HCPS WALK-IN FREEZER REPLACEMENT

HENDERSON COUNTY PUBLIC SCHOOL DISTRICT

OWNER REPRESENTATIVES

MARTIN BALLARD HENDERSON COUNTY PUBLIC SCHOOLS

KENT PARENT HENDERSON COUNTY PUBLIC SCHOOLS

ROBERT ROLFE CHILD NUTRITION DIRECTOR HENDERSON COUNTY PUBLIC SCHOOLS

ARCHITECT

MARK LUSK ARCHITECTURE PLLC 128 WOODBURN DRIVE SWANNANOA, NC 28778 828.808.9757

ENGINEER

TILDEN WHITE AND ASSOCIATES PLLC 58¹/₂ N. LEXINGTON AVENUE ASHEVILLE, NC 28801 828-301-6467

	LIST OF DRAWINGS
T101	COVER SHEET
	ARCHITECTURAL
A201 A301	DEMOLITION AND FREEZER FLOOR PLANS DETAILS
	ELECTRICAL
E1 E2	ELECTRICAL NOTES & SCHEDULES ELECTRICAL PLANS

MARK LUSK ARCHITECTURE PLLC 120 WEDGEWOOD DR SWANNANOA, NC 28778 828.808.9757 MLARCHITECTURE@CHARTER.NET



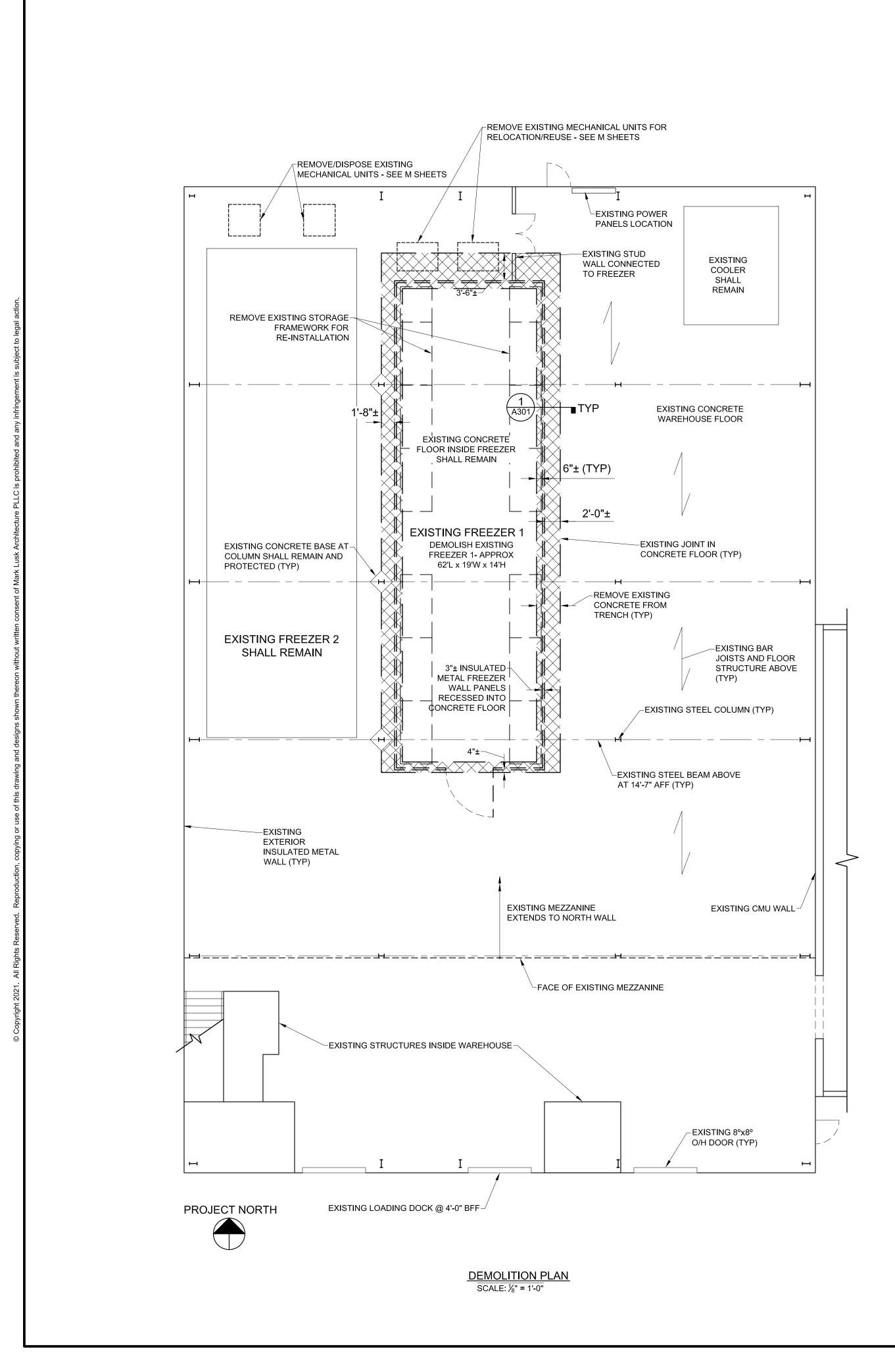


HCPS WALK-IN FREEZER REPLACEMENT

Project Number: 21008 Checked: _____ Drawn: <u>A. Rognas</u> Date: 5/25/21 Revisions:_

