

# ADDENDUM ONE

Project: Sullivan County Indian Springs Elementary School HVAC Replacement

Address: 333 Hill Road, Kingsport, Tennessee.

April 5, 2023

This Addendum is part of the Contract Documents for the above referenced project and modifies the original drawings and/or specifications, dated **3/20/23**, as noted below. The bidder shall acknowledge receipt of this Addendum in the place provided in the Bid Form. The published bid date and time shall remain the same.

### **GENERAL:**

- 1. Please see attached Pre-Bid Attendance Record.
- 2. Clarification: Buy America When purchased by federal entities for public use, the Act requires that these goods be produced in the U.S. To be considered as being produced in the U.S., goods must be manufactured in the U.S. and at least 50% of the cost of their components must come from the U.S.

### **DRAWINGS:**

- 1. Lintel Schedule. See attached Lintel Schedule for use with any new or enlarged wall openings.
- 2. **Drawing G-00** See revised drawing to include additional electrical plans.
- 3. **Drawing A-11** See drawing for chain link fence and gates to surround exterior HVAC units.
- **4. Drawing E-01** See revised drawing.
- 5. Drawing E-11A See additional drawing.
- **6. Drawing E-11B** See additional drawing.
- 7. Drawing E-52 See revised drawing.

### SPECIFICATIONS:

- Section 000101 Table of Contents Revised to include Section 323113 Chain Link Fencing and Gates.
- 2. Section 000115 Index of Drawings See revised index to include drawings E-11A and E-11B.
- 3. Section 004113 Bid Form See attached revised bid form to include the Owner's Contingency within the Base Bid, the project completion deadline and the inclusion of an allowance for electrical service renovations.
- **4. Section 012100 Allowances –** See revised specification to include an allowance for electrical service renovations.

Page 1 of 2 4/5/2023

- 5. Section 230900 HVAC Controls Part 2 item 2.01 Acceptable Manufacturers: Include Trane as an acceptable manufacturer for HVAC Controls. All controls systems are required to be compatible with the current District wide Building Automation System.
- **6. Section 231000 HVAC** The following manufacturers are acceptable provided the equipment meet the performance specification, listed manufacturers are not an indication of basis of design and are only listed for reference. All equipment must meet the performance requirements:
  - a. RTU's JCI, AAON
  - b. Unit Ventilators Magic Aire
  - c. Fan Coils JCI, IEC
  - d. Seismic Vibration Isolation Vibro-Acoustics
  - a. **Section 231000 HVAC** Item 2.02 C and D Clarification the supply air ductwork from the ERV units to not have insulation if they are within the insulated building envelope. Item 2.02-D states that these duct types must have insulation if they are inside the building but above the insulated envelope (attic spaces). Item 2.02-G is a separate insulation spec for all ductwork located outside the building (on the roof, along the exterior wall, etc...).
- 7. Section 323113 Chain Link Fencing and Gates Specification section added.

**END OF ADDENDUM 1** 

OFFICE OF THE SULLIVAN COUNTY PURCHASING AGENT 3411 HIGHWAY 126–SUITE 201 BLOUNTVILLE, TN 37617-0569

> KRISTINIA DAVIS PURCHASING AGENT

PHONE 423-323-6400 FAX 423-323-7249 kris.davis@sullivancountym.gov

# PRE-BID ATTENDANCE RECORD

DATE: 03.29.2023

TIME 2:00 21

PROJECT DESCRIPTION: Inclian Springs Elementary School HVAC Replacement LOCATION OF PROJECT: Indian Brinds Clementary Chop

VERIFIED BY REGISTRATION, TO AFFORD AN OPPORTUNITY FOR COMPANY TO OFFER A PRICED PROPOSAL. NOTE: MANDATORY PRE-BID MEETING REQUIRES REPRESENTATION OF COMPANY AGENT,

ingrasing Dept. Michelle Kance

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EMAIL ADDRESS	brent & fourseasonscorp, con totern & hoge-ine. con CHARIES. HUBBARD & Sulliva KIZ. NET	dnekinney (sbuhitero.com	MILTER RRCINC. CER	MULL G GREING. COM
PHONE NUMBER	865-219-7730 423-361-9510 423-354-1151	423-926-8127	423-363-5430	330-704-3859 865-399-3418
COMPANY / AGENCY	Four Seasons, Inc HUAC.Inc SCDE	S.B. WHITE CO, INC	ORU	cru
YOUR NAME	Brent Haccell Todd Green CHANKS HUBBBAD	DAVID NEGLINEY	MILTON LIETZKE	DICHARD WIZ Steven Zimny

OFFICE OF THE SULLIVAN COUNTY PURCHASING AGENT 3411 EIGHWAY 126—SUITE 201 BLOUNTVILLE, TN 37617-0569

KRISTINIA DAVIS PURCHASING AGENT

PHONE 423-323-6400 FAX 423-323-7249 kris.davis@sullivancountytn.gov

# PRE-BID ATTENDANCE RECORD

TIME: 2:00	os Elemetany	Go Cleventary
DATE: 03.29.2023	PROJECT DESCRIPTION: Inclassify of Project Description of Project Description of the Project Descripti	LOCATION OF PROJECT: Inclien SPINGS Clementary

\*NOTE: MANDATORY PRE-BID MEETING RÉQUIRÉS REPRESENTATION OF COMPANY AGENT, VERIFIED BY RECISTRATION, TO AFFORD AN OPPORTUNITY FOR COMPANY TO OFFER A PRICED PROPOSAL.

COMPANY / AGENCY
HVAC

### LINTEL SCHEDULE FOR WALL OPENINGS

This Schedule shall apply for all Masonry Wall Lintels as shown and noted on the Drawings and shall also apply where Masonry Wall Lintels are not shown and noted on the drawings.

MASONRY OPENING	MINIMUM BEARING LENGTH	LINTEL: WHERE PLATES (%") ARE SCHEDULED THEIR WIDTHS SHALL BE THE TOTAL WALL WIDTH (-) 1".				
0" thru 4'-0" Mk. L-1	811	Exterior Wall: Pre-cast Masonry Lintel or continuation of Typ. Bond Beam w/ L5x5x5/6 for Brick Interior Wall: "U-Block" Bond Beam				
4'-1" thru 6'-4" Mk. L-2	gn	W8x10 w/ Plate				
6'-5" thru 8'-4" Mk. L-3	10"	W8x18 w/ Plate				
8'-5" thru 10'-4" Mk. L-4	12"	W8x24w/ Plate				
10'-5" thru 12'-4" Mk. L-5	12"	W8x31 w/ Plate				

Block cores at bearing ends of lintels shall be filled full height of wall to brng. w/ 4,000 psi grout. Grout length = brng. plus 8". At all Masonry and Lintels bearing on Masonry provide 4,000 psi grout full ht. w/ 1 - #5 Vert. each of 2 cores min., and dowel to Footing Typ. each Bearing End, except as noted.

