

ADDENDUM NO. 3

DATE OF ISSUANCE:	April 25, 2024
PROJECT:	2024 Addition and Renovations North Harrison Elementary School 1115 W. Whiskey Run Road Ramsey, IN 47166
OWNER:	North Harrison Community Schools
ARCHITECT'S PROJECT NO.:	23-228.001
ORIGINAL BID ISSUE DATE:	April 03, 2024

SCOPE OF WORK

This Addendum includes changes to, or clarifications of, the original Bidding Documents and any previously issued addenda, and shall be included in the Bid. All of these Addendum items form a part of the Contract Documents. The Bidder shall acknowledge receipt of this Addendum in the appropriate space provided on the Bid Form. Failure to do so may result in disqualification of the Bid.

DOCUMENTS INCLUDED IN THIS ADDENDUM

This Addendum includes **[3]** pages of text and the following documents:

- Drawings: **AD-3A, AD-3B, AD-3C, S101, A601, E200A, E400A, E601, UE100, T101**

CHANGES TO SPECIFICATIONS

ADD-3 Item No. S-1 - Electronic Mortise Lockset

Refer to Specification Section: 08 71 00 – Finish Hardware

- Add 2.05, U as follows:
 - U. Electronic Mortise Lockset
 1. All electronic mortise locksets shall be one of the following:
 - a. Schlage, LEB Series, SiMB chassis/function, GRW style, "06" lever design.
 - b. Sargent, IN120, 7900 Series, "L" lever design, "LN" rose.
 2. Lockset shall be capable of Bluetooth and WiFi connectivity.
 3. Lockset shall be battery powered.
 4. Lockset shall be operated using manufacturer's HID mobile credentials installed on user's cell phone.
 5. Lockset shall be configured using manufacturer's cloud-based web and/or mobile applications.

- Hardware Set #10: change “Lockset (Finger Print Reader)” to “Electronic Mortise Lockset”.

ADD-3 Item No. S-2 - Food Service Equipment

Refer to Specification Section: 11 40 00 – Food Service Equipment

- Item #16A Combi Oven, change manufacturer from “Hobart” to “Rational.”
- Revise Item #54 Walk-In Cooler and Freezer as follows:
Provide and install a combination, two-section cooler/freezer unit in accordance with Drawings and Article 2.02 in this Section.

CHANGES TO DRAWINGS

ADD-3 Item No. D-1 - Water Service Vault

Refer to Sheet(s): C501

Add attached Drawing AD-3B which includes a revised detail of the water service vault plan view.

ADD-3 Item No. D-2 - Stair at Reception 103

Refer to Sheet(s): **AD-3A**

Add attached Drawing AD-3A which includes a North-South foundation section through the stair.

ADD-3 Item No. D-3 - Kitchen Equipment Supports

Refer to Sheet(s): **S101**

Replace with attached revised Drawing in its entirety; revisions have been clouded for reference. Steel framing added to support new kitchen exhaust hoods.

ADD-3 Item No. D-4 - Cafeteria Building Section

Refer to Sheet(s): **A601**

Replace with attached revised Drawing in its entirety; revisions have been clouded for reference. Light fixtures and notations have been added.

ADD-3 Item No. D-5 - Stair at Reception 103

Refer to Sheet(s): **A703**

Add attached Drawing AD-3C which includes a North-South architectural section through the stair.

ADD-3 Item No. D-6 - Reception 103 flooring

Refer to Sheet(s): **I101**

Add the following note at Reception 103: Luxury Vinyl Tile in this room to be Color 1 [Field] only; no pattern.

ADD-3 Item No. D-7 - Food Service Equipment Schedule

Refer to Sheet(s): **K102**

Item No. 36B (Booster Heater) – As a clarification, water supplied to booster heater will be 140 degrees.

Item No. 15 (3-compartment sink) – Add General Note: (2) faucets.

ADD-3 Item No. D-8 - Employee Timeclock Power/Data

Refer to Sheet(s): **E400A**

Added a quadruplex and 2-data outlets on south wall of Cafeteria 133 for employee timeclock connections. Circuit quadruplex to "A-38". Route (1) #12 conductor and (1) #12 ground in 3/4" conduit to panel indicated.

ADD-3 Item No. D-9 - Updated Demolition Scope

Refer to Sheet(s): **E200A, E400A**

Duplex along south wall of Cafeteria 133 to be demolished. Updated scope is as shown on attached sheets.

ADD-3 Item No. D-10 - Updated Cafeteria Lighting Specs

Refer to Sheet(s): **E601**

- Updated remarks for both light fixtures "C" and "C1": "Provide aircraft cabling as required to mount each fixture at 24'-0" AFF. Provide mounting hardware from exposed structure above. Provide Unistrut as required. Refer to architectural elevations for stem length and angle requirements."
- Updated fixture type "C" part number to be 60"D instead of 72"D:
 - SPI #AIP11849-L190W-120/277V-4000K-80-DIM1-H10-FB00-MIA-MB02

ADD-3 Item No. D-11 - Fire Vault Connections and View Scales

Refer to Sheet(s): **UE100**

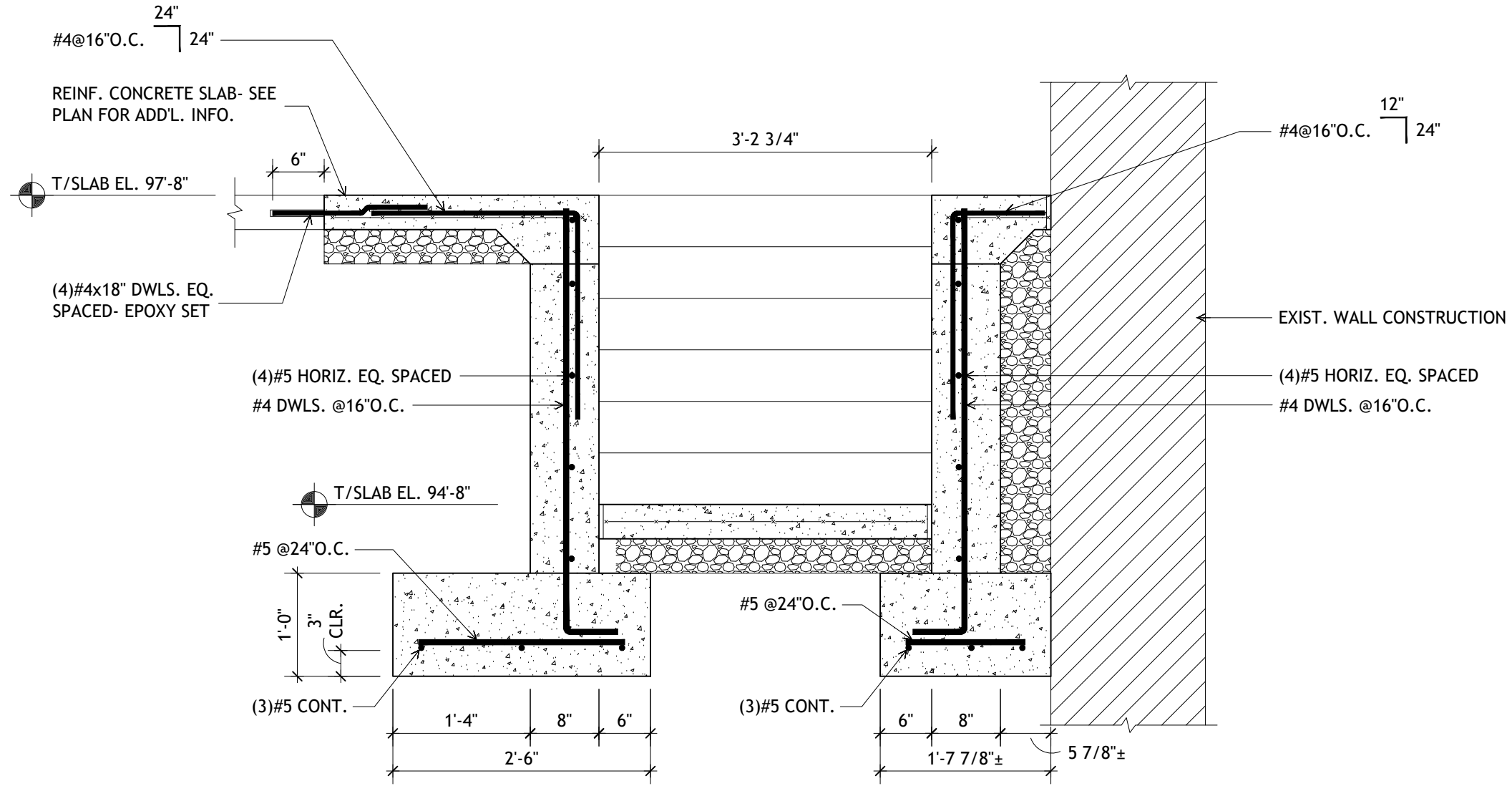
- Updated tagnote #2 to be as follows: "Provide new tamper and flow switches as shown at new fire vault location. Remove and replace existing fire alarm connections to new vault location and connect new fire alarm devices. Field verify exact conditions prior to construction."
- Fixed incorrect scales for site plan views on sheet from 1/16" – 1'-0" scale to 1/8" – 1'-0" scale.

ADD-3 Item No. D-12 - Future Cafeteria Sound System

Refer to Sheet(s): **T101**

Add attached Drawing T101 provided by Owner's separate vendor indicating conduit pathway for Owner's future sound system located in Cafeteria 133 to be installed outside of the scope of this project. Contractor shall include providing and installing all pathway components as indicated within the Base Bid of this project. Conduits to be installed prior to painting within room.

END OF ADDENDUM.



1 SECTION
AD-3A full size plot scale: 3/4"=1'-0"
0 8" 1'-4"

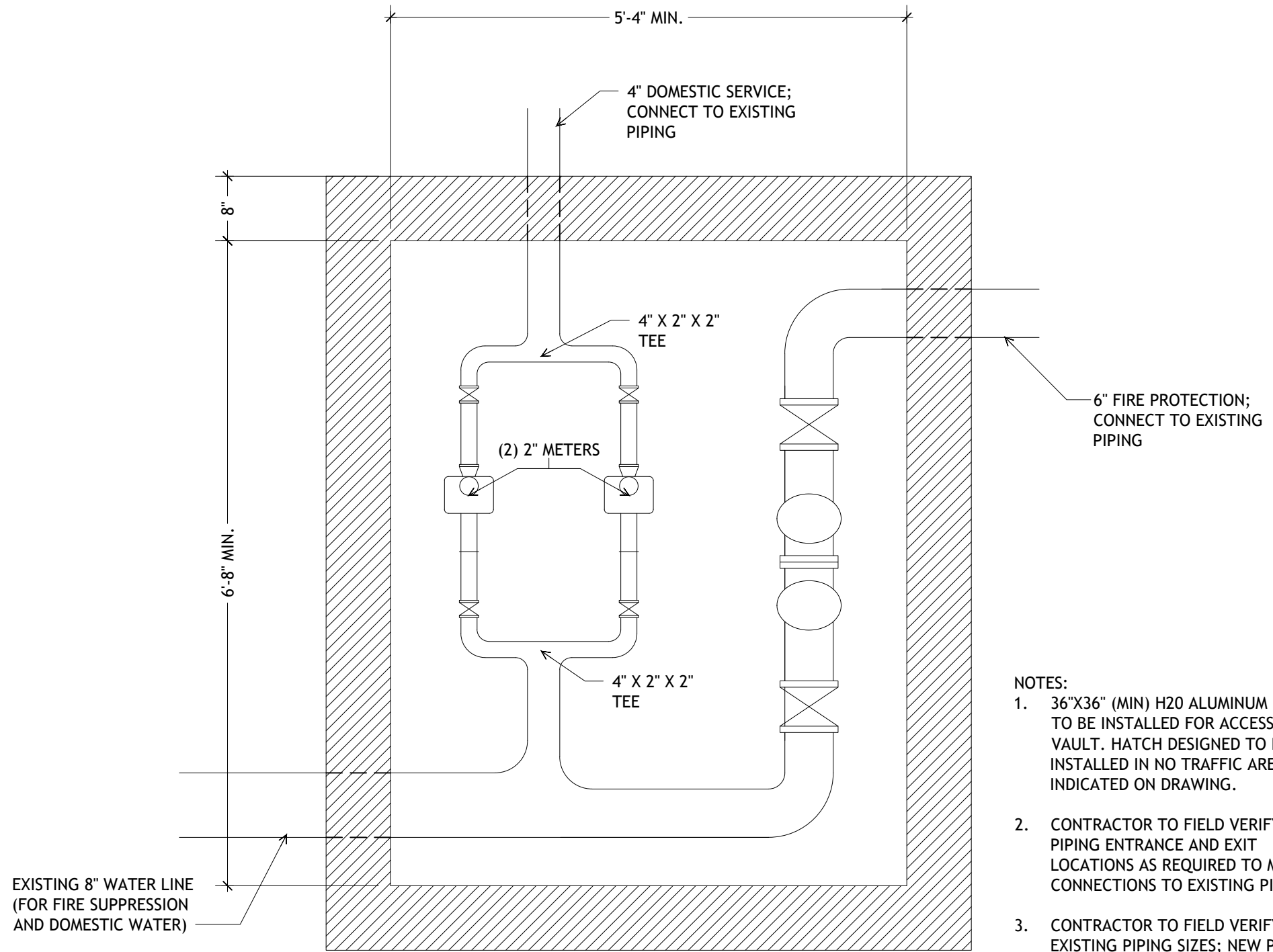
Revisions	Drawn	Checked By	Project No.	Date
1	JK	HG	23-228.001	04/25/2024
2				
3				
4				
5				
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Certified By

Drawn	HG
Checked By	HG
Project No.	23-228.01
Date	04/25/2024

Revisions	1	
	2	
	3	
	4	
	5	
	6	

Certified By



- NOTES:**
1. 36"X36" (MIN) H2O ALUMINUM HATCH TO BE INSTALLED FOR ACCESS TO VAULT. HATCH DESIGNED TO BE INSTALLED IN NO TRAFFIC AREA AS INDICATED ON DRAWING.
 2. CONTRACTOR TO FIELD VERIFY PIPING ENTRANCE AND EXIT LOCATIONS AS REQUIRED TO MAKE CONNECTIONS TO EXISTING PIPING.
 3. CONTRACTOR TO FIELD VERIFY EXISTING PIPING SIZES; NEW PIPING SIZES TO MATCH.
 4. CONTRACTOR TO SUBMIT VAULT & METER DETAIL FOR APPROVAL PRIOR TO INSTALLATION.