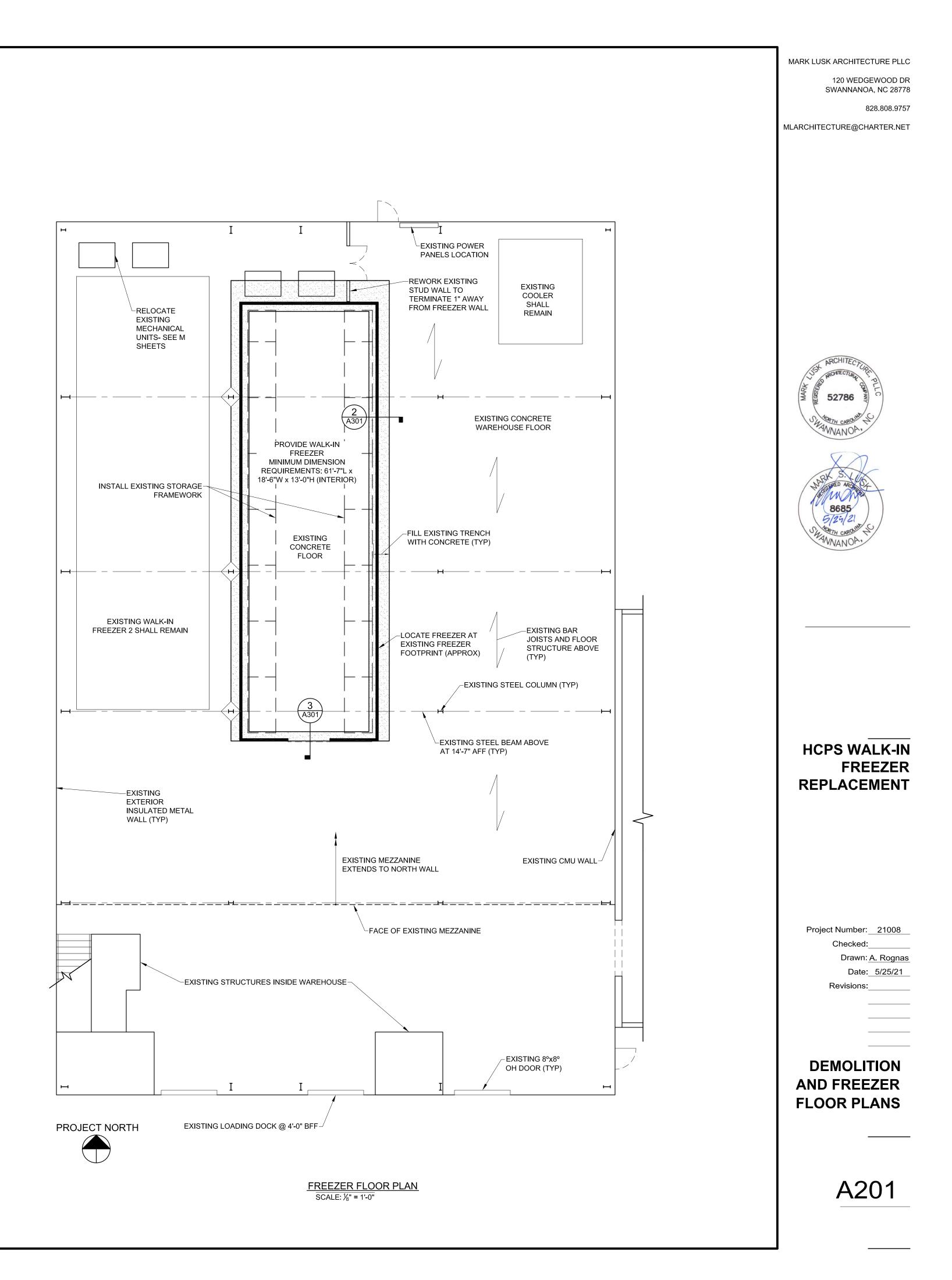


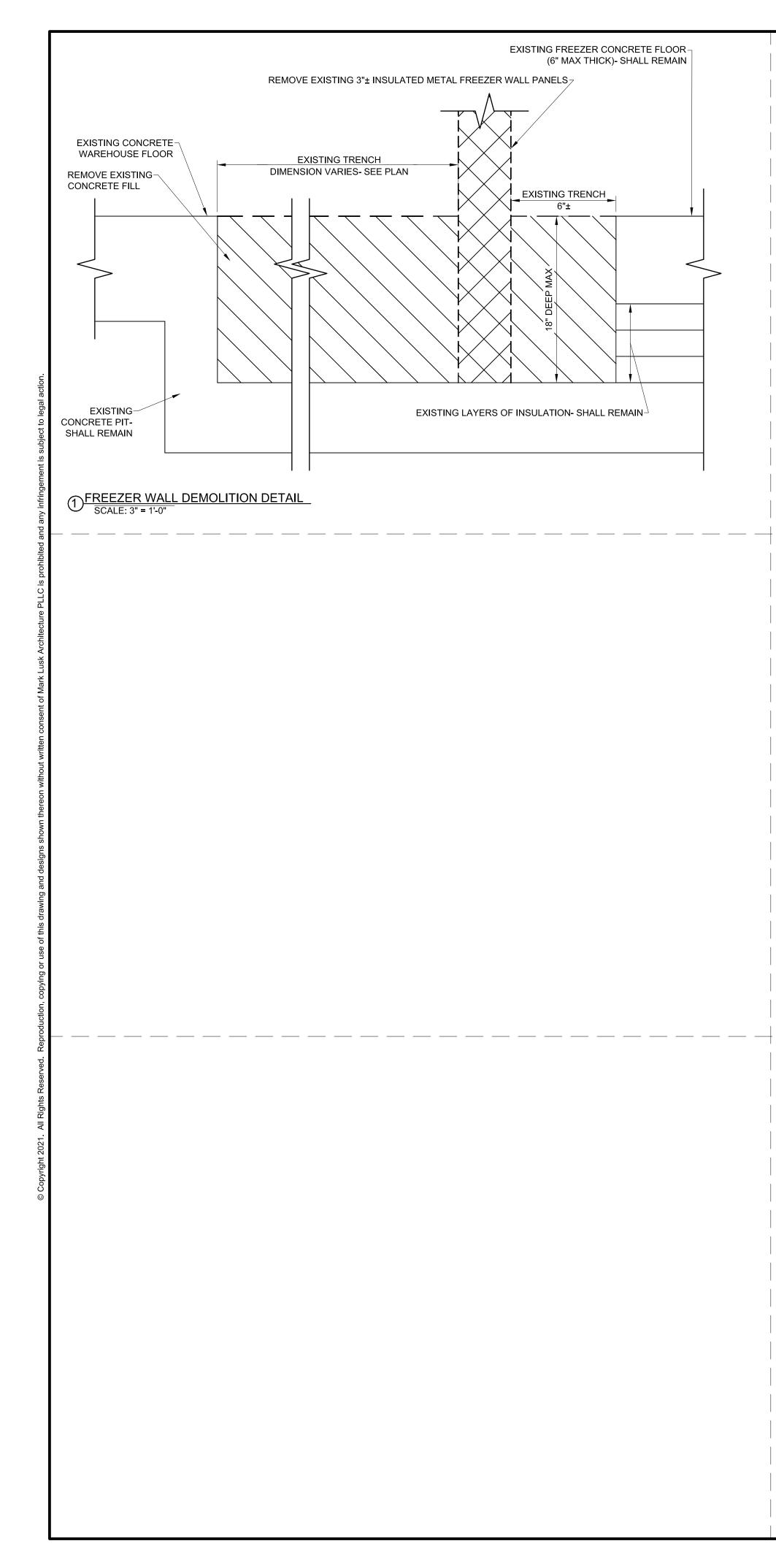
T101

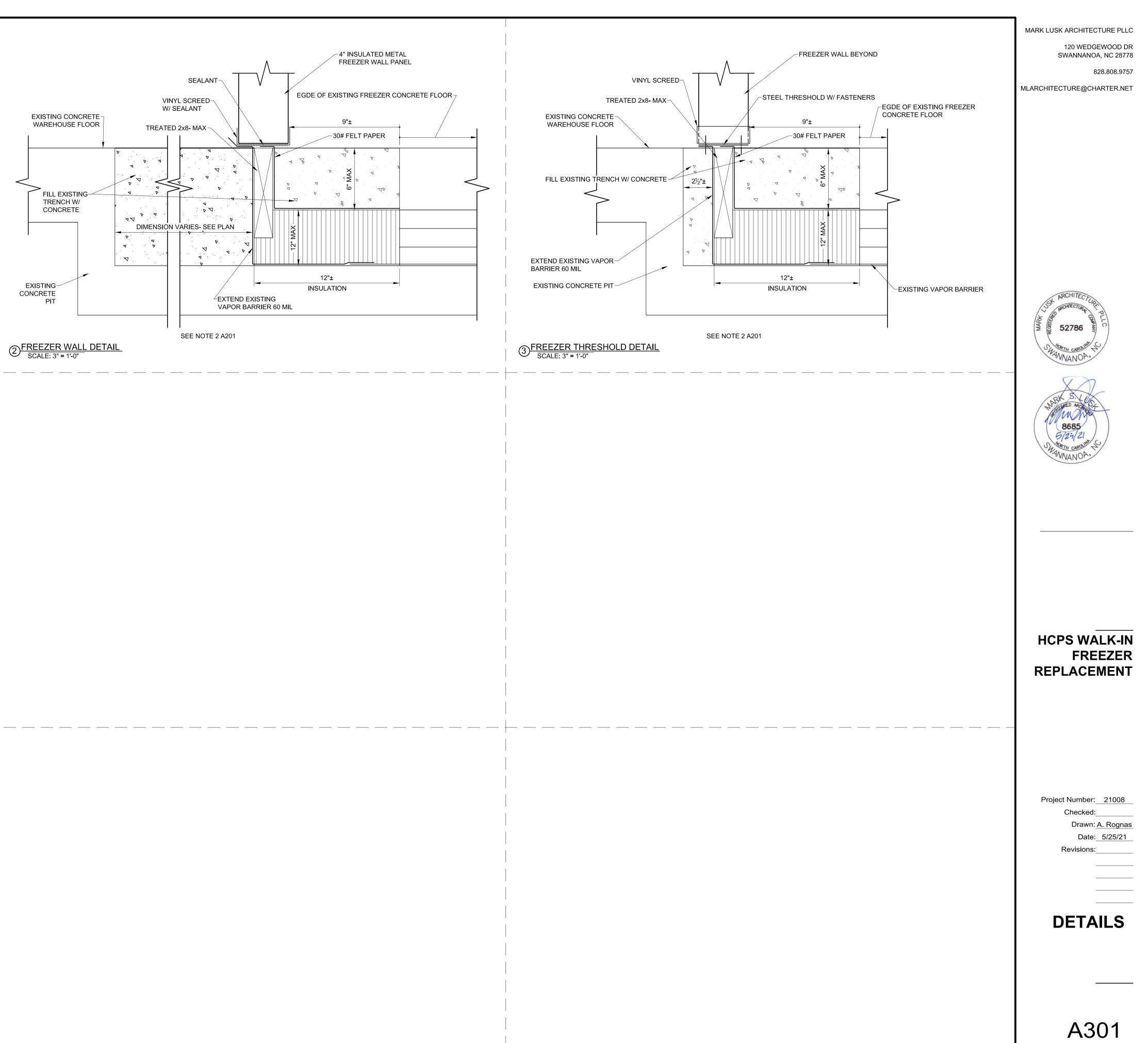


NOTES

1. CONCRETE SHALL BE 4000# PSI AT 28 DAYS. 2. FLOOR INSULATION SHALL BE EQUAL TO R-MAX THERMASHEATH-3 POLYISO INSULATION FOAM CORE BONDED TO REINFORCED ALUMINUM FOIL FACERS W/ CLEAR COATING







	ELE	ECTRI
SYMBOL		
J		- JUNCTION
	1–2	- HOMERUN
\$		- SINGLE PO
\$ ^D		- DIMMER SV
\$ ³		- THREE-WA
\$\$		 INDICATES SWITCHING
\bigcirc		- 115 OR 2
C		– FUSED OR
\$ ^M		– 2–POLE O
O_{S}		- WALL MOU SWITCH WS
OS		- CEILING M RCMS-PS1 MANUFACT
^{xxx} Ф		STANDARD GROUND F. COOLER – DUPLEX "W MOUNTED BACKSIDE BARS, "TR'
₽		– TWO STANI COVER PLA
₽		- STANDARD RFB2 FLOC
▼		TELEPHONE – CORD FRO BACKBOARI A 4" SQ. OUTLET BC
TV		CABLE TV — WITH PULL ABOVE BAO SHALL BE COVERPLAT
Ť		- GROUNDING
\bigcirc		— SPECIAL P

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ICAL SYMBOL LEGEND

DESCRIPTION

BOX PER N.E.C.