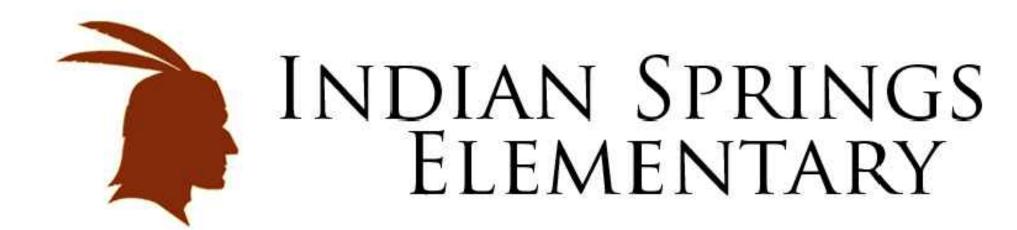
### MASONRY LINTEL SCHEDULE FOR WALL OPENINGS Where masonry wall lintels are not shown and noted on the drawings, this Schedule shall also apply. **MINIMUM** MASONRY BEARING LINTEL DESCRIPTION **OPENING** LENGTH Exterior wall: Pre-cast Masonry Lintel plus $L5x5x\frac{5}{6}$ for Brick 011 thru 41-011 Interior wall: Pre-cast Masonry Lintel or "U-Block" Bond Beam or Mk. M-1 Pre-cast Masonry Lintel w/ 2 - #6 T.F. & B.F. 8" (or 12") x 16" High Pre-cast 4'-1" thru 6'-4" Masonry Lintel or 2 course gII Mk. M-2 "U-Block" Bond Beam w/ 2 - #6 T.F., 2 - #6 B.F. 8" (or 12") x 16" High Pre-cast 6'-5" thru 8'-4" Masonry Lintel or Ž course 1011 Mk. M-3 "U-Block" Bond Beam w/ 3 - #6 T.F., 3 - #7 B.F. 8" (or 12") x 24" High Pre-cast 8'-5" thru 10'-4" Masonry Lintel or 3 course 12" "U-Block" Bond Beam Mk. M-4 w/ 3 - #6 T.F., 3 - #7 B.F. 8" (or 12") $\times$ 24" High Pre-cast 10'-5" thru 12'-4" Masonry Lintel or 3 course 1211 "U-Block" Bond Beam Mk. M-5 |w/ 3 - #7 T.F., 3 - #8 B.F. 8" (or 12") x 24" High Pre-cast Masonry Lintel or 3 course 12'-5" thru 14'-4" 1211 "U-Block" Bond Beam Mk. M-6 |w/ 3 - #7 T.F., 3 - #8 B.F.

Block cores at bearing ends of lintels shall be filled full height of wall to brng. w/4,000 psi grout. Grout length = brng. plus  $8^{II}$ . At all Masonry and Lintels bearing on Masonry provide 4,000 psi grout full ht. w/1 - #5 Vert. each of 2 cores min., and dowel to Footing Typ. each Bearing End, except as noted.

**HVAC REPLACEMENT for** 

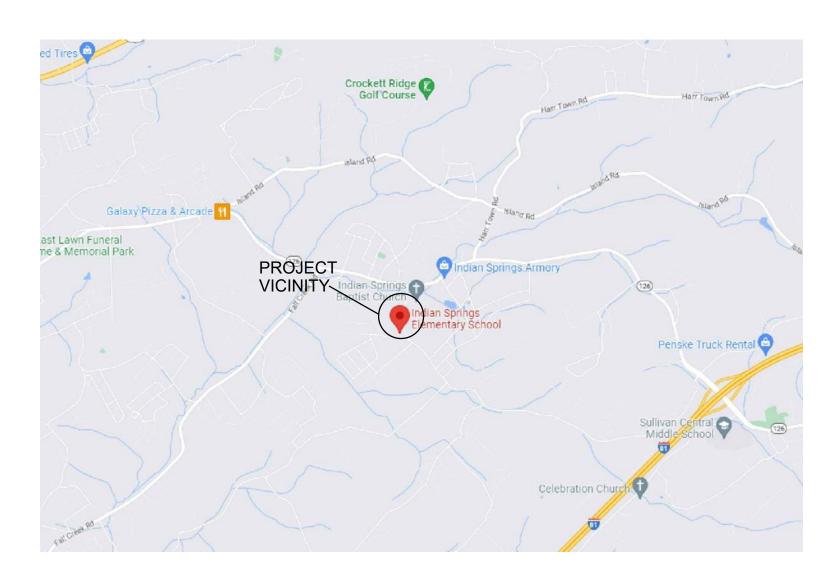
# SULLIVAN COUNTY SCHOOLS INDIAN SPRINGS ELEMENTARY

Kingsport, Tennessee



MARCH 10, 2023 CRW Project # 202288 PLANS REVIEW SUBMISSION

# VICINITY MAP



# **LOCATION MAP**



## **DRAWING INDEX**

GENERAL G-00 COVER SHEET

G-01 GENERAL INFORMATION SHEET

SITE / CIVIL NONE

ARCHITECTURAL
A-10 FLOOR PLAN AREA "A" A-11 FLOOR PLAN AREA "B"

I-10 REFLECTED CEILING PLAN AREA "A"
I-11 REFLECTED CEILING PLAN AREA "B"

