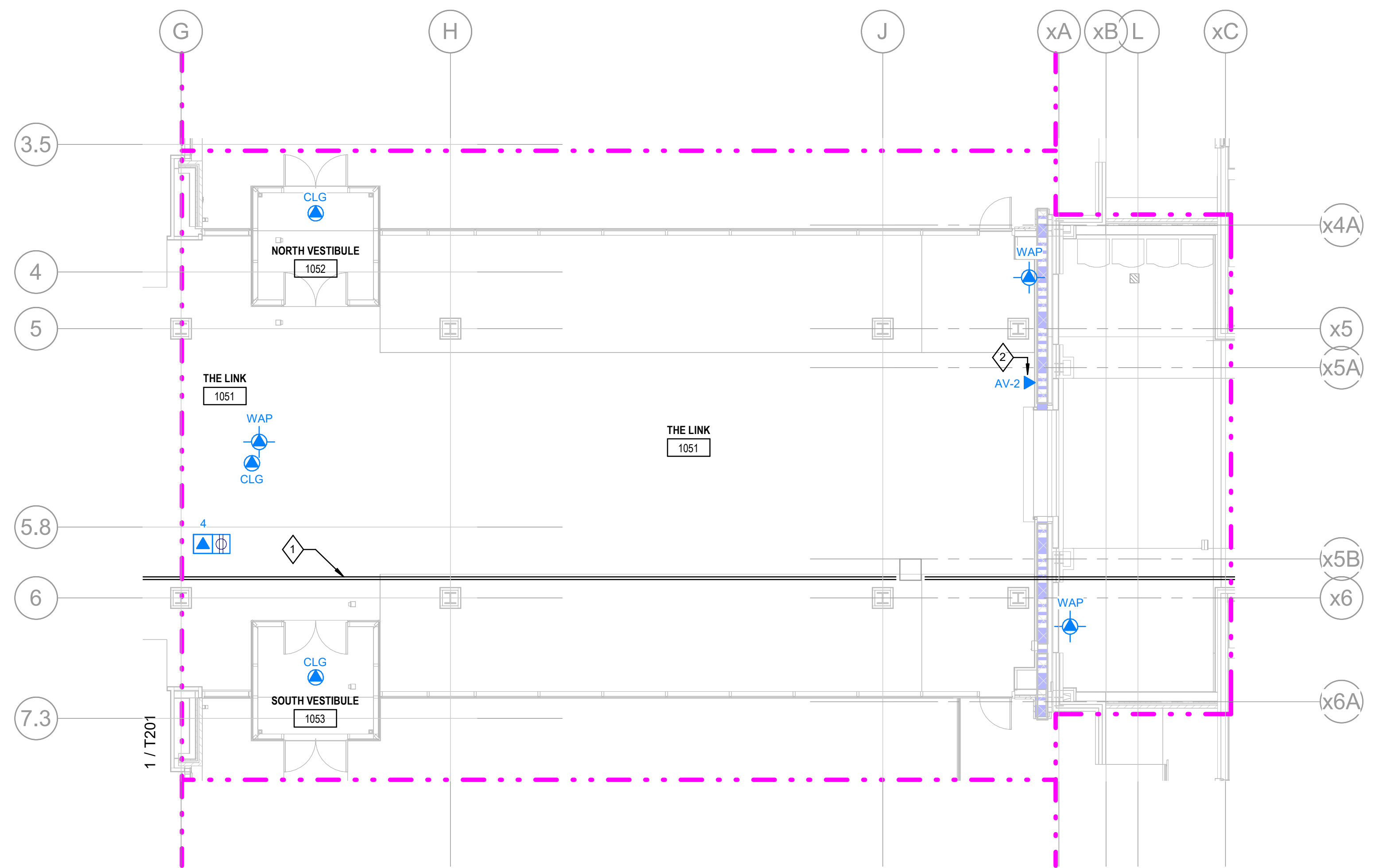
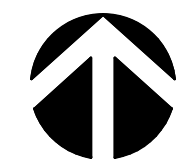
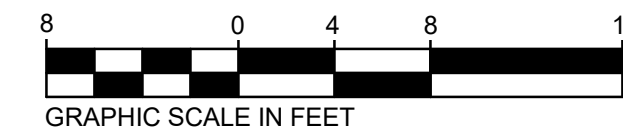
### **LIFE SAFETY LEGEND**

-  NEW NON-RATED PARTITION  
 EXISTING WALL TO REMAIN  
 UNRATED SMOKE BARRIER TO DECK  
 1 HR. RATED BARRIER TO DECK  
 2 HR. RATED BARRIER TO DECK  
 3 HR. RATED FIRE WALL TO DECK



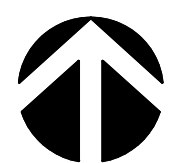
**2 TECHNOLOGY PLAN - LEVEL 2 - BUILDING LINK**  
SCALE: 1/8" = 1'-0"

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





**1 TECHNOLOGY PLAN - LEVEL 1 - BUILDING LINK**  
SCALE: 1/8" = 1'-0"

SCALE: 1/8" = 1'-






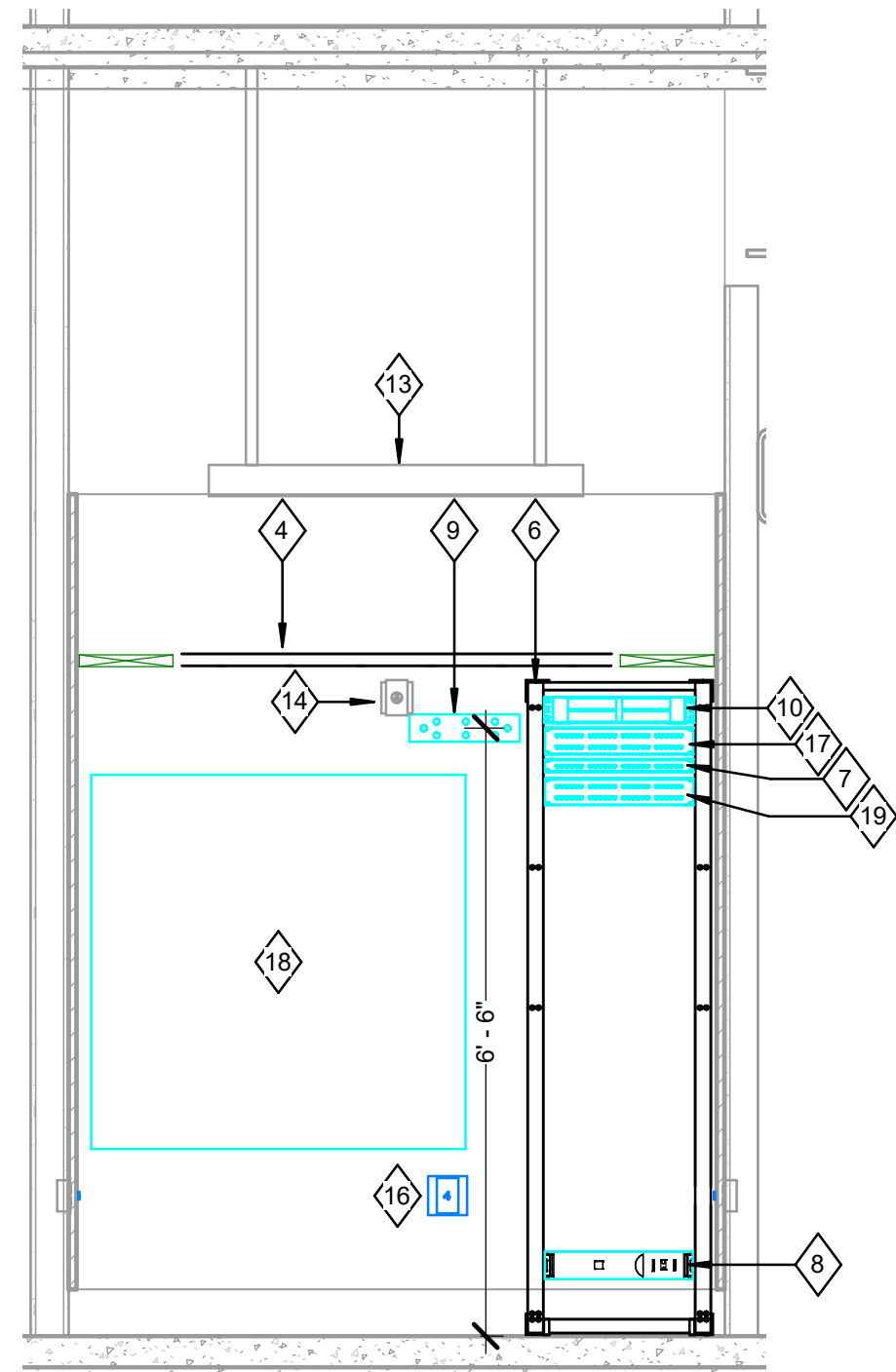
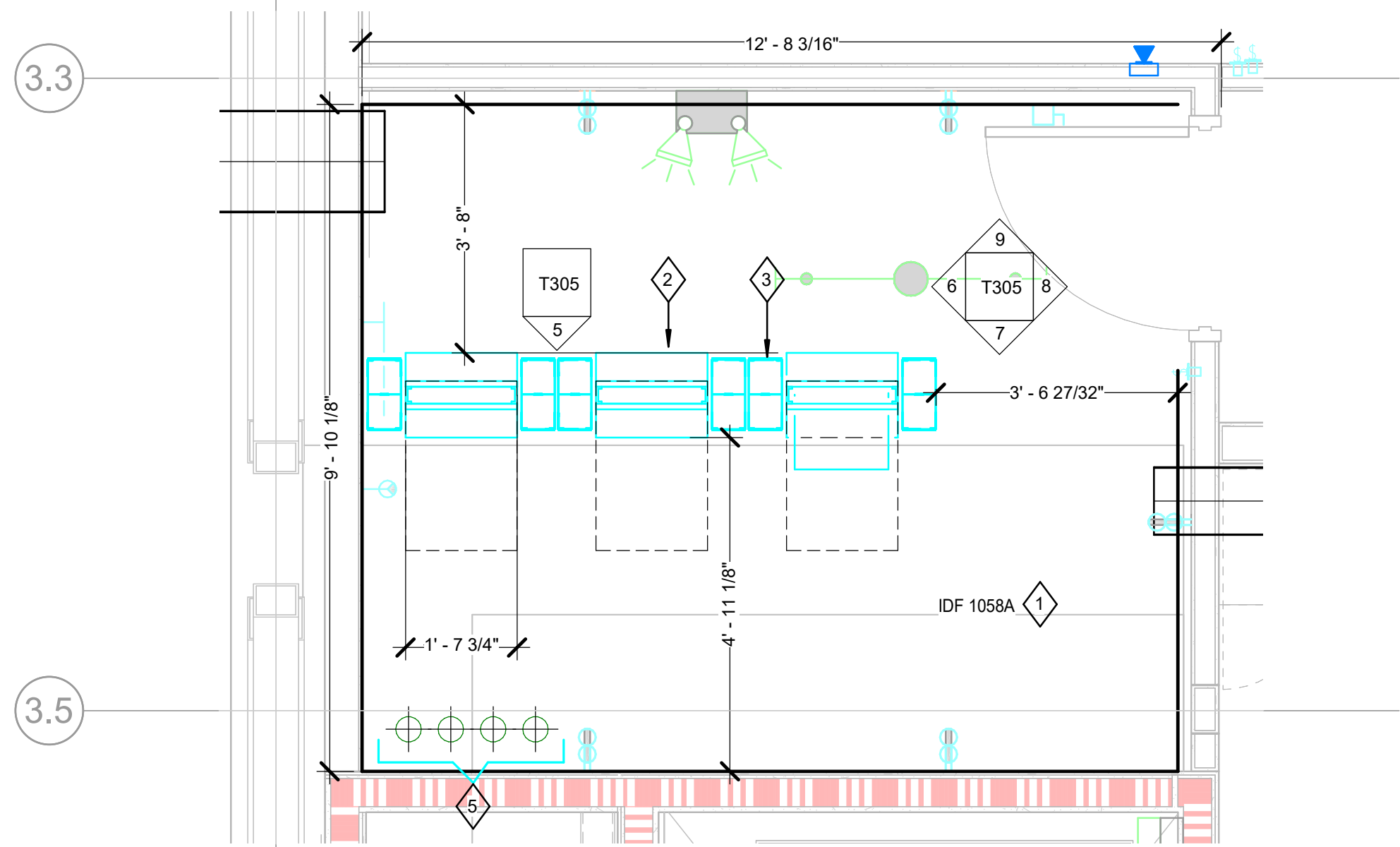
### **LIFE SAFETY LEGEND**

-  NEW NON-RATED PARTITION  
 EXISTING WALL TO REMAIN  
 UNRATED SMOKE BARRIER TO DECK  
 1 HR. RATED BARRIER TO DECK  
 2 HR. RATED BARRIER TO DECK  
 3 HR. RATED FIRE WALL TO DECK

