

Collins Architectural Group, p.s.
950 12th Avenue, Suite 200
Longview, WA 98632

Addendum No. 2

Page No. 1 of 1

Date: Dec. 12, 2022

Project: Longview School District
Bus Garage Repair
Project Number 2022-28
Longview, WA

Notice to Bidding Contractor:

The following changes in the Contract Documents, including the Drawings and Specifications, constitute this Addendum. All changes included in Addenda shall become a part of the Contract Documents for this Project. Any changes herein offset only the specific Drawings or Notes on Drawings or words or paragraphs in Specifications referenced to and the balance of the Drawings shall remain in full force.

GENERAL INFORMATION / CLARIFICATION:

Item #	Location/Section:	Description
2.01	RFI A201	Keynote numbers do not correlate, corrected misaligned Keynotes see revised Floor Plan 2/ A201

DRAWINGS:

Item #:	Sheet/Detail:	Description:
2.02	Electrical E201	Updated keynote for gate circuit
2.03	Electrical E501	Load Calculations Provided

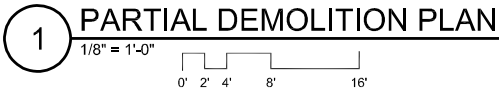
END OF Addendum No. 02

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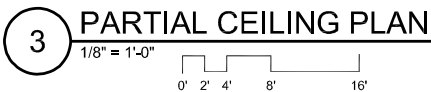
**BUS GARAGE BUILDING REPAIR
LONGVIEW SCHOOL DISTRICT**
2080 38th AVE., LONGVIEW, WA 98632

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A201

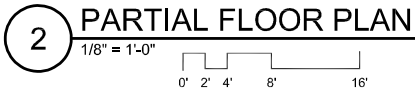


1. REMOVE 2x6 WOOD STUD PARTITION WALLS
2. REMOVE OVERHEAD DOOR AND TRACK SYSTEM
3. REMOVE HOLLOW METAL DOOR AND FRAME
4. REMOVE OVERHEAD TRACK SYSTEM
5. EXISTING 8'-0" HIGH CHAIN LINK FENCE AND GATES TO REMAIN
6. REMOVE ALUMINUM WINDOWS
7. REMOVE EXISTING GLU-LAM BEAMS, EXISTING BEAM BRACKETS EMBEDDED IN CONC. COLUMNS TO BE RE-USED.
8. REMOVE TEMPORARY ENCLOSURE
9. REMOVE DAMAGED STEEL GIRTS

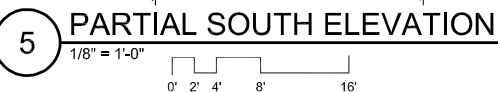
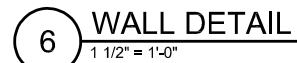
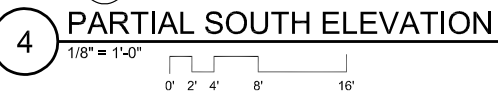


1. EXISTING 3X6 WOOD T&G ROOF
2. NEW 3X6 WOOD T&G CEILING/ ROOF
3. NEW CEILING MOUNTED LIGHT FIXTURES, SEE ELECTRICAL
4. NEW OVERHEAD SECTIONAL DOOR AND TRACK SYSTEM
5. NEW GLUE LAMINATED BEAM, SEE STRUCTURAL
6. EXISTING GLUE LAMINATED BEAMS TO REMAIN

1. REFLECTED CEILING PLANS INDICATE LOCATIONS OF PRIMARY STRUCTURAL, MECHANICAL, AND ELECTRICAL COMPONENTS AND DOES NOT SHOW ALL COMPONENTS. REFER TO STRUCTURAL, MECHANICAL, AND ELECTRICAL DOCUMENTS FOR ADDITIONAL INFORMATION.