MECHANICAL SCHEDULES MAIN FLOOR HVAC

FIRE PROTECTION

E-01 ELECTRICAL LEGEND AND SCHEDULES E-11 LIGHTING PLAN

ARCHITECT / CIVIL

Cain

West

E-31 COMMUNICATIONS PLAN E-31

E-50 PANELBOARD SCHEDULES

Cain Rash West

130 Regional Park Dr Kingsport, TN 37660 Phn (423) 349-7760 Fax (423) 349-7413 www.grcinc.com

Architects AND SHALL BE RETURNED PER THEIR REQUES

o. date rev. description 04/06/2023 ADDENDUM #1

# MECHANICAL / PLUMBING

**Architectural** 

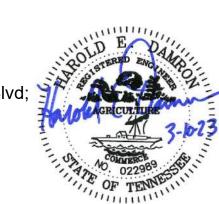
Services

130 Regional Park Dr.

Kingsport, TN 37660 Phn (423) 349-7760 Fax (423) 349-7413 www.grcinc.com



5641 Merchants Center Blv STE A104 Knoxville, TN 37912 www.bce1946.com



# ELECTRICAL



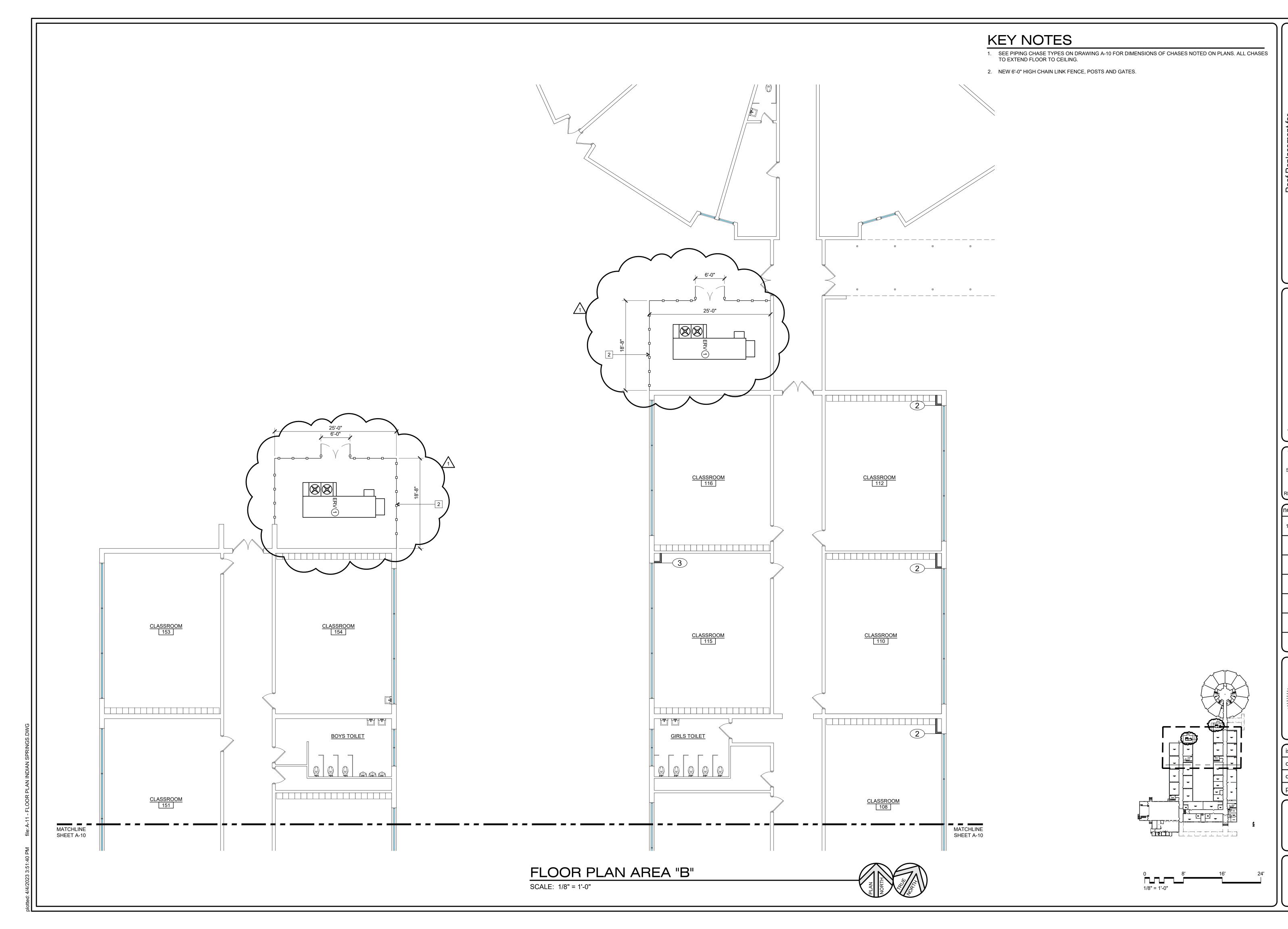
3107 SUTHERLAND AVENUE P.O. BOX 10648 KNOXVILLE, TENNESSEE 37939-0648 PHONE 865/637-4451 FAX 865/637-1558



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	issued	3/10/23
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	drawn	RDL
	project no.	202288

**COVER SHEET** 

G-00



Indian Springs Elementary



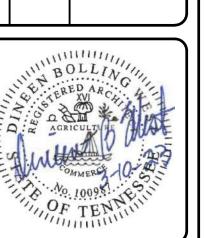


0 Regional Park Dr.

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drawn	RDL
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REFLECTED CEILING PLAN

A-11

2. FOR ALL OTHER FEEDER AND BRANCH CIRCUIT WIRING SHOWN ON

C405.9.

DRAWINGS, WIRE SIZING HAS BEEN SPECIFIED TO MEET VOLTAGE

DROP REQUIREMENTS AS SET FORTH IN NFPA 70 (NEC) AND IECC

NO. 10

NO. 8

125'

195'

215'

340'

FACTOR. USE LARGER SIZES IF SPECIFICALLY NOTED ON PLANS.

TABLE IS BASED ON 3% VOLTAGE DROP ON 12.0 F.L.A., 0.85 POWER

425'

665'

225'

435'

\_

3107 Sutherland Ave.

P.O. Box 10648

Knoxville, TN 37939

865-637-4451

1-800-362-9789

vreelandengineers.com

issued

checked

drawn

project no.

E-01

FIRST FLOOR

PLAN -

**ELECTRICAL** 

Architects

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4-3-23

ELECTRICAL

SERVICE

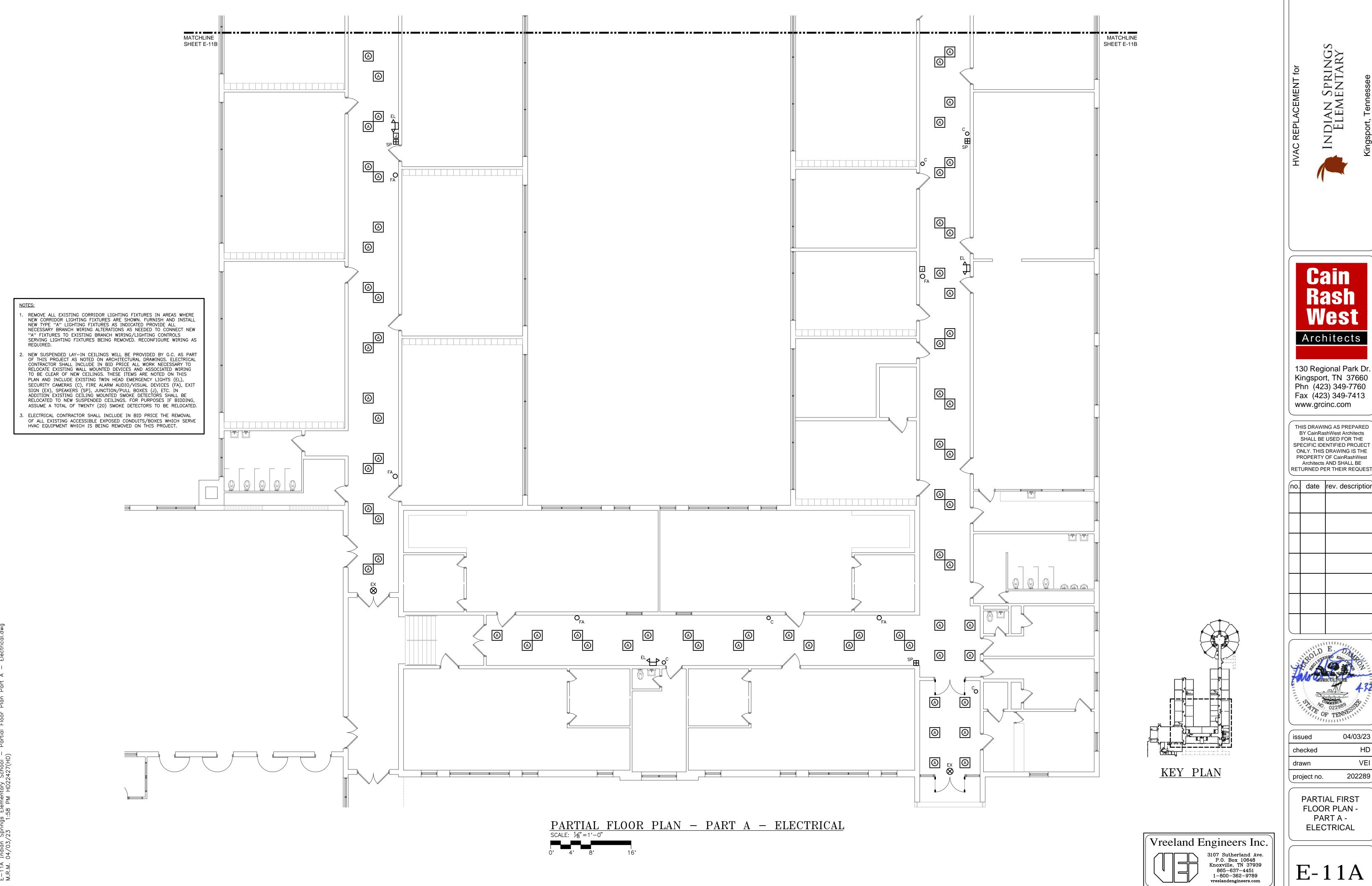
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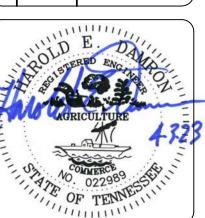




