

Iredell-Statesville Schools
WAN Connectivity - Request for Proposals (RFP)
FY 2027 E-rate Form 470 Application # 270000665

Wide Area Network (WAN) Connection For Two New Construction Schools

APPENDIX A
SCHOOL SITE PLANS AND FLOORPLANS

See the following narrative for more details of existing and proposed features of each school. There are corresponding annotations on each drawing.

Weathers Creek High School

Page 3 - PARTIAL ELECTRICAL SITE PLAN WITH PATH FOR IFO/OFO CONDUIT TO DEMARC

See the black double dashed lines between pullboxes ("PB" in green outline indicated by the narrative arrows). These are for two conduit paths buried along the southern side of Weathers Creek Way, starting at the ROW on Overcash Rd. The small inline print shows IFO (Internet Fiber Optic, presumably) and OFO (Other Fiber Optic, presumably) on each line. The path for "IFO" is expected to be for pulling WAN fiber to the demarc. Approximate distance from Overcash Road to demarc/conduit entry (small green rectangle at end of school wing) is 2,000'. Service provider shall be responsible for verifying all actual distances and if pull boxes in green and full conduit path to external MPOE and/or internal demarc are compatible and can be utilized, or else shall propose an alternate route.

See MDF closet location in the building. This corresponds to the electrical system drawing, 2nd level drawing on the next page for the Media Center "Head End". Note that the MDF and "proposed demarc point" are not adjacent. The marked demarc point may be the actual MPOE and therefore a demarc extension of approximately 180-200' may be necessary to reach the MDF. This will be clarified upon the site visit and RFP amendment posting.

Page 4 - ELECTRICAL SYSTEM SECOND LEVEL PLAN AREA C

The MDF is in the Media Center "Head End" at the drawings lower left corner, room C206. This is on the 2nd floor, but the lot is sloped so this is near grade to the left (west) side of the building. If the service provider can bring MPOE to the media center instead of demarc at the end of the wing on the previous drawing, the service provider must confirm this path via the "IFO" conduit run on this drawing and previous page siteplan with the general contractor or district staff, preferably during the scheduled site visit. Otherwise this will be clarified via the RFP amendment posting.

Parkertown Elementary School

Page 5 - SITE PLAN SHOWING POSSIBLE PATHS FOR FIBER PULL TO DEMARC

Because concrete slabs were poured more recently at this school than at WCHS, not all buildings/wings are yet constructed as of the release date of this RFP. Progress will probably be made by the time of the site visit, but there are 3 proposed paths shown in different colors from ROW (HH = handhole) to demarc, one of which is proposed by the architect in BLUE and is partially constructed, however it will require clarification by the time of the scheduled site visit. Additional paths in RED and GREEN will be considered or additional options may emerge by the end of the site visit or RFP addendum posting. Note that PURPLE boxes indicate possible MDF/demarc locations or telecom closets/rooms along the path. Potential paths (and possible plans) as of this writing include:

- A. EXISTING PARTIAL PATH A, BLUE LINES - The underground telecom 'UGT' conduit (solid BLUE lines) are installed under the slab and to outside handholes (HH). UGT #1 at the bottom from the ROW runs from outdoor

HH to room 109 adjacent to the cafeteria. UGT #2 begins in room 101 (Mezzanine Access or 2nd telecom room on this path) adjacent to the gym and runs under the slab to room 015 MDF/"preferred" demarc. The above-grade path (dotted blue line) between UGT #1 & #2 conduit exits are not yet connected. ISS district staff assume from the GC that this will be accessible via the mezzanine (not yet constructed). 'PLAN A1' would put the WAN demarc at room 015, with responsibility for maintenance to the demarc on the service provider. But an alternate 'PLAN A2' would put the WAN demarc/MPOE at room 109 instead. This is still to be determined. In either case the full install or extension via plenum/mezzanine pull and/or new conduit (winning WAN service provider may quote for install or GC may provide). More information to be made available at site visit and in the upcoming RFP amendment.

- B. POSSIBLE ALTERNATE PATH B. RED LINE: If providers determine Path A to be impractical or not workable, the district will entertain an option for a new underground conduit (solid red line) installed from the ROW to the building edge along the carpool patio edge at the building exterior shown. Demarc is preferably the same Room 015 as before or by extension from MPOE at or near exterior wall entry. Expect approximately 200'-250' from roadside ROW to building entry. Additional handhole location and/or conduit to interior at/near exterior wall edge adjoining patio or landscaping may need to be determined. ISS district staff believe concrete may not be poured for a while at this location. Service providers may ask for additional information at site visit or check the RFP amendment the day after the site visit.
- C. POSSIBLE ALTERNATE PATH C. GREEN LINE: A third pathway option might instead be new underground conduit on the opposite side of the school as PATH B, entering at or near the media center. This path is also to be determined but would likely require at least 2 handholes (HH in green) near the bus lot as shown at left in the drawing. Service provider to determine how to install from ROW to demarc in Room 027. This may hypothetically assume that the MDF moves to 027, or the district bridges this room to 015 via its own fiber run patch. Clarifications and more information to be made available at site visit and in the RFP amendment.