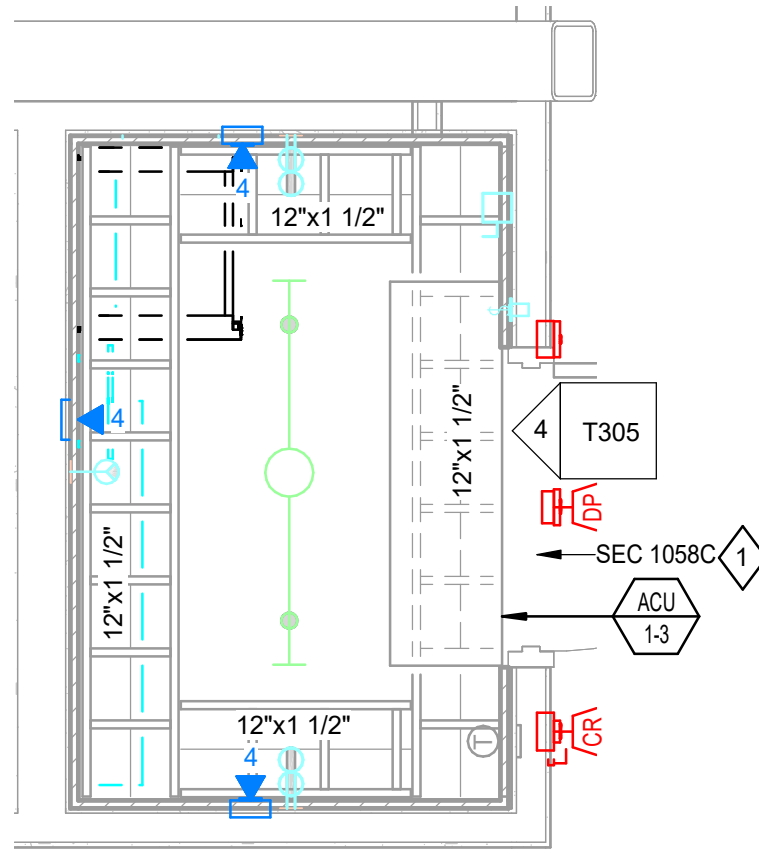
SHEET KEYNOTES

- ### LIFE SAFETY LEGEND

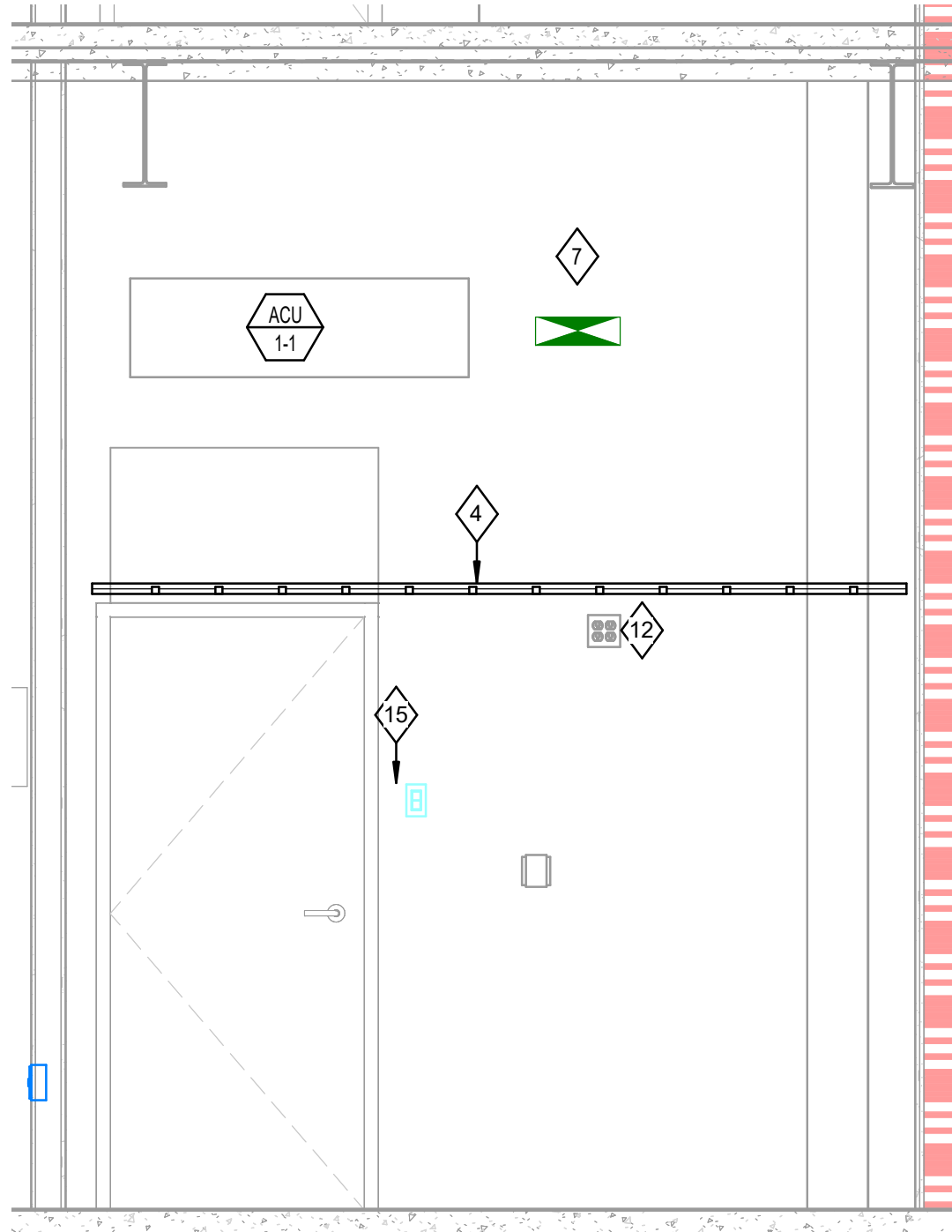
-  NEW NON-RATED PARTITION  
 EXISTING WALL TO REMAIN  
 UNRATED SMOKE BARRIER TO DECK  
 1 HR. RATED BARRIER TO DECK  
 2 HR. RATED BARRIER TO DECK  
 3 HR. RATED FIRE WALL TO DECK



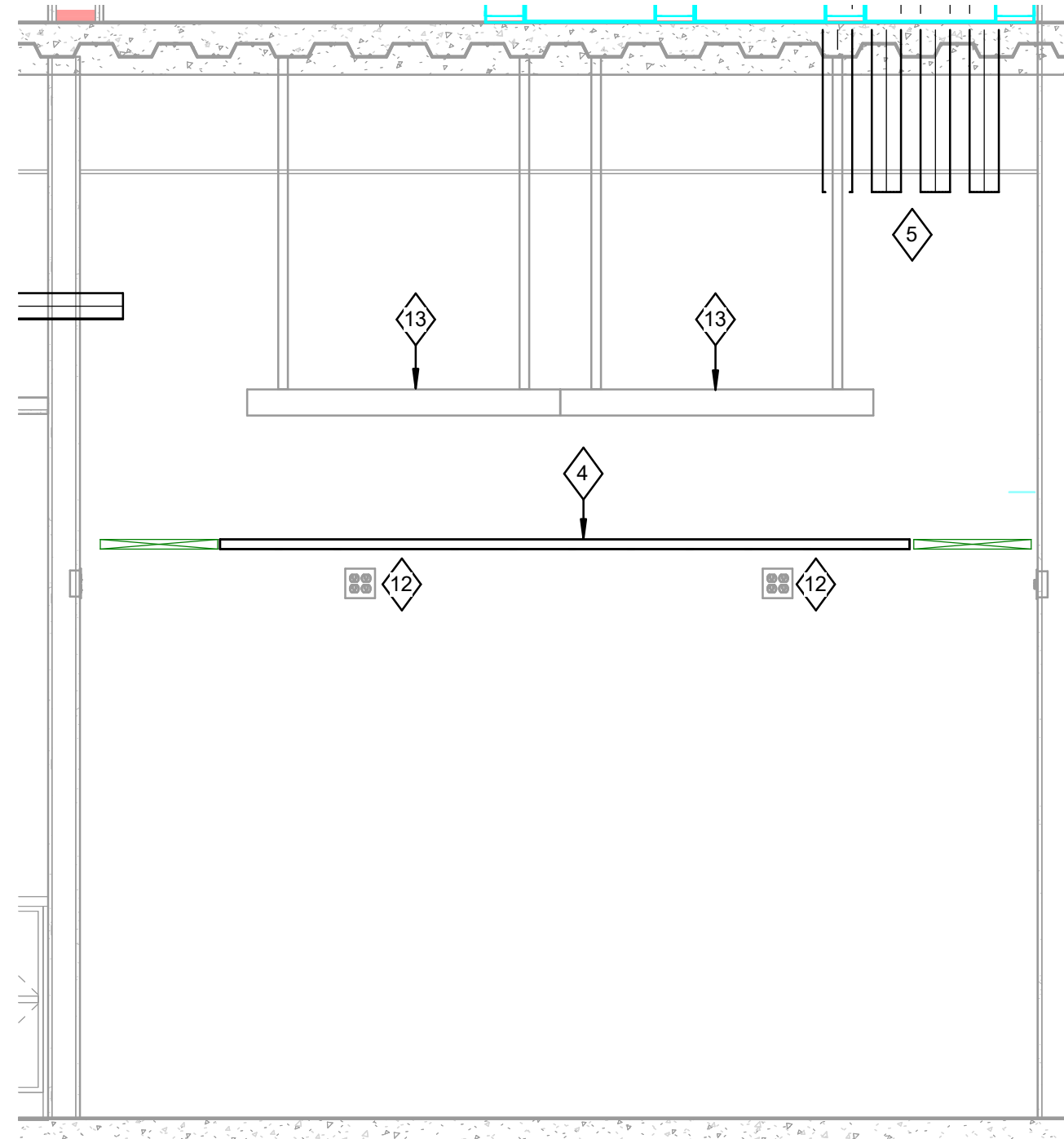
# 3 TECHNOLOGY PLAN - LEVEL 1 - SEC 1058C SCALE: 1/2" = 1'-0"



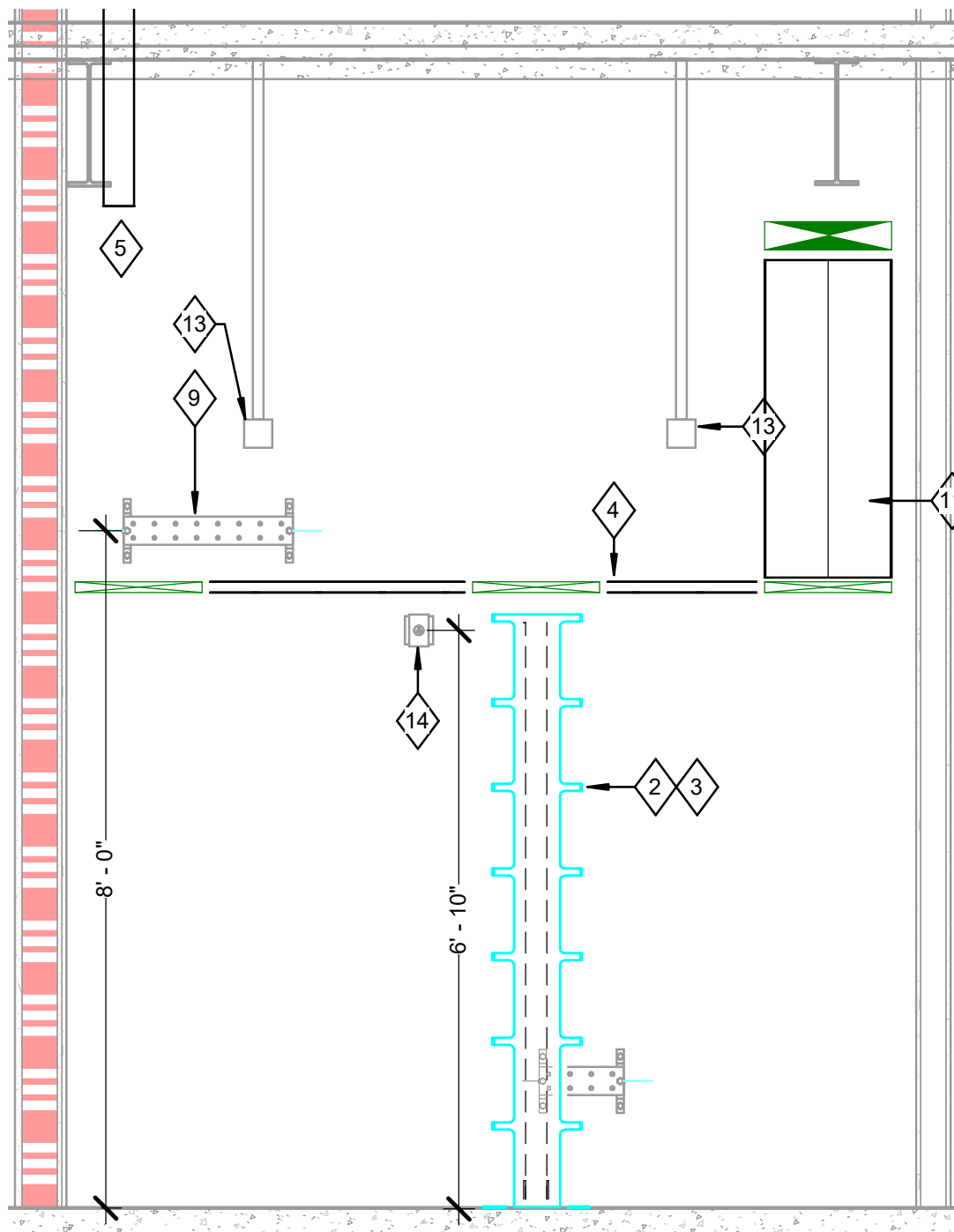
GRAPHIC SCALE IN FEET



**8** **IDF 1058A ELEVATION - EAST**  
SCALE: 1/2" = 1'-0"



**7 IDF 1058A ELEVATION - SOUTH**  
SCALE: 1/2" = 1'-0"



**6 IDF 1058A ELEVATION - WEST**  
SCALE: 1/2" = 1'-0"



**A**

6








-  NEW NON-RATED PARTITION  
 EXISTING WALL TO REMAIN  
 UNRATED SMOKE BARRIER TO DECK  
 1 HR. RATED BARRIER TO DECK  
 2 HR. RATED BARRIER TO DECK  
 3 HR. RATED FIRE WALL TO DECK



**A**



6

 NEW NON-RATED PARTITION  
 EXISTING WALL TO REMAIN  
 UNRATED SMOKE BARRIER TO DECK  
 1 HR. RATED BARRIER TO DECK  
 2 HR. RATED BARRIER TO DECK  
 3 HR. RATED FIRE WALL TO DECK



**A**

6

 NEW NON-RATED PARTITION  
 EXISTING WALL TO REMAIN  
 UNRATED SMOKE BARRIER TO DECK  
 1 HR. RATED BARRIER TO DECK  
 2 HR. RATED BARRIER TO DECK  
 3 HR. RATED FIRE WALL TO DECK



**A**

6




### PACKAGE C - BID DOCUMENTS

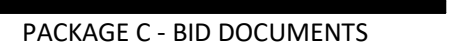
A



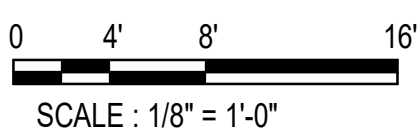
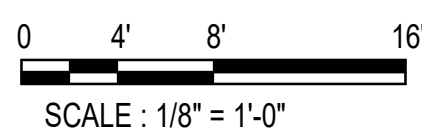
- DEMOLITION NOTES:**
1. THE VOICE, DATA, CATV, AND AV MUST BE COORDINATED THROUGH NETWORK COMMUNICATIONS. A CERTIFIED CONTRACTOR FOR THE BUILDING SOLUTION SYSTEMS, INC. (BSS) MUST COORDINATE THE REMOVAL OF THE VOICE, DATA, CATV, AND AV CABLING THAT IS IN THE RENOVATION. THIS INCLUDES THE REMOVAL OF EXISTING EQUIPMENT AND THE INSTALLATION OF NEW EQUIPMENT. THIS SECTION SHALL INCLUDE PROVIDING ALL LABOR AND EQUIPMENT TO REMOVAL OF THE EQUIPMENT AND REASONABLE INCIDENTAL TO THE PROPER COMPLETION OF ALL NETWORK COMMUNICATIONS WORK SHALL BE INCLUDED. REMOVAL OF THE NETWORK WORK SHALL ALSO INCLUDE, BUT IS NOT LIMITED TO: THE FURNISHINGS, UNLOADING, HANDLING, DISTRIBUTION, AND DISPOSAL OF ALL NETWORK EQUIPMENT AND REQUIRED COMPONENTS. THE CONTRACTOR WILL INSTALL AS-BUILTS, UPDATING ALL CHANGES IN EACH TR & R. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TO UNICOP PROJECT MANAGEMENT CAD DEPARTMENT REQUIREMENTS FOR ALL PROJECTS LISTED IN THE REMOVALS AND TO ALL RENOVATIONS INVOLVING VOICE, DATA, CATV, AND AV.