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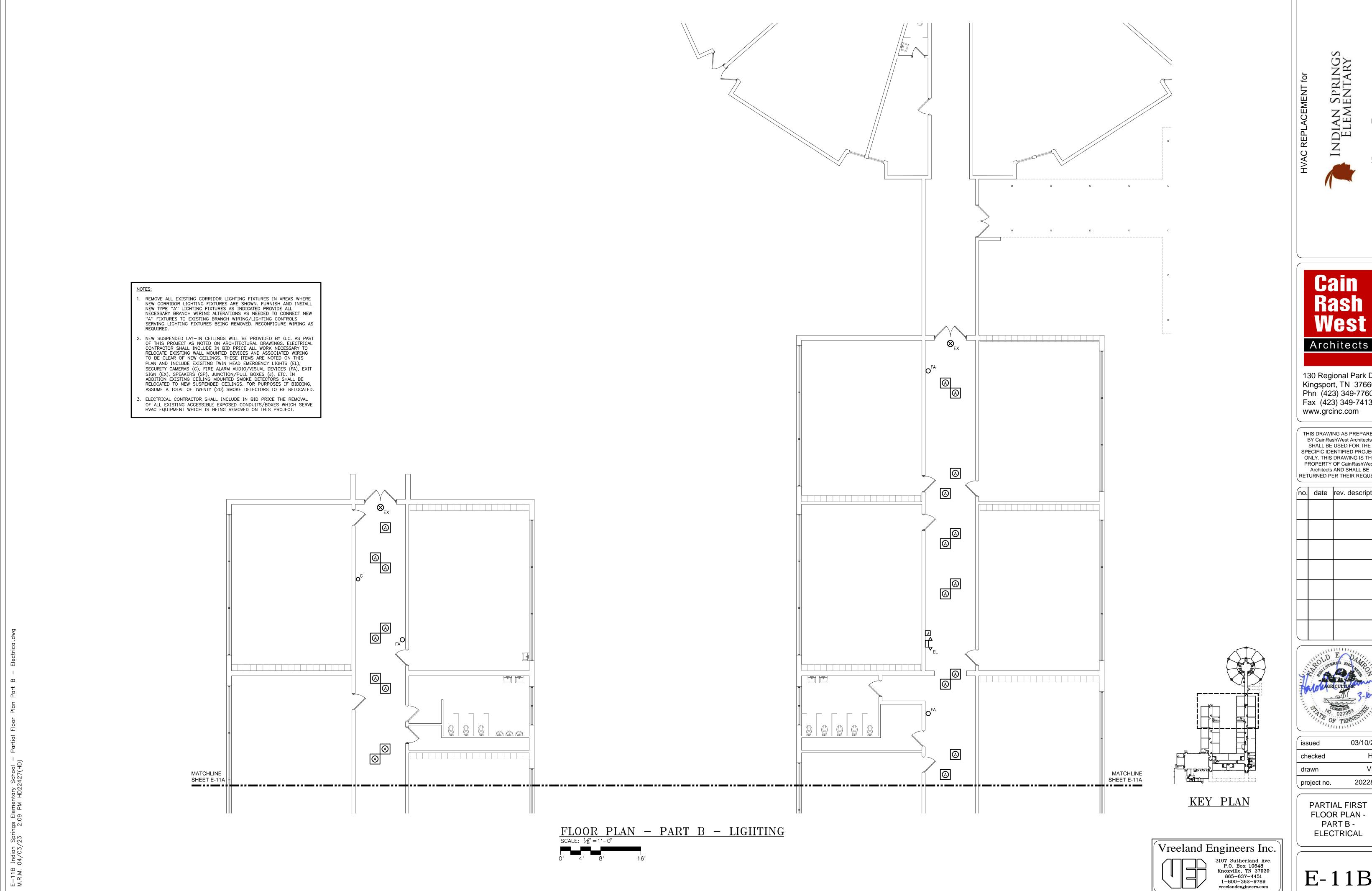


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PARTIAL FIRST FLOOR PLAN -PART A -

ELECTRICAL

E-11A

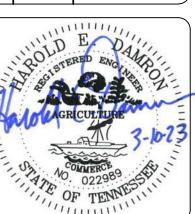




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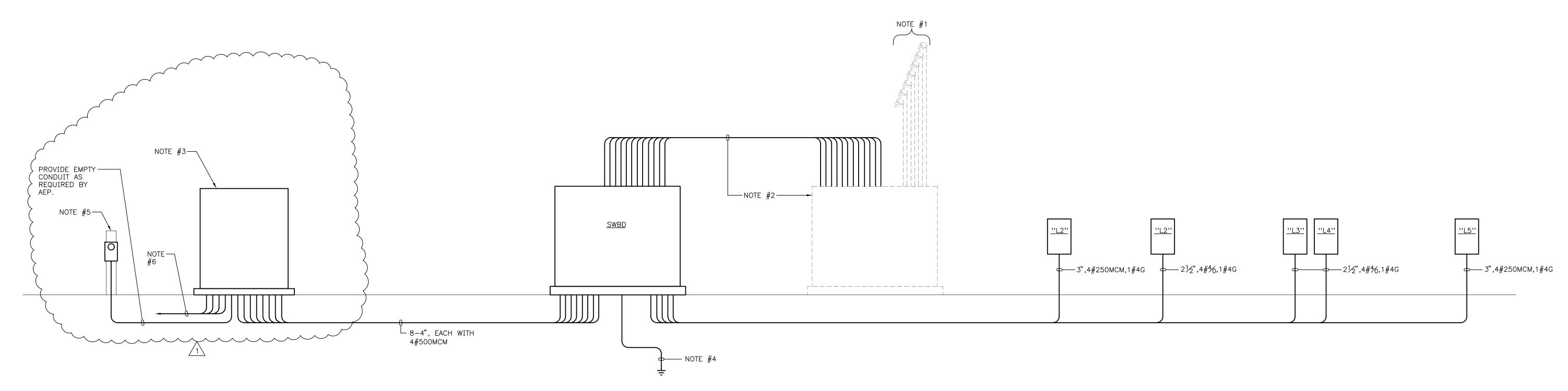
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E-11B