Page 6 - SYSTEMS PLAN (cabling assignments) - FOR ROOM # REFERENCE ONLY

This drawing is out-of-scope (for copper cabling planning), but it is made available for room number reference and to see the floorplan unobstructed by annotations. Note that no elevation drawings for illustrating mezzanine access are available at this time, but may become available by the day of the site visit or with the amendment.

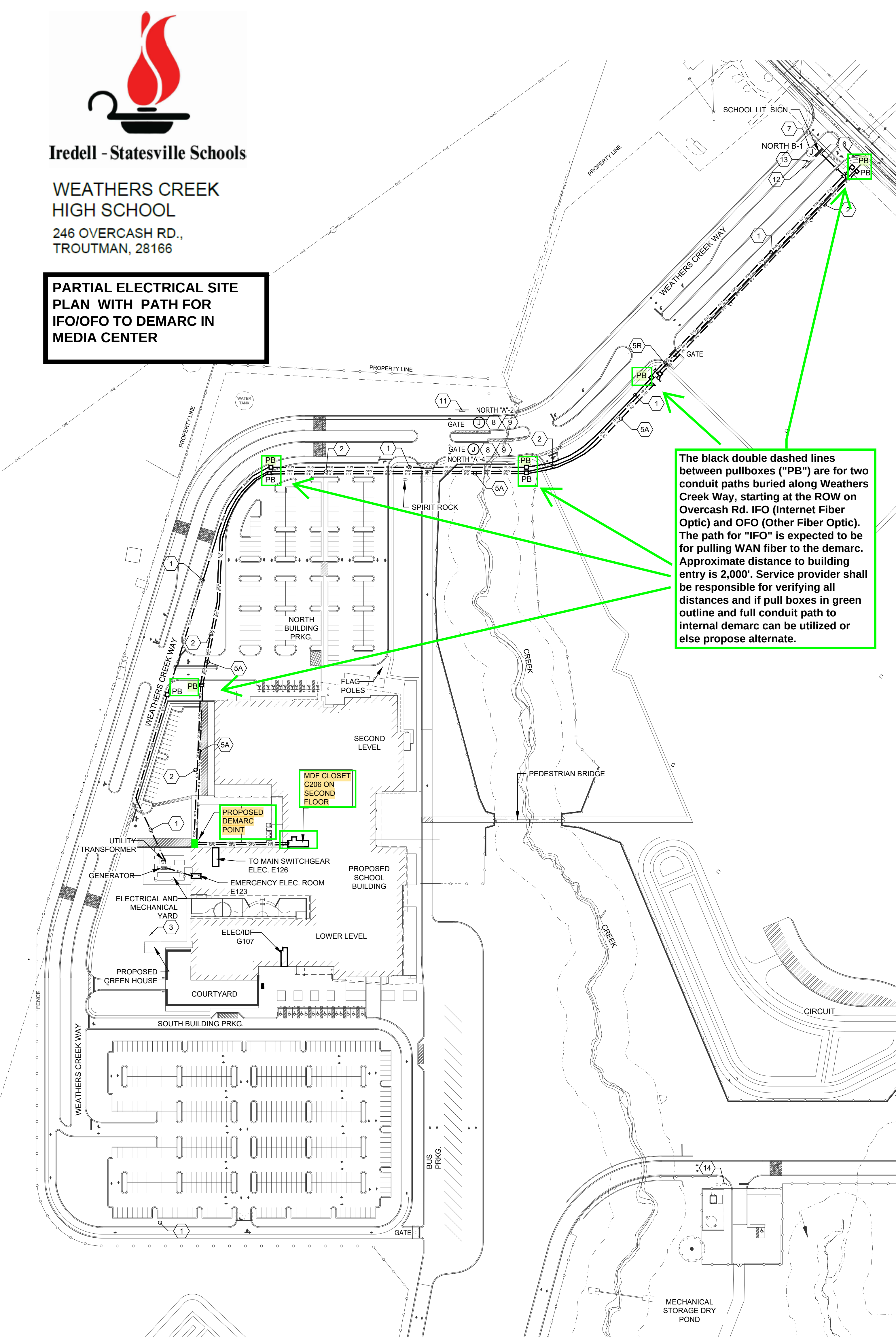


Iredell - Statesville Schools

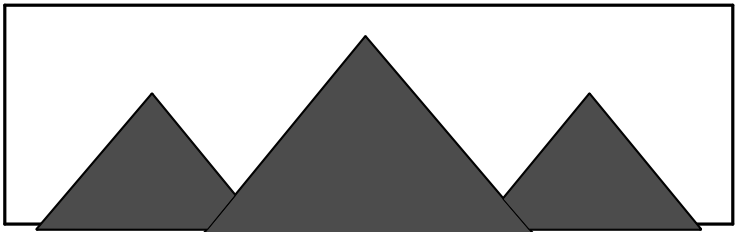
WEATHERS CREEK
HIGH SCHOOL

246 OVERCASH RD.,
TROUTMAN, 28166

PARTIAL ELECTRICAL SITE
PLAN WITH PATH FOR
IFO/OFO TO DEMARC IN
MEDIA CENTER



