

**OUTDOOR CONDENSING UNITS SCHEDULES (ACC-N & ACC-S)
(BASIS: LG)**



VRF Outdoor Condensing Unit Data

Job Name/Location: Tag No.:
Date: PO No.:

ACC-N & S

ARUM121D7ES
Multi V™ 5 with LGRED® 460V ODU
10 Ton Single Frame Heat Pump and Heat Recovery

Performance:
Cooling Capacity (Btu/h) 115,000
Heating Capacity (Btu/h) 7.72
Nominal Capacity (Btu/h) 115,000
Power Input (kW) 5.20

Unit Data:
Refrigerant Type R410A
Max. Number of Indoor Units* 20
Sound Pressure @8ft (dBA) 59.0

Electrical:
Power Supply (V/Ph/Hz) 460/3/60
Rated Amps 10.7
Compressor (8) 10.7
Fan (A) 5.0

Optional Accessories:
- Air Caster - ZAGC8A25A
- Heat Guard Kit - ZHG8A25A
- Low Ambient Buffer Kit - ZLAMB8A25A (CL Control Kit - PRCV2) (per system)
- Base Fan Heater - ZPFA25A

Standard Features:
- Active Refrigerant Control
- Intelligent Heating
- HiPR (High Pressure Oil Return) Control
- Night Quiet Operation
- Fault Detection and Diagnosis

Optional Accessories:
- Active Refrigerant Control
- Variable Heat Path Exchanger
- Subcooling and Vapor Injection Control
- Liquid Coiled Inverter Control
- Advanced Control Cooling

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**INDOOR EVAPORATOR UNITS SCHEDULES (AC-1A THROUGH AC-22A)
(BASIS: LG)**



VRF Indoor Unit Data

Job Name/Location: Tag No.:
Date: PO No.:

**AC-1A thru 22A, AC-236*
Qty. (22), (23)*
(*AC-236 IS PART OF ADD-ALTERNATE #6)**

ARNU032TRD4
Multi V™ Four-Way 2' x 2' Ceiling Cassette
5,000 Btu/h Indoor Unit

Performance:
Cooling Capacity (Btu/h) 5,500
Heating Capacity (Btu/h) 4,500
L/M/H Power Input at Factory Default (W) 11.1/12.1/13.1

Electrical:
Power Supply (V/Ph/Hz) 208-230/1/60
Rated Amps 0.20

Piping:
Refrigerant Liquid Line (in., O.D.) 1/4
Vapor Line (in., O.D.) 1/4
Condensate Condensate Line (in., I.D.) 1/8
Factory Installed Pump* Yes

Controls Features:
- Auto changeover (Heat Recovery only)
- Auto operation
- Auto restart
- Dual thermostat control
- Dual setpoint control
- Timer (on/off)
- Weekly schedule

Required Accessories:
- AC grille kit (24" x 24" / 24" x 24") - P1-QC1W0

Optional Accessories:
- Wireless Remote Controller - PQRWHDQ08
- MultiSITe CR2C Controller - PREMTBV2C
- MultiSITe CR2+ Controller - PREMTBV2C+
- Simple Remote Controller - PREMTAD00
- Premium Remote Controller - PREMTAD00+
- Simple Dry Contact (5 contact, 24 VAC external power) - PDRYCB100
- Dry Contact for Third Party Thermostat - PDRYCB200
- Dry Contact for Extension - PDRYCB400
- Ventilation Kit - PVRV400
- Auxiliary Heater Kit - PRAH100
- Wi-Fi Module - PWRMWD200

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**INDOOR EVAPORATOR UNITS SCHEDULES (AC-1B THROUGH AC-9B)
(BASIS: LG)**



VRF Indoor Unit Data

Job Name/Location: Tag No.:
Date: PO No.:

**AC-1B thru 9B
Qty. (9)**

ARNU123TRD4
Multi V™ Four-Way 2' x 2' Ceiling Cassette
12,300 Btu/h Indoor Unit

Performance:
Cooling Capacity (Btu/h) 12,300
Heating Capacity (Btu/h) 11,600
L/M/H Power Input at Factory Default (W) 13.1/13.1/13.1

Electrical:
Power Supply (V/Ph/Hz) 208-230/1/60
Rated Amps 0.20

Piping:
Refrigerant Liquid Line (in., O.D.) 1/4
Vapor Line (in., O.D.) 1/4
Condensate Condensate Line (in., I.D.) 1/8
Factory Installed Pump* Yes

Controls Features:
- Auto changeover (Heat Recovery only)
- Auto operation
- Auto restart
- Dual thermostat control
- Dual setpoint control
- Timer (on/off)
- Weekly schedule

Required Accessories:
- AC grille kit (24" x 24" / 24" x 24") - P1-QC1W0

Optional Accessories:
- Wireless Remote Controller - PQRWHDQ08
- MultiSITe CR2C Controller - PREMTBV2C
- MultiSITe CR2+ Controller - PREMTBV2C+
- Simple Remote Controller - PREMTAD00
- Premium Remote Controller - PREMTAD00+
- Simple Dry Contact (5 contact, 24 VAC external power) - PDRYCB100
- Dry Contact for Third Party Thermostat - PDRYCB200
- Dry Contact for Extension - PDRYCB400
- Ventilation Kit - PVRV400
- Auxiliary Heater Kit - PRAH100
- Wi-Fi Module - PWRMWD200

