Change Order # 008

Ida Yarbrough 2

252 North Pearl St, Albany , NY 12210

Contract Date: 12/23/2016
Contractor: AoW
30 Essex St
Albany, NY 12206

Initiation Date of C.O. 02/14/2019
Owner: Ida Yarbrough Phase II LLC
200 South Pearl St
Albany NY 12202

1. You are directed to make the following changes in this Contract (See Attached):

Lark Drive

Building 2

045 R1	Building 2 Additional Soffits	2,788.00
MidRise		
025R1	Revise Mid Rise lighting as per AC-41	-$57,000
037	Vinyl Base in lieu of Wood Base	-$2,090
050	AC-033 Bar Joist / MEP Coordination	$1,617
051	AC-064 - Static Pressure Sensor	$822
052	Additional FD Connection	$2,280
056	Rollup Door vs. OHD	5,510.00
	Subtotal.....	-46,073.00

2. Cost:

a) The original Contract Sum was	19,611,975.00
b)The net change by previous authorized Change Orders	459,497.00
c) The Contract Sum prior to this Change Order	20,071,472.00
d)The Contract Sum will be (increased) by this change.....	-46,073.00
e)The new Contract Sum including this Change Order will be.....	20,025,399.00

Mid Rise Generator

3. Time frame The impact to the project critical path, is 0 additional days
The original / last revised contract final completion date 6/04/19
The revised contract completion date 6/04/19

4.

	Contractor	Owner	Architect
	AoW	Ida Yarbrough Phase II LLC	Dave Sadowsky, Architect, P.C.
By:			
Title:	CFO	Pres.	Principal
Date:	15 Feb 2019	2.28.2019	2-14-19

New York State
NYS Homes & Comm. Renewal
A & E Bureau

Accepted: Date: 2/28/19

Change Order 08 Justifications

02/14/19

Ida Yarborough Phase 2

Note: all items including evaluation / negotiation of pricing have been reviewed by and are acceptable to the Project Architect.

Building 2:

COR 045 R1 Building 2 Additional Soffits $ 2,788

Per AC 18 the contractor was directed to redirect duct work due to low ceiling heights. As result of the duct change, some soffits that were shown in the contract documents were removed & some additional soffits were added, The price above reflects the net cost of the added soffits vs. the soffits shown per contract.

Mid Rise:

COR 025 R1 Revise Mid Rise lighting as per AC-41 [$ 57,000]

Per AC 41 R2 a less expensive light fixture was chosen to use in lieu of the specified fixture. The price above reflects a cost saving of +/- $159 / per fixture.

COR 0036 Vinyl Base in lieu of Wood Base [$ 2,090]

There was a mistake on the drawings showing wood base on part of the 2nd floor corridor. The rest of the corridor & all other corridors are vinyl base. The price above reflects the cost of labor & materials to trade the wood base for vinyl.

COR 050 AC-033 Bar Joist / MEP Coordination $ 1,617

Per AC 033 R2 bar joists supporting MEP openings had to be relocated due to upsizing of boilers & therefor boiler venting. The supports were originally sized for a smaller boiler vent size. The price above reflects the cost of labor & materials. This is work associated with but not included in previously approved COR 21 approved as part of CO 07.

COR 051 AC-064 - Static Pressure Sensor $ 822

Per AC 064 the contractor was directed to install a static duct pressure sensor for Exhaust Fan Air Handling Unit 01.There were previously not any provisions in the contract documents. The price above reflects cost of labor & materials for the addition.

COR 052 Additional FD Connection $ 2,280

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SADOWSKYARCHITECT.COM

Per Albany Fire Department request the contractor was directed to add an additional FD connection to the front of the building above & beyond code but for safety reasons. The price above reflects the cost of labor & material to install.

COR 056 Rollup Door vs. OHD **$ 5,510**

Per owner request the contractor was directed to install a powered & insulated rollup door in lieu of the manual insulated Over Head Door. The price above includes the net cost of the credit for the contract door & labor vs. added powered rollup door.

A·O·W ASSOCIATES INC.

30 Essex Street
Albany, NY 12206
Ph : (518)482-3400

Change Request

To: Ted Koch
Albany Housing Authority
200 SOUTH PEARL STREET
ALBANY, NY 12202
Ph: 518-641-7531 Fax: 518-641-7545
Source: Other # AC-

Number: COR 045 R1
Date: 1/21/19
Job: 15-00136 Ida Yarbrough Phase II

We are pleased to offer the following specifications and pricing to make the following changes:

Detailed Description

Labor, material, and equipment to install additional soffits ~~along with additional labor material and equipment to fix the drywall and taping at 12 sprinkler patches.~~

not included

Pricing Summary

West Winds Contracting		$	4,246.00
SRI Fire Sprinkler		$	-1,900.00
Subtotal:		$	2,346.00
General Conditions	6.00%	$	255.00
Insurance	1.40%	$	33.00
Bond	0.60%	$	14.00
Fee	6.00%	$	141.00
Total:		$	2,788.00

If you have any questions, please contact me at 518-482-3400.

Submitted by: Peter Oliver
AOW Associates, Inc

Approved by AOW ASSOCIATES , INC.:
Approved: _____
Date: 2/14/19

Approved by ARCHITECT:
Approved: _____
Date: _____

Approved by OWNER:
Approved: _____
Date: _____

dave sadowsky, architect, p.c. leed a.p.

ARCHITECT'S CLARIFICATIONS

 # 018
6/07/2018

PROJECT: **Ida Yarbrough Homes Redevelopment Phase 2**
252 North Pearl Street, Albany, NY 12210

OWNER: **Ida Yarbrough Phase II LLC**
c/o Albany Housing Authority
200 South Pearl Street, Albany, NY 12202

CONTRACTOR: **A. O. W. Associates, Inc.**
30 Essex Street, Albany, NY 12206

CONTRACT DATE: 2/27/2018

The Contract work shall be performed in accordance with the following Architect Clarifications. Contractor shall submit a Change Order Proposal in accordance with contract documents, for any associated changes in contract Sum or Contract time.

DESCRIPTION: **Building 2:**

Revised duct layouts to conform to revised structure.
Revised diffuser and furnace schedules.
Associated added soffits at ground floor

Revised electric panel locations at the ground floor units

PROJECT ARCHITECT:
Dave Sadowsky

Attachments : Revised B2-M0.0; B2-M1.1; B2-M1.2;
Revised B2-A1.2 (Reflected Ceiling plan)
Revised B2-E1.1, and E 1.2

Hesnor Engineering

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SADOWSKYARCHITECT.COM

GENERAL MECHANICAL NOTES:

1. CONTRACTOR(S) SHALL PROVIDE ALL ITEMS, SERVICES, EQUIPMENT, TOOLS, APPLIANCES, MATERIALS AND METHODS REQUIRED FOR COMPLETED SYSTEMS.
2. PROVIDE ALL LABOR, SCAFFOLDING, SUPERVISION AND INCIDENTALS REQUIRED TO VERIFY AND/OR INSTALL THE SYSTEMS COMPLETE.
3. CONTRACTOR(S) SHALL LOCATE AND PROTECT THE OWNER'S EQUIPMENT, PIPING AND UTILITIES SCHEDULED TO REMAIN FROM DAMAGE DURING CONSTRUCTION.
4. ALL WORK SHALL BE EXECUTED IN A THOROUGHLY SUBSTANTIAL AND CRAFTSMAN LIKE MANNER BY SKILLED MECHANICS IN THE VARIOUS TRADES INVOLVED. FOLLOW MANUFACTURERS' INSTRUCTIONS FOR INSTALLING CONNECTING AND ADJUSTING ALL EQUIPMENT.
5. CONTRACTOR(S) SHALL FIELD VERIFY ALL DIMENSIONS OF EXISTING ELEMENTS, EQUIPMENT, AND OTHER CONDITIONS HAVING A BEARING ON THE WORK CONTRACTOR(S) SHALL COORDINATE WITH OTHER TRADES TO ELIMINATE ANY INTERFERENCES WITH LIGHTING FIXTURES, ELECTRICAL, PLUMBING, ETC.
6. CONTRACTOR(S) SHALL PERFORM ALL VERIFICATIONS, DETERMINATIONS, TESTS, AND EXAMINATIONS OF THE WORK PRIOR TO THE ORDERING OF ANY EQUIPMENT AND THE ACTUAL CONSTRUCTION.
7. CONTRACTOR(S) SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER CONTRACT.
8. CONTRACTOR(S) SHALL FURNISH AND INSTALL ALL MATERIALS AS REQUIRED FOR COMPLETE SYSTEMS, INCLUDING ALL PARTS ORDINARILY OR REASONABLY INCIDENTAL TO A COMPLETE INSTALLATION, WHETHER SPECIFICALLY INDICATED OR NOT.
9. FOLLOW MANUFACTURERS' INSTRUCTIONS FOR INSTALLING, CONNECTING AND ADJUSTING ALL EQUIPMENT.
10. DRAWINGS ARE NOT TO BE SCALED. DRAWINGS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY.
11. DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED. CLEARANCE BETWEEN EQUIPMENT IS REQUIRED CLEARANCE. THEREFORE, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS. SHOULD THERE BE ANY DISCREPANCY REGARDING THE CONTRACT DOCUMENTS, EXISTING CONDITIONS AND/OR DESIGN INTENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE OWNER PRIOR TO PROCEEDING WITH THE WORK.
12. DETAILS ARE INTENDED TO SHOW END RESULT OF DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE CONSIDERED AS PART OF THE WORK.
13. DRAWINGS ARE DIAGRAMMATIC ONLY. FINAL ROUTING OF DUCTWORK AND EQUIPMENT LOCATIONS SHALL BE DETERMINED IN THE FIELD. ADDITIONAL OFFSETS, ELBOWS, ETC., SHALL BE PROVIDED AND INSTALLED WITHOUT ADDITIONAL COST TO THE OWNER.
14. THE MC SHALL FURNISH TO THE GC ALL INFORMATION REQUIRED FOR SETTING OF WALL, ROOF, AND FOUNDATION OPENINGS FOR MECHANICAL WORK. THIS INFORMATION SHALL BE FURNISHED IN A TIMELY MANNER SUCH THAT CONSTRUCTION SCHEDULE IS NOT JEOPARDIZED.
15. THE TEMPERATURE CONTROL CONTRACTOR SHALL COORDINATE THERMOSTAT/TEMPERATURE SENSOR LOCATIONS WITH ARCHITECTURAL PLANS AND/OR THE OWNER. THERMOSTATS SHALL BE INSTALLED APPROXIMATELY ABOVE FINISHED FLOORS UNLESS OTHERWISE NOTED.
16. ALL PIPING AND DUCTS IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN A FURRED CHASE OR ABOVE THE CEILING UNLESS NOTED OTHERWISE.
17. ACCESS PANELS IN CEILINGS AND WALLS ARE REQUIRED FOR ALL VALVES, TRAPS, DAMPERS, CLEANOUTS, CONTROLS, ETC. ACCESS PANELS SHALL BE FURNISHED BY THE MC FOR INSTALLATION BY THE GENERAL CONTRACTOR.
18. DUCTWORK SHOWN ON DRAWINGS FOR DUCTWORK ARE INSIDE CLEAR. FIELD VERIFY ALL DUCTWORK BEFORE FABRICATING DUCTWORK.
19. ALL DUCTWORK SHALL BE SEALED AND TESTED FOR LEAKS PRIOR TO CONCEALING WORK.
20. CONTRACTOR SHALL INSTALL ALL BALANCING DEVICES NECESSARY TO ACHIEVE PROPER ADJUSTING AND BALANCING OF MECHANICAL SYSTEMS.
21. PROVIDE FLEXIBLE CONNECTION AT ALL DUCTWORK CONNECTIONS TO ANY HANDLING EQUIPMENT.
22. INSTALL ALL DUCTWORK AND PIPING AS HIGH ABOVE FINISH FLOOR AS CONDITIONS PERMIT. FURNISH & INSTALL OFFSETS, FITTINGS, ETC., TO RECEIVE PIPING & DUCTWORK BETWEEN STRUCTURAL BEAMS WHERE NECESSARY.

APPLICABLE CODES:

- 2015 INTERNATIONAL MECHANICAL CODE
- 2015 INTERNATIONAL BUILDING CODE
- 2015 INTERNATIONAL ENERGY CONSERVATION CODE
- 2015 INTERNATIONAL FUEL GAS CODE
- 2014 NFPA NATIONAL ELECTRICAL CODE

BASIS OF DESIGN / OR-EQUAL PRODUCTS:

EQUIPMENT SHOWN ON THESE PLANS HAVE BEEN SELECTED AND SHOWN FOR DESIGN PLANNING PURPOSES. WHERE SPECIFIC EQUIPMENT VENDOR AND MODEL NUMBERS HAVE BEEN PROVIDED, CONTRACTOR MAY PROPOSE OR-EQUAL EQUIPMENT THAT MEETS THE INTENT OF THE DESIGN (PHYSICAL SIZE, CAPACITIES, PERFORMANCE, ETC.) EXCEPT WHERE SPECIFICALLY INDICATED OTHERWISE.

TYPICAL ABBREVIATIONS

AC	AIR CONDITIONING UNIT	HP	HORSEPOWER
AFF	ABOVE FINISH FLOOR	HV	HEATING AND VENTILATING UNIT
AFG	ABOVE FINISH GRADE	HTW	HIGH TEMPERATURE WATER
AHU	AIR HANDLING UNIT	HTWS	HIGH TEMPERATURE WATER SUPPLY
BOD	BOTTOM OF DUCT	HTWR	HIGH TEMPERATURE WATER RETURN
BOT	BOTTOM	LD	LINEAR CEILING DIFFUSER
CA	COMPRESSED AIR	LRD/MD	FLOWRATE FOR HOUR
CBV	CIRCUIT BALANCING VALVE	MW	MAKE-UP WATER
CO	CLEAN OUT	MAX.	MAXIMUM
CP	CONDENSATE PUMP	MIN.	MINIMUM
CU	CONDENSING UNIT	MBH	THOUSAND
CWH	CHARGE HEATER	OA	OUTDOOR AIR
DCHW	DEMISTED COLD WATER SUPPLY	P	PUMP
DHWS	DEMISTED HOT WATER SUPPLY	PRV	PRESSURE REDUCING VALVE
DHWR	DEMISTED HOT WATER RETURN	RA	RETURN AIR
DN	DOWN	RF	RETURN FAN
EA	EXHAUST AIR	RH	RELATIVE HUMIDITY
EDH	ELECTRIC DUCT HEATER	SAR	SUPPLY AND RETURN
EER	ENERGY EFFICIENCY RATIO	SA	SUPPLY AIR
EF	EXHAUST FAN	SD	SMOKE DAMPER
ERV	ENERGY RECOVERY VENTILATOR	SP	STATIC PRESSURE
ET	EXPANSION TANK	SUSP. SPC	SUSPENDED CEILING
EUH	ELECTRIC UNIT HEATER	UH	UNIT HEATER
EXIST.	EXISTING	UV	UNIT VENTILATOR
FC	FLEXIBLE CONNECTION	VD	VOLUME DAMPER
FCU	FAN COIL UNIT	VFD	VARIABLE FREQUENCY DRIVE
FL	FLOOR	S.C.	SUCTION CONDE
FD	FIRE DAMPER	TSOV	THREE WAY VALVE
FD/SD	COMBINATION FIRE/SMOKE DAMPER	N.C.	NORMALLY CLOSED
FPM	FEET PER MINUTE	N.O.	NORMALLY OPEN
HC	HEATING COIL		

MECHANICAL KEYED EQUIPMENT LEGEND:

- FURNACE
- EXHAUST FAN
- CONDENSING UNIT
- ELECTRIC BASEBOARD

MECHANICAL LEGEND:

- NEW DUCTWORK
- THERMOSTAT
- SUPPLY AIR DIFFUSER
- SUPPLY AIR REGISTER/GRILLE
- RETURN AIR REGISTER/GRILLE

DIFFUSER AND GRILLE SCHEDULE

TAG	MODEL No.	MANUF.	NECK SIZE	LENGTH	FACE SIZE	MOUNTING TYPE	MATERIAL	REMARKS
SD-1	4DG	2	12" x 2"	-	15" x 2-1/2"	SURFACE	STEEL	SEE NOTES
SD-2	4DG	2	12" x 2"	-	15" x 2-1/2"	SURFACE	STEEL	SEE NOTES
SD-3	610DV-0	1	6" x 6"	-	-	SURFACE	STEEL	SEE NOTES
SD-4	610DV-0	1	6" x 6"	-	-	SURFACE	STEEL	SEE NOTES
SG-1	612DV-0	1	8" x 4"	-	-	SURFACE	STEEL	SEE NOTES
SG-2	612DV-0	1	10" x 6"	-	-	SURFACE	STEEL	SEE NOTES
RG-1	1433H-0	1	12" x 8"	-	-	SURFACE	STEEL	SEE NOTES
RG-2	2433H-0	1	12" x 12"	-	-	SURFACE	STEEL	SEE NOTES
RG-3	3433H-0	1	16" x 12"	-	-	SURFACE	STEEL	SEE NOTES
RG-4	7433H-0	1	14" x 18"	-	-	SURFACE	STEEL	SEE NOTES
RG-5	6433H-0	1	24"x24"	-	-	SURFACE	STEEL	SEE NOTES

BASIS OF DESIGN: 1. MARTIN 2. HART & COOLEY

NOTES:

1. PROVIDE SPRINGS TO BREAK ADAPTOR WHERE REQUIRED.
2. PROVIDE PLENUM FRAME AS REQUIRED FOR SURFACE MOUNTING
3. MATCHED TO SELECT COLOR.
4. PROVIDE WITH INTEGRAL VOLUME DAMPER.

EXHAUST FAN SCHEDULE

TAG	MANUF.	MODEL	CFM	RPM	SP	HP	SYSTEM	REMARKS
EF-1	PANASONIC	FV-05-11VKS1	80L / 80H	-	0.25	1/6	120/1/60	SEE NOTES
EF-2	PANASONIC	FV-05-11VK1	60L / 80H	-	0.25	1/6	120/1/60	SEE NOTES
EF-3	PANASONIC	FV-05-11VKS1	30L / 80H	-	0.25	1/6	120/1/60	SEE NOTES

NOTES:

1. PROVIDE WITH:
   a. INTEGRAL BACKDRAFT DAMPER
   b. INTERNAL TRUSS-MOUNT
   c. SMART-ELECTRIC MOTION SENSOR (FV-MS01)
2. a. MULTI-SPEED WITH TIME DELAY
   b. OPERATE FAN CONTINUOUSLY AT LOW SPEED
   c. MOTION SENSOR SHALL ADJUST FAN TO HIGH RATED

ELECTRIC BASEBOARD SCHEDULE

TAG	MODEL	SIZE	ELECTRICAL WATTS	ELECTRICAL SYSTEM	REMARKS
EBB-1	CZ905-0236C	36-INCHES	500	120/1/60	SEE NOTES
EBB-2	CZ905-0124C	24-INCHES	375	120/1/60	SEE NOTES

BASIS OF DESIGN: MARMIN

NOTES:

1. MATCHED TO SELECT COLOR
2. PLENUM WITH INTERNAL THERMOSTAT

GAS-FIRED CONDENSING FURNACE W/ DX COOLING COIL SCHEDULE

TAG	MODEL No.	AIRFLOW SUPPLY (CFM)	EXT. S.P. (IN. W.C.)	COOLING COIL MODEL No.	COOLING COIL CAPACITY (TONS)	HEATING FUEL	HEATING INPUT (MBH)	HEATING OUTPUT (MBH)	ELECTRIC MCA	ELECTRIC SYSTEM	REMARKS
FURN-A	[illegible]	[illegible]	1.0	CNPUP	[illegible]	NAT. GAS	40	39	7.4	120/1/60	SEE NOTES
FURN-B	[illegible]	[illegible]	1.0	CNPUP	[illegible]	NAT. GAS	40	39	7.4	120/1/60	SEE NOTES
FURN-C	[illegible]	[illegible]	1.0	CNPUP	1.5	NAT. GAS	40	39	7.4	120/1/60	SEE NOTES
FURN-D	[illegible]	[illegible]	1.0	CNPUP	[illegible]	NAT. GAS	40	39	7.4	120/1/60	SEE NOTES
FURN-E	[illegible]	[illegible]	1.0	CNPUP	1.5	NAT. GAS	40	39	7.4	120/1/60	SEE NOTES
FURN-F	[illegible]	[illegible]	1.0	CNPUP	[illegible]	NAT. GAS	40	39	7.4	120/1/60	SEE NOTES
FURN-G	[illegible]	[illegible]	1.0	CNPUP	1.5	NAT. GAS	40	39	7.4	120/1/60	SEE NOTES
FURN-H	[illegible]	[illegible]	1.0	CNPUP	[illegible]	NAT. GAS	40	39	7.4	120/1/60	SEE NOTES
FURN-J	[illegible]	600	1.0	CNPUP	1.5	NAT. GAS	40	39	7.4	120/1/60	SEE NOTES
FURN-K	[illegible]	[illegible]	1.0	CNPUP	[illegible]	NAT. GAS	60	58	14.0	120/1/60	SEE NOTES

BASIS OF DESIGN: CARRIER

NOTES:

1. FURNISH WITH MICROPROCESSOR THERMOSTAT MODEL NO. TC-PAC01A, DISCONNECT SWITCH, ADJUSTABLE HIGH LIMIT, 4" FILTER RACK WITH MERVIN FILTER, STAINLESS STEEL HEAT EXCHANGER, MULTIPLUNG BURNER & HOT SURFACE IGNITION, COMBUSTION AIR & EXHAUST AIR PIPING SIZE AS RECOMMENDED BY MFGR. AND 5 YEAR WARRANTY. FOLLOW MFG WRITTEN INSTALLATION INSTRUCTION.
2. INSTALL FURNACES LOCATED ON SECOND FLOOR (FURN - K, H, F, D, B) IN DOWNFLOW ORIENTATION PROVIDE WITH SUSPENDED KIT MODEL NO. KSAB0301ALL.
3. INSTALL FURNACES LOCATED ON GARDEN LEVEL (FURN - J, G, E, C, A) IN UPFLOW ORIENTATION. PROVIDE WITH INTERPOSER - (TB-1) FURNACE MOUNTING BLOCKS.

