

Liberty School District – Technology Remodel
Addendum No: 001
Description Narrative
October 23, 2023

This Addendum is issued to all registered plan holders pursuant to the Instructions to Bidders and Conditions of the Contract. This Addendum serves to clarify, revise, and supersede information in the Project Manual, Drawings, and previously issued Addenda. Portions of the Addendum affecting the Contract Documents will be incorporated into the Contract by enumeration of the Addendum in the Owner/Contractor Agreement.

The Bidder shall acknowledge receipt of this Addendum in the appropriate space on the Bid Form.

A. CONSTRUCTION MANAGER'S FRONT END MANUAL

1. Revise - SECTION 002413 – SCOPE(S) OF WORK
 - a. 02-4100 - Demolition
 - b. 03-3000 –Concrete
 - c. 04-2000 – Unit Masonry
 - d. 05-1000 – Structural Steel
 - e. 06-1000 – General Trades
 - f. 07-1000 – Joint Sealants
 - g. 07-8400 – Firestopping
 - h. 08-8000 – Glazing
 - i. 09-2000 – Metal Stud Framing
 - j. 09-3000 – Tiling
 - k. 09-6000 – Resilient Flooring
 - l. 09-6700 – Resinous Flooring
 - m. 09-9000 –Painting
 - n. 22-1000 – Plumbing
 - o. 23-3000 – HVAC
 - p. 26-1000 – Electrical
 - q. 27-1000 – Communications
 - r. 32-3100 – Fencing and Gates
 - s. 32-9000 – Landscaping
 - t. 33-1000 – Site Utilities
2. Add - SECTION 012600 – Contract Modification Procedures

B. OTHER

NA

C. SPECIFICATIONS



Newkirk Novak Construction Partners
11200 West 79th Street
Lenexa, KS 66214
913.312.9535

1. Please reference the attached Addendum No. 001 issued by Hollis + Miller dated October 23, 2023, for updates to Specifications.

D. DRAWINGS

1. Please reference the attached Addendum No. 001 issued by Hollis + Miller dated October 23, 2023, for updates to Drawings.

Please direct any questions regarding the information in this addenda and the project to Newkirk Novak Construction Partners.

SECTION 01 26 00

CONTRACT MODIFICATION PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for handling and processing Contract modifications.
- B. Related Sections:
 - 1. Division 01 Section “Product Requirements” for administrative procedures for handling requests for substitutions made after Contract award.
 - 2. Division 01 Section “Project Management and Coordination” for administrative procedures for processing Requests for Information.

1.3 MINOR CHANGES AND/OR CLARIFICATIONS IN THE WORK

- A. Architect’s Supplemental Instructions (ASI)
 - 1. Architect will issue through Construction Manager supplemental instructions authorizing minor changes in the Work, not involving adjustment to the Contract Sum or the Contract Time, on AIA Document G710, “Architect’s Supplemental Instructions” or other form as decided by the Architect or Owner.
- B. Request for Information (RFI)
 - 1. If during the construction of the project, clarification of the Construction Documents is required, it shall be brought to the attention of the Construction Manager. Reference Division 01 Section “Project Management and Coordination” for procedures regarding RFIs.
 - 2. Responses to RFIs are not authorization to proceed with work requiring additional compensation. If additional compensation is required, the Contractor shall immediately advise the Construction Manager who will review the item with the Architect and Owner to determine if a Proposal Request will be issued.

1.4 PROPOSAL REQUESTS

- A. Owner-Initiated Proposal Requests: Architect will issue, through the Construction Manager, a detailed description of proposed changes in the Work that may require adjustment to the Contract Sum or the Contract Time. If necessary, the description will include supplemental or revised Drawings and Specifications.
 - 1. Proposal Requests issued by Architect and/or Construction Manager are not instructions either to stop work in progress or to execute the proposed change.
 - 2. Within the time specified in the Proposal Request, submit a quotation estimating the cost adjustments to the Contract Sum and the Contract Time necessary to execute the change.
 - 3. Comply with the requirements defined in this section for submission of proposals for a Change Order.
- B. Contractor-Initiated Proposals: If latent or changed conditions require modifications to the Contract, Contractor may initiate a claim by submitting a request for a change to the Construction Manager.

1. Include a statement outlining reasons for the change and the effect of the change on the Work. Provide a complete description of the proposed change. Indicate the effect of the proposed change on the Contract Sum and the Contract Time.
2. Comply with the requirements defined in this section for submission of proposals for a Change Order.
3. Comply with requirements in Division 01 Section "Substitution Procedures" if the proposed change requires substitution of one product or system for product or system specified.

1.5 CONSTRUCTION CHANGE DIRECTIVES (CCDs)

- A. Construction Change Directive: The Architect or Construction Manager may issue a Construction Change Directive (CCD). A Construction Change Directive instructs the Contractor to proceed with a change in the Work, for subsequent inclusion in a Change Order.
 1. Construction Change Directives contain a complete description of change in the Work. It also designates the method to be followed to determine change in the Contract Sum or Contract Time.
- B. Documentation: Maintain detailed records on a time and material basis of work required by Construction Change Directive. Work tickets shall be signed and verified by on site supervision of Construction Manager daily.
 1. After completion of the change, submit an itemized account and supporting data necessary to substantiate cost and time adjustments to the Contract. All guidelines for allocation of overhead and profit as defined in this section shall apply.

1.6 ADMINISTRATIVE CHANGE ORDERS

- A. Allowance Adjustment: Refer to Division 01 Section "Allowances" for administrative procedures for preparation of Change Order Proposal for adjusting the Contract Sum to reflect actual costs of allowances.
- B. Unit Price Adjustment: Refer to Division 01 Section "Unit Prices" for administrative procedures for preparation of Change Order Proposal for adjusting the Contract Sum to reflect measured scope of unit price work.

1.7 SUBMISSION OF PROPOSALS FOR CHANGE ORDER

- A. Labor Rate Breakdown:
 1. Base Rate Calculation: All Contractors will be required to substantiate all labor rates (for all skill levels and tradesmen) as actual cost plus allowable overhead and profit, prior to submitting change order pricing. Breakdowns shall include: base labor rate, fringes, union dues, payroll taxes and insurance. Any item not falling into one of these categories will be considered overhead and shall be included in the fee limits listed below.
 2. Premium on Overtime Rate Calculation: In the event overtime work is requested by the Construction Manager (not required by the Contract Documents or due to the fault of the Contractor), the premium on the overtime rate will be required to be substantiated as actual cost plus allowable overhead and profit. Breakdowns shall include: half of base labor rate, only the overtime premium portion of any applicable union fringes, and payroll taxes and insurance (excluding workers compensation insurance which is not paid on the premium portion of overtime). Any item not falling into one of these categories will be considered overhead and shall be included in the fee limits listed below.
- B. Method of Proposal:
 1. Comply with the requirements of this section and all other contract requirements.

2. Include a direct reference to the change document in the proposal description. If the request is not linked to a change document, a full and thorough description of the work and the reason for the change order request is required. Change requests not in this format will not be reviewed.
3. Include a list of quantities of products required or eliminated and unit costs, with total amount of purchases and credits to be made. If requested, furnish survey data to substantiate quantities.
4. Indicate applicable taxes, delivery charges, equipment rental (rates and hours), and amounts of trade discounts.
5. Include costs of labor and supervision (as allowed by contract provisions) directly attributable to the change. Provide crew information including, labor rate for each skill level and trade, number of man-hours including estimating program back-up substantiating those hours.
6. Provide proposal detail and estimate which defines the type or area of work (i.e. Concrete: concrete walls, grade beams, piers, sidewalks, etc., Drywall: metal studs, rock, finishing, etc.).
7. Include substantiating back-up from Subcontractors and Material Suppliers equal to the requirements of the Prime Contractor proposal as described in this section.
8. Include all fee itemized separate from the detail described herein and in the limits described in this section.
9. Include an updated Contractor's construction schedule that indicates the effect of the change, including, but not limited to, changes in activity duration, start and finish times, and activity relationship. Use available total float before requesting an extension of the Contract Time.
10. Review and approval of a Contractors proposal for change order does not alleviate Contractors responsibility to provide accurate estimating, i.e. acceptance of pricing does not constitute acceptance of quantities, unit prices, man-hours, etc.

C. Fee Limits:

1. Fee includes all general requirements, all supervision (including project management and general on site supervision), overhead and profit.
2. The following fee percentages shall be used for lump sum pricing and actual cost pricing of additions and deletions to the work:

<u>Description of Condition</u>	<u>Not to Exceed</u>
To Prime Contractor for work performed by own forces	10%
To Prime Contractor for work performed by other than own forces	5%
To Prime's Subcontractor/Material Supplier for work performed by Subcontractor's own forces	10%
To Prime's Subcontractor for work performed by other than Subcontractor's own forces	5%
<u>Total aggregate fee limit including both prime and subcontractor shall not exceed 15% in any case.</u>	

- D. Pricing Validation: If the Work associated with a Contractor requested change order is performed, and in the opinion of the Owner, Architect, or Construction Manager, the Work does not adequately reflect the breakdown provided during pricing of the change, the Contractor may be asked and shall be required to substantiate man-hours, equipment, quantity, etc, to validate the change order pricing.

1.8 CHANGE ORDER PROCEDURES

- A. On Owner's approval of a Proposal Request, the Construction Manager will issue a Change Order for signatures of Architect, Owner, Contractor and Construction Manager.

END OF SECTION 01 26 00

MASTER SCOPE OF WORK

Scope of work includes, but is not limited to, the following:

1. Each Subcontractor shall field verify existing conditions for deficiencies, unsatisfactory conditions, unacceptable dimensional tolerances, and notify NNCP of such prior to installing work. Repairs due to unsatisfactory substrates, after acceptance shall be performed at the sole expense of each subcontractor.
2. Provide all layout, surveying, layout maintenance, field measurements, and field verification as needed to complete the required scope of work.
3. Each Subcontractor shall provide their own lifts/hoisting/scaffolding.
4. Subcontractors to have on-site staff for all deliveries and offloading.
5. Subcontractors shall provide a person qualified, with authority to make decisions in attendance at any meeting that is requested by the NNCP.
6. Each Subcontractor is responsible for all required mobilizations, phasing, manpower, equipment, overtime, phasing, submittals, procurement etc. as required to meet the project schedule.
7. Subcontractors are responsible for temporary protection of their own work or adjacent work as required to complete their scope of work. Protect existing improvements, the work of other trades, trees and vegetation scheduled to remain.
8. Subcontractors to include required coring, cutting sleeving, sealants, and patching to complete their scope of work.
9. Provide water as needed for designated scope of work.
10. Subcontractors are required to coordinate all required inspections with the NNCP and appropriate testing agencies. Subcontractors are required to ensure all items are completed prior to inspection.
11. Coordinate all utility locates as required to complete scope of work.
12. NNCP will provide the General Building Permit. Subcontractors are responsible for all trade permits and licenses required to complete their scope of work.
13. Provide additional individual task lighting as needed. OSHA minimum temporary lighting will be provided by site electrician.
14. Maintain a clean and safe workplace at all times. All debris related to the scope of this agreement shall be removed from the building and grounds to a dumpster on a daily basis. All project cleanup shall be performed by each scope of work. No additional project cleanup will be provided by the NNCP.
15. All on-site workers must be OSHA 10 certified and documentation verifying certifications must be submitted prior to employees starting on-site.

PROJECT: N3-0645
COST CODE: 02-4100**Liberty Public Schools Technology Remodel
02-4100–Demolition Scope of Work****Specific scope of work to be performed:**

Provide all required labor, material, equipment, permits, freight, labor, and applicable taxes necessary for the **Demolition** Scope of Work complete as set forth in the drawings and specifications provided by Hollis + Miller Architects on August 31st, 2023, and all other applicable sections of the project manual and all other subcontract documents identified.

- Division 00
- Division 01
- 024119 – Selective Demolition

JOB SPECIFIC SCOPE INCLUDES (but is not limited to):

1. All items per Master Scope of Work.
2. Provide all demolition per the contract documents.
3. Include dumpsters and haul-off of all demolished materials.
4. Salvage all items noted for reinstallation or return to owner. Coordinate with Construction Manager for location to store these items.
5. This contractor shall cover all demolition notes as shown.
6. Provide saw cutting and removal of concrete per the contract drawings.
 - a) Sawcut/Remove existing concrete slab as required for new underslab construction work.
 - b) Coordinate all saw cuts/demolition for new underslab construction with necessary contractors.
 - c) Demolition of Existing Concrete Stoop, site concrete, and asphalt
 - d) Include a minimum 2' wide trench (or wider if the drawings show this) at all locations. Patch back of concrete by others.
7. Provide GPR scanning of all concrete slabs prior to cutting.
8. For MEP demolition work, the MEP trades will be responsible to disconnect, cut, cap and drop the associated MEP work. Once dropped it will be the responsibility of the demo subcontractor to remove and haul off.
9. Assume Existing building to be clean and clear of asbestos, lead, mold, or hazardous building materials. Abatement of these materials will be completed by owner prior to demo.
10. Include proper disposal of all refrigerants, chemicals, etc.
11. Provide a site-specific safety plan for all demolition work.
12. All demolition workers shall have lead and asbestos awareness training prior to commencing work.
13. Removal of all fencing and fence posts specified on drawings to be removed. Preparation for the install of the new fence is included.
14. Demolition of EIFS for new openings throughout LPS Technology Building, Exterior masonry will be demolished by Masonry contractor.