The black double dashed lines between pullboxes ("PB") are for two conduit paths buried along Weathers Creek Way, starting at the ROW on Overcash Rd. IFO (Internet Fiber Optic) and OFO (Other Fiber Optic). The path for "IFO" is expected to be for pulling WAN fiber to the demarc. Approximate distance to building entry is 2,000'. Service provider shall be responsible for verifying all distances and if pull boxes in green outline and full conduit path to internal demarc can be utilized or else propose alternate.

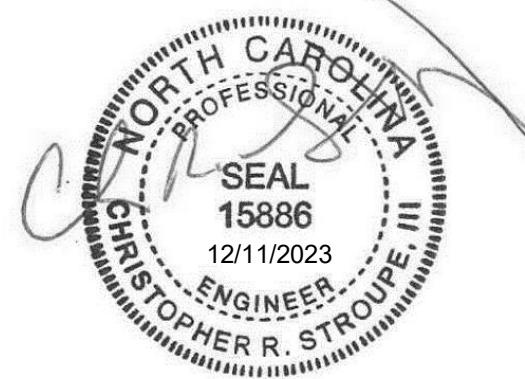


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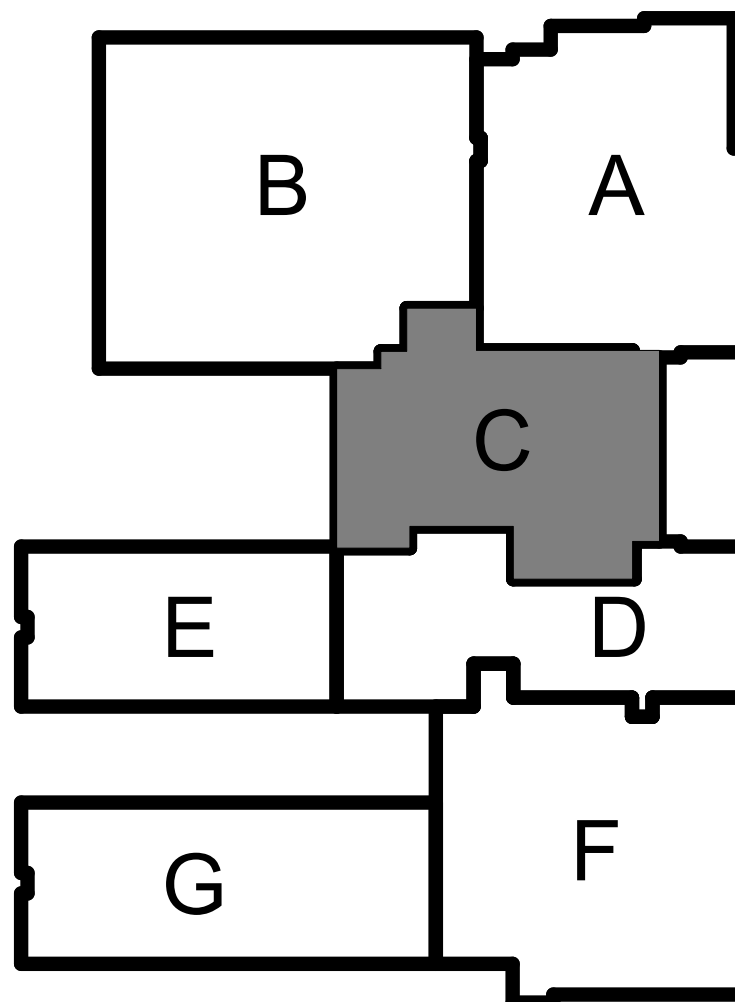
Iredell - Statesville Schools