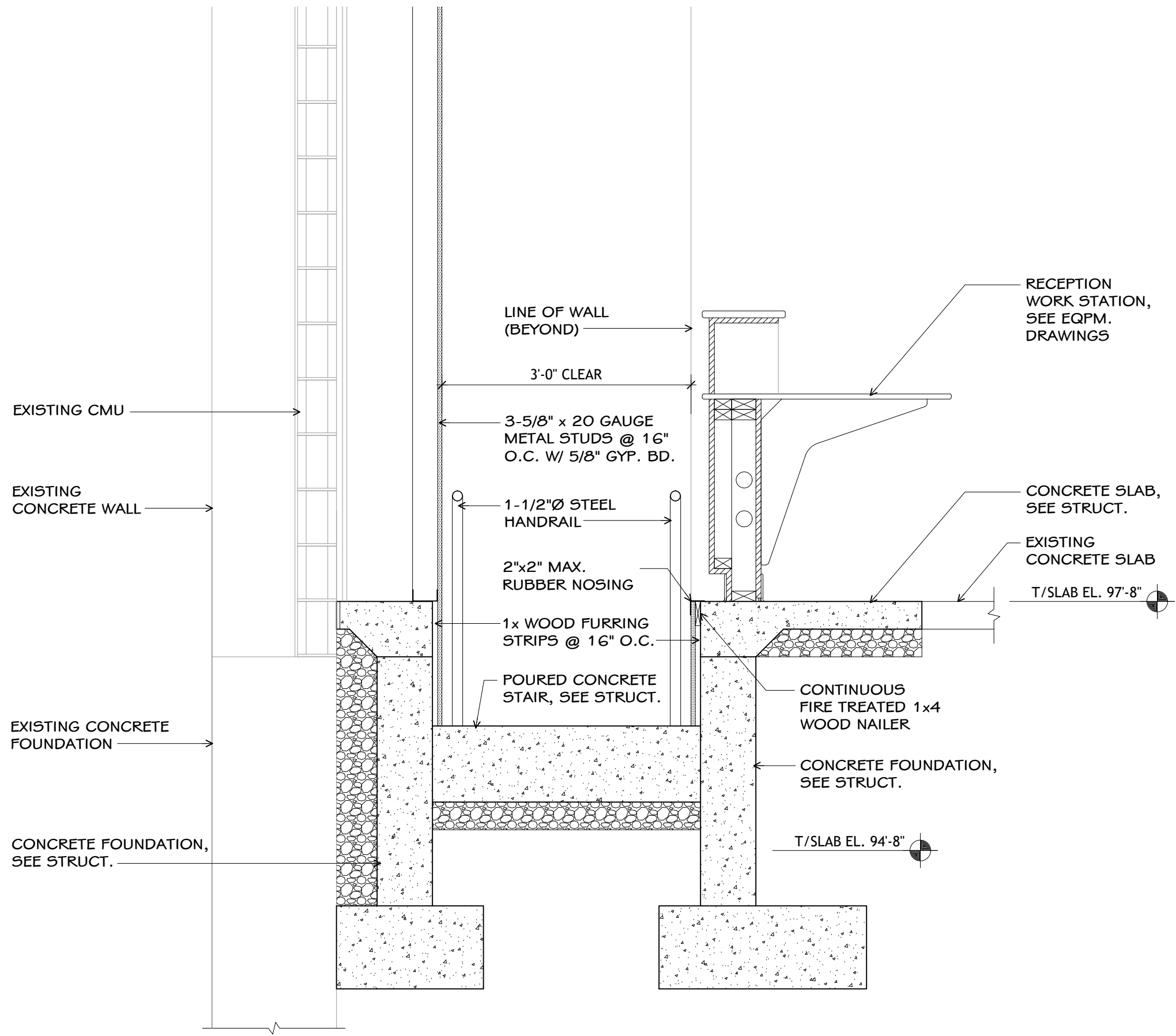
Vault for Domestic & Fire Service

NOT TO SCALE

2
C501

Domestic Water and Fire Protection Vault

NOT TO SCALE



Drawn	HG
Checked By	HG
Project No.	23-228.001
Date	04/25/2024

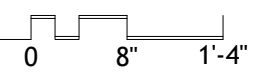
Revisions	1	
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Certified By

1
AD-3C

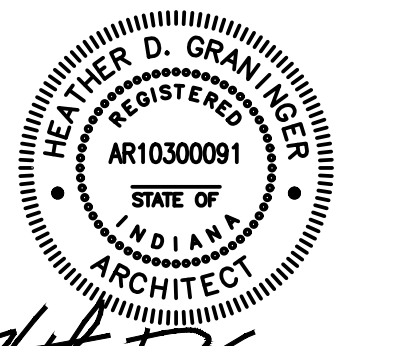
STAIR SECTION

full size plot scale: 3/4"=1'-0"

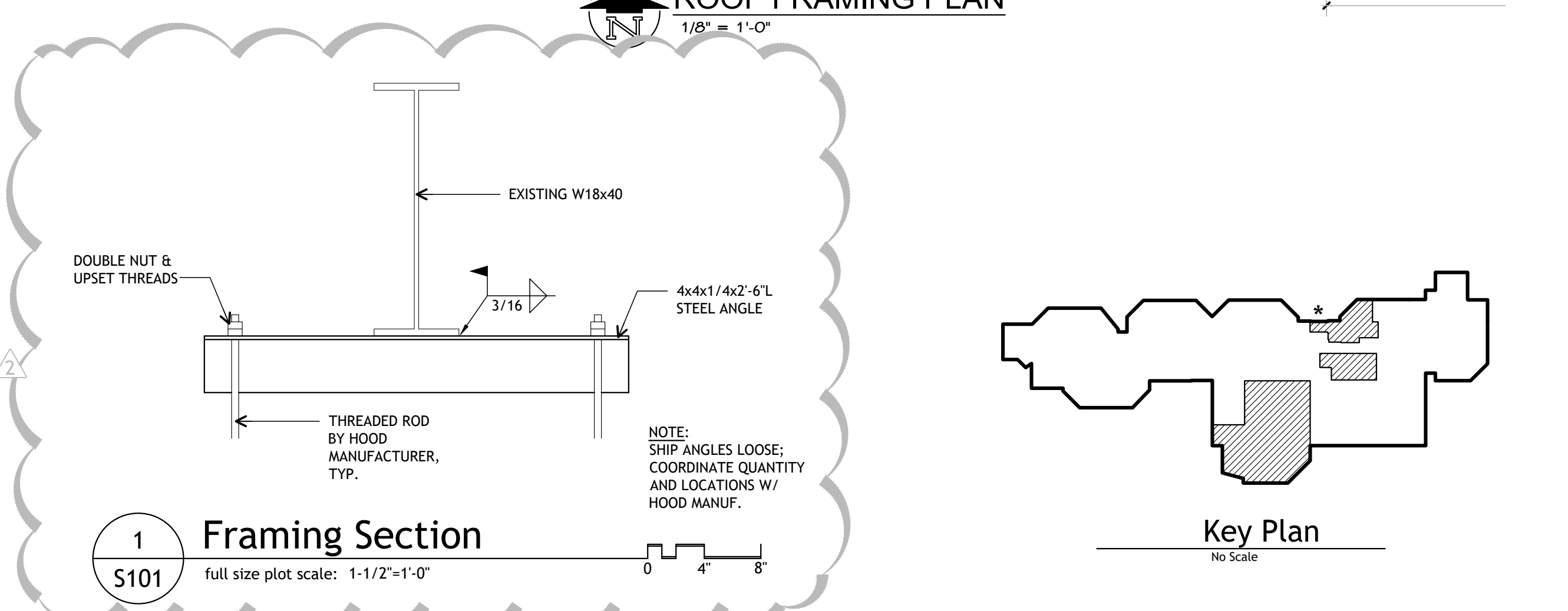
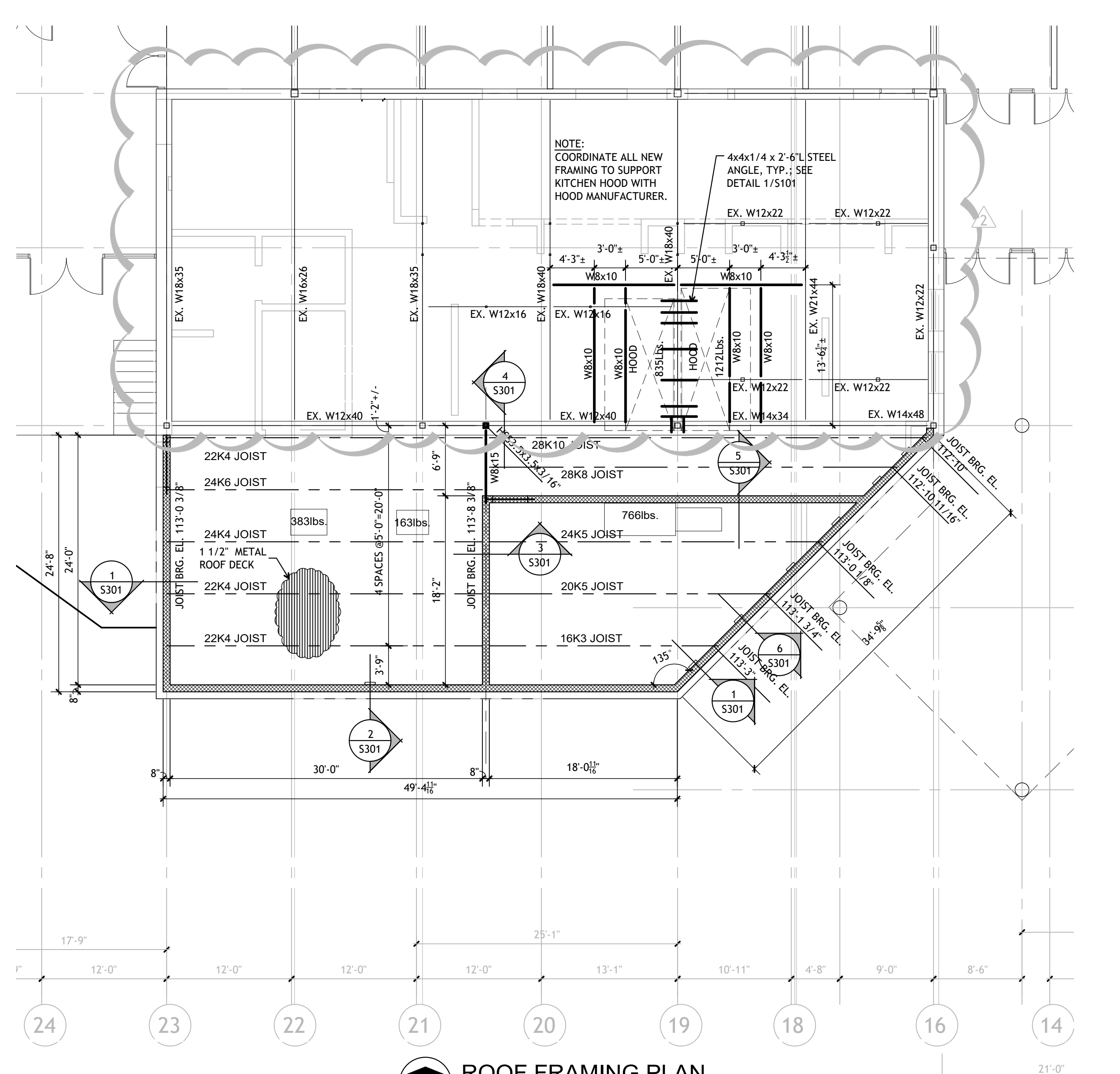
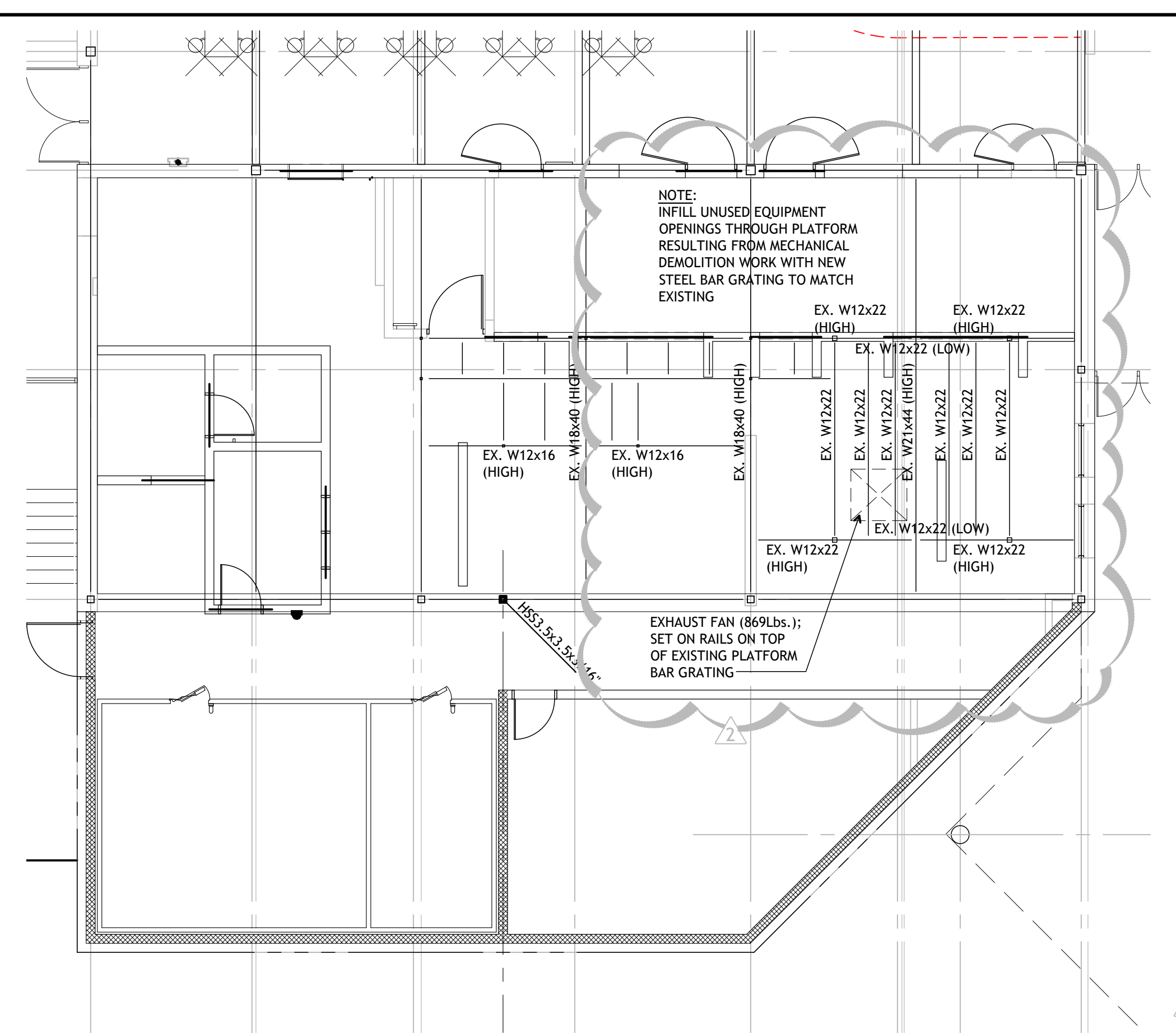
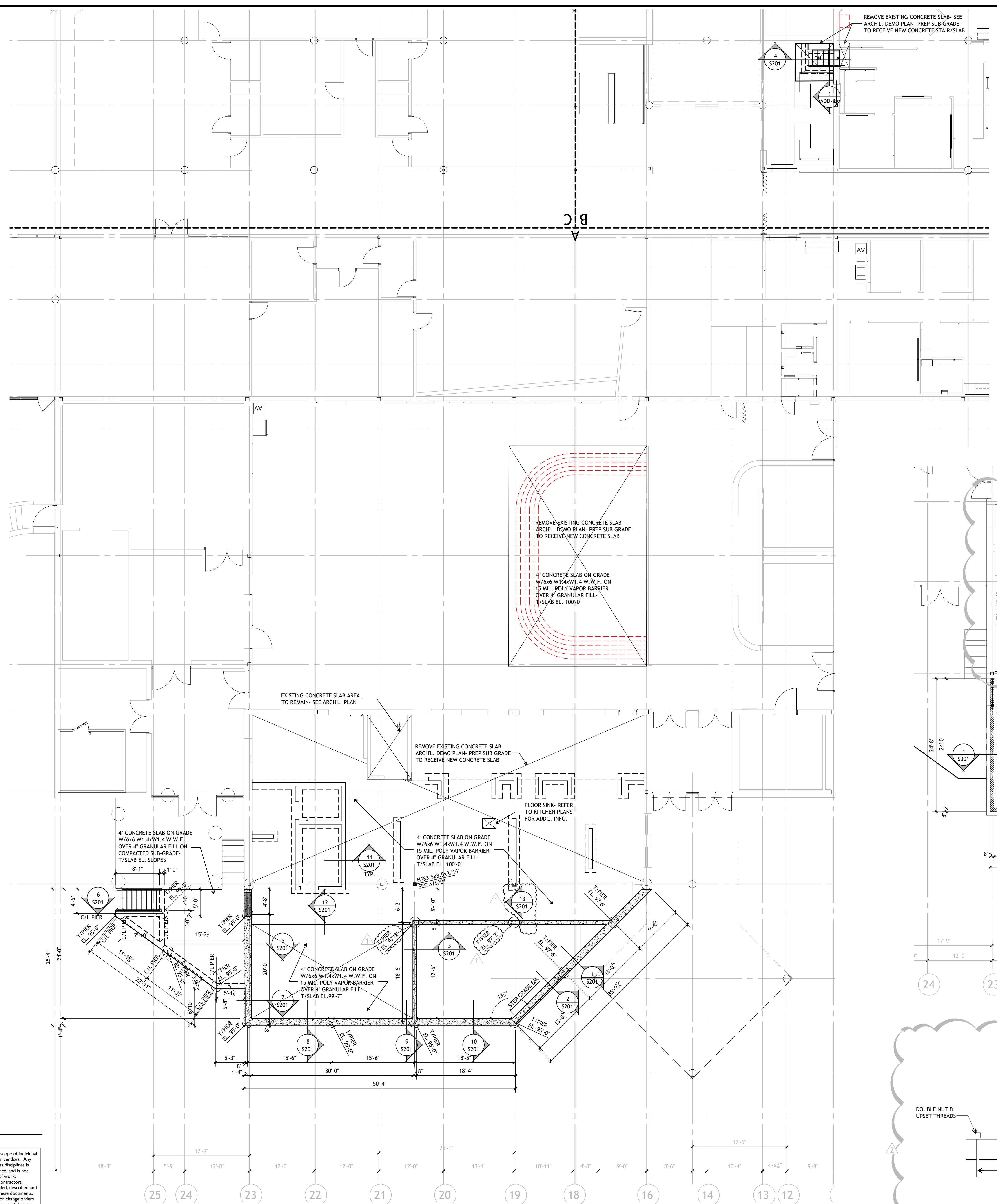