REVISIONS:

1. 05-11-18 MISCELLANEOUS REMARKS

CONDENSING UNIT SCHEDULE

TAG	MODEL No.	SERVICE	CAPACITY (TONS)	REFRIG.	WEIGHT (LBS)	SEER	ELECTRIC MCA	ELECTRIC SYSTEM	REMARKS
CU-A	[illegible]	FURN-A	[illegible]	R-410A	[illegible]	18	[illegible]	208/1/60	
CU-B	[illegible]	FURN-B	[illegible]	R-410A	[illegible]	18	[illegible]	208/1/60	
CU-C	24ABC618	FURN-C	1.5	R-410A	155	18	11.8	208/1/60	
CU-D	[illegible]	FURN-D	[illegible]	R-410A	[illegible]	18	[illegible]	208/1/60	
CU-E	24ABC618	FURN-E	1.5	R-410A	155	18	11.8	208/1/60	
CU-F	[illegible]	FURN-F	[illegible]	R-410A	[illegible]	18	[illegible]	208/1/60	
CU-G	24ABC618	FURN-G	1.5	R-410A	155	18	11.8	208/1/60	
CU-H	[illegible]	FURN-H	[illegible]	R-410A	[illegible]	18	[illegible]	208/1/60	
CU-J	24ABC618	FURN-J	1.5	R-410A	155	18	11.8	208/1/60	
CU-K	[illegible]	FURN-K	[illegible]	R-410A	[illegible]	18	[illegible]	208/1/60	

- ALL FURNACES SHALL BE 1.5-TON UNIT

KEY PLAN

HESNOR

dave sadowsky, architect, p.c.
socially conscious sustainable design / sadowskyarchitect.com

IDA YARBROUGH HOMES REDEVELOPMENT- Phase2
P.O.C. - 252 North Pearl St, Albany, NY 12210

NOTES, LEGENDS & SCHEDULES
BUILDING 2
Construction Documents

DATE: 03/31/2017
DRAWN BY: LF
JOB #17-03
SCALE: NTS
DRAWING #:
B2-M0.0

TYPICAL 3 BEDROOM

TYPICAL 3 BEDROOM (INTERIOR)

TYPICAL 3 BEDROOM (EXTERIOR)

KEYED NOTES:

THIS SHEET

A – TERMINATE EXHAUST WITH WALL CAP MODEL R641 (BY BROAN). TRANSITION DUCTWORK AS REQUIRED. TERMINATION SHALL BE A MINIMUM OF 3-FEET FR ANY OPERABLE WINDOW. FIELD DETERMINE EXACT LOCATION.

B – CLOTHES DRYER EXHAUST VENT:
- DUCT SHALL BE CONSTRUCTED OF MIN. 26 GAGE RIGID METAL HAVING SMOOTH INTERIOR SURFACES WITH JOINTS RUNNING IN THE DIRECTION OF AIRFLOW. SHALL NOT BE CONNECTED WITH SHEET-METAL SCREWS OR FASTENING DEVICES WHICH EXTEND INTO THE DUCT.
- TERMINATE WITH BROAN WALL CAP MODEL MCW50 WITH ALUMINUM PIPE AND DAMPER. CAP SHALL BE PRIMED AND PAINTED ARCHITECT SHALL SELECT COLOR.

C – EXTEND 10"x4" GA FROM RGH OF RANGE HOOD. INSTALL VERTICAL DUCTWORK IN WALL CAVITY. DUCTWORK SHALL BE 26-GAGE WITH SMOOTH INNER WALLS.
- TERMINATE EXHAUST OUTDOORS WITH WALL CAP (BROAN E30 OR EQUAL). ARCHITECT SHALL REVIEW FOR TRANSITION DUCTWORK TO WALL CAP CONNECTION AS REQUIRED.
- EXHAUST OUTLET SHALL BE LOCATED NO LESS THAN 3-FEET FROM ANY OPERABLE OPENING WITH BUILDING. FIELD DETERMINE EXACT LOCATION.

D – 5A DIP TO FLOOR GRILLE ABOVE

E – TERMINATE EXHAUST WITH ROOF CAP MODEL R641CM (BY BROAN) PROVIDE WITH ROOF GUARD, SELF-FLASHING, ALUM. W/ INSULATION, 12" H. TRANSITION DUCTWORK AS REQUIRED. GUARD SHALL MATCH SLOPE OF ROOF TO ALLOW FOR 10 SF LEVEL.
- INSULATE DUCTWORK IN ATTIC AREA WITH R-8 OR BETTER

F – EMPTY

G – FURNACE SHALL BE CERTIFIED WITH BOTTOM SUPPLY, TOP RETURN

NOTES:

1. DUCT SEALING:
   A. ALL DUCT SYSTEMS SHALL BE THOROUGHLY SEALED
   B. MASTIC OR OTHER UL-181 COMPLIANT MATERIAL SHALL BE APPLIED WITHIN TEMPERATURE RANGE AND ACCORDING TO ALL OTHER MANUFACTURER REQUIREMENTS AT ALL TRANSVERSE JOINTS AND TAKE OFFS.
   C. ALL DUCT LONGITUDINAL SEAMS SHALL BE SEALED WITH MASTIC OR OTHER UL-181 COMPLIANT MATERIAL.
   D. GAPS BETWEEN TAKE-OFF BOXES AND GYPSUM BOARDS SHALL BE EFFECTIVELY SEALED.
   E. SEE SECTION 23 21 13 AND 23 33 00 FOR ADDITIONAL INFORMATION

REVISIONS:

△ 05-11-18 MISCELLANEOUS REVISIONS
NEW DRAWING ISSUED

HESNOR

dave sadowsky, architect, p.c.
socially conscious sustainable design / sadowskyarchitect.com

IDA YARBROUGH HOMES REDEVELOPMENT- Phase2
P.O.C. - 252 North Pearl St, Albany, NY 12210

MECHANICAL PLANS
Construction Documents
BUILDING 2

DATE: 10/31/2017
DRAWN BY: LF
JOB #: 17-03
SCALE: 1/4"=1'-0"
DRAWING #:
B2-M1.1

TYPICAL 2 BEDROOM (FULLY ACCESSIBLE)

SHOWN: UNIT J
MIRRORED UNIT A

1/4" = 1'-0"

TYPICAL 2 BEDROOM (VISITABLE)

SHOWN: UNIT G, E
MIRRORED UNIT C

1/4" = 1'-0"

WATER SERVICE ENTRANCE PLAN

1/4" = 1'-0"

NOTE:
THERE IS A FIRE RATED SYSTEM BETWEEN THE GARDEN LEVEL AND FIRST FLOOR. ALL ELECTRICAL SHALL BE INSTALLED BELOW THE FIRE RATED CEILING AND CONCEALED ABOVE UNFINISHED CEILING.

KEYED NOTES:

THIS SHEET

A – TERMINATE EXHAUST WITH WALL CAP MODEL #541 (BY DUCAN). TERMINATION SHALL BE A MINIMUM OF 3-FEET FM ANY OPENABLE WINDOW. FIELD DETERMINE EXACT LOCATION

B – CLOTHES DRYER EXHAUST VENT:
- DUCT SHALL BE CONSTRUCTED OF NOT LESS THAN 28 GAUGE HIGH GRADE SMOOTH INTERIOR SURFACED WITH JOINTS ALIGNED IN THE DIRECTION OF AIRFLOW. SHALL NOT BE CONNECTED WITH SHEET-METAL SCREWS OR FASTENING WEARS WHICH EXTEND INTO THE DUCT.
- TERMINATE WITH DUCAN WALL CAP MODEL WL150 WITH ALUMINUM PIPE AND COLLAR. CAP SHALL BE PRIMED AND PAINTED. INSTALLER SHALL SELECT COLOR

C – EXTEND 10"x4" EA FROM HEAD OF RANGE HOOD. INSTALL VERTICAL SECTION IN WALL CAVITY. SECTIONS SHALL BE 26-GAUGE WITH SMOOTH INNER WALLS. ALL EXTERIOR DUCT SHALL BE STAINLESS STEEL.
- TERMINATE EXHAUST INLET WITH UNIVERSAL GRAVITY TRANSITION ELECTRICAL AS REQUIRED.
- EXHAUST OUTLET SHALL BE LOCATED NO LESS THAN 3-FEET FROM ANY OPENABLE OPENING AND DOORWAYS. FIELD DETERMINE EXACT LOCATION

D – 5A UP TO FLOOR GRILLE ABOVE

E – DUCTED

F – VENT SHALL TERMINATE:
- AT LEAST 4 FT. HORIZONTALLY FROM OR 1 FOOT ABOVE ANY OPENABLE WINDOW
- AT LEAST 4 FEET BELOW ANY OPENABLE WINDOW. FIELD DETERMINE EXACT LOCATION

NOTES:

1. DUCT WORK:
   A. ALL DUCT SYSTEMS SHALL BE THOROUGHLY SEALED.
   B. MASTIC OR OTHER UL-181 COMPLIANT MATERIAL SHALL BE APPLIED WITH PENETRATIVE BRUSH AND ACCORDING TO ALL OTHER MANUFACTURER REQUIREMENTS AT ALL TRANSVERSE JOINTS AND TAPE SEAMS.
   C. ALL DUCT TRANSITIONAL JOINTS SHALL BE SEALED WITH MASTIC OR OTHER UL-181 COMPLIANT MATERIAL.
   D. GAPS BETWEEN TRANSVERSE DUCTS AND DIFFUSER FRAMES SHALL BE EFFECTIVELY SEALED.
   E. SEE SECTION 23 31 13 AND 23 33 00 FOR ADDITIONAL INFORMATION

AIR-COOLED CONDENSER SUPPORT DETAIL

N.T.S.

NOTES:
1. ALL REFRIGERANT PIPING SHALL CONFORM TO ASHRAE 15.
   a. TYPE COPPER TUBING CONFORMING TO ASTM SPECIFICATIONS FOR REFRIGERANT PIPING.
   b. FITTINGS SHALL BE CONNECTED BY BRAZED JOINTS.
   c. INSULATE BOTH SUCTION AND LIQUID LINES.
   d. UNIT MANUFR OF ENCS FOR EAV TO (N) EOS

REFRIGERANT LINE PENETRATION DETAIL

N.T.S.

ROOF PLAN

1/8" = 1'-0"

REVISIONS:

△ 06-11-18 MISCELLANEOUS REVISIONS

HESNOR
MECHANICAL ENGINEERS

dave sadowsky, architect, p.c.
socially conscious sustainable design / sadowskyarchitect.com

IDA YARBROUGH HOMES REDEVELOPMENT- Phase2
P.O.C. - 252 North Pearl St. Albany, NY 12210

MECHANICAL PLANS
Construction Documents
BUILDING 2

DATED/31/2017
DRAWN BYF
JOB #ET-03
SCALE AS NOTED
DRAWING #:
B2-M1.2

IY2-BUILDING 2-2ND FLOOR, REFLECTED CEILING PLAN

IY2-BUILDING 2- 1ST FLOOR REFLECTED CEILING PLAN

IY2- BUILDING 2- G FLOOR, REFLECTED CEILING PLANS

AC 018 G7718

GENERAL NOTES

GARDEN LEVEL CEILING

1ST FLOOR CEILING

2ND FLOOR CEILING

1 HR FIRE RATED FLR/ CLG ASSEMBLY

SUSPENDED DRYWALL GRID SYSTEM

SUSPENDED DRYWALL GRID SYSTEM

NON-RATED FLOOR CEILING

SMALL GYPSUM SOFFIT

SMALL GYPSUM SOFFIT

ROOF-CEILING ASSEMBLY

SOFFIT AT SUSPENDED CEILING

SOFFIT AT SUSPENDED CEILING

SMOKE CURTAIN

SMOKE CURTAIN

*dimensions take precedence over scale
*contractor to field verify all conditions and dimensions and is responsible for same
*contractor shall assume the presence of lead, due to age of building, and shall comply with all applicable regulations and owner's hazmat specialized consultant

dave sadowsky, architect, p.c.
97 mason road, petersburgh new york 12138
"socially conscious design" (518)658-2830
dave@sadowskyarchitect.com

IDA YARBROUGH HOMES REDEVELOPMENT- Phase2
P.O.C. - 252 North Pearl St, Albany, NY 12210

IY2-BUILDING 2-REFLECTED CLG PLNS
Construction Documents

DATE:10/31/17
DRAWN BY: PSH
JOB #: 17-03
SCALE: AS NOTED
DRAWING #:
B2-A1.2

TYPICAL 5 BEDROOM

SHOWN: UNIT F

TYPICAL 3 BEDROOM (INTERIOR)

SHOWN: UNIT H, D

TYPICAL 3 BEDROOM (EXTERIOR)

SHOWN: UNIT D

HVI 3 BEDROOM (INTERIOR)

SHOWN: UNIT F

KEYED NOTES: THIS SHEET

ABBREVIATIONS:

DW-DISHWASHER, LOCATED BELOW COUNTER
DRY-DRYER OUTLET
REF-REFRIGERATOR OUTLET
GFI-GROUND FAULT INTERRUPTER
AC-AIRON CONNECT
GD-GARBAGE DISPOSAL OUTLET, LOCATED BELOW COUNTER
HO-HOOD ABOVE STOVE

REVISIONS:

1 06-05-18 PANEL REVISIONS

HESNOR

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socially conscious sustainable design / sadowskyarchitect.com

IDA YARBROUGH HOMES REDEVELOPMENT– Phase2
P.O.C. – 252 North Pearl St, Albany, NY 12210

ELECTRICAL PLANS

Construction Documents

BUILDING 2

DATE: 10/31/2017
DRAWN BY: DB
JOB #: 17-03
SCALE: 1/4"=1'-0"
DRAWING #:

B2–E1.1

TYPICAL 2 BEDROOM (FULLY ACCESSIBLE)

1/4" = 1'-0"

TYPICAL 2 BEDROOM (VISITABLE)

1/4" = 1'-0"

EXTERIOR LIGHTING PLAN

NOTES:

EXTERIOR WALL PACK LIGHT FIXTURES SHALL BE INSTALLED 10' OF FINISH FINISHED GRADE

ELECTRICAL METERS LOCATION PLAN

1/4" = 1'-0"

KEYED NOTES: THIS SHEET

ALL SITE LIGHTING EQUIPMENT (FIXTURES, POLES, ETC) SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR AND WIRED BY THIS PACKAGE. CONCRETE POLE BASES (FOUNDATION AND BACK FILL) SHALL BE PROVIDED BY MECHANICAL CONTRACTOR.

- ALL EXTERIOR LIGHTING SHALL BE CONTROLLED BY ONE PROGRAMMABLE LIGHTING PANEL. TWO 2 POLE RELAYS ARE SECURE IN LIGHTING (ATTIC HOMES) AND TWO 2 POLE RELAYS FOR EXTERIOR LIGHTING (PEAK PURPOSES ONLY).
- PROVIDE LIGHTING CONTROL PANEL WITH 8 RELAYS AND TIME CLOCK (1) WATTS TOPPER LPE PEAKUT CONTROL PANELS OR EQUAL. PROVIDE PHOTOCELL WITH CONTROL WIRING FOR INPUT TO LPE1. FIELD COORDINATE PROGRAMMING FOR LIGHTING RELAY PANEL WITH OWNER NOW DUSK TO OFF HOURS AND PEAK SHORT TIME USE.
- E.C. SHALL PROVIDE SITE LIGHTING FOUNDATION AND POWER WIRING IN ACCORDANCE BASED ON LOCATIONS AND SCHEDULE SHOWN ON CIVIL PLAN CODE THIS CODE 2012 THRU 2013. PROVIDE THREE SEPARATE PROGRAMMABLE TIMER CIRCUITS AS FOLLOWS (1) SITE POLES (2) CANOPY/POLE LIGHTS AND WALL PACKS (3) EXTERIOR WALL MOUNTED LIGHTS. PROVIDE POLE TYPE WATER WELL PROVIDED BELOW GRADE COMPLETE WITH FOUNDATION AND LANDSCAPE WITH PLANTS AROUND.

ROOF PLAN

1/8" = 1'-0"

KEYED NOTES: THIS SHEET

ABBREVIATIONS:

DW-DISHWASHER LOCATED BELOW COUNTER
DO-DRYER OUTLET
RFR-REFRIGERATOR OUTLET
GFI-GROUND FAULT INTERRUPTER
AC-ABOVE COUNTER
GO-GARBAGE DISPOSAL OUTLET LOCATED BELOW COUNTER
HO-HOOD HOOD STOVE

REVISIONS:

1 06-08-18 PANEL LOCATION REVISIONS

HESNOR

dave sadowsky, architect, p.c.
socially conscious sustainable design / sadowskyarchitect.com

IDA YARBROUGH HOMES REDEVELOPMENT– Phase2
P.O.C. – 252 North Pearl St, Albany, NY 12210

ELECTRICAL PLANS
Construction Documents
BUILDING 2

DATE: 10/31/2017
DRAWN BY: DB
JOB #: 17-03
SCALE: AS NOTED
DRAWING #:
B2-E1.2

18

QUOTE 12/18/2018

P: 518-864-2039
j.daignault.westwinds@gmail.com

West-Winds Contracting Inc.
9210 Mariaville Road
Pattersonville, NY 12137

Quoted By: J. Daignault

Project Name:	Ida Yarbrough Phase 2
Project ID:	17-03
Project Address:	252 North Pearl Street
	Albany, NY 12210
Architect:	Dave Sadowsky

AC-18 BLDG 2 Duct - El Panel Revisions

Provide labor, material, and equipment to install additional soffits at the Garden Level and 1st Floor of BLDG 2. Some soffits were deleted from the base bid. This pricing is based on the actual soffits installed versus the base bid.

Description	QTY	Price Each	Price Total
ADDS			
Carpenter	22 hrs	$ 69.49	$ 1,528.78
Taper	11 hrs	$ 57.78	$ 635.58
Material	500 sf	$ 1.35	$ 675.00
DELETES			
Carpenter	-6 hrs	$ 69.49	$ (416.94)
Taper	-3 hrs	$ 57.78	$ (173.34)
Material	-140 sf	$ 1.35	$ (189.00)

Subtotal	$	2,060.08
Markup 10%	$	206.01
Grand Total	$	**2,266.09**

18

QUOTE 12/13/2018

P: 518-864-2039
j.daignault.westwinds@gmail.com

West-Winds Contracting Inc.
9210 Marlaville Road
Pattersonville, NY 12137

Quoted By: J. Daignault

Project Name:	Ida Yarbrough Phase 2
Project ID:	17-03
Project Address:	252 North Pearl Street
	Albany, NY 12210
Architect:	Dave Sadowsky

-18
AC, change of soffits due to duct work.

BLDG 2 - Sprinkler Patches

Ok to pay.

Provide labor, material, and equipment to fix the drywall and taping at 12 sprinkler patches.

Description	QTY	Price Each	Price Total
Sprinkler Patches	12	$ 150.00	$ 1,800.00
			$ -
			$ -
			$ -

Subtotal	$	1,800.00
Markup 10%	$	180.00
Grand Total	$	1,980.00

Paid for by SRI - Not by Owner

A·O·W ASSOCIATES INC.

30 Essex Street
Albany, NY 12206
Ph : (518)482-3400

Change Request

To: Dave Sadowsky
Dave Sadowsky, Architect P.C.
97 Maxon Road
Petersburgh, NY 12138
Ph: 518-658-2830

Number: COR 025R
Date: 11/6/18
Job: 15-00136 Ida Yarbrough Phase II

We are pleased to offer the following specifications and pricing to make the following changes:

Detailed Description

Revise Mid Rise lighting as per AC-41. Modify fire protection system as required by changes.

Fire Alarm Modifications from RFI 51 issued under separate COR.

Pricing Summary

Carey Electric		$ -57,350.00
	Subtotal:	$ -57,350.00
	Total:	$ -57,350.00

If you have any questions, please contact me at 518-482-3400.

Submitted by: Peter Oliver
AOW Associates, Inc

Approved by AOW ASSOCIATES, INC.:	Approved by ARCHITECT:	Approved by OWNER:
Approved: _____	Approved: _____	Approved: _____
Date: _____	Date: _____	Date: _____

Change Order

AC#41 MR Misc Elec Changes

Carey Electric, Inc.
11 Cannon St
Green Island, NY 12183
Phone: 518-283-5431 ext. 2

AOW Assoc
30 Essex St
Albany, NY 12206

19 December 2018
Job ID: BN18-0030 MR
Albany NY

Attention: Peter Oliver

Re: Change Order AC#41 for: Ida Yarbrough MR

We are pleased to quote on the above Change Order AC#41 as follows.
1. Based on AC#41 11/8/18 Revision lighting changes
2. FA Changes shown in this AC were made under previous RFI#51 submission and not included in this AC.
3. Lighting fixture release is based on approval of this AC since quantities are affected.

We reserve the right to correct this quote for errors and or omissions. All wiring to meet the requirements of the latest adopted National Electrical Code by the AHJ for this project.

Bid Items	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6
DIRECT LABOR HRS	-9.56					
DIRECT LABOR DOLLARS		-786.50				
MATERIAL DOLLARS		-132.26				
QUOTE DOLLARS		-56,431.68				

Change Order Amount: -$57,350.44

Change Order

AC#41 MR Misc Elec Changes

Carey Electric, Inc.
11 Cannon St
Green Island, NY 12183
Phone: 518-283-5431 ext. 2

Pricing:

Qty	Description	Unit	Ext
1	**FIXTURES	-56431.6779	-56,431.68
-358	FIXTURE TYPE B	28.7825	-10,304.13
358	FIXTURE TYPE CF1	28.7825	10,304.13
-20	3/4 EMT	2.9526	-59.05
-2	3/4 EMT STEEL SS CONNECTOR	3.6445	-7.29
-2	3/4 PLASTIC BUSHING	3.4652	-6.93
-2	3/4 EMT NM TERMINATOR	3.3606	-6.72
-900	12 THHN/THWN CU (STR)	0.4454	-400.85
-8	12/2 MC CABLE - ALUM JKT W/G	1.4613	-11.69
-1	#12 SOL 8" PIGTAIL W/GRD SCR	4.4268	-4.43
3	18-12 PSH-IN 4-WIRE CONN	2.5704	7.71
6	LED RECESSED ROUND HI-HAT FIXT	20.5589	123.35
-5	LED PENDANT MOUNT FIXTURE	82.2357	-411.18
-2	2-1/8"D 4"SQ CMB-KO NO BRKT	11.2930	-22.59
-2	2-1/8"D 4"SQ MS BRKT BX/MC	15.8683	-31.74
-2	5/8"RISE 4.8-CI 1G 4"SQ	4.7286	-9.46
-2	4"SQ BLANK COVER	2.8529	-5.71
1	2-1/8"D 21.5-CI 4" OCTAGON	7.6621	7.66
-28	#10 x 1 1/4" TEK SCREW	1.4739	-41.27
2	11" TIE-WRAP	1.6947	3.39
1	24" T-BAR BOX HANGER	3.9521	3.95
-4	3/4 EMT 1-HOLE STEEL STRAP	2.6840	-10.74
-4	1/2&3/4 EMT & AC/MC AC/EMT TO	2.9070	-11.63
-6	TSGB16 STUD BRACKET ADJ 11 TO	3.9287	-23.57

For the Sum of $-57,350.44

Breakout/Unit Pricing:

The Change Order expires on 1/07/19. Midrise lighting fixtures are on hold for release until approved since it affects a number of quantities of various types that are in both buildings.

We request an additional 0 days be added to the completion date of the project.

Sincerely,

Daniel Terry
Carey Electric, Inc.

Quotation

GMES ALBANY
875 BROADWAY
ALBANY, NY 12207
518-273-6512

BID DATE	QUOTE NUMBER
11/30/2018	S3237082

	PAGE NO.
GMES ALBANY 875 BROADWAY ALBANY, NY 12207 518-273-6512	1 of 1

QUOTE TO:

CAREY ELECTRIC
PO BOX 325
WYNANTSKILL, NY 12198

SHIP TO:

CAREY ELECTRIC, INC-IDA
254 N. PEARL ST.
ALBANY, NY 12210

CUSTOMER NUMBER	CUSTOMER PO NUMBER	JOB NAME / RELEASE NUMBER	ORDERED BY
57465	IDA AC41		

WRITER	SHIP VIA	TERMS	SHIP DATE	
Mike Harper		NET 10TH DUE 10TH	11/30/2018	

ORDER QTY	DESCRIPTION	UNIT PRICE	EXT PRICE
11ea	JUNO 6RLS G2 07LM 30K 90CRI 120 FRPC WH TYPE B	11.460/ea	126.06
4ea	JUNO 6RLS G2 07LM 30K 90CRI 120 FRPC WH TYPE BEM	11.460/ea	45.84
358ea	SEAGULL 7543493S-962 TYPE CF1	57.290/ea	20509.82
-5ea	BEGA 56 590.3 TYPE PEM	222.000/ea	-1110.00
-358ea	LIGHTWAY PLPC 12 LED U 13W 2 T6 WSA DIMLD TYPE F	212.300/ea	-76003.40

Prices are subject to change without notice
Applicable Taxes not included
All sales are subject to GMES Terms and Conditions.
See website www.gmes.com for a copy of our Terms and Conditions.