WEATHERS CREEK
HIGH SCHOOL

246 OVERCASH RD.
TROUTMAN NC, 28166

Project Number	3613
Contact	CES
Drawn By	PN
Date	August 18, 2023
Schematic Design	August 12, 2021
NCDPI	August 12, 2021
NCDOI	August 30, 2021
Design Development	December 03, 2021
NCDPI	December 03, 2021
50% CD Coordination	June 24, 2022
Construction Documents	
Estimate Submission	September 30, 2022
NCDPI CD Submission	August 18, 2023
Issued for Permit	December 11, 2023

NO.	Revision Description	Revision	Revision Date
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ELECTRICAL SYSTEM
SECOND LEVEL PLAN
AREA C

SYSTEMS SHEET NOTES

- A ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR WIRING ALL ELECTRICAL ITEMS SHOWN ON THE DRAWINGS, EXCEPT ITEMS LISTED ON SHEET E0.01 GENERAL ELECTRICAL NOTES
- B SEE FIRE ALARM ZONE SCHEDULE FOR INITIATING ZONES AND SIGNAL CIRCUITS.
- C MAXIMUM NUMBER OF 4 INFORMATION OUTLET LOCATIONS PER CONDUIT HOME RUN TO MDF OR IDF IS PERMITTED. CONDUIT SHALL BE SIZED AS FOLLOWS
- C(1) INFORMATION OUTLET LOCATION: 1' 1"
- C(2) INFORMATION OUTLET LOCATIONS: 1' 1/4"
- C(3) INFORMATION OUTLET LOCATIONS: 1' 1/2"
- D PLACE NO MORE THAN 12 CORRIDOR SPEAKERS PER RUN WP 292 CABLING TO THE HEAD-END.
- E EACH CABLING RUN SHALL BE SHOWN ON AS BUILT PROVIDED BY CONTRACTOR AND LABELED NUMBERED FOR FUTURE IDENTIFICATION. EACH LOCATION SHALL BE APPROXIMATELY 30 FT ON CENTERS FROM EACH OTHER.
- G CONCEAL CABLES IN ANY EXPOSED CEILING (SIZE PER NEC) IN LIEU OF CABLE TRAY. CONDUIT SHALL BE ROUTED ALONG STRUCTURAL BEAMS DIRECTION AND E/C TO PROVIDE CONDUIT, CONNECTORS, SUPPORTS AS NEEDED.
- H ALL COMMUNICATIONS CABLES SHALL BE INSTALLED IN CONDUIT, CABLE TRAY, OR SUPPORTED BY CABLE HOOKS. PROVIDE BUSHINGS AT THE ENDS OF ALL CONDUIT WHERE STUBBED ABOVE ACCESSIBLE CEILINGS OR WHERE DROPPED INTO CABLE TRAY. PROVIDE CABLE HOOKS ABOVE ACCESSIBLE CEILINGS FOR CABLE INSTALLATION WHERE NOT INSTALLED IN CONDUIT OR CABLE TRAY.
- I CONCEAL CABLES IN ANY EXPOSED CEILING (SIZE PER NEC) IN LIEU OF CABLE TRAY. CONDUIT SHALL BE ROUTED ALONG STRUCTURAL BEAMS DIRECTION AND E/C TO PROVIDE CONDUIT, CONNECTORS, SUPPORTS AS NEEDED.
- J ALL COMMUNICATIONS CABLES SHALL BE INSTALLED IN CONDUIT OR CABLE TRAY.
- K VERIFY ALL SPEAKERS, WAPS AND CAMERAS LOCATED ON CEILING WITH ARCHITECTURAL CEILING PLANS TO AVOID CONFLICT WITH LIGHT FIXTURES, HVAC EQUIPMENT, SPRINKLER SYSTEM, FIRE ALARM DEVICES AND PLUMBING. COORDINATE WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- L THE SECURITY CAMERAS SHALL COMPLY WITH IEEE802.3 AF/AT (PoE OR PoE+) AND UL 2602 (N/C).
- M EXTERIOR CAMERAS LOCATED ON BUILDING ACCESS SHALL BE ZOOM STYLE, 8 MG PIXELS, 360°, WEATHERPROOF.
- N INTERIOR CAMERAS SHALL BE PTZ STYLE, 8 MG PIXELS, IP, HD, ADAPTER PLATE MOUNTING, PROVIDE 4" SQUARE, SINGLE OR DOUBLE GANG.

