

BID PACKAGE NO. 3

PHASE III ATHLETICS–PHYSICAL SCIENCE CENTER TECHNOLOGY

BULLITT COUNTY PUBLIC SCHOOLS
BG 25–145

ska#2023–50.1

100% CONSTRUCTION DOCUMENTS - FOR BOARD REVIEW
MAY 09, 2025

PROJECT TEAM:

ARCHITECT:

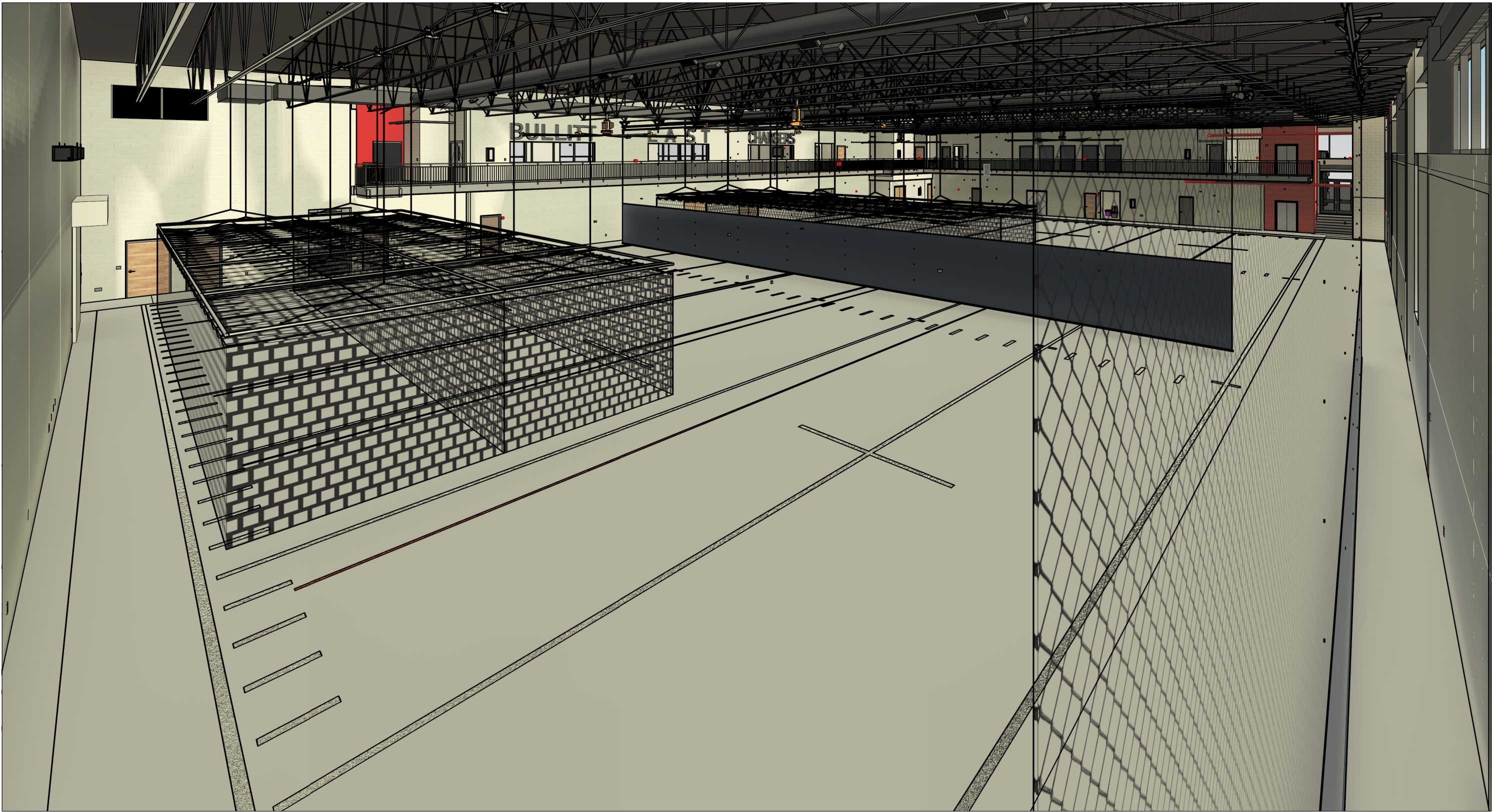
studio kremerarchitects
1231 S Shelby St
Louisville, KY 40203
502.499.1100
contact: Cate Noble Ward, AIA

OWNER:

Bullitt County Public Schools
1040 Highway 44 East
Shepherdsville, KY 40165
502.869.8000
contact: Danny Clemens, Director of Facilities

MEP ENGINEER:

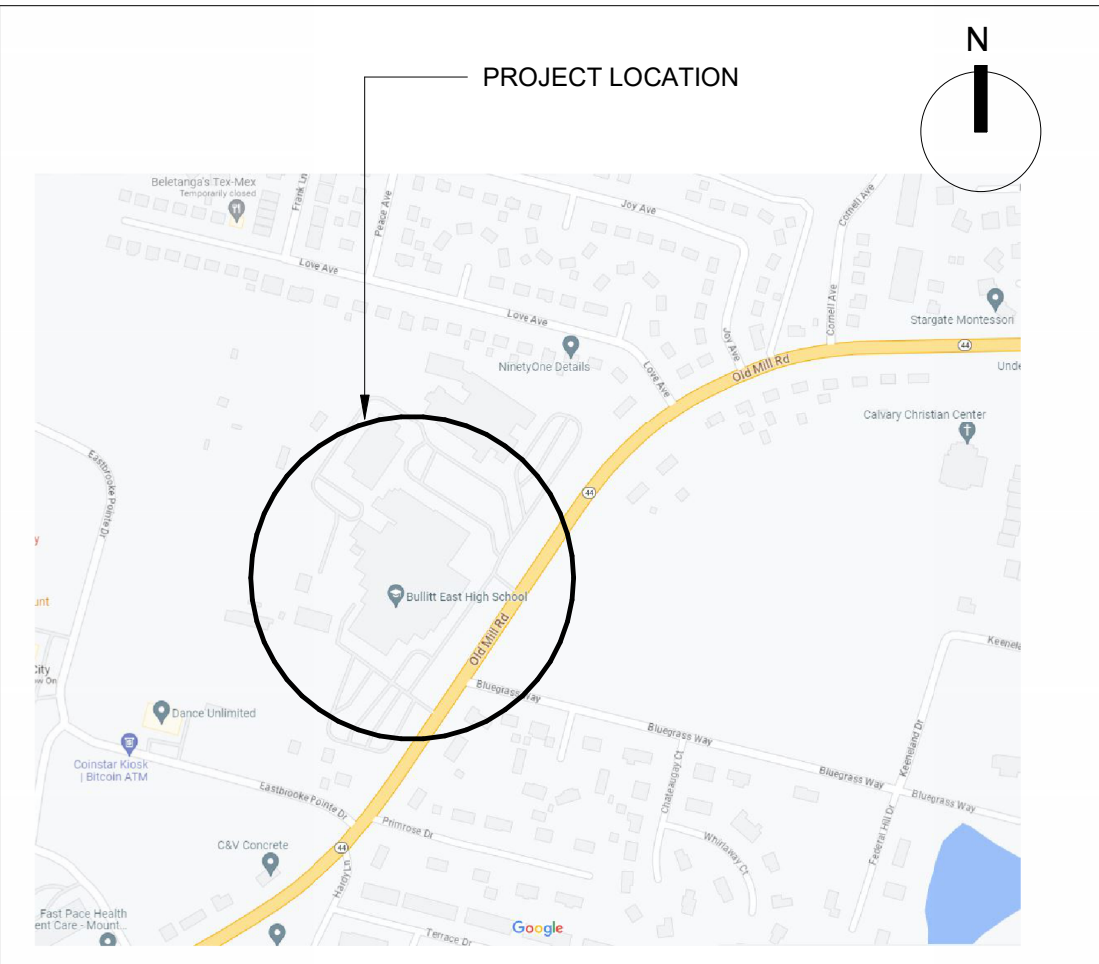
CMTA, Inc.
10411 Meeting Street
Prospect, KY 40059
502.326.3085
contact: Ryan Harvey, PE