Subtotal	-56431.68
S&H Charges	0.00
Amount Due	-56431.68

Printed By: MIKEH on 12/5/2018 8:22:37 AM

Revised 12/20/18 : shower lights to remain per original (see page 10)

revised 11/8/18

dave sadowsky, architect, p.c. leed a.p.

ARCHITECT'S CLARIFICATIONS

#041
9/18/2018

PROJECT: **Ida Yarbrough Homes Redevelopment Phase 2**
252 North Pearl Street, Albany, NY 12210

OWNER: **Ida Yarbrough Phase II LLC**
c/o Albany Housing Authority
200 South Pearl Street, Albany, NY 12202

CONTRACTOR: **A. O. W. Associates, Inc.**
30 Essex Street, Albany, NY 12206

CONTRACT DATE: 2/27/2018

The Contract work shall be performed in accordance with the following Architect Clarifications. Contractor shall submit a Change Order Proposal in accordance with contract documents, for any associated changes in contract Sum or Contract time.

DESCRIPTION: **Midrise – Misc. Electrical Changes (includes all previous changes)**

Summary of Adds and Credits:
-Add light fixture "B" in common areas = (11) fixtures
-Add light fixture "B-EM" in common areas = (4) fixtures
-Add CATV and Data in Community Rm = (1) location
~~-Add light fixture "F" in unit Living Rooms = (105) fixtures~~
-Delete light fixture "P-EM" in common areas = (5) fixtures
~~-Delete light fixture "B" in common areas and unit Living Rooms = (343) fixtures~~

Also see attached electrical plans for various additional changes (ex: relocating light fixtures, deleting contradicting notes, etc). All new changes shown in RED.

Lastly, attached electrical plans reflect all electrical changes made in previous AC's, RFI's and Addenda. All previous changes shown in PURPLE

ATTACHMENTS: **Marked-up Electrical Contract Drawings**

Change designated type "F" fixtures to "CS1"= (358) fixtures see page 10.

PROJECT ARCHITECT:

Susan (Suvi) Lomonaco, R.A., LEED B, D+C
Dave Sadowsky, Architect, P.C.

97Maxon Rd • Petersburgh, NY. 12138 • Phone (518) 658-2830 • Fax (518) 658-2863 • dave@sadowskyarchitect.com
SADOWSKYARCHITECT.COM

GENERAL ELECTRICAL NOTES:

1. ALL ELECTRICAL WORK SHALL CONFORM WITH NATIONAL FIRE PROTECTION ASSOCIATION, NATIONAL ELECTRICAL CODE (NEC), AND APPLICABLE FEDERAL, STATE AND LOCAL CODES. EC SHALL SECURE PERMITS AND PAY THE FEES REQUIRED TO CARRY OUT HIS WORK. THE PROJECT SHALL CONFORM WITH 2012 INTERNATIONAL CODES AND SPECIFICALLY IECC-2014, IL 2015, IECC-2015 IN ADDITION TO NYS CODES LINE CHECED. THIS INCLUDES CARBON MONOXIDE DETECTION (CO) PER EMERGENCY REGULATION NYS 1228.4 DATED JUNE 27, 2013.
2. EC SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER CONTRACT.
3. THE DRAWINGS AND SPECIFICATIONS INDICATE THE INTENT OF THE DESIGN AND SHALL BE CONSIDERED AS DIAGRAMATIC ONLY. EXACT LOCATIONS FOR OUTLETS AND EQUIPMENT SHALL BE DETERMINED AT THE SITE. AS WORK PROGRESSES, DIMENSIONS AND CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE. FINAL WORK SHALL BE DOCUMENTED ON AS BUILT RECORD DRAWINGS.
4. PIPING, CONDUITS AND EQUIPMENT OF ALL TRADES SHALL BE PROPERLY COORDINATED AND SET TO MAINTAIN THE CLEARANCES REQUIRED BY APPLICABLE FEDERAL, STATE, AND LOCAL CODES.
5. CONDUIT RUNS CROSSING EXPANSION JOINTS SHALL HAVE EXPANSION OR EXPANSION DEFLECTION TYPE FITTINGS, AS REQUIRED VERIFY EXISTING JOINTS BY FIELD MEASUREMENTS.
6. RACEWAYS AND CABLE SHALL BE RUN CONCEALED IN FINISHED SPACES UNLESS OTHERWISE NOTED.
7. SERVICE EQUIPMENT AND LOAD CENTERS, SHALL BE PROVIDED WITH DEDICATED WORK SPACE. THE HEIGHT OF THE WORK SPACE SHALL EXTEND FROM FLOOR TO A HEIGHT 6'-0" ON TO THE HEIGHT OF THE NEW EQUIPMENT, WHICHEVER IS GREATER. THE WIDTH OF THE WORKING SPACE SHALL BE THE WIDTH OF THE ELECTRICAL EQUIPMENT OR 30", WHICHEVER IS GREATER IN ALL CASES. WORK SPACE SHALL ALLOW AT LEAST A 90 DEGREE OPENING OF EQUIPMENT DOORS OR HINGED PANELS.
8. SERVICE EQUIPMENT AND LOAD CENTERS SHALL BE LOCATED IN DEDICATED SPACES AND PROTECTED FROM DAMAGE. THE DEDICATED ELECTRICAL SPACE SHALL BE EQUAL TO THE WIDTH AND DEPTH OF THE EQUIPMENT AND EXTENDING FROM THE FLOOR OR A HEIGHT OF 6'-0" ABOVE THE EQUIPMENT OR TO THE STRUCTURAL CEILING, WHICHEVER IS LOWER. NO PIPING, DUCTS, OR EQUIPMENT FOREIGN TO THE ELECTRICAL EQUIPMENT OR ARCHITECTURAL APPURTENANCES SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THROUGH SUCH SPACE.
9. WIRING DEVICES SHALL BE MOUNTED IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE ARCHITECTURAL BARRIERS BOARD.
10. PANELBOARD SHALL BE MOUNTED SO THAT THE DISTANCE FROM THE TOP CIRCUIT BREAKER OPERATING HANDLE TO THE FLOOR SHALL NOT EXCEED 6'-0".
11. ALL RECEPTACLES INSTALLED IN UNFINISHED AREAS SHALL BE GFI TYPE, MOUNTED 4'-0" ABOVE FINISHED FLOOR.
12. ALL BRANCH CIRCUITS (LIGHTING AND POWER) SHALL HAVE A DEDICATED NEUTRAL CONDUCTOR. COMMON OR SHARING OF NEUTRALS WILL NOT BE ALLOWED. NO MORE THAN (3) CIRCUITS (OR CIRCUIT CARRYING CONDUCTORS) SHALL BE RUN IN A SINGLE CONDUIT.
13. RECEPTACLES, SWITCHES, LIGHTING FIXTURES, SMOKE ALARMS, ETC. INDICATE QUANTITY. EXACT LOCATIONS OF DEVICES SHALL BE DETERMINED IN THE FIELD AND COORDINATED WITH ARCHITECTURAL DRAWINGS.
14. A STANDARD SYMBOL LIST IS SHOWN. ALL DEVICE SYMBOLS AND ABBREVIATIONS MAY NOT NECESSARILY APPEAR ON THE FLOOR PLANS OR DETAIL SHEET. ONLY THOSE SYMBOLS INDICATED ON THE FLOOR PLANS ARE USED AND OTHERS SHOULD BE DISREGARDED.
15. MOUNTING HEIGHTS SHALL BE AS INDICATED ON MOUNTING HEIGHT DETAIL.
16. CONTRACTOR SHALL VERIFY ALL DOOR SWINGS BEFORE INSTALLING SWITCH BOXES.
17. FOR EXACT LOCATION OF LIGHTING FIXTURES, SEE REFLECTED CEILING PLAN DRAWINGS. FOR MOUNTING HEIGHT OF UNDER CABINET LIGHTING FIXTURES AND OTHER TASK LIGHTING, REFER TO ARCHITECTURAL ELEVATION DRAWINGS.
18. ELECTRICAL CONTRACTOR IS TO COORDINATE THE EXACT LOCATION OF LIGHTING FIXTURES IN MECHANICAL AND STORAGE AREAS WITH OTHER TRADES.
19. FOR EXACT LOCATION OF MECHANICAL EQUIPMENT, (AC UNITS, FANS, PUMPS, ETC.) REFER TO RESPECTIVE TRADES DRAWINGS.
20. FURNISH GROUNDING/BONDING BUSHINGS ON EMTO ALL CONDUIT ENTERING/LEAVING BOXES.
21. ALL GROUND CONDUCTORS SHALL BE GREEN, ISOLATED GROUND CONDUCTORS SHALL BE GREEN/YELLOW STRIPPED, AND NEUTRAL CONDUCTORS SHALL BE WHITE.
22. ALL DATA AND CATV CABLING SHALL BE IN THIS CONTRACT. ELECTRICAL DRAWINGS INDICATE CABLING AND BACKBOX SYSTEMS BACK TO BASEMENT SERVICE ENTRANCE.

FIRE ALARM NOTES:

1. ALL WORK SHALL BE INSTALLED IN FULL ACCORDANCE WITH LOCAL, STATE & FEDERAL CODES, STATE AND LOCAL AUTHORITIES (IRRESPECTIVE OF THE FIRE ALARM DEVICES SHOWN ON THE DRAWINGS). FILE ALL PLANS, OBTAIN ALL PERMITS, PAY ALL FEES, SCHEDULE ALL INSPECTIONS, MAKE ALL TESTS AND OBTAIN ALL APPROVALS REQUIRED. THE FIRE ALARM WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE ADOPTED EDITIONS OF NFPA-72, NATIONAL ELECTRIC CODE AND LOCAL AUTHORITIES HAVING JURISDICTION. ALL COMPONENTS SHALL BE UL LISTED.
2. THE ELECTRICAL CONTRACTOR SHALL USE THE FIRE ALARM WIRING DIAGRAM PROVIDED BY THE MANUFACTURER. (120 VOLTS, INTERCONNECTIONS WIRING, BATTERY).
3. THE ELECTRICAL CONTRACTOR SHALL DETERMINE DEVICE COUNTS FROM THE FIRE ALARM DRAWINGS.
4. THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE FOLLOWING FOR EACH UNIT:
   A. SMOKE ALARMS AND CO ALARMS AS SHOWN ON PLANS.
   B. 120 VOLT BRANCH CIRCUIT RUN TO EACH DEVICE SHOWN.
   C. ALARM CONTROL WIRING INTERCONNECTION BETWEEN ALL FA DEVICES.
   D. FIELD COORDINATE 120VOLT BRANCH WIRING EXTENSION TO TAMPER FLOW SWITCHES AND SPRINKLER ALARMS AS DICTATED BY SPRINKLER VENDOR.
   E. PROVIDE POWER BACKUP BATTERIES FOR ALL FIRE ALARM DEVICES TO MEET UL217.
   F. CO ALARMS SHALL COMPLY WITH UL 2075 AND UL 2034.

TYPICAL ABBREVIATIONS - OTHER TRADES:

AC	AIR CONDITIONING UNIT	HP	HORSEPOWER
ABF	ABOVE FINISH FLOOR	HV	HEATING AND VENTILATING UNIT
AFC	ABOVE FINISH CEILING	HTW	HIGH TEMPERATURE WATER
AHU	AIR HANDLING UNIT	HTWS	HIGH TEMPERATURE WATER SUPPLY
BOD	BOTTOM OF DUCT	HTWR	HIGH TEMPERATURE WATER RETURN
BOT	BOTTOM	LD	LINEAR CEILING DIFFUSER
CA	COMBUSTION AIR	LBS/HR	POUNDS PER HOUR
CBV	CIRCUIT BALANCING VALVE	MW	MAKE-UP WATER
CO	CLEAN OUT	MAX.	MAXIMUM
CP	CONDENSATE PUMP	MIN.	MINIMUM
CU	CONDENSING UNIT	MAC	NOTIFICATION APPLIANCE CIRCUIT PANEL
CH	CABINET HEATER	NOM.	NOMINAL
DCWS	DOMESTIC COLD WATER SUPPLY	OA	OUTDOOR AIR
DHWS	DOMESTIC HOT WATER SUPPLY	P	PUMP
DHWR	DOMESTIC HOT WATER RETURN	PRV	PRESSURE REDUCING VALVE
DN	DOWN	RA	RETURN AIR
EA	EXHAUST AIR	RT	RETURN FAN
EDH	ELECTRIC DUCT HEATER	RH	RELATIVE HUMIDITY
EER	ENERGY EFFICIENCY RATIO	SAR	SUPPLY AND RETURN
EF	EXHAUST FAN	SA	SUPPLY AIR
ERV	ENERGY RECOVERY VENTILATOR	SD	SMOKE DAMPER
ET	EXPANSION TANK	SP	STATIC PRESSURE
EWH	ELECTRIC UNIT HEATER	SUSP. CLG.	SUSPENDED CEILING
EXIST.	EXISTING	UC	UNDER COUNTER
FC	FLEXIBLE CONNECTION	UH	UNIT HEATER
FCU	FAN COIL UNIT	UV	UNIT VENTILATOR
FL	FLOOR	VD	VOLUME DAMPER
FD	FIRE DAMPER	VFD	VARIABLE FREQUENCY DRIVE
HTR	FIN TUBE RADIATION	S.C.	SUCTION GUIDE
HC	HEATING COIL	T.D.V.	TRIPLE DUTY VALVE
		N.C.	NORMALLY CLOSED
		N.O.	NORMALLY OPEN

ELECTRICAL LEGEND

- PANELBOARD, SURFACE MOUNTED
  - UNIT PANEL BOARDS SHALL BE MOUNTED SO TOP CIRCUIT BREAKER IS 48" A.F.F.
- $D — SINGLE-POLE TOGGLE SWITCH
  - "D" DENOTES DIMMER SWITCH
- $3 — THREE-WAY TOGGLE SWITCH
- $4 — FOUR-WAY TOGGLE SWITCH
- DUPLEX RECEPTACLE 20A, 120V
- GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE
- SINGLE RECEPTACLE
  - MOUNT AS DIRECTED IN FIELD BY OWNER'S REP.
  - 120 VOLT, 20 AMP
  - ARROWS INDICATE DIRECTION. UNBALT INDICATES WALL MOUNTING.
- DRYER RECEPTACLE, 30A, 208V
- OUTLET BOX IN WALL
  - ▽ = PHONE ONLY USE
  - INSTALL (1) CAT 6 HORIZONTAL CABLE FROM EACH I PHONE OUTLET TO BASEMENT SERVICE ENTRANCE, INCLUDING CAT 6 JACK TERMINATOR AND COVER PLATE. DESIGN MAKE SUPERIOR DATAGAIN CATEGORY 6+ W/ LEVITON EXTREME 6+ JACK.
  - ▽ = CABLE/DATA USE
- CATV — CABLE TV OUTLET
  - INSTALL (1) CAT 6 HORIZONTAL CABLE FROM EACH PHONE OUTLET TO BASEMENT SERVICE ENTRANCE, INCLUDING CAT 6 JACK TERMINATOR AND COVER PLATE. DESIGN MAKE SUPERIOR DATAGAIN CATEGORY 6+ W/ LEVITON EXTREME 6+ JACK.
  - INSTALL (1) COAX CABLE FROM EACH CATV OUTLET TO BASEMENT SERVICE ENTRANCE, INCLUDING TERMINATOR AT OUTLET AND COVER PLATE. TYPE RG6U, #16 AWG SOLID COPPER-COVERED STEEL CONDUCTOR, GAS-INJECTED, FOAM-PE INSULATION.

  WIRING BY EC
- RTS — REMOTE TEST STATION
- AC — 8" ABOVE COUNTER
- WP — WEATHER PROOF
- DISCONNECT SWITCH
  - UNFUSED, 240 VOLT, RATED
- DISCONNECT SWITCH
  - FUSED, 240 VOLT, RATED
- BRANCH CIRCUIT CONDUCTORS AND RACEWAY
  - INSTALLED CONCEALED
- HOMERUN TO PANELBOARD
  - 24"O.C MINIMUM
- MS — MOTION SWITCH
- S — 120V PHOTO ELECTRIC SMOKE ALARM - BRK 7010B MODEL P-12040 OR APPROVED EQUAL
- CO — 120V CARBON MONOXIDE ALARM - BRK CO5120BN, KIDDE KN-COB-IC OR APPROVED EQUAL
- AV DOOR BELL
- AV DOOR BELL SIGNAL
- J — JUNCTION BOX
- M — SELF CONTAINED UTILITY METER
- INTERCOM STATION AT EACH BEDROOM UNITS
- FACP — FIRE ALARM STROBE
- OS — OCCUPANCY SENSOR
- DC — DOOR CONTACT
- DS — DOOR STRIKE
- REQ — REQUEST TO EXIT
- CR — KEY CARD READER
- PP — PUSH PLATE FOR AUTOMATIC DOOR OPERATOR
- EPT — ELECTRIC POWER TRANSFER AT HINGE
- PB — ALARMED PANIC BAR
- CAM — SECURITY CAMERA

ADDENDUM No. 2

BRANCH CIRCUITS SCHEDULE

120V OR 277V - 1ø, 2W CIRCUITS

CIRCUIT BREAKER	CONDUCTOR
20A-1P	2-12 AWG & 1-12 AWG EGC IN 3/4"C
30A-1P	2-10 AWG & 1-10 AWG EGC IN 3/4"C
40A-1P	2-8 AWG & 1-10 AWG EGC IN 3/4"C
50A-1P	2-8 AWG & 1-10 AWG EGC IN 3/4"C
60A-1P	2-4 AWG & 1-10 AWG EGC IN 1"C

208V OR 480V - 1ø, 2W CIRCUITS

20A-2P	2-12 AWG & 1-12 AWG EGC IN 3/4"C
30A-2P	2-10 AWG & 1-10 AWG EGC IN 3/4"C
40A-2P	2-8 AWG & 1-10 AWG EGC IN 3/4"C
50A-2P	2-6 AWG & 1-10 AWG EGC IN 3/4"C
60A-2P	2-4 AWG & 1-10 AWG EGC IN 1"C

208V OR 480V - 3ø, 3W CIRCUITS

30A-3P	3-12 AWG & 1-12 AWG EGC IN 3/4"C
40A-3P	3-10 AWG & 1-10 AWG EGC IN 3/4"C
50A-3P	3-8 AWG & 1-10 AWG EGC IN 3/4"C
60A-3P	3-6 AWG & 1-10 AWG EGC IN 1"C
100A-3P	3-4 AWG & 1-10 AWG EGC IN 1"C

NOTES:
1. TYPE MC CABLE SHALL INCLUDE FULL SIZE INSULATED GROUND CONDUCTOR. SIZES AS INDICATED IN SCHEDULE.
2. UPGRADE WIRE SIZE ACCORDING TO VOLTAGE DROP CHART.
3. UPGRADE FEEDER SIZES NOT INCLUDED IN VOLTAGE DROP CHART TO REQUIREMENTS IN ACCORDANCE WITH THE NEC.

VOLTAGE DROP CHART

120V CKTS. / MAX. LENGTH			
LOAD UP TO	CONDUCTOR SIZE #12	CONDUCTOR SIZE #10	CONDUCTOR SIZE #8
800 VA	150 FT	245 FT	390 FT
1000 VA	125 FT	195 FT	310 FT
1200 VA	105 FT	165 FT	260 FT
1400 VA	90 FT	140 FT	220 FT
1600 VA	80 FT	125 FT	195 FT
1800 VA	70 FT	110 FT	175 FT
277V CKTS. / MAX. LENGTH			
2000 VA	350 FT	555 FT	880 FT
2500 VA	280 FT	440 FT	690 FT
3000 VA	230 FT	360 FT	575 FT
3500 VA	190 FT	300 FT	475 FT
4000 VA	165 FT	260 FT	415 FT

APPLICABLE CODES:

1. 2015 INTERNATIONAL CODES AS FOLLOWS:
   a) 2015 INTERNATIONAL BUILDING CODE
   b) 2015 INTERNATIONAL FIRE CODE
   c) 2015 INTERNATIONAL ENERGY CONSERVATION CODE
2. 2019 NYS UNIFORM CODE SUPPLEMENT.
3. 2016 SUPPLEMENT TO NEW YORK STATE ENERGY CONSERVATION CONSTRUCTION CODE.
4. NATIONAL ELECTRICAL CODE, 2014 EDITION (NEC-2014).
5. NFPA 72-2013 EDITION-FIRE ALARM
6. NFPA 720-2015 EDITION-CO DETECTION.

BASIS OF DESIGN / OR-EQUAL PRODUCTS:

EQUIPMENT SHOWN ON THESE PLANS HAVE BEEN SELECTED AND SHOWN FOR DESIGN PLANNING PURPOSES. WHERE SPECIFIC EQUIPMENT VENDOR AND MODEL NUMBERS HAVE BEEN PROVIDED, CONTRACTOR MAY PROPOSE "OR-EQUAL" EQUIPMENT THAT MEETS THE INTENT OF THE DESIGN (PHYSICAL SIZE, REQUIREMENTS, PERFORMANCE, ETC.) EXCEPT WHERE SPECIFICALLY INDICATED OTHERWISE.

PHONE AND CATV OUTLETS - CLARIFICATION:

1. EC SHALL PROVIDE TWO (2) QUADRUPLEX OUTLETS, FED FROM PANEL, PP-1 (CIRCUIT 42) IN OH FIRE RATED PLYWOOD BACKBOARD SHOWN ON DRAWING MR-E.4 FOR USE BY CATV, DATA AND TELEPHONE SERVICE PROVIDERS.
2. CATV: TRUNK CATV RUNS FOR EACH FLOOR SHALL BE FED (HOME RUN) FORM SERVICE CABINETS IN MECHANICAL ROOM TO MDP CLOSET ON EACH FLOOR LEVEL (IE. ROOM 200, 300, ETC.) USING RG-11 TRUNK CATV CABLE. EACH DWELLING UNIT SHALL BE FED DEDICATED TRUNK RG-11 CABLE FROM MDP CLOSET ON EACH LEVEL TO EACH DWELLING UNIT ENTRANCE CLOSET, USING RG-11 COAX CABLE. EACH DWELLING UNIT ENTRANCE CLOSET SHALL BE PROVIDED WITH ONE (1) QUADRUPLEX OUTLET FOR USE BY CATV PROVIDER. FED FROM UNIT PANEL SPARE CIRCUIT. EACH CATV OUTLET IN DWELLING UNIT SHALL CONSIST OF CATV OUTLET BOX WITH COVER, RG-6U COAX CABLE FROM THE CATV OUTLET TO THE DWELLING UNIT ENTRANCE CLOSET.
3. ~~DATA/TELEPHONE: EACH DWELLING UNIT REQUIRES DATA OUTLET SMALL CONSISTS OF TWO (2) RJ-45 MODULAR JACKS (NORT; 4 CONNECTORS WITH LABELS) EACH MODULAR JACK SHALL BE WIRED WITH A DEDICATED CAT 6 CMP (WIRE USED TO WIRE SPARE) CABLE TO PHONE NETWORK INTERFACE DEVICE LOCATED IN ENTRANCE CLOSET. PROVIDE DEDICATED DATA LINE FROM INTERFACE DEVICE IN DWELLING UNIT ENTRANCE CLOSET TO MDP CLOSET ON EACH FLOOR (IE. ROOM 200, 300, ETC.) FOR USE BY DATA/TELEPHONE. NEMIC: FINGHER PROVIDE FIBER OPTIC RISER CABLE MODEL DAXOSL-LOOR-4-STRAND-MM OM3 MULTI MODE FIBER RISER RATED (OFNR) REFER ATTACHED FIBER INTERFACE DEVICE IN MFG. CLOSET ON MAIN FLOOR WITH THE FOLLOWING SPECIFICATIONS: DAXOSL-LOOR-4-SC-SINGLE MODE FIBER RISER RATED (OFNR) REFER ATTACHED FIBER INTERFACE DEVICE IN MFG. CLOSET ON MAIN FLOOR WITH THE FOLLOWING SPECIFICATIONS:~~
4. CONTRACTOR TO CONFIRM MATERIALS AND LOCATIONS PRIOR TO PERFORMING ANY WORK.