- I PANEL DESIGNATION AND CIRCUIT NUMBER
- POLE SWITCH 20A 120/277V MOUNT 46" A.F.F. TO BOTTOM SWITCH
- VAY SWITCH 20A 120/277V MOUNT 46" A.F.F. TO BOTTOM
- SWITCHES ARE TO PROVIDE MULTIPLE LIGHT LEVELS (INBOARD, OUTBOARD G OF LAMPS)
- 277 VOLT MOTOR AS NOTED ON PLANS
- OR NON-FUSIBLE HEAVY DUTY DISCONNECT SWITCH BY DIVISION 16 OR 3-POLE MANUAL MOTOR STARTER. PROVIDE WITH OVERLOAD PROTECTION. DUNTED OCCUPANCY SENSOR, SOUND AND MOTION ACTIVATED - SENSOR WSX-PDT (WSX-PDT-2P FOR TOILET ROOMS)
- MOUNTED OCCUPANCY SENSOR WITH DUAL STAGE ILLUMINATION NLIGHT S150–PDT–10–AR–G2 – VERIFY EXACT WIRING REQUIREMENTS WITH CTURERS CUT SHEETS BEFORE BEGINNING ANY WORK.
- D 20A OUTLET NEMA 5–20R DUPLEX. MOUNT 16" A.F.F. "GFI" DENOTES FAULT TYPE, NON-FEED THRU, "EWC" DENOTES OUTLET FOR ELECTRIC WATER – COORDINATE LOCATION WITH PLUMBING CONTRACTOR – NEMA 5–20R "WP" DENOTES WEATHERPROOF IN USE NEMA 5–20R DUPLEX, "ACT" DENOTES ABOVE COUNTER TOP OR BACKSPLASH, "BB" DENOTES MOUNTED ON THE FOF THE BAR JUST BENEATH THE BARTOP TYPICAL FOR RESTAURANTS AND R" DENOTES TAMPER RESISTANT. "USB" DENOTES LEGRAND TM826USB.
- NDARD 20A OUTLETS IN A 2-GANG BOX NEMA 5-20R DUPLEX COMMON PLATE - MOUNT 16" A.F.F. TO BOTTOM OF DEVICE.
- D 20A OUTLET IN FLOOR BOX NEMA 5—20R DUPLEX LEGRAND WIREMOLD OOR BOX.
- NE/DATA OUTLET MTD. 16" AFF TO BOTTOM. PROVIDE 1" CONDUIT WITH PULL ROM OUTLET TO COMMUNICATION BACKBOARD. STUB OUT 6" ABOVE RD. PROVIDE NYLON BUSHING ON END OF CONDUIT. OUTLET BOX SHALL BE . BOX WITH SINGLE GANG PLASTER RING. PROVIDE BLANK COVERPLATE ON BOX.
- V OUTLET MTD. 16" AFF TO BOTTOM OR AS INDICATED. PROVIDE 1" CONDUIT LL CORD FROM OUTLET TO COMMUNICATION BACKBOARD. STUB OUT 6" BACKBOARD. PROVIDE NYLON BUSHING ON END OF CONDUIT. OUTLET BOX E A 4" SQ. BOX WITH SINGLE GANG PLASTER RING. PROVIDE BLANK ATE ON OUTLET BOX.
- NG FOR SERVICE OR SEPARATELY DERIVED SYSTEM, PER N.E.C.

POWER OUTLET.

WIRING DEVICE NOTES

1. Switches shall be Hubbell CS115 or equivalent and receptacles shall be Hubbell CR20 or equivalent. Devices shall be white or as directed by architect.

- Switches shall be as follows: single pole 20 amp
 3 way 20 amp
 4 way 20 amp
- motor starter switch3. Duplex receptacle shall be as follows:
 - 20 amp duplex-GFCI 20 amp duplex-GFCI 20 amp duplex-Weather GFI
- PS5362I 2095IL 2095TRWRI

CSB20AC1-I

CSB20AC3-I

CSB20AC4-I

Square D type "K" series

Note: Duplex receptacles have nylon face and side wire type. Receptacles shall have brass contacts, brass terminal screws and green ground wire screw. GFCI receptacle shall be included with a trip indicator light.

- 4. Coverplates shall be oversized stainless steel SSJX or as directed by architect.
- 5. Outlet boxes shall not be mounted back-to-back.
- Receptacles shall be 20 amp unless 15 amp is required by equipment served.
- Weatherproof in use covers shall be clear equal to Leviton. For horizontal mount covers use part no. "5997-CL". For vertical mount covers use part no. "5977-CL".
- 8. All outlets (including telephone and data) shall have cover plates.

2018 APPENDIX B BUILDING CODE SUMMARY: ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compli	ance:		
Energy Code:	[X] Prescriptive [] Performance	
ASHRAE 90.1:	[X] Prescriptive [] Performance	
Lighting schedule	(each fixture type)		
lamp type r	equired in fixture	(see fixture sche	dule)
number of	lamps in fixture	(see fixture sche	dule)
ballast type	e used in the fixture	(see fixture sche	dule)
number of	ballasts in fixture	(see fixture sche	edule)
total wattag	ge per fixture	(see fixture sche	edule)
total interio	r wattage (whole space allowa	able) NA	
total exterio	or wattage specified vs. allowe	ed ETR	
Additional Prescr	iptive Compliance:		
C406.2 :More Effici	ent Mechanical Equipment	[X] Prescriptive	[] Performance
C406.3 :Reduced L	ighting Power Density	[] Prescriptive	[] Performance
C406.4 :Energy Re	covery Ventilation System	[] Prescriptive	[] Performance
C406.5 :Higher Effi	ciency Service Water Heating	[] Prescriptive	[] Performance
C406.6 :On-Site Su	upply of Renewable Energy	[] Prescriptive	[] Performance
	Daylighting Control Systems	[] Prescriptive	[] Performance

BRANCH CIRCUIT CONDUCTOR SIZING TABLE

For circuits with branc	h circuit protection rated 2 according to	0 amps or less, copper co the following:	nductors shall be sized
voltage	distance (ft)	home run (AWG)	remainder (AWG)
	0 - 50	12	12
120	50 - 90	10	12
120	90 - 140	8	10
	140 +	6	10
	0 - 95	12	12
208	95 - 160	10	12
200	160 - 250	8	10
	250 +	6	10