The following work is excluded:

1. Abatement – by Owner
2. Cut and Cap of MEP lines – By MEP Trades
3. Patch back of concrete trenches – By concrete subcontractor
4. Exterior wall masonry demo for new openings. – By Mason

PROJECT: N3-0645
COST CODE: 03-3000**Liberty Public Schools Technology Remodel
03-3000–Concrete Scope of Work****Specific scope of work to be performed:**

Provide all required labor, material, equipment, permits, freight, labor, and applicable taxes necessary for the **Concrete Scope of Work** complete as set forth in the drawings and specifications provided by Hollis + Miller Architects on August 31st, 2023, and all other applicable sections of the project manual and all other subcontract documents identified.

- Division 00
- Division 01
- 033000 – Cast-in-Place Concrete
- 321313 – Concrete Paving

JOB SPECIFIC SCOPE INCLUDES (but is not limited to):

1. All items per Master Scope of Work.
2. All concrete work and associated accessories including but not limited to, form/wreck, shoring, place, finish all concrete shown in the contract documents. This includes but is not limited to footings, equipment/housekeeping and site equipment pads, exterior concrete stoops, concrete pavement, concrete drives, curb & gutter, concrete bollards, wheel stops etc.
3. Provide pour back of interior SOG removal for below slab MEP work.
4. All site concrete, including but not limited to, sidewalks, sidewalk ramps, steps, paving, curb & gutter, etc. Furnish and install handicap sidewalk ramps as required.
5. Provide all materials, equipment, labor, accessories, etc. required to install all reinforcing rebar/steel including dowels for concrete and masonry.
6. This contractor is responsible for all layouts and surveying associated with the installation of their work from existing control points.
7. Install expansion joints and controls joints/contraction joints, including performed/isolation joint filler where required. Provide a joint plan for engineer approval prior to performing slab on grade activities.
8. Include all excavation related to this scope of work. Spoils associated with this scope of work to be removed by this scope of work.
9. Granular fill as required at all slabs, concrete paving, sidewalk and any other concrete structures.
10. All miscellaneous concrete accessories as required for work of this scope including, but not limited to, mesh chairs, form release, curing compound, chamfer strips, expansion filler strips and water stops.
11. All footing and underslab insulation shall be by this scope of work, including interior foundation wall insulation adjacent to new concrete.
12. Install bollards and other embedded items to be set in concrete. These items will be provided by others. Grout at embedded items by this Contractor.
13. Provide all necessary earthwork, grading, and clean rock needed for completion of concrete scope of work.
14. Replace all concrete sidewalks and curbs disturbed by installation of site utilities. Provide all clean rock necessary to complete this work.
15. Provide concrete fill and installation of new bollards, Steel Contractor will provide steel for bollards
16. Demolition for existing stoop and chip footing below grade on North Side of LPS Technology Building
17. Include an allowance of (2%) of the contract value to be used at the direction of the construction manager. Any unused portions will be returned to the owner.

The following work is excluded:

PROJECT: N3-0645
COST CODE: 04-2000**Liberty Public Schools Technology Remodel
04-2000–Masonry Scope of Work****Specific scope of work to be performed:**

Provide all required labor, material, equipment, permits, freight, labor, and applicable taxes necessary for the **Masonry** Scope of Work complete as set forth in the drawings and specifications provided by Hollis + Miller Architects on August 31st, 2023, and all other applicable sections of the project manual and all other subcontract documents identified.

- Division 00
- Division 01
- 024100 – Selective Demolition (As Applies)
- 040100 – Masonry Restoration and Cleaning
- 042000 – Unit Masonry

JOB SPECIFIC SCOPE INCLUDES (but is not limited to):

1. All items per Master Scope of Work.
2. Provide all masonry, including but not limited to; CMU, face brick, grout, installation of embedded items, flashing, ties, anchors reinforcing steel, sleeves, flashing, weep holes, vents, lintels, dowels, drilling, grouting of all door/window frames and security frames located in masonry wall assemblies, accessories, etc
3. Provide blockouts and openings as required by other trades. Sleeves required for penetrations and openings will be furnished by other contractors and installed by the masonry contractor. Coordination and layout drawings will be furnished by applicable contractor. In fill openings in masonry walls around penetrations where necessary. Soaping and infill around structural steel will be required after the structural steel has been completed.
4. This contractor shall install all loose lintels and other misc. steel embeds at masonry walls as shown. Lintels and miss steel embeds will be provided by others.
5. Temporary bracing / needles for all masonry walls as required during construction.
6. Provide all exterior wall masonry demolition, clean & neat cutting, and salvaging. Tooth in new masonry as required. All other demolition to be provided by others.
7. Grout at structural steel locations shall be by this Contractor.
8. Provide all wall infill as shown on drawings.
9. Include an allowance of (\$5,000) of the contract value to be used at the direction of the construction manager. Any unused portions will be returned to the owner.

The following work is excluded:

1. Furnishing of Steel Lintels– By structural steel contractor
2. EIFS Demolition- Completed by Demolition Contractor
3. Temporary building enclosures at new window and door openings- General Trades Contractor
4. Interior masonry demo. – By demo contractor.

PROJECT: N3-0645
COST CODE: 05-1000**Liberty Public Schools Technology Remodel
05-1000 – Structural and Misc. Steel Scope of Work****Specific scope of work to be performed:**

Provide all required labor, material, equipment, permits, freight, labor, and applicable taxes necessary for the **Structural and Misc. Steel** Scope of Work complete as set forth in the drawings and specifications provided by Hollis + Miller Architects on August 31st, 2023, and all other applicable sections of the project manual and all other subcontract documents identified.

- Division 00
- Division 01
- 051200 – Structural Metal Framing
- 055000 – Metal Fabrications

JOB SPECIFIC SCOPE INCLUDES (but is not limited to):

1. All items per Master Scope of Work.
2. Furnish and install all structural and miscellaneous steel items and accessories. Including, but not limited to, steel lintels, angles, bollards, base plates, steel clips, bent plates, and edge angles.
3. Provide loose steel lintels at masonry. Installation to be by masonry subcontractor.
4. Provide welding of reinforcing steel-to-steel locations as indicated on the project documents.

The following work is excluded:

PROJECT: N3-0645
COST CODE: 06-1000**Liberty Public Schools Technology Remodel
06-1000 – General Trades Scope of Work****Specific scope of work to be performed:**

Provide all required labor, material, equipment, permits, freight, labor, and applicable taxes necessary for the **General Trades** Scope of Work complete as set forth in the drawings and specifications provided by Hollis + Miller Architects on August 31st, 2023, and all other applicable sections of the project manual and all other subcontract documents identified.

- Division 00
- Division 01
- 061000 – Rough Carpentry
- 062023 – Interior Finish Carpentry
- 066400 – Plastic Paneling
- 081113 – Hollow Metal Doors and Frames
- 081416 – Flush Wood Doors
- 084113 – Door Hardware (As Applicable)
- 097723 – Fabric-Wrapped Panels
- 101100 – Visual Display Units
- 101400 – Signage
- 101423 – ADA and Code Signage
- 102113 – Toilet Compartments
- 102600 – Wall and Door Protection
- 102800 – Toilet, Bath, and Laundry Accessories
- 104413 – Fire Extinguisher Cabinets
- 104416 – Fire Extinguishers
- 122113 – Horizontal Louver Blinds
- 123200 – Manufactured Wood Casework
- 123666 – Solid Surfacing Countertops

JOB SPECIFIC SCOPE INCLUDES (but is not limited to):

1. All items per Master Scope of Work.
2. Install all items noted to be provided by the owner.
3. Provide all wood blocking and nailers, wood sheathing, and plywood backing panels required per construction documents.
4. Provide access doors per the plans.
5. Furnish and install all hollow metal doors, door frames, flush wood doors and door hardware for all openings as indicated in the Contract Documents. Door frames scheduled to be installed in existing walls with no required masonry construction to be grouted by this Contractor.
6. Finish hardware at all doors by this scope of work.
 - a) This Contractor to supply the glazing Contractor all lock cores for aluminum doors.
7. Provide pathway and pull strings in doors/frames where access controls are required.
8. Provide doors that require electric operators with a single point of connection for electrical contractor to connect to. If doors require to be tied into Fire Alarm System that also will be a single point of connection for electrician.
 - a) Internal power and fire alarm wiring from a single point of connection would be by this package.

- b) Provide magnetic hold opens, and other control devices as required.
9. All in-wall and above ceiling blocking or support at all required locations per the Contract Documents. Blocking for AV equipment. This includes In-wall blocking required by future Owner provided items. Coordination required between individual Contractors.
 10. This scope of work to include temporary building enclosures at all window and door openings shown in the Contract Documents. This includes demoed portions of the existing building. Removal and disposal of the temporary protection at window locations to be done by the Glazing Contractor.
 11. Provide all manufactured wood casework, per project documents.
 12. Provide all solid surfacing countertops and windowsills, per project documents.
 13. Provide all plastic paneling required, per project documents.
 14. This contractor is to provide and install all fabric wrapped panel. Provide and install any blocking, clips, insulation, etc. required for a complete installation.
 15. This contractor is to provide all horizontal louver blinds, per project documents.
 16. This contractor is to provide all visual display surfaces, markerboards, clothing rods, steel cabinets, signage, toilet compartments and accessories, fire extinguishers and cabinets, and wall and door protection required per project documents. Install any blocking required for such.
 17. Provide and install all room signage, building signage, and specialty graphics. This includes any backing, z-clips, fasteners, etc. as required for complete installation.
 18. Include a \$20,000 allowance to be used as directed by the Construction Manager. Any unused portion will be returned to the Owner.

The Following Work is Excluded:

PROJECT: N3-0645
COST CODE: 07-1000**Liberty Public Schools Technology Remodel
07-1000–Joint Sealants and Waterproofing Scope of Work****Specific scope of work to be performed:**

Provide all required labor, material, equipment, permits, freight, labor, and applicable taxes necessary for the **Joint Sealants and Waterproofing** Scope of Work complete as set forth in the drawings and specifications provided by Hollis + Miller Architects on August 31st, 2023, and all other applicable sections of the project manual and all other subcontract documents identified.

- Division 00
- Division 01
- 072500 – Weather Barriers
- 072726 – Fluid-Applied Air Barrier Coatings
- 079200 – Joint Sealants
- 321373 – Concrete Paving Joint Sealants

JOB SPECIFIC SCOPE INCLUDES (but is not limited to):

1. All items per Master Scope of Work.
2. Joint Sealants, including but not limited to:
 - a) Concrete pavement and all exterior joints
 - b) Interior and exterior, perimeter of windows, entrances, and storefront systems
 - c) Cosmetic filling of interior joint locations around door and window frames, lintels and all places where dissimilar materials join together to form clean, sharp corners for paint applications to frames and walls.
 - d) All masonry horizontal and vertical joints.
 - e) Caulking and sealants at concrete paving, sidewalk, and miscellaneous sitework structures.
 - f) EIFS expansion joints.
3. Dampproofing, waterproofing, and air barrier systems, including but not limited to:
 - a) Preparation and verification of substrate
 - b) Termination bars and reglets as required to terminate the system.
4. Provide an allowance of \$7,500 to be used at the direction of the construction manager. Any unused portions will be returned to the owner.

The following work is excluded:

1. Sealants at plumbing fixtures – By Plumbing Subcontractor
2. Sealants within Glazing Systems – By Glazing Subcontractor

PROJECT: N3-0645
COST CODE: 07-8400**Liberty Public Schools Technology Remodel
07-8400–Firestopping Scope of Work****Specific scope of work to be performed:**

Provide all required labor, material, equipment, permits, freight, labor, and applicable taxes necessary for the **Firestopping** Scope of Work complete as set forth in the drawings and specifications provided by Hollis + Miller Architects on August 31st, 2023, and all other applicable sections of the project manual and all other subcontract documents identified.

- Division 00
- Division 01
- 078413 – Penetration Firestopping
- 078446 – Fire-Resistive Joint Systems

JOB SPECIFIC SCOPE INCLUDES (but is not limited to):

1. All items per Master Scope of Work.
2. Penetration Firestopping per specifications.
3. Firestopping & Joint Systems per specifications.
4. Cleaning of substrate and surface preparation to a level acceptable for installation of materials provided under this Scope.
5. Primers, adhesives, mastics, reinforcing sheets, and any special coatings to span cracks in surfaces to receive materials provided under this Scope of Work.
6. Any testing required for moisture content, concrete alkalinity, etc. that may be required.
7. Ensure compatibility of materials provided under this scope of work with sealers, curing compounds, etc. used on substrates for which material will be installed.
8. Provide UL labeling of all rated penetration assemblies with UL System information.
9. Provide all UL assembly information and Engineering Judgements to the third-party inspector for preliminary review and verification of code compliance.
10. Provide UL rated putty pads as required for electrical boxes in rated walls.
11. Fire rated sealants at expansion joints and joints between dissimilar materials including, but not limited to masonry, precast, punched window frames, metal panels, drywall, etc.
12. Schedule all third-party inspections as required by code with the Owner selected testing agency.
13. Contractor shall obtain all permits required to complete this work, except for the general building permit.