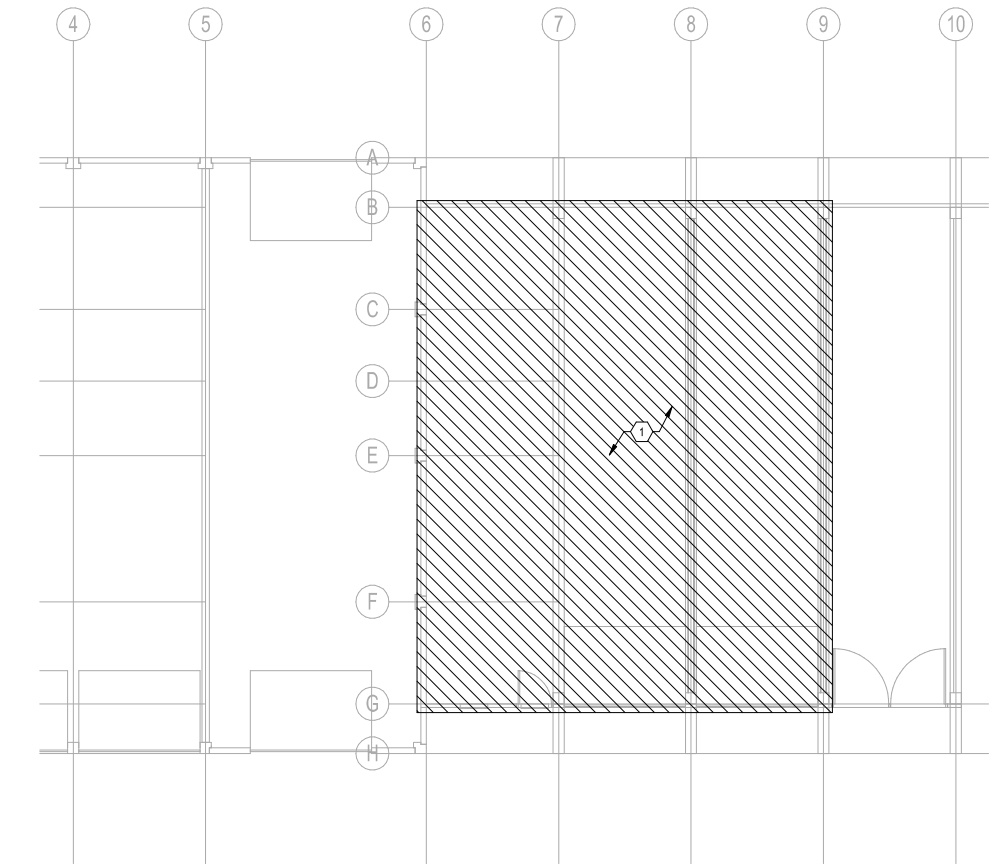


- 1 2'0"Wx3'0"H WINDOW - SEE DETAILS 5A, 5B / A202

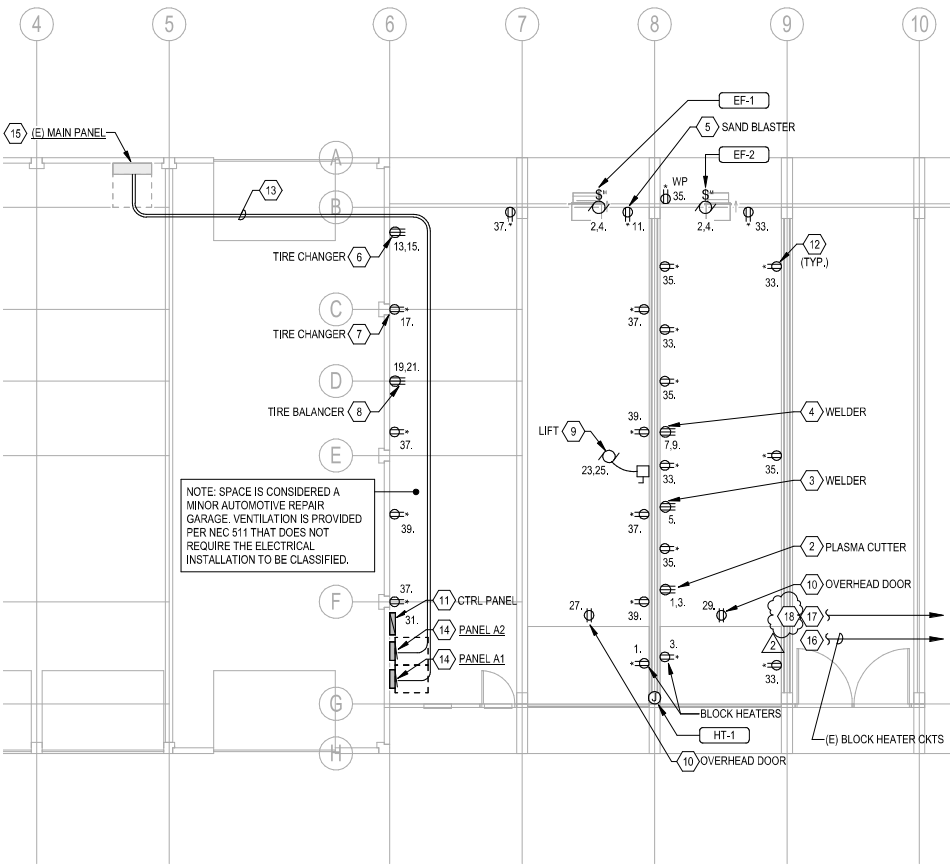


1. 4" DIA PVC DOWNSPOUT (PAINT) WITH SPLASH PAD
2. NEW SIDING, PAINT
3. LOUVER - SEE MECHANICAL DRAWINGS
4. ~~TIE-IN~~ AND OVERLAP NEW SIDING TO EXIST SIDING





2 LEVEL 1 DEMO PLAN - POWER
SCALE: 1/8" = 1'-0"



1 LEVEL 1 PLAN - POWER
SCALE: 1/8" = 1'-0"

MECHANICAL & PLUMBING EQUIPMENT CONNECTION SCHEDULE											
EQUIPMENT TAG	EQUIPMENT DESCRIPTION	LOCATION	VOLTAGE	PHASE	LOAD	FLA	MCA	MOCP	POLES	FEEDER	NOTES
EF-1	EXHAUST FAN	REPAIR BAY	240 V	1	0.7 KVA	2.9 A	3.6 A	15 A	2	202	1
EF-2	EXHAUST FAN	PARKING BAY	240 V	1	0.7 KVA	2.9 A	3.6 A	15 A	2	202	1
HT-1	HEAT TRACE	REPAIR BAY	120 V	1	0.2 KVA	1.7 A	2.1 A	15 A	1	201N	
GENERAL MECHANICAL SCHEDULE NOTES A. LOADS FOR EQUIPMENT LISTED ABOVE ARE BASIS OF DESIGN LOADS ONLY. CONTRACTOR IS RESPONSIBLE FOR COORDINATING EXACT REQUIREMENTS WITH APPROVED SUBMITTALS FOR DIVISION 22 AND 23. B. PROVIDE DISCONNECTING MEANS IF REQUIRED PER NEC FOR ALL MECHANICAL EQUIPMENT (MAY NOT BE SHOWN ON