**LIFE SAFETY LEGEND**

|   |                               |
|---|-------------------------------|
|  | NEW NON-RATED PARTITION       |
|  | EXISTING WALL TO REMAIN       |
|  | UNRATED SMOKE BARRIER TO DECK |
|  | 1 HR. RATED BARRIER TO DECK   |
|  | 2 HR. RATED BARRIER TO DECK   |
|  | 3 HR. RATED FIRE WALL TO DECK |



A



 NEW NON-RATED PARTITION  
 EXISTING WALL TO REMAIN  
 UNRATED SMOKE BARRIER TO DECK  
 1 HR. RATED BARRIER TO DECK  
 2 HR. RATED BARRIER TO DECK  
 3 HR. RATED FIRE WALL TO DECK





**7 EQUIPMENT RACK FLOOR MOUNT INSTALLATION W/ FLOOR ANCHOR DETAIL**  
SCALE: NOT TO SCALE

#### 4 CABLE RUNWAY DETAIL

SCALE: NOT TO SCALE

**1 TYPICAL VERTICAL CABLE RUNWAY**  
SCALE: NOT TO SCALE

**8 TYPICAL VERTICAL CONDUIT SLEEVE**  
SCALE: NOT TO SCALE

**5 J-HOOK CEILING DETAIL**  
SCALE: NOT TO SCALE

**2 BASKET TRAY DETAIL**  
SCALE: NOT TO SCALE

**9 BASKET TRAY DROP-OUT**  
SCALE: 1/2" = 1'-0"

## 6 TECHNOLOGY ROOM GROUNDING BAR DETAIL

### 3 TECHNOLOGY OUTLET DETAIL

**NOTE:**  
TYPICAL INSTALLATION WITH CONDUIT STUBBED ABOVE CEILING FOR INSULATED,  
EXTERIOR, OR FIRE RATED WALLS UNLESS OTHERWISE SHOWN ON PLAN.

# RANDALL LIBRARY RENOVATION & EXPANSION UNCW

WILMINGTON, NC  
SCCO ID: 18-19656-02C  
LS3P PROJECT: 7202-19798

[illegible]

TECHNOLOGY DETAILS

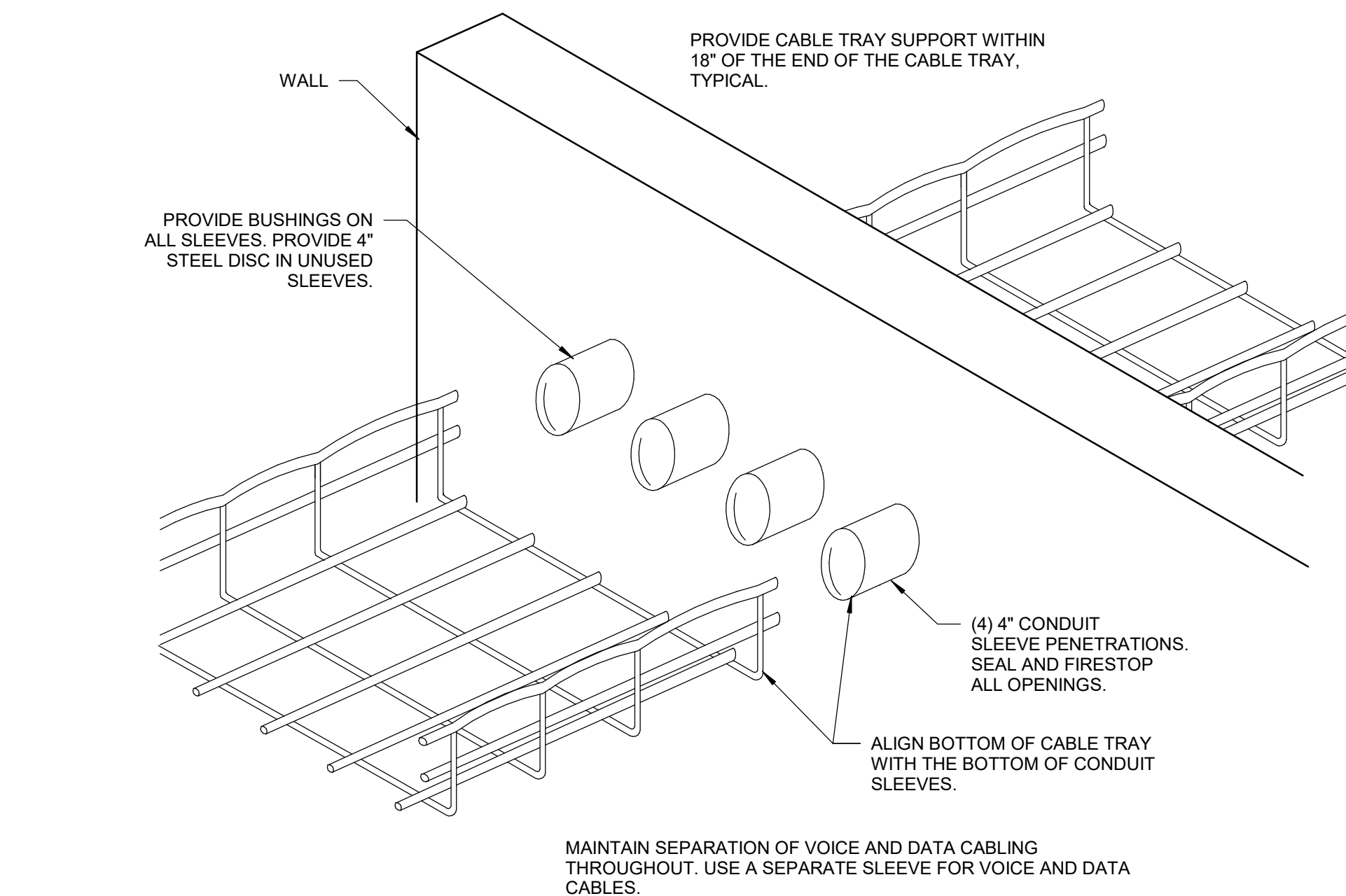
**ORIGINAL SUBMISSION:** 2022.07.01  
**CURRENT:** 2022.07.01