The Following Work is Excluded:

PROJECT: N3-0645
COST CODE: 08-8000**Liberty Public Schools Technology Remodel
08-8000–Glazing Scope of Work****Specific scope of work to be performed:**

Provide all required labor, material, equipment, permits, freight, labor, and applicable taxes necessary for the **Glazing** Scope of Work complete as set forth in the drawings and specifications provided by Hollis + Miller Architects on August 31st, 2023, and all other applicable sections of the project manual and all other subcontract documents identified.

- Division 00
- Division 01
- 024100 – Selective Demolition (As Applies)
- 076200 – Sheet Metal, Flashing, and Trim
- 079200 – Joint Sealants (As Applicable)
- 084113 – Aluminum Frames Entrances and Storefronts
- 085613 – Transaction Windows
- 087100 – Door Hardware (As Applicable)
- 088000 – Glazing

JOB SPECIFIC SCOPE INCLUDES (but is not limited to):

1. All items per Master Scope of Work.
2. Provide all glass and glazing including, but not limited to: storefronts, aluminum entries, clear fully-tempered float glass, laminated security glass, insulated glass, insulated fully-tempered glass, applied security films, fire protective glass, etc per the Contract Documents. The General Trades contractor will be responsible for all framed mirrors.
3. Provide all sill, jamb, and head flashing / counter flashing at aluminum windows or storefront systems, break metal, aluminum, metal trim, supports, embedded items in concrete/masonry, frames, brackets, clips, anchors, fasteners, etc. needed for this scope of work as shown on drawings, or required by the manufacturer.
4. All joint sealants required within the glazing systems.
5. Coordinate final electrical and security connections with corresponding trades.
6. Provide and install all hardware at all aluminum doors.
7. Temporary construction cores for all hardware installed by this scope of work during construction and removed as directed by Contractor.
8. All openings to be field verified by this scope of work.
9. Include removal of temporary protection at exterior window systems prior to glazing systems installations. Temporary protection materials to be disposed of on-site dumpsters provided by Contractor.
10. Remove all labels from glass.
11. Hardware required at Aluminum Doors is by this Contractor. The General Trades Contractor to provide all lock cores for all aluminum doors. All electronic access control hardware and low voltage wiring to be provided by the Electrical Contractor. Electrified panic devices / strikes are not considered access control and must be installed by this Contractor, with wiring by others.
12. Provide pathway and pull strings in doors/frames where access controls are required.
13. Provide doors that require electric operators with a single point of connection for electrical contractor to connect to. If doors require to be tied into Fire Alarm System that also will be a single point of connection for electrician.
 - a) Internal power and fire alarm wiring from a single point of connection would be by this package.

The following work is excluded:

PROJECT: N3-0645
COST CODE: 09-2000**Liberty Public Schools Technology Remodel
09-2000–Framing, Drywall, and Acoustical Ceilings Scope of Work****Specific scope of work to be performed:**

Provide all required labor, material, equipment, permits, freight, labor, and applicable taxes necessary for the **Framing, Drywall, and Acoustical Ceilings** Scope of Work complete as set forth in the drawings and specifications provided by Hollis + Miller Architects on August 31st, 2023, and all other applicable sections of the project manual and all other subcontract documents identified.

- Division 00
- Division 01
- 054000 – Cold-Formed Metal Framing
- 072419 – Exterior Insulation and Finish System (EIFS)
- 074400 – Concrete Faced Rigid Insulation
- 092116 – Non-Structural Metal Framing
- 092900 – Gypsum Board
- 095113 – Acoustical Panel Ceilings

JOB SPECIFIC SCOPE INCLUDES (but is not limited to):

1. All items per Master Scope of Work.
2. Provide gypsum wallboard assemblies including but not limited to metal stud framing, furring channels, light gauge trusses, bracing, and slip track.
3. All cold formed metal framing.
4. Building expansion joint assemblies for all interior horizontal and vertical expansion joints. Includes floor and ceiling expansion joints. Includes interior fire-rated expansion joint assemblies.
5. Acoustical ceiling system including but not limited to, suspension system including hangers and wire, metal grid system, acoustical ceiling tile, seismic wiring for lighting, vertical / horizontal closures where ceilings do not terminate at walls, expansion / control joints etc.
6. Cut outs in acoustical ceilings for other trades. Scope includes layout, protection of materials and finishes, and handling and distribution of materials throughout the project.
7. Coordinate all ceiling work with all mechanical, plumbing, and electrical trade penetrations. The Subcontractor will include all additional tees, runners, hangers, tie wires, and filler tiles for the installation of light fixtures, sprinkler heads, diffusers, grilles, etc
8. Framing/block outs for through-wall penetrations.
9. Acoustical sealants and sealants at tops of walls and penetrations as required for non-fire rated acoustical applications.
10. Provide and install all mineral wool insulation where stud wall abuts metal deck and insulation between metal studs.
11. Include a \$100,000 allowance for repair of existing EIFS systems. No other EIFS scope to be included in bid.

The following work is excluded:

1. Fire Stopping – By Joint Sealant Subcontractor and/or MEP Subcontractors

PROJECT: N3-0645
COST CODE: 09-3000**Liberty Public Schools Technology Remodel
09-3000–Tiling Scope of Work****Specific scope of work to be performed:**

Provide all required labor, material, equipment, permits, freight, labor, and applicable taxes necessary for the **Tiling** Scope of Work complete as set forth in the drawings and specifications provided by Hollis + Miller Architects on August 31st, 2023, and all other applicable sections of the project manual and all other subcontract documents identified.

- Division 00
- Division 01
- 093000 – Tiling

JOB SPECIFIC SCOPE INCLUDES (but is not limited to):

1. All items per Master Scope of Work.
2. Provide and install all tile, tile base, setting materials, grout materials, crack isolation and waterproof membrane, and edge strips as shown on drawings or stated in specifications.
3. Provide all wall preparation, wall sanding, cleaning, etc. necessary for installing this packages work. This work includes any wall fill or leveling compounds required at all wall joints.
4. Provide all transitions at dissimilar materials.
5. Final clean of all surfaces installed by this scope of work upon completion of installation.

The Following Work is Excluded:

PROJECT: N3-0645
COST CODE: 09-6000**Liberty Public Schools Technology Remodel
09-6000–Resilient Flooring and Carpet Scope of Work****Specific scope of work to be performed:**

Provide all required labor, material, equipment, permits, freight, labor, and applicable taxes necessary for the **Resilient Flooring and Carpet** Scope of Work complete as set forth in the drawings and specifications provided by Hollis + Miller Architects on August 31st, 2023, and all other applicable sections of the project manual and all other subcontract documents identified.

- Division 00
- Division 01
- 096513 – Resilient Base and Accessories
- 096513 – Resilient Tile Flooring
- 096813 – Tile Carpeting

JOB SPECIFIC SCOPE INCLUDES (but is not limited to):

1. All items per Master Scope of Work.
2. Perform proper testing to ensure product manufacturer requirements are met before proceeding with installation.
3. All floor and wall preparation as required for a complete installation.
4. Provide resilient base, resilient flooring, and all accessories for a complete installation.
5. Provide all carpet per the Contract Documents.
6. Clean concrete floor (as required for acceptable substrate) prior to installation of all types of flooring.
7. Floor preparation as required to complete the scope of work. Floor leveling as required of floors within construction tolerances. Floor preparation includes concrete joints, repair of chips or dings, and any deviation in elevation outside the specified levels. Floor preparation includes transitions between rooms, doorways, and transitions from new to existing, etc.
8. Edge/transition/reducer strips, metal termination strips between flooring materials, primers, adhesives and other miscellaneous items required for a complete installation. This scope also includes any Portland based floor fill or leveling compound required at all floor joints.
9. Final cleaning of flooring upon completion of installation.

The following work is excluded:

1. Resinous Flooring – Resinous Flooring Contractor
2. Concrete Finish Flooring- Painting Subcontractor

PROJECT: N3-0645
COST CODE: 09-6700**Liberty Public Schools Technology Remodel
09-6700–Resinous Flooring Scope of Work****Specific scope of work to be performed:**

Provide all required labor, material, equipment, permits, freight, labor, and applicable taxes necessary for the **Resinous Flooring** Scope of Work complete as set forth in the drawings and specifications provided by Hollis + Miller Architects on August 31st, 2023, and all other applicable sections of the project manual and all other subcontract documents identified.

- Division 00
- Division 01
- 096723 – Resinous Flooring

JOB SPECIFIC SCOPE INCLUDES (but is not limited to):

1. All items per Master Scope of Work.
2. Perform proper testing to ensure product manufacturer requirements are met before proceeding with installation.
3. Provide resinous floor, base, and coating systems per the Contract Documents. Include all accessories for a complete installation.
4. All preparation as required. Preparation includes concrete joints, repair of normal chips or dings, and any other deviation within subfloor and concrete tolerances per the Contract Documents. This also includes transitions between rooms, doorways, etc.
5. Perform final cleaning upon completion of installation.
6. Provide Transitions and terminations at all dissimilar materials.

The Following Work is Excluded:

PROJECT: N3-0645
COST CODE: 09-9000**Liberty Public Schools Technology Remodel
09-9000–Painting Scope of Work****Specific scope of work to be performed:**

Provide all required labor, material, equipment, permits, freight, labor, and applicable taxes necessary for the **Painting** Scope of Work complete as set forth in the drawings and specifications provided by Hollis + Miller Architects on August 31st, 2023, and all other applicable sections of the project manual and all other subcontract documents identified.

- Division 00
- Division 01
- 099113 – Exterior Painting
- 099123 – Interior Painting
- 099600 – High-Performance Coatings

JOB SPECIFIC SCOPE INCLUDES (but is not limited to):

1. All items per Master Scope of Work.
2. Provide all painting including, but not limited to surface preparation, priming, and finish coats to surfaces indicated. All surfaces exposed to view shall be painted, except as noted, including access panels, surfaces of mechanical and electrical equipment that do not have factory applied finishes, as shown in the Contract Documents.
3. Interior painting of all mechanical and electrical rooms as scheduled.
4. Painting of hollow metal frames.
5. Painting of metal decking, beams, columns, lintels, joists and any other exposed miscellaneous steel per the Contract Documents.
6. Painting of exterior railings, fences, bollards, gates, guards, door/window frames, and all other exterior painted items as indicated on the Contract Documents.
7. All sealed concrete finished floor are by this package.
8. Masking at all labels on mechanical equipment prior to painting.
9. All cleaning and surface preparation required for the coating
10. Include touch-up painting for punch list items and trade damage. At completion of construction activities by other trades, touch up and restore damaged or defaced painted surfaces. Change orders will not be written for touch up.
11. Furnish and install protection of concrete and finished flooring from paint overspray. Remove any overspray onto concrete floors is required prior to installation of flooring material.
12. Include a \$25,000 allowance for paint work as directed by the Contractor. This is not for punch list or touch up activities. Any unused portion will be returned to the Owner.

The following work is excluded:

PROJECT: N3-0645
COST CODE: 22-1000**Liberty Public Schools Technology Remodel
22-1000–Plumbing Scope of Work****Specific scope of work to be performed:**

Provide all required labor, material, equipment, permits, freight, labor, and applicable taxes necessary for the **Plumbing** Scope of Work complete as set forth in the drawings and specifications provided by Hollis + Miller Architects on August 31st, 2023, and all other applicable sections of the project manual and all other subcontract documents identified.

- Division 00
- Division 01
- 024100 – Selective Demolition (As Applies)
- 220500 - Common Work Results for Plumbing
- 220510 - Common Motor Requirements for Plumbing Equipment
- 220516 - Expansion Fittings and Loops for Plumbing Piping
- 220519 - Meters and Gauges for Plumbing Piping
- 220523 - General Duty Valves for Plumbing Piping
- 220529 - Hangers and Supports for Plumbing Piping and Equipment
- 220553 - Identification for Plumbing Piping and Equipment
- 220719 - Plumbing Piping Insulation
- 221116 - Domestic Water Piping
- 221119 - Domestic Water Piping Specialties
- 221123 - Domestic Water Piping Pumps
- 221316 - Sanitary Waste and Vent Piping
- 221319 - Sanitary Waste Piping Specialties
- 223300 - Electric, Domestic-Water Heaters
- 224000 - Plumbing Fixtures
- 224700 - Drinking Fountains/Water Coolers

JOB SPECIFIC SCOPE INCLUDES (but is not limited to):

1. All items per Master Scope of Work.
2. Provide cut, cap, and make safe for all plumbing demo.
3. Provide complete plumbing system as indicated on the Contract Documents, including but not limited to:
 - a) Excavation as required to complete this Scope of Work.
 - b) Insulation
 - c) Gravel bedding and approved backfill
 - d) Caulking of all plumbing fixtures.
 - e) All condensate piping.
 - f) Drip pans as required.
 - g) Connections to all equipment within other sections or furnished by owner.
4. Provide and install all regulators, equipment, materials, labor, etc. necessary for the complete installation of the gas piping.
5. Provide testing of all items within this scope of work as required.
6. This Contractor shall be responsible for protection of all floor drains, floor sinks, and cleanout covers until project completion.
7. Access doors required by this scope of work, not shown in the Contract Documents are to be provided by this scope of work. Lockable and rated where required.