PLANS). PROVIDE FUSED DISCONNECTS FOR MOTOR OVERLOAD PROTECTION PER NEC 430.32, UNLESS MOTOR HAS INTEGRAL OVERLOAD PROTECTION. C. FEEDER REFERS TO FEEDER SCHEDULE ON SHEET E501..											
MECHANICAL SCHEDULE NOTES 1. LOCATE CONTROL SWITCH ADJACENT TO LIGHTING CONTROL SWITCH.											

GENERAL SHEET NOTES

- EXISTING CONDITIONS SHOWN ARE BASED ON AS-BUILT DRAWINGS AND FIELD OBSERVATION. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS THAT MAY AFFECT CONSTRUCTION.
- PROTECT ALL CIRCUITS AND WIRING THAT ARE TO REMAIN.
- PROVIDE ADDITIONAL WIRING AS NECESSARY FOR CONTINUITY OF CIRCUITS TO ANY EXISTING DEVICES TO REMAIN.
- REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.
- REMOVE ABANDONED WIRING TO SOURCE OF SUPPLY.
- EXTEND EXISTING INSTALLATIONS USING MATERIALS AND METHODS COMPATIBLE WITH EXISTING ELECTRICAL INSTALLATIONS.
- GRAY LINES INDICATE EXISTING TO REMAIN. BOLD LINES INDICATE NEW WORK.
- PROVIDE BRANCH CIRCUITS TO ALL EQUIPMENT AND DEVICES SHOWN FROM PANEL A1, UNLESS NOTED OTHERWISE.
- PROVIDE WEATHERPROOF LOCKABLE ENCLOSURE FOR ALL OUTDOOR DEVICES.