## PACKAGE C - BID DOCUMENTS

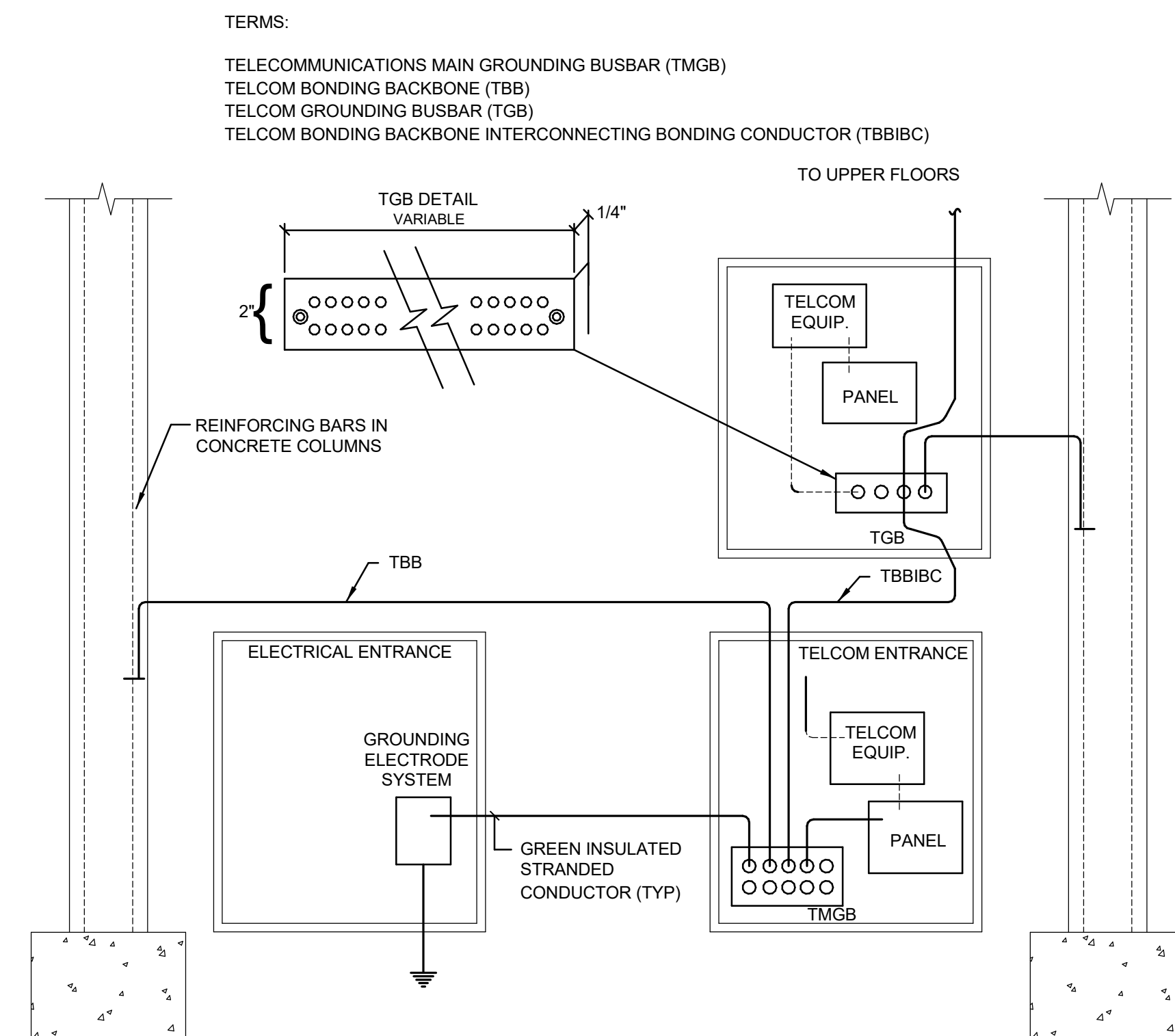
**HEET:**

# T501

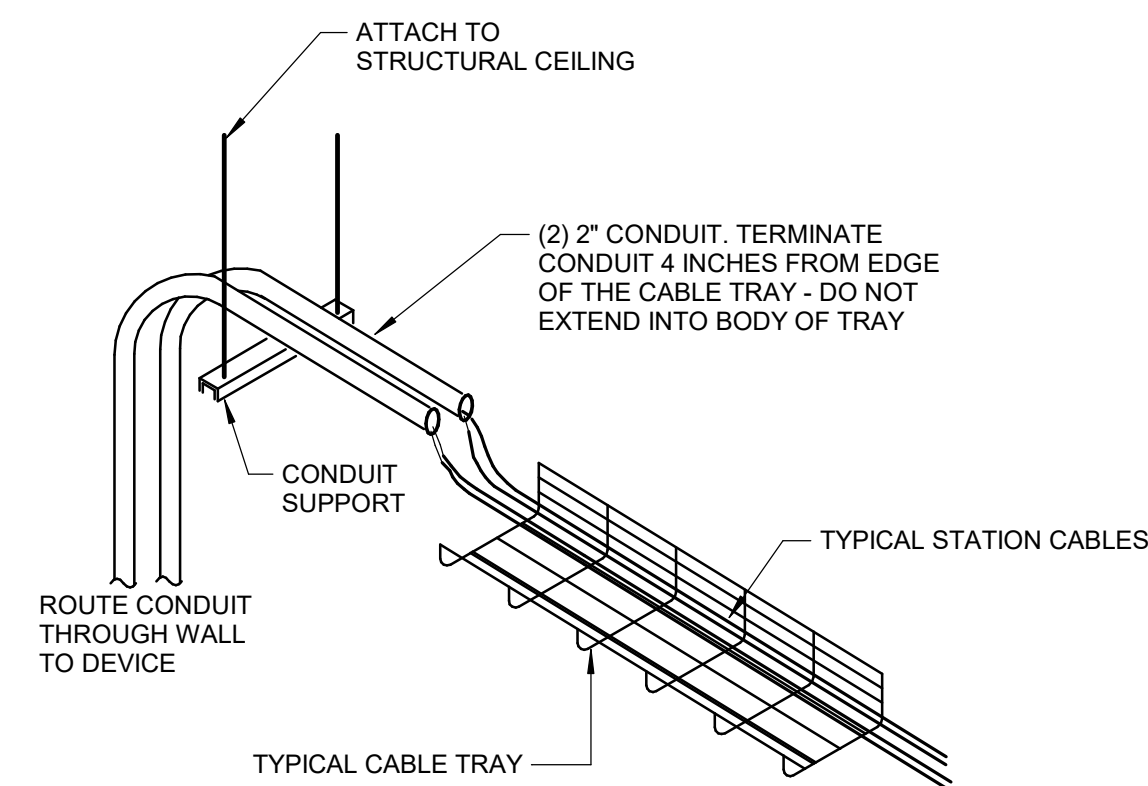
### PACKAGE C - BID DOCUMENTS



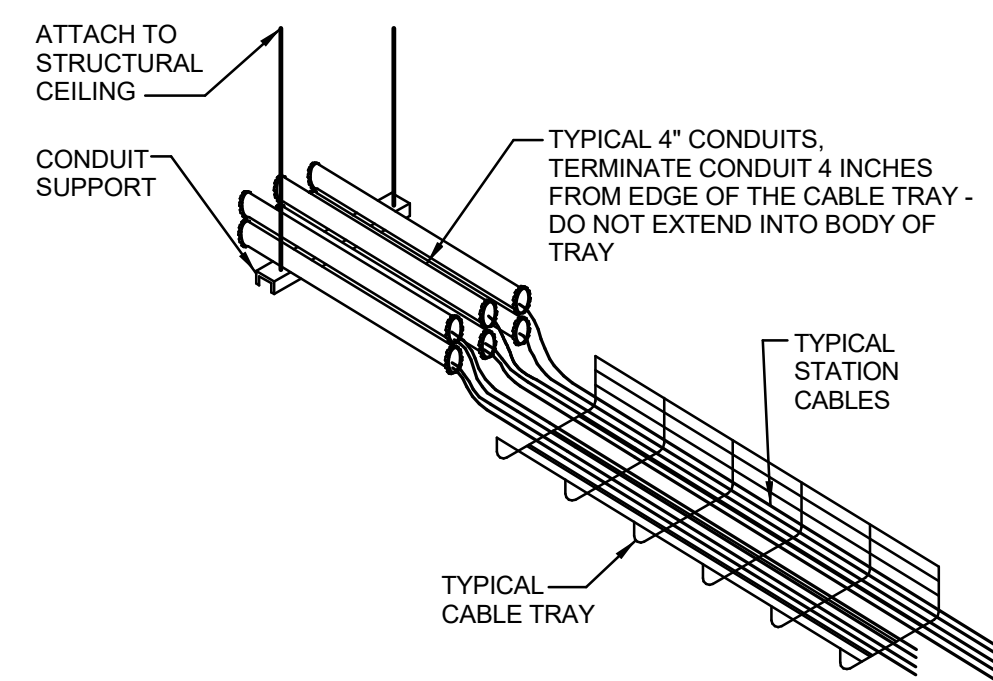
## 6 CABLE TRAY - CONDUIT PENETRATION



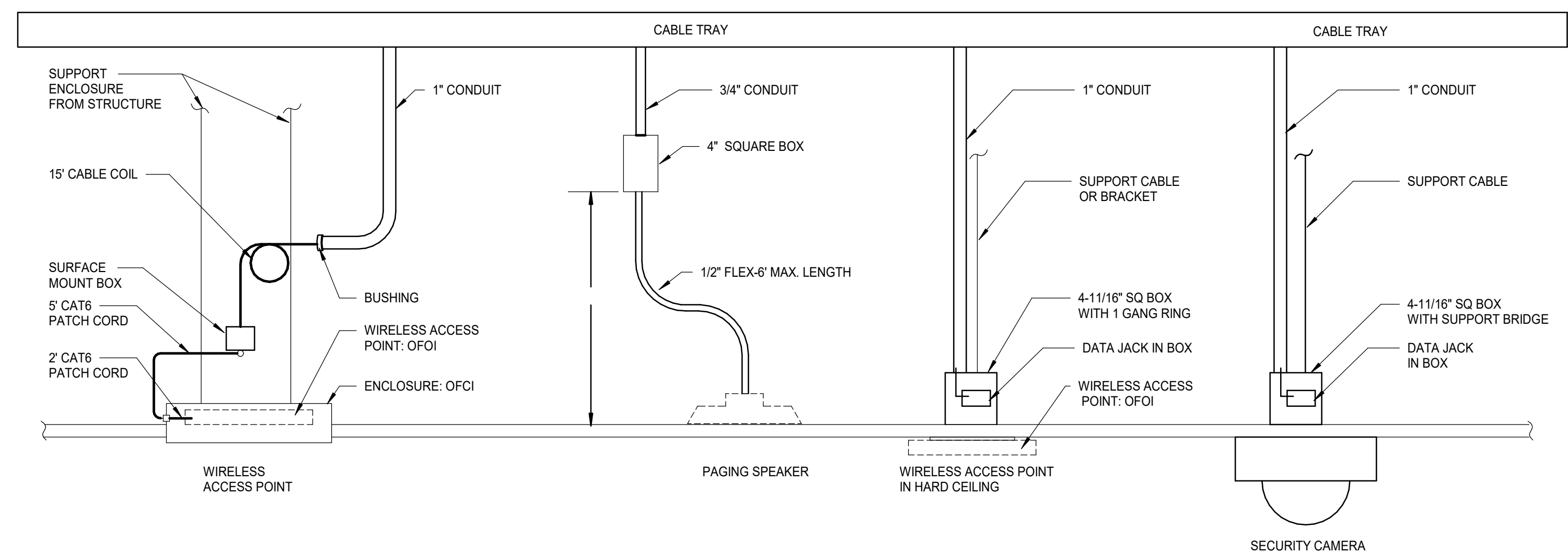
### SCHEMATIC OF GROUNDING/BOND NETWORK



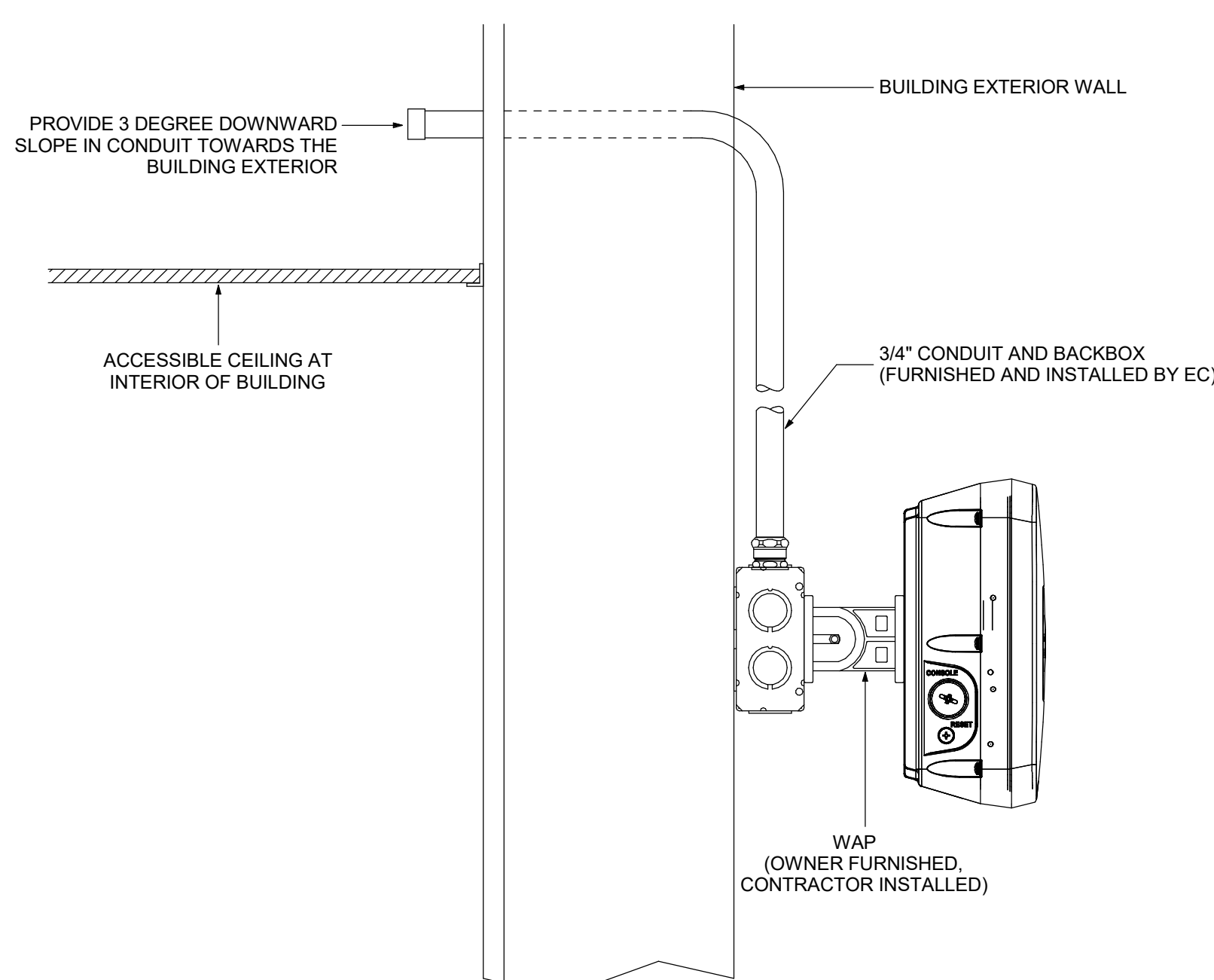
**7 TYPICAL CONDUIT TO CABLE TRAY TRANSITION FROM DEVICE**  
SCALE: NOT TO SCALE



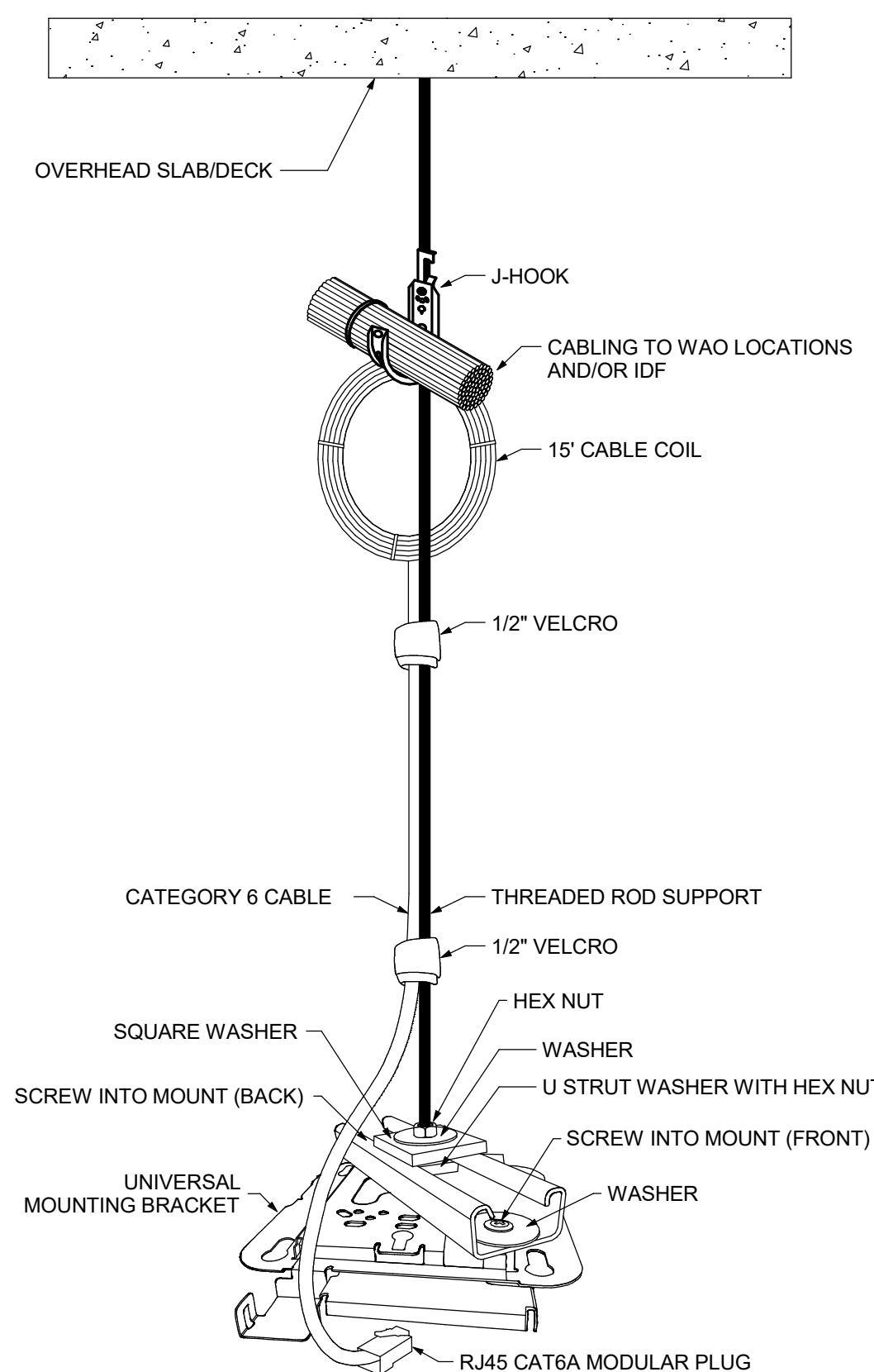
## 4 TYPICAL CONDUIT TO CABLE TRAY TRANSITION



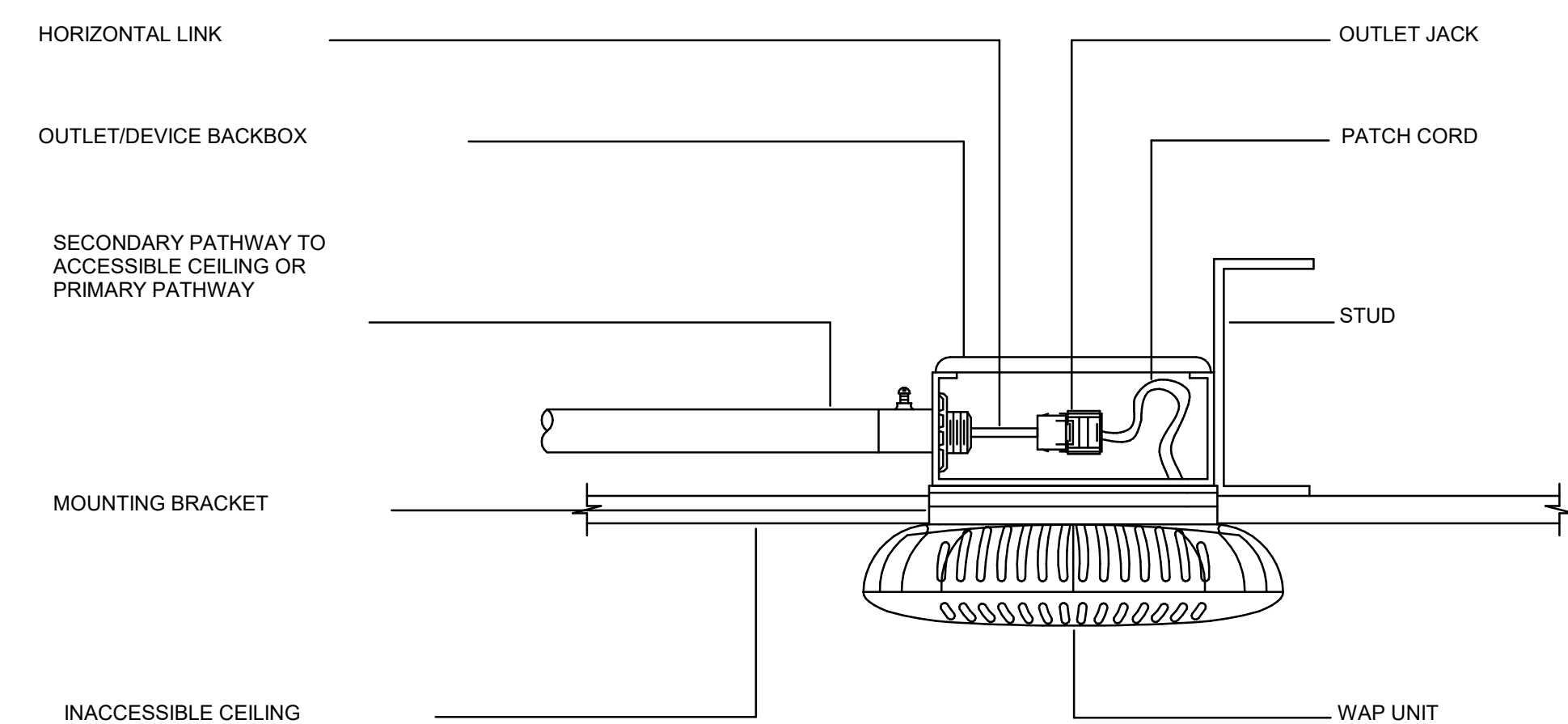
## 1 TECHNOLOGY CEILING MOUNTING DETAIL



## 8 EXTERIOR WAP MOUNTING



### OPEN CEILING WAP DETAIL

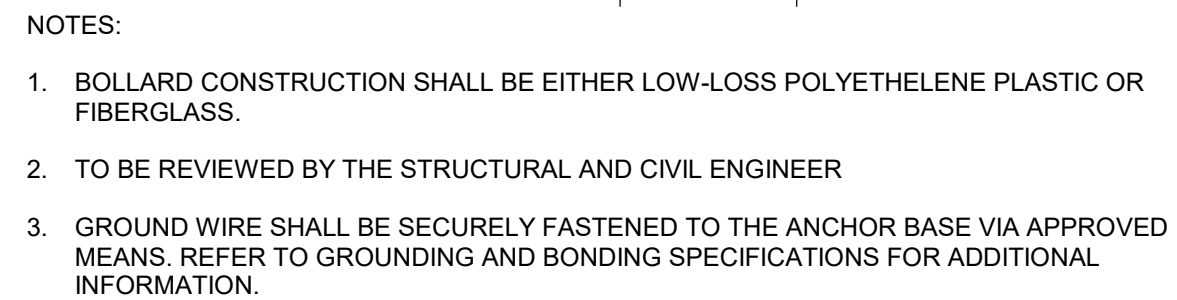


## 2 WAP - INACCESSIBLE CEILING MOUNT

NOTES:

1. REFER TO THE OUTLET SCHEDULE FOR OUTLET CONFIGURATION REQUIREMENTS.
2. REFER TO PLANS FOR OUTLET/DEVICE LOCATIONS.
3. WAP UNIT AND MOUNTING BRACKET ARE SHOWN AS EXAMPLES. THESE MAY DIFFER FROM OWNER FURNISHED COMPONENTS.
4. DIVISION 27 CONTRACTOR SHALL INSTALL AND PATCH WAP DEVICES (PROVIDED BY OWNER)





## 1 EXTERIOR WAP BOLLAR AND BASE DETAIL

UNCW  
55162 RANDALL DRIVE  
WILMINGTON, NC  
SCCO ID: 18-19656-02C  
LS3P PROJECT: 7202-197988

[illegible]

**SHEET NAME:**  
TECHNOLOGY DETAILS

ORIG SUBMISSION: 2022.07.01  
CURRENT: 2022.07.01  
PACKAGE C - BID DOCUMENTS

SHEET: \_\_\_\_\_

# T502

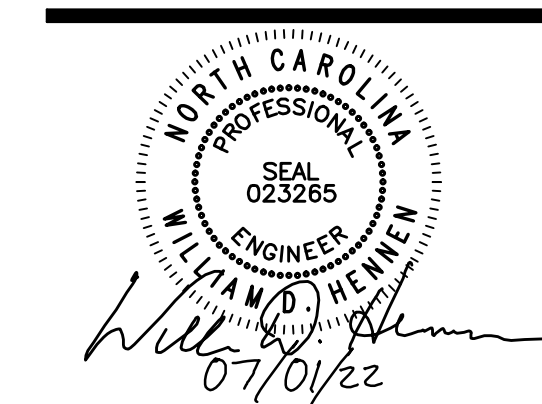
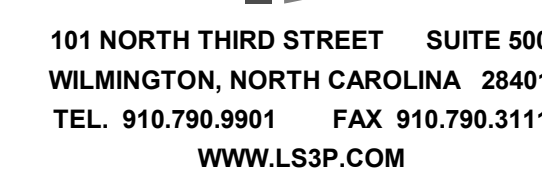
6



**A**



1. DRAWING IS FOR REFERENCE ONLY.
2. CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF THE EMERGENCY RESPONDER REINFORCEMENT SYSTEM.
3. CONTRACTOR SHALL DESIGN THE SYSTEM IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS, BUT SHALL ALSO COMPLY WITH ALL CODES AND REQUIREMENTS OF ALL SUPPORTED PUBLIC SAFETY FREQUENCIES. WHERE DISCREPANCIES ARISE, THE MORE STRINGENT REQUIREMENT WILL GOVERN.
4. CONTRACTOR SHALL DESIGN THE SYSTEM TO PROVIDE THE PERFORMANCE SPECIFIED THROUGHOUT THE CODE REQUIRED COVERAGE AREAS AND TO MEET THE APPROXIMATE ALL SUPPORTED PUBLIC SAFETY FREQUENCIES.