SYSTEMS SHEET NOTES

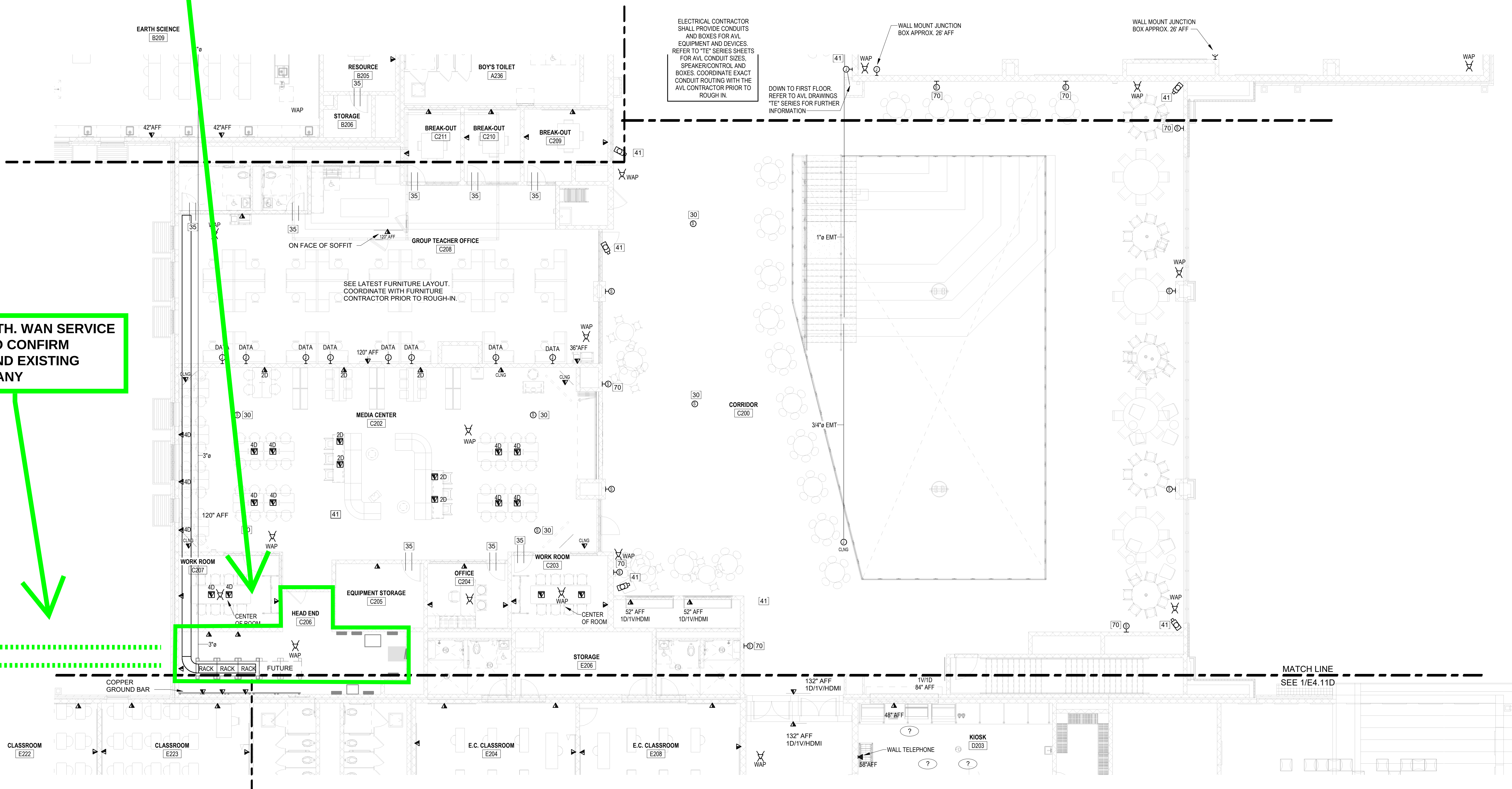
- O ALL DATA AND INTERCOM CABLE TO BE PLENUM RATED.
- P ALL WIRES FROM DATA CLOSETS TO DATA PORT SHALL BE CAT6.
- Q CABLE TRAY SHOULD NOT INTERFERE WITH ACCESS TO JUNCTION BOXES.
- R PROVIDE 4 PAIR 24 GAUGE CONTINUOUS CABLE, CAT6, WHITE OR GRAY CABLING, HOMERUN FROM EACH TELEPHONE OUTLET TO THE TELEPHONE TERMINAL BOARD LOCATION. TERMINATE AT OUTLET LOCATION WITH OWNER APPROVED JACK. VERIFY LOCATIONS WITH IT. SUB CONTRACTOR PRIOR TO ROUGH-IN.
- S ALL HORIZONTAL CONDUIT IN SYM TO BE INSTALLED AT BOTTOM OF ROOF DECK. ALL VERTICAL CONDUIT IN WALLS.
- T PROVIDE A PERMANENT MEANS OF 2-WAY COMMUNICATION BETWEEN EACH SCIENCE CLASSROOMS AND THE SCHOOL ADMINISTRATION STAFF.
- U INTERCOM SYSTEM SHALL HAVE AT MINIMUM:
- U(1) CLASSROOM INTERCOM TWO-WAY CALLING.
- U(2) ZONE PAGING WITH SOFTWARE-ADJUSTABLE VOLUME PER ZONE.
- U(3) EMERGENCY PAGING.
- U(4) PLAYING EMERGENCY TONES.
- U(5) MANAGING BELL SCHEDULE REVIEW AT A-GLANCE.
- U(6) SIP (SESSION INITIATION PROTOCOL) INTERFACE.
- V E.C. TO PROVIDE MICROPHONE OUTLET AT LOCATION SHOWN WITH NECESSARY CONNECTORS. CONTRACTOR TO PROVIDE ALL NECESSARY INTERCONNECTING CABLE, CONNECTORS, SUPPORTS, ACCESSORIES, ETC. FOR A COMPLETE SYSTEM.
- X CABLE TRAY SHALL BE 18" WIDE AND 4" DEEP. U.N.O. BASKET TYPE.
- Y PROVIDE A COMPLETE RESCUE ASSISTANCE SYSTEM AT THE ELEVATOR LOBBY ON ALL LEVELS WITH 2-WAY COMMUNICATION SYSTEM PER IBC 1007.8 AND INSTALLED PER NFPA 24.10.1. THE 2-WAY COMMUNICATION SHALL CONSIST ON A RATH CALL BOX TYPE: STAINLESS STEEL, SURFACE MOUNT AT THE ELEVATOR LOBBY LOCATED AT CORRIDOR ON SECOND FLOOR AND A RATH CALL BASE STATION (DESKTABLE TOP) LOCATED AT AN APPROVED (BY AHJ) CENTRAL CONTROL POINT LOCATION. SEE DETAIL 3 ON SHEET E5.11 FOR FURTHER INFORMATION.
- Z PROVIDE 1 GANG CATEGORY 7 DATA OUTLET WITH SHUTTER. VERIFY EXACT LOCATION WITH M.C. AND G.C. COORDINATE WITH IT SUB CONTRACTOR TO PROVIDE CAT6 CABLE FROM RMS GLOBAL CONTROLLER TO THE BUILDING DATA NETWORK AND TERMINATE.