	ELECTRICA	
1.	The intent of these drawings and specifications	
2.	complete, fully adjusted, and operational syster Provide five sets of electrical equipment submit	
3.	GC and owner to review and approve prior to p The contractor shall provide all supervision, lab	•
5.	any and all other items necessary to complete t	he system. All work shall be performed in
4.	a neat and workmanlike manner in accordance All work under this section shall be accomplished	-
	codes and the National Electric Code. Coordin	
5.	requirements. The contractor shall obtain all necessary appro	val, obtain all permits and pay all fees
~	required for the installation of their work.	
6.	The drawings are diagrammatic only. The cont to accommodate actual field conditions.	ractor may need to make neid adjustments
7.	Devices located in rated walls shall have suffici proper installation and firestopping.	ent separation from other devices to allow
8.	The contractor shall refer to the architectural ar construction of the building, for floors and ceilin beams, etc.	
9.	Manufacturer's listed are to establish a standard selection to these manufacturers. Any substitut and engineer.	
10.	Contractor shall verify all listed model numbers	with manufacturers to insure proper
11.	application of equipment. Equipment and materials shall be handled, stor	ed and protected in accordance with the
	manufacturer's recommendations. The contractor shall perform any and all trench	
	the installation of this work. The contractor shall furnish all necessary scaffo	
14	required for the completion of this work. All work shall be coordinated with the general of	ontractor and other trades involved in the
	construction project. All work shall be carefully architectural, structural, mechanical, plumbing a	laid out in advance to coordinate
15.	The electrical contractor shall visit the site befo	re submitting his bid so as to be thoroughly
	familiar with the job conditions and/or peculiarit anything which could have been anticipated fro	
	Equipment shall be installed in accordance with Provide grounding for all conduits, motor frame	manufacturer's written instructions.
	neutral, etc. and as required by NEC as minimu	•
18.	25 OHMS. A green insulated copper ground wire, sized pe	r NEC, shall be installed in all racewavs.
	electric metallic tubing used for feeders, branch	-
19.	noted on the drawings. All fixtures shown on the plans shall be furnishe	
	accessories, lamps and tubes. Fixtures shall b Re-use existing fixtures that are in good conditi	
0.5	supplied, match existing fixtures.	
20.	Coordinate with sprinkler contractor for all required. etc.). All alarm wiring by provided by EC. Coordinate contractor for all required by EC.	
21	requirements.	
	Provide required telephone wiring for elevator e contractor for specific requirements.	
22.	All wiring shall be run in conduit. The minimum conduit shall be electrical metallic tubing or type	
	where allowed by NEC and not subject to physical	cal damage, moisture or dampness.
	Connection to equipment shall be flexible metal use liquid tight flexible metal conduit. Indoor bo	
	except in damp or wet locations use NEMA type conduit is used below the slab, provide a minim	e 4, stainless steel. Where nonmetallic
	into the building space or at any exterior walls,	inside or outside framed walls, exterior
	landscape poles, or equipment. Use raceway f suitable for use and location. Run concealed ra	
	shortest practical distance considering the type Raceways shall run parallel to or at right angles	of building construction and obstructions.
	and follow the surface contours as much as pra	ctical. Provide grounding connections for
	raceway, boxes, and components as indicated connections and terminals, including screws an	
	manufacturer's published torque-tightening value	es for equipment connectors. Where
	manufacturer's torquing requirements are not ir according to tightening torques specified in UL	standard 486A.
23.	All underground raceways shall be identified by directly above the raceway at 6" below finished	
	bright-colored, continuous, magnetic strip, print	ed plastic tape compounded for direct
	burial not less than 6" wide and 4mils thick. Pri service it is marking. Conduits exposed to diffe	-
24	required by NEC Article 300.7A. Color for devices shall be coordinated with the	general contractor
	Receptacles shall comply with UL Standard 498	3, "electrical attachment plugs and
26.	receptacles," heavy-duty grade 20 AMP rated e Ground-fault circuit interrupter (GFI) receptacle	
	"Ground fault circuit interrupters," with integral I Single pole and three/four-way toggle type snap	NEMA 5-20R duplex receptacle.
	AC., rated, quite-type A.C. switches. NRTL list	ed and labeled as complying with UL
28.	Standard 20 "general use snap switches," and wall plates: single and combination types shall	
	with corresponding wiring devices. Conductors shall be color coded in accordance	
_ປ.	Phase 208/120 Volts	480/277 Volts
		Brown
	A Black B Red	Orange
	A Black B Red C Blue	Orange Yellow
	ABlackBRedCBlueNeutralWhiteGroundGreen	Orange Yellow Gray Green
30.	ABlackBRedCBlueNeutralWhiteGroundGreenElectrical equipment shall be identified with labe	Orange Yellow Gray Green
	ABlackBRedCBlueNeutralWhiteGroundGreenElectrical equipment shall be identified with labemajor unit of electrical equipment.Panelboards/loadcenters shall be type, rating, a	Orange Yellow Gray Green els of engraved plastic-laminate on each and features as indicated on the schedules.
	ABlackBRedCBlueNeutralWhiteGroundGreenElectrical equipment shall be identified with labemajor unit of electrical equipment.Panelboards/loadcenters shall be type, rating, aEnclosures shall be NEMA type 1, flush or surfabe code gauge, galvanized steel.	Orange Yellow Gray Green els of engraved plastic-laminate on each and features as indicated on the schedules. ace mounted as indicated. Cabinet shall be sheet steel with gray lacquer finish with
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	A Black B Red C Blue Neutral White Ground Green Electrical equipment shall be identified with labe major unit of electrical equipment. Panelboards/loadcenters shall be type, rating, a Enclosures shall be NEMA type 1, flush or surfation be code gauge, galvanized steel. Fronts shall be hinged locking door. Ground and neutral bus s or aluminum. Main and neutral lugs shall be plute be adequate for feeder and branch-circuit equiption	Orange Yellow Gray Green els of engraved plastic-laminate on each and features as indicated on the schedules. ace mounted as indicated. Cabinet shall be sheet steel with gray lacquer finish with hall be 100% rated. Bus shall be copper ug-on type. Equipment ground bus shall oment ground conductors bonded to box.
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5-25-2021