# FEEDER DIAGRAM

						LI	GH.	<u> FIXTURE</u>	SCH	EDULE			
ILLUMINATION MOUNTING					N	MOUNT	ING						
					CEI	_ING	WALL						
DESIGNATION	Σ	DELIVERED LUMENS	OR TEMPERATURE (*K)	MINIMUM CRI	PENDANT STEM LENGTH	SURFACE	GHT ABOVE FINISHED OR OR GRADE	DESCRIPTION: SHIELDING, TYPE MATERIALS, FINISH, MOUNTING		ACTURER'S UCT ITEM	* EQUAL PRODUCT PERMITTED		REMARKS
DES	WAT	WATTS DELIVEF COLOR STEM L SURFAC RECESS FLOOR FLOOR		COMPANY	CATALOG NO.	YES	NO						
Α	37.4	2000	3000	80				2'x2' FLAT PANEL, FIELD	ORACLE	22-FPL-BL-	•		
	-	3000	3500					SELECTABLE LUMEN OUTPUT AND COLOR TEMPERATURE, 0-10 VOLT	LIGHTING	LED-2000/3000/ 4000L-DIM10-			
		4000	4000					DIMMING DRIVER		MVOLT-30K/35K/ 40K-85			

FEEDER DIAGRAM NOTES:

ARRANGE WITH UTILITY COMPANY FOR REMOVAL OF OVERHEAD SERVICE TO SWITCHBOARD BEING REMOVED. CONTRACTOR TO REMOVE EXISTING SERVICE MAST AND PATCH EXISTING OPENINGS AS REQUIRED.

EXISTING 2500A SWITCHBOARD TO BE CONVERTED TO A JUNCTION BOX BY CONTRACTOR. RE-FEED ALL ACTIVE LOADS SERVED BY SWITCHBOARD BEING REMOVED FROM NEW "SWBD". CONDUIT QUANTITY SHOWN ON THIS FEEDER DIAGRAM IS DIAGRAMMATIC ONLY. REFER TO PANEL SCHEDULES ON E-51 FOR LIST OF KNOWN EXISTING LOADS TO BE RE-FED FROM "SWBD".

3. NEW AEP PADMOUNTED TRANSFORMER, 120/208-VOLT, 3-PHASE, 4-WIRE, WYE SECONDARY. PROVIDE CONCRETE PAD PER AEP REQUIREMENTS.

\_\_\_\_\_ 4. PROVIDE SERVICE GROUNDING PER NEC REQUIREMENTS, SEE PROJECT MANUAL FOR ADDITIONAL INFORMATION.

5. ARRANGE WITH UTILITY COMPANY TO PROVIDE PEDESTAL MOUNTED METER NEAR NEW PADMOUNTED TRANSFORMER. CONFIRM EXACT LOCATION OF PEDESTAL MOUNTED METER WITH AEP, ARCHITECT, AND OWNER'S MAINTENANCE STAFF.

PROVIDE EMPTY CONDUITS TO NEW AEP PADMOUNTED TRANSFORMER FROM NEW AEP RISER POLE, SEE DRAWING E-01 FOR ADDITIONAL INFORMATION.

AEP AID TO CONSTRUCTION CHARGES:

\$10,000.

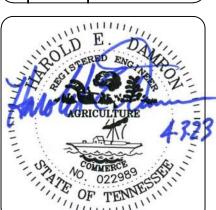
CONTRACTOR SHALL INCLUDE IN BID PRICE PAYMENT OF AEP "AID TO CONSTRUCTION" CHARGES FOR NEW UNDERGROUND SERVICE TO BUILDING. FOR PURPOSES OF BIDDING, CONTRACTOR SHALL ASSUME THAT AEP "AID TO CONSTRUCTION" CHARGES SHALL BE

Cain Architects

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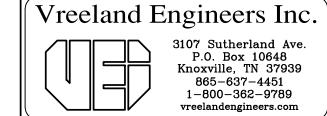
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project no.	202289

FEEDER DIAGRAM



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### **DIVISION 01**

- SECTION 002111 BID ADVERTISEMENT
- SECTION 002112 PROSPECTIVE BID LETTER
- SECTION 002113 BID ENVELOPE COVER
- SECTION 002214 INSTRUCTIONS TO BIDDERS
- SECTION 002215 INSURANCE REQUIREMENTS FOR CONSTRUCTION PROJECTS UP TO \$1 MILLION
- SECTION 002216 BUY AMERICA CERTIFICATION
- SECTION 002217 CERTIFICATION REGARDING DEBARMENT & SUSPENSION
- SECTION 002218 CERTIFICATION REGARDING LOBBYING
- SECTION 002219 SULLIVAN COUNTY COMPLIANCE AFFADAVIT
- SECTION 002220 FEDERAL REGULATIONS FOR FEDERALLY FUNDED CONSTRUCTION PROJECTS
- SECTION 004113 BID FORM
- SECTION 006000 FORMS AND REQUIREMENTS
- SECTION 006001 A101-2017 STANDARD FORM OF AGREEMENT BETWEEN OWNER AND CONTRACTOR
- SECTION 006002 A201-2017 SUPPLEMENTARY GENERAL CONDITIONS
- SECTION 006003 A310-2010 BID BOND
- SECTION 006004 DAVIS BACON WAGE RATE TN105 and WAGE/HOURS FORM
- SECTION 006325 REOUEST FOR APPROVAL FORM
- SECTION 011000 SUMMARY
- SECTION 012100 ALLOWANCES
- SECTION 012300 ALTERNATES
- SECTION 012500 SUBSTITUTION PROCEDURES
- SECTION 012600 CONTRACT MODIFICATION PROCEDURES
- SECTION 012900 PAYMENT PROCEDURES
- SECTION 013100 PROJECT MANAGEMENT AND COORDINATION
- SECTION 013200 CONSTRUCTION PROGRESS DOCUMENTATION
- SECTION 013233 PHOTOGRAPHIC DOCUMENTATION
- SECTION 013300 SUBMITTAL PROCEDURES
- SECTION 014000 QUALITY REQUIREMENTS
- SECTION 014200 REFERENCES
- SECTION 014339 MOCKUPS
- SECTION 015000 TEMPORARY FACILITIES AND CONTROLS
- SECTION 016000 PRODUCT REQUIREMENTS
- SECTION 017300 EXECUTION
- SECTION 017419 CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL
- SECTION 017700 CLOSEOUT PROCEDURES
- SECTION 017823 OPERATION AND MAINTENANCE DATA
- SECTION 017839 PROJECT RECORD DOCUMENTS