SYSTEM KEYNOTES

- 30 PROVIDE CEILING MOUNT SPEAKER FOR INTERCOM SYSTEM. ALL SPEAKER INTERCOM CABLES RUNNING FROM THE CABLETRAY TO THE SPEAKER ARE TO BE SUSPENDED ON J-HOOK (MAX. 48" O.C.) FROM STRUCTURE TO 2 1/2" SLEEVE. PROVIDE (1) CAT6A CABLES WITH 15 FT. LOOP IN EACH ABOVE CEILING IN CENTER OF ROOM AND SUSPENDED FROM STRUCTURE. REFER TO SPECS FOR TYPICAL CLASSROOM INTERCOM WIRING RUN FROM SPEAKER LOCATION (WITH 3' OF SLACK LEFT IN CEILING) DIRECTLY BACK TO THE HEAD-END ROOM. ALL SPEAKERS ARE TO BE SET AT 1 WATT UNLESS NOTED OTHERWISE.
- 35 (2) 3 1/2" EMT SLEEVES ABOVE CEILING WITH INSULATED THROAT AND BUSHINGS ON EACH END. FIRE PROOF AFTER ALL WIRING IS COMPLETE.
- 41 PROVIDE METAL CONSTRUCTION BOX. FOR USE SPECIFIED CAMERA MODEL (BY OWNER). PROVIDE CAT6A CABLE AND 3/4" CONDUIT AS NEEDED. TERMINATE TO RECESSED JUNCTION BOX ON CEILING WITH FACE PLATE. COORDINATE HEIGHT AND EXACT LOCATION WITH OWNER AND/OR ARCHITECT. WP. DENOTES WEATHERPROOF CAMERAS. CAMERAS PROVIDED BY OTHERS. COORDINATE WITH OWNER AND SECURITY CONTRACTOR PRIOR TO ROUGH-IN.
- 70 PROVIDE WALL MOUNT SPEAKER FOR INTERCOM SYSTEM. ALL SPEAKER INTERCOM CABLES RUNNING FROM THE CABLETRAY TO THE SPEAKER ARE TO BE SUSPENDED ON J-HOOK (MAX. 48" O.C.) FROM STRUCTURE TO 2 1/2" SLEEVE. PROVIDE (1) CAT6A CABLES WITH 15 FT. LOOP IN EACH ABOVE CEILING IN CENTER OF ROOM AND SUSPENDED FROM STRUCTURE. REFER TO SPECS FOR TYPICAL CLASSROOM INTERCOM WIRING RUN FROM SPEAKER LOCATION (WITH 3' OF SLACK LEFT IN CEILING) DIRECTLY BACK TO THE HEAD-END ROOM.

