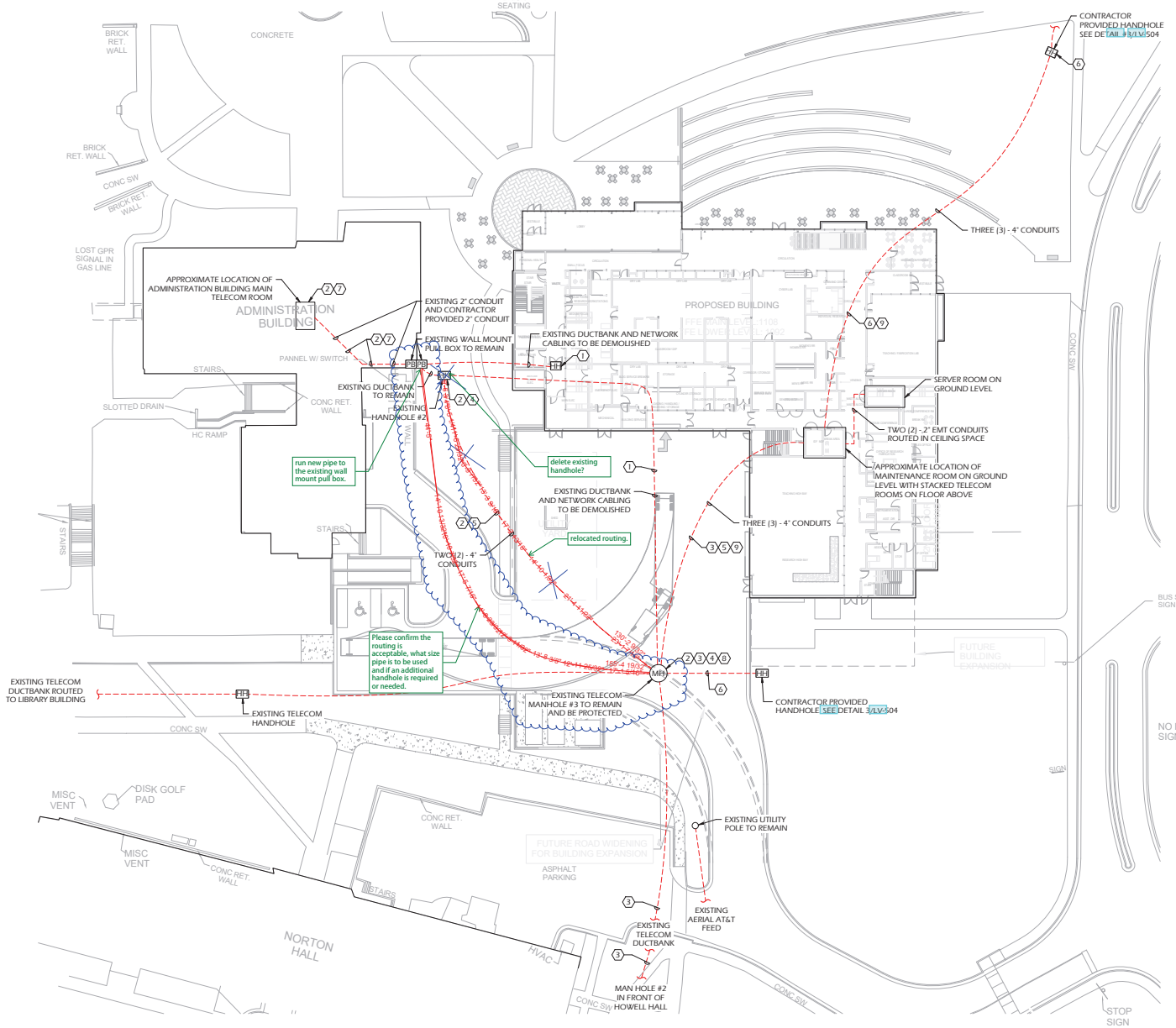

SITE 1" = 15'-0"

1 LOW VOLTAGE SYSTEMS - SITE PLAN

GENERAL NOTES:

A. NO CONDUIT RUN TO CONTAIN MORE THAN TWO (2) 90 DEGREE BENDS BETWEEN PULLING POINTS. PROVIDE JUNCTION BOXES WHERE REQUIRED TO MAINTAIN (2) 90 DEGREE BEND RULE.