ADDENDUM No. 1

ADDENDUM No. 2
- OMITTED DATA/TELEPHONE

MEP COORDINATION

1. ALL ELECTRICALLY POWERED HVAC, PLUMBING AND FIRE PROTECTION EQUIPMENT TO BE PROVIDED WITH LOCAL DISCONNECT SWITCHES. THE SWITCHES SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE.
2. VARIABLE FREQUENCY DRIVES (VFD/VSD) SHALL BE SUPPLIED BY THE CONTRACT AND INSTALLED BY THE ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE. CONTRACT EXACT LOCATION OF VARIABLE FREQUENCY DRIVES WITH MECHANICAL PLANS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AUX CONTACTS / MICRO-SWITCHES IN THE DISCONNECT WIRED TO THE VFD/VSD. ALL CONTROL WIRING SHALL BE BY THE MECHANICAL CONTRACTOR.
3. LINE VOLTAGE THERMOSTATS SHALL BE SUPPLIED BY THE MECHANICAL CONTRACTOR, INSTALLED AND WIRED BY THE ELECTRICAL CONTRACTOR.
4. DUCT MOUNTED SMOKE DETECTORS: ARE TO BE SUPPLIED BY THE ELECTRICAL CONTRACTOR (FIRE ALARM EQUIPMENT SUPPLIER), INSTALLED IN THE DUCTWORK BY THE HVAC SUBCONTRACTOR, WIRED BY THE ELECTRICAL CONTRACTOR. REMOTE TEST SWITCHES SHALL BE INSTALLED IN CEILING OR WALL BELOW UNIT FINAL LOCATION TO BE CONFIRMED WITH OWNER REPRESENTATIVE.
5. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF THE PLUMBING, HVAC AND SPRINKLER SYSTEM DEVICES IN THE FIELD PRIOR TO ROUGH IN.
6. ALL EXTERIOR DISCONNECT SWITCHES AND THERMAL SWITCHES SHALL BE RATED NEMA 3R.
7. PROVIDE WEATHERPROOF RECEPTACLES WITH WHILE-IN-USE COVERS FOR ALL EXTERIOR OUTLETS.

BRANCH CIRCUIT WIRING

1. WIRING SHOWN ON DRAWINGS IS FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS.
2. WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL OUTLETS, INDICATED WITH CIRCUIT NUMBERS AND PANEL DESIGNATIONS.
3. ALL SWITCH CONTROLS SHALL BE PROVIDED WITH WIRING AND CONDUIT AS REQUIRED.
4. ALTHOUGH ALL BRANCH CIRCUIT WIRE AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DRAWINGS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED.
5. ALL 120V SINGLE PHASE CIRCUITS SHALL HAVE DEDICATED NEUTRALS. NO SHARED NEUTRALS WILL BE ALLOWED.

REVISIONS:

△1 07-23-16 ADDENDUM 1 AND 2 UPDATES
- DRAWING RE-ISSUED

HESNOR

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P.O.C. - 252 North Pearl St, Albany, NY 12210

ELECTRICAL NOTES AND LEGENDS
Construction Documents MIDRISE

DATE: 10/31/2017
DRAWN BY: DB
JOB #: 17-03
SCALE: N.T.S
DRAW NO #:
MR-E0.0

GENERAL NOTES:

1. LIGHTING POWER IS BASED ON 208-VOLT EXISTING SERVICE LOCATED IN BUILDING ELECTRICAL ROOM.
2. ALL WORK SHOWN ON THIS PLAN IS WORK BY ELECTRICAL CONTRACTOR (EC) UNLESS NOTED OTHERWISE. ALL SITE LIGHTING EQUIPMENT (FIXTURES, POLES, ETC) SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR AND WIRED BY THIS PACKAGE. CONCRETE POLE BASES, EXCAVATION AND BACKFILL SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR. SEE SITE DRAWINGS FOR DETAILS.
3. THE INTENT OF THIS DRAWING IS TO SHOW CONSTRUCTION TO PROVIDE SITE LIGHTING FOR PARKING AREA AND ENTRANCE ROADWAY.
4. ALL LIGHTING FIXTURES SHALL BE POWERED FROM PANEL LP-H, UNLESS INDICATED OTHERWISE.
5. ALL UNDERGROUND SERVICES SHALL BE DIRECT BURIED (AS OPPOSED TO CONCRETE ENCASED) IN SCHEDULE 80 PVC CONDUIT. SEE DETAIL SHEET FOR MORE INFORMATION.
6. ALL EXTERIOR LIGHTING SHALL BE CONTROLLED BY ONE PROGRAMMABLE LIGHTING PANEL, TWO 2-POLE RELAYS FOR LIGHTING POLES AND BOLLARDS LIGHTING AND TWO 1-POLE RELAYS FOR OTHER EXTERIOR LIGHTING.
7. FOR ALL EXTERIOR BUILDING LIGHTING, PROVIDE #8 (CU) AWG POWER CONDUCTORS WITH MAXIMUM LOADING OF 1000-WATTS TO COMPLY WITH VOLTAGE DROP PER NEC (ASSUMING 1,100-FEET). ADVISE ENGINEER IF DIFFERENT DISTANCE (RUN), VOLTAGE OR LOADING IS REQUIRED TO ADJUST CALCULATIONS AFTER LIGHTING IS APPROVED.

THIS DRAWING SHALL NOT BE SCALED AND IS DIAGRAMMATIC ONLY TO REPRESENT ELECTRICAL SERVICES. REFER TO SITE PLANS FOR ACCURATELY SCALED PLANS.

REVISIONS:

- 02-23-16 DRAWING RE-ISSUED NO CHANGES

HESNOR ARCHITECTS ASSOCIATES

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IDA YARBROUGH HOMES REDEVELOPMENT - Phase2
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ELECTRICAL SITE PLAN
Construction Documents
MIDRISE

DATE: 10/31/2017
DRAWN BY: DB
JOB #: 17-03
SCALE: NTS
DRAWING #:
MR-EO.1

KEYED NOTES: THIS SHEET

COORDINATE HEIGHT IN FIELD WITH IN-WALL BLOCKING. CONFIRM WITH OWNER'S REP.

4x4 JB (TYP.)

1" CONDUIT

FIN. FL.

4x4 JB (W/D CONDUIT) FOR CABLE TV

*ONLY APPLIES TO COMMUNITY ROOM

NOTE: SEE ELECTRICAL SWITCHGEAR PLAN, SHEET MR-E104.

ADD FAC PULL STATION, PER RPM1, PROVIDE SIGNAGE "FOR TESTING PURPOSES ONLY"

ADD No. 2 PROVIDE POWER FOR 3 STACKABLE DRYER UNITS

DELETE BATH FIXTURES

NO CARD READER AT THIS DOOR

ADDENDUM No. 1

ADDENDUM No. 2 OMITTED

DELETED IN AC-011

ADDED IN AC-011

SEE NOTE SHEET FOR CHANGES

SEE NOTE SHOWN ON TEST FL.

ADD 7 1/2" FLAT

RELOCATE HIGH AUTO DR OPERATOR SUBMITTAL

1 FIXTURE, 2 BUTTONS PER AC-409

BI-EMPER AC-409

ADJUST PER AC-409

MOUNT ON PEDESTAL

ADDED IN AC-402

BI-EMPER AC-409

KEYED NOTES THIS SHEET

1 PROVIDE ONE (1) DEDICATED CIRCUIT, FOR CARD ACCESS DOOR CONTROLLER.

GENERAL NOTES: THIS SHEET

1. LIGHTING SHALL BE FED FROM PANEL LP-1 LOCATED IN THE MECHANICAL ROOM, SIZED PER BRANCH CIRCUIT TABLE ON DRAWING MR-E0.1 AND CIRCUIT NUMBERS PROVIDED IN SCHEDULE ON ME-E4.3.
2. RECEPTACLES SHALL BE FED FROM PANEL PP-1, LOCATED IN THE MECHANICAL ROOM, SIZED PER BRANCH CIRCUIT TABLE ON DRAWING MR-E0.1 AND CIRCUIT NUMBERS PROVIDED IN SCHEDULE ON ME-E4.2 (BASIS OF BID LIMIT NUMBER OF RECEPTACLES TO BETWEEN 6-8 RECEPTACLES PER CIRCUIT).

ADDENDUM No. 1

GROUND FLOOR PLAN

ADDED IN AC-402

BI-EMP PER AC-409

1 FIXTURE, 2 BUTTONS PER AUTO DR OPERATOR SUBMITTAL

DELETE PENDANT AND ADD (1) "E" FIXTURES

ADDED IN AC-011

DELETED IN AC-011

ADDENDUM No. 2 OMITTED

ADDENDUM No. 2

DELETE CARD READER

DELETED IN AC-011

SUSPENDED OPEN OFFICE HEIGHT SPACE

FIRE/SMOKE DAMPER COMBO PROVIDE FIRE ALARM CONTROL RELAY ACTIVATED BY ELEVATOR FIRST FLOOR SMOKE DETECTOR. THIS RELAY WILL CONTROL COMBINATION FIRE AND SMOKE DAMPER. PROVIDE 120-VOLT CIRCUIT TO CONTACTS FROM LOCAL LIGHTING LIFE SAFETY CIRCUIT FOR DAMPER ACTIVATION.

ADD "D" FIXTURES AT LOCATIONS

FIRST FLOOR PLAN

REVISIONS:

△ 02-23-18 ADDENDUM 1 AND 2 UPDATES
ADDENDUM 4 NEW DRAWING ISSUED

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ELECTRICAL FLOOR PLANS
Construction Documents MIDRISE

DATE: 03/2017
DRAWN BY: DS
JOB #: 17-03
SCALE: 1/8"=1'-0"
DRAWING #:
MR-E1.1

RECONFIGURED TO ALIGN
WITH SHIFTED DOORS
ADD. No. 4
RECONFIGURED PER AUTO DR
OPERATOR SUBMITTAL
DOUBLE PUSH PLATE.
SHOWN OFFSET FOR CLARITY
RELOCATED
SP-1
EF
C-2
CH
1
FB
KC
INT
DELETE
PP
FAAN
DS
DC
EX
FC
009
MOUNT MIN. 48" AFF
MAX. 54" AFF
(TO CENTER.)
P-EM
B-EM
B1-EM
ADD. No. 1
PER AC-20
PER AC-028
MOUNT ON
PEDESTAL
GROUND
FLOOR
VESTIBULE
003
C.4
C.5
REX
OS
H
0-1
SUPPORTI
SERVICE
OFFICE

SECOND FLOOR PLAN

KEYED NOTES THIS SHEET

1. PROVIDE ONE (1) DEDICATED CIRCUIT, FOR CARD ACCESS DOOR CONTROLLER.

GENERAL NOTES: THIS SHEET

1. LIGHTING SHALL BE FED FROM PANEL LP-1 LOCATED IN THE MECHANICAL ROOM. SIZED PER BRANCH CIRCUIT TABLE ON DRAWING MR-E1.1 AND CIRCUIT NUMBERS PROVIDED IN SCHEDULE ON ME-E4.2.
2. RECEPTACLES SHALL BE FED FROM PANEL PP-1, LOCATED IN THE MECHANICAL ROOM. SIZED PER BRANCH CIRCUIT TABLE ON DRAWING MR-E1.1 AND CIRCUIT NUMBERS PROVIDED IN SCHEDULE ON ME-E4.2 (BASED OF MD UNIT NUMBER OF RECEPTACLES TO BETWEEN 6-8 RECEPTACLES PER CIRCUIT).

ADDENDUM No. 1

THIRD FLOOR PLAN

REVISIONS:

△ 02-23-18 ADDENDUM 1 AND 2 UPDATES -DRAWING RE-ISSUED

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IDA YARBROUGH HOMES REDEVELOPMENT - Phase2
P.O.C. - 252 North Pearl St. Albany, NY 12210

ELECTRICAL FLOOR PLANS
Construction Documents MIDRISE

DATE: 10-31-2017
DRAWN BY: DB
JOB #: 17-03
SCALE: 1/8"=1'-0"
DRAW NO #:
MR-E1.2

KEYED NOTES THIS SHEET

1. PROVIDE ONE (1) DEDICATED CIRCUIT, FOR CARD ACCESS DOOR CONTROLLER.

FOURTH FLOOR PLAN

GENERAL NOTES: THIS SHEET

1. LIGHTING SHALL BE FED FROM PANEL LP-1 LOCATED IN THE MECHANICAL ROOM, SIZED PER BRANCH CIRCUIT TABLE ON DRAWING MR-E0.1 AND CIRCUIT NUMBERS PROVIDED IN SCHEDULE ON ME-E4.2.
2. RECEPTACLES SHALL BE FED FROM PANEL PH-1, LOCATED IN THE MECHANICAL ROOM, SIZED PER BRANCH CIRCUIT TABLE ON DRAWING MR-E0.1 AND CIRCUIT NUMBERS PROVIDED IN SCHEDULE ON ME-E4.2 (BASE OF BID LIMIT MAXIMUM OF RECEPTACLES TO BE TWELVE (12) RECEPTACLES PER CIRCUIT).

ADDENDUM No. 1

FIFTH FLOOR PLAN

REVISIONS:

△ 02-23-18 ADDENDUM 1 AND 2 UPDATES -DRAWING RE-ISSUED

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ELECTRICAL FLOOR PLANS
Construction Documents MIDRISE

DATE: 10-31-07
DRAWN BY: DS
JOB #: 17-03
SCALE: 1/8"=1'-0"
DRAWING #:
MR-E1.3

KEYED NOTES — SIXTH FLOOR PLAN

1. PROVIDE ONE (1) DEDICATED CIRCUIT, FOR CARD ACCESS DOOR CONTROLLER.

GENERAL NOTES: — THIS SHEET

1. LIGHTING SHALL BE FED FROM PANEL LP-1 LOCATED IN THE MECHANICAL ROOM. SEE PLAN BRANCH CIRCUIT TABLE ON DRAWING MR-E3, AND CIRCUIT NUMBERS PROVIDED IN SCHEDULE ON MR-E4.2.
2. RECEPTACLES SHALL BE FED FROM PANEL PP-1, LOCATED IN THE MECHANICAL ROOM. SEE PLAN BRANCH CIRCUIT TABLE ON DRAWING MR-E3.1 AND CIRCUIT NUMBERS PROVIDED IN SCHEDULE ON MR-E4.2 (BASIS OF BID LIMIT NUMBER OF RECEPTACLES TO BE EVENLY FED RECEPTACLES PER CIRCUIT).

ADDENDUM No. 1

FIRE/SMOKE DAMPER COMBO

PROVIDE FIRE ALARM CONTROL RELAY ACTIVATED BY ELEVATOR FIRST FLOOR SMOKE DETECTOR. THIS RELAY WILL CONTROL COORDINATION FIRE AND SMOKE DAMPER. PROVIDE 120-VOLT CIRCUIT TO CONTACTS FROM LOCAL LIGHTING LIFE SAFETY CIRCUIT FOR DAMPER ACTIVATION.

SIXTH FLOOR PLAN

ELECTRICAL SWITCHGEAR PLAN
1/4" = 1'-0"

KEYED NOTES — ELECTRIC SWITCHGEAR PLAN

1. PROVIDE FIRE RATED PLYWOOD BACKBOARD FOR DATA/TEL/CATV. MAIN ELECTRICAL ROOM: 96-INCH WIDE x 48-INCH HIGH. TIE CLOSETS: 48-INCH WIDE x 48-INCH HIGH
2. COORDINATE DATA/TEL/CATV POLE LOCATION WITH SITE PLANS. PROVIDE (2) 4-INCH RACEWAYS (TELECAT/DATA SPARE) WITH METERED PULL STRING FROM SERVICE UTILITY POLE TO MAIN ELECTRICAL RM. 177 ENTRY POINT SHOWN.
3. TYP. FOR EA. OF FOUR (4) TIE CLOSET: PROVIDE (2) 2-INCH RACEWAYS WITH METERED PULL STRING FROM ELECTRICAL RM. 177 TO EACH TIE CLOSET RM. (TELEPHONE, CATV, DATA SPARE)
4. - (2) 2"C FOR POWER WIRING
   - (1) 1-1/2"C WITH 5#8 AWG + #10G FOR AUXILIARY POWER WIRING TO GENERATOR SERVICES FOR BLOCK HEATER, COOLANT HEATER, BATTERY CHARGER AND MAINTENANCE OUTLET.
   - (1) 1"C FOR CONTROL WIRING FROM GENERATOR TO TRANSFER SWITCH. FIGURE ON 5#14 AWG & #C-485 CABLE; CONFIRM WITH APPROVED SUBMITTAL.
   - (1) 1"C FOR CONTROL WIRING TO REMOTE ANNUNCIATOR: FIGURE ON 2#12 AND BELDEN 8710; CONFIRM WITH APPROVED SUBMITTAL.
5. ALL SITE LIGHTING EQUIPMENT (FIXTURES, POLES, ETC) SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR AND WIRED BY THIS PACKAGE. CONCRETE POLE BASES, EXCAVATION AND BACKFILL SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR.
   - ALL EXTERIOR LIGHTING SHALL BE CONTROLLED BY ONE PROGRAMMABLE LIGHTING PANEL, TWO 2-POLE RELAYS FOR SECURITY LIGHTING (AFTER HOURS) AND TWO 2-POLE RELAYS FOR EXTERIOR LIGHTING (PEAK BUSINESS HOURS).
   - PROVIDE LIGHTING CONTROL PANEL WITH 8 RELAYS AND TIME CLOCK (1) WATTSTOPPER LPN, PEANUT CONTROL PANELS OR EQUAL. PROVIDE PHOTOCELL WITH CONTROL WIRING FOR INPUT TO UNIT. FIELD COORDINATE PROGRAMMING FOR LIGHTING RELAY PANEL WITH OWNER SCHEDULES OF OFF-HOURS AND PEAK NIGHT TIME USE.
   - EC SHALL PROVIDE SITE LIGHTING EQUIPMENT AND POWER WIRING IN RACEWAY BASED ON LOCATIONS AND SCHEDULE SHOWN ON CIVIL PLAN C006 THRU C008, C012 THRU C013. PROVIDE THREE SEPARATE PROGRAMMABLE TIMER CIRCUITS AS FOLLOWS: (1) SITE POLES, (2) CANOPY/BOLLARD LIGHTS AND (3) BUILDING EXTERIOR WALL MOUNTED LIGHTS. PROVIDE FOUR (4) TYPE W3TM WALL SCONCES SHOWN ON C014, CONFIRM MOUNTING HEIGHT AND LOCATION WITH FIELD ARCHITECT.

REVISIONS:

△ 02-23-16 ADDENDUM 1 AND 2 UPDATED -DRAWING RE-ISSUED

HESNOR ENGINEERING ASSOCIATES

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ELECTRICAL FLOOR PLANS
Construction Documents — MIDRISE

DATE: 10/3/2011
DRAWN BY: DS
JOB #: 11-03
SCALE: 1/8" = -0"
DRAW NO #:
MR-E1.4

ROOF PLAN

REVISIONS:

1	07-23-18	ADDENDUM 1 AND 2 UPDATES ADDENDUM 4 NEW DRAWING ISSUED

HESNOR

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IDA YARBROUGH HOMES REDEVELOPMENT - Phase2
P.O.C. - 252 North Pearl St. Albany, NY 12210

ELECTRICAL ROOF PLAN
Construction Documents
MIDRISE

DATE: 10 3 2017
DRAWN BY: DB
JOB #: 17-03
SCALE: 1/8" = 1'-0"
DRAWING #:
MR-E1.5

1-BEDROOM UNIT - TYPE 2 - FULLY ACCESSIBLE

2-BEDROOM UNIT - TYPE 3 AND 4 - FULLY ACCESSIBLE

KEYED NOTES — THIS SHEET

1. PROVIDE (1) ADDRESSABLE HEAT DETECTOR IN KITCHEN AND (1) ADDRESSABLE HORN STROBE (COLOR WHITE) IN EACH UNIT THAT CONNECTS TO BUILDING FIRE ALARM SYSTEM. OTHER FIRE ALARM DEVICES SHOWN IN UNITS ARE 120-VOLT ALARMS, INTERCONNECTED WITHIN UNITS.

1-BEDROOM UNIT

2-BEDROOM UNIT - TYPE 1 AND 2

revised 12/20/18
(showing brights remain as original)

REVISED 11/8/18

REVISIONS:

1	07-23-18	ADDENDUM 2 UPDATES ADDENDUM 4 NOW DRAWING ISSUED

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IDA YARBROUGH HOMES REDEVELOPMENT - Phase2
P.O.C. - 252 North Pearl St. Albany, NY 12210

ENLARGED ELECTRICAL PLANS
Construction Documents
MIDRISE

DATE: 10/3/2017
DRAWN BY: DB
JOB #: 7-03
SCALE: 1/4"=1'-0"
DRAWING #:
MR-E2.1

DOWNLIGHT MOUNTING – GYPBOARD CEILING

LUMINAIRE MOUNTING – LAY–IN CEILING

KEYED NOTES: THIS SHEET

ABBREVIATIONS:

DW- DISHWASHER, LOCATED BELOW COUNTER
DRY- DRYER OUTLET
REF- REFRIGERATOR OUTLET
GFI- GROUND FAULT INTERRUPTER
AC- ABOVE COUNTER
ER- ELECTRIC RANGE
MW- MICROWAVE

EXIT SIGN MOUNTING – LAY–IN CEILING

EXIT SIGN MOUNTING – GYPBOARD CEILING

▽ DATA & COMMUNICATIONS OUTLET DETAIL

REVISIONS:

△ 02-23-18 ADDENDUM 1 UPDATES -DRAWING RE-ISSUED

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IDA YARBROUGH HOMES REDEVELOPMENT- Phase 2
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ELECTRICAL DETAILS
Construction Documents MIDRISE

DATE: 6/31/2017
DRAWN BY: JB
JOB #: 17-03
SCALE: NTS
DRAWING #:
MR-E3.1

NOTES:

1. DEVICES SHALL BE INSTALLED ON A COMMON VERTICAL CENTERLINE WHEREVER POSSIBLE.
2. ALL DEVICES SHALL BE INSTALLED AT MOUNTING HEIGHTS AS INDICATED ON ARCHITECTURAL DRAWINGS.
3. MOUNT DEVICE 8" ABOVE COUNTER TOP. COORDINATE HEIGHT OF BACK SPLASH WITH THE ARCHITECT
4. PRIOR TO ROUGH-IN, VERIFY ALL MOUNTING HEIGHTS AND DEVICE LOCATIONS WITH OWNER.
5. NOT ALL DEVICES USED IN THE PROJECT ARE SHOWN.
6. 48" HEIGHT FOR ADA FRONT REACH & 54" HEIGHT FOR ADA SIDE REACH.