DEMARC IN MEDIA CENTER, HEAD
END RM C206. (2ND FLOOR)
SERVICE PROVIDER MUST
CONFIRM PATH VIA 'IFO' ON
SITEPLAN WITH GENERAL
CONTRACTOR, OR AT SITE VISIT
OR VIA RFP AMENDMENTS
THEREAFTER

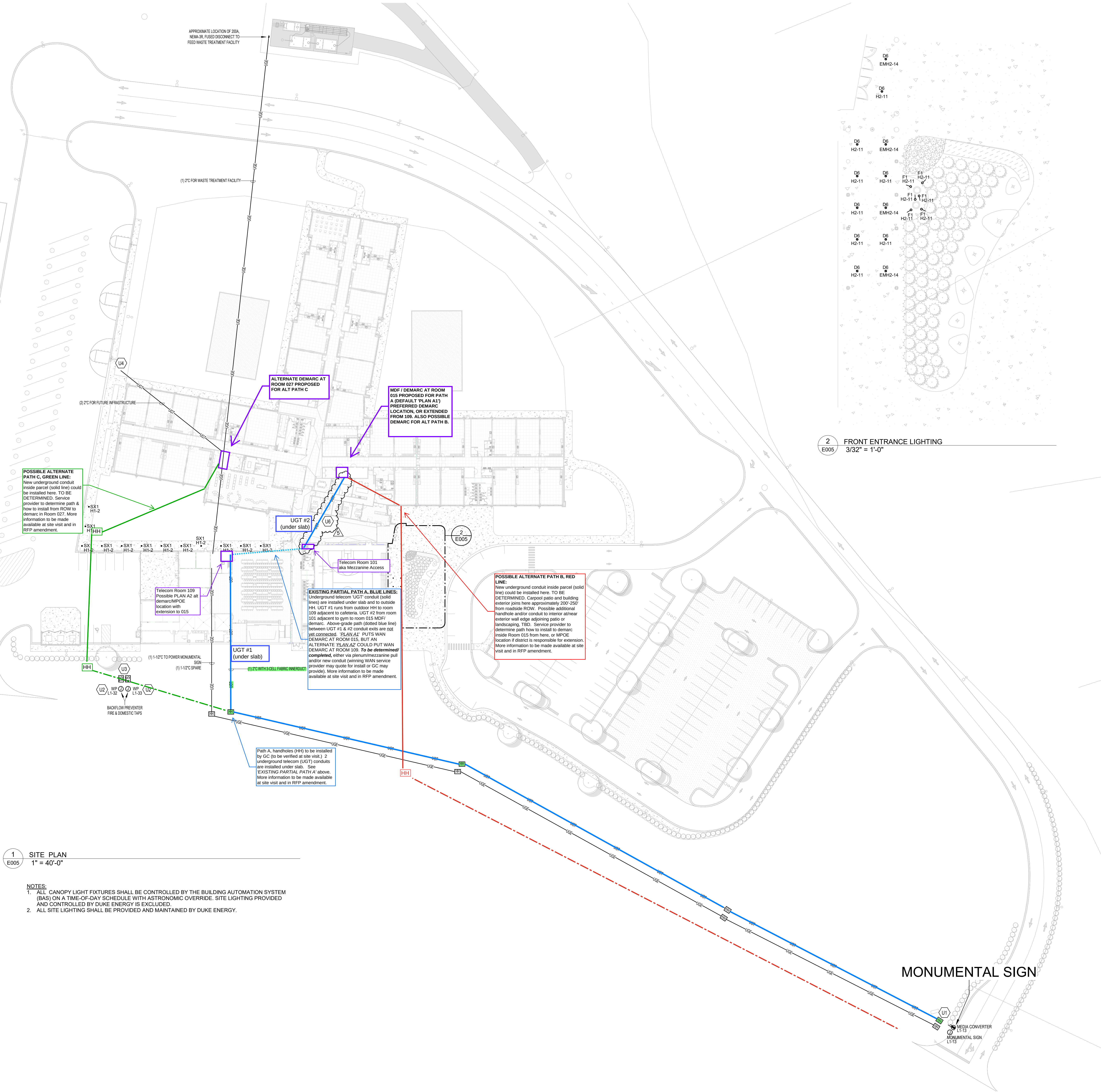
IFO / OFO PATH. WAN SERVICE
PROVIDER TO CONFIRM
LOCATION AND EXISTING
CONDUIT, IF ANY