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VRF SYSTEM WALL CONTROLLER SPECIFICATIONS/SCHEDULE (BASIS: LG)



VRF Wall Controller Data

Job Name/Location: Tag #:
Date: PO No.:

PREMTBV2C
MultiSITe CR2C Remote Controller

Power Supply: 12VDC power from indoor unit

Surrounding Conditions:
Temperature Operating: 32-122°F
Storage: -22-122°F
Humidity Operating: 5-95% RH (non-condensing)
Storage: 0-95% RH (non-condensing)

Unit Data:
Dimensions: 4.72" H x 3.39" W x 1.06" D
Maximum Number of Indoor Units (per controller): 16

Features:
- Customizable color digital touch screen interface with MultiLanguage support
- MultiSITe™ M2P or Wireless IP (optional)
- ZigBee™ Pro wireless mesh network (optional)
- Hub based configuration (password protected)
- Multi-air conditioning
- Function code settings
- Function Code Search Tool
- Date and Time Display
- Room temperature display (5° F ~ 19° F adjustable)
- Humidity Display (35% ~ 15% adjustable)
- Operation - ON/OFF
- Mode - Auto/Cool/Dry/Heat/Fan Only
- Occupied cooling and heating temperature setpoints
- Unoccupied cooling and heating temperature setpoints
- Fan speed - Auto/Low/Med/High/Power
- Multiple pressure installer settings
- Multi-air pressure installer settings

Optional Accessories (sold separately):
- PRCV2C1 - Group Control Cable Kit
- PRCV2C2 - Extension Cable (for ODU without terminal blocks)
- PRCV2C3 - ZigBee™ Pro Wireless Module
- PRCV2C4 - Wireless Wall Mounted Occupancy, Temperature and Humidity Sensor
- PRCV2C5 - Wireless CO2, Temperature & Humidity Sensor
- PRCV2C6 - Wireless Leak Sensor
- VCMR02V004 - Wi-Fi Module (BACnet Wireless IP)

Notes:
1. See Engineering Manual for venable and latent capacities.
2. Maximum IR is 17.5/2 inches from bottom of unit.
3. Sound Pressure levels are tested in an anechoic chamber under ISO Standard STG5.
4. Communication cable between Main outdoor units to indoor units / Heat recovery units to be 18 AWG, 2 conductor twisted, stranded, shielded. Ensure the communication cable shield is properly grounded to the Main outdoor unit chassis only. Do not ground the outdoor unit to indoor units / Heat recovery units communication cable at any other point. Wiring must comply with all applicable local and national codes.
5. Power wiring is field provided, and must comply with the applicable local and national code.
6. This unit comes with a dry nitrogen charge.
7. All capacitors are not with a combination ratio between 95 ~ 105%.
8. Must follow installation instructions in the applicable LG installation manual.

Terminal Block Description:

TERMINAL	DESCRIPTION
4 (S)	TX - RJ45 Communication
5 (C/D)	12 Volt DC
6 (S)	Common
13	BACnet +
14	BACnet -
15	BACnet Common

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Job Name/Location: Tag #:
Date: PO No.:

PREMTBV2C
MultiSITe CR2C Remote Controller

Current Date: 2:43 PM
Current Time: 2:43 PM
Occupancy Status: Occ Auto Heat
Indoor Temp: 74°F
Room Indoor Humidity: 50%
Room Indoor Temp: 74°F

Current Fan Speed Setting: 2
Operation Mode Status: Up Arrow
Down Arrow: Low Temperature Setpoint

On/Off: Turn the display on or off

Operation Mode: Set Cool, Heat, Auto Cool, Auto Heat, Fan, Dry modes

Schedule: Set weekly schedule

Short Network Message:

Recommended installation:
Height for PIR sensor: 4.5 ft / 1.5 m
Horizontal Angles (Typical): Transverse modes: 4.5 ft / 1.5 m
Vertical Angle (Typical): Center

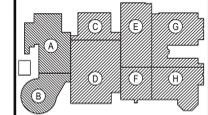
Dimensions:
A = 20 ft / 6.1 m
B = 14 ft / 4.3 m
C = 11 ft / 3.4 m

Unit Data:
Dimensions: 4.72" H x 3.39" W x 1.06" D
Maximum Number of Indoor Units (per controller): 16

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REV.	DATE	ITEM
1	12/9/22	BID ADDENDUM #3

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KEY PLAN
NOT TO SCALE

PROJECT: BRIARCLIFF MANOR U.F.S.D. PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE/HIGH SCHOOL
444 PLEASANTVILLE RD. BRIARCLIFF MANOR, NY 10510

DWG TITLE: SCHEDULES, EQUIPMENT NOTES AND DETAILS (3 OF 10)

DRAWING BY: R.D.P.
CHECK BY: F.S.