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8. Provide and install plumbing rough-in and final hookup for residential appliances.
9. Provide an allowance equal to \$10,000 to be used at the direction of the construction manager. Any unused portions will be returned to the owner.

The following work is excluded:

PROJECT: N3-0645
COST CODE: 23-3000**Liberty Public Schools Technology Remodel
23-3000–HVAC Scope of Work****Specific scope of work to be performed:**

Provide all required labor, material, equipment, permits, freight, labor, and applicable taxes necessary for the **HVAC** Scope of Work complete as set forth in the drawings and specifications provided by Hollis + Miller Architects on August 31st, 2023, and all other applicable sections of the project manual and all other subcontract documents identified.

- Division 00
- Division 01
- 024100 – Selective Demolition (As Applies)
- 230500 - Common Work Results for HVAC
- 230529 - Hangers and Supports for HVAC Piping and Equipment
- 230553 - HVAC System Identification
- 230593 - Testing, Adjusting, and Balancing for HVAC
- 230713 - Duct Insulation
- 230719 - HVAC Piping Insulation
- 230900 - Instrumentation and Control for HVAC
- 232113 - Hydronic Piping
- 232300 - Refrigerant Piping
- 233113 - Metal Ducts
- 233300 - Duct Accessories
- 233416 - Centrifugal HVAC Fans
- 233600 - Air Terminal Units
- 233713 - Diffusers, Registers, and Grilles
- 236200 - Packaged Compressor and Condenser Units
- 237313 - .13 Indoor, Basic Air-Handling Units
- 238123 - .18 Computer-Room, Rack-Cooling Equipment
- 238239 - Cabinet Unit Heaters

JOB SPECIFIC SCOPE INCLUDES (but is not limited to):

1. All items per Master Scope of Work.
2. Provide cut, cap, and make safe of mechanical equipment to demo.
 - a) Provide refrigerant evac of existing equipment for demo.
3. Provide complete HVAC system as indicated in the Contract Documents, including but not limited to:
 - a) Mechanical equipment, boxes, etc.
 - b) Insulation as it relates to this scope of work.
 - c) HVAC Piping
 - d) All ductwork
 - e) Louvers, Diffusers, grilles, registers, dampers
 - f) Testing and balancing
 - g) Connections to all equipment within other sections, items furnished by owner, or existing HVAC equipment.
4. Temperature controls systems complete, including but not limited to
 - a) Provide special back boxes if required.
 - b) Provide all BAS panels as required.
 - c) Adjustments to all mechanical systems during and after fire alarm systems testing.

- d) Low voltage control and interlock wiring, devices, software, and programming.
- e) Electrical Contractor to provide conduit and raceway.
- 5. HVAC Equipment will be used for temporary conditioning during construction, including but not limited to:
 - a) Multiple startups
 - b) Temporary construction thermostats and controls. Tie into temporary emergency dialer provided by electrical Contractor.
 - c) Operational safety shut downs for hi / low temperature, pressure, and smoke.
 - d) Filter shanges and cleaning as required, minimum every month.
 - e) Provide final filter changes and cleaning at completion.
 - f) Clean and refurbish all equipment used for temporary conditioning to an "as new" condition.
 - g) Compelte warranty starting at Substantial Completion date of project.
 - h) Include extended warranty as required for operating during construction.
- 6. Install duct detectors furnished by the electrical Contractor. The electrical Contractor is responsible for final connectins of these devices.
- 7. Any additional access doors required by this scope of work but not shown in the Contract Documents shall be by this scope of work. Lockable and rated where required.
- 8. Provide an allowance equal to \$10,000 to be used at the direction of the construction manger. Any unused portions will be returned to the owner.

The following work is excluded:

- 1. Furnishing Duct Smoke Detectors – By Electrical Contractor
- 2. Concrete Equipment Pads – By Concrete Contractor
- 3. Condensing Unit Piping- Plumbing Contractor

PROJECT: N3-0645
COST CODE: 26-1000**Liberty Public Schools Technology Remodel
26-1000–Electrical Scope of Work****Specific scope of work to be performed:**

Provide all required labor, material, equipment, permits, freight, labor, and applicable taxes necessary for the **Electrical** Scope of Work complete as set forth in the drawings and specifications provided by Hollis + Miller Architects on August 31st, 2023, and all other applicable sections of the project manual and all other subcontract documents identified.

- Division 00
- Division 01
- 024100 – Selective Demolition (As Applies)
- 260010 - Supplemental Requirements for Electrical
- 260519 - Low-Voltage Electrical Power Conductors and Cables
- 260526 - Grounding and Bonding for Electrical Systems
- 260529 - Hangers and Supports for Electrical Systems
- 260533 - .13 Conduits for Electrical Systems
- 260533 - .16 Boxes and Covers for Electrical Systems
- 260536 - Cable Trays for Electrical Systems
- 260544 - Sleeves and Sleeve Seals for Electrical Raceways and Cabling
- 260553 - Identification for Electrical Systems
- 260923 - Lighting Control Devices
- 262416 - Panelboards
- 262716 - Electrical Cabinets and Enclosures
- 262726 - Wiring Devices
- 262816 - Enclosed Switches and Circuit Breakers
- 263213.13 - Diesel-Engine-Driven Generator Sets
- 263600 - Transfer Switches
- 265119 - LED Interior Lighting
- 280500 - Common Work Results for Electronic Safety and Security
- 280513 - Conductors and Cables for Electronic Safety and Security
- 283111 - Digital, Addressable Fire-Alarm System

JOB SPECIFIC SCOPE INCLUDES (but is not limited to):

1. All items per Master Scope of Work.
2. Provide all demolition as follows:
 - a) Perform all cut, cap, make safe for demo activities.
 - b) Make safe all devices in walls or ceilings for demo.
 - Remove any electrical devices in walls/ceiling not called out to demo.
3. Provide conduit raceways and sleeves for the following systems, including but not limited to:
 - a) Temperature Control
 - b) Building Automation System
 - c) Data / communications
 - d) In-wall conduit and openings in masonry walls with masonry contractor. If this contractor fails to coordinate they will be responsible for core drilling, saw cutting, etc. and patch back. There is to be no wall mounted conduit unless specifically noted.

- e) This contractor is to provide any sleeves required for in-wall or underslab work.
- 4. Fire Alarm System complete, including but not limited to:
 - a) Furnish of duct detectors. Include final connection and testing. Installation to be my Mechanical Subcontractor.
 - b) Provide and install all new audio/visible devices. If existing device is deemed re-usable by district, provide credit for new device.
 - c) Testing of all systems
 - d) System shall interface with security electronics systems. Coordinate with security electronics subcontractor. Provide fire alarm system programming and auxiliary contracts as required to allow for fire alarm annunciation/control from the security electronics control panels as specified.
 - e) Provide input and output modules for all equipment that must be monitored/controlled for the purpose of smoke evacuation/pressurization.
 - f) Provide all fire alarm wiring including control and monitoring wire from each input/output module to its corresponding piece of smoke evacuation equipment.
 - g) Testing for fire alarm system in conjunction with HVAC contractor, electrical contractor and general contractor to verify accurate function of smoke evacuation/pressurization systems.
 - h) Provide and connect magnetic door holds devices for control. Connect to fire alarm system for monitoring.
- 5. Electrical service to other MEPT systems, including but not limited to:
 - a) Line voltage interlock wiring for mechanical system
 - b) Starters and disconnect switches
 - c) Unit heaters
 - d) Plumbing fixtures
 - e) Duct detectors
- 6. Provide AV system per the contract documents, including but not limited to:
 - a) Cable tray
 - b) Sleeves & sleeve seals
 - c) Enclosures for underground data transition
 - d) Boxes and conduit
 - e) Cabling
 - f) Devices
- 7. Provide and install all power requirements and electrical connections to all equipment, furnishings, etc. requiring electric power including but not limited to, indicated or not indicated – handicap assist door operators, magnetic hold-open devices, all disconnects, other systems requiring power, etc.
- 8. Provide and install all electronic security devices/systems as required by contract documents.
- 9. Install exterior diesel generator and pad mount transformer. - Generator furnished by Owner and delivered to site.
 - a) Provide hoisting / rigging as needed to set generator on pad.
- 10. Provide and install all access control devices, etc. complete.
- 11. Provide and install all video surveillance devices, etc. complete.
- 12. This contractor will be required to pull permits for all work as required.
- 13. Schedule and attend all necessary inspections associated with this scope of work.
- 14. Provide an allowance of \$15,000 to be used as directed by construction manager. Any unused portions will be returned to the owner.

The following work is excluded:

- 1. Diesel Generator provided by Owner.

PROJECT: N3-0645
COST CODE: 27-1000**Liberty Public Schools Technology Remodel
27-1000–Communications Scope of Work****Specific scope of work to be performed:**

Provide all required labor, material, equipment, permits, freight, labor, and applicable taxes necessary for the **Communications** Scope of Work complete as set forth in the drawings and specifications provided by Hollis + Miller Architects on August 31st, 2023, and all other applicable sections of the project manual and all other subcontract documents identified.

- Division 00
- Division 01
- 270010 - Supplemental Requirements for Communications
- 271100 - Communications Equipment Room Fittings
- 271513 - Communications Copper Horizontal Cabling

JOB SPECIFIC SCOPE INCLUDES (but is not limited to):

1. All items per Master Scope of Work.
2. Provide communications system per the contract documents, including but not limited to:
 - a) Cable tray
 - b) Sleeves & sleeve seals
 - c) Enclosures for underground data transition
 - d) Boxes and conduit
 - e) Cabling
 - f) Devices
3. Provide and install all access control communications cabling.
4. Provide and install all video surveillance communications cabling.
5. This contractor will be required to pull permits for all work as required.
6. Provide an allowance of \$10,000 to be used as directed by construction manager. Any unused portions will be returned to the owner.

The following work is excluded:



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PROJECT NUMBER: N3-0645

COST CODE: 32-3100

**Liberty Public Schools Technology Remodel
32-3100–Fencing and Gates Scope of Work**

Specific scope of work to be performed:

Provide all required labor, material, equipment, permits, freight, labor, and applicable taxes necessary for the **Fencing and Gates** Scope of Work complete as set forth in the drawings and specifications provided by Hollis + Miller Architects on August 31st, 2023, and all other applicable sections of the project manual and all other subcontract documents identified.

- Division 00
- Division 01
- 323113 – Chain Link Fences and Gates
- 323119 – Decorative Metal Fences and Gates

JOB SPECIFIC SCOPE INCLUDES (but is not limited to):

1. All items per Master Scope of Work.
2. Provide all fencing per contract documents.
3. Include all excavation, anchors, core drill, grout, concrete, and drilling for a complete installation.

The Following Work is Excluded:

PROJECT: N3-0645
COST CODE: 32-8000**Liberty Public Schools Technology Remodel
32-8000–Landscaping Scope of Work****Specific scope of work to be performed:**

Provide all required labor, material, equipment, permits, freight, labor, and applicable taxes necessary for the **Landscaping** Scope of Work complete as set forth in the drawings and specifications provided by Hollis + Miller Architects on August 31st, 2023 and all other applicable sections of the project manual and all other subcontract documents identified.

- Division 00
- Division 01

JOB SPECIFIC SCOPE INCLUDES (but is not limited to):

1. All items per Master Scope of Work.
2. Provide all Landscaping as shown on drawings complete, including but not limited to:
 - a) Provide temporary water and maintenance as specified to all areas that receive landscaping to establish growth.
3. Provide final grade / box grading of planting areas.

The Following Work is Excluded:

PROJECT: N3-0645
COST CODE: 33-1000**Liberty Public Schools Technology Remodel
33-1000–Site Utilities Scope of Work****Specific scope of work to be performed:**

Provide all required labor, material, equipment, permits, freight, labor, and applicable taxes necessary for the **Site Utilities** Scope of Work complete as set forth in the drawings and specifications provided by Hollis + Miller Architects on August 31st, 2023, and all other applicable sections of the project manual and all other subcontract documents identified.

- Division 00
- Division 01
- 321216 - Asphalt Paving (As it Applies)
- 334100 – Storm Utility Drainage Piping

JOB SPECIFIC SCOPE INCLUDES (but is not limited to):

1. All items per Master Scope of Work.
2. Demolition of asphalt paving to allow for drainage piping installation
3. Provide all Storm lines and drain basins including but not limited to, connection to existing lines, piping and all associated appurtenances and structures for a complete system. Provide all backfill after installation of site utilities.
4. Provide grading and earthwork as noted on plans after installation of drains.
5. Provide patch back of asphalt removed as part of this scope of work.
6. This Contractor will be responsible for removal of all spoils related to this scope of work.