ALL MOUNTING HEIGHTS SHOWN ARE FOR BIDDING PURPOSES ONLY. EXACT MOUNTING HEIGHTS SHALL BE COORDINATED WITH ARCHITECT & OWNER PRIOR TO ROUGH-IN

ELECTRICAL DEVICE MOUNTING HEIGHTS DETAIL

REVISIONS:

- 02-23-18 DRAWING RE-ISSUED NO CHANGES

SERVICE GROUNDING DETAIL

FEEDER/BRANCH CIRCUIT SCHEDULE (600V AND BELOW)

WIRE DESIGNATION (AMP/#WIRES)	CONDUIT SIZE	WIRE SIZE (AWG IF NOT OTHERWISE NOTED)	NEUTRAL WIRE SIZE	GROUND WIRE SIZE	REMARKS
20/2	3/4"	(2)#12	-	(1)#12	NOTE 1
30/2	3/4"	(2)#10	-	(1)#10	NOTE 1
40/2	3/4"	(2)#8	-	(1)#10	NOTE 1
50/2	3/4"	(2)#6	-	(1)#10	NOTE 1
20/3	3/4"	(3)#12	-	(1)#12	
20/1	3/4"	(3)#12	(1)#12	(1)#12	
30/3	3/4"	(3)#10	-	(1)#10	
30/1	3/4"	(3)#10	(1)#10	(1)#10	
40/3	1"	(3)#8	-	(1)#10	
40/1	1"	(3)#8	(1)#8	(1)#10	
50/3	1"	(3)#6	-	(1)#10	
50/1	1"	(3)#6	(1)#6	(1)#10	
60/3	1-1/2"	(3)#4	-	(1)#10	
60/1	1-1/2"	(3)#4	(1)#4	(1)#10	
70/3	1-1/2"	(3)#4	-	(1)#8	
70/1	1-1/2"	(3)#4	(1)#4	(1)#8	
80/1	1-1/2"	(3)#2	(1)#2	(1)#8	
100/1	1-1/2"	(3)#1	-	(1)#8	
110/1	1-1/2"	(3)#1	(1)#1	(1)#8	
150/3	1-1/2"	(3)#1/0	-	(1)#6	
150/1	2"	(3)#1/0	(1)#1/0	(1)#6	
175/3	2"	(3)#2/0	-	(1)#6	
175/1	2"	(3)#2/0	(1)#2/0	(1)#6	
200/3	2"	(3)#3/0	-	(1)#6	
200/1	2-1/2"	(3)#3/0	(1)#3/0	(1)#6	
225/3	2-1/2"	(3)#4/0	-	(1)#4	
225/1	2-1/2"	(3)#4/0	(1)#4/0	(1)#4	
250/1	2-1/2"	(3)#250 KCMIL	-	(1)#4	
300/1	3"	(3)#250 KCMIL	(1)#250 KCMIL	(1)#4	

WIRE DESIGNATION (AMP/#WIRES)	CONDUIT SIZE	WIRE SIZE (AWG IF NOT OTHERWISE NOTED)	NEUTRAL WIRE SIZE	GROUND WIRE SIZE	REMARKS
300/3	3"	(3)#350 KCMIL	-	(1)#4	
300/1	3"	(3)#350 KCMIL	(1)#350 KCMIL	(1)#4	
350/3	3-1/2"	(3)#500 KCMIL	-	(1)#2	
350/1	4"	(3)#500 KCMIL	(1)#500 KCMIL	(1)#2	
400/3	(2) 2"	(3)#3/0 KCMIL	-	(1)#2	
400/1	(2) 2 1/2"	(3)#3/0 KCMIL	(1)#3/0 KCMIL	(1)#2	
500/3	(2) 3"	(3)#350 KCMIL	-	(1)#1	
500/1	(2) 3"	(3)#350 KCMIL	(1)#350 KCMIL	(1)#1	
600/3	(3) 3"	(3)#500 KCMIL	-	(1)#1/0	
600/1	(3) 3"	(3)#500 KCMIL	(1)#350 KCMIL	(1)#1/0	
800/3	(3) 4"	(3)#500 KCMIL	-	(1)#2/0	
800/1	(3) 4"	(3)#500 KCMIL	(1)#500 KCMIL	(1)#2/0	
1200/3	(4) 3"	(3)#350 KCMIL	-	(1)#3/0	
1200/1	(4) 3"	(3)#350 KCMIL	(1)#350 KCMIL	(1)#3/0	
1600/3	(6) 3"	(3)#500 KCMIL	-	(1)#4/0	
1600/1	(6) 3"	(3)#500 KCMIL	(1)#500 KCMIL	(1)#4/0	
2000/3	(6) 4"	(3)#600 KCMIL	-	(1)250 KCMIL	
2000/1	(6) 4"	(3)#600 KCMIL	(1)#600 KCMIL	(1)250 KCMIL	
SPECIAL FEEDERS					

GENERAL NOTES

1. FOR ALL FEEDERS WITH MULTIPLE CONDUITS. PROVIDE THE INDICATED PHASE, NEUTRAL AND GROUND WIRES IN EACH CONDUIT.
2. ALL FEEDER SIZES BASED ON COPPER, CONDUCTOR MATERIALS.
3. NOT ALL FEEDERS ARE NECESSARILY USED. REFER TO ONE LINE DIAGRAM, MOTOR AND EQUIPMENT SCHEDULE, PLANS FOR ACTUAL FEEDERS REQUIRED.
4. IF NOT OTHERWISE NOTED USE 3/4" CONDUIT WITH (2)#12, (1)#12 G. FOR 2-WIRE FEEDER/BRANCH CIRCUIT AND 3/4" CONDUIT WITH (3)#12, (1)#12 G. FOR 3-WIRE FEEDER/BRANCH CIRCUIT.

NOTES

1. FEEDER SHOWN CONSISTS OF TWO PHASE WIRES. THE SAME DESIGNATION IS ALSO APPLICABLE FOR FEEDER WITH ONE PHASE WIRE AND A NEUTRAL WIRE.
2. FOR ALL FEEDERS UPSIZED DUE TO VOLTAGE DROP PROVIDE TERMINAL BLOCKS OR OTHER APPROVED MEANS TO TERMINATE WIRES.
3. DO NOT PROVIDE GROUNDING WIRE WITH SERVICE CONDUCTORS. SEE RISER FOR SERVICE SIZE.

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ELECTRICAL DETAILS
Construction Documents
MIDRISE

DATE: 10 3/2017
DRAWN BY: DB
JOB #: 17-03
SCALE: NTS
DRAWING #:
MR-E3.2

KEYED NOTES

1. HEAVY DUTY RATED, POLYMER CONCRETE AND FIBER REINFORCED POLYESTER, OPEN BOTTOM HANDHOLE, SIZE AS SPECIFIED.
2. ONE-PIECE, BOLTING COVER OF HEAVY DUTY TRAFFIC RATED AND LABELED "SITE-LIGHTING" OR "COMMUNICATIONS.
3. STAINLESS STEEL CAPTIVE BOLTS, TYPICAL OF TWO.
4. SET HANDHOLE IN 6" OF PEA GRAVEL OVER UNDISTURBED EARTH.
5. UNDISTURBED EARTH.
6. CONDUITS PER PLANS AND/OR SCHEDULES. SEAL CONDUIT OPENING.
7. BACKFILL: COMPACTION SHALL MATCH SURROUNDING MATERIAL. BACKFILL SHALL BE FREE OF ROCKS, DEBRIS, ETC. FINISH SHALL MATCH FINAL SURROUNDING CONDITIONS, IE: TOPSOIL AND GRASS, SIDEWALK, ETC.
8. FINISH SHALL MATCH FINAL SURROUNDING CONDITIONS (PAVING, TOPSOIL, GRASS, SIDEWALK, ETC.)

SITE LIGHTING AND COMMUNICATIONS HAND HOLE DETAIL

NOTES:

1. CONCRETE BASE SHALL BE REINFORCED WITH #4 BAR VERTICAL TIED WITH #3 BAR 12" O.C. AT 4-INCHES FROM OUTSIDE FACE OF CONCRETE BASE. REINFORCEMENT SHALL BE ASTM A615 GRADE 60.
2. CONCRETE SHALL BE 4,000 PSI AT 28 DAYS.
3. PROVIDE RUBBED FINISH AT CONCRETE EXPOSED TO VIEW TO 8" BELOW FINISH GRADE.
4. FOR POLES DESIGNATED AS CAMERA SITE POLES, SUBMIT PROPOSED INSTALLATION SKETCH TO SHOW ALL MOUNTING DETAIL AND CONDUIT ROUTING TO COORDINATE WITH SECURITY INSTALLER. COORDINATE APPROVED SKETCH WITH APPROVED LIGHTING POLE MANUFACTURER AND ADJUST POLE BASE ACCORDINGLY.

LIGHT POLE BASE DETAIL

NOTE:
EC SHALL PROVIDE TRENCHING AND BACKFILL WORK.
EC SHALL PROVIDE CONDUIT AND WIRING.
GC SHALL RESTORE FINISHED GRADE.

NOTES:

1. COORDINATE ALL EXCAVATION WITH OWNER'S REP PRIOR TO PERFORMING ANY WORK.

DIRECT BURIED DETAIL

REVISIONS:

- 07-23-16 DRAWING RE-ISSUED NO CHANGES

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ELECTRICAL DETAILS
Construction Documents
MIDRISE

DATE: 6/30/2017
DRAWN BY: DB
JOB #: 17-09
SCHEMATIC
DRAWING #:
MR-E3.3

NOTES:

1. PROVIDE INITIATING DEVICE CIRCUITS AS REQUIRED TO CONNECT ALL DEVICES.
2. PROVIDE NOTIFICATION APPLIANCE CIRCUIT POWER EXTENDER PANELS AS REQUIRED. LOCATE IN FIELD TO OPTIMIZE NAC WIRING. PROVIDE 120V, 20A DEDICATED BRANCH CIRCUIT FROM CLOSEST POWER PANEL FOR EACH NAC PANEL.
3. SMOKE ALARMS IN EACH APARTMENT SHALL BE INTERCONNECTED SUCH THAT ACTIVATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS IN EACH INDIVIDUAL APARTMENT.
4. RISER IS DIAGRAMMATIC ONLY AND NOT INTENDED TO INDICATE ROUTING OF WIRING OR QUANTITIES OF DEVICES. PROVIDE WIRING FOR A COMPLETE AND FUNCTIONAL SYSTEM AS REQUIRED BY SYSTEM MANUFACTURER.

FIRE ALARM RISER DIAGRAM

EXTERIOR LIGHTING CONTROL SYSTEM DETAIL

NOTES:

1. PROVIDE NEW MECHANICALLY HELD CONTACTOR (REFER TO CIRCUIT BREAKER SCHEDULE FOR SIZE). EMERGENCY POWER OFF (EPO) BUTTONS AND KEYED RESET SWITCH.
2. EMERGENCY POWER OFF EQUIPMENT SHALL BE BY SQUARE D, EATON, GE OR APPROVED EQUAL.
3. POWER THE CONTACTOR SO THAT IT WILL REQUIRE COIL POWER TO HOLD IT AL WHEN AN EPO BUTTON IS PRESSED. THE POWER TO THE COIL IS CUT-OFF THE CONTACTOR WILL CUT OFF POWER TO THE EQUIPMENT. THE CONTACTOR SHALL BE RESET BY THE KEY OPERATED RESET SWITCH
4. IN THE EVENT OF A POWER FAILURE, THE CONTACTOR WILL NOT REQUIRE A RESET TO OPERATE WHEN POWER IS RESTORED.
5. EPO BASIS OF DESIGN SQUARE D #9001-KS6H13/KT1, KEY OPERATED RESET SWITCH BASIS OF DESIGN SQUARE D #9001-KN203/KR1/KS3AK1.
6. PROVIDE QUANTITY OF EPOS AS SHOWN ON PLANS.
7. PROVIDE VANDAL PROOF GUARD STOPPER II CATEGORY NO. STI-8200.

TYPICAL BOILER EMERGENCY POWER OFF (EPO) CONTROL DETAIL

REVISIONS:

- 02-23-15 DRAWING RE-ISSUED NO CHANGES

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ELECTRICAL DETAILS
Construction Documents
MIDRISE

DATE: 0/31/2011
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JOB #: 11-03
SCALE: NTS
DRAWING #:
MR-E3.4

ELEVATOR HOISTWAY ELEVATION

WIRING SCHEMATIC

NOTES:

1. ALL LOW VOLTAGE WIRING AND SECURITY EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY OWNER.
2. COORDINATE EXACT LOCATIONS AND MOUNTING REQUIREMENTS OF ALL DEVICES WITH THE ARCHITECTURAL DRAWINGS.
3. PROVIDE INSULATED BUSHINGS ON ALL CONDUITS.
4. ELECTRIC DOOR LOCKSETS AND HINGES SHALL BE FURNISHED AND INSTALLED BY THE HARDWARE CONTRACTOR.
5. VERIFY DOOR HARDWARE CONNECTIONS WITH MANUFACTURER'S INSTALLATION MANUAL.

TYPICAL ACCESS DOOR DETAIL

KEY NOTES

1. PROVIDE 150A/3P (4W) SHUNT TRIP CIRCUIT BREAKER CONTROLLED VIA FACP RELAY WITH 125-AMP TRIP DEDICATED TO ELEVATOR CONTROLLER AS PER ONE LINE DIAGRAM WITH AUXILIARY CONTACTS AND ALARM CONTACTS. CONFIRM CIRCUIT BREAKER FRAME/TRIP W/APPROVED SHOP DRAWINGS.
2. PROVIDE DEDICATED CIRCUIT FOR LIGHTING AND RECEPTACLE. CONNECT CIRCUIT TO LUMINAIRES UPSTREAM OF GFCI RECEPTACLE. (TYP. FOR ELEVATOR PIT). SEE PANEL SCHEDULES FOR CIRCUIT NUMBER.
3. PROVIDE 8-INCH WIDE BY 8-INCH HIGH ELECTRICAL RACEWAY, 8-INCH BY 8-INCH PIPE SLEEVE. LOCATION TO BE CONFIRMED WITH ELEVATOR INSTALLER.
4. PROVIDE SMOKE DETECTOR FOR ACTIVATION OF ELEVATOR RECALL.
5. COORDINATE SPACING FOR ALL ELECTRICAL EQUIPMENT WITH ELEVATOR SUPPLIER/INSTALLER PRIOR TO ROUGH-IN.
6. PROVIDE DEDICATED PHONE LINE IN (1") CONDUIT TO TELEPHONE TERMINAL BOARD AND ALL PERTINENT TERMINATIONS UNLESS OTHERWISE NOTED. COORDINATE EXACT REQUIREMENTS AND LOCATION OF TERMINATION WITH ELEVATOR VENDOR.
7. PROVIDE SURFACE MOUNTED FLUORESCENT STRIP LIGHT WITH WIRE GUARD. LAMPS GUARDED WITH CLEAR PLASTIC SLEEVES. TWO 32 WATT T8 LAMPS. MOUNT ONE LUMINAIRE ON THE FRONT ELEVATOR PIT WALL. THE SECOND ON THE OPPOSITE WALL. MOUNT LUMINAIRES SUCH THAT LIGHT IS NOT OBSTRUCTED BY BEAMS OR OTHER STRUCTURES. THE LIGHT FIXTURES SHALL BE WIRED AND CONNECTED ON THE LINE SIDE (AHEAD OF) THE GFI RECEPTACLES SHOWN.
8. MOUNT WEATHERPROOF TOGGLE SWITCH FOR PIT LIGHTING CIRCUIT SO THAT IT IS READILY ACCESSIBLE FROM THE PIT ACCESS LADDER.
9. PROVIDE STANDARD (NON-GFI) OUTLET FOR ELEVATOR PIT SUMP PUMP. MOUNT ON AREA OF PIT WALL ADJACENT TO SUMP HOLE. PROVIDE DEDICATED CIRCUIT. SEE PANEL SCHEDULES FOR CIRCUIT NUMBER.
10. STOP SWITCH BY ELEVATOR VENDOR:
    a. RE OF THE MANUALLY OPENED AND CLOSED TYPE.
    b. HAVE A RED OPERATING HANDLE OR BUTTON.
    c. BE CONSPICUOUSLY AND PERMANENTLY MARKED "STOP", AND SHALL INDICATE THE "STOP" AND "RUN" POSITIONS.
    d. MOUNT THE SWITCH ADJACENT TO THE NEAREST POINT OF ACCESS TO ITS PIT FROM THE ACCESS DOOR.
11. PROVIDE DEDICATED LOCKABLE 30-AMP/1-POLE FUSED DISCONNECT WITH 20-AMP FUSES WITH DEDICATED 120-VOLT, 20-AMP CIRCUIT FOR ELEVATOR CAR LIGHTING, ALARM CIRCUIT. PROVIDE GFCI BREAKER IN SOURCE PANEL.
12. CONNECT FIRE ALARM SYSTEM FOR MONITORING OF CONTROL POWER AND ELEVATOR EMERGENCY RECALL OPERATION. PROVIDE (4)#12, (1)#12G, 3/4"C.
13. PROVIDE ADDRESSABLE FIRE ALARM CONTROL RELAY AND WIRING AND ALL PERTINENT TERMINATIONS TO ELEVATOR CONTROLLER/DRIVE FOR ELEVATOR PRIMARY RECALL. SEE WIRING SCHEMATIC.
14. PROVIDE ADDRESSABLE FIRE ALARM CONTROL RELAY FROM PANEL TO ELEVATOR CONTROLLER FOR ELEVATOR ALTERNATE RECALL. SEE WIRING SCHEMATIC.
15. PROVIDE ADDRESSABLE FIRE ALARM CONTROL RELAY AND WIRING AND ALL PERMANENT TERMINATIONS FROM PANEL TO ELEVATOR CONTROLLER TO ACTIVATE FIREMAN HAT LIGHT IN ELEVATOR CAB UPON INITIATION OF HEAT DETECTION IN ELEVATOR HOISTWAY.
16. MOUNT SMOKE DETECTOR IN ELEVATOR LOBBY ON CEILING TO WITHIN 21'-0" OF ELEVATOR DOOR.
17. PROVIDE AN ILLUMINATED SIGN MARKED "ELEVATOR EMERGENCY POWER" IN THE ELEVATOR LOBBY AT THE DESIGNATED LEVEL TO INDICATE THAT THE NORMAL (UTILITY) POWER HAS FAILED AND THE EMERGENCY OR STANDBY POWER IS IN EFFECT.
18. PROVIDE CONTROL WIRING BETWEEN GENERATOR ATS AND ELEVATOR CONTROLLER. COORDINATE WITH ELEVATOR INSTALLER AND ATS MANUFACTURER APPROVED SHOP DRAWINGS.
19. ADVISE ENGINEER IF SPRINKLER REQUIREMENT IS REMOVED BY AHJ. COORDINATE WITH SPRINKLER CONTRACTOR IN FIELD.
20. CONTROL WIRING FROM FIRE ALARM SYSTEM TO ACTIVATE/DEENERGIZE SHUNT TRIP BREAKER ON WCI SPRINKLER FLOW AND CONTROL CIRCUIT MONITORING. PROVIDE (4)#12, (1)#12G, 3/4"C FOR THIS PURPOSE. COORDINATE/CONFIRM REQUIREMENT WITH ELEVATOR INSTALLER AND FIRE ALARM VENDOR.