UNCW  
55162 RANDALL DRIVE  
WILMINGTON, NC  
66CO ID: 18-19656-02C  
S3P PROJECT: 7202-19798

[illegible]

**SHEET NAME:**  
TECHNOLOGY RISER DIAGRAMS

ORIG SUBMISSION: 2022.07.03  
CURRENT: 2022.07.03  
PACKAGE C - BID DOCUMENTS

SHEET: \_\_\_\_\_

# T601

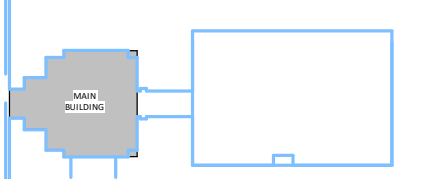
### PACKAGE C - BID DOCUMENTS

# RANDALL LIBRARY RENOVATION & EXPANSION

WILMINGTON, NC  
SCCO ID: 18-19656-02C  
LS3P PROJECT: 7202-19798

[illegible]

KEY PLAN:



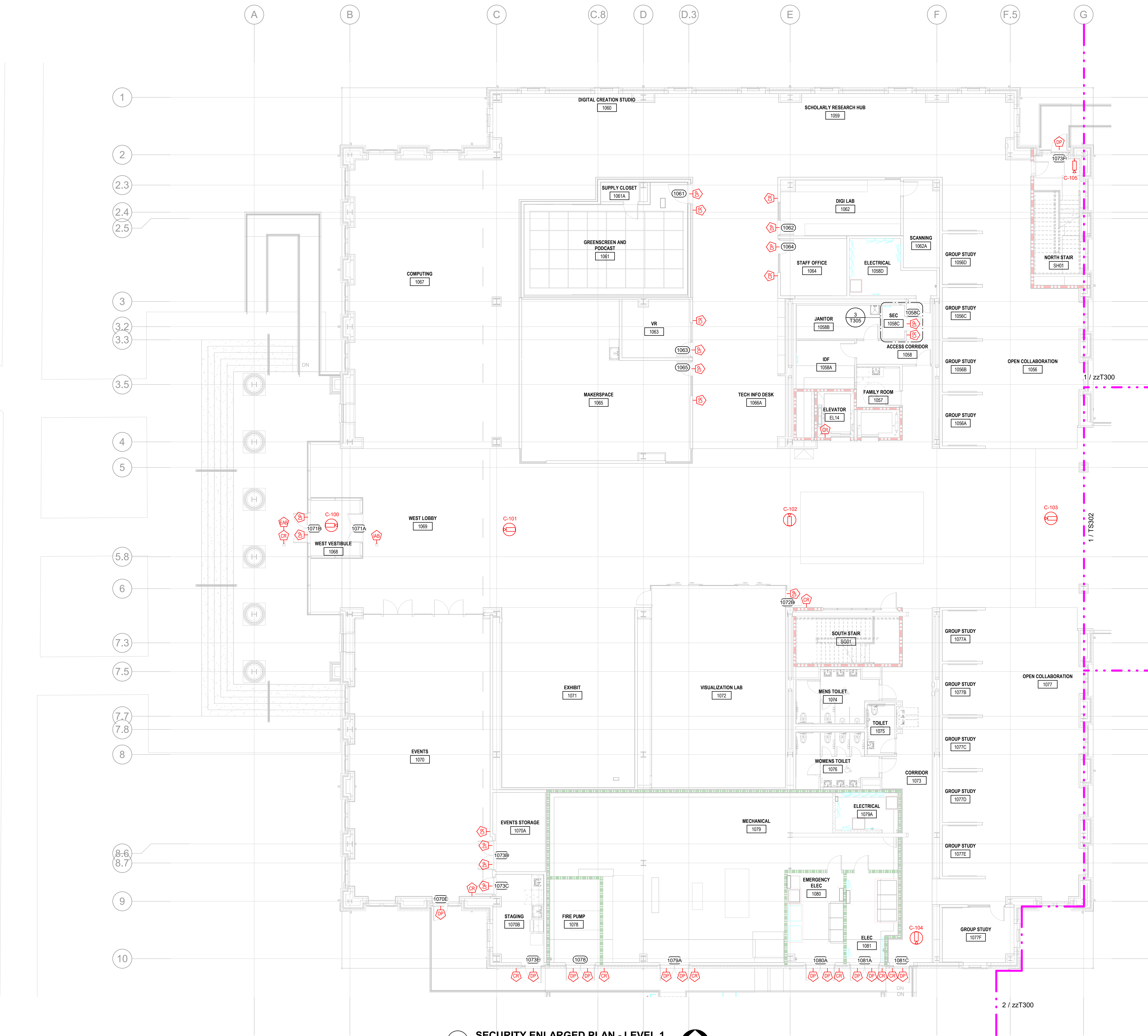
SECURITY PLAN - LEVEL 1

**ORIGINAL SUBMISSION:** 2022.07.01  
**CURRENT:** 2022.07.01

## PACKAGE C - BID DOCUMENTS

HEET: **TS201**




### PACKAGE C - BID DOCUMENTS



GENERAL NOTES:

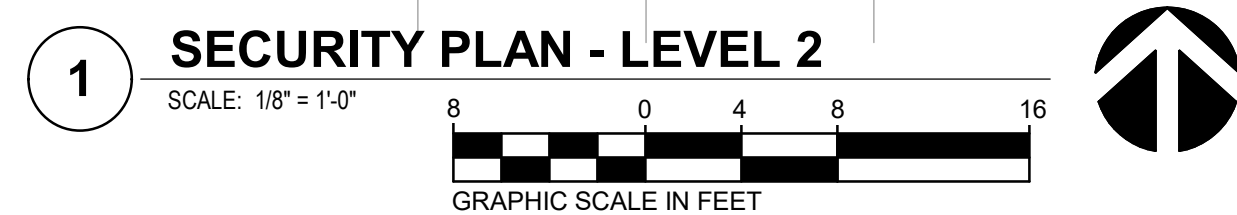
1. VERIFY ALL BACKBOX, RING TYPE AND PATHWAY REQUIREMENTS WITH CONTRACTOR PRIOR TO ROUGH-IN.
2. COORDINATE BACKBOX INSTALLATION AND RING DEPTH WITH ARCHITECTURAL WALL TYPE AND COVERING TO PROVIDE A FLUSH MOUNT INSTALLATION.
3. PROVIDE DEDICATED SECURITY CONDUIT PATHWAY WITH PULL STRING TO SECURITY ROOM 1058C.
4. PROVIDE ACoustICAL OR FIRE-RATED SEALING AROUND BACKBOX AND CONDUIT PENETRATION AS REQUIRED TO MEET WALL RATING.
5. GROUND BACKBOX AND CONDUIT PER SYSTEM REQUIREMENTS. VERIFY GROUNDING REQUIREMENTS WITH SYSTEM VENDOR.
6. ALL DEVICES ARE SERVED FROM SECURITY ROOM 1058C UNLESS NOTED OTHERWISE.



**LIFE SAFETY LEGEND**

-  NEW NON-RATED PARTITION  
 EXISTING WALL TO REMAIN  
 UNRATED SMOKE BARRIER TO DECK  
 1 HR. RATED BARRIER TO DECK  
 2 HR. RATED BARRIER TO DECK  
 3 HR. RATED FIRE WALL TO DECK



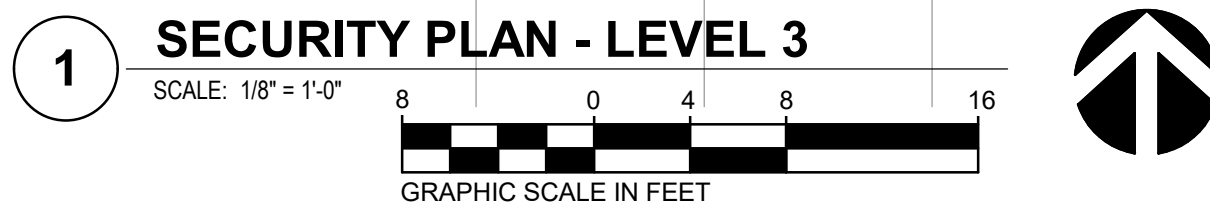
**A**





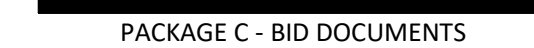
 NEW NON-RATED PARTITION  
 EXISTING WALL TO REMAIN  
 UNRATED SMOKE BARRIER TO DECK  
 1 HR. RATED BARRIER TO DECK  
 2 HR. RATED BARRIER TO DECK  
 3 HR. RATED FIRE WALL TO DECK



**A**



 NEW NON-RATED PARTITION  
 EXISTING WALL TO REMAIN  
 UNRATED SMOKE BARRIER TO DECK  
 1 HR. RATED BARRIER TO DECK  
 2 HR. RATED BARRIER TO DECK  
 3 HR. RATED FIRE WALL TO DECK

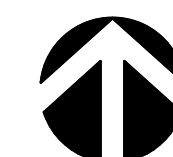






**A**

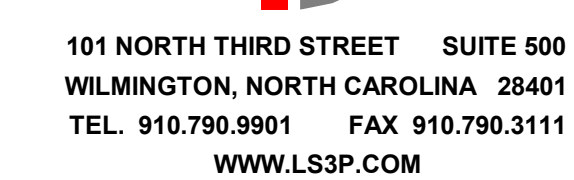
10

©

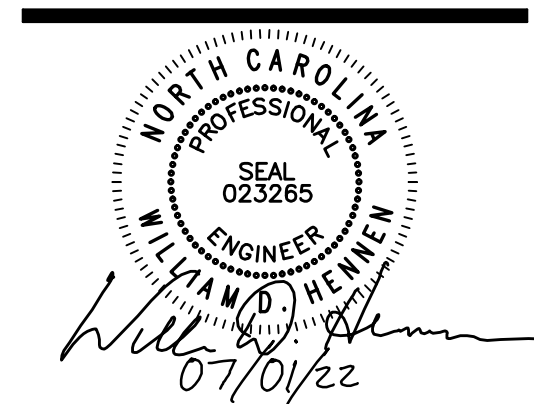


1. VERIFY ALL BACKBOX, RING TYPE AND PATHWAY REQUIREMENTS WITH CONTRACTOR PRIOR TO ROUGH-IN.
2. COORDINATE BACKBOX INSTALLATION AND RING DEPTH WITH ARCHITECTURAL WALL TYPE AND COVERING TO PROVIDE A FLUSH MOUNT INSTALLATION.
3. PROVIDE DEDICATED SECURITY CONDUIT PATHWAY WITH PULL STRING TO SECURITY ROOM 3007.
4. PROVIDE ACOUSTICAL OR FIRE-RATED SEALING AROUND BACKBOX AND CONDUIT PENETRATION AS REQUIRED TO MEET WALL RATING.
5. GROUND BACKBOX AND CONDUIT PER SYSTEM REQUIREMENTS. VERIFY GROUNDING REQUIREMENTS WITH SYSTEM VENDOR.
6. ALL DEVICES ARE SERVED FROM SECURITY ROOM 3007 UNLESS NOTED OTHERWISE.