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www.bbsarchitecture.com

Job Name/Location: Tag No.:
Date: PO No.:

ARUM121D7ES
Multi V™ 5 with LGRED® 460V ODU
10 Ton Single Frame Heat Pump and Heat Recovery

Performance:
Cooling Capacity (Btu/h) 115,000
Heating Capacity (Btu/h) 7.72
Nominal Capacity (Btu/h) 115,000
Power Input (kW) 5.20

Unit Data:
Refrigerant Type R410A
Max. Number of Indoor Units* 20
Sound Pressure @8ft (dBA) 59.0

Electrical:
Power Supply (V/Ph/Hz) 460/3/60
Rated Amps 10.7
Compressor (8) 10.7
Fan (A) 5.0

Optional Accessories:
- Air Caster - ZAGC8A25A
- Heat Guard Kit - ZHG8A25A
- Low Ambient Buffer Kit - ZLAMB8A25A (CL Control Kit - PRCV2) (per system)
- Base Fan Heater - ZPFA25A

Standard Features:
- Active Refrigerant Control
- Intelligent Heating
- HiPR (High Pressure Oil Return) Control
- Night Quiet Operation
- Fault Detection and Diagnosis

Optional Accessories:
- Active Refrigerant Control
- Variable Heat Path Exchanger
- Subcooling and Vapor Injection Control
- Liquid Coiled Inverter Control
- Advanced Control Cooling

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Job Name/Location: Tag No.:
Date: PO No.:

**AC-1A thru 22A, AC-236*
Qty. (22), (23)*
(*AC-236 IS PART OF ADD-ALTERNATE #6)**

ARNU032TRD4
Multi V™ Four-Way 2' x 2' Ceiling Cassette
5,000 Btu/h Indoor Unit

Performance:
Cooling Capacity (Btu/h) 5,500
Heating Capacity (Btu/h) 4,500
L/M/H Power Input at Factory Default (W) 11.1/12.1/13.1

Electrical:
Power Supply (V/Ph/Hz) 208-230/1/60
Rated Amps 0.20

Piping:
Refrigerant Liquid Line (in., O.D.) 1/4
Vapor Line (in., O.D.) 1/4
Condensate Condensate Line (in., I.D.) 1/8
Factory Installed Pump* Yes

Controls Features:
- Auto changeover (Heat Recovery only)
- Auto operation
- Auto restart
- Dual thermostat control
- Dual setpoint control
- Timer (on/off)
- Weekly schedule

Required Accessories:
- AC grille kit (24" x 24" / 24" x 24") - P1-QC1W0

Optional Accessories:
- Wireless Remote Controller - PQRWHDQ08
- MultiSITe CR2C Controller - PREMTBV2C
- MultiSITe CR2+ Controller - PREMTBV2C+
- Simple Remote Controller - PREMTAD00
- Premium Remote Controller - PREMTAD00+
- Simple Dry Contact (5 contact, 24 VAC external power) - PDRYCB100
- Dry Contact for Third Party Thermostat - PDRYCB200
- Dry Contact for Extension - PDRYCB400
- Ventilation Kit - PVRV400
- Auxiliary Heater Kit - PRAH100
- Wi-Fi Module - PWRMWD200

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Job Name/Location: Tag No.:
Date: PO No.:

**AC-1B thru 9B
Qty. (9)**

ARNU123TRD4
Multi V™ Four-Way 2' x 2' Ceiling Cassette
12,300 Btu/h Indoor Unit

Performance:
Cooling Capacity (Btu/h) 12,300
Heating Capacity (Btu/h) 11,600
L/M/H Power Input at Factory Default (W) 13.1/13.1/13.1

Electrical:
Power Supply (V/Ph/Hz) 208-230/1/60
Rated Amps 0.20

Piping:
Refrigerant Liquid Line (in., O.D.) 1/4
Vapor Line (in., O.D.) 1/4
Condensate Condensate Line (in., I.D.) 1/8
Factory Installed Pump* Yes

Controls Features:
- Auto changeover (Heat Recovery only)
- Auto operation
- Auto restart
- Dual thermostat control
- Dual setpoint control
- Timer (on/off)
- Weekly schedule

Required Accessories:
- AC grille kit (24" x 24" / 24" x 24") - P1-QC1W0

Optional Accessories:
- Wireless Remote Controller - PQRWHDQ08
- MultiSITe CR2C Controller - PREMTBV2C
- MultiSITe CR2+ Controller - PREMTBV2C+
- Simple Remote Controller - PREMTAD00
- Premium Remote Controller - PREMTAD00+
- Simple Dry Contact (5 contact, 24 VAC external power) - PDRYCB100
- Dry Contact for Third Party Thermostat - PDRYCB200
- Dry Contact for Extension - PDRYCB400
- Ventilation Kit - PVRV400
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- Wi-Fi Module - PWRMWD200

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Job Name/Location: Tag #:
Date: PO No.:

PREMTBV2C
MultiSITe CR2C Remote Controller

Power Supply: 12VDC power from indoor unit

Surrounding Conditions:
Temperature Operating: 32-122°F
Storage: -22-122°F
Humidity Operating: 5-95% RH (non-condensing)
Storage: 0-95% RH (non-condensing)

Unit Data:
Dimensions: 4.72" H x 3.39" W x 1.06" D
Maximum Number of Indoor Units (per controller): 16