ELEVATOR ELECTRICAL WORK DETAIL

ADVISE ENGINEER IF GENERATOR ALT. IS NOT ACCEPTED

REVISIONS:

- 02-23-18 DRAWING RE-ISSUED NO CHANGES

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ELECTRICAL DETAILS
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DATE: 0-31-2017
DRAWN BY: DS
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DRAW NO #:
MR-E3.5

LIGHTING FIXTURE SCHEDULE - MIDRISE ADDENDUM

TYPE	DESCRIPTION	LAMP	VOLT/BALLAST	MOUNTING	DESIGN MAKE	ALTERNATE MANUFACTURER	NOTES	LOCATIONS
B	4" SQUARE DOWNLIGHT, WHITE FINISH	10W LED, 3000K, 800 LUMENS	120V	SURFACE CEILING	LITON LIGHTING LDL10W-T30	ALTERNATE MANUFACTURERS ARE ACCEPTABLE	1, 2, 3, 4, 7, 8, 9	LED - PROVIDE EMERGENCY DRIVER WHERE SHOWN - NOTE 9
B1	EXTERIOR DOWNLIGHT, SOFFIT MOUNTED, WET LOCATION, FINISH PER ARCHITECT, WHITE ACRYLIC TRIM	10W LED, 800 LUMENS, 3000K, PROVIDED WITH 40W EQUIVALENT	120V	RECESSED CEILING	DAY LIGHTING DWL10W-CA-D120-W-WH-WH	ALTERNATE MANUFACTURERS ARE ACCEPTABLE	1, 2, 3, 4, 7, 8, 9	LED - PROVIDE EMERGENCY DRIVER WHERE SHOWN - NOTE 9
CF1	12" DIAMETER BEDROOM CEILING LIGHT	16W LED, 2700K, 875 LUMENS	120V	SURFACE CEILING	SUNLITE 40040 LF16W-1500-E-D-30K	ALTERNATE MANUFACTURERS ARE ACCEPTABLE	1, 2, 3, 4, 7, 8	
DP	OPAL GLASS BRUSHED NICKEL DOUBLE MULTI LIGHT PENDANT	LED	120V	SURFACE CEILING	LAMPS PLUS 30473 V1106	ALTERNATE MANUFACTURERS ARE ACCEPTABLE	1, 2, 3, 4, 7, 8	
F2	4 FOOT UTILITY LIGHT W/ LED TUBE LAMPS, DAMPABLE	2 LAMP LED TUBE LAMPS, 24-WATTS, 2400 LUMENS	120V	SURFACE CEILING	NEW ENGLAND LIGHTING SENSER W/ TWO LED ADVANTAGE 4FT LEDMED-4100-830-D FBN LAMPS	ALTERNATE MANUFACTURERS ARE ACCEPTABLE	1, 2, 3, 4, 7, 8, 9	LED - PROVIDE EMERGENCY DRIVER WHERE SHOWN - NOTE 9
F3	THE HIGHLINE DAY BRITE / PHILIPS CPI STAIRWELL LED WALL MOUNT OFFERS DUAL LEVEL LIGHTING TO BALANCE ENERGY SAVINGS WITH A FEELING OF SECURITY. AN INTEGRATED MOTION SENSOR AND DUAL LEVEL BALLAST PROVIDE STANDBY LOW LEVEL LIGHT, AND UPON DETECTION OF MOTION IN	9 WW DIMMING DRIVER, 2300-4200 LUMENS, 4000K	120V	SURFACE CEILING/WALL	PHILIPS DAY BRITE SFMCDIM DIRECT UP/DN LED	ALTERNATE MANUFACTURERS ARE ACCEPTABLE	1, 2, 3, 4, 7, 8, 9	LED - PROVIDE EMERGENCY DRIVER WHERE SHOWN - NOTE 9
F	LED CEILING FIXTURE 14" DIAMETER BRUSHED NICKEL, WITH WHITE ACRYLIC LENS	22W LED, 3000K, 1400 LUMENS	120V	SURFACE CEILING	SUNLITE 40010 LEDCR3-D15-E-D-30K	ALTERNATE MANUFACTURERS ARE ACCEPTABLE	1, 2, 4, 7, 8	
G	24" LED BATHROOM VANITY FIXTURE, SATIN PLATINUM FINISH, MOUNTING HEIGHT TO CLEAR MIRROR	24W LED, 2700K, 1600 LUMENS	120V	SURFACE WALL	SUNLITE 40070 LF24W-2-W-D-30K	ALTERNATE MANUFACTURERS ARE ACCEPTABLE	1, 3, 4, 5, 7, 8	
WP	OUTDOOR WALL PACK	16W LED, 1000 LUMENS, 4000K	120V	SURFACE WALL	LEDALIN LNS WPC 20-48	ALTERNATE MANUFACTURERS ARE ACCEPTABLE		
SC	OUTDOOR RECESS LUMINAIRE	10W LED, 500 LUMENS, 2700K	120V	SURFACE WALL	WOODCRAFT RECESS WC W16-16 BZ	ALTERNATE MANUFACTURERS ARE ACCEPTABLE	1, 2, 4, 7, 8	
P	14.5" LED GLOBE STYLE PENDANT FIXTURE - HANGS DOWN GLOSSY WHITE OPAL, TRIPLE LAYER GLASS. BRUSHED BRASS HOLDER	TBRM 2700, 1,000 LUMENS 80+ CRI	120V, INPUT WATTS OR LEDS DIMMING	PENDENT	LOUIS POULSEN VL-45 P 14.5 N 1 120W LED-A-27-WCD-120V	ALTERNATE MANUFACTURERS ARE ACCEPTABLE	1, 2, 3, 4, 7, 8, 9	LED - PROVIDE EMERGENCY DRIVER WHERE SHOWN - NOTE 9
P1	URBAN LANDSCAPE LED POST TOP URBAN LUMINAIRE ON 4.4 INCH ROUND ALUMINUM 10' POLE	31W LED, 4000K, 3000 LUMENS	120V	POLE MOUNTED	BOLLERO VDL-#0LED-P10V-FT3-DL	ALTERNATE MANUFACTURERS ARE ACCEPTABLE		
P2	URBAN LANDSCAPE LED POST TOP URBAN LUMINAIRE ON 4.4 INCH ROUND ALUMINUM 14' POLE	31W LED, 4000K, 3000 LUMENS	120V	POLE MOUNTED	BOLLERO VDL-#0LED-P10V-FT3-DL	ALTERNATE MANUFACTURERS ARE ACCEPTABLE		
EX	LED EMERGENCY EXIT SIGN - SINGLE OR DOUBLE FACE, RECESSED, NIMH BATTERY, RED LETTERS CLEAR PANEL, FIELD APPLIED OR EXTERNAL SELF TEST / SELF DIAGNOSTIC STANDARD	LED	NIMH BATTERY	RECESSED	EXTRONICS EXIT [illegible] 4-W1-RC-R-C3A-G7	ALTERNATE MANUFACTURERS ARE ACCEPTABLE		

ADDENDUM, No. 1

1. PROVIDE LAMPS AND BALLASTS MEETING IEEE AS FOLLOWS: MINIMUM HIGH EFFICACY LAMPS 90 LUMENS PER WATT COMPLETE LAMP AND BALLAST INFORMATION ARE MANDATORY REQUIREMENT IN THIS SUBMITTAL. ALL LAMPS SHALL BE DAMPABLE TYPE.
2. SUSPENDED LIGHT FIXTURES MUST BE SUPPORTED AT ALL FOUR CORNERS OR TWO CORNERS AS REQUIRED TO STABILIZE DIRECTLY TO STRUCTURE ABOVE AND INDEPENDENTLY OF CEILING. SEE ARCHITECTURAL REFLECTED CEILING PLANS & 400 SERIES FOR CLARIFICATION. PROVIDE CEILINGS, FIELDS AND TRIM AS ABOVE/BELOW. COORDINATE WITH FIELD ARCHITECT FOR SUPPORT DETAILS AND MOUNTING PRIOR TO SHOP DRAWING PROCESS.
3. PROVIDE WARM COLOR LIGHTING (3000K OR LESS) SUITED FOR RESIDENTIAL THROUGHOUT BUILDING. PROVIDE MOCKUP FIXTURES AS REQUESTED TO ENSURE COMPLIANCE WITH THIS STRICT REQUIREMENT.
4. SEE ARCHITECTURAL PLANS AND ELEVATIONS FOR LUMINAIRE MOUNTING HEIGHTS AND CEILING TYPES.
5. PROVIDE JUNCTION BOX LOCAL TO EACH FIXTURE, SUITED FOR CONNECTION TO CORD PROVIDED WITH UNIT
6. MOUNT WALL FIXTURE ABOVE 5 FT MINIMUM. EXTEND POWER WIRING AS REQUIRED FROM CEILING. FOR STAIRS, MOUNT WALL FIXTURE 7 FEET AFF, EXTEND POWER WIRING AS REQUIRED FROM CEILING.
7. MANUFACTURER CATALOG NUMBERS ARE FOR DESIGN ONLY. PROVIDE SPECIFIC OPTIONS AS NEEDED TO PROVIDE COMPLETE LIGHTING SYSTEMS AND TO MATCH CEILING OR WALL TYPE
8. PROVIDE TIRE RATED BOX FOR EACH FIXTURE IN TIRE RATED LOCATIONS SHOWN ON ARCHITECTURAL PLANS. BASIS OF DESIGN MAKE IS FIRE RATED PRODUCT SPECIALTIES MODEL FN 2 16 H 9
COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLANS TO DETERMINE WHICH LIGHTS ARE SPECIFICALLY REQUIRED TO HAVE THE RATING ENCLOSURES.
9. FOR FIXTURE TYPES THAT ARE NOT AVAILABLE WITH EMERGENCY DRIVERS, PROVIDE REMOTE INVERTER WITH 3 WIRE CIRCUITRY. BASIS OF DESIGN MAKE IS BODINE CLB 108 FOR EVERY 100 WATTS OF EM LIGHTS

MOTOR AND EQUIPMENT SCHEDULE

TAG	DESCRIPTION	LOCATION	LOAD HP	LOAD KW	LOAD VOLTS	LOAD PHASE	DEVICE CIRCUIT BREAKER	DEVICE POWER SOURCE	DEVICE FROM POWER SOURCE TO CONTROL UNIT	DEVICE FROM CONTROLLER TO MOTOR	CONTROLLER PROVIDED BY DIV 26	EQUIPMENT FURNISHED BY DIV 23 AND WIRED BY DIV 26	EQUIPMENT FURNISHED BY DIV 26 AND INSTALLED BY DIV 23	FIRE ALARM FAN SHUTDOWN	NOTES
AHU-1	HOUSTON UNIT	ROOF	1.5		120	1	15	VFD-1	3#12 #12G, 3/4" NC	3#12 #12G, 3/4" NOTE 9	-	VFD - SEE NOTE 5		*	1, 2, 3, 4, 8,
SUH-1	SOLCH	MECH RM			120	1	20	VFD-1	2#12 #12G, 3/4" NC		FWD	PCU	VFD - NOTE 9		2, 3
SUH-2	SOLCH	MECH RM			120	1	20	VFD-1	2#12 #12G, 3/4" NC		FWD	PCU	VFD - NOTE 9		2, 3
SUH-3	20A CHECKED KITCHEN HOOD	BASEMENT	2.0		208	3	15	VFD-1	3#12 #12G, 3/4" CONDUIT	3#12 #12G, 3/4" CONDUIT	FWD	VFD - SEE NOTE 5	VFD - NOTE 9		2, 3
SUH-4	20A CHECKED KITCHEN HOOD	BASEMENT	2.0		208	3	15	VFD-1	3#12 #12G, 3/4" CONDUIT	3#12 #12G, 3/4" CONDUIT	FWD	VFD - SEE NOTE 5	VFD - NOTE 9		2, 3
CU-1	HOUSTON CONDENSER	SEE PLANS	1.0	0.8	208	1	20	VFD-1	2#12 #12G, 3/4" NC			PCU			2
	ELEVATOR POWER	TWO		20	208	3	125	VFD-1	3#1 #6G, 1 1/4" NC	3#1 #6G, 1 1/4" NC		PCU	VFD		2
	ELEVATOR LIGHT	TWO		8	120	1	25	VFD-1	2#12 #12G, 3/4" NC			PCU	VFD		2
CU-1	SPLIT CHILLER VENTILATION	SEE PLANS		0.67	208	3	20	VFD-1	3#12 #12G, 3/4" NC			PCU			2
CU-2	SPLIT CHILLER VENTILATION	SEE PLANS		0.67	208	3	20	VFD-1	3#12 #12G, 3/4" NC			PCU			2
CU-CH-1-1	CONDENSING UNIT CHILLER	SEE PLANS		41	208	3	40	VFD-1	3#4 #10G, 1 1/4" NC			PCU			2, 6, 7, 10
CU-CH-1-2	CONDENSING UNIT CHILLER	SEE PLANS		41	208	3	40	VFD-1	3#4 #10G, 1 1/4" NC			PCU			2, 6, 7, 10
EF-1, 2, 3, 4	EXHAUST FAN	SEE PLANS	0.5		208	3	20	EB-1	3#12 #12G, 3/4" NC						2
EF-5, 6, 7	EXHAUST FAN	SEE PLANS	1.0	0.8	120	1	20	VFD-1	2#12 #12G, 3/4" NC		VFD				2
EF-8, 9, 10	EXHAUST FAN	SEE PLANS	3.0		208	3	15	VFD-1	3#12 #12G, 3/4" NC	3#12 #12G, 3/4" NOTE 9		VFD - SEE NOTE 5		-	1, 2, 9
EF-11	EXHAUST FAN	SEE PLANS		0.5	120	1	20	VFD-1	2#12 #12G, 3/4" NC		VFD		VFD		2
EF-12	EXHAUST FAN	SEE PLANS		0.5	120	1	20	VFD-1	2#12 #12G, 3/4" NC			PCU		*	2, 5, 4, 9
P-1	HYDRONIC PUMP	MECH RM	0.5	0.37	208	3	20	VFD-1	3#12 #12G, 3/4" CONDUIT	3#12 #12G, 3/4" NOTE 9		VFD - SEE NOTE 5	VFD		2, 9, 4
P-2	HYDRONIC PUMP	MECH RM	0.5	0.37	208	3	20	VFD-1	3#12 #12G, 3/4" CONDUIT	3#12 #12G, 3/4" NOTE 9		VFD - SEE NOTE 5	VFD		2, 9, 4
P-3	HYDRONIC PUMP	MECH RM	0.5	0.37	208	3	20	VFD-1	3#12 #12G, 3/4" CONDUIT	3#12 #12G, 3/4" NOTE 9		VFD - SEE NOTE 5	VFD		2, 9, 4
P-4	HYDRONIC PUMP	MECH RM	0.5	0.37	208	3	20	VFD-1	3#12 #12G, 3/4" CONDUIT	3#12 #12G, 3/4" NOTE 9		VFD - SEE NOTE 5	VFD		2, 9, 4
WH-1	WATER HEATER	SEE PLANS			120	1	20	VFD-1	2#12 #12G, 3/4" NC		VFD		VFD		2
CU-CH-1-1-1	CONDENSING UNIT CHILLER	ROOF	0.5	0.5	208	1	20	VFD-1	2#12 #12G, 3/4" NC		VFD		VFD		2

ABBREVIATIONS:

COMB - COMBINATION MAGNETIC STARTER
VFD - MOTOR STARTER SWITCH
PRB - PROGRAMMABLE TIMER SWITCH
PCU - PACKAGED CONTROL UNIT
VFD - VARIABLE FREQUENCY DRIVE
FSS - NON FUSED SAFETY SWITCH
FRS - FUSED SAFETY SWITCH
DS - INTEGRAL DISCONNECT SWITCH
EHH - ELECTRIC HEATER ACCESSORY
LVT - LINE VOLTAGE THERMOSTAT
CWS - CHEMICAL WATER SENSOR

NOTES:
1. PACKAGED CONTROL UNIT PROVIDE SINGLE POINT CONNECTION SUPPLIED WITH INTERNAL MOTOR DISTRIBUTION, FULLY POWERED RECEPTACLES AND DISCONNECT AS APPLICABLE.
2. ELECTRICAL CONTRACTOR (EC) SHALL BE RESPONSIBLE TO COORDINATE WITH GENERAL CONTRACTOR (GC) MECHANICAL CONTRACTOR (MC), PLUMBING CONTRACTOR (PC) AND TEMPERATURE CONTROLS CONTRACTOR (TC) FOR APPROVED EQUIPMENT SUBMITTAL ELECTRICAL DATA. ELECTRICAL CONTRACTOR (EC) SHALL BE RESPONSIBLE TO PROVIDE ADJUSTMENTS TO SIZES OF ELECTRICAL EQUIPMENT AS SHOWN IN ACCORDANCE WITH MC AND PC AND ARCHITECT IF ANY CHANGES ARE APPLICABLE. ELECTRICAL CONTRACTOR SHALL ALSO CHECK ALL ELECTRICAL EQUIPMENT MANUFACTURED IN FIELD AND ADVISE ENGINEER AND ARCHITECT IF ANY CHANGE FROM WHAT IS FOUND IN THE PLANS ON CONTRACT DOCUMENTS.
3. DUCT SMOKE DETECTORS SHALL BE PROVIDED WITH REMOTE TEST SWITCH IN A LOCATION ACCESSIBLE AND ACCEPTABLE TO THE LOCAL FIRE DEPARTMENT. PROVIDE DUCT SMOKE ALARM INDICATOR IN THE CEILING OR WALL BELOW THE DETECTOR.
4. DUCT SMOKE DETECTORS AND FURNISHED BY THE ELECTRICAL CONTRACTOR, INSTALLED IN THE DUCT WORK BY THE MECHANICAL CONTRACTOR AND WIRED BY THE ELECTRICAL CONTRACTOR. PROVIDE SUPERVISED RELAY AND WIRING TO MOTOR CONTROL CIRCUIT TO ACTUATE FAN SHUTDOWN. COORDINATE WITH MECHANICAL CONTRACTOR.
5. MC TO EXPERIMENT TO FOR INSTALLATION AND WIRING OF VFD BY EC. FOR LOCATED PROVIDE AUXILIARY CONTACTS ON LOCAL DISCONNECT AND 3/4" PVC POWER CONDUIT TO VFD CABLE. F DISCONNECT IS REQUIRED.
6. PROVIDE RECEPTACLE AS INDICATED LOCAL TO UNIT AND IN COMPLIANCE WITH NEC.
7. PROVIDE CONTROL WIRING BETWEEN INDOOR UNITS AND OUTDOOR UNITS OF COMMON SYSTEM. PER MECH PLANS. BASIS OF DESIGN IS 2 TON N 3-4 INCH DAISY CHAINED. TERMINATE PER MANU
8. PROVIDE VFD CABLE FOR RUNS EXCEEDING 100 FEET AS OPPOSED TO THIN CONDUCTORS IN RACEWAY. BASIS OF DESIGN DELUXE VFD CABLE. SEE AR INDICATED.
9. WIRE EFD SWITCH IN SERIES WITH POWER CONTACTOR TO SHUTDOWN ALL CONTROL. SEE WIRING DETAIL.
10. PROVIDE NEMA 3R DISCONNECTS FOR OUTDOOR DISCONNECTS

REVISIONS:

△1 02-23-18 ADDENDUM 1 UPDATED DRAWING RE-ISSUED

HESNOR

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ELECTRICAL SCHEDULES
Construction Documents MIDRISE

DATE: 02/21/2017
DRAWN BY: DS
JOB #: 17-05
SCALE: NTS
DRAWING #:
MR-E4.1

PANELBOARD SCHEDULE — LP-1

VOLTS: 208Y/120 | PHASE: 3 | WIRE: 4 | MAINS RATING: MCB 100 | BUS: | MAIN BRKR: | AIC RATING: 42kA | BRKR SPACE: 42 | MTG: NEMA 1 | LOCATION: MECHANICAL | SOURCE: MDP-1 | FEEDER: SEE RISER

#	TYPE	LOAD DESCRIPTION	BRKR AMP	POLE	PH A	PH B	PH C	POLE	BRKR AMP	LOAD DESCRIPTION	TYPE	#
1	PWR	LIGHTING CIRCUIT (ON/OFF)	20	1				1	20	LIGHTING CIRCUIT (ON/OFF)	PWR	2
3	PWR	LIGHTING CIRCUIT (ON/OFF)	20	1				1	20	LIGHTING CIRCUIT (ON/OFF)	PWR	4
5	PWR	LIGHTING CIRCUIT (ON/OFF)	20	1				1	20	LIGHTING CIRCUIT (ON/OFF)	PWR	6
7	PWR	LIGHTING CIRCUIT (ON/OFF)	20	1				1	20	LIGHTING CIRCUIT (ON/OFF)	PWR	8
9	PWR	LIGHTING CIRCUIT (ON/OFF)	20	1				1	20	LIGHTING CIRCUIT (ON/OFF)	PWR	10
11	PWR	LIGHTING CIRCUIT (ON/OFF)	20	1				1	20	LIGHTING CIRCUIT (ON/OFF)	PWR	12
13	PWR	LIGHT POLES (VIA LIGHTING RELAY)	20	2				1	20	SPARE	PWR	14
15	PWR							1	20	SPARE	PWR	16
17	PWR	LIGHT POLES (VIA LIGHTING RELAY)	20	2				1	20	SPARE	PWR	18
19	PWR							1	20	SPARE	PWR	20
21	PWR	LIGHT POLES (VIA LIGHTING RELAY)	20	2				1	20	SPARE	PWR	22
23	PWR							1	20	SPARE	PWR	24
25	PWR	SPARE	20	1				1	20	SPARE	PWR	26
27	PWR	SPARE	20	1				1	20	SPARE	PWR	28
29	PWR	SPARE	20	1				1	20	SPARE	PWR	30
31	PWR	SPARE	20	1				1	20	SPARE	PWR	32
33	PWR	SPARE	20	1				1	20	SPARE	PWR	34
35	PWR	SPARE	20	1				1	20	SPARE	PWR	36
37	PWR	SPARE	20	1				1	20	SPARE	PWR	38
39	PWR	SPARE	20	1				1	20	SPARE	PWR	40
41	PWR	SPARE	20	1				1	20	SPARE	PWR	42
TOTAL CONNECTED LOAD PER PHASE								NOTE: PROVIDE SUN FEED LUGS				
TOTAL CONNECTED LOAD												

PANELBOARD SCHEDULE — MDP-1

VOLTS: 208Y/120 | PHASE: 3 | WIRE: 4 | MAINS RATING: MCB - | BUS: 800 | MAIN BRKR: | AIC RATING: 42kA | BRKR SPACE: AS SHOWN | MTG: NEMA 1 | LOCATION: MECHANICAL ROOM | SOURCE: MDP | FEEDER: SEE POWER RISER

#	TYPE	LOAD DESCRIPTION	BRKR AMP	POLE	PH A	PH B	PH C	POLE	BRKR AMP	LOAD DESCRIPTION	TYPE	#
1	PWR	PANEL LP-1									PWR	2
3	PWR	MAIN ELECTRICAL ROOM	100	3				3	250	SB-1 VIA ATS-SB1	PWR	4
5	PWR										PWR	6
7	PWR	PANEL MP-1									PWR	8
9	PWR	MAIN ELECTRICAL ROOM	150	3				3	250	CHILLER CHLR-1	PWR	10
11	PWR										PWR	12
13	PWR										PWR	14
15	PWR	ERV-1 ENERGY VENTILATOR	150	3				3	225	CHILLER CHLR-2	PWR	16
17	PWR										PWR	18
19	PWR	PANEL PP-1									PWR	20
21	PWR	MAIN ELECTRICAL ROOM	100	3				3	25	PUMP P-C1	HVAC	22
23	PWR										HVAC	24
25	PWR										HVAC	26
27	PWR	ELEVATOR NO 2	150	3				3	100	PUMP P-C2	HVAC	28
29	PWR										HVAC	30
31	PWR										HVAC	32
33	PWR	SPARE 100A	100	3				3	50	PUMP P-B1A	HVAC	34
35	PWR										HVAC	36
37	PWR										HVAC	38
39	PWR	SPARE 100A	150	3				3	50	PUMP P-B1B	HVAC	40
41	PWR										HVAC	42
TOTAL CONNECTED LOAD PER PHASE								NOTE: HOUSE POWER DISTRIBUTION				
TOTAL CONNECTED LOAD												

DEMAND/DIVERSITY FACTOR SCHEDULE

LOAD TYPE	DEMAND	DIVERSITY	PH A (kW)	PH B (kW)	PH C (kW)	Total kW
LIGHTING (LTG)	100%	100%				
MOTOR (MOTOR)	100%	100%				
COMPUTER RECEPTACLE (RC)	100%	100%				
KITCHEN (K)	100%	100%				
HVAC (HVAC)	100%	100%				
ELECTRIC HEAT (EH)	100%	100%				
OTHER (OT)	100%	100%				
TOTAL ANTICIPATED LOAD						

Power Factor: 0.8
Total kVA: _____
Total Amps: _____

PANELBOARD SCHEDULE — MP-1

VOLTS: 208Y/120 | PHASE: 3 | WIRE: 4 | MAINS RATING: MCB 150 | BUS: | MAIN BRKR: | AIC RATING: 42kA | BRKR SPACE: 72 | MTG: NEMA 1 | LOCATION: MECHANICAL ROOM | SOURCE: | FEEDER: SEE RISER