CODE INFORMATION:

BASED UPON 2018 KENTUCKY BUILDING CODE
USE GROUP: A-3 ASSEMBLY
CONSTRUCTION TYPE: 2B | FULLY SPRINKLED
*REFER TO G1 SERIES FOR LIFE SAFETY PLANS AND ADDITIONAL CODE INFORMATION.

PROJECT LOCATION



LIST OF DRAWINGS:

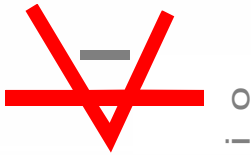
GENERAL TECHNOLOGY BCHS

GT.00 BCHS BID PACKAGE NO. 3 - BCHS - PHYSICAL SCIENCE TECHNOLOGY

TECHNOLOGY BCHS

T1.00 FIELD HOUSE FLOOR PLAN - TECHNOLOGY LEGEND
T1.11 BCHS FIELD HOUSE FLOOR PLAN - BULLITT CENTRAL - LEVEL 1 - TECHNOLOGY
T1.12 BCHS FIELD HOUSE FLOOR PLAN - BULLITT CENTRAL - LEVEL 2 - TECHNOLOGY
T3.0 Electrical Details
T3.1 Electrical Details

100% CONSTRUCTION DOCUMENTS – FOR BOARD REVIEW



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BID PACKAGE NO. 3 – BCHS –
PHYSICAL SCIENCE TECHNOLOGY
PHASE III | PHYSICAL SCIENCE CENTER
BULLITT COUNTY PUBLIC SCHOOLS
BG 25-145

DATE : 05.09.2025
DRAWN BY : CNW
CHECKED BY : SKA
REVISIONS :

2023–50.1

GT.00
BCHS

III | PHYSICAL SCIENCE
BULLITT COUNTY PUBLIC SCHOOLS
BG 25-145

 PULL BOX DETAIL

NO SCALE

GENERAL NOTES (POWER/SYSTEMS):

REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.

CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIDE CONDUIT AS REQUIRED PER NEC 300.7(T) AND ANNEX C. MULTIPLE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.

IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING. IN HEALTHCARE FACILITIES, ENGRAVE EMERGENCY DEVICE COVERPLATES IN PATIENT CARE AREAS. MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.

RECEPTACLES THAT ARE CONTROLLED BY AN AUTOMATIC MEANS SUCH AS OCCUPANCY SENSOR OR ENERGY MANAGEMENT SYSTEM SHALL BE MARKED IN ACCORDANCE WITH NEC 406.3(E).

LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS OR THROUGH ACCESS/MAINTENANCE CLEARANCES OF EQUIPMENT BY OTHER TRADES.

REFER TO "SYSTEM INSTALLATION MATRIX" (ON SYSTEMS LEGEND SHEET) AND SPECIFICATIONS FOR CONTRACTOR REQUIREMENTS OF EACH SYSTEM.

THE CONTRACTOR SHALL ROUTE ALL "SYSTEM CONDUIT STUB-UPS" TO THE NEAREST CORRIDOR CABLING PATH (SEE "STUB-UP" DETAILS). REFER TO CABLING PATH INSTALLATION DETAIL FOR ADDITIONAL REQUIREMENTS.

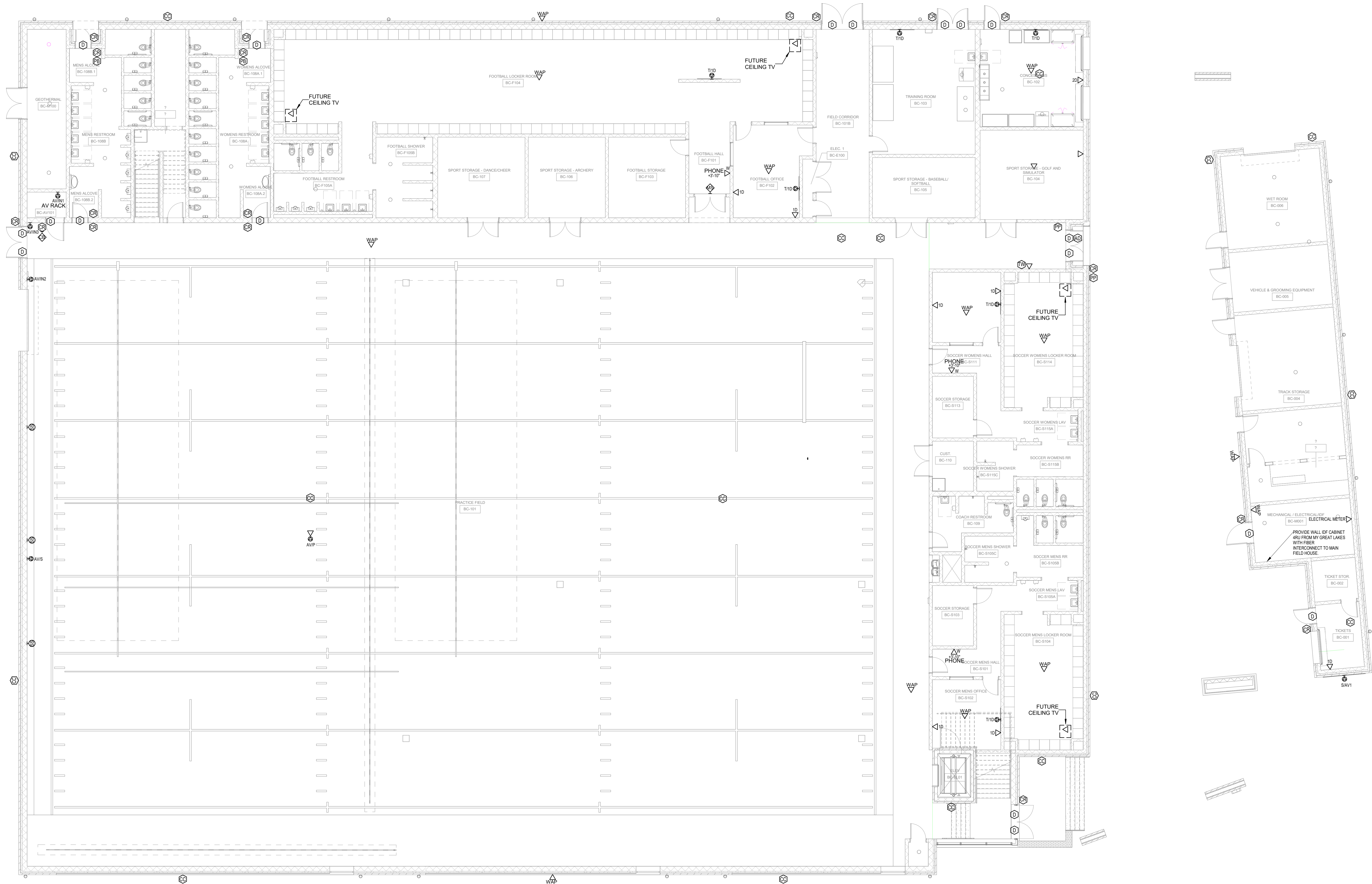
CONTRACTOR SHALL PAINT ALL SYSTEMS CONDUIT STUB-UPS LIGHT BLUE FOR SYSTEMS CABLING INTO THE CORRIDOR CABLING PATH. PROVIDE PULL STRINGS IN ALL NEW CONDUIT RUNS FOR SYSTEM CABLING INSTALLATION.