B. ALL CONDUITS ROUTED BELOW GRADE TO BE SEALED TO PREVENT WATER INFILTRATION INTO EQUIPMENT ROOMS.

C. ALL DAMAGED LANDSCAPING, ASPHALT, AND CONCRETE SHALL BE RETURNED BACK TO THE ORIGINAL CONDITION.

D. REFERENCE ELECTRICAL SPECIFICATIONS FOR DUCT BANK INSTALLATION REQUIREMENTS.

E. ALL OUTSIDE PLANT CABLES TO BE OUTSIDE PLANT (WET LOCATION) RATED.

F. ALL NEW EXTERIOR DUCTBANKS TO BE PROVIDED WITH METALLIC TRACER WIRE TO ALLOW FUTURE LOCATION.

G. ALL LOW VOLTAGE CABLING SHALL BE ROUTED DIRECTLY TO LOW VOLTAGE EQUIPMENT CABINETS WITHOUT SPLICES. JUNCTIONS OR SPLICES IN CABLES ARE NOT ACCEPTABLE.

H. BEFORE ANY DIRECTIONAL DRILLING CAN COMMENCE, ALL EXISTING UNDERGROUND UTILITIES LOCATED ON UNIVERSITY PROPERTY AND WITHIN THE CITY PUBLIC RIGHT-OF-WAY MUST BE EXCAVATED AND EXPOSED (POT HOLE) SO AS TO PIN-POINT ITS PRECISE HORIZONTAL AND VERTICAL LOCATION. THIS SHALL BE DONE FOR ALL UNDERGROUND UTILITIES BURIED IN GRASS AREAS AND THOSE LOCATED UNDER ASPHALT AND/OR CONCRETE. BEFORE COMMENCEMENT OF WORK, WRITTEN ELEVATIONS TO BE SUBMITTED TO THE DESIGN TEAM FOR APPROVAL.

I. AS REQUIRED BY NATIONAL ELECTRIC CODE, NEC 300.5 (A), PROVIDE MINIMUM OF 24" OF COVER WHERE CONDUITS ARE CROSSING UNDER STREETS, ROADS, ALLEYS, DRIVEWAYS, AND PARKING AREAS.

J. CONTRACTOR SHALL UTILIZE RIGID CONDUIT ELBOWS FOR ALL 90° CONDUIT TURN-UPS FROM UNDERGROUND DUCT BANKS TO INTERIOR LOCATIONS.

K. REFERENCE VOICE AND DATA ONE-LINE DIAGRAMS FOR INSTALLATION REQUIREMENTS ASSOCIATED WITH REQUIRED BACKBONE CABLING SYSTEMS.

L. IN OPEN CEILINGS AND NON-ACCESSIBLE CEILING SPACE, ALL SIGNAL AND LOW VOLTAGE POWER CABLE TO BE ROUTED IN EMT CONDUIT. MINIMUM SIZE SHALL BE 3/4". SIZE PER NEC 40% FILL REQUIREMENT.

KEY NOTES:

1. EXISTING DUCT BANKS, HANDHOLES, AND NETWORK CABLING IN FOOTPRINT OF NEW CONSTRUCTION PROJECT TO BE DEMOLISHED AND REPLACED. NETWORK OUTAGES TO BE SCHEDULED WITH KSU PRIOR TO ANY DEMOLITION.

2. FOR ADMINISTRATION BUILDING NEW DATA SERVICE, PROVIDE NEW 48 STRAND OSP SINGLE MODE FIBER OPTIC CABLE FROM MANHOLE #3 TO ADMIN BUILDING MAIN TELECOM ROOM. IN MANHOLE, CONTRACTOR TO FUSION SPLICE INTO EXISTING FIBER OPTIC CABLE. IN TELECOM ROOM, PROVIDE NEW RACK MOUNT FIBER CONNECTOR PANEL TO SUPPORT MINIMUM OUTAGE. CONNECTORS TO BE FUSION SPLICED PIGTAILS. COORDINATE LOCATION OF CONNECTOR PANEL WITH KSU I.T.