#	TYPE	LOAD DESCRIPTION	BRKR AMP	POLE	PH A	PH B	PH C	POLE	BRKR AMP	LOAD DESCRIPTION	TYPE	#
1	PWR	RANGE, INSTITUTIONAL	20	1							PWR	2
3	PWR	RANGE, INSTITUTIONAL	20	1				3	15	BOILER CIRCULATION PUMPS BP-1	PWR	4
5	PWR	RANGE, INSTITUTIONAL	20	1							PWR	6
7	PWR	RANGE, INSTITUTIONAL	20	1							PWR	8
9	PWR	RANGE, INSTITUTIONAL	20	1				3	15	BOILER CIRCULATION PUMPS BP-2	PWR	10
11	PWR	RANGE, INSTITUTIONAL	20	1							PWR	12
13	PWR	RANGE, INSTITUTIONAL	20	1							PWR	14
15	PWR	RANGE, INSTITUTIONAL	20	1				3	60	CHILLER CH-CHLR-1	PWR	16
17	PWR	RANGE, INSTITUTIONAL	20	1							PWR	18
19	PWR	SPARE 20A	20	1							PWR	20
21	PWR	SPARE 20A	20	1				3	30	CHILLER CH-CHLR-2	PWR	22
23	PWR	SPARE 20A	20	1							PWR	24
25	PWR	SPARE 20A	20	1				1	20	EXHAUST FAN EF-K2	PWR	26
27	PWR	SPARE 20A	20	1				1	20	EXHAUST FAN EF-K3	PWR	28
29	PWR	SPARE 20A	20	1				1	20	EXHAUST FAN EF-K4	PWR	30
31	PWR	SPARE (EAST WING CH 1/2)	20	1				1	20	SPARE 20A	PWR	32
33	PWR	EAST WING HEATER (SEAT WING)	20	1							PWR	34
35	PWR	EAST WING HEATER (SEAT WING)	20	1				3	20	SPARE 20A	PWR	36
37	PWR	EAST WING HEATER (SEAT WING)	20	1							PWR	38
39	PWR	EAST WING HEATER (SEAT WING)	20	1				1	20	SPARE 20A	PWR	40
41	PWR	EAST WING HEATER (SEAT WING)	20	1				1	20	SPARE 20A	PWR	42
43	PWR	EAST WING HEATER (SEAT WING)	20	1				1	20	SPARE 20A	PWR	44
45	PWR	EAST WING HEATER (SEAT WING)	20	1				1	20	SPARE 20A	PWR	46
47	PWR	EAST WING HEATER (SEAT WING)	20	1				1	20	SPARE 20A	PWR	48
49	PWR	EAST WING HEATER (SEAT WING)	20	1							PWR	50
51	PWR	EAST WING HEATER (SEAT WING)	20	1				2	15	EXHAUST FAN EF-AHU1	PWR	52
53	PWR	EAST WING HEATER (SEAT WING)	20	1							PWR	54
55	PWR	EAST WING HEATER (SEAT WING)	20	1				1	20	SPARE 20A	PWR	56
57	PWR	EAST WING HEATER (SEAT WING)	20	1				1	20	SPARE 20A	PWR	58
59	PWR	EAST WING HEATER (SEAT WING)	20	1				1	20	SPARE 20A	PWR	60
61	PWR	AIR HANDLING UNIT AHU-1	20	3				1	20	WATCHDOG DAMPER POWER	PWR	62
63	PWR							1	20	WATCHDOG DAMPER POWER	PWR	64
65	PWR							1	20	WATCHDOG DAMPER POWER	PWR	66
67	PWR	SPARE 20A	20	3				1	20	WATCHDOG DAMPER POWER	PWR	68
69	PWR							1	20	SPARE 20A	PWR	70
TOTAL CONNECTED LOAD PER PHASE								NOTE:				
TOTAL CONNECTED LOAD												

PANELBOARD SCHEDULE — PP-1

VOLTS: 208Y/120 | PHASE: 3 | WIRE: 4 | MAINS RATING: MCB 100 | BUS: | MAIN BRKR: | AIC RATING: 42kA | BRKR SPACE: 42 | MTG: NEMA 1 | LOCATION: MECHANICAL ROOM | SOURCE: MDP-1 | FEEDER: SEE RISER

#	TYPE	LOAD DESCRIPTION	BRKR AMP	POLE	PH A	PH B	PH C	POLE	BRKR AMP	LOAD DESCRIPTION	TYPE	#
1	PWR	GROUND FLOOR OUTLETS	20	1				1	20	BATHROOM EXHAUST FAN	PWR	2
3	PWR	GROUND FLOOR OUTLETS	20	1				1	20	KITCHEN HOOD WASTE DISPOSAL	PWR	4
5	PWR	BASEMENT HALLWAY OUTLETS	20	1				1	20	MECHANICAL RM OUTLETS	PWR	6
7	PWR	FIRST FLOOR OUTLETS	20	1				1	20	SPARE 20A	PWR	8
9	PWR	FIRST FLOOR OUTLETS	20	1				1	20	SPARE 20A	PWR	10
11	PWR	SECURITY ACCESS CONTROL	20	1				1	20	SPARE 20A	PWR	12
13	PWR	SECURITY ACCESS CONTROL	20	1				1	20	SPARE 20A	PWR	14
15	PWR	SECURITY ACCESS CONTROL	20	1				1	20	SPARE 20A	PWR	16
17	PWR	FIRE ALARM PANEL	20	1				2	30	LAUNDRY DRYER 1, GRID FLR	PWR	18
19	PWR	SECOND FLOOR OUTLETS	20	1							PWR	20
21	PWR	SECOND FLOOR OUTLETS	20	1				2	30	LAUNDRY DRYER 2, GRID FLR	PWR	22
23	PWR	THIRD FLOOR OUTLETS	20	1							PWR	24
25	PWR	THIRD FLOOR OUTLETS	20	1				2	30	LAUNDRY DRYER 3, GRID FLR	PWR	26
27	PWR	FOURTH FLOOR OUTLETS	20	1							PWR	28
29	PWR	FOURTH FLOOR OUTLETS	20	1				2	30	LAUNDRY DRYER 4, GRID FLR	PWR	30
31	PWR	FOURTH FLOOR OUTLETS	20	1							PWR	32
33	PWR	FIFTH FLOOR OUTLETS	20	1				1	20	WASHER 1, GRID FLR	PWR	34
35	PWR	FIFTH FLOOR OUTLETS	20	1				1	20	WASHER 2, GRID FLR	PWR	36
37	PWR	FIFTH FLOOR OUTLETS	20	1				1	20	WASHER 3, GRID FLR	PWR	38
39	PWR	SPARE	20	1				1	20	WASHER 4, GRID FLR	PWR	40
41	PWR	SPARE	20	1				1	20	SPARE 20A	PWR	42
TOTAL CONNECTED LOAD PER PHASE								NOTE:				
TOTAL CONNECTED LOAD												

PANELBOARD SCHEDULE — SB-1

VOLTS: 208Y/120 | PHASE: 3 | WIRE: 4 | MAINS RATING: MCB - | BUS: 250 | MAIN BRKR: | AIC RATING: 42kA | BRKR SPACE: AS SHOWN | MTG: NEMA 1 | LOCATION: MAIN ELECTRICAL ROOM | SOURCE: MDP-1 | FEEDER: SEE POWER RISER

#	TYPE	LOAD DESCRIPTION	BRKR AMP	POLE	PH A	PH B	PH C	POLE	BRKR AMP	LOAD DESCRIPTION	TYPE	#
1	PWR										PWR	2
3	PWR	EXHAUST FAN EF-D-1	35	3				3	100	ELEVATOR	PWR	4
5	PWR										PWR	6
7	PWR										PWR	8
9	PWR	EXHAUST FAN EF-D-2	35	3				1	20	ELEVATOR CAR LIGHTS	PWR	10
11	PWR							1	20	ELEVATOR PIT RECEPTACLE	LTG	12
13	PWR	CORRIDOR RECEPT. FLOOR 1	20	1				1	20	LA MACHINE ROOM	PWR	14
15	PWR	CORRIDOR RECEPT. FLOOR 2	20	1				1	20	MIDDLE PUMP ELEVATOR	PWR	16
17	PWR	CORRIDOR RECEPT. FLOOR 3	20	1				1	20	GENERATOR BLOCK HEATER	PWR	18
19	PWR	CORRIDOR RECEPT. FLOOR 4	20	1				2	20	GENERATOR BLOCK HEATER	PWR	20
21	PWR	CORRIDOR RECEPT. FLOOR 5	20	1							PWR	22
23	PWR	CORRIDOR RECEPT. FLOOR 6	20	1				2	20	GENERATOR COOLANT HTR	PWR	24
25	PWR	CORRIDOR RECEPT. FLOOR 7	20	1				2	20	GENERATOR BATT. CHARGER	PWR	26
27	PWR	CORRIDOR RECEPT. FLOOR 8	20	1							PWR	28
29	PWR							1	20	SPARE		30
31	PWR	EXHAUST FAN EF-D-3	35	3				1	20	SPARE		32
33	PWR							1	20	SPARE		34
35	PWR							1	20	SPARE		36
37	PWR	SPARE	35	3				1	20	SPARE		38
39	PWR							1	20	SPARE		40
41	PWR							1	20	SPARE		42
TOTAL CONNECTED LOAD PER PHASE								NOTE: 1) SHARE POWER ON FUTURE GENERATOR				
TOTAL CONNECTED LOAD												

DEMAND/DIVERSITY FACTOR SCHEDULE

LOAD TYPE	DEMAND	DIVERSITY	PH A (kW)	PH B (kW)	PH C (kW)	Total kW
LIGHTING (LTG)	100%	100%				
MOTOR (MOTOR)	100%	100%				
COMPUTER RECEPTACLE (RC)	100%	100%				
KITCHEN (K)	100%	100%				
HVAC (HVAC)	100%	75%				
ELECTRIC HEAT (EH)	100%	100%				
OTHER (OT)	100%	100%				
TOTAL ANTICIPATED LOAD						

Power Factor: 0.8
Total kVA: _____
Total Amps: _____

NEW PANELBOARD SCHEDULE - TYPICAL FOR EACH UNIT — PP-XX

VOLTS: 120/208 | PHASE: 1 | WIRE: 3 | MAINS RATING: MCB - | BUS: 100 AMP | MAIN BRKR: | AIC RATING: N/A | BRKR SPACE: 30 | MTG: NEMA 1 | LOCATION: UNIT CONDITIONING AREA | SOURCE: METER CENTER - MECH RM PP | FEEDER: SEE RISER UNIT PP-1

#	TYPE	LOAD DESCRIPTION	BRKR AMP	POLE	PH A	PH B	PH C	POLE	BRKR AMP	LOAD DESCRIPTION	TYPE	#
1	PWR	LIVING ROOM RECEPTS	20	1	*			1	15	RANGE, INSTITUTIONAL	PWR	2
3	PWR	KITCHEN RECEPTS	20	1	*			1	20	REFRIGERATOR	LTG	4
5	PWR	KITCHEN RECEPTS	20	1	*						PWR	6
7	PWR	BATHROOM	20	1		*		1	20	DISPOSAL	PWR	8
9	PWR	BEDROOM RECEPTS	20	1		*		1	20	DISHWASHER	PWR	10
11	*	HEATING CONTROLS	20	1	*			1	20	BOILER	PWR	12
13	*	HEATING CONTROLS	20	1	*							14
15	R	STOVE	30	2				1	20	SPARE		16
17								1	20	SPARE		18
19	PWR	LIVING ROOM LIGHTING	15	1				1	20	SPARE		20
21		SPARE	15	1				1	20	SPARE		22
23		SPARE	20	1				1	20	SPARE		24
25	PWR	DINING ROOM RECEPTS	20	1				1	20	SPARE		26
27	PWR							1	20	SPARE		28
29	PWR	WASHER	20	1	*			1	20	SPARE		30
TOTAL CONNECTED LOAD PER PHASE								NOTE: PROVIDE UNITED BRANCHES AT TYPE 1				
TOTAL CONNECTED LOAD								COMPLY AS DEFINED WITH NYS RESIDENTIAL CODE				

ADD. No. 1

ADD. No. 2
-OMIT THE SPARE CIRCUIT BREAKERS

REVISIONS:

△1 02-23-16 ADDENDUM 1 AND 2 UPDATES
-DRAWING RE-ISSUED

HESNOR
CONSULTING ENGINEERS & ASSOCIATES

dave sadowsky, architect, p.c.
socially conscious sustainable design / sadowskyarchitect.com

IDA YARBROUGH HOMES REDEVELOPMENT- Phase2
P.O.C. - 252 North Pearl St. Albany, NY 12210

ELECTRICAL SCHEDULES
Construction Documents
MIDRISE

DATE: 10 3 2017
DRAWN BY: DB
JOB #: 11-03
SCALE: NTS
DRAW NO #:
MR-E4.2

UTILITY ELECTRICAL SERVICE REQUEST STATUS
ESR NUMBER: TBD
ACTION STATUS: NOT PLACED, REQUIRE OWNER INFORMATION

KEYED NOTES

THIS SHEET

1. ELECTRICAL CONTRACTOR MUST PROVIDE THE FOLLOWING:
   A. TRANSFORMER PAD FOUNDATION PER NATIONAL GRID SPECIFICATIONS
   B. GROUNDING GRID PER NATIONAL GRID SPECIFICATIONS
   C. PRIMARY CABLE TRENCH, CONCRETE ENCASED W/ (2) 5"Ø OR AS DIRECTED BY UTILITY PLANNER/DESIGNER
   D. PAD MOUNTED TRANSFORMER FOUNDATION EXCAVATION
   E. BACKFILL ALL TRENCHING AFTER PRIMARY CABLE INSTALLATION BY NATIONAL GRID
   F. BOLLARDS, IF REQUIRED BY NATIONAL GRID
   G. OIL CONTAINMENT PAD PER NATIONAL GRID SPECIFICATIONS
2. VERIFY CIRCUIT BREAKER WITH MANUFACTURER.
3. RISER DEPICTS APARTMENT DESIGNATIONS FOR REFERENCE ONLY. CONTRACTOR SHALL OPTIMIZE APARTMENT DESIGNATIONS RELATIVE TO METER CENTER FINALIZED LOCATIONS APPROVED BY UTILITY METER DEPARTMENT. SUBMIT FINAL DESIGNATIONS AS PART OF SHOP DRAWINGS PROCESS.

GENERAL NOTES

1. FEEDER SCHEDULED BASED ON COPPER. CONTRACTOR TO ADJUST SIZES WHERE ALUMINUM IS USED, IF PERMITTED BY OWNER (DWG. E-3.2)
2. CONTRACTOR SHALL ADJUST CONDUCTOR SIZES FOR VOLTAGE DROP, DEPENDING ON FINAL PANEL/EQUIPMENT LOCATIONS, CONDUCTOR MATERIAL, APPROVED SHOP DRAWINGS FOR EQUIPMENT, ETC. PROVIDE SUBMITTAL FOR VOLTAGE DROP CALCULATIONS FOR ENGINEER TO REVIEW.

REVISIONS:

△ 02-23-18 ADDENDUM 1 AND 2 UPDATES -DRAWING RE-ISSUED

HESNOR

dave sadowsky, architect, p.c.
socially conscious sustainable design / sadowskyarchitect.com

IDA YARBROUGH HOMES REDEVELOPMENT - Phase2
P.O.C. - 252 North Pearl St, Albany, NY 12210

POWER RISER DIAGRAM
Construction Documents
MIDRISE

DATE: 10 3 2017
DRAWN BY: DB
JOB #: 17-03
SCALE: NTS
DRAWING #:
MR-E4.3

A·O·W ASSOCIATES INC.

30 Essex Street
Albany, NY 12206
Ph : (518)482-3400

Change Request

To: Dave Sadowsky
Dave Sadowsky, Architect P.C.
97 Maxon Road
Petersburgh, NY 12138
Ph: 518-658-2830

Number: COR 037
Date: 12/5/18
Job: 15-00136 Ida Yarbrough Phase II

We are pleased to offer the following specifications and pricing to make the following changes:

Detailed Description

Vinyl Base in lieu of Wood Base at Corridors 216, 316, 416, 516 and 616 as per AC-39

Pricing Summary

Running Trim - Labor	$	-3,420.00
Running Trim - Material	$	-651.00
Flooring Environment	$	2,233.00
Painting - Zapatanze's	$	-252.00
Subtotal:	$	-2,090.00
Total:	$	-2,090.00

If you have any questions, please contact me at 518-512-5492.

Submitted by: Al Burgazoli
AOW Associates, Inc

Approved by AOW ASSOCIATES, INC.:
Approved:
Date: 1.3.19

Approved by ARCHITECT:
Approved: _____
Date: _____

Approved by OWNER:
Approved: _____
Date: _____

A·O·W ASSOCIATES INC.
General Estimate

Sheet# of

Building:

Architects:

Estimate Number:

Estimator:

Date:

Description of Work	Total Estimated Quantity	Unit Price M'tl	Total Estimated Material Cost	Unit Price Labor	Total Estimated Labor Cost
AC-39 - Vinyl Base in lieu of Wood Base					
at Corridors x 16					
216 - 198 lf					
316 - 184 lf					
416 - 184 lf					
516 - 193 lf					
616 - 199 lf					
958 lf x 1.05 =					
Deduct Wood Base	<1006 lf>	.53	<507 74>	2 20	<2 213 20>
Deduct Wood Shoe	<1,006 lf>	.15	<143 70>	1 20	<1 207 20>
			<651 44>		<3 420 40>
					<651 44>
					<4 071 84>

Date:
12/4/2018
To:
AL BURGAZOLI
Customer PO:
15-00136

FLOORING Environment
200 Fillpoint Drive
Mechanicville, NY 12118
Ph: 518.383.5510 Fax:518.383.4740
Woman-Owned Business Enterprise

Change Order Request

21136
Job No: 9928
Request #: 3
CO #: 0

Invoice To:	*Job Name:*
AOW ASSOCIATES INC 30 ESSEX STREET ALBANY, NY 12206	IDA--PHASE 2 TANDUS/CENTIVA LARK DRIVE ALBANY, NY
AL BURGAZOLI Phone: Cell: (518) 857-7063- Pager: Fax: (518) 482-3444-	BILL KEEFER Phone: (518) 512-5490- Fax: (518) 482-3444-

From:	*Project Manager:*	*Estimator:*
TIM WILBER		

Description of Change Order Request:

ADD COVE BASE IN CORRIDOR 16 ONLY--FLOORS 2-6

ADD COVE BASE IN CORRIDOR 16 ONLY--FLOORS 2-6

ADD

	MANUFACTURER:			*STYLE:*		
	COLOR NAME:	*COLOR NUMBER:*	*UOM:*	*QUANTITY:*	*UNIT PRICE:*	*TOTAL PRICE:*
1	**FURNISH MATERIAL ONLY—B-1 - INCLUDES 10% O&P**					
	ROPPE® CORPORATION			COVE BASE 6" X 1/8" X 120' COILS		
	TBD		LF	1,080.00	1.000	1,080.00
2	**LABOR ONLY - INCLUDES 10% O&P**					
	FLOORING ENVIRONMENT, INC.			N/A		
	N		EA	17.50	65.890	1,153.08

Total ADD **$2,233.08**

Tax Exempt Total This Option : $2,233.08

SALESMAN'S SIGNATURE

Approximate Installation Start Date:

CUSTOMER'S AUTHORIZATION

twilber flooringenv.com

From: Tony Zangrilli <tonyz@salesmaster.com>
Sent: Monday, December 03, 2018 1:53 PM
To: twilber flooringenv.com
Subject: Re: PRICING---IDA PHASE 2-- (AC-39) MR CORRIDOR

Hey Tim

6" vinyl
$.90 LF

Regards,

Tony Zangrilli
Territory Manager | Specifications | Salesmaster Flooring Solutions
p: 518-593-0770
a: 140 Padgette Road Chicopee, MA 01022
Mannington / Roppe / Woodstar / CMP / Cobalt Surfaces / Six Degrees Flooring

On Dec 3, 2018, at 1:46 PM, twilber flooringenv.com <twilber@flooringenv.com> wrote:

Tony
Please send pricing for
(1,800/LF) 6" VINYL COIL COVE BASE.

Thank you

Tim Wilber
Commercial Sales
Flooring Environment Inc
Woman Owned Business Enterprise
200 Fillpoint Drive
Mechanicville, NY 12118
P: (518)383-5510
F: (518)383-4740
<image001.png>

LABOR RATE BREAK OUT

The following are hourly wage rates for all tradesmen associated with this bid package for performing extra work on a time and material basis and also on lump sum change order proposals. These rates are fully loaded (including overhead and profit. Please refer to the summary of work section to review all additional items that are inclusive in the overhead and profit portion of this labor rate.) and are in accordance with the prevailing wages of the trade having jurisdiction in areas where the work is performed. The wage rates shall be valid for the life of the project. *NOTE: No markup shall be allowed on the premium time portion of the wage rate. This contractor is required to submit labor rate summary sheets, which will justify all of these labor rates. All rates are subject to thorough analysis and subject to reduction if deemed inaccurate by LeChase Construction Services, LLC and/or Promenade at University Place.*

TRADE: Carpenters Local 291 **EXPIRES:** 6/30/18

Cost Item			"A"	"B"	"C"
Base Rate			$ 30.93	$ 46.40	$
Taxes		Percentage	Straight Time	Over Time	Double Time
	FICA	7.65 %	$ 2.37	$ 3.55	$
	Federal Unemployment	.6 %	$ .19	$ .28	$
	State Unemployment	6.4 %	$ 1.98	$ 2.97	$
	Other	%	$	$	$
Insurance					
	General Liability	2.5	.77	1.16	
	Workmen's Compensation	6.65 %	$ 2.06	$ 3.09	$
	Disability Insurance	.5 %	$ .15	$ .23	$
Benefits					
	Health & Welfare		$ 8.00	$ 8.00	$
	Pension		$ 9.25	$ 9.25	$
	Annuity		$ 1.50	$ 1.50	$
	Other		$ 2.10	$ 2.10	$
Subtotal			$ 59.30	$ 78.53	$
Overhead & Profit		15 %	$ 8.90	$ 11.78	$
TOTAL			$ 68.20	$ 90.31	$

LeChase Initial_____
Date: _____

Subcontractor Initial TW
Date: 2/21/18

10% $6.59

$65.89

dave sadowsky, architect, p.c. leed a.p.

ARCHITECT'S CLARIFICATIONS

 # 039
8/22/2018

PROJECT: **Ida Yarbrough Homes Redevelopment Phase 2**
252 North Pearl Street, Albany, NY 12210

OWNER: **Ida Yarbrough Phase II LLC**
c/o Albany Housing Authority
200 South Pearl Street, Albany, NY 12202

CONTRACTOR: **A. O. W. Associates, Inc.**
30 Essex Street, Albany, NY 12206

CONTRACT DATE: 2/27/2018

The Contract work shall be performed in accordance with the following Architect Clarifications. Contractor shall submit a Change Order Proposal in accordance with contract documents, for any associated changes in contract Sum or Contract time.

DESCRIPTION: **Midrise Corridor Vinyl Base**

- **Change wood base in corridor x16 to vinyl base**

PROJECT ARCHITECT:
Dave Sadowsky

Attachments :
MR-A13.1

Dave Sadowsky, R.A.
Dave Sadowsky, Architect, P.C.