**NORTH HARRISON
ELEMENTARY SCHOOL
2024 ADDITION AND
RENOVATIONS**

Sheet
AD-3C



ISSUED FOR DATE
Public Bidding Addendum #2 04-03-2024
Addendum #3 04-22-2024
04-25-2024



Notice
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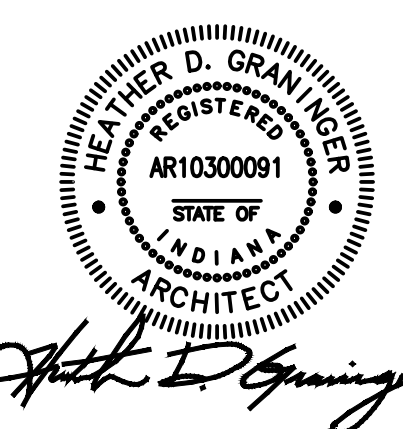
PROJECT TITLE
**NORTH HARRISON
ELEMENTARY SCHOOL**
2024 ADDITION AND
RENOVATIONS

OWNER
**NORTH HARRISON
COMMUNITY SCHOOLS**
1115 W WHISKEY RUN RD. NW
RAMSEY, INDIANA 47166

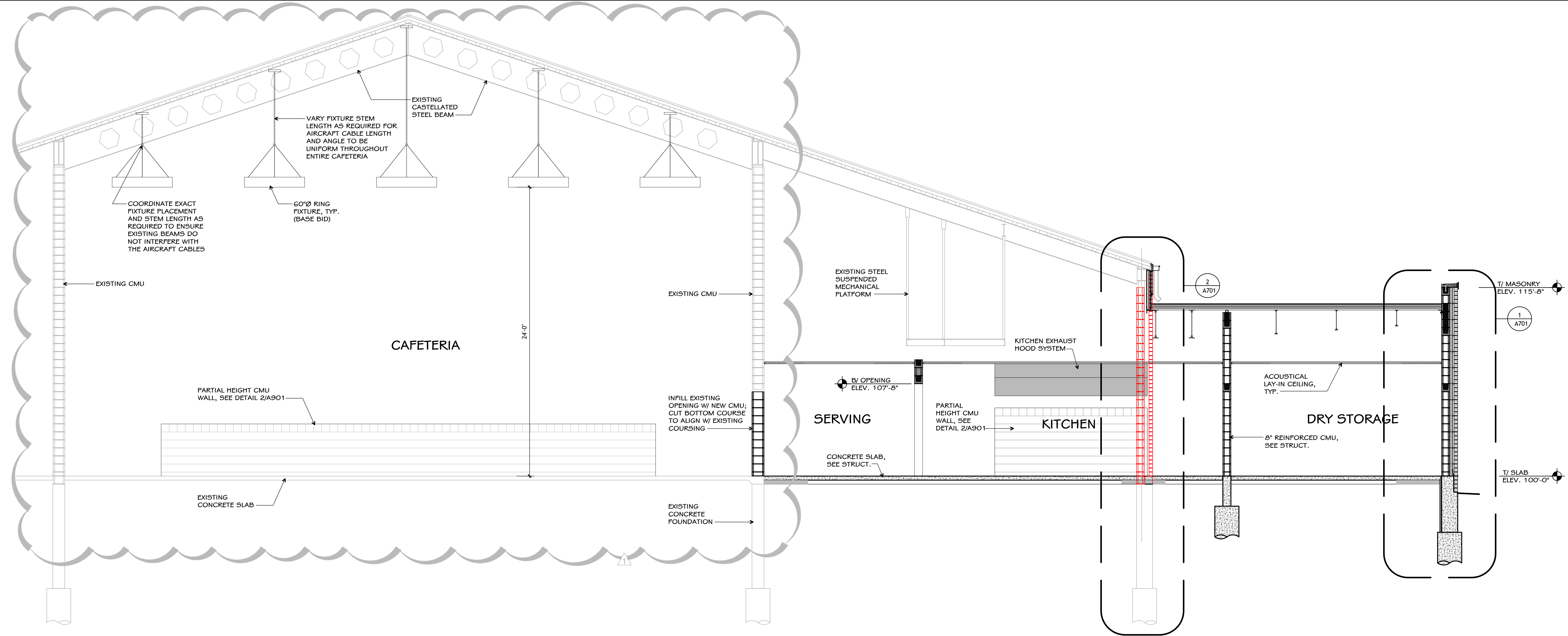
SHEET TITLE
FOUNDATION & ROOF FRAMING PLAN

DATE
APRIL 3, 2024

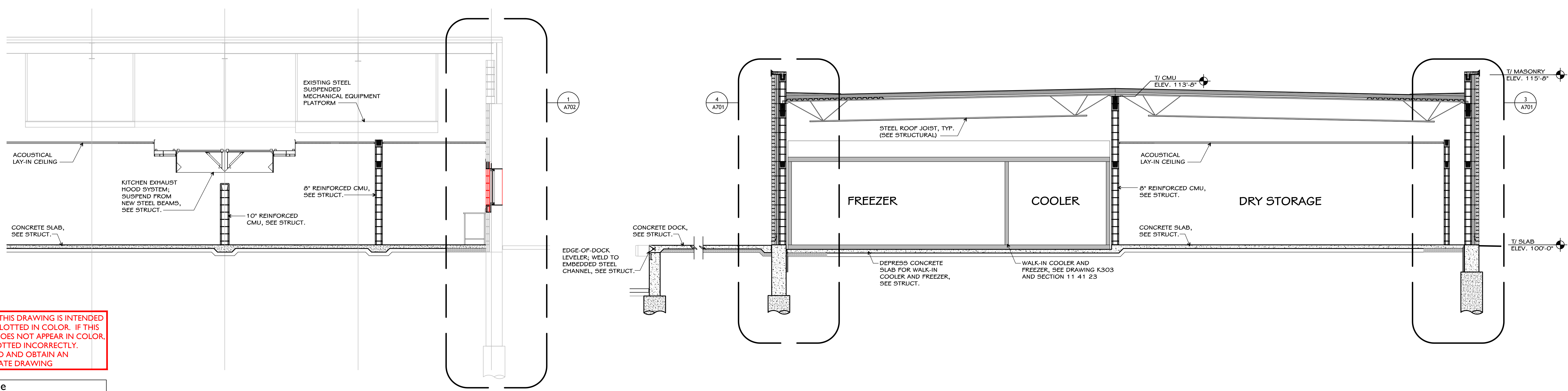
SHEET NUMBER
S 101
23-228.001



ISSUED FOR _____ DATE _____
Public Bidding Addendum No. 3 04-03-2024
04-25-2024



1 Building Section
A601 full size plot scale: 1/4"=1'-0"
0 2'-0" 4'-0"



3 Building Section
A601 full size plot scale: 1/4"=1'-0"
0 2'-0" 4'-0"

2 Building Section
A601 full size plot scale: 1/4"=1'-0"
0 2'-0" 4'-0"

NOTE: THIS DRAWING IS INTENDED TO BE PLOTTED IN COLOR. IF THIS NOTE DOES NOT APPEAR IN COLOR, IT IS PLOTTED INCORRECTLY. DISCARD AND OBTAIN AN ACCURATE DRAWING

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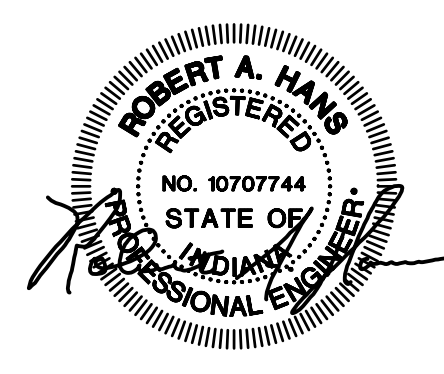
PROJECT TITLE
**NORTH HARRISON
ELEMENTARY SCHOOL**
2024 ADDITION AND
RENOVATIONS

OWNER
**NORTH HARRISON
COMMUNITY SCHOOLS**
1115 W WHISKEY RUN RD. NW
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SHEET TITLE
BUILDING SECTIONS

DATE
APRIL 3, 2024

SHEET NUMBER
A 601
23-228.001



ISSUED FOR	DATE
Public Bidding	04-03-2024
Addendum No. 1	04-12-2024
Addendum No. 2	04-22-2024
Addendum No. 3	04-24-2024

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NORTH HARRISON
ELEMENTARY SCHOOL
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NORTH HARRISON
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1115 W WHISKEY RUN RD. NW
RAMSEY, IN 47166

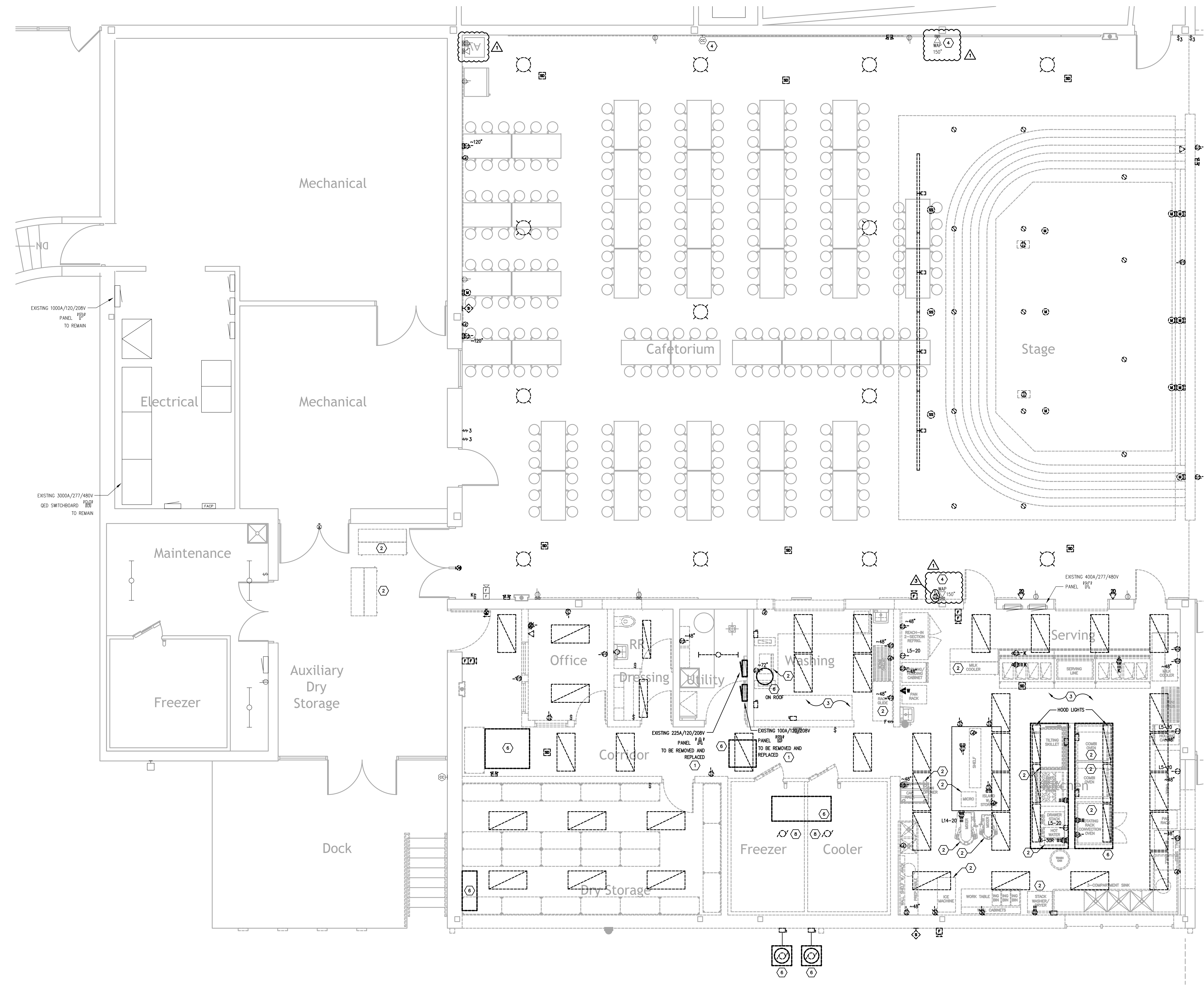
SHEET TITLE
PARTIAL FIRST FLOOR PLAN -
ELECTRICAL DEMOLITION - AREA A
SHEET NUMBER
E200A
DATE
APRIL 3, 2024

GENERAL DEMOLITION NOTES :