KEYNOTES

- DEMOLISH ALL (E) ELECTRICAL ITEMS IN SHADED AREA, INCLUDING LIGHTING, DEVICES, WIRING, CONDUITS, AND BOXES/ENCLOSURES.
- PROVIDE RECEPTACLE FOR 240V/1PH, 33A PLASMA CUTTER. VERIFY NEMA CONFIGURATION WITH OWNER PRIOR TO ORDERING. PROVIDE (4) #8 CU BRANCH CIRCUIT.
- PROVIDE RECEPTACLE FOR 120V/1PH, 25A WELDER. VERIFY NEMA CONFIGURATION WITH OWNER PRIOR TO ORDERING. PROVIDE (3) #10 CU BRANCH CIRCUIT.
- PROVIDE RECEPTACLE FOR 240V/1PH, 32A WELDER. VERIFY NEMA CONFIGURATION WITH OWNER PRIOR TO ORDERING. PROVIDE (4) #8 CU BRANCH CIRCUIT.
- PROVIDE RECEPTACLE FOR 120V/1PH, 16A SAND BLASTER CABINET. VERIFY NEMA CONFIGURATION WITH OWNER PRIOR TO ORDERING. PROVIDE (3) #12 CU BRANCH CIRCUIT.
- PROVIDE RECEPTACLE FOR 240V/1PH, 17A TIRE CHANGER. VERIFY NEMA CONFIGURATION WITH OWNER PRIOR TO ORDERING. PROVIDE (4) #10 CU BRANCH CIRCUIT.
- PROVIDE RECEPTACLE FOR 120V/1PH, 10A TIRE CHANGER. VERIFY NEMA CONFIGURATION WITH OWNER PRIOR TO ORDERING. PROVIDE (3) #12 CU BRANCH CIRCUIT.
- PROVIDE RECEPTACLE FOR 240V/1PH, 10A TIRE BALANCER. VERIFY NEMA CONFIGURATION WITH OWNER PRIOR TO ORDERING. PROVIDE (4) #12 CU BRANCH CIRCUIT.
- PROVIDE CONNECTION TO 240V/1PH, 20A VEHICLE LIFT. PROVIDE (4) #12 CU BRANCH CIRCUIT.
- PROVIDE GFCI RECEPTACLE AT CEILING FOR OVERHEAD DOOR MOTOR. 120V, 10A. PROVIDE (3) #12 CU BRANCH CIRCUIT.
- PROVIDE NEW LIGHTING/RECEPTACLE CONTROL PANEL TO CONTROL EXISTING BLOCK HEATER CIRCUITS. BOD. GREENGATE LIGHTKEEPER 16 (LK16). COORDINATE PROGRAMMING WITH OWNER.
- PROVIDE GFCI RECEPTACLE FOR GENERAL USE. MOUNT AT +48" TO TOP OF BOX. VERIFY LOCATION AND MOUNTING HEIGHT WITH OWNER IN FIELD.
- PROVIDE FEEDER TO NEW PANEL. COORDINATE ROUTING IN FIELD WITH EXISTING CONDITIONS.
- PROVIDE (N) PANEL PER ONE-LINE.
- PROVIDE (N) BREAKERS IN MAIN PANEL. PER ONE-LINE.
- RECONNECT TO (E) BLOCK HEATER CIRCUITS AT CEILING. ALL BLOCK HEATER CIRCUITS SHALL ROUTE THROUGH THE CONTROL PANEL PER KEYNOTE 11. CONTRACTOR SHALL FIELD COORDINATE EXACT QUANTITY OF BLOCK HEATER CIRCUITS TO BE RECONNECTED. (14) 120V/20A CIRCUITS ASSUMED FOR PRICING. SEE PANEL SCHEDULE.
- RECONNECT ALL (E) CIRCUITS FOR EQUIPMENT TO THE EAST OF BAY 3 TO PANEL A1. CONTRACTOR SHALL FIELD COORDINATE EXACT QUANTITY OF CIRCUITS TO BE RECONNECTED. ASSUME (3) 240V/20A CIRCUITS FOR PRICING.
- RECONNECT CIRCUIT FOR GATE TO PANEL A1. MATCH EXISTING WIRE AND BREAKER SIZE. VERIFY IN FIELD. GATE IS LOCATED AT FAR END OF BUS BAYS.