MARK LUSK ARCHITECTURE PLLC

MLARCHITECTURE@CHARTER.NET

120 WEDGEWOOD DR SWANNANOA, NC 28778

828.808.9757

HCPS WALK-IN FREEZER REPLACEMENT

Project Number: 21008 Checked: _____ Drawn: <u>A. Rognas</u> Date: 5/25/21 Revisions:

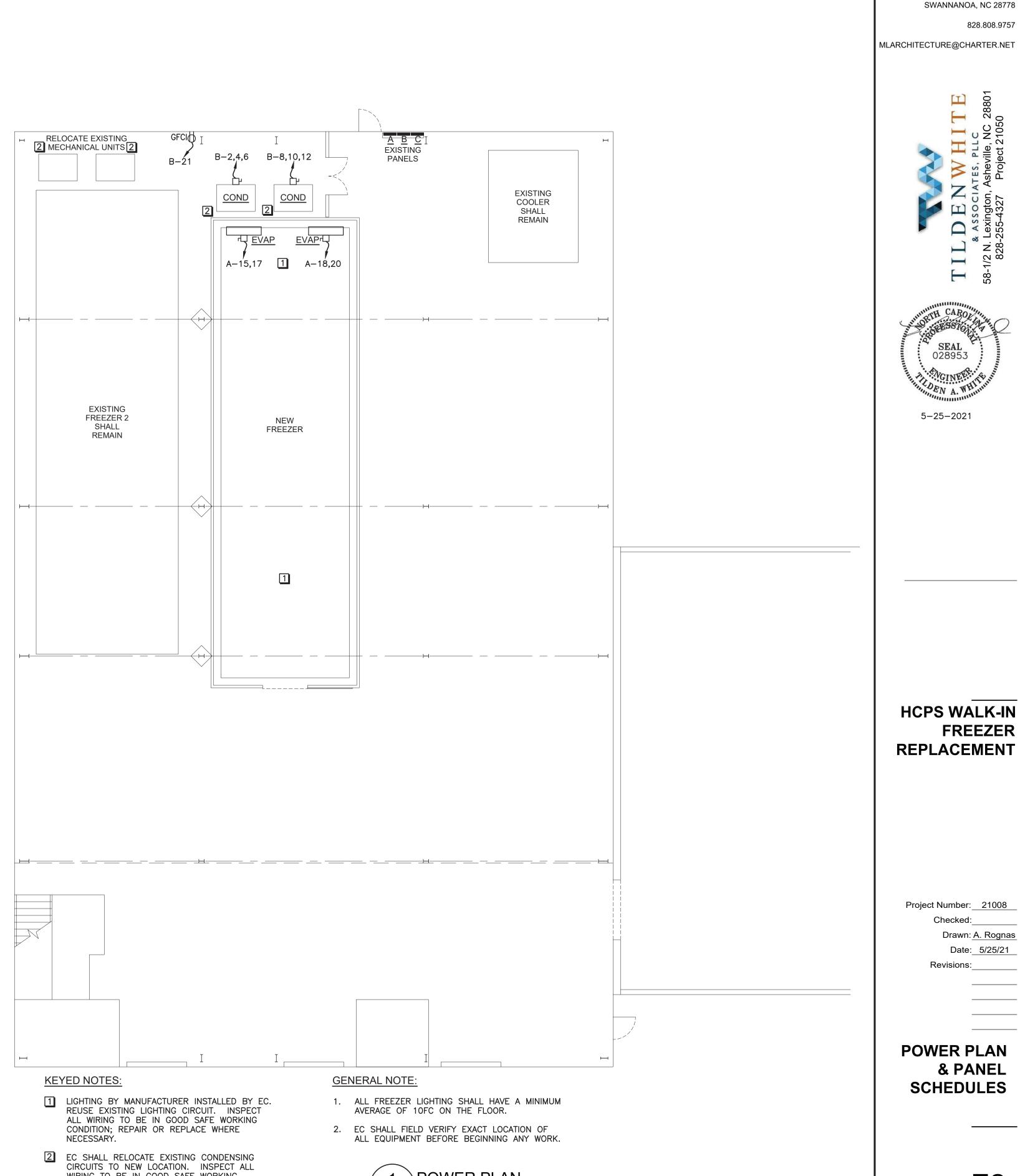
ELECTRICAL NOTES & SCHEDULES

E1

EXISTING LOCATION: MANUFACT.: EXISTING MODEL: EXISTING
 VOLTS
 Ph
 W

 08
 120
 3
 4
 MOUNTING: EXISTING 208 120 3 CONN VA LOAD Ph N BKR # G С BKR Ph 0 1 EX-DOCK REC - --40 125 -0 3 3P 3P -- ---0 5 ------_ 0 7 EX-LIGHTS 20 125 -- --0 9 EX-FREEZALARM - -20 3P --0 11 EX-FREEZER LTS 20 ---0 13 EX-REC 20 20 -- ---0 15 EX-EXHAUST FAN -20 2P ----0 17 2P 30 --- ---0 19 EX-EXHAUST FAN - -20 3P ---12 180 21 SERVICE REC 12 12 12 20 --0 23 20 -0 25 0 27 0 29 SUBTOTAL AMPS Ph A 200 AMPS MAIN BREAKER: 0 200 AMPS (MIN) 2 SUBTOTAL AMPS Ph B MAIN LUGS: 0 SUBTOTAL AMPS Ph C BUS AMPACITY: 200 AMPS (MIN) CONNECTED DF DEMAND LOAD LIGHTING 0 125 A/C 0 100 0 HEATING 0 100 NON-VENT MOTORS 57600 100 57600 VENTILATION 0 100 0 KITCHEN 0 100 0 RECEPTACLES 180 100 180 NOTES MISCELLANEOUS 1. PANEL SHA 0 100 0 FUTURE 0 100 2. PANEL BUS 3. PROVIDE A TOTAL 57780 57780 (VA) 4. *BKR* INDIC 160 160 (AMPS) 5. ALL BRANC 6. *BKR INDIC LOCATION: EXISTING MANUFACT.: EXISTING _____ MODEL: EXISTING MOUNTING: EXISTING VOLTS Ph W 208 120 3 4 CONN С VA # LOAD Ph N G C BKR A BKR Ph R 0 1 EX-LIGHTS 20 20 - - - ---EX-LIGHTS 20 20 0 3 - | - | ---0 5 EX-REC 20 20 - | - | ---0 7 EX-FURNACE 20 20 - | - | ---20 0 9 SPARE - 20 - - --SPARE 0 | 11 | - 15 20 - - --0 13 20 EX-REC 20 - | - | ---4080 | 15 | NEW EVAP 8 - 10 40 20 1 -8 - -4080 17 2P 40 --0 19 2P 20 - - --0 21 EX-GEN HEAT - - -20 20 --0 23 EX-BATT CHARGE - - -20 20 --0 25 EX-REC 20 2P - - - ---0 27 EX-WATER HEATER - - - -30 20 --- - - - 2P 0 29 20 --SUBTOTAL AMPS Ph A MAIN BREAKER: 200 AMPS 0 200 AMPS (MIN) 34 SUBTOTAL AMPS Ph B MAIN LUGS: 34 SUBTOTAL AMPS Ph C BUS AMPACITY: 200 AMPS (MIN) CONNECTED DF DEMAND LOAD LIGHTING 0 125 A/C 0 100 HEATING 0 100 NON-VENT MOTORS 16320 100 16320 VENTILATION 0 100 KITCHEN 0 100 RECEPTACLES 0 100 NOTES MISCELLANEOUS 1. PANEL SHA 0 100 FUTURE 0 100 2. PANEL BUS 3. PROVIDE A 16320 TOTAL 16320 4. *BKR* INDICATES HACR TYPE CIRCUIT BREAKER. (VA) (AMPS) 45 45 5. ALL BRANCH CIRCUITS SHALL BE FED W/ COPPER CONDUCTORS. 6. *BKR INDICATES AFCI TYPE CIRCUIT BREAKER.

FULLY RATED N G C LOAD M A - - - 4 9600 - - - 6 9600 - - - 10 9600 - - 12 9600 - - 12 9600 - - 12 9600 - - - 12 9600 - - - 12 9600 - - - 12 9600 - - - 12 9600 - - - 20 0 - - - 20 0 - - - 20 0 - - - 20 0 - - - 30 0 N M M 19200 10 10 VAph A 19200 19200 10 10 LLBE PROVIDED WITH A FULL NEUTRAL </th <th></th> <th></th> <th></th> <th>PANEL: FED FROM:</th> <th>ι</th> <th>B JTLITY</th>				PANEL: FED FROM:	ι	B JTLITY
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WIRING TO BE IN GOOD SAFE WORKING CONDITION; REPAIR OR REPLACE WHERE NECESSARY. FIELD VERIFY THAT ALL CODE REQUIRED CLEARANCES ARE MAINTAINED.





E2

MARK LUSK ARCHITECTURE PLLC

120 WEDGEWOOD DR