Features:
- Customizable color digital touch screen interface with MultiLanguage support
- MultiSITe™ M2P or Wireless IP (optional)
- ZigBee™ Pro wireless mesh network (optional)
- Hub based configuration (password protected)
- Multi-air conditioning
- Function code settings
- Function Code Search Tool
- Date and Time Display
- Room temperature display (5° F ~ 19° F adjustable)
- Humidity Display (35% ~ 15% adjustable)
- Operation - ON/OFF
- Mode - Auto/Cool/Dry/Heat/Fan Only
- Occupied cooling and heating temperature setpoints
- Unoccupied cooling and heating temperature setpoints
- Fan speed - Auto/Low/Med/High/Power
- Multiple pressure installer settings
- Multi-air pressure installer settings

Optional Accessories (sold separately):
- PRCV2C1 - Group Control Cable Kit
- PRCV2C2 - Extension Cable (for ODU without terminal blocks)
- PRCV2C3 - ZigBee™ Pro Wireless Module
- PRCV2C4 - Wireless Wall Mounted Occupancy, Temperature and Humidity Sensor
- PRCV2C5 - Wireless CO2, Temperature & Humidity Sensor
- PRCV2C6 - Wireless Leak Sensor
- VCMR02V004 - Wi-Fi Module (BACnet Wireless IP)

Notes:
1. See Engineering Manual for venable and latent capacities.
2. Maximum IR is 17.5/2 inches from bottom of unit.
3. Sound Pressure levels are tested in an anechoic chamber under ISO Standard STG5.
4. Communication cable between Main outdoor units to indoor units / Heat recovery units to be 18 AWG, 2 conductor twisted, stranded, shielded. Ensure the communication cable shield is properly grounded to the Main outdoor unit chassis only. Do not ground the outdoor unit to indoor units / Heat recovery units communication cable at any other point. Wiring must comply with all applicable local and national codes.
5. Power wiring is field provided, and must comply with the applicable local and national code.
6. This unit comes with a dry nitrogen charge.
7. All capacitors are not with a combination ratio between 95 ~ 105%.
8. Must follow installation instructions in the applicable LG installation manual.

Terminal Block Description:

TERMINAL	DESCRIPTION
4 (S)	TX - RJ45 Communication
5 (C/D)	12 Volt DC
6 (S)	Common
13	BACnet +
14	BACnet -
15	BACnet Common

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ARUM121D7ES
Multi V™ 5 with LGRED® 460V ODU
10 Ton Single Frame Heat Pump and Heat Recovery

Performance:
Cooling Capacity (Btu/h) 115,000
Heating Capacity (Btu/h) 7.72
Nominal Capacity (Btu/h) 115,000
Power Input (kW) 5.20

Unit Data:
Refrigerant Type R410A
Max. Number of Indoor Units* 20
Sound Pressure @8ft (dBA) 59.0

Electrical:
Power Supply (V/Ph/Hz) 460/3/60
Rated Amps 10.7
Compressor (8) 10.7
Fan (A) 5.0

Optional Accessories:
- Air Caster - ZAGC8A25A
- Heat Guard Kit - ZHG8A25A
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- Base Fan Heater - ZPFA25A

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**AC-1A thru 22A, AC-236*
Qty. (22), (23)*
(*AC-236 IS PART OF ADD-ALTERNATE #6)**

ARNU032TRD4
Multi V™ Four-Way 2' x 2' Ceiling Cassette
5,000 Btu/h Indoor Unit

Performance:
Cooling Capacity (Btu/h) 5,500
Heating Capacity (Btu/h) 4,500
L/M/H Power Input at Factory Default (W) 11.1/12.1/13.1

Electrical:
Power Supply (V/Ph/Hz) 208-230/1/60
Rated Amps 0.20

Piping:
Refrigerant Liquid Line (in., O.D.) 1/4
Vapor Line (in., O.D.) 1/4
Condensate Condensate Line (in., I.D.) 1/8
Factory Installed Pump* Yes

Controls Features:
- Auto changeover (Heat Recovery only)
- Auto operation
- Auto restart
- Dual thermostat control
- Dual setpoint control
- Timer (on/off)
- Weekly schedule

Required Accessories:
- AC grille kit (24" x 24" / 24" x 24") - P1-QC1W0

Optional Accessories:
- Wireless Remote Controller - PQRWHDQ08
- MultiSITe CR2C Controller - PREMTBV2C
- MultiSITe CR2+ Controller - PREMTBV2C+
- Simple Remote Controller - PREMTAD00
- Premium Remote Controller - PREMTAD00+
- Simple Dry Contact (5 contact, 24 VAC external power) - PDRYCB100
- Dry Contact for Third Party Thermostat - PDRYCB200
- Dry Contact for Extension - PDRYCB400
- Ventilation Kit - PVRV400
- Auxiliary Heater Kit - PRAH100
- Wi-Fi Module - PWRMWD200

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Job Name/Location: Tag No.:
Date: PO No.:

**AC-1B thru 9B
Qty. (9)**

ARNU123TRD4
Multi V™ Four-Way 2' x 2' Ceiling Cassette
12,300 Btu/h Indoor Unit

Performance:
Cooling Capacity (Btu/h) 12,300
Heating Capacity (Btu/h) 11,600
L/M/H Power Input at Factory Default (W) 13.1/13.1/13.1