2	12-12-22	ADDENDUM-02
MARK	DATE	DESCRIPTION
 WINDSOR ENGINEERS Duluth, MN Vancouver, WA www.windsorengineers.com  MAINTENANCE AND TRANSPORTATION FACILITY BUS GARAGE BUILDING REPAIR LONGVIEW SCHOOL DISTRICT 2080 38th AVE., LONGVIEW, WA 98632		
CONST. DOCS. 10-27-2022		
LEVEL 1 PLAN - POWER PLANS		
22126		
SHEET NO.		
E201		

FEEDER SCHEDULE (CU)					
FEEDER AMPACITY	# OF SETS	PHASE CONDUCTORS	NEUTRAL CONDUCTOR	GROUND CONDUCTOR	RACEWAY
20	1	#12	#12	#12	1/2"
30	1	#10	#10	#10	3/4"
40	1	#8	#8	#10	3/4"
50	1	#6	#6	#10	1"
60	1	#4	#4	#10	1-1/4"
70	1	#4	#4	#8	1-1/4"
80	1	#3	#3	#8	1-1/4"
90	1	#2	#2	#8	1-1/2"
100	1	#1	#1	#8	1-1/2"
110	1	#1	#1	#6	1-1/2"
125	1	#1	#1	#6	1-1/2"
150	1	#1/0	#1/0	#6	2"
175	1	#2/0	#2/0	#6	2"
200	1	#3/0	#3/0	#6	2"
225	1	#4/0	#4/0	#4	2-1/2"
250	1	250 KCM	250 KCM	#4	3"
300	1	350 KCM	350 KCM	#4	3-1/2"
350	2	#2/0	#2/0	#3	2"
400	2	#3/0	#3/0	#2	2-1/2"
450	2	#4/0	#4/0	#2	2-1/2"
500	2	250 KCM	250 KCM	#2	3"
600	2	350 KCM	350 KCM	#1	3"
800	3	300 KCM	300 KCM	#1/0	3"
1000	4	250 KCM	250 KCM	#2/0	3"
1200	4	350 KCM	350 KCM	#3/0	3"
1600	6	300 KCM	300 KCM	#4/0	3"
2000	7	350 KCM	350 KCM	250 KCM	3"
2500	8	400 KCM	400 KCM	350 KCM	4"
3000	8	500 KCM	500 KCM	400 KCM	4"

NOTE: PROVIDE GROUND CONDUCTOR WITH ALL FEEDERS EXCEPT SERVICE ENTRANCE FEEDERS.

FEEDER SCHEDULE KEY:
XXXN: XXX = FEEDER AMPACITY
= PROVIDE QUANTITY OF PHASE CONDUCTORS
N = PROVIDE NEUTRAL CONDUCTOR

PANEL A1

VOLTAGE: 120/240, 1PH, 3W

BUS RATING: 225 A

MAINS: MLO

AIC RATING: 65K

INTEGRAL SPD: NO

FEED-THRU LUGS: NO

NEMA RATING: NEMA-1

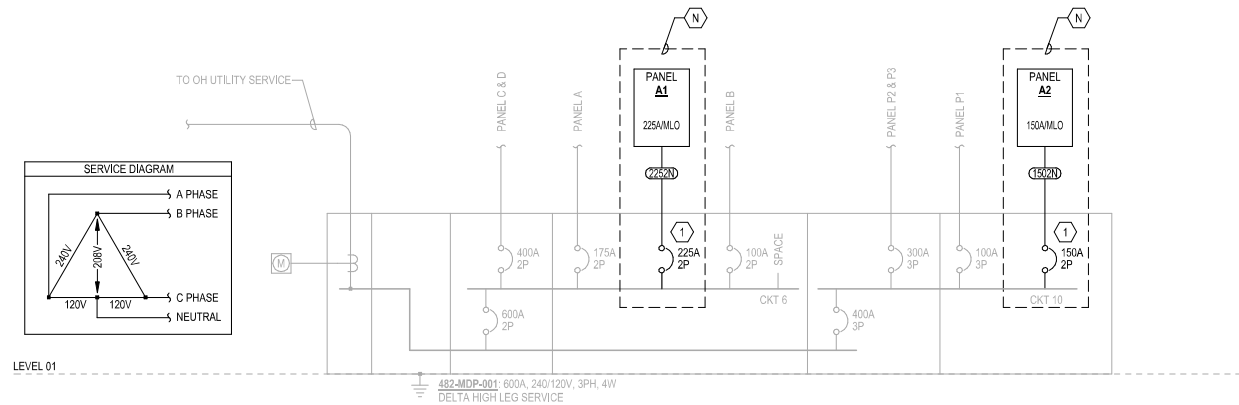
MOUNTING: SURFACE

LOCATION:

SUPPLY FROM:

CKT	TRIP	POLE	DESCRIPTION	TYPE	A	B	TYPE	DESCRIPTION	POLE	TRIP	CKT
1	45 A	2	PLASMA CUTTER (G)	G	3960	700					
3	--	--		--		3960	700	--			
5	35 A	1	WELDER (G)	G	6000						
7	40 A	2	WELDER (G)	G		3840					
9	--	--		--	3840						
11	20 A	1	SAND BLASTING CABINET (G)	G		1500					
13	25 A	2	TIRE CHANGER (G)	G	2040						
15	--	--		--		2040					
17	20 A	1	TIRE CHANGER (G)	G	1200						
19	20 A	2	TIRE BALANCER (G)	G		1200					
21	--	--		--	1200						
23	30 A	2	VEHICLE LIFT (G)	G		2400					
25	--	--		--	2400						
27	20 A	1	OVERHEAD DOOR (G)	M		1200					
29	20 A	1	OVERHEAD DOOR (G)	M	1200						
31	20 A	1	CONTROL PANEL, SOURCE POWER (G)	G		500					
33	20 A	1	GENERAL RECEPTACLES (G)	R	900						
35	20 A	1	GENERAL RECEPTACLES (G)	R		900					
37	20 A	1	GENERAL RECEPTACLES (G)	R	900						
39	20 A	1	GENERAL RECEPTACLES (G)	R		540					
41											
					24340 VA	18780 VA					
					203 A	157 A					
BREAKER KEY		LOAD CLASSIFICATION		CONNECTED LOAD		DEMAND FACTOR		ESTIMATED DEMAND		PANEL TOTALS	
(A) = AFCI		C = CONTINUOUS GENERAL LOAD		0 VA		0.00%		0 VA			
(A/G) = AFCI/GFCI		D = DWELLING UNIT		0 VA		0.00%		0 VA			
(G) = GFCI		E = ELECTRIC HEAT		0 VA		0.00%		0 VA			
(L) = LOCKABLE		G = GENERAL NON-CONTINUOUS LOAD		36080 VA		100.00%		36080 VA			
(N) = SWITCHED NEUTRAL		H = HVAC EQUIPMENT		1400 VA		100.00%		1400 VA			
(S) = SHUNT TRIP		HM = HOTEL/MOTEL		0 VA		0.00%		0 VA			
(GFP) = GROUND FAULT PROTECTED		K = KITCHEN EQUIPMENT		0 VA		0.00%		0 VA			
		L = LIGHTING		0 VA		0.00%		0 VA			
		LM = LARGEST MOTOR		0 VA		0.00%		0 VA			
		M = MOTOR		2400 VA		100.00%		2400 VA			
		R = RECEPTACLE		3240 VA		100.00%		3240 VA			
										TOTAL CONNECTED LOAD: 43120 VA	
										TOTAL DEMAND LOAD: 43120 VA	
										TOTAL DEMAND AMPS: 180 A	