CCTV DEVICE ROUGH-INS AT EXTERIOR WALL ARE TO BE NIPPLES WITH LENGTH OF RACEWAY AS REQUIRED CUT FLUSH WITH EXTERIOR WALL TO ALLOW FOR OWNER TO MOUNT CCTV CAMERA OVER CONDUIT. CONDUIT TO BE SUPPORT BY INTERIOR JUNCTION BOX FASTENED TO BUILDING. PENETRATION AND CONDUIT SHALL BE WEATHER SEALED.

DEVICE ELEVATIONS ARE TO BE CONFIRMED PRIOR TO ROUGH-IN.

ALL ELECTRIC WATER COOLERS (EWC'S) TO BE PROVIDED WITH A GFCI TYPE CIRCUIT BREAKER.

KEYNOTES:



1

BULLITT CENTRAL FIRST FLOOR PLAN - TECHNOLOGY

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

100% CONSTRUCTION DOCUMENTS

FIELD HOUSE FLOOR PLAN - BULLITT CENTRAL - LEVEL 1 - TECHNOLOGY

PHASE III | PHYSICAL SCIENCE CENTER

BULLITT COUNTY PUBLIC SCHOOLS

BC# 25-145

DATE : 05.09.2025

DRAWN BY : CMTA

CHECKED BY : CMTA

REVISIONS :