Electrical:
Power Supply (V/Ph/Hz) 208-230/1/60
Rated Amps 0.20

Piping:
Refrigerant Liquid Line (in., O.D.) 1/4
Vapor Line (in., O.D.) 1/4
Condensate Condensate Line (in., I.D.) 1/8
Factory Installed Pump* Yes

Controls Features:
- Auto changeover (Heat Recovery only)
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- Auto restart
- Dual thermostat control
- Dual setpoint control
- Timer (on/off)
- Weekly schedule

Required Accessories:
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Optional Accessories:
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- MultiSITe CR2C Controller - PREMTBV2C
- MultiSITe CR2+ Controller - PREMTBV2C+
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- Dry Contact for Extension - PDRYCB400
- Ventilation Kit - PVRV400
- Auxiliary Heater Kit - PRAH100
- Wi-Fi Module - PWRMWD200

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Job Name/Location: Tag #:
Date: PO No.:

PREMTBV2C
MultiSITe CR2C Remote Controller

Power Supply: 12VDC power from indoor unit

Surrounding Conditions:
Temperature Operating: 32-122°F
Storage: -22-122°F
Humidity Operating: 5-95% RH (non-condensing)
Storage: 0-95% RH (non-condensing)

Unit Data:
Dimensions: 4.72" H x 3.39" W x 1.06" D
Maximum Number of Indoor Units (per controller): 16

Features:
- Customizable color digital touch screen interface with MultiLanguage support
- MultiSITe™ M2P or Wireless IP (optional)
- ZigBee™ Pro wireless mesh network (optional)
- Hub based configuration (password protected)
- Multi-air conditioning
- Function code settings
- Function Code Search Tool
- Date and Time Display
- Room temperature display (5° F ~ 19° F adjustable)
- Humidity Display (35% ~ 15% adjustable)
- Operation - ON/OFF
- Mode - Auto/Cool/Dry/Heat/Fan Only
- Occupied cooling and heating temperature setpoints
- Unoccupied cooling and heating temperature setpoints
- Fan speed - Auto/Low/Med/High/Power
- Multiple pressure installer settings
- Multi-air pressure installer settings

Optional Accessories (sold separately):
- PRCV2C1 - Group Control Cable Kit
- PRCV2C2 - Extension Cable (for ODU without terminal blocks)
- PRCV2C3 - ZigBee™ Pro Wireless Module
- PRCV2C4 - Wireless Wall Mounted Occupancy, Temperature and Humidity Sensor
- PRCV2C5 - Wireless CO2, Temperature & Humidity Sensor
- PRCV2C6 - Wireless Leak Sensor
- VCMR02V004 - Wi-Fi Module (BACnet Wireless IP)

Notes:
1. See Engineering Manual for venable and latent capacities.
2. Maximum IR is 17.5/2 inches from bottom of unit.
3. Sound Pressure levels are tested in an anechoic chamber under ISO Standard STG5.
4. Communication cable between Main outdoor units to indoor units / Heat recovery units to be 18 AWG, 2 conductor twisted, stranded, shielded. Ensure the communication cable shield is properly grounded to the Main outdoor unit chassis only. Do not ground the outdoor unit to indoor units / Heat recovery units communication cable at any other point. Wiring must comply with all applicable local and national codes.
5. Power wiring is field provided, and must comply with the applicable local and national code.
6. This unit comes with a dry nitrogen charge.
7. All capacitors are not with a combination ratio between 95 ~ 105%.
8. Must follow installation instructions in the applicable LG installation manual.

Terminal Block Description:

TERMINAL	DESCRIPTION
4 (S)	TX - RJ45 Communication
5 (C/D)	12 Volt DC
6 (S)	Common
13	BACnet +
14	BACnet -
15	BACnet Common

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ADDITIONAL SCHEDULE NOTES:
1. PROVIDE FACTORY-AUTHORIZED MANUFACTURER'S REPRESENTATIVE PRESENT TO PERFORM START-UP, COMMISSIONING, TESTING, AND TRAINING OF NEW EQUIPMENT TO OWNER'S PERSONNEL.
2. APPROVED MANUFACTURER SHALL VISIT JOB SITE TO CONFIRM EXACT DIMENSIONS AND REFRIGERANT PIPING RUN PRIOR TO FURNISHING SUBMITTAL TO M.C. TO PROVIDE TO ARCHITECT/ENGINEER FOR REVIEW.
3. PROVIDE INTERNAL LIFT CONDENSATE PUMP WITH UNIT.
4. THE IN VRF SYSTEM VIA BACNET CARD TO EXISTING BUILDING MANAGEMENT SYSTEM. SEE SPECIFICATIONS FOR FURTHER DETAILS.
5. COORDINATE INSTALLATION WORK WITH G.C.