PANEL A2			VOLTAGE: 120/240, 1PH, 3W BUS RATING: 150 A MAINS: MLO		AIC RATING: 65K INTEGRAL SPD: NO FEED-THRU LUGS: NO		NEMA RATING: NEMA-1 MOUNTING: SURFACE		LOCATION: SUPPLY FROM:			
CKT	TRIP	POLE	DESCRIPTION	TYPE	A (VA)	B (VA)	TYPE	DESCRIPTION	POLE	TRIP	CKT	
1	20 A	1	BLOCK HEATER (THRU RELAY PANEL) (G)	E	1800	564	L	GARAGE LIGHTS	1	20 A	2	
3	20 A	1	BLOCK HEATER (THRU RELAY PANEL) (G)	E		1800	1440	L	(E) GARAGE LIGHTS	1	20 A	4
5	20 A	1	BLOCK HEATER (THRU RELAY PANEL) (G)	E	1800	1440	L	(E) GARAGE LIGHTS	1	20 A	6	
7	20 A	1	BLOCK HEATER (THRU RELAY PANEL) (G)	E		1800					8	
9	20 A	1	BLOCK HEATER (THRU RELAY PANEL) (G)	E	1800						10	
11	20 A	1	BLOCK HEATER (THRU RELAY PANEL) (G)	E		1800					12	
13	20 A	1	BLOCK HEATER (THRU RELAY PANEL) (G)	E	1800						14	
15	20 A	1	BLOCK HEATER (THRU RELAY PANEL) (G)	E		1800					16	
17	20 A	1	BLOCK HEATER (THRU RELAY PANEL) (G)	E	1800						18	
19	20 A	1	BLOCK HEATER (THRU RELAY PANEL) (G)	E		1800					20	
21	20 A	1	BLOCK HEATER (THRU RELAY PANEL) (G)	E	1800						22	
23	20 A	1	BLOCK HEATER (THRU RELAY PANEL) (G)	E		1800					24	
25	20 A	1	BLOCK HEATER (THRU RELAY PANEL) (G)	E	1800						26	
27	20 A	1	BLOCK HEATER (THRU RELAY PANEL) (G)	E		1800					28	
29											30	
					14604 VA	14040 VA						
					122 A	117 A						
BREAKER KEY		LOAD CLASSIFICATION			CONNECTED LOAD		DEMAND FACTOR		ESTIMATED DEMAND		PANEL TOTALS	
(A) = AFCI		C = CONTINUOUS GENERAL LOAD			0 VA		0.00%		0 VA			
(A/G) = AFCI/GFCI		D = DWELLING UNIT			0 VA		0.00%		0 VA			
(G) = GFCI		E = ELECTRIC HEAT			25200 VA		100.00%		25200 VA			
(L) = LOCKABLE		G = GENERAL NON-CONTINUOUS LOAD			0 VA		0.00%		0 VA			
(N) = SWITCHED NEUTRAL		H = HVAC EQUIPMENT			0 VA		0.00%		0 VA			
(S) = SHUNT TRIP		HM = HOTEL/MOTEL			0 VA		0.00%		0 VA			
(GFP) = GROUND FAULT PROTECTED		K = KITCHEN EQUIPMENT			0 VA		0.00%		0 VA			
		L = LIGHTING			3444 VA		125.00%		4305 VA			
		LM = LARGEST MOTOR			0 VA		0.00%		0 VA			
		M = MOTOR			0 VA		0.00%		0 VA			
		R = RECEPTACLE			0 VA		0.00%		0 VA			
					TOTAL CONNECTED LOAD: 28644 VA							
					TOTAL DEMAND LOAD: 29505 VA							
					TOTAL DEMAND AMPS: 123 A							



GENERAL SHEET NOTES

- GRAY LINES INDICATE EXISTING TO REMAIN. BOLD LINES INDICATE NEW WORK.
- ELECTRICAL SCOPE IS LIMITED TO THE RECONNECTION OF EXISTING LOADS. ALL NEW ELECTRICAL CONNECTIONS UNDER THIS SCOPE OF WORK EXISTED PREVIOUSLY ON THIS ELECTRICAL SERVICE. 30 DAY METERING SHALL BE PROVIDED TO CONFIRM THE EXISTING SERVICE LOAD AND CALCULATE FEEDER CAPACITY.

KEYNOTES

- NEW BREAKER SHALL MATCH EXISTING MANUFACTURER AND AIC RATINGS.

LOAD CALCULATIONS

RECORDED PEAK DEMAND: 91.7 KVA
NEC 220.87 ADJUSTMENT FACTOR (125%): 114.6 KVA
NEW CALCULATED LOAD ADDED: 72.6 KVA
TOTAL CALCULATED LOAD (KVA): 187.2 KVA
TOTAL CALCULATED LOAD (AMPS): 451.2 AMPS

NOTES:
-BASED ON 30-DAY DEMAND READING.
-SERVICE VOLTAGE IS 240V/3PH DELTA.

1 ONE-LINE DIAGRAM - ELECTRICAL
NOT TO SCALE



E501