- DOTTED LINES INDICATE ITEMS FOR REMOVAL (U.O.N.) AND THIN SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
- THE CONTRACTOR SHALL MAINTAIN THE CONTINUITY OF EXISTING CIRCUITS THAT CONTAIN DEVICES OR EQUIPMENT THAT ARE TO REMAIN. WHEN DEMOLITION OF AN ELECTRICAL DEVICE (OR CIRCUIT) IS INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL ENSURE THAT OTHER DEVICES OR EQUIPMENT "UPSTREAM" OR "DOWNSTREAM" OF THE CIRCUITS SHALL REMAIN IN "PRE-DEMOLITION" WORKING ORDER. "LEFT-OVER" CIRCUIT BREAKERS SHALL REMAIN, BE SWITCHED TO OFF POSITION, AND BE LABELED AS SPARES IN THEIR PANELS. PROVIDE NEW TYPEWRITTEN DIRECTORIES FOR ALL PANELS AFFECTED.
- LOCATIONS OF DEVICES, CONNECTIONS, ETC. INDICATED ON THIS DRAWING WERE TAKEN FROM VARIOUS SOURCES. THEY ARE DIAGRAMMATIC ONLY AND ARE SUBJECT TO VARIATION FROM EXISTING CONDITIONS. CERTAIN EXISTING ELEMENTS MAY NOT BE INDICATED AT ALL. THE CONTRACTOR PROPOSING TO DO ANY PART OF THE WORK INDICATED HEREON SHALL VISIT THIS SITE AND DETERMINE TO HIS SATISFACTION THAT THEY MAY COMPLETE ALL WORK REQUIRED FOR THE BID WHICH HE PROPOSES.
- REMOVE ALL ASSOCIATED BACKBOXES, CONDUIT AND CONDUCTORS FOR DEVICES / FIXTURES / ETC. BEING REMOVED (BACK TO SOURCE), WHETHER INDICATED OR NOT (U.O.N.). CONTRACTOR SHALL PATCH AND REPAIR ANY EXISTING WALLS, FLOORS OR CEILING WHERE DEVICES ARE SHOWN TO BE REMOVED (PATCH AND REPAIR TO RECEIVE NEW FINISHES - SEE ARCHITECTURAL PLANS).
- COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH OWNER. TURN OVER ITEMS REMOVED TO OWNER AT THEIR OPTION.
- COORDINATE WITH OTHER TRADES FOR THE REMOVAL AND/OR RELOCATION OF ELECTRICAL DEVICES AND CONNECTIONS ASSOCIATED WITH THEIR EQUIPMENT.
- PROVIDE TEMPORARY EMERGENCY EXIT LIGHTS AT CONSTRUCTION BARRIERS AS REQUIRED.
- CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING WALLS / CEILING AS REQUIRED WHERE DEVICES ARE BEING REMOVED OR INSTALLED.
- UNUSED/ABANDONED CONDUCTORS DISCOVERED ABOVE ACCESSIBLE CEILING SHALL BE REMOVED IN ACCORDANCE WITH NEC REQUIREMENTS.
- EXISTING ELECTRICAL SYSTEMS IN CONFLICT WITH CONSTRUCTION SHALL BE RELOCATED TO PERMIT INSTALLATION OF DEVICES AND EQUIPMENT SHOWN ON PLANS.
- CONTRACTOR SHALL SEAL ALL EXISTING AND NEW PENETRATIONS OF BUILDING ENVELOPE (EXTERIOR WALLS, ROOF, ETC.) WATER-TIGHT AND AS APPROVED BY ARCHITECT AND ENGINEER. ROOFING SHALL BE RESTORED BY A LICENSED ROOFING CONTRACTOR BASED ON WRITTEN INSTRUCTIONS AND DETAILS FROM ROOFING MANUFACTURER AS REQUIRED TO MAINTAIN ROOF WARRANTY. REFER TO ARCHITECTURAL AND ENGINEERING PLANS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS.
- ALL EXISTING PANELS AFFECTED BY THIS CONTRACTOR'S WORK SHALL BE PROVIDED WITH NEW TYPEWRITTEN PANEL DIRECTORIES AND INSERT SLEEVES. PANEL DIRECTORIES SHALL NOT USE ROOM NAMES OR NUMBERS FROM THESE DRAWINGS. DIRECTORIES SHALL BE DETAILED AND COORDINATED WITH OWNER'S SITE NUMBERS, FINAL ROOM NUMBERS, IT RACK NAMES, WORKSTATION DESIGNATIONS, ETC. UNUSED BREAKERS SHALL BE IN OFF POSITION. PROVIDE NEW PANEL BOARD LABEL PER DETAIL.
- ALL ABANDONED CABLEING ABOVE CEILING SHALL BE REMOVED. PROVIDE NEW C-HOOK SUPPORTS FOR EXISTING UN-SUPPORTED CABLEING TO REMAIN. COORDINATE WITH OWNER PRIOR TO DEMOLITION TO IDENTIFY EXISTING CABLEING TO REMAIN.
- RELOCATE JUNCTION BOXES AND OTHER EXISTING ITEMS REQUIRING ACCESS TO ACCESSIBLE LOCATIONS WHERE NEW WORK BY ANY TRADE WOULD MAKE SUCH ITEMS UNACCESSIBLE.
- LARGE EXISTING RECESSED DEVICES INDICATED AS DEMOLISHED (CLOCKS, EXIT SIGNS, SPEAKERS) SHALL BE PROVIDED WITH A BLANK COVER PLATE PAINTED TO MATCH. WHERE STUB OUT TURNS INTO EXPOSED FINISHED SPACE RACEWAYS SHALL BE SEALED FLUSH WITH WALL.
- EXISTING KETS COMPUTER DATA AND POWER BELOW CEILING, SURFACE BACKBOXES AND RACEWAYS ARE TO REMAIN FOR FUTURE WHERE POSSIBLE (U.O.N.) AND BE REUSED. WHERE UNUSED, IN CONFLICT W/ NEW WORK, CONTRACTOR SHALL REMOVE. PROVIDE SS BLANK COVERPLATE FOR EXISTING BOXES. EXISTING LOW VOLTAGE CABLEING SHALL BE COMPLETELY REMOVED IN ALL LOCATIONS.
- CONTRACTOR SHALL RE-WORK ANY EXISTING TO REMAIN CONDUITS OR WALL PENETRATIONS WHERE CONFLICTING WITH NEW MAIN DUCTWORK ROUTING. REFER TO MECHANICAL PLANS FOR EXACT LOCATIONS OF DUCTWORK AND PIPING.
- EXISTING SPLINE CEILING DEMOLISHED IN MANY LOCATIONS. CONTRACTOR SHALL RE-SUPPORT EXISTING TO REMAIN CONDUITS. CONTRACTOR SHALL SUPPORT UNSUPPORTED CONDUITS AND CEILING. PROVIDE ALL TREAD ROSS FROM STRUCTURE WITH CONDUIT HANGERS/STRAPS PER NEC 2017.
- EXISTING CABLEING PATHS TO BE REMOVED BACK TO SOURCE AND REPLACED WITH NEW J-HOOK PATHWAYS PER DETAIL. ALL LOW VOLTAGE CABLEING SHALL BE SUPPORTED.
- PROVIDE NEW MOUNTING BRACKETS FOR ALL REINSTALLED TVS.
- ALL RECEPTACLES SHOWN AS EXISTING TO REMAIN SHALL BE REPLACED IN PLACE WITH NEW TAMPER RESISTANT DEVICE. EXISTING WIRING SHALL BE REUSED UNLESS NOTED OTHERWISE.

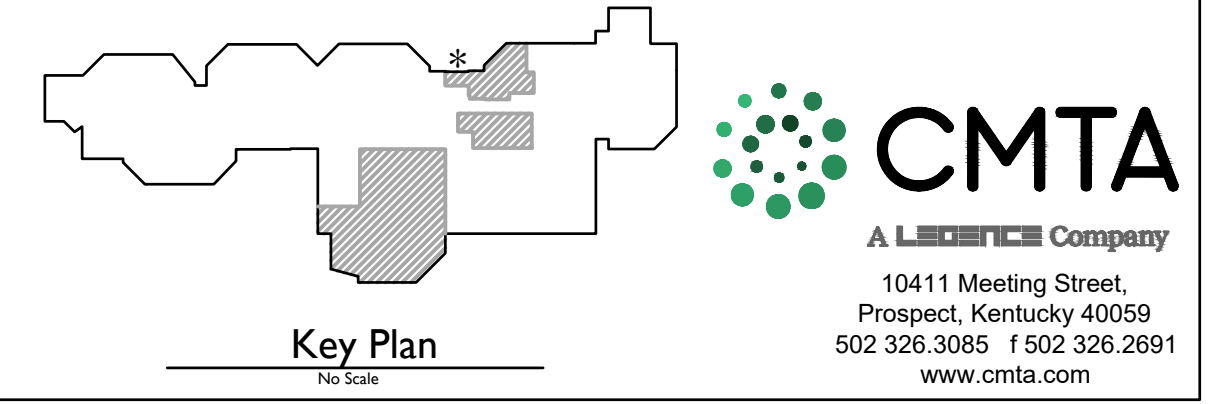
TAGGED NOTES :

- EXISTING PANEL INDICATED SHALL BE REMOVED AND REPLACED. CONTRACTOR SHALL REWORK EXISTING REMAINING BRANCH CIRCUITS TO NEW PANEL AND PROVIDE NEW BRANCH BREAKERS TO MATCH EXISTING. REFER TO PANEL REPLACEMENT/RELOCATION DETAIL FOR ADDITIONAL REQUIREMENTS.
- EXISTING KITCHEN EQUIPMENT INDICATED TO BE SALVAGED AND REINSTALLED IN NEW KITCHEN. CONTRACTOR SHALL INTERCEPT AND EXTEND EXISTING CIRCUIT TO NEW LOCATION WHERE POSSIBLE. RACEWAYS SHALL BE RE-SUPPORTED AS REQUIRED TO COMPLY WITH NFPA 70.
- EXISTING KITCHEN EQUIPMENT NOT INDICATED WITH A KEYNOTE TO BE REMOVED, PROTECTED DURING CONSTRUCTION AND RETURNED TO OWNER.
- REMOVE AND REINSTALL EXISTING ELECTRICAL DEVICE INDICATED. FIELD VERIFY EXACT CONDITIONS.
- EXISTING ELECTRICAL DEVICE INDICATED SHALL BE REMOVED AND RELOCATED. SEE NEW POWER/SYSTEMS PLANS FOR NEW LOCATION.
- ALL EXISTING MECHANICAL EQUIPMENT AND ALL ASSOCIATED DEVICES, CONDUIT, FEEDERS, DISCONNECTING MEANS, ETC. TO BE REMOVED COMPLETELY BACK TO SOURCE AS INDICATED. COORDINATE EXACT REQUIREMENTS, LOCATIONS, ETC. WITH MECHANICAL CONTRACTOR.
- EXISTING LIGHT FIXTURE TO BE REMOVED AND REINSTALLED IN EXISTING CEILING. REFER TO NEW LIGHTING PLAN FOR NEW LOCATION.
- COMPRESSORS FOR EXISTING COOLER AND FREEZER TO BE REMOVED AND REPLACED ONTO NEW ROOF. REFER TO POWER/SYSTEMS PLANS FOR NEW LOCATIONS.
- EXISTING INTERCOM SYSTEM SHALL REMAIN AT LOCATION INDICATED AS PART OF INTERCOM SYSTEM ALTERNATE. IN THE BASE BID, THE CONTRACTOR SHALL REMOVE EXISTING DEVICES AND PROVIDE CABLEING PATHS PER DETAILS AND SPECIFICATIONS TO INTERCOM DEVICE LOCATIONS FOR DEVICE, CABLEING AND EQUIPMENT INSTALLATION BY THE OWNER THROUGH A SEPARATE CONTRACT. AS PART OF THE ALTERNATE, THE CONTRACTOR SHALL PROVIDE NEW DEVICES AND CABLEING TO EXPAND THE EXISTING SYSTEM AS REQUIRED FOR REMOVED SPACES AS SHOWN ON THE DRAWINGS. ALL NEW DEVICE CABLEING SHALL BE ROUTED TO EXISTING RACK WITH ADDITIONAL LENGTH AS REQUIRED FOR FUTURE EXTENSION TO IDF RACK LOCATED IN STORAGE 127. ALTERNATE PRICE SHALL INCLUDE ALL REQUIRED DEVICES, CABLEING AND HEAD-END EQUIPMENT EXPANSION REQUIRED TO ACCOMMODATE NEW SPEAKERS AND ZONES INDICATED ON PLANS. CONTRACTOR SHALL FIELD VERIFY EXACT CONDITIONS PRIOR TO BID TO DETERMINE CONDITION OF EXISTING EQUIPMENT.
- EXISTING CABINET HEATER TO BE REMOVED AND REINSTALLED IN PLACE. PRESERVE EXISTING ELECTRICAL CONNECTIONS AND RECONNECT. COORDINATE EXACT REQUIREMENTS, LOCATIONS, ETC. WITH MECHANICAL CONTRACTOR.
- EXISTING INTERCOM SYSTEM HANDESET SHALL BE RELOCATED TO NEW RECEPTION DESK AS INDICATED ON NEW WORK PLANS AS PART OF INTERCOM SYSTEM ALTERNATE.
- WIRELESS ACCESS POINTS INDICATED FOR REMOVAL SHALL BE TURNED OVER TO THE OWNER.



PARTIAL FIRST FLOOR PLAN - ELECTRICAL DEMOLITION - AREA A
SCALE: 1/4" = 1'-0"
1
E200A

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Prospect, Kentucky 40059
502.326.3005 F.502.326.2691
www.cmta.com



ISSUED FOR DATE
Public Bidding 04-03-2024
Addendum No. 1 04-12-2024
Addendum No. 2 04-22-2024
Addendum No. 3 04-24-2024

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OWNER
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SHEET TITLE
PARTIAL FIRST FLOOR PLAN -
POWER/SYSTEMS - AREA A
SHEET NUMBER
E400A
DATE
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GENERAL NEW WORK NOTES (POWER/SYSTEMS):

- A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.
- B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RUN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPsize CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIPLE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.
- C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. MARK SIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.
- D. RECEPTACLES THAT ARE CONTROLLED BY AN AUTOMATIC MEANS SUCH AS OCCUPANCY SENSOR OR ENERGY MANAGEMENT SYSTEM SHALL BE MARKED IN ACCORDANCE WITH NEC 406.3(E).
- E. LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS OR THROUGH ACCESS/MAINTENANCE CLEARANCES OF EQUIPMENT BY OTHER TRADES.
- F. NO CONDUIT SHALL BE INSTALLED UNDERGROUND, EXCEPT FOR DISTRIBUTION EQUIPMENT FEEDERS, UNLESS REQUIRED FOR THE APPLICATION (FLOOR BOSES, ISLANDS, ETC.) OR SPECIFICALLY INDICATED AS SUCH IN CONSTRUCTION DOCUMENTS. NO CONDUIT SHALL BE INSTALLED WITH CONCRETE SLABS.
- G. REFER TO "SYSTEM INSTALLATION MATRIX" (ON SYSTEMS LEGEND SHEET) AND SPECIFICATIONS FOR CONTRACTOR REQUIREMENTS OF EACH SYSTEM.
- H. THE CONTRACTOR SHALL ROUTE ALL "SYSTEM CONDUIT SUB-UPS" TO THE NEAREST CORRIDOR CABLING PATH (SEE "STUB-UP" DETAILS). REFER TO CABLING PATH INSTALLATION DETAIL FOR ADDITIONAL REQUIREMENTS.
- I. CONTRACTOR SHALL PAINT ALL SYSTEMS CONDUIT SUB-UPS LIGHT BLUE FOR SYSTEMS CABLING INTO THE CORRIDOR CABLING PATH. PROVIDE PULL STRINGS IN ALL NEW CONDUIT RUNS FOR SYSTEM CABLING INSTALLATION.
- J. ALL RECEPTACLES SHOWN AS EXISTING TO REMAIN SHALL BE REPLACED IN PLACE WITH NEW TAMPER RESISTANT DEVICE. EXISTING WIRING SHALL BE REUSED UNLESS NOTED OTHERWISE.

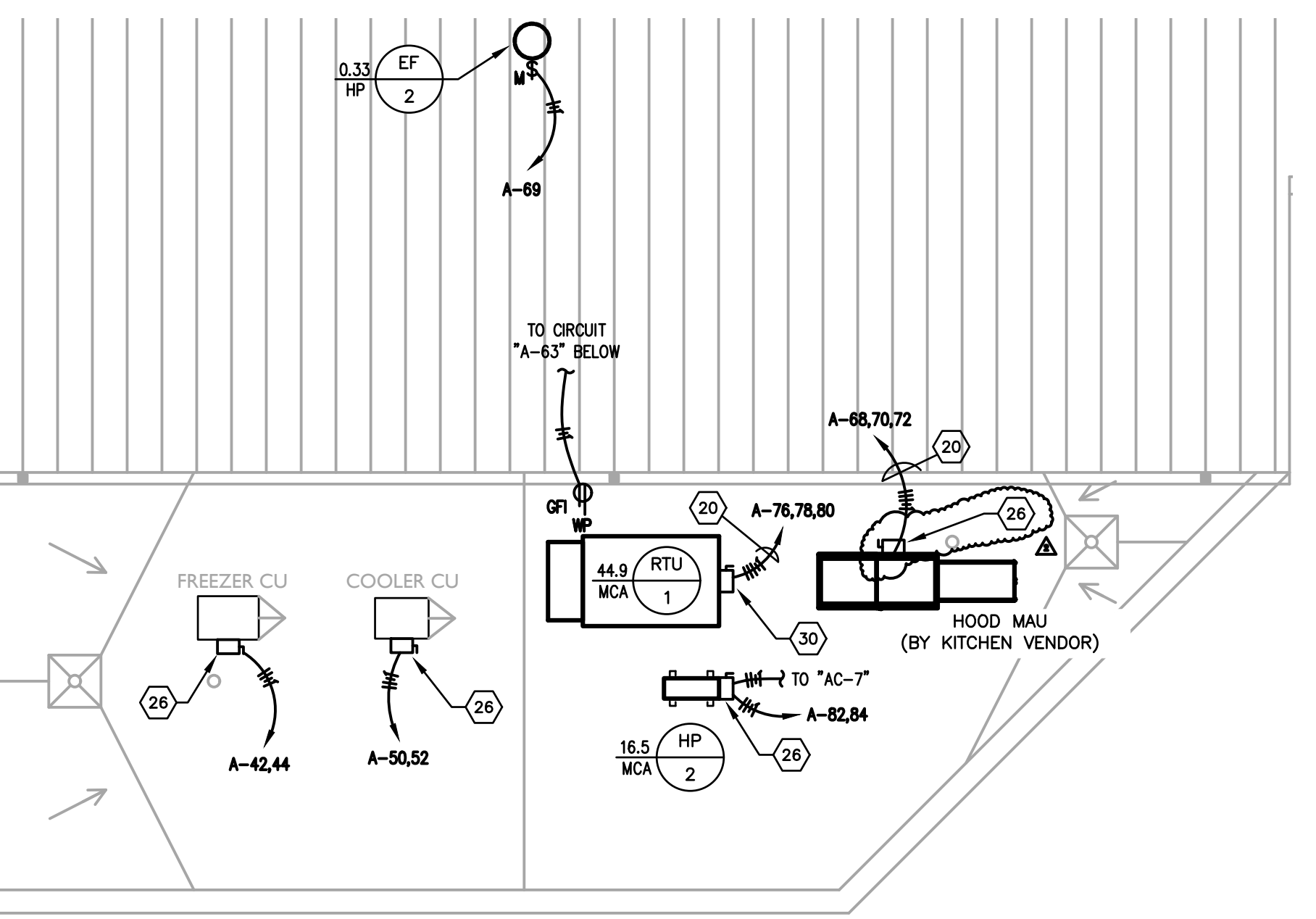
TAGGED NOTES:

1. CUT AND PATCH FLOOR FOR NEW RACEWAYS TO FLOOR BOSES. ROUTE CONCEALED IN NEW WALL INFILL.
2. PROVIDE 6"x6" BOX FOR TERMINATION OF CAFETERIA T.V. CONDUITS. ROUTE SURFACE CONDUITS IN STORAGE A123 AND STUB THRU WALL INTO CAFETERIA. FIELD VERIFY EXACT ROUTES.
3. PROVIDE ADDITIONAL SINGLE-GANG BOX AND 1-1/4" CONDUIT TO A.V. RACK IN CAFETERIA.
4. CONNECT NEW ELECTRICAL DEVICES IN CIRCUIT TO EXISTING CIRCUIT INDICATED. PROVIDE # OF #12 CONDUCTORS AND #12 GROUND IN 3/4" CONDUIT AS INDICATED.
5. PROVIDE # OF #12 CONDUCTORS AND #12 GROUND IN 3/4" CONDUIT TO NEW/SPARE 20A/1P BREAKER(S) IN EXISTING PANEL INDICATED.
6. PROVIDE # OF #10 CONDUCTORS AND #10 GROUND IN 3/4" CONDUIT TO NEW/SPARE 30A/3P BREAKER(S) IN EXISTING PANEL INDICATED.
7. PROVIDE # OF #8 CONDUCTORS AND #10 GROUND IN 3/4" CONDUIT TO NEW/SPARE 40A/3P BREAKER(S) IN EXISTING PANEL INDICATED.
8. PROVIDE # OF #6 CONDUCTORS AND #10 GROUND IN 1" CONDUIT TO NEW/SPARE 60A/3P BREAKER(S) IN EXISTING PANEL INDICATED.
9. PROVIDE NEW 400A/3P CIRCUIT BREAKER IN EXISTING DISTRIBUTION PANEL INDICATED FOR REPLACEMENT PANEL 'A'. REMOVE EXISTING SPARE BREAKERS AS REQUIRED TO CREATE SPACE. FIELD VERIFY EXACT CONDITIONS.
10. PROVIDE # OF #8 CONDUCTORS AND #10 GROUND IN 3/4" CONDUIT TO NEW/SPARE 40A/2P BREAKER(S) IN EXISTING PANEL INDICATED.
11. WIRE NEW DOOR POWER SUPPLY INTO BUILDING FIRE ALARM SYSTEM.
12. PROVIDE 30A/600V/3P FUSIBLE DISCONNECT IN NEMA-1 ENCLOSURE. FUSED AT EQUIPMENT NAMEPLATE. COORDINATE EXACT LOCATION WITH ALL TRADES PRIOR TO ROUGH-IN.
13. PROVIDE 60A/600V/3P FUSIBLE DISCONNECT IN NEMA-1 ENCLOSURE. FUSED AT EQUIPMENT NAMEPLATE. COORDINATE EXACT LOCATION WITH ALL TRADES PRIOR TO ROUGH-IN.
14. PROVIDE 60A/240V/3P FUSIBLE DISCONNECT IN NEMA-1 ENCLOSURE. FUSED AT EQUIPMENT NAMEPLATE. COORDINATE EXACT LOCATION WITH ALL TRADES PRIOR TO ROUGH-IN.
15. ALL NEW SURFACE RACEWAY REQUIRED FOR DEVICE INSTALLATION IN THE CAFETERIA SHALL BE CHARACTERIZED BY CHARTERED WALL AND POKED THROUGH FROM BEHIND WHEREVER POSSIBLE TO AVOID SURFACE WIRING IN THE CAFETERIA. WHERE SURFACE WIRING IS INSTALLED IN ANY FINISHED SPACE, WIRING SHALL BE USED AND PAINTED TO MATCH ADJACENT SURFACES. FIELD VERIFY EXACT CONDITIONS.
16. PROVIDE POWER AND NETWORK DATA DROP TO HVAC CONTROL PANEL. PROVIDE 120V CONNECTION AND DATA BOXES AS REQUIRED. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR.
17. PROVIDE ALL NECESSARY CONNECTIONS FROM EXISTING FIRE ALARM SIGNALING LOOP TO FIRE SUPPRESSION SYSTEM.
18. HOOD CONTROL PANEL. COORDINATE EXACT MOUNTING LOCATION WITH ALL TRADES PRIOR TO ROUGH-IN. REFER TO VENDOR DRAWINGS FOR FURTHER REQUIREMENTS.
19. KITCHEN EXHAUST FAN TO BE MOUNTED TO PLATFORM ABOVE CEILING. REFER TO VENDOR DRAWINGS FOR FURTHER REQUIREMENTS.
20. PROVIDE RACEWAY AND WIRING FOR CONTROL CONNECTION FROM HOOD CONTROL PANEL AS REQUIRED BY KITCHEN HOOD INSTALLATION DRAWINGS.
21. ROUTE CIRCUIT INDICATED THROUGH KITCHEN HOOD CONTROL. CONTRACTOR FOR EMERGENCY SHUTDOWN. REFER TO KITCHEN HOOD CONTROL SCHEMATIC FOR ADDITIONAL REQUIREMENTS.
22. PROVIDE CONTACTOR FOR HOOD EQUIPMENT EMERGENCY SHUTDOWN. MOUNT ABOVE CEILING AT ACCESSIBLE LOCATION. REFER TO KITCHEN HOOD CONTROL SCHEMATIC FOR ADDITIONAL REQUIREMENTS.
23. PROVIDE ROUGH-IN, CONDUIT, AND WIRING FOR HOOD FIRE SUPPRESSION ACTIVATION STATION. COORDINATE EXACT REQUIREMENTS WITH KITCHEN VENDOR SHOP DRAWINGS.
24. PROVIDE # OF #12 CONDUCTORS AND #12 GROUND IN 3/4" CONDUIT TO NEW/SPARE 20A/2P BREAKER IN EXISTING PANEL INDICATED.
25. EXISTING INTERCOM SYSTEM SHALL REMAIN AT LOCATED INDICATED AS PART OF BASE BID. CONTRACTOR SHALL REMOVE EXISTING DEVICES AND CABLING WHERE INDICATED ON PLANS AND REPLACE WITH NEW AS PART OF BASE BID. CONTRACTOR SHALL PROVIDE NEW CABLING BACK TO EXISTING INTERCOM RACK WITH LENGTH TO BE EXTENDED TO THE RACK LOCATED IN STORAGE 127 AS PART OF FUTURE INTERCOM UPGRADE. ALTERNATE PERIOD SHALL REMOVE ALL NEW INTERCOM SCOPE FOR A BUILDING-WIDE INTERCOM UPGRADE THAT WOULD BE PART OF A SEPARATE CONTRACT. ALL DEMOLITION SCOPE WOULD REMAIN IN THIS CONTRACT.
26. PROVIDE 30A/240V/3P FUSIBLE DISCONNECT IN NEMA-3R ENCLOSURE FUSED AT EQUIPMENT NAMEPLATE. COORDINATE EXACT LOCATION WITH ALL TRADES PRIOR TO ROUGH-IN.
27. PROVIDE # OF #12 CONDUCTORS AND #12 GROUND IN 3/4" CONDUIT TO NEW/SPARE 20A/3P BREAKER IN EXISTING PANEL INDICATED.
28. PROVIDE NETWORK DROP TO WALK-IN EQUIPMENT FOR TEMPERATURE MONITORING. COORDINATE EXACT LOCATION WITH VENDOR.
29. EXISTING INTERCOM SYSTEM HANDSET RELOCATED TO NEW RECEPTION DESK AS INDICATED AS PART OF INTERCOM SYSTEM ALTERNATE. PROVIDE CONNECTIONS THROUGH DESK AS REQUIRED.
30. PROVIDE 60A/240V/3P FUSIBLE DISCONNECT IN NEMA-3R ENCLOSURE FUSED AT EQUIPMENT NAMEPLATE. COORDINATE EXACT LOCATION WITH ALL TRADES PRIOR TO ROUGH-IN.
31. PROVIDE TEMPORARY SERVING LINE CONNECTIONS AT LOCATIONS INDICATED FOR TEMPORARY USE OF EXISTING SERVING LINE EQUIPMENT AT WALL INDICATED. COORDINATE EXACT LOCATIONS WITH OWNER PRIOR TO ROUGH-IN. REMOVE DEVICES AND REPLACE WITH 120V RECEPTACLES UPON COMPLETION. PROVIDE TEMPORARY CONNECTIONS FROM EXISTING AND REPLACEMENT PANEL 'A' AS PHASING REQUIRES.
32. PROVIDE ON/OFF TOGGLE SWITCH AT POTATO PEELER. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.

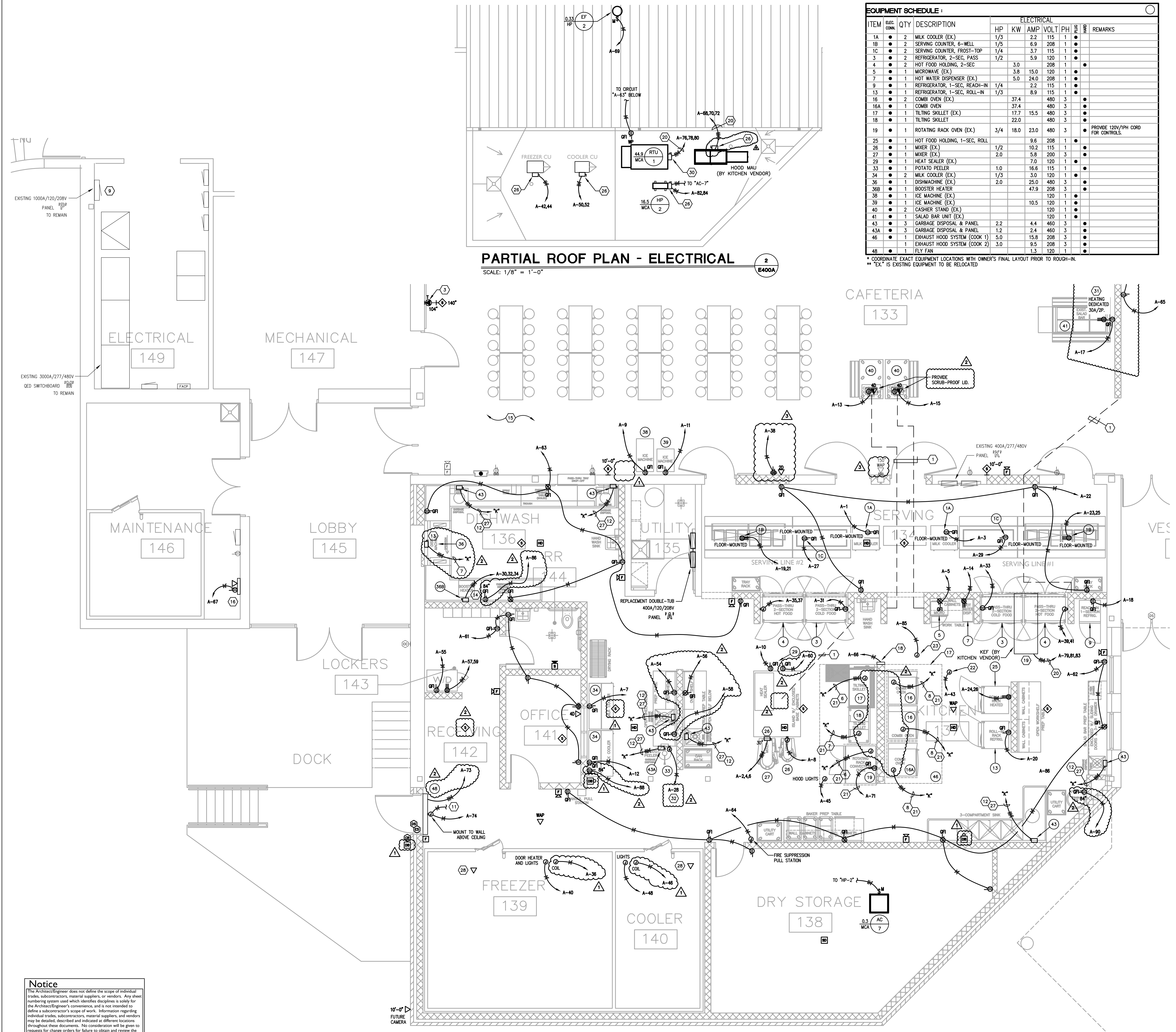
EQUIPMENT SCHEDULE:

ITEM	QTY	DESCRIPTION	HP	KW	AMP	VOLT	PH	REMARKS
1A	2	MILK COOLER (EX.)	1/3	2.2	115	1		
1B	2	SERVING COUNTER, 6-WELL	1/5	6.9	208	1		
1C	2	SERVING COUNTER, FROST-TOP	1/4	3.7	115	1		
3	2	REFRIGERATOR, 2-SEC. PASS	1/2	5.9	120	1		
4	2	HOT FOOD HOLDING, 2-SEC		3.0	208	1		
5	1	MICROWAVE (EX.)		3.8	15.0	120	1	
7	1	HOT WATER DISPENSER (EX.)		5.0	24.0	208	1	
9	1	REFRIGERATOR, 1-SEC. REACH-IN	1/4	2.2	115	1		
13	1	REFRIGERATOR, 1-SEC. ROLL-IN	1/3	8.9	115	1		
16	2	COMBI OVEN (EX.)		37.4	480	3		
16A	1	COMBI OVEN		37.4	480	3		
17	1	TILTING SKILLET (EX.)		17.7	15.5	480	3	
18	1	TILTING SKILLET		22.0	480	3		
19	1	ROTATING RACK OVEN (EX.)	3/4	18.0	23.0	480	3	PROVIDE 120V/1PH CORD FOR CONTROLS.
25	1	HOT FOOD HOLDING, 1-SEC. ROLL		9.6	208	1		
26	1	MIXER (EX.)	1/2	10.2	115	1		
27	1	MIXER	2.0	5.8	200	3		
29	1	HEAT SEALER (EX.)		7.0	120	1		
33	1	POTATO PEELER	1.0	16.6	115	1		
34	2	MILK COOLER (EX.)	1/3	3.0	120	1		
36	1	DISHMACHINE (EX.)	2.0	25.0	480	3		
36B	1	BOOSTER HEATER		47.9	208	3		
38	1	ICE MACHINE (EX.)			120	1		
39	1	ICE MACHINE (EX.)		10.5	120	1		
40	2	CASHER STAND (EX.)			120	1		
41	1	SALAD BAR UNIT (EX.)			120	1		
43	3	GARBAGE DISPOSAL & PANEL	2.2	4.4	460	3		
43A	3	GARBAGE DISPOSAL & PANEL	1.2	2.4	460	3		
46	1	EXHAUST HOOD SYSTEM (COOK 1)	5.0	15.8	208	3		
46	1	EXHAUST HOOD SYSTEM (COOK 2)	3.0	9.5	208	3		
48	1	FLY FAN		1.3	120	1		

* COORDINATE EXACT EQUIPMENT LOCATIONS WITH OWNER'S FINAL LAYOUT PRIOR TO ROUGH-IN.
** "EX." IS EXISTING EQUIPMENT TO BE RELOCATED



PARTIAL ROOF PLAN - ELECTRICAL
SCALE: 1/8" = 1'-0"
E400A



PARTIAL FIRST FLOOR PLAN - POWER/SYSTEMS - AREA A
SCALE: 1/4" = 1'-0"
E400A

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LIGHT FIXTURE SCHEDULE :