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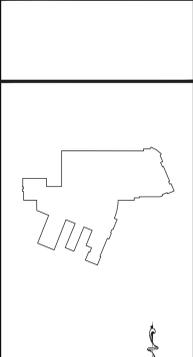
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SED No:	66-14-02-02-004-023
DISTRICT:	BRIARCLIFF MANOR UFSD
PROJECT:	PHASE 2 BOND IMPROVEMENTS
DWG TITLE:	SCHEDULES, EQUIPMENT NOTES AND DETAILS (3 OF 10)
SCALE:	AS NOTED
DATE:	7/15/22
BID PICK-UP:	
FILE No:	21-274C

M6.03 HSMS

REV.	DATE	ITEM
1	12.09.22	BID ADDENDUM #3

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KEY PLAN
 NOT TO SCALE

PROJECT
 BRIARCLIFF MANOR U.F.S.D.
 PHASE 2 BOND IMPROVEMENTS
 TODD ELEMENTARY SCHOOL
 45 INGHAM ROAD, BRIARCLIFF MANOR, NY 10510

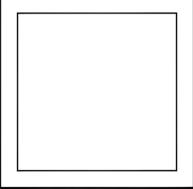
DWG TITLE
 PROPOSED PANEL REPLACEMENT, CO DETECTION, AND MISCELLANEOUS PLANS

DRAWING BY: A.G.
 CHECK BY: F.S.

NOTICE
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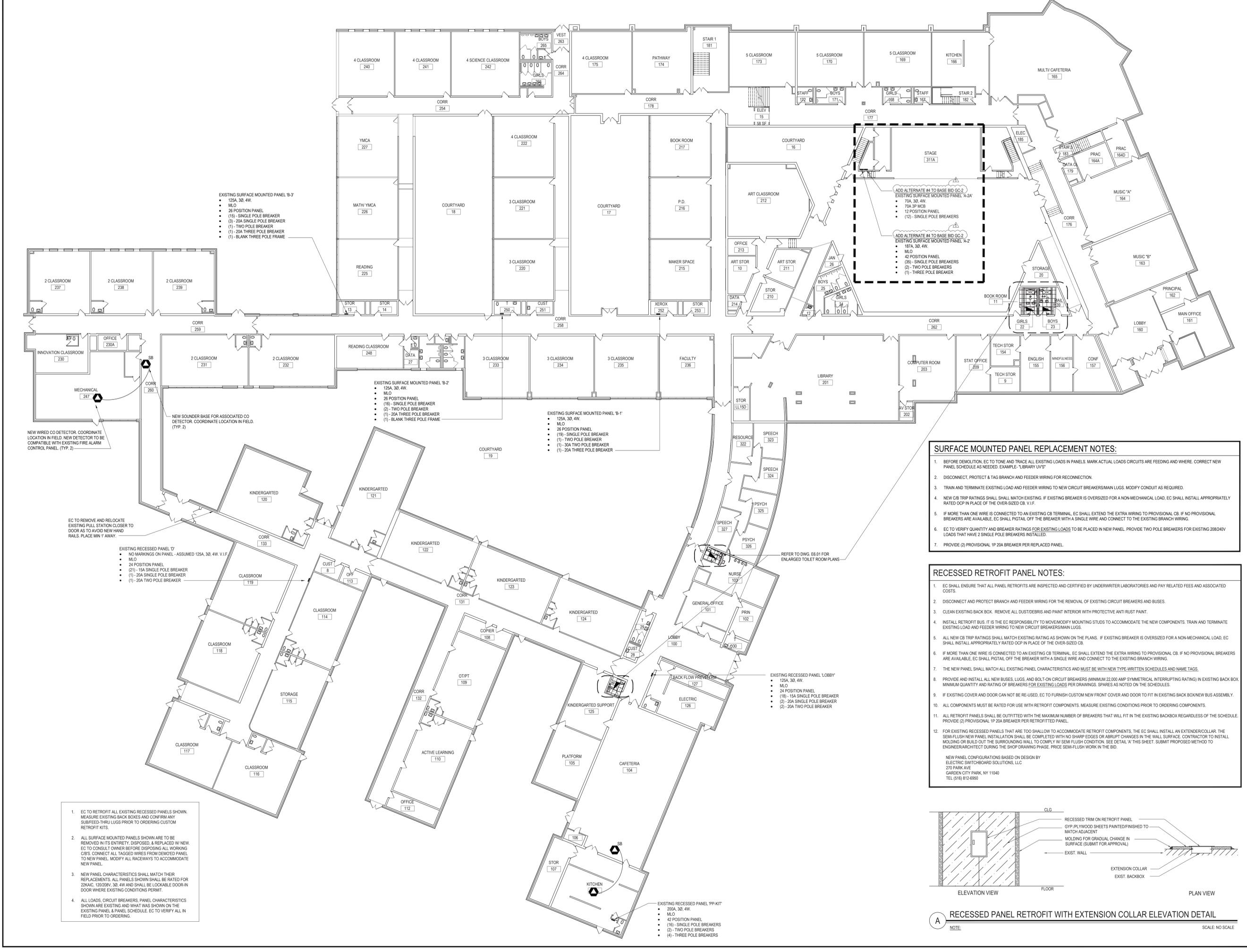
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SED No: 66-14-02-02-0-002-021
 DISTRICT: BRIARCLIFF MANOR U.F.S.D. DISTRICT NAME
 PROJECT: PHASE 2 BOND IMPROVEMENTS AT TODD ES
 DWG TITLE: ELECTRICAL PROPOSED PLANS
 SCALE: AS NOTED
 DATE: NOVEMBER 14, 2022
 BID PICK-UP: NOVEMBER 14, 2022
 FILE No: 21-247D