The Following Work is Excluded:

1. Patch Back of Sidewalk removed for install of drainage piping- Concrete Subcontractor
2. Patch of Asphalt Paving removed for install of drainage piping – Asphalt Subcontractor

ADDENDUM NO. 01

Issued: 10/20/2023

Project: Liberty | District Technology Remodel
1000 Kent Street, Liberty, MO 64068

Project No. 23022

Owner: Liberty Public Schools
8 Victory Lane
Liberty, MO 64068

Bidding Documents Issued: 10/17/2023 (dated 08/31/2023)

This Addendum includes this 1 page and the following attachments:

Supplemental Information:

Newkirk Novak Addendum #1 dated October 20, 2023.
Pre-Bid Meeting Minutes and attendance roster.

Project Manual:

Refer to Smith & Boucher, MEP Addendum No. 1

Drawings:

Revised Architectural Sheets: AS101.
Refer to Smith & Boucher, MEP Addendum No. 1

DRAWINGS REVISIONS

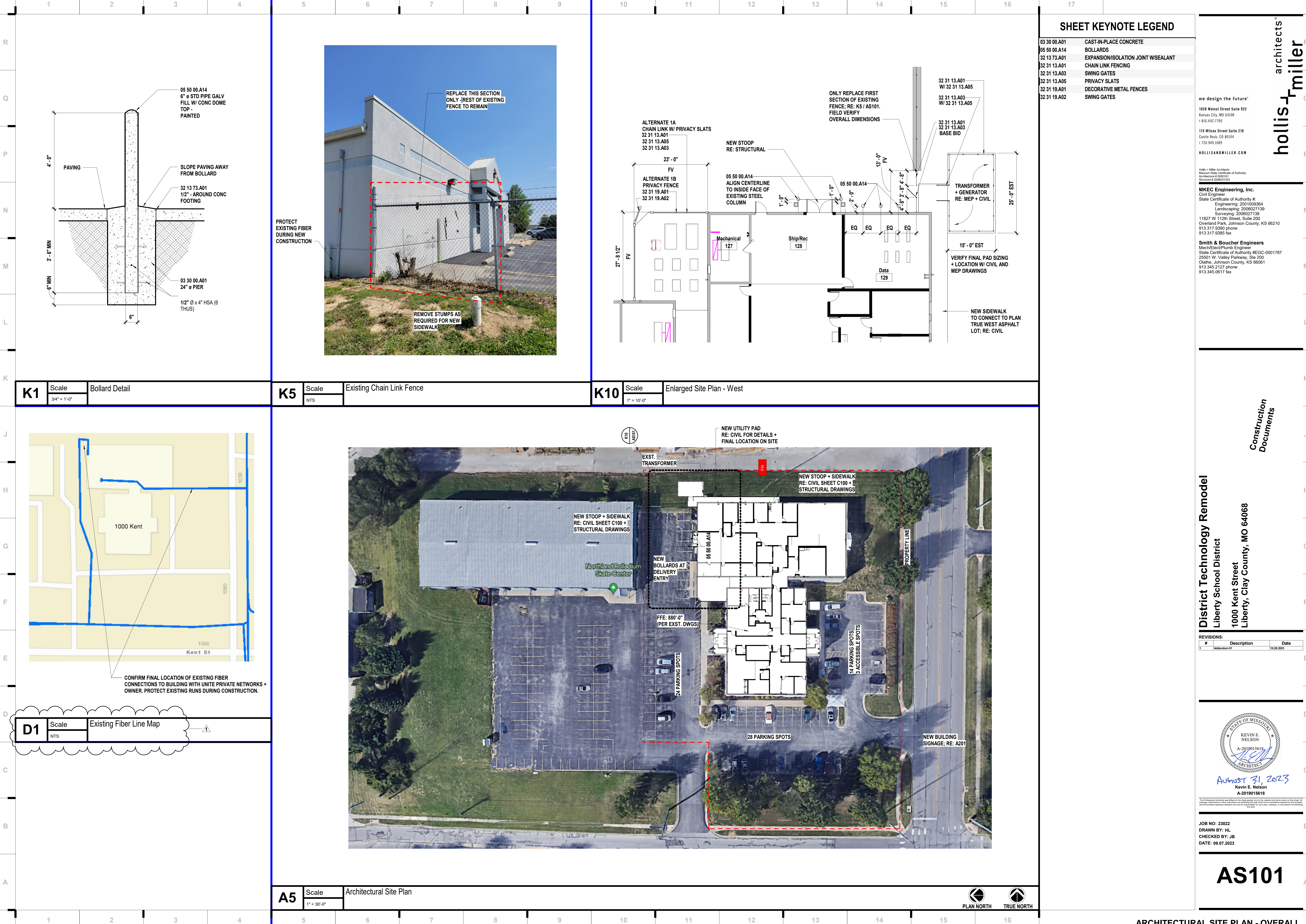
A1 SHEET AS101 – ARCHITECTURAL SITE PLAN - OVERALL

A1.1 REPLACE Sheet AS101, with attached Sheet AS101, dated 10/20/2023. ADDED view D1 to clarify existing fiber line locations.

E1 REFERENCE ATTACHED MEP ADDENDUM NO. 1

END OF ADDENDUM NO. 01





SHEET KEYNOTE LEGEND	
03 30 00.A01	CAST-IN-PLACE CONCRETE
05 50 00.A14	BOLLARDS
32 13 73.A01	EXPANSION/ISOLATION JOINT W/SEALANT
32 31 13.A01	CHAIN LINK FENCING
32 31 13.A03	SWING GATES
32 31 13.A05	PRIVACY SLATS
32 31 19.A01	DECORATIVE METAL FENCES
32 31 19.A02	SWING GATES

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Kansas City, MO 64108
1 816.442.7700

115 Wilcox Street Suite 210
Castle Rock, CO 80104
1 720.949.1689

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Hollis + Miller Architects
Missouri State Certificate of Authority
Architecture # 00001651
Structural # 200601333

MKEC Engineering, Inc.
Civil Engineer
State Certificate of Authority #:
Engineering: 2001009364
Landscaping: 2006027139
Surveying: 2006027139
11827 W 112th Street, Suite 200
Overland Park, Johnson County, KS 66210
913.317.5380 phone
913.317.9385 fax

Smith & Boucher Engineers
Mech/Elect/Plumb Engineer
State Certificate of Authority #ECC-0001787
25501 W. Valley Parkway, Ste 200
Olathe, Johnson County, KS 66061
913.345.2127 phone
913.345.0617 fax

District Technology Remodel
Liberty School District
1000 Kent Street
Liberty, Clay County, MO 64068

REVISIONS:		
#	Description	Date
1	Amendment 01	10.20.2023



August 31, 2023
Kevin E. Nelson
A-2019015618

JOB NO: 23022
DRAWN BY: HL
CHECKED BY: JB
DATE: 09.07.2023

AS101

ARCHITECTURAL SITE PLAN - OVERALL

Please consider the environment before printing this.

**Liberty School District Technology Remodel
Smith & Boucher Project No. 2314706**

10/20/2023

To Documents Titled:
District Technology Remodel
8/31/2023

Architect-of-Record:
Hollis and Miller
1828 Walnut Street Suite 922
Kansas City, MO 64108

The Contract Documents for the above referenced project and the Work covered thereby are modified as described herein.

DRAWINGS

1. Sheet E201 – POWER PLAN – LEVEL 1
 - a. General note added to TV receptacles.
 - b. Circuiting added to the break room above counter receptacles.
 - c. Quad receptacle added to Future Build 137a.
 - d. Generator annunciator panel moved to Office 131.
 - e. Technology 130 devices and racks revised, duplex receptacle added.
 - f. Duplex receptacle added to Office 131 for the door control panel.
2. Sheet E304 – ELECTRICAL – SCHEDULES AND DETAILS
 - a. Prescolite series LFR-4RD-M has been added as an approved equal for the type C and CE light fixture.
 - b. Light Streams #MLS2-WD1, Prudential #BPR02-LIN and Litecontrol #2L-W-ID have been added as an approved equal for the type D light fixture.
 - c. ILP series WPCS has been added as an approved equal for the type G light fixture.
 - d. Emergi-lite series CM-PB-EL has been added as an approved equal for the type E light fixture.
 - e. Occupancy Sensor Schedule: Type OS-3 model has been revised to be Leviton #ODD10-IDW or equal.
3. Sheet ES101 – ELECTRONIC SECURITY PLAN – LEVEL 1
 - a. Door lock connection and card reader removed at the door to Sm Conference 101.
 - b. Door lock connection and card reader added at the door to FA Open Office 103.
 - c. Motion sensor added to FA Workshop 107.
 - d. Camera moved in KZ Storage 111.
 - e. Camera added to Corridor 121.
 - f. Device layout revised in Technology 130.
 - g. Door lock connection and card reader added at the door to Secure Storage 125.
 - h. Plan note added for wiring between the door lock panels in Technology 130 and Mechanical 113.
4. Sheet LV101 – TELECOMMUNICATIONS PLAN – LEVEL 1
 - a. Door lock connection and card reader removed
 - b. TV Outlet Detail added, plan note references added to the TV locations.
 - c. Cable tray size revised, note for EZ path fire stop added at penetrations of fire rated walls.
 - d. Data outlets added for the DDC panel in Mechanical 113.
 - e. Generator annunciator panel location moved.
 - f. Data outlets added for the door control panel in Office 131.
 - g. Device layout revised in Technology 130.
 - h. Grounding bus bar added to Data 129 and Technology 130.
 - i. Data outlets added to the generator control panel.
 - j. Ladder rack plan added for Data 129 and Technology 130.

SPECIFICATIONS

1. Specification section 270000 has been added.

Attachments

- E201, ES101, LV101, specification section 270000

END OF MEP ITEMS FOR ADDENDUM NO. 1

SECTION 270000 - DISTRICT COMMUNICATIONS SPECIFICATIONS

PART 1 - GENERAL

1.1 SCOPE OF SERVICES

- A. Fiber optic Cabling: Fiber will be installed connecting the Main Distribution Frame (MDF) to the IDF with 12-filament multi-mode fiber. Superior Essex Plenum, armored 12 strand OM4 fiber is L4012P401. Fiber to be terminated in Corning-C CCH-02U 24/96 F Rack-MT Enclosure 19" 2U. Two enclosures will be required. One for the MDF and one for the IDF. Connections will be made using LC fiber bulkheads Corning-C CCH-CS12-E4-P00QE Pigtail CCH Pigtailed Cassette 12 Fiber OM4 LC DUPL CCH-CS12-E4-P00QE. 12-filament single mode fiber cabling and 12-filament multi-mode fiber will be installed from the mechanical room to the MDF: Fiber will be installed with 12-filament single Loose Tube Single Jacket All Dielectric mode fiber. Superior Essex part number 110122T01 and connected using Corning-C CCH-CS12-A9-P00RE CCH Splice cassette OS2 Loaded panel and Pigtails, 12F LC-Duplxcch-cs12-A9-P00RE. The multi-mode part number is referenced above. Fiber enclosure for mechanical room is part number Corning WCH-04P. Plywood (3/4") will need to be installed for enclosure to mount to. 2'x2' or 4'x4' should work. Utilize one multimode cassette and one single mode cassette referenced above. Also, use single mode and multi-mode fiber referenced above.
- B. Copper Cabling: CMP 66-240-xB. Cat 6 Superior Essex Datagain 6+, Plenum rated blue part number: 66-240-2B where noted.
- C. Cabling: CMP 6H-272-xB. Cat 6A Superior Essex, Plenum rated blue part number: 6H-272-2B where noted.
- D. Cable Management
1. A cable pass through box will need to be installed between the MDF and IDF as identified on the plans. Use EZ Path Series 22 fire-rated pathway, number as indicated on the plans.
 2. No electrical tape or zip ties for bundling cables or attaching to j-hooks.
 3. Black plenum rated Velcro strips only for bundling cable.
 4. On the 48-port patch panels, both cable management bars are to be installed and utilized.
 5. On all cable terminations, stuffer caps are required at the field and closet locations.
 6. When dressing cables on the back of the patch panels, half of the cables will run down the left side and the other half down the right side of the rack.
 7. New cables that are damaged during installation, such as a sliced or cut, even if they pass testing, must be replaced and tested and the old cabling removed.
 8. Damage to other cabling or systems not part of this project must be remedied by the vendor utilizing authorized vendors and/or cabling approved by the District at no cost to the District.
 9. During installation of new cabling, ceiling tiles along artery routes are to be left open until inspected by District Technology staff. Damaged tile and/or grid will need to be replaced by the vendor and will need to match existing tile and grid. Vendors will be responsible for closing all ceiling tiles after District inspections.
 10. Old Ethernet, fiber and enclosures, where applicable, not used will need to be removed and discarded by the vendor. This would also include any empty innerducts.
 11. The District can provide ceiling tiles for any data closets that would need to be recut by the vendor to accommodate cabling pathways.
 12. Any penetration that is not drywall material will need a sleeve and pull string (for future runs) installed per applicable codes.
 13. Service loops of approximately 10-15' should be installed above the ceiling at each endpoint location as well as at each MDF/IDF rack location.
 14. For any endpoint locations and/or conduit pathways that are vacated, add a pull string from wall location to above ceiling/starting point to ending point and cover with a correctly sized faceplate/metal cover.
 15. All data, voice, access control, etc. cables shall be within raceway, J-hooks or other designated cable delivery system. Successful bidder must provide all hardware to run and secure Ethernet, fiber, etc. as specified by applicable codes and ordinances.
 16. Cable trunks should be secured above HVAC duct where applicable unless otherwise approved by the District. All cable should be neatly run within the cable trunk until branching off to an endpoint.
- E. Clarity Rear-Load High Density Jack Panel Kits
1. 48 Port Panel: 48-port, panel jack panel kit, flat, unloaded, 1 RU, Part: OR-PHDHJU48. All slots must be populated.
 2. Rear-load jacks part OR-HDJ6-00 Black (Cat 6) and part OR-HDJ6A-36 (Cat 6a). Blue.
 3. **All rows in each panel must be filled with the same type of panel jack. No mixing of Cat 6 and 6a jacks in a row. In a 48-port panel there can be a row of 24 Cat 6 and a row of 24 Cat 6a panel jacks. All ports must be terminated from left to right with no skipping of ports on the panel.**