TYPE	DESCRIPTION	MODEL	LUMENS	REMARKS	VOLTAGE
A2	RECESSED LAY-IN 2'x4' DIMMABLE LED FLAT PANEL WITH ALUMINUM HOUSING, POLYCARBONATE LENS	TGS #88-24-50-35 HUBBELL EQUAL COOPER EQUAL PHILIPS EQUAL LITHONIA "CPANEL" EQUAL	8250 LUMENS @50 INPUT WATTS	0-10V DIMMABLE DRIVER WITH LESS THAN 10% THD BALLAST.	UNV
B1	SAME AS "A2" EXCEPT WITH 2'x2' HOUSING	TGS #88-22-40-35 HUBBELL EQUAL COOPER EQUAL PHILIPS EQUAL LITHONIA "CPANEL" EQUAL	4400 LUMENS @40 INPUT WATTS	0-10V DIMMABLE DRIVER WITH LESS THAN 10% THD BALLAST.	UNV
C	PENDANT LED RING FIXTURE	SP # AP11949-1100W-120/277V-4000K-80-DIM1-H10-F800-MA-MB02 OR EQUAL	19,038 LUMENS @190 INPUT WATTS	PROVIDE AIRCRAFT CABLING AS REQUIRED TO MOUNT EACH FIXTURE AT 24"-0" AFF. PROVIDE MOUNTING HARDWARE FROM EXPOSED STRUCTURE ABOVE. PROVIDE UNISTRUT AS REQUIRED. REFER TO ARCHITECTURAL ELEVATIONS FOR STEM LENGTH AND ANGLE REQUIREMENTS.	UNV
C1	PENDANT INDIRECT/DIRECT PATTERN LINEAR LED FIXTURE	MARK # S4PDM-SPF-32FT-400C-80CR-40K-300LM-180CR-140K-100LM-5CT -MINI-FL-DC-MVOLT OR EQUAL	DIRECT: 791LM/F @ 6.33W/F INDIRECT: 325LM/F @ 1.95W/F	PROVIDE AIRCRAFT CABLING AS REQUIRED TO MOUNT EACH FIXTURE AT 24"-0" AFF. PROVIDE MOUNTING HARDWARE FROM EXPOSED STRUCTURE ABOVE. PROVIDE UNISTRUT AS REQUIRED. REFER TO ARCHITECTURAL ELEVATIONS FOR STEM LENGTH AND ANGLE REQUIREMENTS.	UNV
D	4" RECESSED CAN LIGHT FIXTURE	HALO # H04-20-D010-HM4-12-840-41-MD-C OR EQUAL	2000 LUMENS @22 INPUT WATTS		UNV
EW	20W EMERGENCY REMOTE BATTERY WITH SELF-DIAGNOSTICS	SURE-LITES # INV20-NC-S-SD OR EQUAL			UNV
K1	2'x2' LAY-IN LED TROFFER WITH FLAT WHITE EXTRUDED ALUMINUM DOOR FRAME, WITH NEOPRIME GASKETING AND INVERTED A12.125 LENS	LITHONIA #26TL2 40L RW A12125 G21 LP835 CLR ABC LATC COOPER EQUAL LIGHTOLIER EQUAL	4000 LUMENS @35 INPUT WATTS	0-10V DIMMABLE DRIVER TO 1%.	UNV
K2	2'x4' LAY-IN LED TROFFER WITH FLAT WHITE EXTRUDED ALUMINUM DOOR FRAME, WITH NEOPRIME GASKETING AND INVERTED A12.125 LENS	LITHONIA #26TL4 72L RW A12125 G21 LP835 CLR ABC LATC COOPER EQUAL LIGHTOLIER EQUAL	7200 LUMENS @53 INPUT WATTS	0-10V DIMMABLE DRIVER TO 1%.	UNV
X1	UNIVERSAL MOUNT EXIT SIGN, INTEGRAL BATTERY	LITHONIA # LQC-W-R-ELN COOPER EQUAL LIGHTOLIER EQUAL HUBBELL EQUAL	LED		UNV
EB	125W REMOTE EMERGENCY BATTERY INVERTER	ISOLITE #E3MINI 125 LC MB COOPER EQUAL LIGHTOLIER EQUAL HUBBELL EQUAL	166 INPUT WATTS	COORDINATE LOCATION WITH EQUIPMENT TO ALLOW ACCESS FOR MAINTENANCE AND TESTING.	UNV
WL1	LED VANTY LIGHT WITH EXTRUDED ALUMINUM HOUSING AND ACRYLIC DIFFUSER	BROWNLEE LIGHTING #FLW-RD-MIN-1260-BN-X-H08-BN-40K COOPER EQUAL LIGHTOLIER EQUAL	750 LUMENS @8 INPUT WATTS		UNV
W	EXTERIOR WALL MOUNT LED FIXTURE WITH DIE CAST ALUMINUM HOUSING, IMPACT-RESISTANT TEMPERED GLASS LENS WITH MULTIPLE LIGHT ENGINES	LITHONIA #WST LED P3 40K VW MVOLT SF COOPER EQUAL LIGHTOLIER EQUAL	6689 LUMENS @50 INPUT WATTS	FIXTURE SHALL HAVE FULL CUTOFF. FIXTURE SHALL BE MOUNTED AT 10'-0" AFF UNLESS NOTED OTHERWISE. FINISH SHALL BE BLACK.	UNV

LIGHTING CONTROLS SEQUENCE OF OPERATIONS:

- DAYLIGHT PHOTOCELL OPERATION: DEVICE SHALL BE SET TO MAINTAIN DESIGNED ARTIFICIAL ILLUMINATION LEVEL IN EACH ZONE/AREA.
- ALL LUMINAIRES WITHIN A DAYLIGHT ZONE SHALL BE SEPARATELY CONTROLLED FROM THE REST OF THE GENERAL LIGHTING IN THE SPACE. THESE LUMINAIRES SHALL BE CONTROLLED USING AUTOMATIC DAYLIGHT HARVESTING CONTROLS. THE DAYLIGHT HARVESTING CONTROLS SHALL PROVIDE SMOOTH AND CONTINUOUS DIMMING. DIMMING SHALL BE INITIATED WHEN TOTAL ILLUMINATION (COMBINED DAYLIGHT AND ELECTRIC LIGHTING) REACHES 150% OF THE MAINTAINED DESIGN ILLUMINANCE PROVIDED BY THE ELECTRIC LIGHTING ONLY.
- VACANCY SENSOR OPERATION: DEVICE SHALL BE MANUAL ON AND AUTOMATIC OFF. LIGHTING TO TURN OFF AFTER 20 MINUTES OF NO OCCUPANCY.
- OCCUPANCY SENSOR OPERATION: DEVICE SHALL BE AUTOMATIC ON AND AUTOMATIC OFF. LIGHTING TO TURN OFF AFTER 15 MINUTES OF NO OCCUPANCY.
- VACANCY SENSOR WITH DIMMING CONTROLS: PROVIDE 70% OF LIGHT IN ZONE WHEN WALL SWITCH IS ACTIVATED. OCCUPANT SHALL BE ABLE TO ADJUST FROM 0% TO 100% ON WITH RAISE/LOWER SOFTWARE ARE NOT ACCEPTABLE.
- OCCUPANCY SENSOR WITH DIMMING CONTROLS: PROVIDE 70% OF LIGHT IN ZONE WHEN OCCUPANCY SENSOR IS ACTIVATED. OCCUPANT SHALL BE ABLE TO ADJUST FROM 0% TO 100% ON WITH RAISE/LOWER SOFTWARE ARE NOT ACCEPTABLE.
- OCCUPANCY SENSOR CONTROL ZONES WITHOUT MANUAL OR DIGITAL SWITCHING SHALL BE CONTROLLED BY OCCUPANCY SENSORS ONLY.
- INTERIOR LIGHTING RELAY CABINET(S) WITH OCCUPANCY SENSOR OVERRIDES.
- TEMPERATURE CONTROLS CONTRACTOR SHALL INTERFACE WITH BUILDING AUTOMATION SYSTEM. H.A. OCCUPIED AND UNOCCUPIED SCHEDULES VIA THE BUILDING AUTOMATION SYSTEM TIME CLOCK AND USER SCHEDULES.
- H.C. OCCUPIED MODE: ALL RELAYS SHALL CLOSE. INTERIOR LIGHT FIXTURES "ON".
- H.D. DURING OCCUPIED MODE, OCCUPANTS SHALL BE ABLE TO CONTROL LIGHT FIXTURES FROM LOCAL SWITCHES AND DIMMERS.
- H.E. UNOCCUPIED MODE: ALL RELAYS SHALL OPEN AND TURN ALL INTERIOR LIGHT FIXTURES "OFF".
- H.F. EXIT SIGNS, EMERGENCY LIGHTING CHARGING, SENSING CIRCUITS AND NIGHT LIGHTS SHALL REMAIN "ON". BYPASS RELAYS.
- H.G. WHEN AN OCCUPANCY SENSOR IS INITIATED, LIGHTS IN CONTROL ZONE ASSOCIATED WITH OCCUPANCY SENSOR TURN "ON" FOR 20 MINUTES.
- EXTERIOR LIGHTING (CONTRACTOR CABINET(S)).
- EXTERIOR LIGHTING SHALL BE CONTROLLED VIA BUILDING AUTOMATION SYSTEM.
- EXTERIOR LIGHTING SHALL BE PROVIDED BY THE BUILDING AUTOMATION SYSTEM TIME CLOCK AND PHOTOCELL.
- INTERIOR LIGHTING SEQUENCE OF OPERATION.
- INTERIOR LIGHTING SHALL BE CONTROLLED VIA STAND-ALONE OCCUPANCY SENSORS.
- OCCUPANCY SENSORS SHALL BE TIED TO BAS AS INDICATED BY DETAILS.
- REFER TO COMMON AREA LIGHTING CONTROL ZONE DIAGRAMS. ZONES HAVE BEEN GIVEN A DESIGNATION FOR CLARITY. OCCUPANCY SENSORS IN EACH ZONE SHALL BE TIED TOGETHER AND SHALL CONTROL LIGHT FIXTURES WITHIN EACH ZONE VIA POWER PACKS.
- AREAS SUCH AS CLASSROOMS, STORAGE ROOMS, CONFERENCE ROOMS, OFFICES, ETC HAVE BEEN INDICATED ON LIGHTING CONTROL ZONE DIAGRAM FOR CLARITY. OCCUPANCY SENSORS IN THESE AREAS SHALL BE TIED TOGETHER AND CONTROL LIGHTING IN RESPECTIVE AREA/ROOM.

GENERAL LIGHTING CONTROL NOTES:

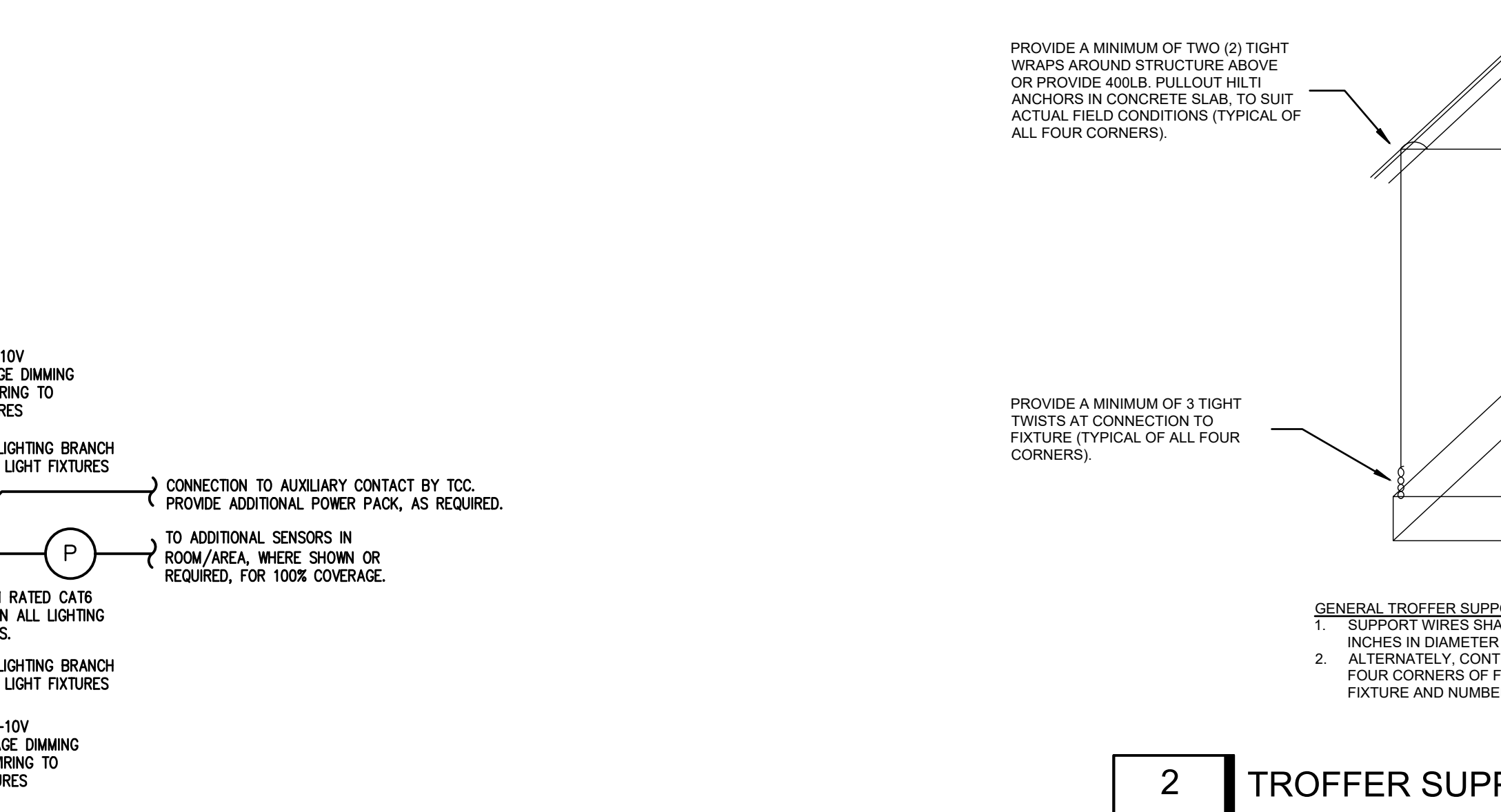
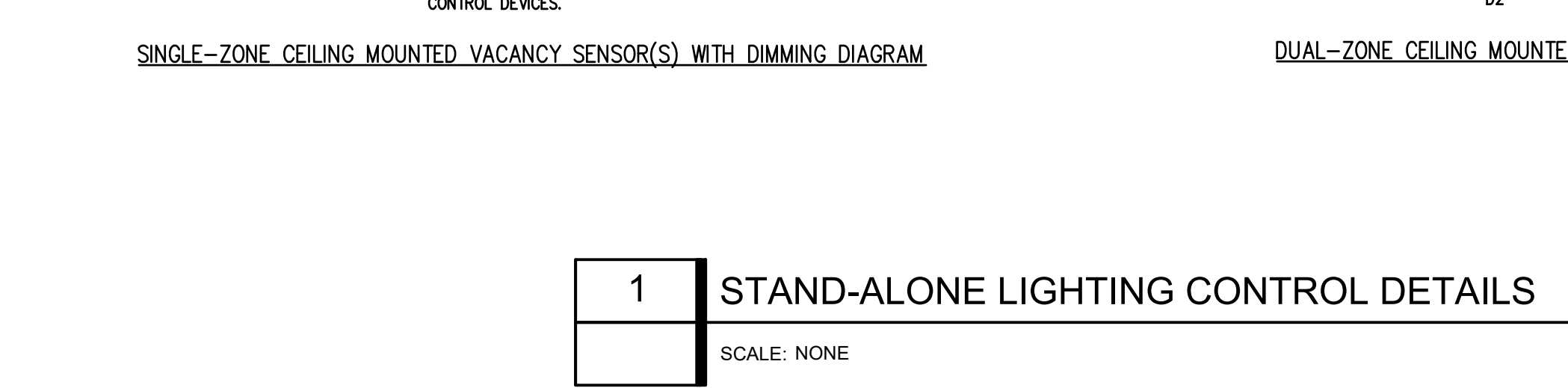
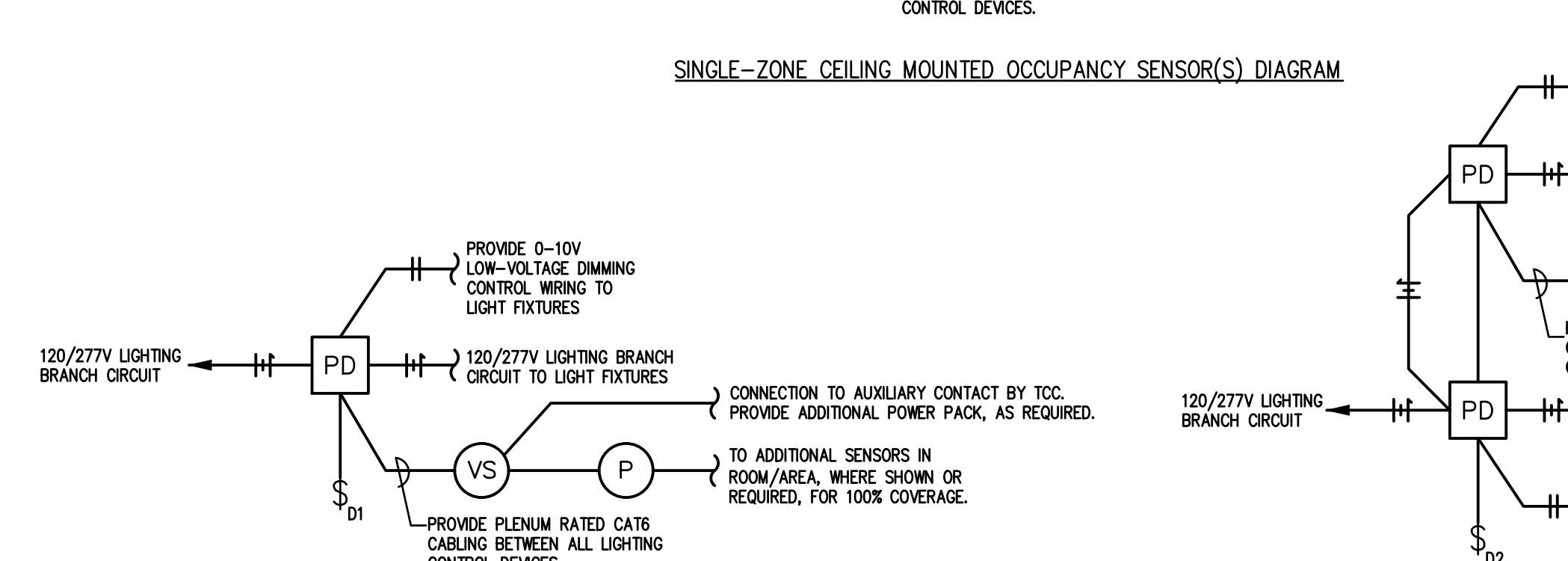
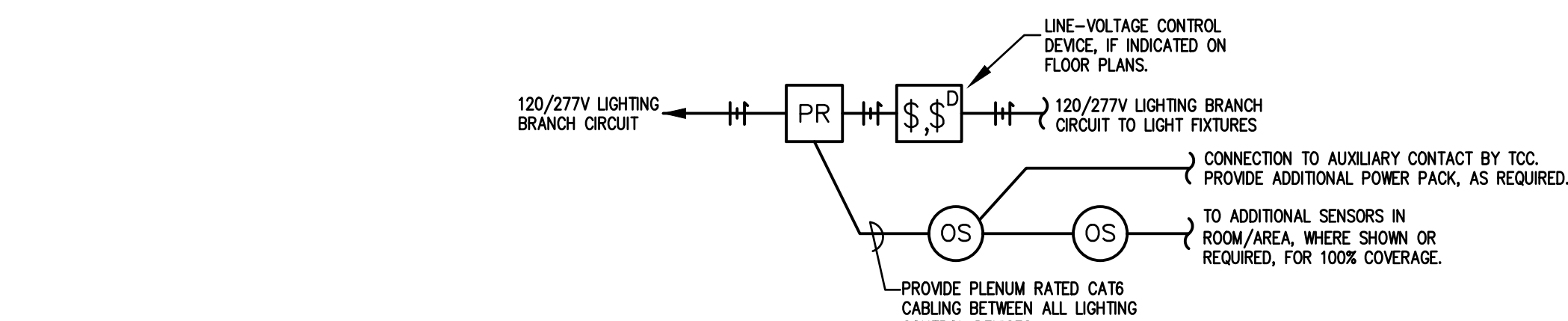
- PROVIDE [] AND [] FOR NON-DIMMABLE ZONES.
- PROVIDE [] AND [] WHEN CONTROLLING EMERGENCY LIGHTING BRANCH CIRCUIT.
- VERIFY ALL WIRING REQUIREMENTS WITH MANUFACTURER OF LIGHTING CONTROL DEVICES PRIOR TO ROUGH-IN. THIS SCHEMATIC DIAGRAM IS MEANT TO BE ILLUSTRATIVE ONLY.
- LIGHTING CONTROL SYSTEM SHALL COMPLY WITH ENERGY CODE.
- LIGHTING CONTROL DEVICES SHALL BE SENSOR SWITCH (SLIGHT), WATTSTOPPER (DLM) OR COOPER CONTROLS. ALL DEVICES SHALL BE FURNISHED BY ONE MANUFACTURER.
- ALL LIGHTING CONTROLS SHALL BE STAND-ALONE. SYSTEMS THAT REQUIRE HEAD-END SOFTWARE ARE NOT ACCEPTABLE.
- CEILING SENSORS AND PHOTOCELLS SHALL NOT BE SUPPORTED BY THE CEILING TILES. PROVIDE MOUNTING BRACKET TO SUPPORT SENSORS AND PHOTOCELLS FROM THE CEILING GRID.
- ALL POWER PACKS AND RELAYS SHALL BE CONCEALED, READILY ACCESSIBLE AND LOCATED ABOVE AN ACCESSIBLE CEILING.
- ALL OCCUPANCY AND VACANCY SENSORS SHALL BE DUAL-TECHNOLOGY TYPE.
- PROVIDE 4-HOOKS ON 2' CENTERS ABOVE ACCESSIBLE CEILING FOR ALL LOW-VOLTAGE CABLING. 4-HOOK INSTALLATION SHALL NOT INTERFERE WITH REMOVAL OF CEILING TILES. ADD SHALL BE ROUTED PARALLEL AND PERPENDICULAR TO THE AREAS WALLS. PROVIDE CABLING IN CONDUIT IF CEILING IS OPEN OR ABOVE INACCESSIBLE CEILING.
- PROVIDE AN EXTRA 1' OF COILED-UP, LOW-VOLTAGE CONTROL WIRING ABOVE ALL CEILING MOUNTED OCCUPANCY/VACANCY SENSOR AND PHOTOCELLS.
- ALL DIGITAL WALL STATIONS SHALL HAVE CUSTOM ENGRAVED BUTTONS. EXACT ENGRAVING SHALL BE COORDINATED DURING SHOP DRAWING REVIEW.
- ALL CONTROL STATIONS SHALL HAVE FACTORY ENGRAVED BUTTON FACES.
- WHERE MULTIPLE CIRCUITS SERVE ONE ZONE, PROVIDE ADDITIONAL POWER PACKS AS REQUIRED TO CONTROL ALL CIRCUITS IN ZONE TOGETHER. PROVIDE ALL ACCESSORIES, DEVICES AND CABLING FOR OPERATION AS DESCRIBED.
- ALL 0-10V WIRING AND CATEGORY CABLING SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR FOR A COMPLETE AND OPERATIONAL SYSTEM.
- THE INTERFACE CONNECTION FROM THE POWER PACKS AUXILIARY RELAYS TO THE BUILDING AUTOMATION SYSTEM SHALL BE PROVIDED BY THE TEMPERATURE CONTROLS CONTRACTOR (TCC).
- PROVIDE REMOTE TEST SWITCHES FOR EMERGENCY RELAY CONTROLLERS "ER" AND/OR "ET" LOCATED ABOVE ACCESSIBLE CEILING. TEST SWITCH SHALL BE LOCATED WITHIN THE AREA THAT THE "ER" IS SERVING. COORDINATE EXACT LOCATION WITH ARCHITECT AND ENGINEER PRIOR TO ROUGH-IN.
- ADJUST SENSOR LOCATION AND SENSITIVITY LEVELS TO MINIMIZE NUISANCE TRIPPING AND FALSE OFF'S.
- SET AUTOMATIC OFF INTERVAL AT 20 MINUTES.
- POWER PACKS LOCATED IN GYMNASIUMS AND AREAS SUBJECT TO DAMAGE SHALL BE INSTALLED IN A NEMA 1 METAL ENCLOSURE.
- SUBMIT FULL SIZE MANUFACTURER SHOP DRAWINGS, WITH BILL OF MATERIALS, INDICATING ALL DEVICE LOCATIONS, OCCUPANCY/VACANCY SENSOR COVERAGE PATTERNS AND RISER DIAGRAMS. PROVIDE ADDITIONAL OCCUPANCY SENSORS, AS REQUIRED, FOR 100% COVERAGE.
- CONTRACTOR SHALL VERIFY ALL ROOM NAMES AND NUMBERS USED FOR LABELING IS IN ACCORDANCE WITH FINAL DESIGNATIONS CHOSEN BY THE OWNER AND ARCHITECT.
- EXACT LOCATION OF ALL DEVICES SHALL BE INDICATED ON RECORD/AS-BUILT DRAWINGS.
- EXTRA MATERIALS: PROVIDE TWO (2) OF EACH LIGHTING CONTROL DEVICE UTILIZED. EXTRA MATERIALS SHALL BE HANDLED OVER TO THE OWNER AT SUBSTANTIAL COMPLETION.
- FURNISH ALL REQUIRED CONTROL WIRING AND ALL COMPONENTS NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM.
- COORDINATE AL DEVICE BACK BOX SIZES, LOCATIONS, MOUNTING HEIGHTS, ETC. WITH MANUFACTURER RECOMMENDATIONS AND WIRING DIAGRAM PRIOR TO CONSTRUCTION.

LIGHTING CONTROL LEGEND

LIGHT SWITCH, SPST, GENERAL PURPOSE	SEE SPECS.		\$
LIGHT SWITCH, 3-WAY	SEE SPECS.		\$3
FULL RANGE SLIDE DIMMER WITH ON/OFF BUTTON, 277VAC RATED	LEVITON	WATTSTOPPER	\$0
DIGITAL WALL SWITCH, ON/OFF, SINGLE ZONE	SENSOR SWITCH HFCOM	WATTSTOPPER LMSW-101	\$11
DIGITAL ON/OFF WALL SWITCH WITH DIMMING, SINGLE ZONE	SENSOR SWITCH HFCOM DX	WATTSTOPPER LMDW-101	\$01
OCCUPANCY SENSOR WALL SWITCH, DUAL TECHNOLOGY, SINGLE POLE, (800W AT 120VAC, 1200W AT 277VAC)	SENSOR SWITCH WSK P01	WATTSTOPPER DSW-301	\$05
VACANCY SENSOR WALL SWITCH, DUAL TECHNOLOGY, SINGLE POLE, (800W AT 120VAC, 1200W AT 277VAC)	SENSOR SWITCH WSK P01 VA	WATTSTOPPER DSW-301	\$05
OCCUPANCY SENSOR WALL SWITCH WITH 0-10V DIMMING, DUAL TECHNOLOGY, SINGLE POLE	SENSOR SWITCH WSK P01 D	WATTSTOPPER DSW-311	\$0SD
CEILING MOUNTED EXTENDED RANGE DUAL-TECHNOLOGY OCCUPANCY SENSOR, WITH AUXILIARY RELAY FOR CONNECTION TO BAS BY TCC.	SENSOR SWITCH HCM P01 9 R/B AR	WATTSTOPPER LMDC-100	\$05
CEILING MOUNTED EXTENDED RANGE DUAL-TECHNOLOGY OCCUPANCY SENSOR, WITH AUXILIARY RELAY FOR CONNECTION TO BAS BY TCC.	SENSOR SWITCH HCM P01 9 R/B AR	WATTSTOPPER LMDC-100	\$05

LIGHTING CONTROL LEGEND NOTES:

- OCCUPANCY SENSORS SHALL BE PROGRAMMED AS AUTOMATIC ON, AUTOMATIC OFF.
- VACANCY SENSORS SHALL BE PROGRAMMED AS MANUAL ON, AUTOMATIC OFF.
- OR EQUAL BY WATTSTOPPER OR COOPER CONTROLS.
- SENSOR AUTOMATIC OFF TIME INTERVAL TO BE SET AT 20 MIN.
- ADJUST SENSOR LOCATION AND SENSITIVITY LEVELS TO MINIMIZE NUISANCE TRIPPING AND FALSE OFF'S.
- ALL DEVICES SHALL BE LOCATED IN ACCESSIBLE LOCATIONS APPROVED BY ENGINEERS.
- REFER TO SPECIFICATION FOR DEVICE FINISHES.



2 TROFFER SUPPORT DETAIL
SCALE: NONE

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1 STAND-ALONE LIGHTING CONTROL DETAILS
SCALE: NONE

Key Plan

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STATE OF KENTUCKY
NO. 10707744
EXPIRES 12/31/2024

ISSUED FOR DATE
Public Bidding 04-03-2024
Addendum No. 1 04-12-2024
Addendum No. 2 04-22-2024
Addendum No. 3 04-24-2024

PROJECT TITLE
NORTH HARRISON
ELEMENTARY SCHOOL

OWNER
NORTH HARRISON
COMMUNITY SCHOOLS

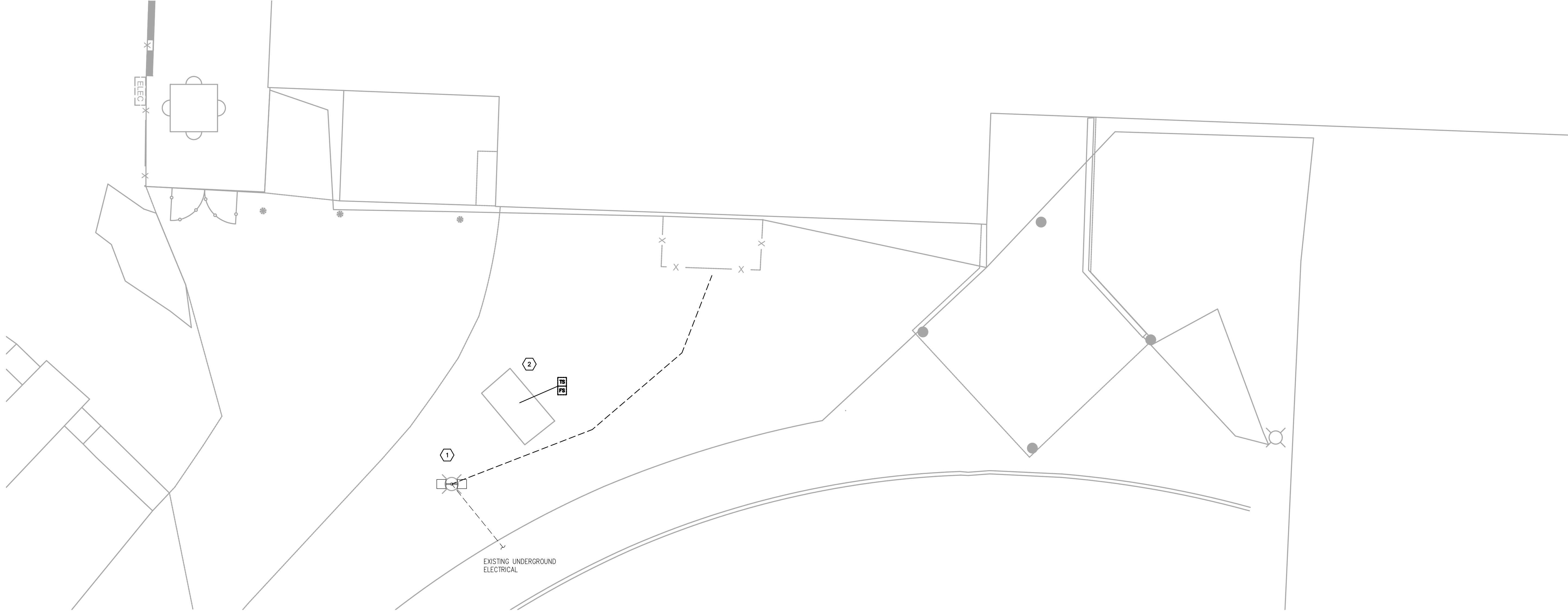
1115 W WHISKEY RUN RD. NW
RAMSEY, IN 47166