### **DIVISION 02 - EXISTING CONDITIONS**

• SECTION 024119 – SELECTIVE DEMOLITION

### **DIVISION 03- CONCRETE**

NOT USED

### **DIVISION 04- MASONRY**

NOT USED

•

### **DIVISION 05- METALS**

NOT USED

### DIVISION 06- WOOD, PLASTICS, AND COMPOSITES

NOT USED

### **DIVISION 07- THERMAL AND MOISTURE PROTECTION**

• SECTION 079200 – JOINT SEALANTS

### **DIVISION 08- OPENINGS**

NOT USED

### **DIVISION 09- FINISHES**

- SECTION 092216 NON-STRUCTURAL METAL FRAMING
- SECTION 092900 GYPSUM BOARD
- SECTION 095123 ACOUSTICAL TILE CEILINGS
- SECTION 096513 RESILIENT BASE AND ACCESSORIES
- SECTION 099123 INTERIOR PAINTING

### **DIVISION 10 - SPECIALTIES**

NOT USED

### **DIVISION 21 - FIRE PROTECTION**

NOT USED

### **DIVISION 22 - PLUMBING**

NOT USED

### DIVISION 23 - HEATING, VENTILATING AND AIR CONDITIONING (HVAC)

- SECTION 230500 BASIC HVAC SYSTEM MATERIALS AND METHODS
- SECTION 230900 HVAC CONTROLS
- SECTION 231000 HVAC

### **DIVISION 26 - ELECTRICAL**

- SECTION 260100 GENERAL ELECTRICAL
- SECTION 260200 SUPPORTING DEVICES
- SECTION 260300 EQUIPMENT IDENTIFICATION
- SECTION 260400 POWER SERVICE
- SECTION 260401 GROUNDING
- SECTION 260519 CONDUCTORS
- SECTION 260533 CONDUIT

### Indian Springs Elementary School

### **HVAC** Replacement

### Kingsport, TN

- SECTION 260534 BOXES
- SECTION 260535 WIRING DEVICES
- SECTION 260574 EXCAVATION AND BACKFILLING
- SECTION 262411 SWITCHBOARD (208-VOLTS)
- SECTION 262416 PANELBOARDS
- SECTION 262816 SAFETY SWITCHES
- SECTION 262911 MANUAL MOTOR STARTERS
- SECTION 264313 SURGE PROTECTIVE DEVICES
- SECTION 265119 LED INTERIOR LIGHTING
- SECTION 265300 EXIT SIGNS
- SECTION 280000 GENERAL ELECTRONIC SAFETY & SECURITY
- SECTION 283100 FIRE ALARM SYSTEM EXPANSION

### **DIVISION 31 - EARTHWORK**

NOT USED

### **DIVISION 32 – EXTERIOR IMPROVEMENTS**

• SECTION 323113 – CHAIN LINK FENCING AND GATES

SECTION 000115 – INDEX OF DRAWINGS

### **PROJECT INFORMATION**

G-00 COVER SHEET

G-01 GENERAL INFORMATION SHEET

### <u>SURVEY</u>

Not Used

### SITE/CIVIL

Not Used

### *LANDSCAPE*

Not Used

### **STRUCTURAL**

Not Used

### <u>ARCHITECTURAL</u>

A-10 PARTIAL FLOOR PLAN A-11 PARTIAL FLOOR PLAN)

### **INTERIORS**

I-10 PARTIAL REFLECTED CEILING PLAN
I-11 PARTIAL REFLECTED CEILING PLAN

### **MECHANICAL**

M-01 HVAC SCHEDULES

MD-11 HVAC DEMOLITION PLAN

M-11 HVAC PLAN

### **PLUMBING**

Not Used

### **ELECTRICAL**

E-01 OVERALL FLOOR PLAN – ELECTRICAL

E-11A PARTIAL ELECTRICAL FLOOR PLAN AREA A
E11B PARTIAL ELECTRICAL FLOOR PLAN AREA B

E-50 LEGEND, SCHEDULES, AND DETAILS

E-51 PANEL SCHEDULES E-52 FEEDER DIAGRAM

END OF INDEX OF DRAWINGS

## BID FORM 004113

TO:	OWNER: ADDRESS:	Sullivan County Tennessee 3411 Highway 126 Blountville, TN 37617
BID TRANSMITTE	D IN CARE OF:	Michelle Ramey, Assistant Purchasing Agent Sullivan County Courthouse 3411 Highway 126 Blountville, TN 37617
FROM: BIDDER:		
ADDRESS:		
CITY/STATE/ZIP:_		
TELEPHONE:		
TN. LICENSE NO:_		
LICENSE EXPIRAT	TON DATE:	
THE ABOVE STAT	ED BIDDER IS:	
	_ AN INDIVIDUA	L
	_ A CORPORATIO	DN
	_ A PARTNERSHI	P
	_ A JOINT VENTU	JRE CONSISTING OF:

AND IS LICENSED TO DO BUSINESS IN THE STATE OF TENNESSEE,

FOR THE WORK SPECIFIED.

### **GENTLEMEN:**

- 1. Having examined the plans and specifications, having visited the site of the proposed work, and being completely familiar with the local conditions affecting the cost of the work, and having carefully examined the construction bidding documents with addenda prepared by Cain Rash West Architects and entitled "SULLIVAN COUNTY INDIAN SPRINGS ELEMENTARY SCHOOL HVAC REPLACEMENT"
- 2. I, (We) propose to execute the portion of the work identified as "Sullivan County Indian Springs Elementary School HVAC Replacement" for the stipulated sum of: (sums shall be in written and numerical form)

Lump Sum Base Bid	DOLLARS
(\$	).
Proposed Project Duration	() Days gency of 5% which shall be listed as a line item on
the Schedule of Values. Liquidated Damag	es shall be \$200 per day after September 30, 2024 is aware of material availability issues – if all been made and documented and are not

- 3. Allowance No. One (1): Lump-Sum Power Company Aid to Construction Allowance:
  - a. Base bid will include Aid to Construction charges from AEP for modifications to the building electrical power service.

Allowance #1 Unit Cost Ten Thousand DOLLARS

(\$10,000.00)

- 4. The undersigned agrees to complete all of the work described by the "Contract Documents" and have the space fully ready for occupancy, including any Alternates.
- 4. The undersigned agrees to commence work under this contract within three working days of receipt of Notice to Proceed.
- 5. The undersigned agrees that this bid shall be good and may not be withdrawn for a period of (30) thirty calendar days after the scheduled closing time for receiving bids.

# Indian Springs Elementary School HVAC Replacement

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6. The undersigned, upon receipt of written notice of the acceptance of this bid, agrees to deliver, to the owner or his agent, the architect, the required performance bond, labor and material payment bond and certificate of insurance in accordance with the specifications and instructions to bidders.