2023-50.1

T1.11

BCHS

CMTA

A LEGENCE Company

15411 Harding Street | Louisville, KY 40299 | (502) 302-3885 | cmta.com

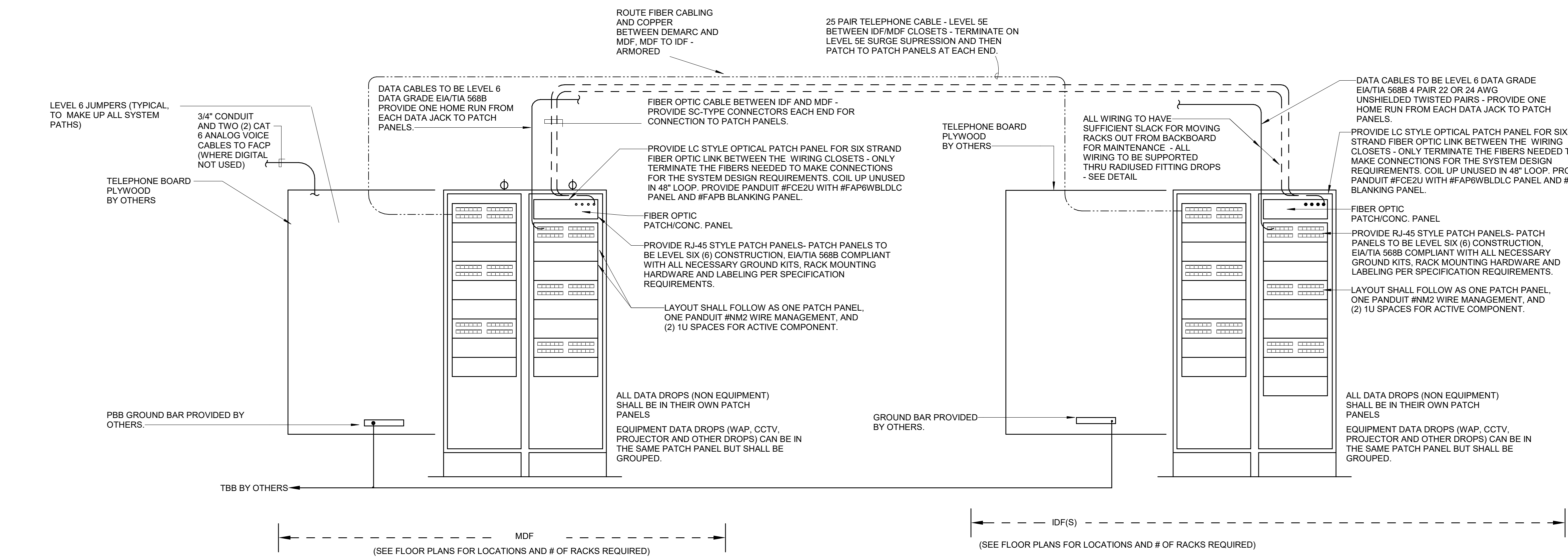
BC

MOVING FORWARD

studio kremer architects

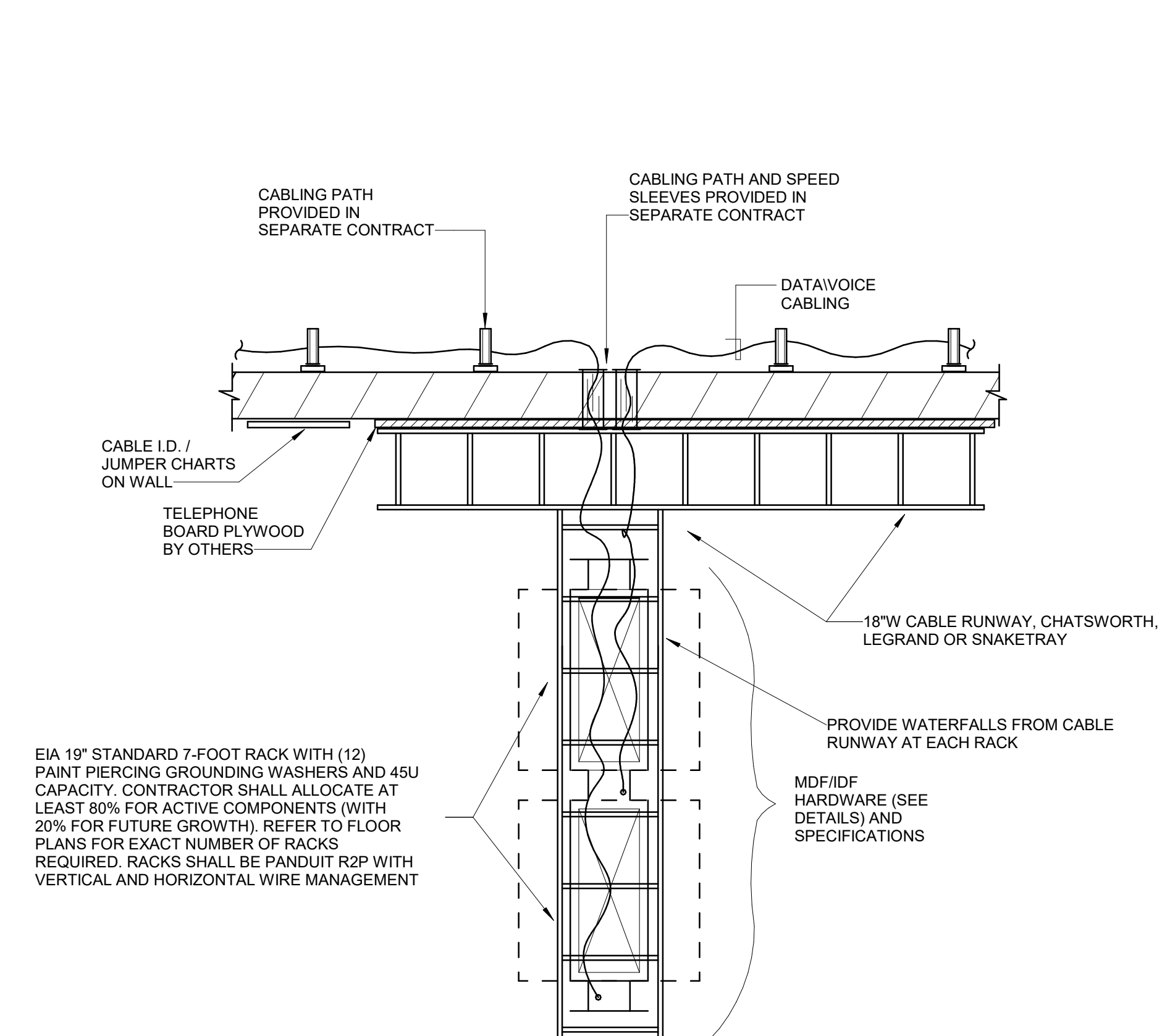
1231 S Shelby St. Louisville, KY 40203

TEL 502.499.1100 FAX 502.499.1101

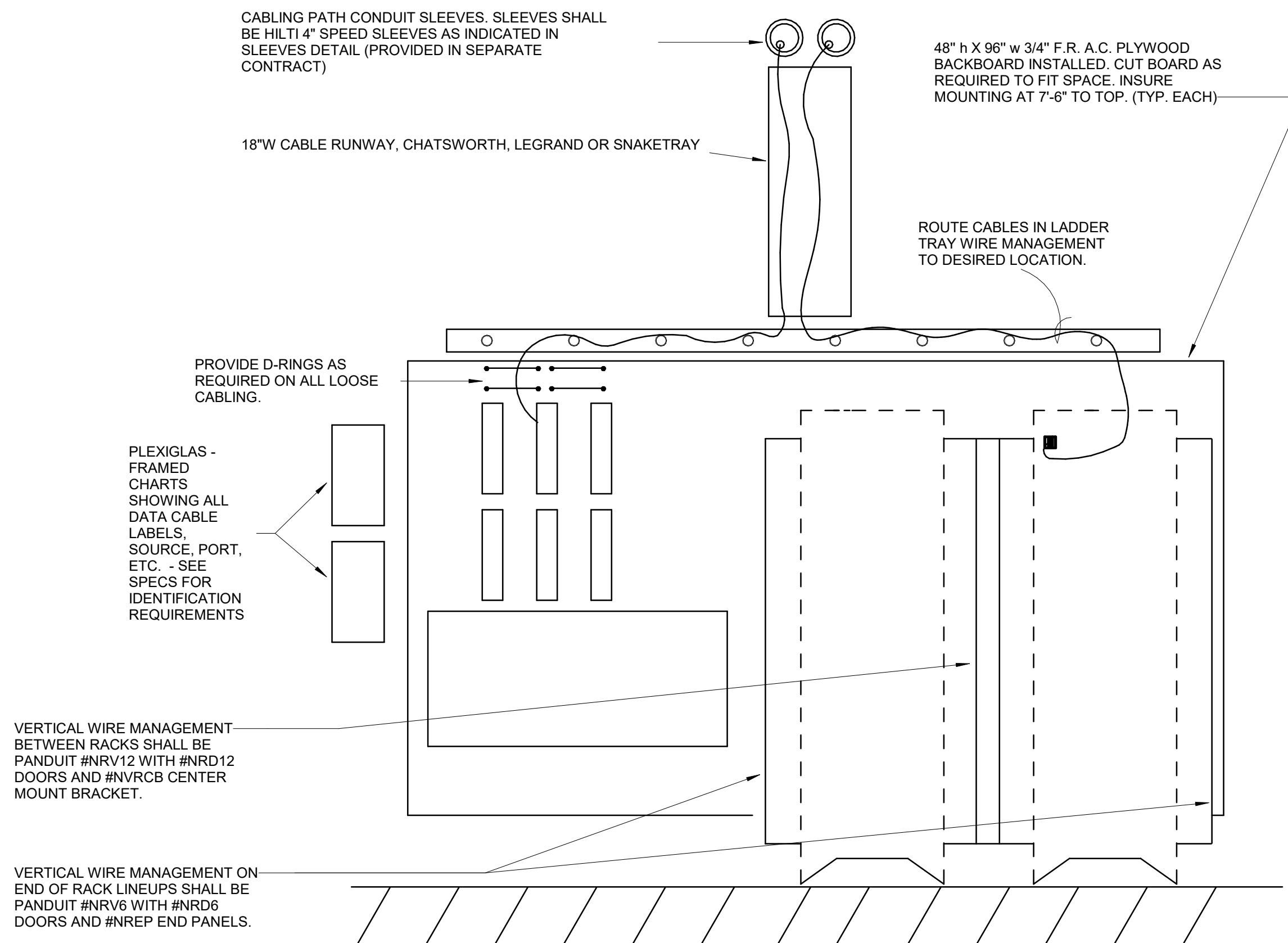


DISTRIBUTION FRAME INTERCONNECTION AND SCHEMATIC LAYOUT
NO SCALE

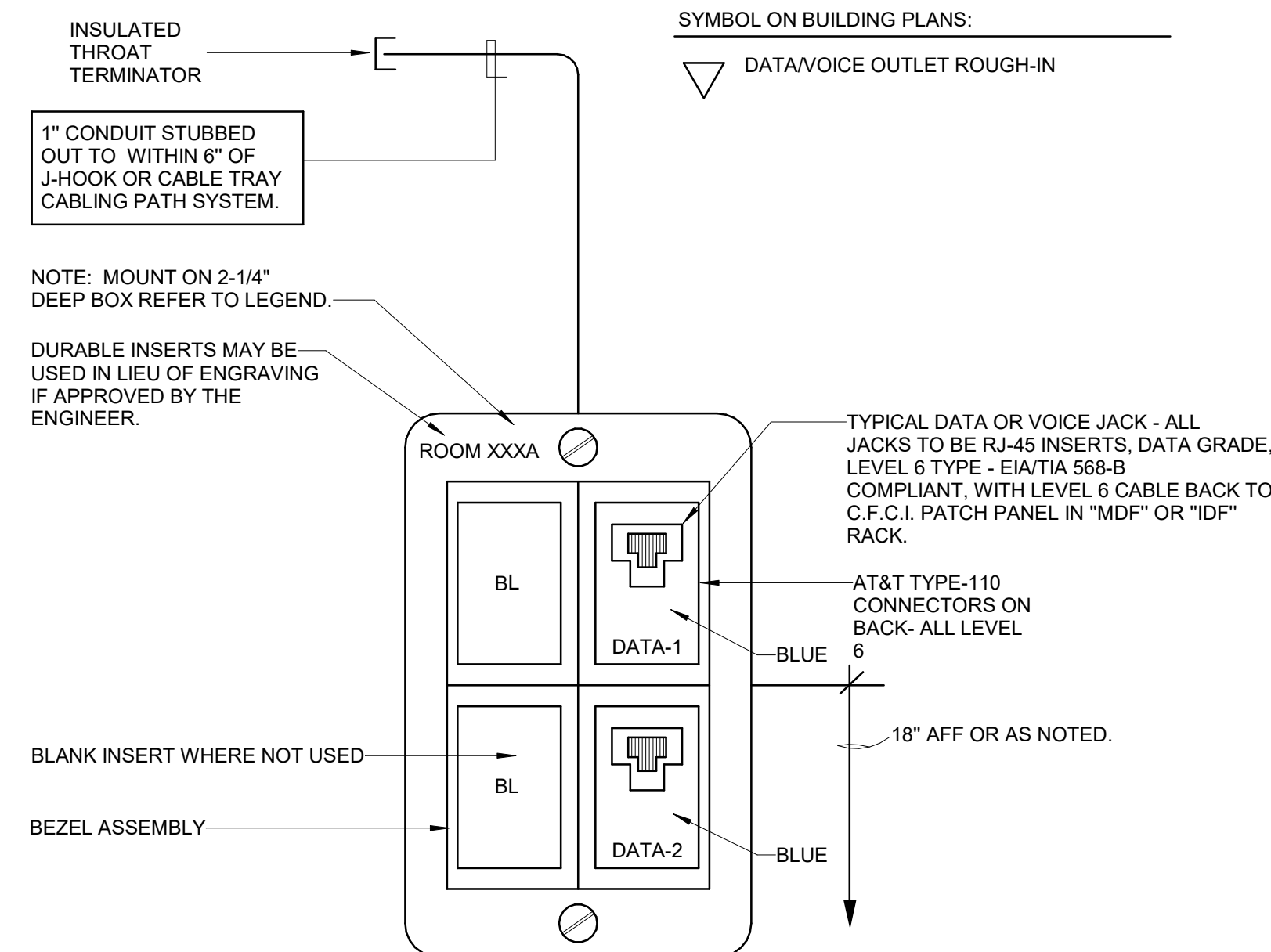
- DATA SYSTEM SCHEMATIC NOTES:**
- PANDUIT COMPANY PRODUCTS SHALL BE USED FOR PUNCH-DOWN BLOCKS, PATCH PANELS, LEVEL 6-6 CONNECTORS, ETC. - NO SUBSTITUTIONS UNLESS ACCEPTED BY OWNER AND ENGINEER. REFER TO SPECIFICATIONS.
 - ALL MULTIPAIR CABLES SHALL BE LEVEL 6E. IF MORE THAN 25 PAIR, USE MULTIPLE 25 PAIR CABLES AS REQUIRED.
 - CONTRACTOR SHALL PROVIDE (2) FULL SIZE SETS OF "TECHNOLOGY" DRAWINGS CONTAINING ALL LABELLED DATA/VOICE OUTLET LOCATIONS WITH "SOFT" COPY IN 1/8" SCALE AUTOCAD DRAWINGS TO BE GIVEN TO OWNER.
 - REFER TO FLOOR PLANS FOR RACK LAYOUTS IN INDIVIDUAL CLOSETS.
 - NUMBERING AND LABELING TO BE PER FINAL ROOM NUMBERS, NOT ROOM NUMBERS INCLUDED IN DRAWINGS.
 - CONTRACTOR SHALL COORDINATE WITH OWNER BEFORE FINAL PLACEMENT OF MDF/IDF RACKS