- F. Above ceiling: TracJack Surface Mount Box. Part: OR- 404HDJ2 (Fog White) for locations with two or less cables. For locations with three or four cables, use OR-404HDJ4 (Fog White). For locations with five or six cables, use OR-404HDJ6 (Fog White). TracJacks OR-HDJ6 Fog White (Cat 6) and part OR-HDJ6A-36 Blue (Cat 6a).
- G. Wall installation where applicable:
1. Wall mount box single: Part: OR-403HDJ16 Fog white
 2. Wall mount box dual: Part: OR-403HDJ212 Fog white
 3. Extra deep wall mount single: Part: Wiremold NM2044FW (for HDMI locations)
 4. Extra deep wall mount double: Part Wiremold NM2044-2FW (for HDMI locations)
 5. Wall mount box jack: Part: OR-HDJ6 Fog white
 6. 6-port Faceplate: 403HDJ16 (Fog White) for single gang boxes. NOTE: All vacant slots must be filled with blanks
 7. 4-port Faceplate: 419HDJ4-88 (Fog White) for dual gang boxes with half electrical where applicable.
 8. 12-port Faceplate: 403HDJ212 (Fog White) for dual-gang boxes. NOTE: All vacant slots must be filled with blanks
 9. Blank module, OR-HDJB (Fog White). All vacant slots must be filled with blanks
 10. Wall mount box AV jack where applicable: OR-HDJ5E-68 (Dark Gray)
 11. Wall/Ceiling mount blanks: Blank module, OR-HDJB20. All unpopulated jacks must have a blank installed.
 12. Legrand-Wiremold PN10L10FW (Fog White-8 ft section)
 13. Legrand-Wiremold PN10F86FW (Fog White-Ceiling Connector)
 14. NOTE: All field Ethernet installations must be installed in the upper most top left location available and go from left to right and then down to the next available row, etc.
- H. Equipment Racks:
1. MDF: The distribution frame termination equipment and any electronics to be mounted in two new vendor provided 7' standard free standing 19" EIA/TIA racks with vertical swivel managers. Hubbell Part number CS1976H. Vendor will provide eight (8) Horizontal managements to be installed above and below each patch panel and customer provided switches. (Part # Hubbell HM24C, Cable MGMT Duct Panel 19"W x 3.5" H x 3.5" D w/ Cover, steel Black). Ladder from rack(s) to walls and along walls in data closets are to also be included where shown in data closets (with mounting hardware). Wall Angle Support Kit p/n 11421-X12, 3" Channel Rack to Runway p/n 10595-X12 and 12" Universal Cable Runway p/n 10250-X12) as well as a rack mounted power strip, Tripp-Lite PDU1215. See ladder section for other specific part numbers. Cable tray is also specified in parts of the building. See drawing for locations and sizes. Refer to specification section 260536 – "Cable Trays for Electrical Systems" for additional information and requirements.
- I. Ladder rack to be verified/installed in all existing and/or new racks in all closets. All ladder rack should utilize whatever parts needed for securing to wall and rack.
1. Straight Sections: 6' part # HLS0612B, 10' part # HLS1012B
 2. 90° Turns: Inside Radius 12" part # HLI1290B, Outside Radius 12" part # HLO1290B and Flat Turn Radius 12" part # HLF1290B.
 3. Splice Kits: Butt splice part #: HLBSK, Swivel part # HLSSK, T-junction part # HLTK.
 4. Wall Angle Supports: 6-12" part number HLX0612
 5. Vertical wall bracket (2 clips) part number HLVWBK
 6. Protective end caps, 2-pack, black part number HLECPK2
 7. Wall/Rack mounting kit:Includes (1) HLMPK19, (1) HLX0612,
 8. (1) 40"L x 12"W ladder section, part number HLWRK
 9. J-Bolt Kit 2-pack, galvanized, part number HLJB
 10. Foot kit: 2-pack with splices, black, part number HLRFB
- J. Grounding: For data racks, provide necessary grounding and bonding within telecommunications room to comply with TIA-607 B standards. A grounding bar also needs to be installed near the floor close to the rack with Hubbell part number HBBB14210A. The grounding bar will be used at the main distribution point and not as an auxiliary point. Coordinate with the owner for location. Ladder rack, cable trays and free-standing rack(s), etc. must all be grounded as complete pieces. Connections must be clean and contain no spurs or sharp exposed wire. District will provide building ground to bus bar. None of the racks are currently grounded.
- K. Labeling: All locations (fiber, Ethernet, etc.) are to be labeled in typewritten format or owner approved equivalent. Plastic protective covers that come with cable boxes are required. Hand-written location labels will not be permitted. Verify closet designations with the owner.
1. Field Termination: All location labels are to be installed behind the factory transparent plastic protector clearly indicating the closet, panel and port number. For example, in IDF L, jack locations are to be labeled by closet, panel and then port number. For example, L-2-01 would represent Closet L, Panel 2, Port 01. Multiple ports on a field termination endpoint would be labeled as "L-2-01 L-2-02". Label numbers should be above the termination box ports and endpoint terminations should always start at the top of the endpoint termination box.

- Numbers should be sequential in order where possible. For example, on a two-port box, labels would be at the top. In a three-port example two at the top and one at the bottom. In a four-port box two at the top and two at the bottom and in a six-port box three at the top and three at the bottom. All labeling starts at the top left of the box.
2. Closet Termination: The panels do not require port labels to match the field termination end points. Each panel will only need one identifying label in the upper left-hand corner. Examples include L-1, L-2, etc. Verify with owner for clarification.
- L. Ensure all cabling meets specifications utilizing a contractor provided certified tester following TIA-526-14-B guidelines. Provide OTLS test results for all Fiber Optic cabling delivered in written and magnetic media (USB drive or DVD). This includes testing and providing certification results for any cables that need to be pulled again after the initial testing results have been delivered to the District.
- M. Any item of equipment or material not specifically addressed on the drawings or in this document and required to provide a complete and functional installation shall be provided in a level of quality consistent with other specified items at no additional cost to the owner.
- N. Codes: Unless otherwise documented, the successful bidder must provide all hardware to run and secure all cabling and equipment racks as specified by applicable codes and ordinances. References include but are not limited to the following:
1. BICSI: Telecommunications Distribution Methods Manual (TDMM), latest edition
 2. TIA/EIA-568-C: Commercial Building Telecommunications Wiring Standard
 3. EIA/TIA-569B: Commercial Building Standard for Telecommunications Pathways and spaces
 4. TIA/EIA-606: Administration Standard for the Telecommunications Infrastructure of Commercial Buildings
 5. National Electrical Code Article 770 "Optical Fiber Cables" and Article 800 "Communications Circuits"
 6. Local Electrical Code
 7. National Fire Protection Association (NFPA) 70 National Electrical Code
 8. OSHA 29 CFR 1926/1910 Safety and Health Standards
 9. Underwriters Laboratories, Inc. (UL) Listings and Approvals
 10. Country, state and local health, safety and building
- O. Penetrations of walls, floors and ceilings:
1. The Contractor shall make no penetration of floors, walls or ceiling without the prior consent of the owner.
 2. Where penetrations through acoustical walls or other walls for cableways are needed the Contractor will seal such penetrations in compliance with applicable code requirements.
 3. Where penetrations through fire-rated walls for cableways are needed the Contractor will seal such penetrations as required by code.
- P. General Installation
1. The contractor shall furnish all required installation tools to facilitate cable pulling without damage to fiber jacket.
 2. All routing shall be kept clear of other trades work and supported using the method(s) mentioned in this section.
 3. During pulling operation an adequate number of workers shall be present to allow fiber observation at all points of raceway entry and exit, as well as to feed fiber and operate pulling machinery.
 4. Pull cables in accordance with cable manufacturer's recommendations and ANSI/IEEE C2 standards.
 5. Pull all cabling by hand unless installation conditions require mechanical assistance.
 6. Where mechanical assistance is used, ensure that maximum tensile load for fiber is not exceeded. This may be in the form of continuous monitoring of pulling tension, use of "break-away" or other approved method.
 7. Any fiber shall be installed splice-free.
 8. Avoid abrasion and other damage to cabling during installation.
 9. If pulling lubricant is used it shall be non-injurious to cabling jacket and other materials used and not harden or become adhesive with age.
 10. Minimum bend radii, as specified by the manufacturer, must be adhered to for pulling and final installation.
 11. Any cabling bent or kinked to radius less than recommended dimension are not allowed and shall be replaced at no expense to owner.
 12. Repair damage to interior spaces caused by installation of cable, raceway or other hardware.
 13. Repairs must match preexisting color and finish of walls, floors and ceilings.
- Q. Documentation: An Excel spreadsheet will be prepared by vendor and submitted to the District in electronic format with at least the following information. Obtain official spreadsheet from customer.
1. Building name
 2. Data closet number/identifier
 3. Panel number
 4. Port number

- 5. Terminated in wall, floor or ceiling
- 6. Room/Location Description

- R. Door Controls Red Icon: Door control element wire, Windy City Wire part number 4461030 (or equivalent but must have a yellow jacket), to be ran from designated doors to the designated MDF/IDF. At each door location, there will be a 10-foot service loop starting at the top of the door frame. At the designated MDF/IDF, cable must be able to touch the ground plus four feet. All terminations will be completed by District staff or contractor.
- S. Specialized Drops: If the map indicates something like HVAC, Door Controls, etc. next to the data drop symbol, the cable must be terminated inside of the enclosure. Note that the enclosure might not be installed at the time the cable is run. The cables will still be terminated in a biscuit and labeled accordingly. Coordinate with Network Administrator or Technology Director.
- T. Specialized Systems: Additional cable will need to be pulled for intercom and intrusion detection systems. Cabling for intercom locations will be 2-conductor 18-gauge unshielded plenum rated cable (yellow in color). Intrusion detection will be 18 gauge 4-conductor unshielded plenum rated cable (gray in color). All locations and routes will be identified on the maps and handed out at the walk through. Verify where cable needs to be landed and labeled for each specialized system. For example, intercom cabling is usually routed to the bottom of the equipment rack and labeled in the data closets.
- U. AV Requirements:
 - 1. At conference room locations, data will be installed at a specified location for District provided flat panel TV. There will be a single gang box down low and connected to the upper data box behind the TV. Vendor must connect an HDMI cable from upper location to lower location with HDJHDMI couplers. Blanks to be installed for any unused slots.