The undersig	gned hereby acknowledges receipt of:	
	ADDENDUM NO.	DATE
This proposa	al is respectfully submitted	
	By:	
	Title:	
	Firm name:	
	Business address:	
	(Seal if this bid is submitted by a Corpor	ration)

This Bid Form consists of three (3) pages. END OF BID FORM 004113

### SECTION 012100 - ALLOWANCES

### PART 1 - GENERAL

### 1.1 SUMMARY

- A. Section includes administrative and procedural requirements governing allowances.
- B. Types of allowances include the following:
  - 1. Contingency allowances.

### 1.2 ACTION SUBMITTALS

A. Submit proposals for purchase of products or systems included in allowances in the form specified for Change Orders.

### 1.3 INFORMATIONAL SUBMITTALS

- A. Submit invoices or delivery slips to show actual quantities of materials delivered to the site for use in fulfillment of each allowance.
- B. Submit time sheets and other documentation to show labor time and cost for installation of allowance items that include installation as part of the allowance.

### 1.4 QUANTITY ALLOWANCES

- A. Allowance shall include cost to Contractor of specific products and materials ordered by Owner or selected by Architect under allowance and shall include **taxes**, freight, and delivery to Project site.
- B. Unless otherwise indicated, Contractor's costs for receiving and handling at Project site, labor, installation, overhead and profit, and similar costs related to products and materials ordered by Owner or selected by Architect under allowance shall be included as part of the Contract Sum and not part of the allowance.

### 1.5 ADJUSTMENT OF ALLOWANCES

- A. Allowance Adjustment: To adjust allowance amounts, prepare a Change Order proposal based on the difference between purchase amount and the allowance, multiplied by final measurement of work-in-place where applicable. If applicable, include reasonable allowances for cutting losses, tolerances, mixing wastes, normal product imperfections, and similar margins.
  - 1. Include installation costs in purchase amount only where indicated as part of the allowance.

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- 2. If requested, prepare explanation and documentation to substantiate distribution of overhead costs and other markups.
- 3. Owner reserves the right to establish the quantity of work-in-place by independent quantity survey, measure, or count.
- B. Submit claims for increased costs because of a change in scope or nature of the allowance described in the Contract Documents, whether for the purchase order amount or Contractor's handling, labor, installation, overhead, and profit.
  - 1. Do not include Contractor's or subcontractor's indirect expense in the Change Order cost amount unless it is clearly shown that the nature or extent of Work has changed from what could have been foreseen from information in the Contract Documents.
  - 2. No change to Contractor's indirect expense is permitted for selection of higher- or lower-priced materials or systems of the same scope and nature as originally indicated.

PART 2 - PRODUCTS (Not Used)

### **PART 3 - EXECUTION**

### 3.1 EXAMINATION

A. Examine products covered by an allowance promptly on delivery for damage or defects. Return damaged or defective products to manufacturer for replacement.

### 3.2 PREPARATION

A. Coordinate materials and their installation for each allowance with related materials and installations to ensure that each allowance item is completely integrated and interfaced with related work.

### 3.3 SCHEDULE OF ALLOWANCES

- A. Allowance No. 1: Lump-Sum Electrical Aid to Construction Allowance:
  - 1. Project will include \$10,000.00 Aid to Construction cost from AEP for electrical service modifications.

END OF SECTION 012100

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### SECTION 32 31 13 - CHAIN LINK FENCE AND GATES

### PART 1 GENERAL

### 1.01 WORK INCLUDED

A. Chain link fence and gates as shown on the Drawings and specified herein.

### 1.02 RELATED WORK

- A. Specified elsewhere:
  - 1. Section 01 10 00 Summary

### 1.03 QUALITY ASSURANCE

A. Installer shall have a minimum of two (2) years experience in installing similar fencing, which shall be confirmed in writing and accompanied by a list of installations.

### 1.04 REFERENCES

1.

A116

A. American Society for Testing Materials (ASTM); latest edition:

		Woven Wire Fence Fabric
2.	A53	Standard Specification for Pipe, Steel, Black and Hot-Dipped zinc-Coated (Galvanized) Welded and Seamless, for Ordinary Uses

Standard Specification for Zinc-Coated (Galvanized) Steel

- 3. A123 Standard Specifications for Zinc (Hot Galvanized) Coatings on Iron and Steel Products
- 4. A153 Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware
- 5. C150 Standard Specification for Portland Cement

- 6. ASTM F668 Specification for Polymer Coated Chain Link Fence Fabric
- 7. ASTM F900 Specification for Industrial and Commercial Swing Gates
- 8. ASTM F934 Specification for Standard Colors for Polymer-Coated Chain Link
- 9. ASTM F1083 Specification for Pipe, Steel, Hot-Dipped Zinc-Coated (Galvanized) Welded, for Fence Structures
- 10. ASTM F1184 Specification for industrial and Commercial Horizontal Slide Gates
- 11. ASTM F626 Specification for Fence Fittings
- 12. ASTM 1043 Specification for Strength and Protective Coatings of Steel Industrial Chain Link Fence Framework
- B. Federal Specifications (FS):
  - 1. RR-F-191/GEN 22 Jul 81 Fencing, Wire and Post Metal (and Gates, Chain-Link Fence Fabric and Accessories) (General Specification)

### 1.05 SUBMITTALS

- A. Submit the following in accordance with Section 01 33 00:
  - 1. Manufacturer's Literature: Materials description and installation instructions.
  - 2. Shop Drawings: Show layout of fencing, dimensions, height, footings, sizes members, connections, etc.
  - 3. Samples: 6-inch x 6-inch piece of chainlink fabric.

### 1.06 DELIVERY, STORAGE AND HANDLING

A. Deliver all materials in manufacturer's original packaging with tags and labels intact. Handle and store materials in such a manner as to avoid damage. Damaged or otherwise unsuitable material when so ascertained shall be immediately removed from the job site.

### PART 2 PRODUCTS

### 2.01 MATERIALS

All fencing framework, wire fabric, and components to be black coated PVC.

- A. Round Steel Pipe and Rail: ASTM F1083, Schedule 40.
- B. Polymer Coated Pipe: Polymer coated pipe shall have a PVC coating fused and adhered to the exterior zinc coating of the galvanized pipe in accordance with ASTM F1043. The minimum thickness of the PVC coating shall be 10-mils (0.254 mm). Color to match fabric black per ASTM F934.
- C. The color of all framework shall be black in accordance with ASTM F934.
- D. Polymer Coated Color Fittings: In compliance with ASTM F626, PVC coating minimum thickness 0.006 in. (0.152 mm) fused and adhered to the zinc coated fittings. Match color to fence system, black, per ASTM F934.
- E. Polymer Coated End, Corner and Pull Posts:
  - 1. Fence up to and including 6 feet in height:
    - a. 3.0 inch outside diameter pipe weighing 9.11 pounds per lineal foot,
- F. Polymer Coated Line Posts: (10 feet maximum spacing)
  - 1. Fabric up to 9 feet in height:
    - a. 2.0 inch outside diameter pipe weighing 3.65 pounds per lineal foot.
- G. Polymer Coated Gate Posts:
  - 1. Gate leaves 6 feet wide:

a. 3.0 inches outside diameter pipe weighing 9.11 pounds per lineal foot.