E4.01

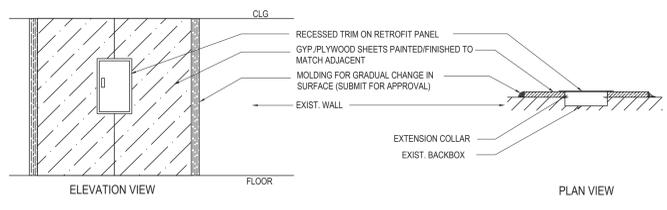


SURFACE MOUNTED PANEL REPLACEMENT NOTES:

- BEFORE DEMOLITION, EC TO TONE AND TRACE ALL EXISTING LOADS IN PANELS. MARK ACTUAL LOADS CIRCUITS ARE FEEDING AND WHERE. CORRECT NEW PANEL SCHEDULE AS NEEDED. EXAMPLE- "LIBRARY UV'S"
- DISCONNECT, PROTECT & TAG BRANCH AND FEEDER WIRING FOR RECONNECTION.
- TRAIN AND TERMINATE EXISTING LOAD AND FEEDER WIRING TO NEW CIRCUIT BREAKERS/MAN LUGS. MODIFY CONDUIT AS REQUIRED.
- NEW CB TRIP RATINGS SHALL MATCH EXISTING. IF EXISTING BREAKER IS OVERSIZED FOR A NON-MECHANICAL LOAD, EC SHALL INSTALL APPROPRIATELY RATED OCP IN PLACE OF THE OVER-SIZED CB. V.I.F.
- IF MORE THAN ONE WIRE IS CONNECTED TO AN EXISTING CB TERMINAL, EC SHALL EXTEND THE EXTRA WIRING TO PROVISIONAL CB. IF NO PROVISIONAL BREAKERS ARE AVAILABLE, EC SHALL PITGAL OFF THE BREAKER WITH A SINGLE WIRE AND CONNECT TO THE EXISTING BRANCH WIRING.
- EC TO VERIFY QUANTITY AND BREAKER RATINGS FOR EXISTING LOADS TO BE PLACED IN NEW PANEL. PROVIDE TWO POLE BREAKERS FOR EXISTING 208/240V LOADS THAT HAVE 2 SINGLE POLE BREAKERS INSTALLED.
- PROVIDE (2) PROVISIONAL 1P 20A BREAKER PER REPLACED PANEL.

RECESSED RETROFIT PANEL NOTES:

- EC SHALL ENSURE THAT ALL PANEL RETROFITS ARE INSPECTED AND CERTIFIED BY UNDERWRITER LABORATORIES AND PAY RELATED FEES AND ASSOCIATED COSTS.
- DISCONNECT AND PROTECT BRANCH AND FEEDER WIRING FOR THE REMOVAL OF EXISTING CIRCUIT BREAKERS AND BUSES.
- CLEAN EXISTING BACK BOX. REMOVE ALL DUST/DEBRIS AND PAINT INTERIOR WITH PROTECTIVE ANTI RUST PAINT.
- INSTALL RETROFIT BUS. IT IS THE EC RESPONSIBILITY TO MOVE/MODIFY MOUNTING STUDS TO ACCOMMODATE THE NEW COMPONENTS. TRAIN AND TERMINATE EXISTING LOAD AND FEEDER WIRING TO NEW CIRCUIT BREAKERS/MAN LUGS.
- ALL NEW CB TRIP RATINGS SHALL MATCH EXISTING RATING AS SHOWN ON THE PLANS. IF EXISTING BREAKER IS OVERSIZED FOR A NON-MECHANICAL LOAD, EC SHALL INSTALL APPROPRIATELY RATED OCP IN PLACE OF THE OVER-SIZED CB.
- IF MORE THAN ONE WIRE IS CONNECTED TO AN EXISTING CB TERMINAL, EC SHALL EXTEND THE EXTRA WIRING TO PROVISIONAL CB. IF NO PROVISIONAL BREAKERS ARE AVAILABLE, EC SHALL PITGAL OFF THE BREAKER WITH A SINGLE WIRE AND CONNECT TO THE EXISTING BRANCH WIRING.
- THE NEW PANEL SHALL MATCH ALL EXISTING PANEL CHARACTERISTICS AND MUST BE WITH NEW TYPE-WRITTEN SCHEDULES AND NAME TAGS.
- PROVIDE AND INSTALL ALL NEW BUSES, LUGS, AND BOLT-ON CIRCUIT BREAKERS (MINIMUM 22,000 AMP SYMMETRICAL INTERRUPTING RATING) IN EXISTING BACK BOX. MINIMUM QUANTITY AND RATING OF BREAKERS FOR EXISTING LOADS PER DRAWINGS. SPARES AS NOTED ON THE SCHEDULES.
- IF EXISTING COVER AND DOOR CAN NOT BE RE-USED, EC TO FURNISH CUSTOM NEW FRONT COVER AND DOOR TO FIT IN EXISTING BACK BOX/NEW BUS ASSEMBLY.
- ALL COMPONENTS MUST BE RATED FOR USE WITH RETROFIT COMPONENTS. MEASURE EXISTING CONDITIONS PRIOR TO ORDERING COMPONENTS.
- ALL RETROFIT PANELS SHALL BE OUTFITTED WITH THE MAXIMUM NUMBER OF BREAKERS THAT WILL FIT IN THE EXISTING BACKBOX REGARDLESS OF THE SCHEDULE. PROVIDE (2) PROVISIONAL 1P 20A BREAKER PER RETROFITTED PANEL.
- FOR EXISTING RECESSED PANELS THAT ARE TOO SHALLOW TO ACCOMMODATE RETROFIT COMPONENTS, THE EC SHALL INSTALL AN EXTENDER COLLAR. THE SEMI-FLUSH NEW PANEL INSTALLATION SHALL BE COMPLETED WITH NO SHARP EDGES OR ABRUPT CHANGES IN THE WALL SURFACE. CONTRACTOR TO INSTALL HOLDING OR BUILD-OUT THE SURROUNDING WALL TO COMPLY W/ SEMI-FLUSH CONDITION. SEE DETAIL "A" THIS SHEET. SUBMIT PROPOSED METHOD TO ENGINEER/ARCHITECT DURING THE SHOP DRAWING PHASE. PRICE SEMI-FLUSH WORK IN THE BID.