DISTRIBUTION FRAME PLAN VIEW DETAIL
NO SCALE



DISTRIBUTION FRAME ELEVATION VIEW DETAIL
NO SCALE



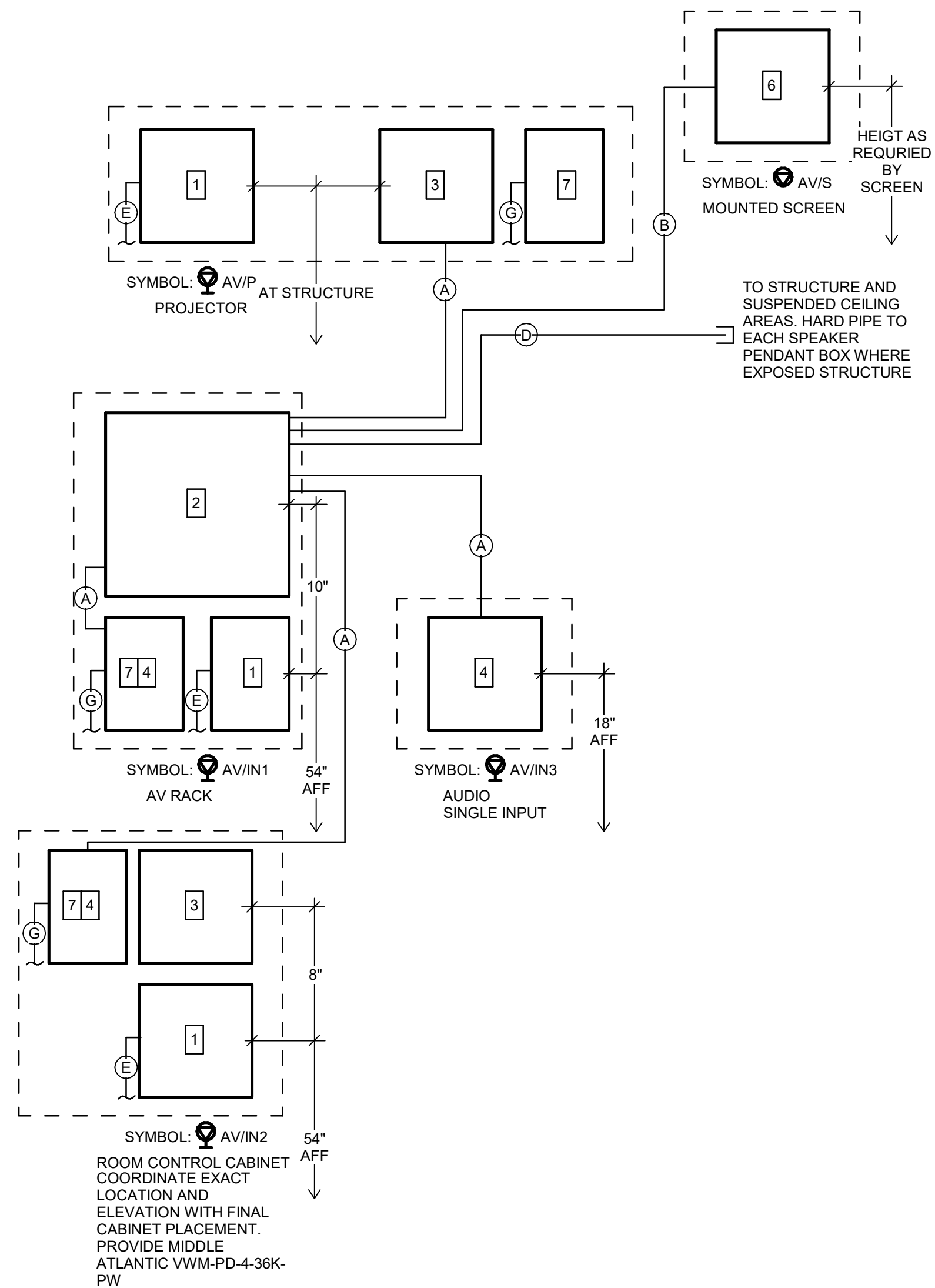
DATA WALLPLATE DETAIL
NO SCALE

- CATEGORY CABLE SYMBOLS ON BUILDING PLANS:**
- DATA AND/OR VOICE OUTLET : NUMBER BESIDE OUTLET INDICATES NUMBER OF CAT6 DATA/VOICE JACKS TO INSTALL. IF NO NUMBER IS INDICATED, THERE SHALL BE TWO DATA JACKS PER SPECIFICATIONS.
 - PROJECTOR OUTLET (1) CAT6 DATA CONNECTION PER SPECIFICATIONS. PROVIDE WITH 10'-0" SERVICE LOOP ON J-HOOK ABOVE ACCESSIBLE CEILING.
 - VOICE WALL TELEPHONE OUTLET. PROVIDE (1) VOICE WALL JACK AND PLATE AS REQUIRED PER SPECIFICATIONS.
 - WIRELESS ACCESS POINT. PROVIDE (2) CAT 6A DATA CABLES WITH 15'-0" SERVICE LOOP ABOVE CEILING ON J-HOOK TERMINATED ON PANDUIT MINI COM BOX WITH RJ45 JACK. FINAL PLACEMENT OF SURFACE OUTLET AND ACCESS POINT TO BE PROVIDED BY OWNER. CONTRACTOR IS RESPONSIBLE FOR PATCH CABLE FROM ACCESS POINT TO DATA DROP AND DATA DROP BISCUIT BOX INSTALLATION ABOVE CEILING.
 - CCTV IP SECURITY CAMERA- PROVIDE (1) CAT6A DATA CABLEING WITH 15'-0" SERVICE LOOP ABOVE CEILING ON J-HOOK TERMINATED ON A MINI COM BOX. FINAL PLACEMENT OF DEVICE TO BE PROVIDED BY OWNER.
 - INTERCOM CLASSROOM MODULE AND ZONE MODULES. PROVIDE (1) CAT6 DATA CABLE FOR INTERCOM SYSTEM. PROVIDE 15'-0" SERVICE LOOP ON J-HOOK LOCATED ON WALL.
 - WALL MOUNTED TELEVISION. PROVIDE 10' DATA JACK IN 1G BOX BEHIND TV.

CATEGORY CABLE SYMBOLS ON PLANS
NO SCALE

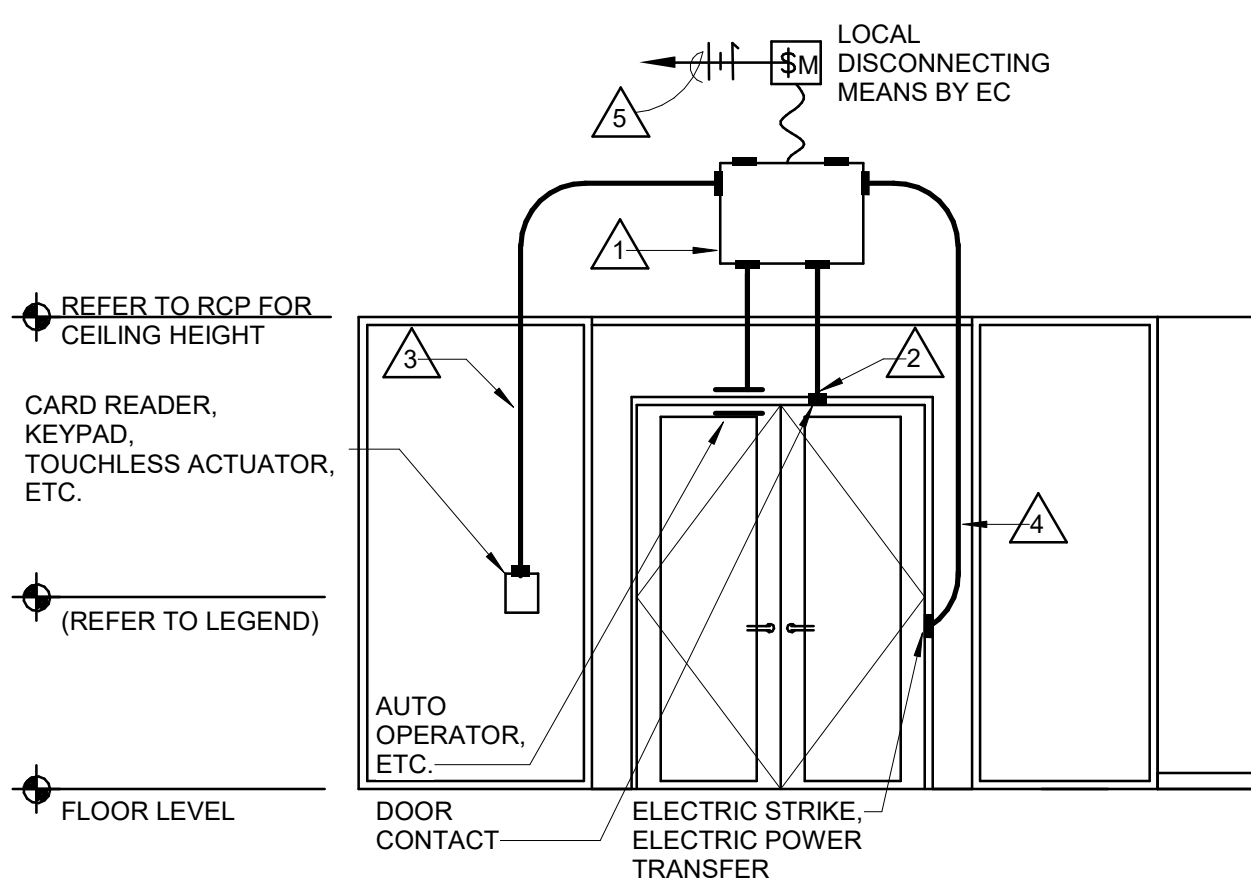
- BACBOX AND DEVICE LEGEND:**
1. RECESSED DUPLEX RECEPTACLE - POWER BY EC
 2. 6X8X4 RECESSED AV INTERCONNECT BACKBOX BY EC
 3. FUTURE AV
 4. MICROPHONE INPUT BY BP4
 5. 1G RECESSED BACKBOX HORIZONTALLY MOUNTED IN BLEACHERS WITH 1G STAINLESS STEEL COVERPLATE BY EC
 6. 2G BACBOX SURFACE MOUNTED BESIDE PROJECTOR SCREEN ABOVE CEILING WITH PLASTIC COVERPLATE BY EC
 7. 1G 1D DATA DROP - DATA BY BP4.