 NEW NON-RATED PARTITION  
 EXISTING WALL TO REMAIN  
 UNRATED SMOKE BARRIER TO DECK  
 1 HR. RATED BARRIER TO DECK  
 2 HR. RATED BARRIER TO DECK  
 3 HR. RATED FIRE WALL TO DECK



**AEI Affiliated Engineers\***  
Affiliated Engineers, Inc.  
1414 Raleigh Road, Suite 305  
Chapel Hill, North Carolina 275  
Tel 919.419.9802 Fax 919.913.4  
www.aeeng.com  
NC LIC. NO. C-2982

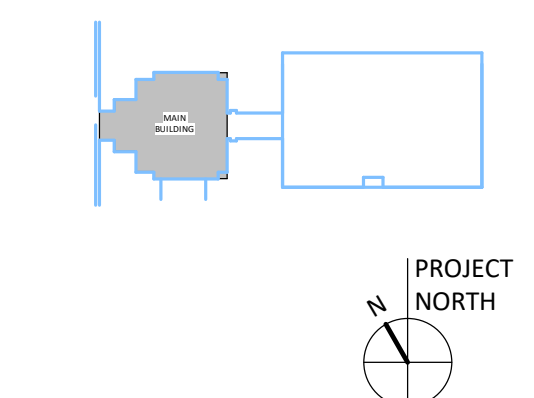


**RANDALL LIBRARY  
RENOVATION & EXPANSION**

UNCW  
5162 RANDALL DRIVE  
WILMINGTON, NC  
66CO ID: 18-19656-02C  
S3P PROJECT: 7202-197980

[illegible]

KEY PLAN:



**SHEET NAME:**

SECURITY PLAN - LEVEL 4

ORIG SUBMISSION: 2022 07 01

**CURRENT:** 2022.07.01

## PACKAGE C - BID DOCUMENTS

SHEET:

TS204

### PACKAGE C - BID DOCUMENTS

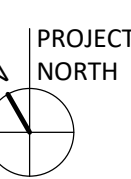
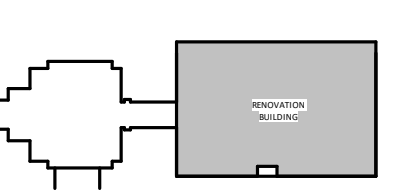
- NEW NON-RATED PARTITION
- EXISTING WALL TO REMAIN
- UNRATED SMOKE BARRIER TO DECK
- 1 HR. RATED BARRIER TO DECK
- 2 HR. RATED BARRIER TO DECK
- 3 HR. RATED FIRE WALL TO DECK

**KANDALL LIBRARY  
RENOVATION & EXPANSION  
UNCW**

5162 RANDALL DRIVE  
WILMINGTON, NC  
SCO ID: 18-19656-02C  
LS3P PROJECT: 7202-197988

[illegible]

PLAN:



**T NAME:**

NO - SECURITY PLAN - LEVEL 1 -  
NEW WORK

**ORIGINAL SUBMISSION: 2022.07.01**

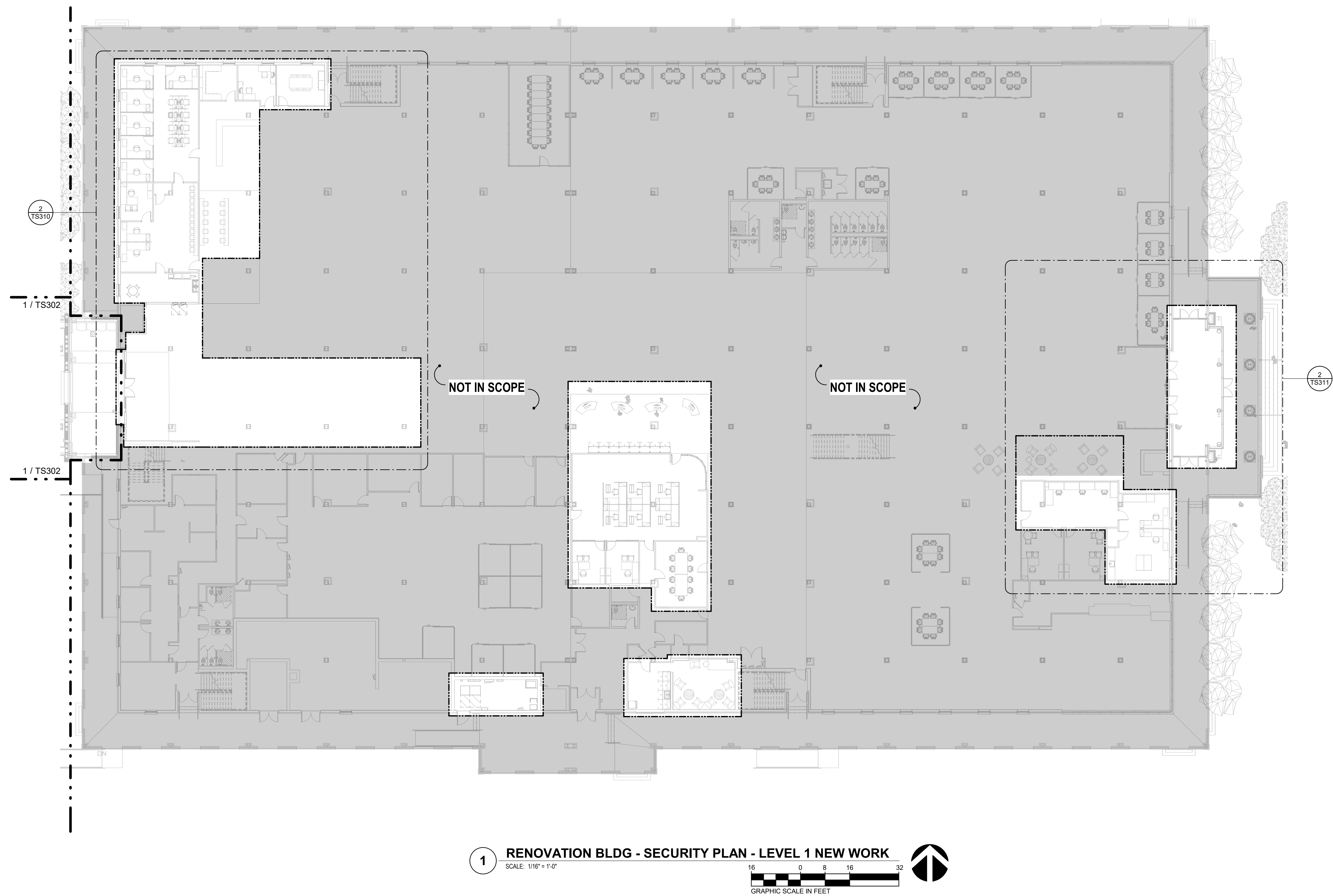
CURRENT: 2022.07.01

### PACKAGE C - BID DOCUMENTS




T:

**S211**

### PACKAGE C - BID DOCUMENTS

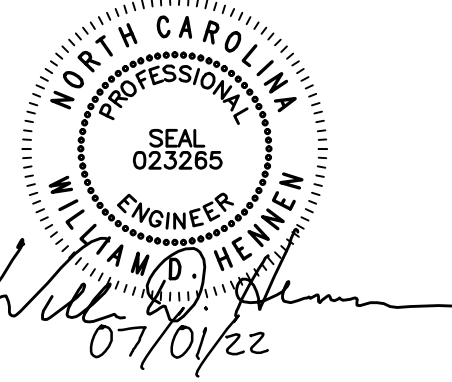


### LIFE SAFETY LEGEND

-  NEW NON-RATED PARTITION  
 EXISTING WALL TO REMAIN  
 UNRATED SMOKE BARRIER TO DECK  
 1 HR. RATED BARRIER TO DECK  
 2 HR. RATED BARRIER TO DECK  
 3 HR. RATED FIRE WALL TO DECK



**AEL Affiliated Engineers, Inc.**  
14 Raleigh Road, Suite 305  
Chapel Hill, North Carolina 27517  
Tel 919.419.9802 Fax 919.913.4301  
www.aeleng.com  
C LIC. NO. C-2982

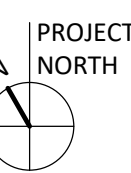
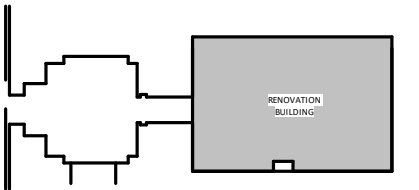


**KANDALL LIBRARY  
RENOVATION & EXPANSION**  
UNCW

5162 RANDALL DRIVE  
WILMINGTON, NC  
SCO ID: 18-19656-02C  
LS3P PROJECT: 7202-19798

[illegible]

PLAN:



**NET NAME:**

NO - SECURITY PLAN - LEVEL 2 -  
DEMO WORK

**RIG SUBMISSION:** 2022.07.01

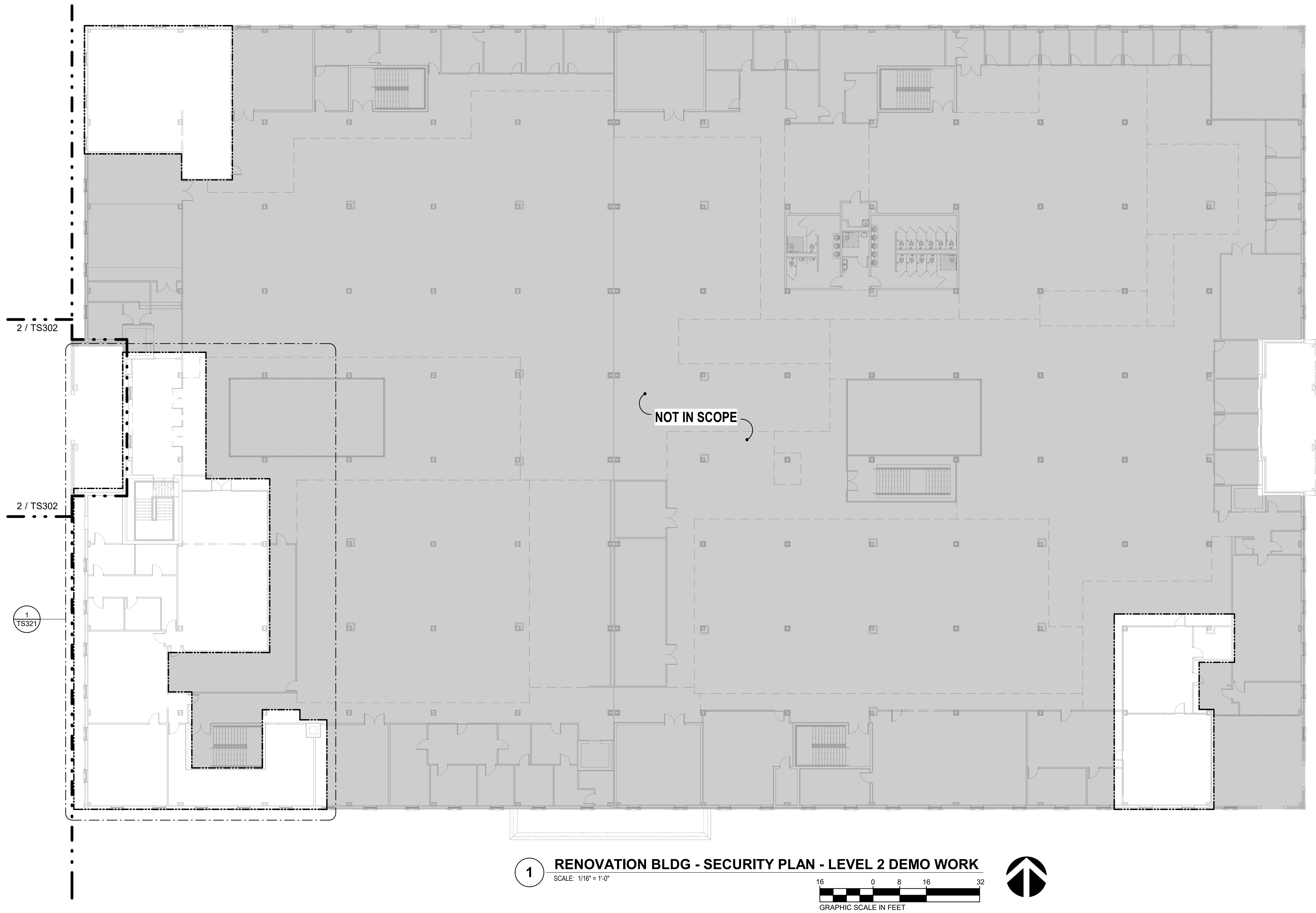
**CURRENT:** 2022.07.01

### PACKAGE C - BID DOCUMENTS




**ET:**

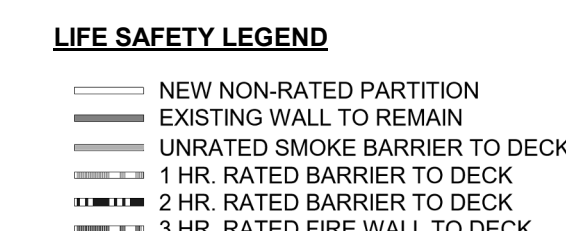
## S220

PACKAGE C - BID DOCUMENTS



### LIFE SAFETY LEGEND

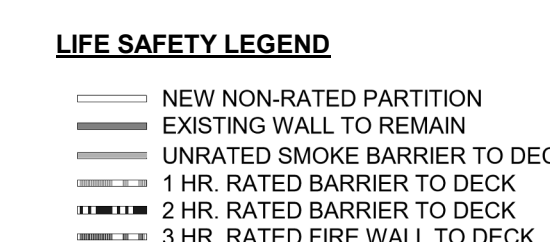
-  NEW NON-RATED PARTITION  
 EXISTING WALL TO REMAIN  
 UNRATED SMOKE BARRIER TO DECK  
 1 HR. RATED BARRIER TO DECK  
 2 HR. RATED BARRIER TO DECK  
 3 HR. RATED FIRE WALL TO DECK



-  NEW NON-RATED PARTITION  
 EXISTING WALL TO REMAIN  
 UNRATED SMOKE BARRIER TO DECK  
 1 HR. RATED BARRIER TO DECK  
 2 HR. RATED BARRIER TO DECK  
 3 HR. RATED FIRE WALL TO DECK