### H. Polymer Coated Top Rail:

- 1. 1.660 inch outside diameter pipe weighing 2.27 pounds per lineal foot. Furnish in manufacturer's standard lengths, of approximately 21 feet with couplings approximately 6 inches long for each joint, one coupling in each 5 to have expansion spring. Provide means for attaching top rail securely to each gate, corner, pull and end posts. Top rail shall form continuous brace from end to end of each run of fence.
- I. Polymer Coated Tension Wire: Shall be provided at top and bottom of fabric except where rails are required.
  - 1. 7-gauge polymer coated coil spring wire.
- J. Polymer Coated Center Rails between Line Posts:
  - 1. 1.660 inch outside diameter pipe weighing 2.27 pounds per lineal foot.
- K. Polymer Coated Post Bracing Assembly: (Shall match top rail)
  - 1. 1.660 inch outside diameter pipe weighing 2.27 pounds per lineal foot. (For horizontal braces) 3/8-inch diameter rod with adjustable take-up (For diagonal truss).
- L. Polymer Coated Chain Link Fabric:
  - 1. The material for chain link fence fabric shall be manufactured from galvanized steel wire. The weight of zinc shall meet the requirements of ASTM F668, Table 4. Galvanized wire shall be PVC-coated to meet the requirements of ASTM F668. The class of the fence fabric shall be Class 2A Extruded and Bonded.
  - 2. Selvage: Top and bottom of fabric shall have twisted and barbed selvage.
  - 3. Color: The coating color for the fence fabric shall be black. Reference ASTM F668 and ASTM F934.

- 4. Wire Size: The size of the steel wire core shall be 8 gauge. The finished size of the coated wire shall be 7 guage.
- 5. Height and Mesh Size: the fabric height shall be 6 feet or 4 feet (as shown on the plans) high with a mesh size 2 inches.
- M. Privacy Slats NOT USED
- N. Polymer Coated Posts Tops:
  - 1. Polymer Coated Pressed steel, or malleable iron, designed as a weathertight closure cap (for tubular posts). Provide one cap for each post unless equal protection is afforded by combination post top cap and barbed wire supporting arm where barbed wire is required. Where top rail is used provide tops to permit passage of top rail.
- O. Polymer Coated Stretcher Bars: (For tubular end, corner, pull or gate posts only)
  - 1. One piece lengths equal to full height of fabric with a minimum cross-section of 3/16 inch x 3/4 inch. Provide one stretcher bar for each gate and end post, and 2 for each corner and pull post.
- P. Polymer Coated Stretcher bar bands:
  - 1. Heavy pressed steel straps, to be spaced not over 15 inch on center to secure stretcher bars to tubular end, corner pull and gate post.
- Q. Polymer Coated Wire Ties:
  - 1. For tying fabric to line posts, use 6-gauge steel wire clips for H-Section posts and minimum 9-gauge aluminum or steel wire ties for tubular posts spaced 14 inch on center. For tying fabric to rails and braces, use 9-gauge aluminum wire ties spaced 24 inch on center. For tying fabric to tension wire, use 11-gauge hog rings spaced 24 inches on center.
- R. Grounding: in accordance with VDOT Standard Detail FE-6 (included herein).
- 2.02 HORIZONTAL SLIDE GATES Not Used

### 2.03 SWING GATES

- A. Polymer Coated Swing Gates: Galvanized steel pipe welded fabrication in compliance with ASTM F900. Gate frame members 1.900 in. OD (48.3 mm) ASTM F 1083 schedule 40 galvanized steel pipe Frame members spaced no greater than 8 ft. (2440 mm) apart vertically and horizontally. Welded joints protected by applying zinc-rich paint in accordance with ASTM Practice A780. Positive locking gate latch, pressed steel galvanized after fabrication. Galvanized malleable iron or heavy gauge pressed steel post and frame hinges. Provide lockable drop bar and gate holdbacks with double gates. Match gate fabric to that of the fence system. Gateposts per ASTM F1083 schedule 40 galvanized steel pipe.
- B. Polymer coated swing gates and posts shall match the coating type and color as that specified for the fence framework. Reference ASTM F668 and ASTM F934.

### 2.04 CONCRETE

- A. Provide concrete consisting of Portland cement complying with ASTM C150, aggregates complying with ASTM C33 and clean water. Mix materials to obtain concrete with a minimum 28-day compressive strength of 3000 psi, using at least 5 sacks of cement per cubic yard, 1-inch maximum size aggregate, 3 maximum slump, and 4 to 6 percent entrained air.
- 2.05 Landowner swing gates shall be V-Series barrier gates by Hoover Fence Company, or approved equal.

### PART 3 EXECUTION

### 3.01 INSTALLATION

A. Installation of fencing shall be in accordance with ASTM F567, and shall not begin prior to completion of final grading. Drill holes for post footings in firm, undisturbed or compacted soil. Hole shall have a diameter of 10 inches for line posts and 12 inches for other posts. Excavate hole depths approximately six (6) inches deeper than post bottom, with bottom of posts set not less than 42 inches below surface when in firm, undisturbed soil. Excavate deeper as required for adequate support in soft and loose soils.

- 1. Metal in contact with concrete shall be coated with bitumastic. Place concrete around posts in a continuous pour, tamp for consolidation. Check each post for vertical and top alignment, and hold in position during placement and finishing operations.
- 2. Trowel finish tops of footings, and slope or dome to direct water away from posts. Extend footings for gate posts to the underside of bottom hinge. Set keepers, stops, sleeves and other accessories into concrete as required. Concrete shall be allowed to cure 14 days or until 3000 psi strength is attained.
- B. Install braces so posts are plumb when diagonal rod is under proper tension.
- C. Install tension wires before stretching fabric and tie to each post with ties or clips.
- D. Leave approximately one (1) inch between finish grade and bottom fabric selvage. Pull fabric taunt and tie to posts, rails, and tension wires. Install fabric on security side of fence, and anchor to framework so that fabric remains in tension after pulling force is released.
- E. Thread stretcher bars through fabric and secure to posts with metal bands spaced not over 15 inches on center.
- F. Install gates plumb, level and secure for full opening without interference. Install ground-set items in concrete for anchorage, as recommended by the fence manufacturer. Adjust hardware for smooth operation and lubricate where necessary.
- G. In securing fabric use U-shaped clip or wire, securely fastened around pipe to which attached, clasping pipe and fabric firmly. Bend ends of wire to minimize hazard to persons or clothing.
- H. Install nuts for tension band and hardware bolts on side of fence opposite fabric side.
- I. Ground fence at each side of each gate, corners, and at points below overhead power lines.

- J. Install stretcher arms and barbed wire so wire is taut, with arms extending out from area to be protected.
- K. Install material carefully. Damaged coatings shall be repaired or coated items replaced.

END OF SECTION