- CONDUIT LEGEND:**
- A. 1" EMT RACEWAY BY EC
 - B. 3/4" EMT RACEWAY BY EC
 - C. 3/4" FLEX UMBILICAL SUPPORTED ALONG TELESCOPING BLEACHERS BY EC
 - D. 1-1/4" EMT RACEWAY BY EC
 - E. RACEWAY AND POWER WIRING AS INDICATED ON FLOOR PLANS BY EC
 - F. 1" CHASE NIPPLE THROUGH BACK TO BACK BOXES BY EC
 - G. 1" EMT RACEWAY TO CABLING PATH BY EC



FIELD HOUSE AV ROUGH-IN AND CABLING SCHEMATIC

NO SCALE



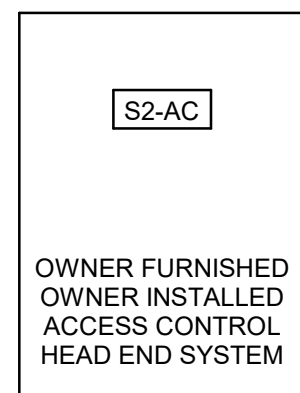
NOT ALL DEVICES INDICATED ARE REQUIRED - REFER TO DOOR HARDWARE SPECS

ACCESS CONTROL SYSTEM (TAGGED NOTES)

1. DOOR POWER SUPPLY BY OWNER AND DOOR INTERCONNECTION JUNCTION BOX ABOVE DOOR BY OTHERS. REFER TO DOOR HARDWARE SPECIFICATIONS AND FLOOR PLANS.
2. FRAME STUBOUT BY OTHERS.
3. DOOR OPERATOR SUBOUT BY OTHERS.
4. FRAME STUBOUT BY OTHERS.
5. DOOR POWER SUPPLY POWER CONNECTION BY OTHERS.

TYPICAL ACCESS CONTROLLED DOOR DETAIL

NO SCALE



AS PART OF THIS CONTRACT, PROVIDE MINIMUM 18-2 SHIELDED CABLE AND 22-8 SHIELDED CABLE PER DEVICE IN DOOR. UTILIZE PATHWAYS PROVIDED IN SEPARATE CONTRACT. ROUTE CABLING BACK TO ACCESS CONTROL HEAD END LOCATION IN MDF. WHERE EXPOSED, CABLING SHALL BE ROUTED IN CONDUIT. PROVIDE 20'-0" SERVICE LOOP AT EACH END FOR FINAL TERMINATION BY OWNER.

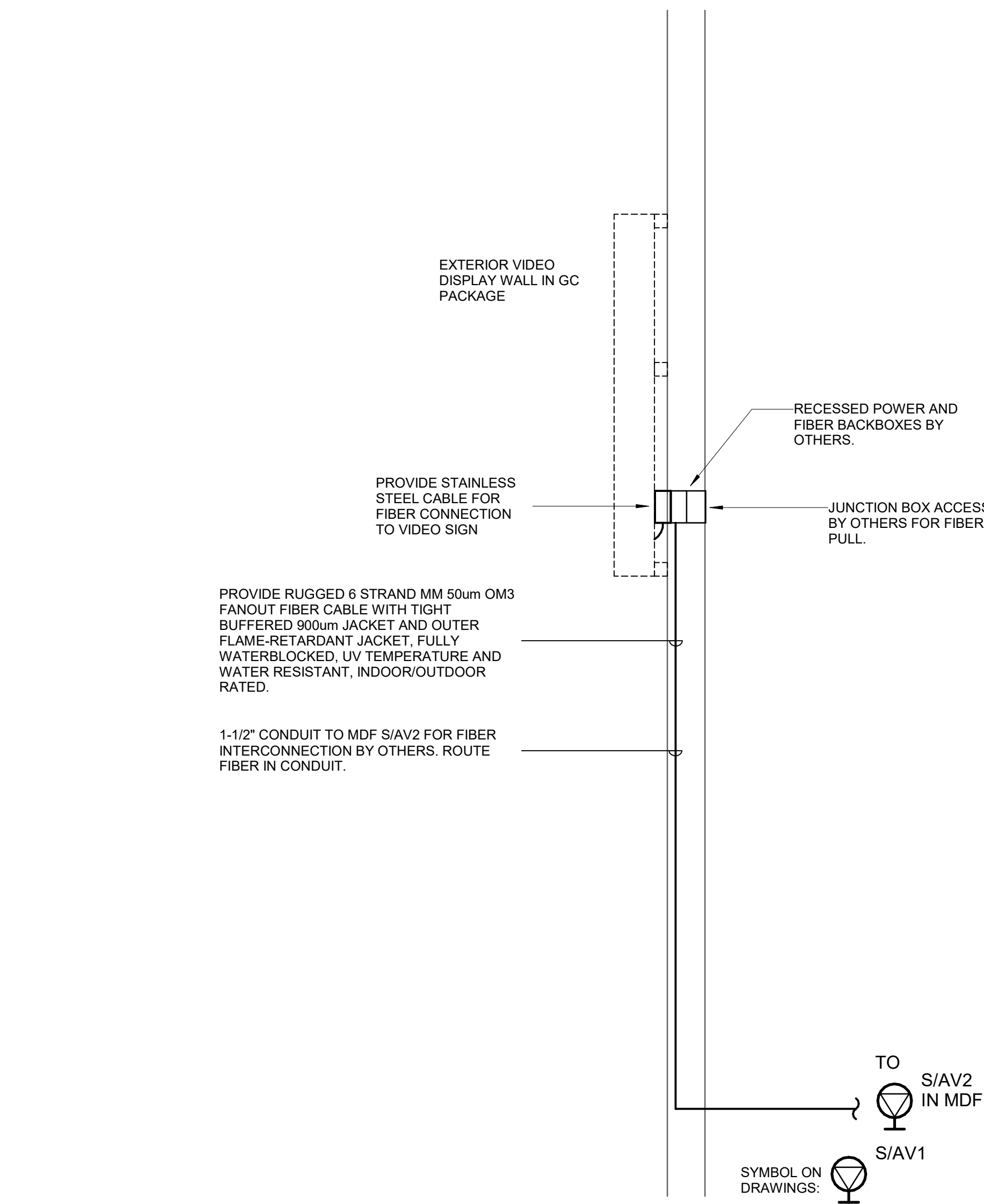
ACCESS CONTROL CABLING DETAIL

NO SCALE

ACCESS CONTROL SYSTEM (GENERAL NOTES)