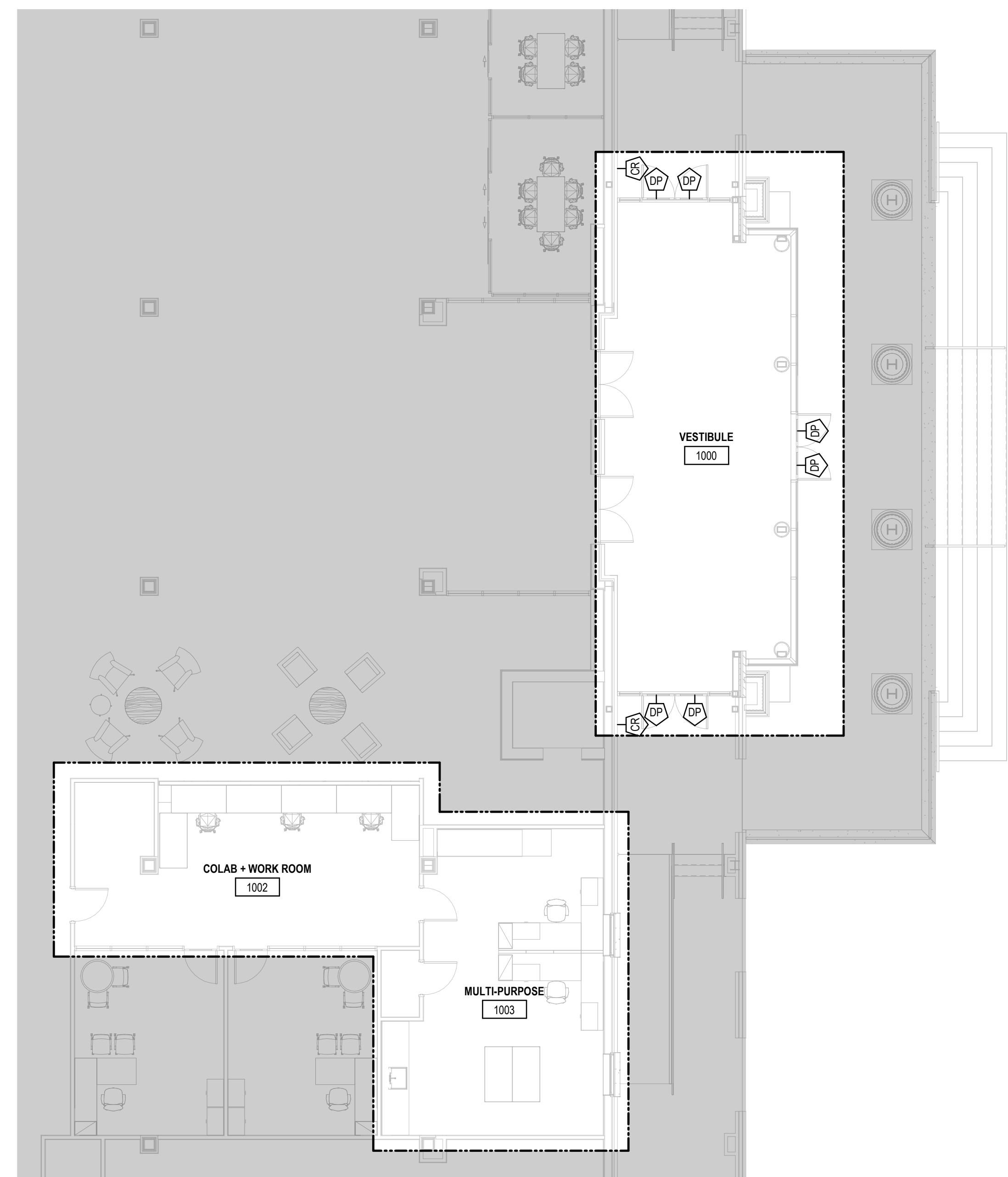
- ### PACKAGE C - BID DOCUMENTS



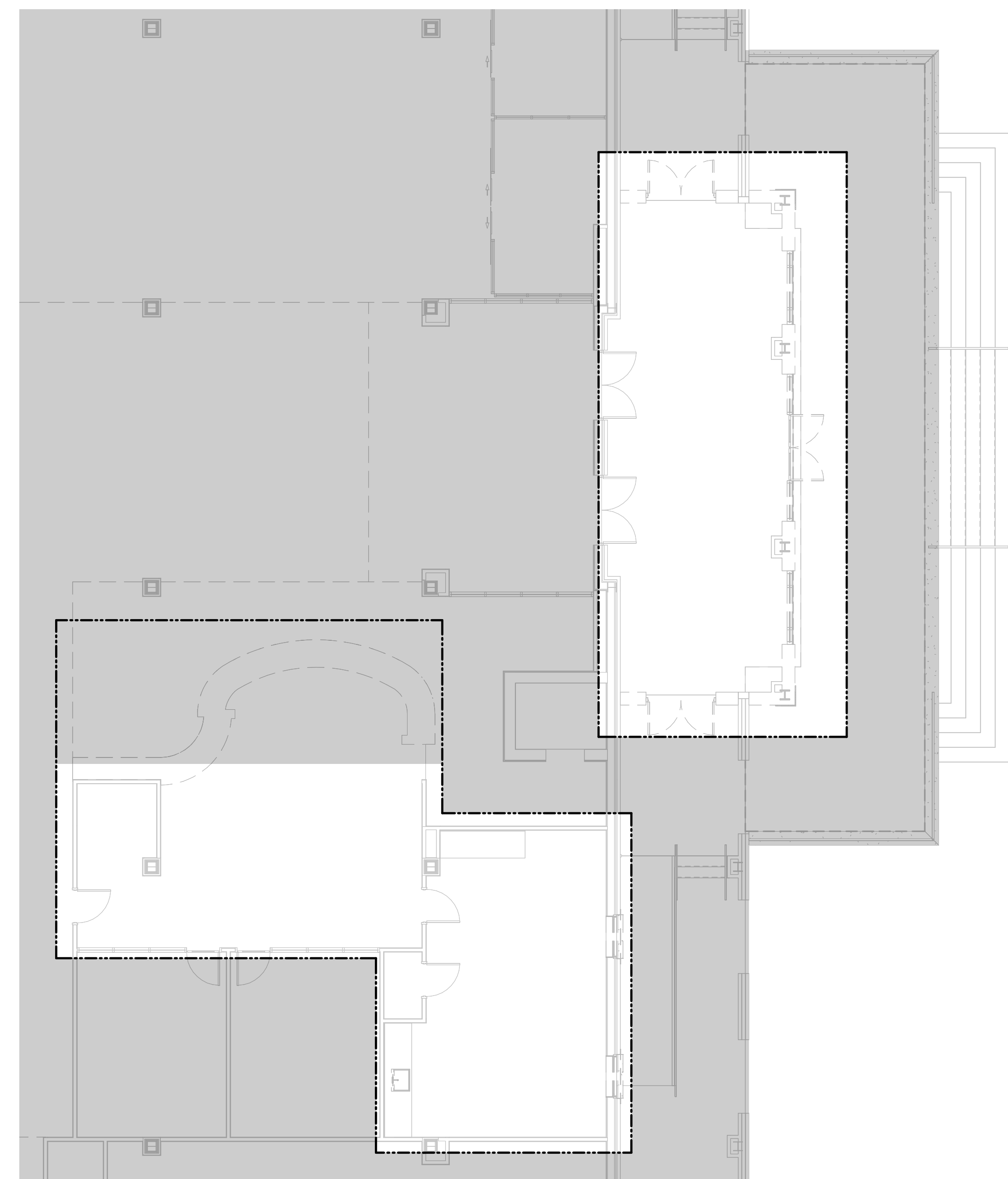
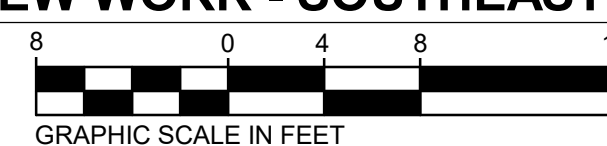
A

6

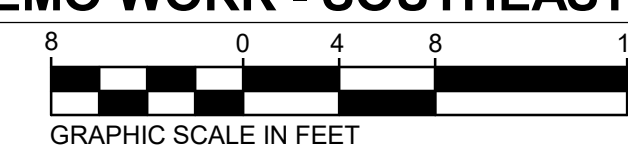
### PACKAGE C - BID DOCUMENTS





**2 RENOVATION BLDG - SECURITY PLAN - LEVEL 1 NEW WORK - SOUTHEAST**  
SCALE: 1/8" = 1'-0" 8 0 4 8

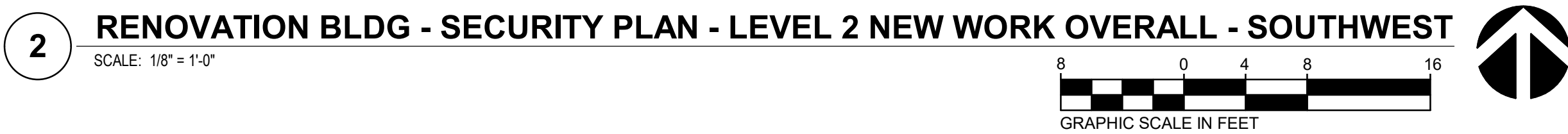





**1 RENOVATION BLDG - SECURITY PLAN - LEVEL 1 - DEMO WORK - SOUTHEAST**  
SCALE: 1/8" = 1'-0" 8 0 4 8 1



 NEW NON-RATED PARTITION  
 EXISTING WALL TO REMAIN  
 UNRATED SMOKE BARRIER TO DECK  
 1 HR. RATED BARRIER TO DECK  
 2 HR. RATED BARRIER TO DECK  
 3 HR. RATED FIRE WALL TO DECK

**A**



- ### LIFE SAFETY LEGEND
- |   |                               |
|---|-------------------------------|
|  | NEW NON-RATED PARTITION       |
|  | EXISTING WALL TO REMAIN       |
|  | UNRATED SMOKE BARRIER TO DECK |
|  | 1 HR. RATED BARRIER TO DECK   |
|  | 2 HR. RATED BARRIER TO DECK   |
|  | 3 HR. RATED FIRE WALL TO DECK |



TS321





# RANDALL LIBRARY RENOVATION & EXPANSION

WILMINGTON, NC  
SSCO ID: 18-19656-02C  
LS3P PROJECT: 7202-19798

[illegible]

**SHEET NAME:**  
SECURITY DETAILS

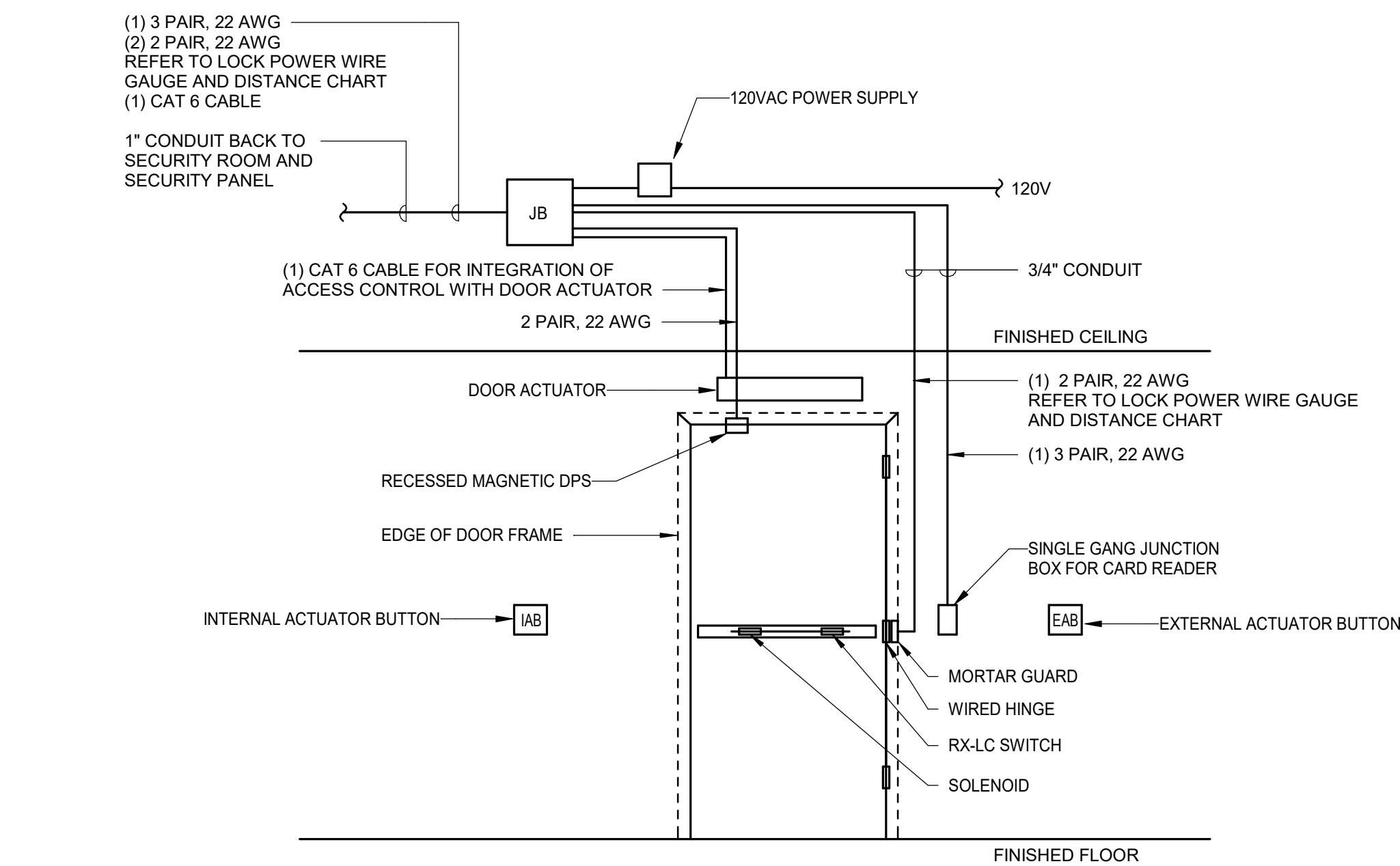
**ORIG SUBMISSION:** 2022.07.01  
**CURRENT:** 2022.07.01

PACKAGE C - BID DOCUMENTS

SHEET: \_\_\_\_\_

# TS501

### PACKAGE C - BID DOCUMENTS



- NOTES**
1. DOOR ORIENTATION, OUTSIDE LOOKING IN.
  2. (JB) CABLING JUNCTION BOX.
  3. ALL HARDWARE SHALL COORDINATE WITH HARDWARE SCHEDULE.
  4. ALL CABLE, CONDUIT AND HARDWARE SHALL BE INSTALLED BY CONTRACTOR.
  5. POWER SUPPLY AND ACCESS CONTROLLER MUST BE LOCATED IN SECURITY ROOM.
  6. CONTRACTOR SHALL MAKE ALL WIRE TERMINATIONS IN ACCORDANCE WITH UNCW ACCESS CONTROL STANDARDS. WIRE SPLICES ARE NOT PERMITTED.
  7. IAB AND EAB INTERIOR AND EXTERIOR ACTUATOR BUTTON, DOUBLE GANG BOXES WITH 3/4" CONDUIT. INSTALLED AND WIRED BY CONTRACTOR PER MANUFACTURER STANDARDS.

| <b>LOCK POWER WIRE GAUGE AND DISTANCE CHART</b> |            |                     |
|---|------------|---------------------|
| <b>LOCK</b>                                     | <b>AWG</b> | <b>MAX DISTANCE</b> |
| ELECTRIC LATCH RETRACTION                       | 12         | 180 FEET            |
| QUIET ELECTRIC LATCH RETRACTION                 | 12         | 300 FEET            |
| MORTISE/STRIKE                                  | 16         | 300 FEET            |

### ACTUATOR SEQUENCE OF OPERATION

DOORS IN UNLOCK MODE.

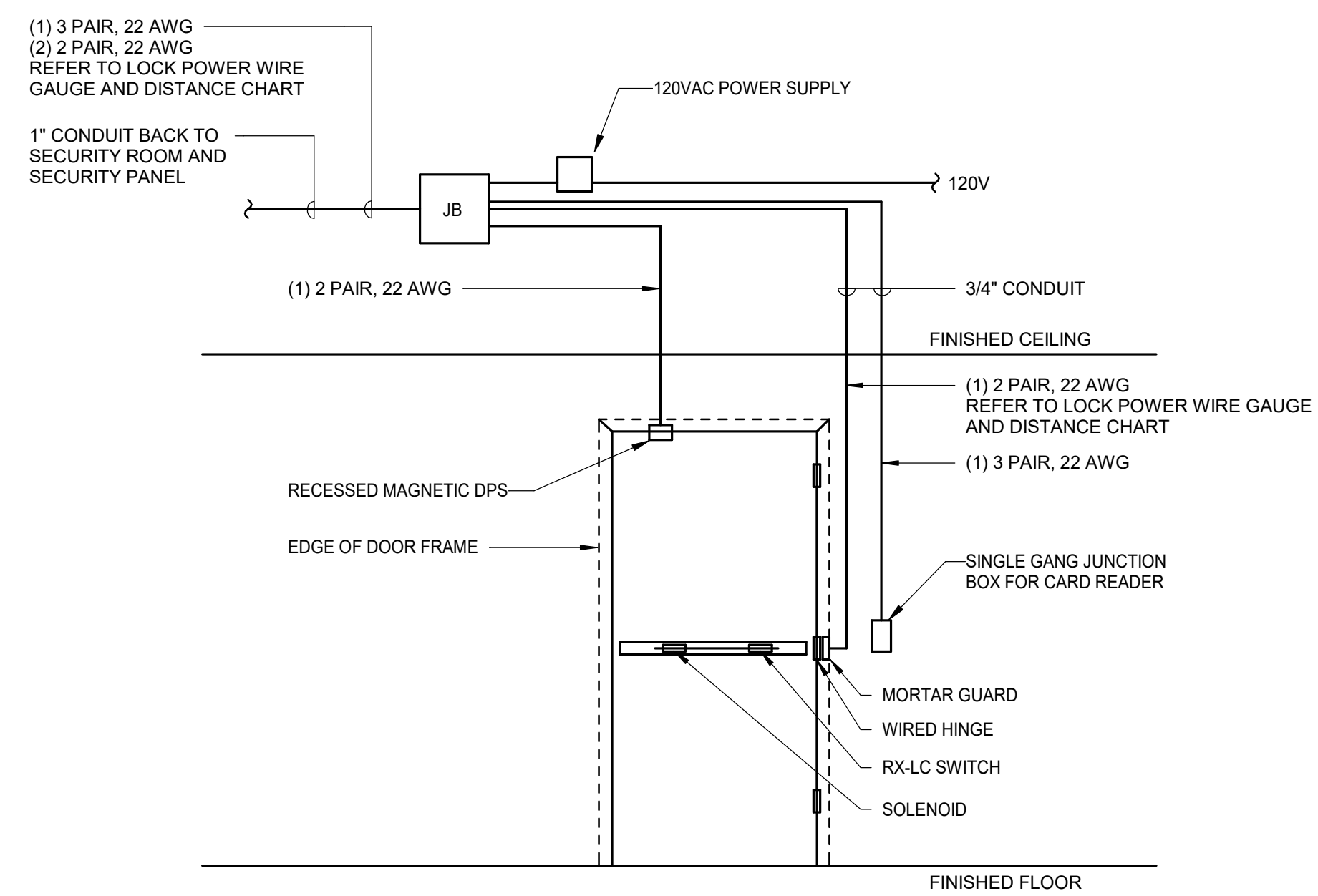
DOORS SHALL OPEN WHEN EITHER INTERIOR OR EXTERIOR BUTTONS ARE ACTIVATED.