3. IN ORDER TO CONNECT TO EXISTING CAMPUS SERVICES, EXTEND 48 STRAND SINGLE MODE OUTSIDE PLANT FIBER OPTIC CABLE FROM THE EXISTING MANHOLE #2 IN FRONT OF HOWELL HALL TO THE NEW PROJECT MAIN TELECOM ROOM. IN MANHOLE #2, FUSION SPLICE 48 STRAND SINGLE MODE FIBER OPTIC CABLE TO EXISTING SINGLE MODE CABLE. ALL FUSION SPLICING TO BE SUPERVISED BY KSU I.T.

4. FOR CONNECTION INTO EXISTING DUCT BANK, EXCAVATE SIDE OF EXISTING MANHOLE & HANDHOLE. PENETRATE AND ROUTE NEW CONDUITS INTO MANHOLE & HANDHOLE. SEAL MANHOLE & HANDHOLE AFTER CONDUIT INSTALLATION.

5. PROVIDE, BELOW GRADE, NOTED QUANTITY OF SCHEDULE 40 PVC CONDUITS BETWEEN MANHOLE/HANDHOLE AND MAIN TELECOM ROOM ON GRADE LEVEL. INSTALL CONDUIT PER NEC CODE REQUIREMENTS. USE LONG RADIUS 90 DEGREE ELBOWS TO TURN CONDUIT UP INTO TELECOM ROOM. CONDUITS TO TURN-UP ~3" ABOVE GRADE SLAB. ALL CONDUIT OPENINGS ARE TO BE SEALED. REFER TO LARGE SCALE DRAWING FOR PLACEMENT OF CONDUITS IN MAIN TELECOM ROOM.

6. PROVIDE, BELOW GRADE, NOTED QUANTITY OF SCHEDULE 40 PVC CONDUITS FROM MAIN TELECOM ROOM ON GRADE LEVEL OR MANHOLE TO NEW HAND HOLE FOR FUTURE USE. INSTALL CONDUIT PER NEC CODE REQUIREMENTS. USE LONG RADIUS 90 DEGREE ELBOWS TO TURN CONDUIT UP INTO TELECOM ROOM. CONDUITS TO TURN-UP ~3" ABOVE GRADE SLAB. ALL CONDUIT OPENINGS ARE TO BE SEALED. REFER TO LARGE SCALE DRAWING FOR PLACEMENT OF CONDUITS IN MAIN TELECOM.

7. FROM INTERIOR PULL BOX ON LOWER LEVEL TO UPPER LEVEL MAIN TELECOM ROOM, ROUTE NEW 2" CONDUIT. FOLLOW PATH OF EXISTING DATA CONDUIT. FOR ACCESS TO BUILDING MAIN TELECOM ROOM, CORE SLAB AND STUB UP CONDUIT INTO ROOM ADJACENT TO EXISTING CONDUIT. PRIOR TO CORING, X-RAY SLAB TO ENSURE EXISTING STEEL OR IN-SLAB CONDUITS ARE NOT DAMAGED DURING CORING. PROTECT ALL TELECOM ROOM EQUIPMENT DURING CORING.

8. PROTECT EXISTING MANHOLE AND ASSOCIATED DUCT BANKS DURING NEW PAVING INSTALLATION. MANHOLE TO CONTINUE TO BE ACCESSBLE TO KSU I.T.

9. IN HALF OF THE 4" CONDUITS IN EACH DUCT BANK, PROVIDE TWO PACKS OF 3-CELL MAXCELL EDGE 4" INNERDUCT SYSTEM IN ORDER TO ACCOMMODATE A MINIMUM OF 6 CABLES IN EACH 4" CONDUIT.

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INTERDISCIPLINARY STEM BUILDING

BOARD OF REGENTS OF THE UNIVERSITY SYSTEM OF GEORGIA
PROJECT NO. J-389

PROJECT NUMBER
22035

SEALS AND SIGNATURES

GEORGIA REGISTERED PROFESSIONAL ENGINEER

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RELEASED FOR CONSTRUCTION

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1	SCHEMATIC DESIGN	07.11.2023
2	DESIGN DEVELOPMENT	10.10.2023
3	CCD-2	12.04.2023

SHEET TITLE:

SITE PLAN

LV-101