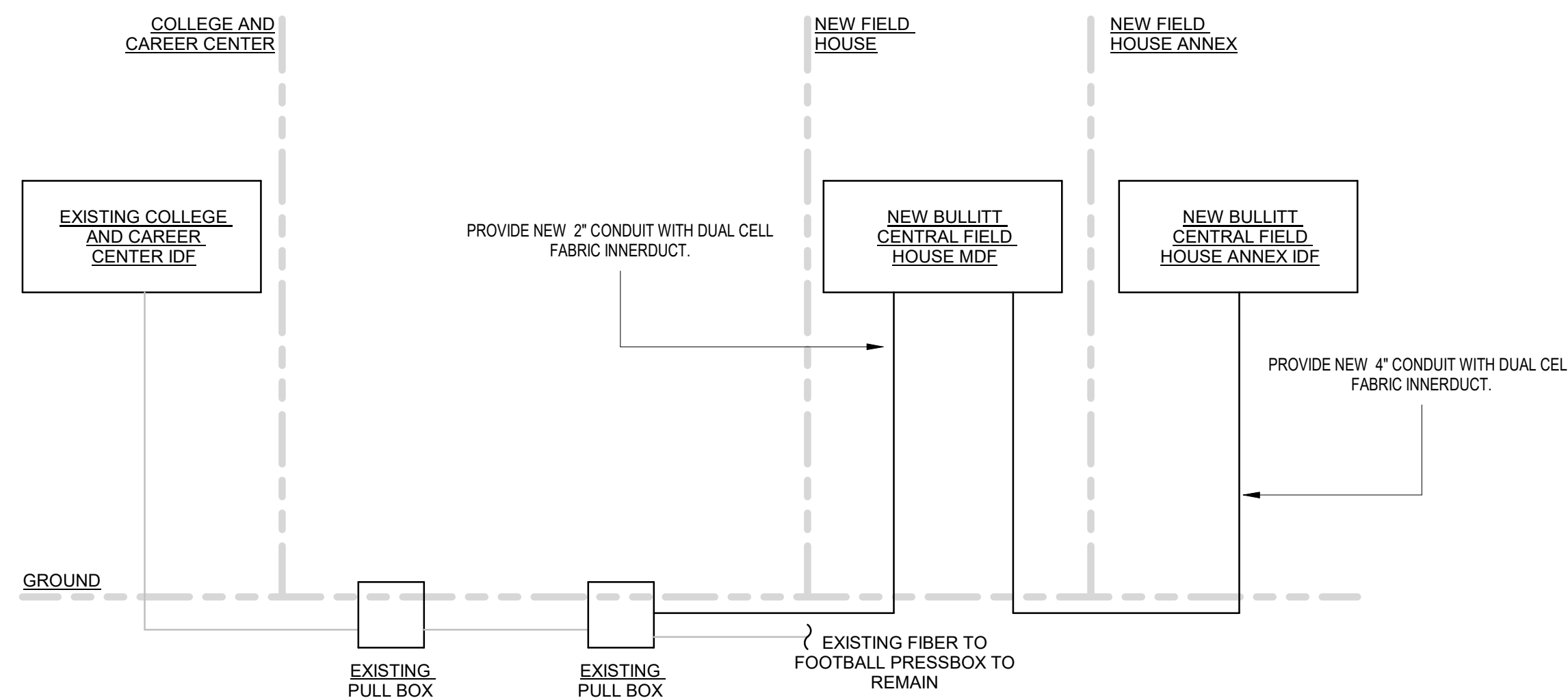
A PRECONSTRUCTION MEETING SHALL BE ARRANGED BY THE ELECTRICAL CONTRACTOR, GC, DIVISION 18 DOOR HARDWARE VENDOR AND OWNER/ENGINEER FOR COORDINATION PRIOR TO ANY INSTALLATION OF FRAMES OR ROUGH-INS THAT CONTAIN ANY LOW VOLTAGE INTEGRATION.

NO FRAMES OR ROUGH-INS ARE TO BE INSTALLED PRIOR TO THIS MEETING AND WHERE INSTALLATION OCCURS PRIOR TO THIS MEETING, ALL INSTALLATION WILL BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE, NO EXCEPTIONS.



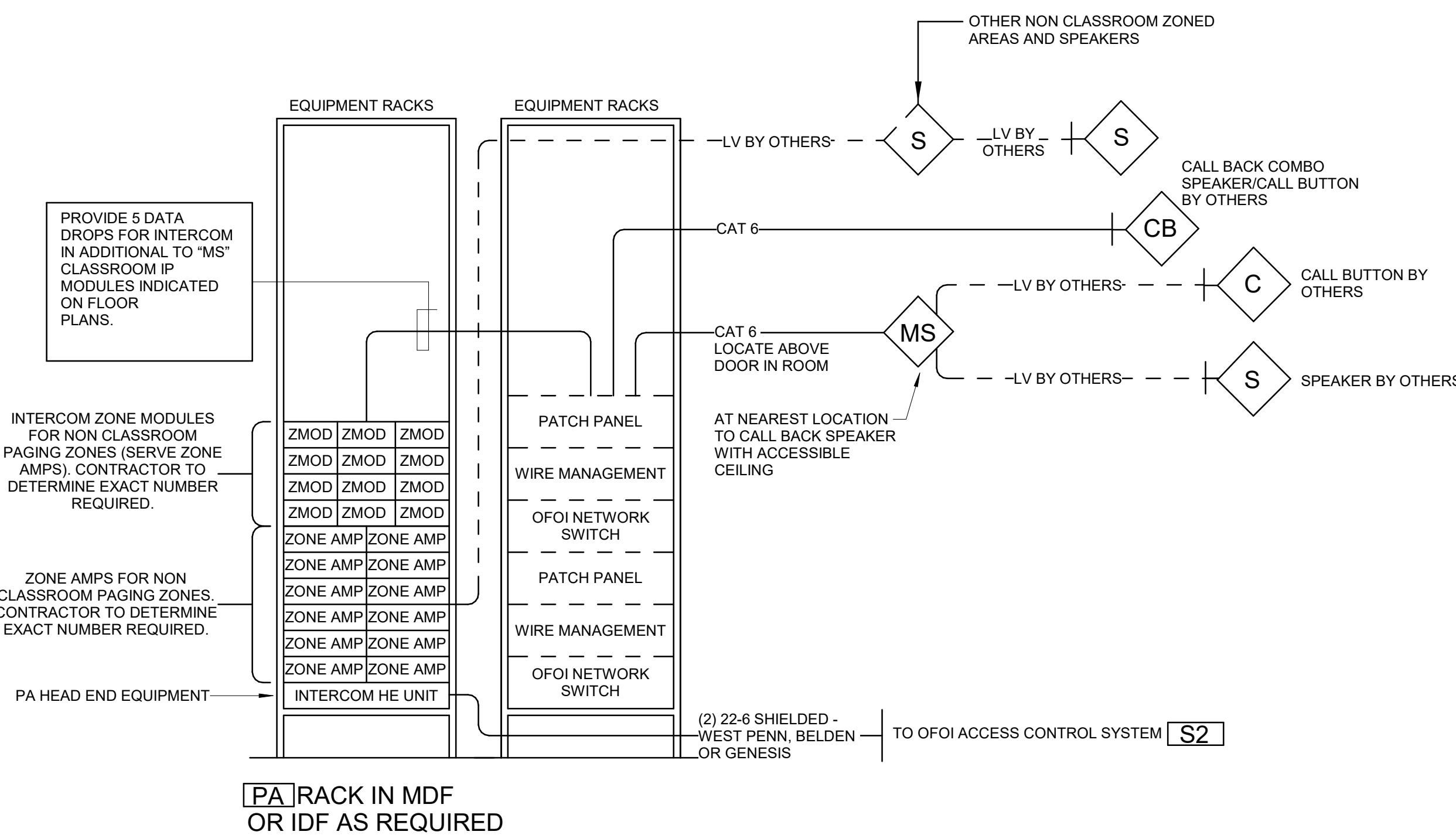
EXTERIOR VIDEO SIGN

NO SCALE



COMMUNICATIONS RISER DIAGRAM - BULLITT CENTRAL FIELD HOUSE

NO SCALE



PAGING SYSTEM INTERCONNECTION DETAIL

NO SCALE