DOORS IN CARD OR PIN OR CARD MODE.

THE EXTERIOR BUTTON SHALL NOT WORK UNTIL A VALID ACCESS CARD IS PRESENTED AND THE DOOR UNLOCKS.

THE INTERIOR BUTTON SHALL ACTIVATE THE LOCK POWER SUPPLY AND UNLOCK THE DOOR AND THEN OPEN THE DOOR.

ACTUATOR/CARD ACCESS INTEGRATION WIRING EXAMPLES INCLUDED IN UNCW ACCESS CONTROL INSTALLATION STANDARDS.

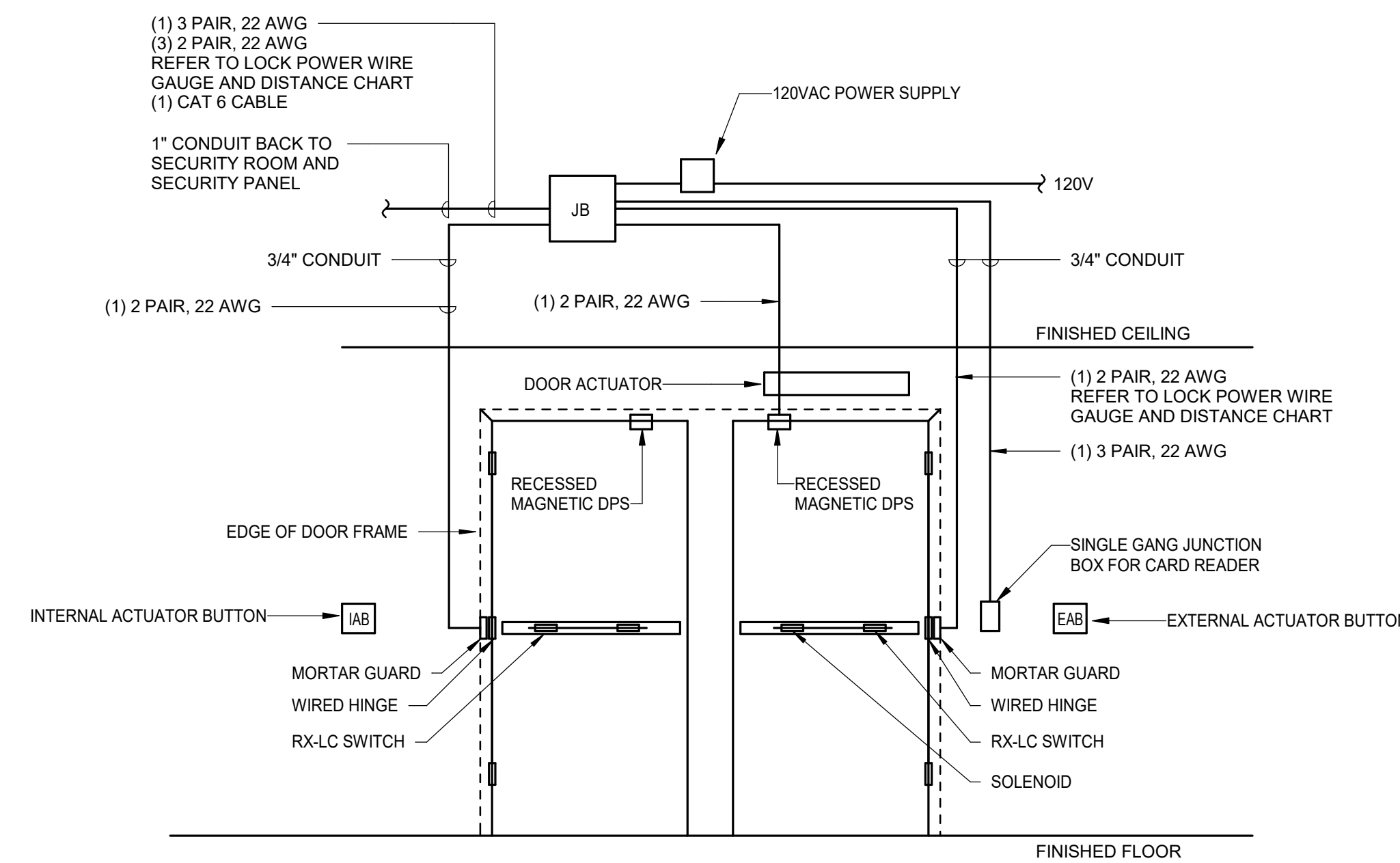


- NOTES**
1. DOOR ORIENTATION, OUTSIDE LOOKING IN.
  2. (JB) CABLE JUNCTION BOX
  3. ALL HARDWARE SHALL COORDINATE WITH HARDWARE SCHEDULE.
  4. ALL CABLE, CONDUIT AND HARDWARE SHALL BE INSTALLED BY CONTRACTOR.
  5. POWER SUPPLY AND ACCESS CONTROLLER MUST BE LOCATED IN SECURITY ROOM.
  6. CONTRACTOR SHALL MAKE ALL WIRE TERMINATIONS IN ACCORDANCE WITH UNCW ACCESS CONTROL STANDARDS. WIRE SPLICES ARE NOT PERMITTED.

| <b>LOCK POWER WIRE GAUGE AND DISTANCE CHART</b> |            |                     |
|---|------------|---------------------|
| <b>LOCK</b>                                     | <b>AWG</b> | <b>MAX DISTANCE</b> |
| ELECTRIC LATCH RETRACTION                       | 12         | 180 FEET            |
| QUIET ELECTRIC LATCH RETRACTION                 | 12         | 300 FEET            |
| MORTISE/STRIKE                                  | 16         | 300 FEET            |

### 3 TYPICAL INSTALLATION FOR A SINGLE DOOR WITH HANDICAP OPENER W/MAGNET DPS

SCALE: NOT TO SCALE



- NOTES**
1. DOOR ORIENTATION, OUTSIDE LOOKING IN.
  2. (JB) CABLING JUNCTION BOX.
  3. ALL HARDWARE SHALL COORDINATE WITH HARDWARE SCHEDULE.
  4. ALL CABLE, CONDUIT AND HARDWARE SHALL BE INSTALLED BY CONTRACTOR.
  5. POWER SUPPLY AND ACCESS CONTROLLER MUST BE LOCATED IN SECURITY ROOM.
  6. CONTRACTOR SHALL MAKE ALL WIRE TERMINATIONS IN ACCORDANCE WITH UNDER CAB ACCESS CONTROL STANDARDS. WIRE SPLICES ARE NOT PERMITTED INJAB AND EAB INTERIOR AND EXTERIOR ACTUATOR BUTTON, DOUBLE GANG BOXES WITH 3/4" CONDUIT. INSTALLED AND WIRED BY CONTRACTOR PER MANUFACTURER STANDARDS.

| <b>LOCK POWER WIRE GAUGE AND DISTANCE CHART</b> |            |                     |
|---|------------|---------------------|
| <b>LOCK</b>                                     | <b>AWG</b> | <b>MAX DISTANCE</b> |
| ELECTRIC LATCH RETRACTION                       | 12         | 180 FEET            |
| QUIET ELECTRIC LATCH RETRACTION                 | 12         | 300 FEET            |
| MORTISE/STRIKE                                  | 16         | 300 FEET            |

### ACTUATOR SEQUENCE OF OPERATION

DOORS IN UNLOCK MODE.

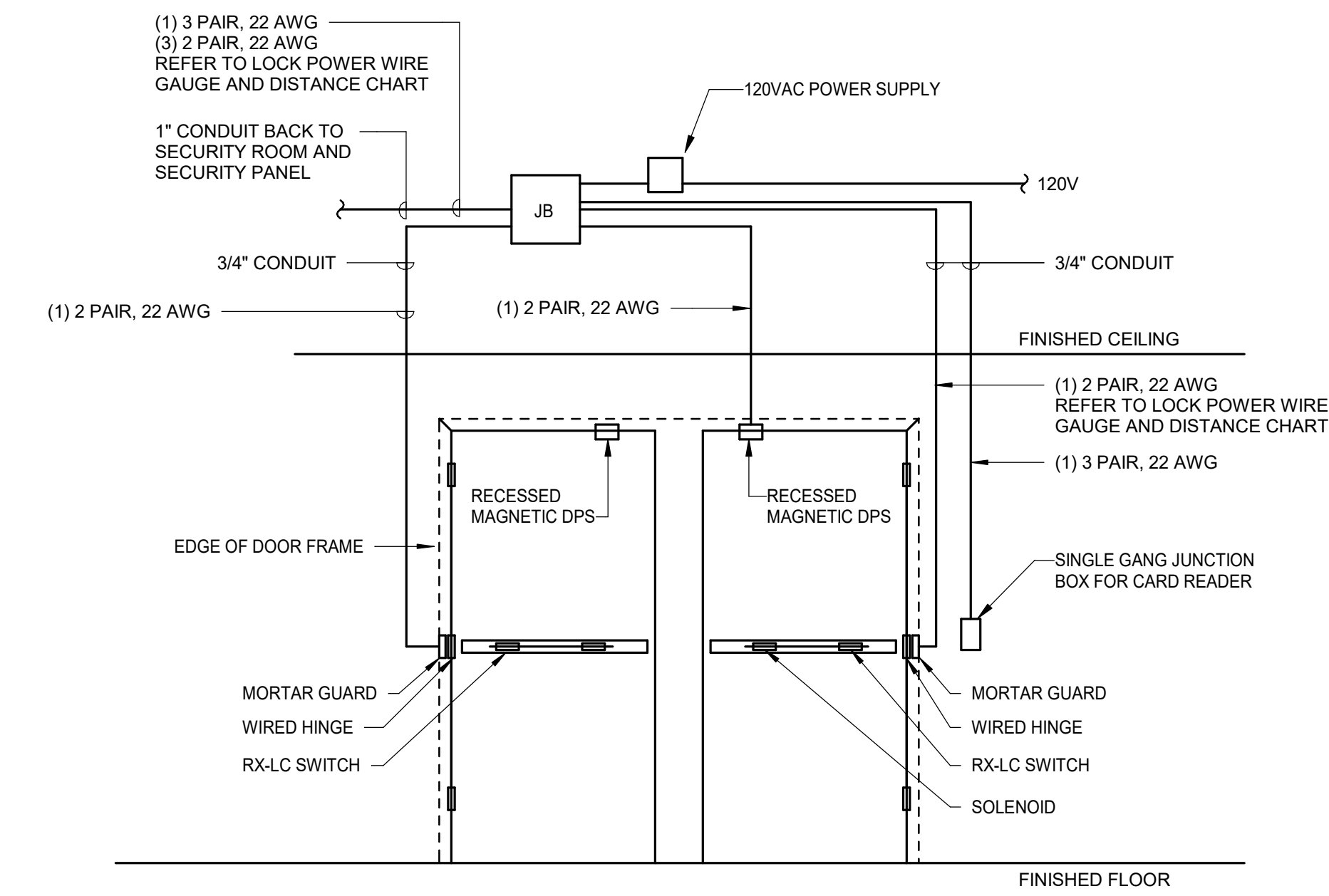
DOORS SHALL OPEN WHEN EITHER INTERIOR OR EXTERIOR BUTTONS ARE ACTIVATED.

DOORS IN CARD OR PIN OR CARD MODE.

THE EXTERIOR BUTTON SHALL NOT WORK UNTIL A VALID ACCESS CARD IS PRESENTED AND THE DOOR UNLOCKS.

THE INTERIOR BUTTON SHALL ACTIVATE THE LOCK POWER SUPPLY AND UNLOCK THE DOOR AND THEN OPEN THE DOOR.

ACTUATOR/CARD ACCESS INTEGRATION WIRING EXAMPLES INCLUDED IN UNCW ACCESS CONTROL INSTALLATION STANDARDS.



- NOTES**
1. DOOR ORIENTATION, OUTSIDE LOOKING IN.
  2. (JB) CABLING JUNCTION BOX.
  3. ALL HARDWARE SHALL COORDINATE WITH HARDWARE SCHEDULE.
  4. ALL CABLE, CONDUIT AND HARDWARE SHALL BE INSTALLED BY CONTRACTOR.
  5. POWER SUPPLY AND ACCESS CONTROLLER MUST BE LOCATED IN SECURITY ROOM.
  6. CONTRACTOR SHALL MAKE ALL WIRE TERMINATIONS IN ACCORDANCE WITH UNCW ACCESS CONTROL STANDARDS. WIRE SPLICES ARE NOT PERMITTED.

| <b>LOCK POWER WIRE GAUGE AND DISTANCE CHART</b> |            |                     |
|---|------------|---------------------|
| <b>LOCK</b>                                     | <b>AWG</b> | <b>MAX DISTANCE</b> |
| ELECTRIC LATCH RETRACTION                       | 12         | 180 FEET            |
| QUIET ELECTRIC LATCH RETRACTION                 | 12         | 300 FEET            |
| MORTISE/STRIKE                                  | 16         | 300 FEET            |

## NOTES

1. DOOR ORIENTATION, OUTSIDE LOOKING IN.
2. (JB) CABLING JUNCTION BOX.
3. ALL HARDWARE SHALL COORDINATE WITH HARDWARE SCHEDULE.
4. ALL CABLE, CONDUIT AND HARDWARE SHALL BE INSTALLED BY CONTRACTOR.
5. POWER SUPPLY AND ACCESS CONTROLLER MUST BE LOCATED IN SECURITY ROOM.
6. CONTRACTOR SHALL MAKE ALL WIRE TERMINATIONS IN ACCORDANCE WITH UNCW ACCESS CONTROL STANDARDS. WIRE SPLICES ARE NOT PERMITTED.

| <u>LOCK POWER WIRE GAUGE AND DISTANCE CHART</u> |            |                     |
|---|------------|---------------------|
| <u>LOCK</u>                                     | <u>AWG</u> | <u>MAX DISTANCE</u> |

#### 4 TYPICAL INSTALLATION FOR A DOUBLE DOOR W/HANDICAP OPENER WITH MAGNET DPS

SCALE: NOT TO SCALE

**2 TYPICAL INSTALLATION FOR A DOUBLE DOOR WITH A MAGNET DPS**  
SCALE: NOT TO SCALE

SCALE: NOT TO SCALE





UNCW  
5162 RANDALL DRIVE  
WILMINGTON, NC  
SCO ID: 18-19656-02C  
LS3P PROJECT: 7202-19798

### PACKAGE C - BID DOCUMENTS