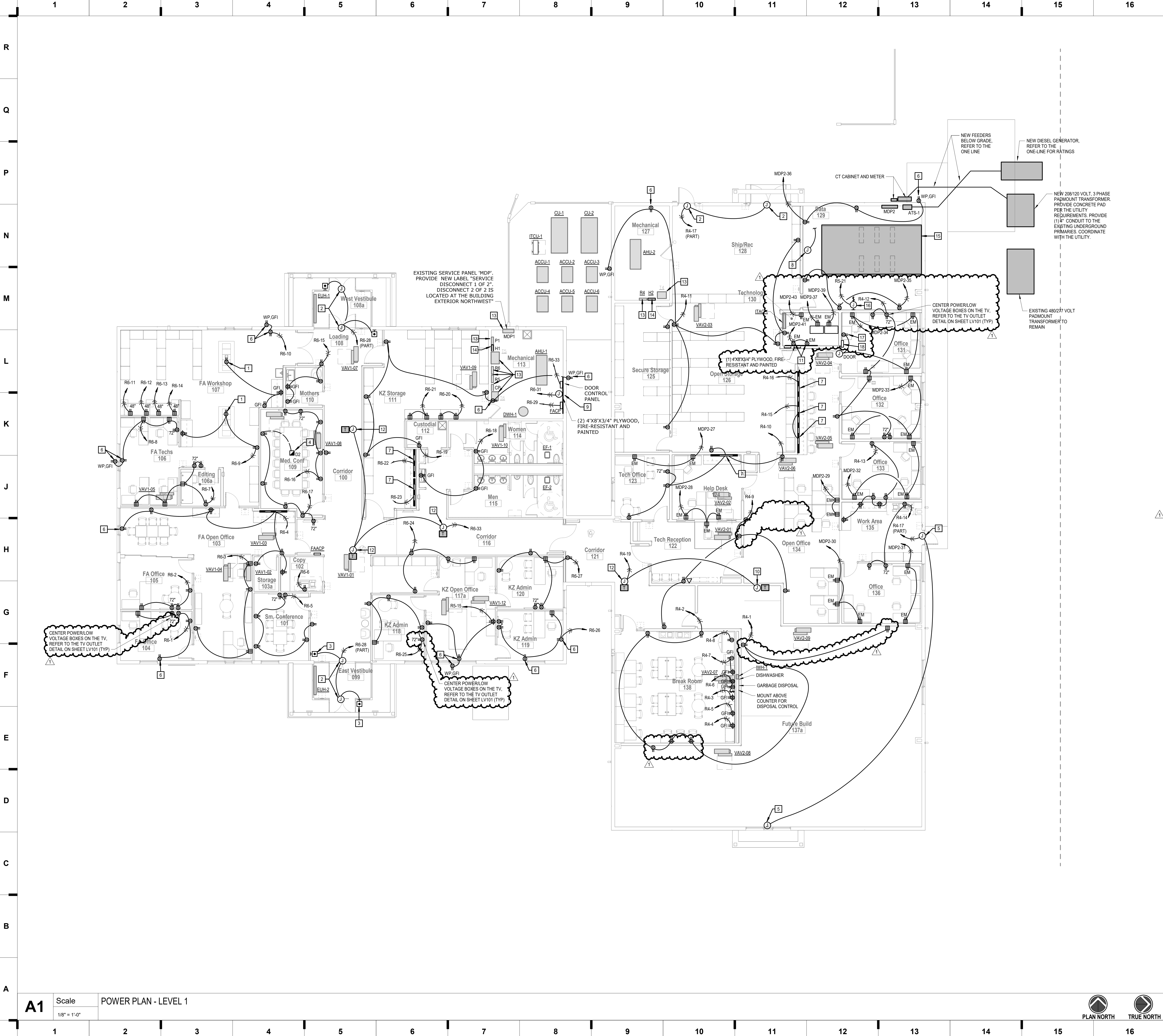
1.2 VENDOR QUALIFICATIONS

- A. The contractor must employ and utilize a BICSI RCDD in good standing at all times during the entire installation of this system.
- B. The contractor must have a minimum of five (5) years' experience on similar cabling systems.
- C. Vendor must agree to e-rate guidelines, have a valid SPIN number AND have a SPAC form on file that is not outdated.
- D. The Vendor must also have the necessary certifications to provide the nCompass Warranty offered between Legrand Ortronics and Superior Essex. The network cabling infrastructure must be installed by Supplier approved designers and Certified Contractors at the Certified Installer Plus-Enterprise Solutions Partner (CIP-ESP) tier or Certified Installer Plus (CIP) tier in accordance with manufacturer's installation instructions and specifications. Copies of certifications must be attached to the Vendor's response for evaluation by The Customer.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 270000



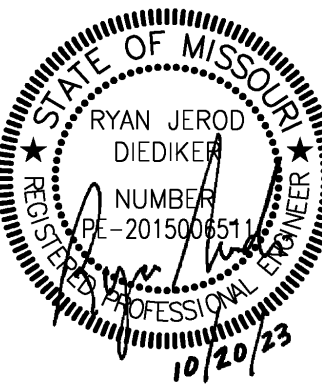
SHEET KEYNOTE LEGEND

- GENERAL NOTES:
- REFER THE EQUIPMENT SCHEDULES ON THE 'ME' SHEETS FOR CIRCUITING REQUIREMENTS TO MECHANICAL EQUIPMENT.
 - REFER TO THE FIRE ALARM PLAN FOR 120 VOLT CIRCUITING TO DOOR HOLDERS.
- PLAN NOTES:
- PROVIDE CORD REEL MOUNTED AT THE CEILING. FURNISH WITH (2) 20 AMP DUPLEX RECEPTACLES AND 25' #12/3 CORD, HUBBELL #HBL125123R220M1 OR SIMILAR.
 - CONNECT TO THE DOOR CONTROLLER/DOOR OPERATOR.
 - PROVIDE ROUGH IN AT 48" AFF FOR DOOR OPERATOR. EXTEND (1) 1/2" CONDUIT WITH PULL STRING TO EACH DOOR OPERATOR CONTROLLER.
 - PROVIDE WIREMOLD #RFB4-C1 OR EQUAL CAST IRON, 4-GANG, MULTISERVICE FLOOR BOX SUITABLE FOR ON-GRADE INSTALLATION. FURNISH WITH GRAY COVER SUITABLE FOR FLOORING INSTALLED. 2 DUPLEX RECEPTACLES AND 2 DATA OUTLETS. EXTEND (1) 1" EMPTY CONDUIT WITH PULL STRING FROM BOX, BELOW FLOOR, AND UP THE WALL TO ABOVE THE CEILING FOR COMMUNICATIONS CABLING.
 - CONNECTION FOR FUTURE DOOR OPERATOR CONTROLLER. PROVIDE JUNCTION BOX ABOVE CEILING OR A MINIMUM OF 10" AFF.
 - REMOVE THE EXISTING DEVICE AT THIS LOCATION, PROVIDE NEW DEVICE AND PLATE. RE-CIRCUIT AS SHOWN.
 - PLUGMOLD MOUNTED 6" ABOVE COUNTER. PROVIDE WIREMOLD 2000 SERIES OR SIMILAR STEEL MULTIOUTLET SYSTEM WITH RECEPTACLES 12" ON CENTER, SINGLE CIRCUIT, WHITE FINISH. FURNISH IN THE LENGTH SHOWN.
 - PROVIDE GROUND CONNECTION TO THE ESD STATIC CONTROL FLOORING SYSTEM. EXTEND (1) #10 COPPER GROUND FROM THE GROUND BUS AT PANEL MDP2 TO THE COPPER STRIPPING AT THE FLOORING. COORDINATE CONNECTION LOCATION AND CONNECTION REQUIREMENTS WITH THE FLOORING MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 - PROVIDE POWER TO DDC SYSTEM, COORDINATE LOCATION WITH THE HVAC CONTRACTOR.
 - PROVIDE POWER CONNECTION TO THE FIRE/SMOKE DAMPER. DAMPER TO BE CONTROLLED BY THE SMOKE DETECTOR.
 - PROVIDE CONNECTION TO THE DOOR CONTROL PANEL AND SECURITY PANEL. COORDINATE EXACT HEIGHT, LOCATION AND CONNECTION REQUIREMENTS WITH SECURITY CONTRACTOR.
 - PROVIDE POWER FOR FIRE/SMOKE DAMPERS AT THE CORRIDOR RATED WALL PENETRATIONS. EXTEND CIRCUIT TO EACH DAMPER, REFER TO SHEET M101 FOR DAMPER LOCATIONS AND QUANTITIES. COORDINATE VOLTAGE WITH THE HVAC CONTRACTOR, PROVIDE TRANSFORMER AS REQUIRED. DAMPERS TO BE CONTROLLED BY THE CORRIDOR CEILING MOUNTED SMOKE DETECTORS.
 - EXISTING PANELBOARD/TRANSFORMER TO REMAIN.
 - REMOVE THE EXISTING PANELBOARD AT THIS LOCATION AND THE ASSOCIATED PANEL FEEDER. PROVIDE NEW PANEL AS SHOWN.
 - PROVIDE CONNECTION TO THE DATA CENTER POD POWER DISTRIBUTION UNIT (PDU). REFER TO THE ONE LINE FOR FEEDER SIZE. FIELD VERIFY THE EXACT PDU LOCATION WITH THE POD.
 - PROVIDE POWER TO THE DATA CENTER DRY CHEMICAL FIRE SUPPRESSION SYSTEM CONTROL PANEL/PUMP. COORDINATE CONNECTION REQUIREMENTS AND LOCATION WITH SYSTEM INSTALLER.
 - PROVIDE DUPLEX RECEPTACLE FOR DOOR CONTROL PANEL, COORDINATE EXACT LOCATION WITH OWNER.
 - GENERATOR ANNUNCIATOR PANEL, MOUNT BELOW DOOR CONTROL PANEL.

District Technology Remodel

Liberty School District
1000 Kent Street
Liberty, Clay County, MO 64068

REVISIONS:		
#	Description	Date
1	ADDENDUM 1	10/20/23



JOB NO: 23022
DRAWN BY: S&B
CHECKED BY: RJD
DATE: 08.31.2023

smith & boucher
engineers
25618 west 103rd St. olathe, ks 66061
phone 913.345.2127 fax 913.345.0617
project number:2314706

E201



SHEET KEYNOTE LEGEND

PLAN NOTES:

- 1 PROVIDE 2"x4" BOX AT 48" AFF FOR FUTURE CARD READER. PROVIDE COMMUNICATIONS CABLING NOTED.
- 2 HELP DESK AND I.T. INTERCOM CALL STATION.
- 3 KID ZONE AND FINE ARTS INTERCOM CALL STATION.
- 4 CONNECT TO THE STAND ALONE DOOR CONTROLLER AT THE OFFICE 131 TEST BENCH, COORDINATE REQUIREMENTS WITH OWNER.
- 5 MOUNT DEVICE ON MULLION, ROUTE CABLING CONCEALED THROUGH MULLION.
- 6 EXTEND (1) 22 AWG 4 CONDUCTOR BARE CONDUCTOR, SHIELDED, PLENUM RATED CABLE, SMARTWIRE #0043430 OR SIMILAR, BETWEEN THE DOOR LOCK PANELS. COORDINATE EXACT PANEL LOCATIONS AND CONNECTION REQUIREMENTS WITH THE OWNER.

NETWORK CABLING NOTES:

DX' AT EACH DEVICE INDICATES THE NUMBER AND LOCATION OF COMMUNICATIONS CABLES AS FOLLOWS. EXTEND ALL CABLING TO TECHNOLOGY 130 AND TERMINATE AT THE PATCH PANELS.

- D1 = 1x CAT6
D2 = 2x CAT6
D3 = 3x CAT6
D4 = 4x CAT6
D2/2 = 2x CAT6 + 2x CAT6A
D1A = 1x CAT6 ABOVE CEILING
D2A = 2x CAT6 ABOVE CEILING
D3A = 3x CAT6 ABOVE CEILING
D4A = 4x CAT6 ABOVE CEILING
D2/2A = 2x CAT6 + 2x CAT6A ABOVE CEILING
D1A = 1x ACCESS CONTROL WIRE. CONNECT TO THE DOOR CONTROLLER AND CARD READER. COORDINATE REQUIREMENTS WITH THE OWNER.

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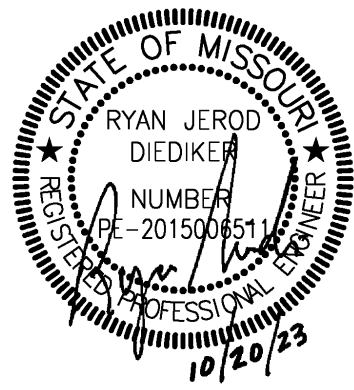
Holle + Miller Architects
Missouri State Certificate of Authority
Architecture # 00001081
Structure # 200601333