1
E4.10C
ELECTRICAL SYSTEM SECOND LEVEL PLAN AREA C
1/8" = 1'-0"

KEYNOTES

- U1 PROVIDE NEMA 4X ENCLOSURE ADJACENT TO MONUMENT SIGN CONTAINING SINGLE-MODE FIBER MEDIA CONVERTER, 120V POWER CONNECTION, AND SURGE PROTECTION. ENCLOSURE SHALL RECEIVE FIBER FROM NEAREST HANDHOLE AND PROVIDE RJ-45 CONNECTION TO SIGN CONTROLLER. COORDINATE FINAL LOCATION, POWER REQUIREMENTS, AND MOUNTING DETAILS WITH SIGN AND SITE CONTRACTORS.
- U2 WEATHERPROOF JUNCTION BOX FOR BACKFLOW HEATER. COORDINATE WITH CIVIL CONTRACTOR FOR EXACT LOCATION AND MORE INFORMATION.
- U3 COORDINATE EXACT LOCATION AND QUANTITY OF TAMPER SWITCHES WITH CIVILSPRINKLER CONTRACTOR. PROVIDE CONNECTION TO SCHOOL FIRE ALARM SYSTEM.
- U4 PROVIDE FUTURE CONDUIT(S) AS SHOWN. CAP AND SEAL ALL UNUSED ENDS TO PREVENT WATER OR DEBRIS INTRUSION. INCLUDE 1000 LB TEST MULETAPE AND TRACER WIRE IN EACH CONDUIT.
- U6 PROVIDE 2-INCH CONDUIT BENEATH SLAB ACROSS LOBBY 020 FOR DOOR POSITION SWITCH CABLING ROUTED TO TELECOM ROOM 015. COORDINATE THE EXACT ROUTE AND VERTICAL TRANSITION WITH THE ARCHITECT, STRUCTURAL DRAWINGS, AND OTHER TRADES PRIOR TO SLAB PLACEMENT.



2 FRONT ENTRANCE LIGHTING
3/32" = 1'-0"

1 SITE PLAN
1" = 40'-0"

NOTES:

- ALL CANOPY LIGHT FIXTURES SHALL BE CONTROLLED BY THE BUILDING AUTOMATION SYSTEM (BAS) ON A TIME-OF-DAY SCHEDULE WITH ASTRONOMIC OVERRIDE. SITE LIGHTING PROVIDED AND CONTROLLED BY DUKE ENERGY IS EXCLUDED.
- ALL SITE LIGHTING SHALL BE PROVIDED AND MAINTAINED BY DUKE ENERGY.

CONSTRUCTION DOCUMENTS

ISS PARKERTOWN ELEMENTARY

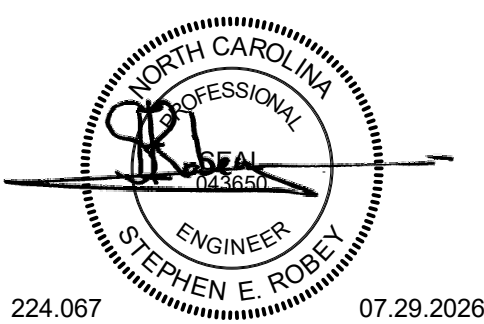
218 PARKERTOWN RD, MOORESVILLE, NC 28115

SITE PLAN

DATE: 01.27.2026
PROJECT NO: 24011

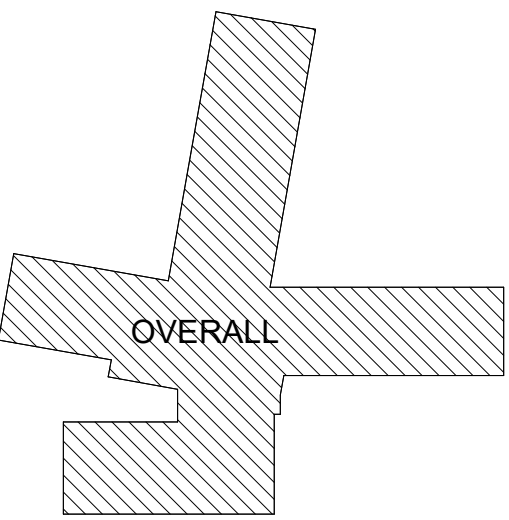
REVISIONS		
NO.	DATE	DESCRIPTION
5	07.29.2026	Low Voltage Coordination

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SHEET NUMBER:

E005



65%
CONSTRUCTION
DOCUMENTS

ISS PARKERTOWN ELEMENTARY

218 PARKERTOWN
RD, MOORESVILLE,
NC 28115

SYSTEMS PLAN - CABLING ASSIGNMENTS

DATE: 11.17.2025
PROJECT NO: 24011
REVISIONS
NO. DATE: DESCRIPTION:

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