2024 ADDITIONS AND
RENOVATIONS

SHEET TITLE
ELECTRICAL DETAILS

DATE
APRIL 3, 2024

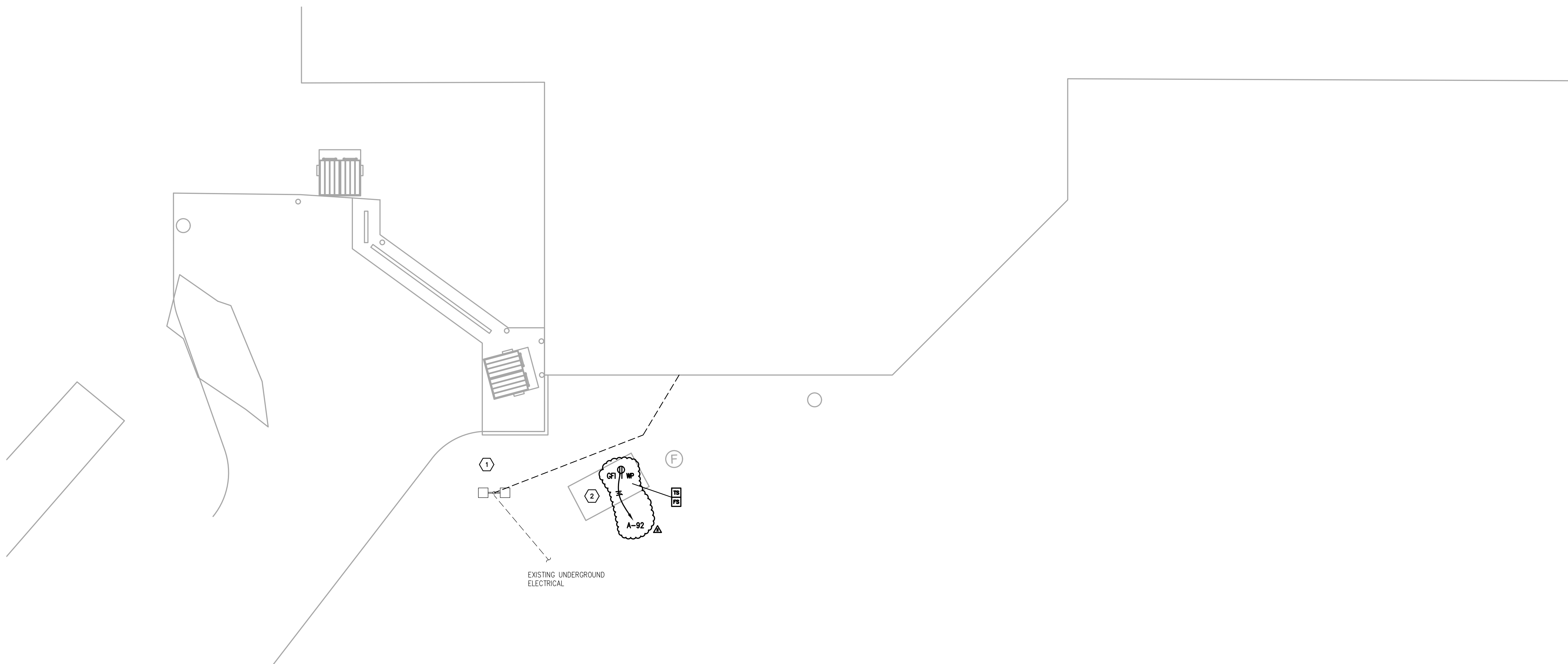
SHEET NUMBER
E601



PARTIAL SITE PLAN - ELECTRICAL DEMOLITION

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

1
UE100



PARTIAL SITE PLAN - NEW ELECTRICAL

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

2
UE100

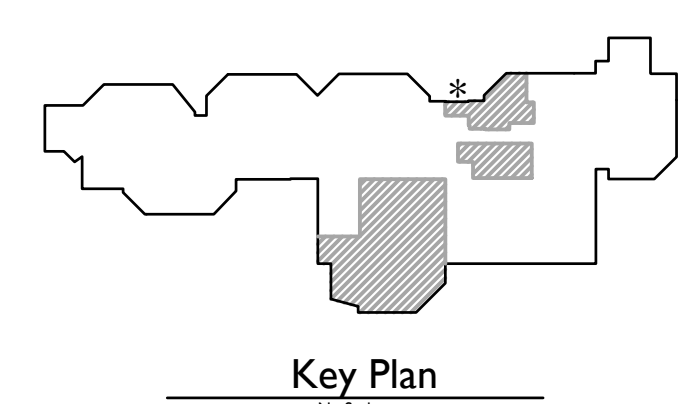
GENERAL SITE WORK NOTES :

- A. DO NOT SCALE FROM MECHANICAL AND ELECTRICAL DRAWINGS. FIELD VERIFY REQUIRED DIMENSIONS AND COORDINATE WITH CIVIL DRAWINGS AND SURVEYS.
- B. REFER ALSO TO ALL OTHER PLANS AND THE SPECIFICATION, BUT ESPECIALLY TO: THE SITE SURVEY, THE ARCHITECTURAL SITE PLAN, THE SITE GRADING PLAN, THE PLANTING PLAN (WHERE AVAILABLE), FOUNDATION PLANS, APPROPRIATE MECHANICAL & ELECTRICAL FLOOR PLANS FOR SERVICE CONTINUATIONS, THE SITE UTILITY PLAN - MECHANICAL & ELECTRICAL. WHERE THERE ARE CONFLICTS AMONG THESE PLANS AND/OR RELATED SPECIFICATIONS, ADVISE THESE ENGINEERS AT LEAST TEN DAYS PRIOR TO SUBMISSION OF BIDS.
- C. ALL FEES AND ANY OTHER COSTS TO UTILITY COMPANIES, MUNICIPALITIES, INSPECTORS, REVIEWING AGENCIES, ETC. ARE TO BE INCLUDED AS A PART OF THIS CONTRACT.
- D. FEDERAL, STATE, LOCAL, MUNICIPALITY AND UTILITY COMPANY CODES, RULES, REGULATIONS AND REQUIREMENTS APPLY UNLESS EXCEEDED BY THIS DESIGN.
- E. WHEN INTERRUPTION OF AN EXISTING UTILITY OR SERVICE IS PLANNED OR OCCURS ACCIDENTALLY, THE CONTRACTOR(S) SHALL WORK CONTINUOUSLY AS NEEDED TO RESTORE SAME PROVIDING PREMIUM TIME AS NEEDED AT NO INCREASE IN THE CONTRACT PRICE.
- F. LOCATIONS, DEPTHS, MATERIAL TYPES, ELEVATIONS, ETC. OF ALL APPURTENANCES, LINES, BUILDINGS, ETC. INDICATED ON THESE DRAWINGS WERE TAKEN FROM VARIOUS SOURCES, ARE DIAGNOSTIC ONLY AND ARE SUBJECT TO SUBSTANTIAL VARIATION FROM EXISTING CONDITIONS. EXISTING UTILITIES LOCATIONS MAY VARY. CONSEQUENTLY ALL CONTRACTORS SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO INSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND/OR LOCAL RULES, REGULATIONS, STANDARDS AND SAFETY REQUIREMENTS.
- G. PROVIDE LONG RADIUS ELBOWS FOR UNDERGROUND CONDUIT BENDS. WHERE SERVING A UTILITY OWNED TRANSFORMER, THE UTILITY STANDARDS SHALL TAKE PRECEDENCE.
- H. UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY. IF ANY VARIATION OCCURS, CONSULT THE ENGINEER. CONTRACTOR SHALL VISIT THE SITE AND FIELD VERIFY THE ROUTING OF ALL UTILITIES NEW AND EXISTING PRIOR TO SUBMISSION OF BIDS. SUBMISSION OF A BID PROPOSAL INDICATES THAT THE CONTRACTOR IS FULLY AWARE OF ALL OBSTRUCTIONS AND WILL INSTALL ALL OF THE NEW UTILITIES WITHOUT REQUESTS FOR ANY ADDITIONAL CHANGES.
- I. PROVIDE GALVANIZED RIGID CONDUIT FOR EXTERIOR UNDERGROUND TRANSITIONS TO ABOVE GRADE. EXTEND CONDUIT A MINIMUM OF 4' ABOVE GRADE.
- J. CONTRACTOR SHALL PERFORM A SMOKE TEST ON ALL CONDUITS INSTALLED ON SITE AND SHALL TAKE ALL NECESSARY CORRECTIVE ACTION IF NOT FOUND IN COMPLIANCE WITH FACILITY STANDARDS.
- K. CONTRACTOR SHALL CONTACT ENGINEER FOR INSPECTION OF TRENCHES PRIOR TO INSTALLATION OF CONDUITS OR RACEWAYS. PROVIDE PHOTOS UPON REQUEST.
- L. CONTRACTOR SHALL CUT AND PATCH ALL PAVEMENT, CURBING, ETC. AS REQUIRED FOR WORK. CONTRACTOR SHALL REPAIR ALL LANDSCAPING THAT IS DAMAGED FOR WORK. FINISH GRADE, SEED AND STRAW ALL DISTURBED GREEN SPACES. ALL PATCH AND REPAIR WORK SHALL BE IN ACCORDANCE WITH BOTH CIVIL AND LANDSCAPE DRAWINGS AND SPECIFICATIONS.

TAGGED NOTES :

1. REMOVE EXISTING UNDERGROUND ELECTRICAL CONNECTIONS TO SITE LIGHT POLE AS SHOWN TO ACCOMMODATE BUILDING ADDITION, ROUTE NEW ELECTRICAL FEED FOR SITE LIGHT POLE AS REQUIRED AND RECONNECT TO EXISTING CIRCUIT.
2. RECONNECT EXISTING FIRE ALARM CONNECTIONS FOR FIRE SUPPRESSION SYSTEM VAULT AT NEW LOCATION INDICATED. FIELD VERIFY EXACT CONDITIONS PRIOR TO CONSTRUCTION.

Notice
The Architect/Engineer does not define the scope of individual trades, subcontractors, material suppliers, or vendors. Any sheet numbering system used which identifies disciplines is solely for the Architect/Engineer's convenience, and is not intended to define a subcontractor's scope of work. Information regarding individual trades, subcontractors, material suppliers, and vendors may be detailed, described and indicated at different locations throughout these documents. No consideration will be given to requests for change orders for failure to obtain and review the complete set of drawings and specifications when preparing bids, prices, and quotations.



CMTA
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Prospect, Kentucky 40059
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www.cmta.com

SHEET NUMBER

ELECTRICAL SITE PLAN

UE100

DATE

APRIL 3, 2024

OWNER

NORTH HARRISON
COMMUNITY SCHOOLS
1115 W WHISKEY RUN RD. NW
RAMSEY, IN 47166

PROJECT TITLE

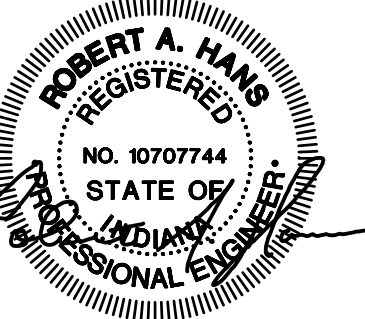
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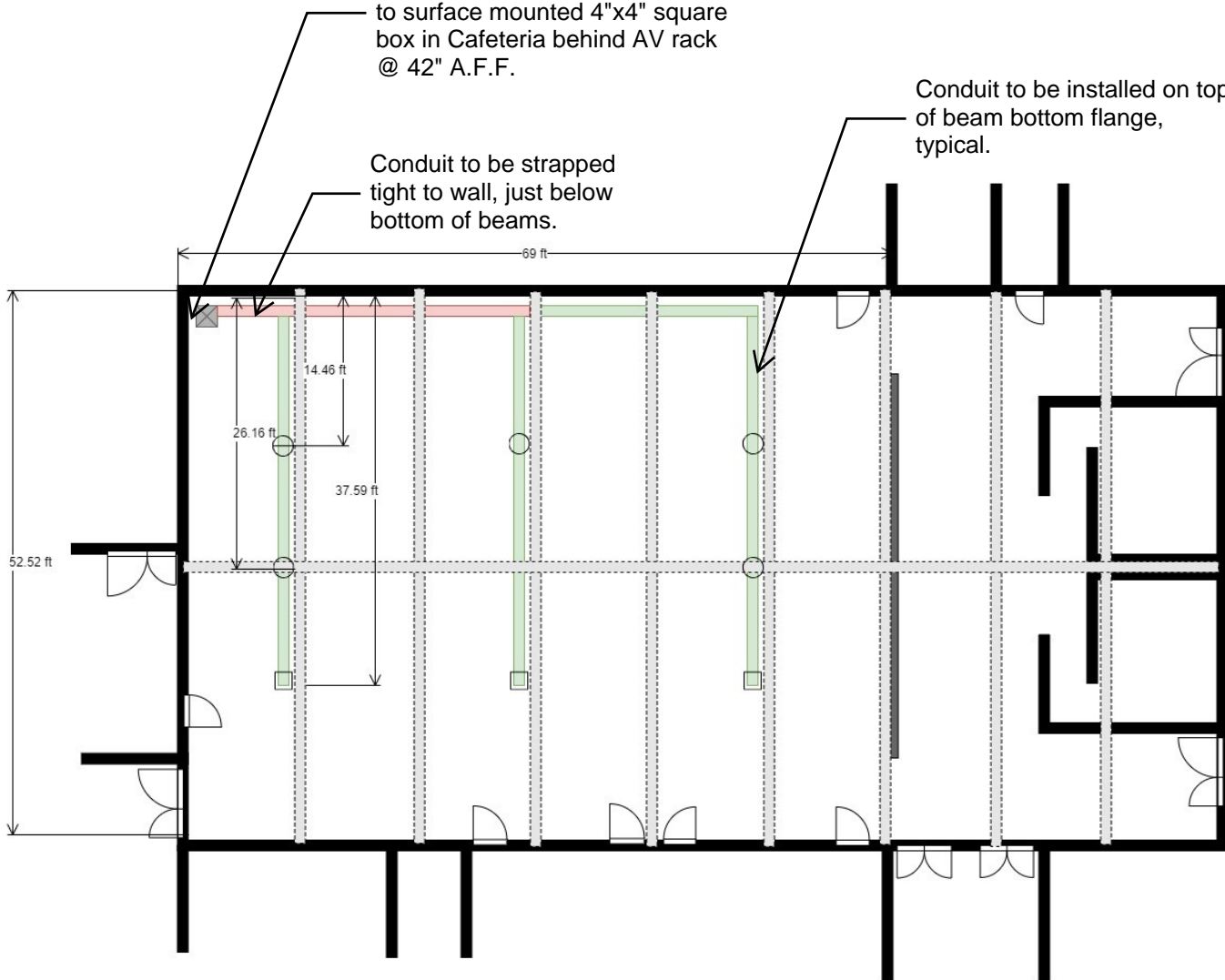
04-03-2024
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Extend 1" conduit through CMU wall into Mechanical room; run exposed down wall and poke thru to surface mounted 4"x4" square box in Cafeteria behind AV rack @ 42" A.F.F.

Conduit to be strapped tight to wall, just below bottom of beams.

Conduit to be installed on top of beam bottom flange, typical.



Notes:	
<ul style="list-style-type: none"> - Margin of error in conduit opening placement between 2-3" - All conduit should be secured to the structure prior to audio system installation. - On T-joints, position the branching opening towards the floor. 	
Client	
North Harrison Elementary School	
Project	
North Harrison Elementary School	
Legends	
	AV Rack
	1" Conduit
	1/2" Conduit
	1/2" Conduit T-joint
	1/2" Conduit cable gland
Design: Cafeteria - Audio	
Drawn By: Murphy Garness	
Checked By:	
Created On: 04-23-2024	
Revision:	

Cafeteria 133 Sound System Plan
No Scale

T101