RECESSED PANEL RETROFIT WITH EXTENSION COLLAR ELEVATION DETAIL
 NOTE: SCALE: NO SCALE

- EC TO RETROFIT ALL EXISTING RECESSED PANELS SHOWN. MEASURE EXISTING BACK BOXES AND CONFIRM ANY SUBFEED THRU LUGS PRIOR TO ORDERING CUSTOM RETROFIT KITS.
- ALL SURFACE MOUNTED PANELS SHOWN ARE TO BE REMOVED IN ITS ENTIRETY, DISPOSED, & REPLACED W/ NEW. EC TO CONSULT OWNER BEFORE DISPOSING ALL WORKING CIRCS. CONNECT ALL TAGGED WIRES FROM DEMO'D PANEL TO NEW PANEL. MODIFY ALL RACEWAYS TO ACCOMMODATE NEW PANEL.
- NEW PANEL CHARACTERISTICS SHALL MATCH THEIR REPLACEMENTS. ALL PANELS SHOWN SHALL BE RATED FOR 220KVA, 120/208V, 3Ø, 4W AND SHALL BE LOCKABLE DOOR-IN DOOR WHERE EXISTING CONDITIONS PERMIT.
- ALL LOADS, CIRCUIT BREAKERS, PANEL CHARACTERISTICS SHOWN ARE EXISTING AND WHAT WAS SHOWN ON THE EXISTING PANEL & PANEL SCHEDULE. EC TO VERIFY ALL IN FIELD PRIOR TO ORDERING.

EXISTING RECESSED PANEL 'D'

- NO MARKINGS ON PANEL - ASSUMED 125A, 3Ø, 4W, V.I.F.
- MLO
- 24 POSITION PANEL
- (21) - 15A SINGLE POLE BREAKER
- (1) - 20A SINGLE POLE BREAKER
- (1) - 20A TWO POLE BREAKER

NEW SOUNDER BASE FOR ASSOCIATED CO DETECTOR. COORDINATE LOCATION IN FIELD. (TYP. 2)

NEW WIRED CO DETECTOR. COORDINATE LOCATION IN FIELD. NEW DETECTOR TO BE COMPATIBLE WITH EXISTING FIRE ALARM CONTROL PANEL. (TYP. 2)

EXISTING SURFACE MOUNTED PANEL 'B-3'

- 125A, 3Ø, 4W.
- MLO
- 26 POSITION PANEL
- (15) - SINGLE POLE BREAKER
- (3) - 20A SINGLE POLE BREAKER
- (1) - TWO POLE BREAKER
- (1) - 20A THREE POLE BREAKER
- (1) - BLANK THREE POLE FRAME

EXISTING SURFACE MOUNTED PANEL 'B-2'

- 125A, 3Ø, 4W.
- MLO
- 26 POSITION PANEL
- (16) - SINGLE POLE BREAKER
- (2) - TWO POLE BREAKER
- (1) - 20A THREE POLE BREAKER
- (1) - BLANK THREE POLE FRAME

EXISTING SURFACE MOUNTED PANEL 'B-1'

- 125A, 3Ø, 4W.
- MLO
- 26 POSITION PANEL
- (19) - SINGLE POLE BREAKER
- (1) - TWO POLE BREAKER
- (1) - 30A TWO POLE BREAKER
- (1) - 20A THREE POLE BREAKER

EXISTING RECESSED PANEL 'LOBBY'

- 125A, 3Ø, 4W.
- MLO
- 24 POSITION PANEL
- (16) - 15A SINGLE POLE BREAKER
- (2) - 20A SINGLE POLE BREAKER
- (2) - 20A TWO POLE BREAKER

EXISTING RECESSED PANEL 'PP-KIT'

- 200A, 3Ø, 4W.
- MLO
- 42 POSITION PANEL
- (16) - SINGLE POLE BREAKERS
- (2) - TWO POLE BREAKERS
- (4) - THREE POLE BREAKERS