MKEC Engineering, Inc.
Civil Engineer
State Certificate of Authority #:
Engineering: 2001009364
Landscaping: 2006027139
Surveying: 2006027139
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District Technology Remodel
Liberty School District
1000 Kent Street
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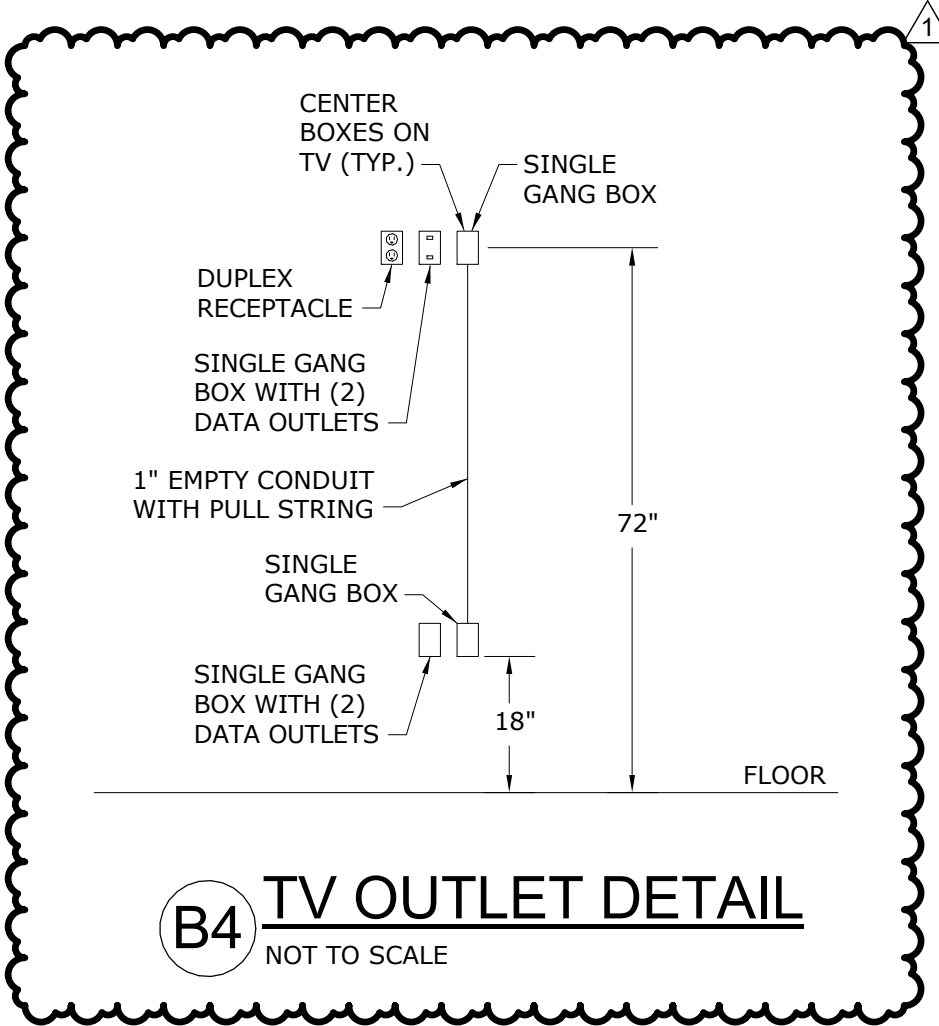
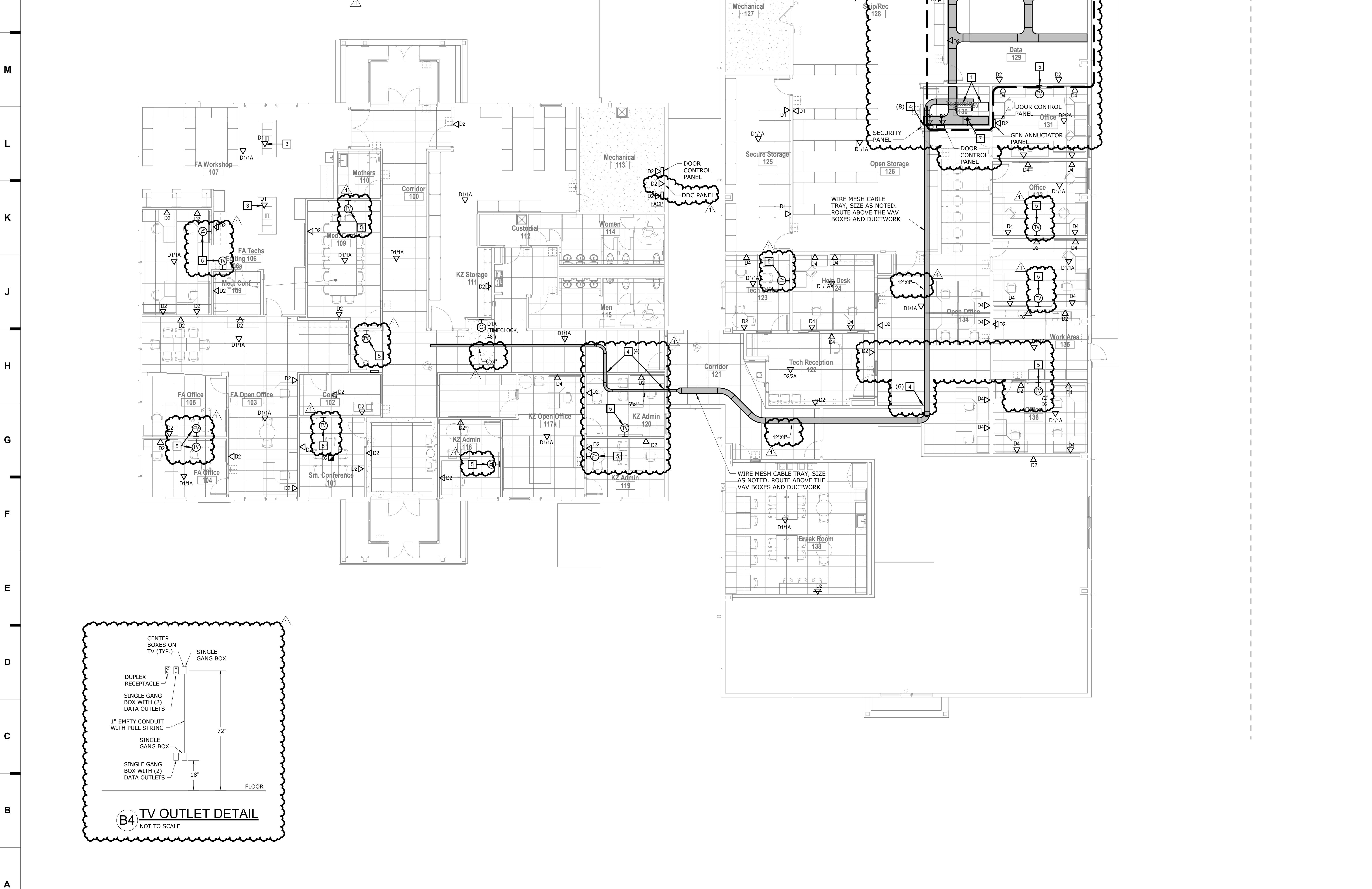
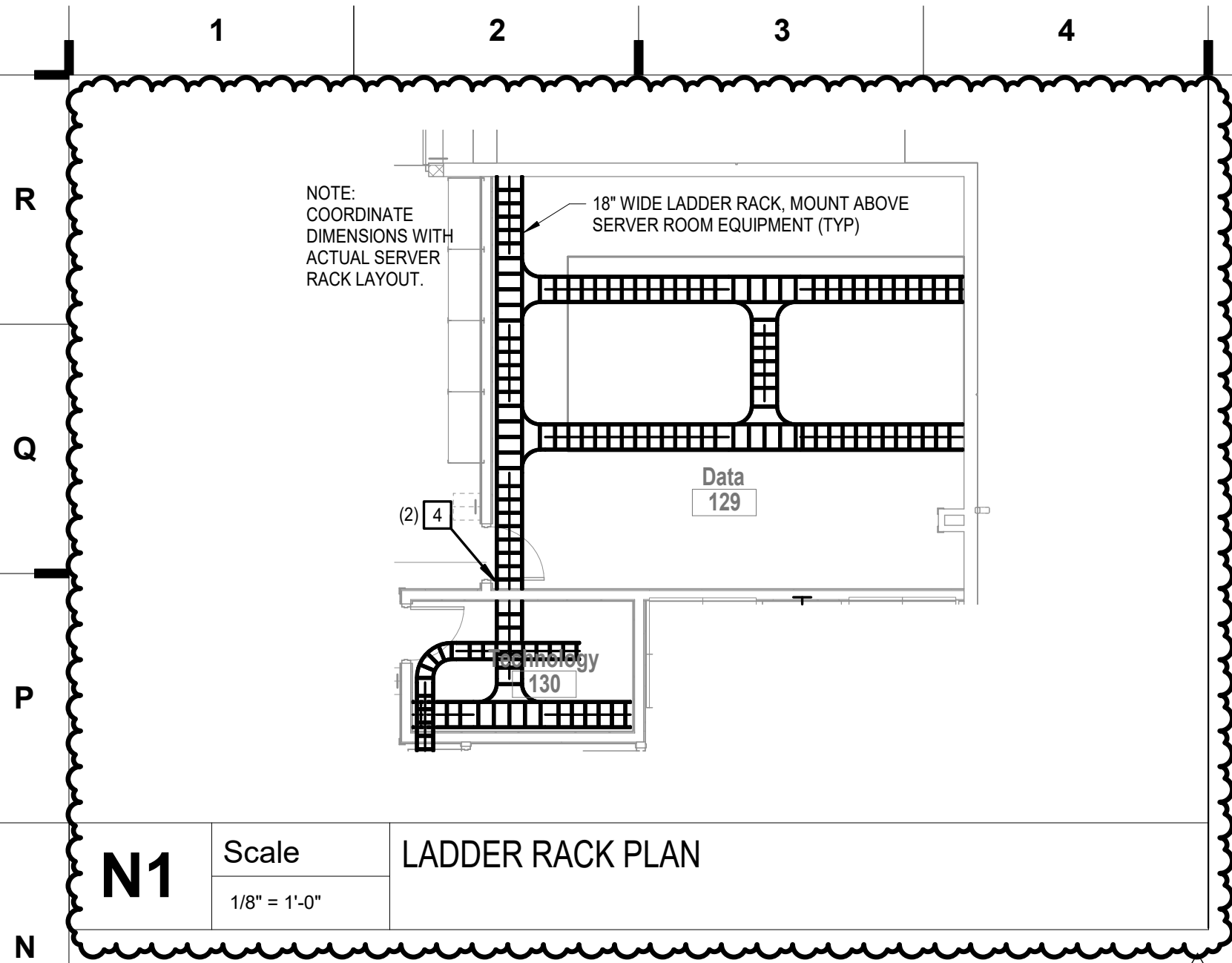
REVISIONS:		
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1	ADDENDUM 1	10/20/23



JOB NO: 23022
DRAWN BY: S&B
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DATE: 08.31.2023

smith & boucher
engineers
25618 west 103rd St. olathe, ks 66061
phone 913.345.2127 fax 913.345.0617
project number:2314706

ES101



A1 Scale TELECOMMUNICATIONS PLAN - LEVEL 1

1/8" = 1'-0"

SHEET KEYNOTE LEGEND

GENERAL NOTES:

- REFER TO THE SECURITY PLAN FOR ADDITIONAL NETWORK CABLING REQUIREMENTS FOR SECURITY DEVICES.
- REFER TO DETAIL SHEET LV301 FOR ADDITIONAL REQUIREMENTS.
- REFER TO THE SPECIFICATIONS SECTION 270000 FOR COMMUNICATIONS SYSTEMS SCOPE OF WORK AND DETAILS. THAT SPECIFICATION WILL GOVERN FOR ANY DISCREPANCIES BETWEEN OTHER SPECIFICATIONS SECTIONS. THE MFR REFERENCED IN THAT DOCUMENT IS IN DATA 129, THE IDF IS IN TECHNOLOGY 130.

PLAN NOTES:

- FLOOR MOUNTED 3-POST RACK. SIZE TO ACCOMMODATE THE DEVICES SHOWN PLUS 25%.
- REFER TO THE POWER PLAN FOR NETWORK CABLING REQUIREMENTS TO THE FLOOR BOX IN THIS ROOM.
- PROVIDE CAT6 CORD REEL MOUNTED AT THE CEILING, HURPLE L, FACA, CAT6 OR SIMILAR.
- PROVIDE EZ PATH SERIES 22 FIRESTOP DEVICE AT RATED WALL PENETRATION, REFER TO THE FIRE STOP DETAILS. PROVIDE QUANTITY OF FIRESTOP DEVICES INDICATED IN PARENTHESES.
- REFER TO THE TV OUTLET DETAIL, THIS SHEET FOR LOW VOLTAGE REQUIREMENTS TO THE TV.
- TELECOMMUNICATIONS MAIN GROUNDING BUS BAR, REFER TO THE DETAILS SHEET FOR REQUIREMENTS.
- TELECOMMUNICATIONS GROUNDING BUS BAR, REFER TO THE DETAILS SHEET FOR REQUIREMENTS.

NETWORK CABLING NOTES:

'DX' AT EACH DEVICE INDICATES THE NUMBER AND LOCATION OF COMMUNICATIONS CABLES AS FOLLOWS. EXTEND ALL CABLING TO TECHNOLOGY 130 AND TERMINATE AT THE PATCH PANELS.

D1 = 1x CAT6
D2 = 2x CAT6
D3 = 3x CAT6
D4 = 4x CAT6
D2/2 = 2x CAT6 + 2x CAT6A
D1A = 1x CAT6 ABOVE CEILING
D2A = 2x CAT6 ABOVE CEILING
D3A = 3x CAT6 ABOVE CEILING
D4A = 4x CAT6 ABOVE CEILING
D2/2A = 2x CAT6 + 2x CAT6A ABOVE CEILING
D1/1A = 1x CAT6 + 1x CAT6A ABOVE CEILING

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Hollis + Miller Architects
Missouri State Certificate of Authority
Architecture # 00007051
Structure # 2006071333

MKEC Engineering, Inc.
Civil Engineer
State Certificate of Authority #:
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Landscaping: 2006027139
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District Technology Remodel
Liberty School District
1000 Kent Street
Liberty, Clay County, MO 64068

REVISIONS:		
#	Description	Date
1	ADDENDUM 1	10/20/23

Professional Engineer Seal for Ryan Jerod Diedker, State of Missouri, License Number 00150451, dated 10/20/23.

JOB NO: 23022
DRAWN BY: S&B
CHECKED BY: RJD
DATE: 08.31.2023

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