97Maxon Rd • Petersburgh, NY. 12138 • Phone (518) 658-2830 • Fax (518) 658-2863 • dave@sadowskyarchitect.com
SADOWSKYARCHITECT.COM

FINISH SCHEDULE:

NO	ROOM NAME	FLOOR	BASE	CEILING	WALL NORTH	WALL SOUTH	WALL EAST	WALL WEST	NOTES
APARTMENTS TYPICAL									
199	ENTRY	LVP	W	GB	GB	GW	GB	GB	
	LIVING ROOM	LVP	W	GB	GB	GB	GB	GB	
	KITCHEN	LVP	W	GB	GB	GB	GB	GB	
	BEDROOM(S)	LVP	W	GB	GB	GB	GB	GB	
	BATHROOM	PT-1	PT	GB	GBMR	GBMR	GBMR	GBMR	1,2
	CLOSET TOWELRAK STORAGE IN UNIT	LVP	W	GB	GB	GB	GB	GB	
PUBLIC SPACES GROUND FLOOR									
104	MAIN GREETING	VCT	VB	RU	FRP	FRP	FRP	FRP	
105	MAIL STORAGE	VCT	VB	GB	GB	GB	GB	GB	
106	STAIRWELL	VCT	W	AT	GB	GB	GB	GB	1
107	GENERAL STORAGE ROOM	VCT	VB	GB	GB	GB	GB	GB	
108	GENERAL MEETING	LVP/PT-2	PT	AT	CT	CT	GB	GB	
109	GENERAL FLOOR LOBBY	PT-2	PT	GB/AT	GB	GB	GB	GB	1,2
110	LAUNDRY ROOM	PT-2	PT	AT	GB	GB	GB	GB	
111	SUPERVISING SERVICES OFFICE	VCT	W	AT	GB	GB	GB	GB	
112	COMMUNITY ROOM	VCT	W	GB/AT	GB	GB	GB	GB	3
113	MC W/C	PT-3	PT	GB	GB	GB	GB	GB	4
114	MC W/C	PT-3	PT	GB	GB	GB	GB	GB	4
115	COMMUNITY KITCHEN	VCT	W	GB	GB	GB	GB	GB	
116	COMMUNITY ROOM STORAGE	LVP/PT-1	PT	GB	GB	GB	GB	GB	
117	MECHANICAL ROOM	CP	VB	EXPOSED	CP	CP	CP	CP	
118	ELECTRIC ROOM	CP	VB	EXPOSED	CP	-	PLY	CP	
PUBLIC SPACE 1ST FLOOR									
111	MAIL STORAGE	VCT	W	GB	GB	GB	GB	GB	
112	MAIL STORAGE	VCT	VB	GB	GB	GB	GB	GB	
113	VESTI	VCT	VB	GB	GB	GB	GB	GB	
114	MAIL STORAGE	VCT	VB	GB	GB	GB	GB	GB	
115	STAIRWELL	VCT	W	AT	GB	GB	GB	GB	1
116	JANITORS CLOSET	PT-2	PT	GB	FRP	FRP	FRP	FRP	
117	ELECTRIC	VCT	VB	GB	GB	GB	GB	GB	
118	FIRST FLOOR LOBBY	PT-2	PT	GB/AT	GB	GB	GB	GB	1,2
119	STAIRWELL	VCT	W	AT	GB	GB	GB	GB	1
120	FIRST FLOOR VESTIBULE	LVP/PT-1	PT	GB	GB	GB	GB	GB	
121	STAIRWELL	VCT	W	AT	GB	GB	GB	GB	1
122	MAIN COLLECTION ROOM	VCT	VB	GB	FRP	FRP	FRP	FRP	
123	MAIN CONVERSATION ROOM	CP	VB	GB	CP	CP/FRP	FRP	CP	2,3
PUBLIC SPACES TYPICAL FLOORS 2-6 (ROOM NUMBERS VARY ON FLOORS 2,3)									
212	MAIL STORAGE	VCT	VB	GB	GB	GB	GB	GB	
213	STAIRWELL	VCT	W	GB	GB	GB	GB	GB	
214	MECHANICAL	VCT	VB	GB	GB	GB	GB	GB	
215	MAIL STORAGE	VCT	VB	GB	GB	GB	GB	GB	
216	CORRIDOR	VCT	VB/W	AT	GB	GB	GB	GB	1
217	JANITORS CLOSET	VCT	VB	GB	FRP	FRP	FRP	FRP	
218	ELECTRICAL	VCT	VB	GB	GB	GB	GB	GB	
219	CORRIDOR FLOOR	PT-2	PT	GB/AT	GB	GB	GB	GB	1
220	MAIL STORAGE	VCT	VB	GB	GB	GB	GB	GB	
221	MAIN COLLECTION ROOM	VCT	VB	GB	FRP	FRP	FRP	FRP	
222	MAIL STORAGE	VCT	VB	GB	GB	GB	GB	GB	
223	STAIRWELL	VCT	VB	AT	GB	GB	GB	GB	1
SUPPLIMENTAL PUBLIC SPACE 6TH FLOOR									
612	FITNESS ROOM	RT	W	GB	GB	GB	GB	GB	1
613	MC W/C	PT-3	PT	GB	GB	GB	GB	GB	4
STAIR+ELEVATOR - TYPICAL FLOORS 1-6									
01	STAIR	CP	VB	P	CP/GB	CP/GB	CP	CP	
02	STAIR	CP	VB	P	CP/GB	CP/GB	CP	CP	2
1	ELEVATOR	PT-2	-	P	-	-	-	-	
2	ELEVATOR	PT-2	-	P	-	-	-	-	

FINISH SCHEDULE KEYED NOTES:

FLOORS

CW - CHERRY MAT (09 68 00) (CORK LAY INSTALLED OVER PT-2) 2

RT - RUBBER TILE (09 65 19)

LVP - LUXURY VINYL PLANK SEE UNDERLAY LOCATIONS (09 65 19)
FLOORS 0,1,2,3 INSTALL/ADHERE LVP ON CEMENTIOUS SUBSTRATE
FLOORS 4,5,6 INSTALL GYPCRETE (03 54 13) UNDERLAY OVER WOOD SUBSTRATE (06 13 00)

VCT - VINYL COMPOSITION TILE (09 65 19)
SEE FINISH PLANS FOR PATTERNS/MULTI FINISH LOCATIONS

PT-1 - PORCELAIN TILE / PECSDORAL BITHIU (09 30 00)
PT-2 - PORCELAIN TILE / COMMON AREAS (09 30 00)
PT-3 - PORCELAIN TILE / COMMON BATHRMS (09 30 00)

CG - CONCRETE / CLEAN & SEAL (03 01 00)
CB - BLOCK OR CONCRETE / PAINT (09 03 00) (BRIDGECAST SAND INTO PAINT 4" STRIPS)

BASE

#1 - TILE BASE TO MATCH FLOOR TILE
- WOOD BASE PER A/A-4
VB - VINYL BASE / 6" CONTINUOUS ROLL (09 65 13)

WALLS

GB - GYPSUM WALLBOARD / PREP & PAINT (09 29 00)
ALL ACCENT WALL LOCATIONS THIS SHEET

GBMR - GYP MOISTURE RESISTANT / PAINT w/ MILDEW RES PAINT (09 29 00)

FRP - FIBERGLASS REINFORCED PANEL OVER GBMR (09 72 00)

SP - STAINLESS STEEL PANEL CLADDING SYSTEM (09 41 13)

CP - CONCRETE/PAINT (09 01 00)

PLY - FRAME WALL WITH PAINTED 3/4" PLYWOOD BOTH SIDES

CEILINGS

GB - GYPSUM BOARD / PREP & PAINT (09 29 00)
GBMR - GYP MOISTURE RESISTANT / PREP & PAINT w/ MILDEW RESISTANT PAINT (09 29 00)
AT - ACOUSTIC TILE , SEE REFLECTED CEILING PLANS (09 51 23)
P - PAINT STEEL/CONCRETE CEILING CONSTRUCTION (09 91 00)

KEYED NOTES:

1. SEE SPECIFICATIONS FOR DETAILED MATERIAL DESCRIPTIONS.
2. SEE REFLECTED CEILING PLANS FOR CEILING CONDITIONS.
3. SEE WALL TYPES FOR WALL CONSTRUCTION.
4. ALL FINISHES ARE NEW.
5. SEE SPECIFICATIONS FOR THRESHOLDS AND TRANSITIONS CONDITIONS.
6. [illegible]
7. SEE G-1.3 FOR CLOSET SHELF DETAILS.
8. [illegible]
9. NOTE FLOOR PATTERN FOR VISUALS 1,2
10. FRP LOCATED AT ACCENT WALL LOCATIONS THIS ROOM
11. INSTALL SIGNAGE PER SCHEDULE / PLANS THIS SHEET (10 14 00)
12. PROVIDE VINYL WAINSCOT / CHAIR RAIL ALL WALLS. PER DETAIL [illegible]

ADDENDUM 2 12/29/17

*dimensions take precedence over scale
*contractor to field verify all conditions and dimensions and is responsible for same

dave sadowsky, architect, p.c.
97 maxon road, petersburgh new york 12138
"socially conscious design" (518)658-2830
dave@sadowskyarchitect.com

IDA YARBROUGH HOMES REDEVELOPMENT- Phase2
P.O.C. - 252 North Pearl St, Albany, NY 12210

FINISH SCHEDULE
Construction Documents

DATE: 10/31/2017
DRAWN BY: T.A
JOB #: 17-03
SCALE: AS NOTED
DRAWING #:
MR-A13.1

A·O·W ASSOCIATES INC.

30 Essex Street
Albany, NY 12206
Ph : (518)482-3400

Change Request

To: Ted Koch
Albany Housing Authority
200 SOUTH PEARL STREET
ALBANY, NY 12202
Ph: 518-641-7531 Fax: 518-641-7545
Source: Other # AC-33

Number: COR 050
Date: 1/22/19
Job: 15-00136 Ida Yarbrough Phase II

We are pleased to offer the following specifications and pricing to make the following changes:

Detailed Description

Per AC-33 R2, position and locate duct and bar joists per sketches.

Pricing Summary

AOW Labor		$	592.00
JBS		$	826.00
Subtotal:		$	1,418.00
General Conditions	6.00%	$	85.00
Insurance	1.40%	$	20.00
Bond	0.60%	$	9.00
Fee	6.00%	$	85.00
Total:		$	1,617.00

If you have any questions, please contact me at 518-482-3400.

Submitted by: Peter Oliver
AOW Associates, Inc

Approved by AOW ASSOCIATES, INC.:
Approved: _____
Date: 1.23.19

Approved by ARCHITECT:
Approved: _____
Date: _____

Approved by OWNER:
Approved: _____
Date: _____

A·O·W ASSOCIATES INC.

30 Essex Street
Albany, NY 12206
T 518-482-3400
F 518-482-3444

AOW Labor	Regular Hours	OT Hours	Regular Rate	OT Rate	Total
AOW Labor (Superintendent)			$ 77.50	$ 116.00	$ -
AOW Labor (Project Manager)			$ 78.00	$ 90.00	$ -
AOW Labor (Carpenter Foreman)			$ 75.75	$ 113.00	$ -
AOW Labor (Carpenter)	8		$ 74.00	$ 110.50	$ 592.00
AOW Labor (Laborer Foreman)			$ 73.40	$ 110.00	$ -
AOW Labor (Laborer)			$ 70.75	$ 106.00	$ -
			AOW Labor Total:		$ 592.00

AOW Material	Quantity	Units	$/Unit	Cost/Item	
				$ -	$ -
				$ -	$ -
				$ -	$ -
				$ -	$ -
			AOW Material Total:		$ -

AOW Tool Rentals	Quantity	Units	$/Unit	Cost/Item	
				$ -	$ -
				$ -	$ -
				$ -	$ -
				$ -	$ -
			Subtotal:		$ -
			30% Discount:		$ -
			AOW Tool Rental Total:		$ -
			AOW Subtotal:		$ 592.00

AOW Subcontractors					
JBS	1		$ 826.00	$ 826.00	$ 826.00
	1			$ -	$ -
	1			$ -	$ -
	1			$ -	$ -
			Subcontractor Subtotal:		$ 826.00
			Subtotal All Categories:		$ 1,418.00
		6.0%	General Conditions		$ 85.08
				Subtotal:	$ 1,503.08
		1.4%	Insurance		$ 19.85
				Subtotal:	$ 1,522.93
		0.60%	Bond		$ 8.51
				Subtotal:	$ 1,531.44
		6.0%	Fee		$ 85.08
			Grand Total:		$ 1,616.52

JBS, LLC
6 Maple Avenue
Scotia, NY 12302
Phone: (518) 346-0001
Fax: (518) 346-2572

CO #: 3

Job #: 1812
Ida Yarbrough Homes
Customer PO #: Contract

Change Order Request

To: Bill Keefer
AOW Associates INC
30 Essex Street
Albany, NY 12206
Phone: 5184823400

Subject: Installation of 2 Additional Floor Openings

Change Requested By: HVAC Coordination after Structure Install

Sent Via: E-mail

Description of Change:

We propose to furnish and install 2 floor openings at the first floor for the lump sum of $826.00 broken down as follows:

Field Labor:	751.00
Subtotal:	751.00
OH/P (10%)	75.00
Total:	$ 826.00

The change has added 1 calendar day to the project schedule and will cause an increase of $826.00 to the contract amount.

A signature below indicates acceptance of all changes shown herein. Any work associated with this change will begin upon receipt of a signed copy of this C.O. in our office. Please respond by 1/11/2019. If the requested response time is not met, the project may be delayed.

Accepted By

JBS, LLC

dave sadowsky, architect, p.c. leed a.p.

ARCHITECT'S CLARIFICATIONS

 # 033

~~7/19/2018~~
Rev 2 11-20-18

note revised MR -M1.2 (sheet 3)

PROJECT: **Ida Yarbrough Homes Redevelopment Phase 2**
252 North Pearl Street, Albany, NY 12210

OWNER: **Ida Yarbrough Phase II LLC**
c/o Albany Housing Authority
200 South Pearl Street, Albany, NY 12202

CONTRACTOR: **A. O. W. Associates, Inc.**
30 Essex Street, Albany, NY 12206

CONTRACT DATE: 2/27/2018

The Contract work shall be performed in accordance with the following Architect Clarifications. Contractor shall submit a Change Order Proposal in accordance with contract documents, for any associated changes in contract Sum or Contract time.

DESCRIPTION: **Midrise Rm 123 Bar Joist / Duct Coordination**

- **Position / locate duct & bar joists per attached sketch.**
- **Coordinate w. submittal 051200-6 Rev 1 & 051200-1**

PROJECT ARCHITECT:
Dave Sadowsky

Attachments :

SK-7-19-18-SLD
Rev 2 11-20-18

Dave Sadowsky, R.A.
Dave Sadowsky, Architect, P.C.

97Maxon Rd • Petersburgh, NY. 12138 • Phone (518) 658-2830 • Fax (518) 658-2863 • dave@sadowskyarchitect.com
SADOWSKYARCHITECT.COM

SK-7-19-18-SLD

Rev 2 11-20-18

GENERAL NOTES

- ========== =SOFFIT ABOVE
- ========== =HOUR FIRE RATED CONSTRUCTION
- ========== =2HR FIRE RATED CONSTRUCTION

◇ =WALL TYPES, SEE SHEET PR-C0

FEC =RECESSED FIRE EXTINGUISHER CABINET MOUNTED 3" ABOVE WALL BASE

CU =FAN COIL UNITS PER 'M' DRAWINGS, ENCLOSURE TO BE BUILT PER MANUFACTURER'S SPECIFICATIONS. COORDINATE WITH PROJ. CONTRACTOR TO ROUGH OUT LOCATION FOR CONDENSATE DRAIN TO PRAIRIE OUT BALANCE TO CONNECT BOND.

DW = DISHWASHER
CL = CLOSET
LIN = LINEN CLOSET

FULLY ACCESSIBLE = TURN-KEY LEVEL OF ACCESSIBILITY, AS DEFINED IN AND FIL

TYPE A = VISITABLE AND ADAPTABLE FOR FUTURE INCREASE IN ACCESSIBILITY, AS DEFINED IN AND FIL CH ID.

TYPE B = VISITABLE AND ADAPTABLE FOR FUTURE INCREASE IN ACCESSIBILITY TO A LESSER EXTENT THAN TYPE A, AS DEFINED IN AND FIL CH ID.

2SB	1/2" OSB STRUCTURAL SHEATHING ON EXTERIOR SIDE OF WALLS (SEE THRU SEN PLI)

1. ALL DOORS AND WINDOWS TO BE ENERGY STAR RATED.
2. ALL WALKING PATHS ARE TO BE CONSIDERED PART OF THE PATH OF EGRESS.
3. FINAL GRADES AT ALL BUILDING LOCATIONS TO BE DETERMINED BY SITE CONTOUR DRAWINGS.
4. ALL ELEVATORS SHALL BE WALL HUNG WITH REMOVABLE ACCESSIBLE KEY STAPP IN CABIN CAB. A STANDARD VANITY SHALL BE USED.
5. ALL BATHROOMS SHALL HAVE WALL REINFORCEMENT BLOCKING FOR MOUNTING FUTURE GRAB BARS UNLESS ONLY ACCESSIBLE KIT STAPP.
6. ALL COUNTERTOPS IN HANDICAPPED ACCESSIBLE AND ADAPTABLE UNITS TO BE BUILT AT 34" A.F.F.
7. PITCH FLOOR TOWARDS FLOOR DRAIN WHEN PRESENT IN ROOM.
8. SEE SHEET A0.0 FOR ENLARGED TYPICAL UNIT PLANS.
9. SEE SHEET PR-A0.3 AND PR-A0.5 FOR KITCHEN PLANS AND ELEVATIONS.
10. SEE SHEET PR-A0.3 AND PR-A0.5 FOR BATHROOM PLANS AND ELEVATIONS.
11. SEE SHEET PR-A0.3 AND PR-A0.5 FOR STAIR AND ELEVATOR DETAILS.
12. SEE SHEET PR-G0 FOR LINEN AND CLOSET DETAILS.
13. INSTALL TIMBER FLOORING UNDERNEATH ALL STOVES, REFRIGERATORS AND WALL HUNG BATHROOM VANITIES.
14. CONTRACTOR TO COORDINATE GYPSUM CEILING INSTALLATION BEFORE TIMBER FRAMES REQUIRED.
15. LAYOUT ENTIRE FLOOR WITH TRACE OF LINES PRIOR TO WALL CONSTRUCTION. VERIFY ALL DISCREPANCIES AND REVIEW WITH ARCHITECT.
16. INSTALL CAN OR PLAN AROUND COLUMN ENCLOSURE BEFORE INSTALLATION OF STOREFRONT.

BUILDING CODE ANALYSIS

GENERAL		
BUILDING CONSTRUCTION CLASSIFICATION		PREFABRICATED
OCCUPANCY CLASSIFICATION		R-2
# OF DWELLING UNITS IN BLDG		23
SPRINKLERS, NFPA 13	REQUIRED	FULLY SPRINKLED
SCREED WINDOWS	NOT REQ'D	PROVIDED
# OF EXITS	2	2
HEIGHT AND AREAS		
HEIGHT/STORIES-PER STORY	UNLIMITED	10,854 GSF
FIRE RATINGS		
STRUCTURAL FRAME	2hr and 1hr	2hr and 1hr
BEARING WALLS - EXTERIOR	N/A	N/A
NON-BEARING WALLS - INT	N/A	N/A
NON-BEARING WALLS - EXT	0hr	0hr
FLOOR CONSTRUCTION	2hr and 1hr	2hr and 1hr
ROOF CONSTRUCTION	1hr and 1hr	1hr and 1hr
BETWEEN UNIT WALLS	1hr	1hr
ENERGY (SEE WALL SECTION FOR + INFO)		
CONSTRUCTION TYPE	OHC	5B
ROOF R-VALUE	30(CI)	38(CI)
WALL R-VALUE	13 + 10(CI)	13 + 5.4(CI)
WALLS BELOW GRADE	13(CI)	5(CI)

SITE KEY PLAN- PHASE 2

Markups NOT TO SCALE

BLUE REPRESENTS OPEN WEB STEEL BAR JOIST

GREEN REPRESENTS WIDE FLANGE STEEL BEAM

40x14 duct penetration (round) and locate as close to exterior wall near BG line as possible

24x12 duct penetration locate as close to wall near EE line as possible

ADJUST SPACING OF SMALL PIPE PENETRATIONS TO MISS BAR JOISTS OR ROTATE SO LINE IS PARALLEL WITH BAR JOISTS

12"x 8" CA opening, locate as close to wall near EE line as possible

Provide deck edge support angles per AISI-SS.4

Joists CA / drop vent framing locate as close to wall near BG line as possible

Adjust bar joist spacing (22-0" max.) to accommodate duct location

Place Joist (JB.3) for Fire Protection Requirements. (JB.3)

See A2.0-B Floor Framing Details

1/A0 FIRST FLOOR
SCALE 1/8" = 1'-0"

◇ UNTAGGED WALLS ON FLOORS 0-2 ARE STANDARD UNRATED PARTITIONS WITH 3-TOOL STUCK, SEE WALL TYPES FOR MORE INFORMATION.

△4 2/23/18 ADDENDUM -4
△3 12/29/17 ADDENDUM -3
△1 11/21/17 ADDENDUM -1

CONSTANT AIRFLOW REGULATOR

TAG	CFM	MODEL	REMARKS
CAR-1	30	CAR-11-LP	BY ALDES OR EQUAL
CAR-2	75	CAR-11-LP	BY ALDES OR EQUAL
CAR-3	100	CAR-11-LP	BY ALDES OR EQUAL
CAR-4	500	CAR-11-LP	BY ALDES OR EQUAL

KEYED NOTES:

THIS SHEET

A. ~~CLOTHES DRYER EXHAUST VENT~~
~~DUCT SHALL BE CONSTRUCTED OF UNI-B-VENT 26 GAGE RIGID METAL HAVING SMOOTH INTERIOR SURFACES WITH JOINTS RUNNING IN THE DIRECTION OF AIRFLOW. SHALL NOT BE CONNECTED WITH SHEET METAL SCREWS OR FASTENERS HEAVIER THAN 10 EXTEND INTO THE DUCT.~~
~~TERMINATE THRU WALL W/ 4-1/2" INSTALL FIELD VERIFY WITH DAMPER PER MANUF. EQUIPMENT AROUND THE PENETRATION.~~

OMITTED

~~CLOTHES DRYER EXHAUST VENT~~
~~DUCT SHALL BE CONSTRUCTED OF UNI-B-VENT 26 GAGE RIGID METAL HAVING SMOOTH INTERIOR SURFACES WITH JOINTS RUNNING IN THE DIRECTION OF AIRFLOW. SHALL NOT BE CONNECTED WITH SHEET METAL SCREWS OR FASTENERS HEAVIER THAN 10 EXTEND INTO THE DUCT.~~
~~TERMINATE WITH DRAWN WALL CAP WOOD WEDGE WITH HARDWARE DOG AND COLLAR CAPABLE OF BEING PAINTED AND PAINTED ARCHITECT SHALL SELECT COLOR.~~
~~TERMINATION SHALL BE AT LEAST 3 FT AWAY FROM ANY ENTRANCE AND/OR~~

OMITTED

KEYED NOTES:

THIS SHEET

D. AIR TRANSFER GRILLE:
- 4SCIALL TRANSFER GRILLE (SIZE: 10x4, MODEL: 8145, BY MAILOR) ON CORRIDOR WALL AND TRASH ROOM WALL/JAM. CLOSET WALL.
CONNECT GRILLES WITH 10x4 DUCT, WITH FIRE DAMPER.

GENERAL NOTES:

1. DUCT SEALING:
   A. ALL DUCT SYSTEMS SHALL BE THOROUGHLY SEALED.
   B. MASTIC OR OTHER UL-181 COMPLIANT MATERIAL SHALL BE APPLIED WITHIN TEMPERATURE RANGE AND ACCORDING TO ALL OTHER MANUFACTURER REQUIREMENTS AT ALL TRANSVERSE JOINTS AND TAKE OFFS.
   C. ALL DUCT TRANSITIONAL JUNCTIONS SHALL BE SEALED WITH MASTIC OR OTHER UL-181 COMPLIANT MATERIAL.
   D. GAPS BETWEEN TAKE-OFF ROOTS AND GYPSUM BOARDS SHALL BE EFFECTIVELY SEALED.
   E. SEE SECTION 23 31 13 AND 23 33 00 FOR ADDITIONAL INFORMATION.
2. CORE-DRILL ALL ROUND PENETRATIONS THROUGH FLOORS AND WALLS.

REVISIONS:

- 02-23-18 ADDENDUM 4 NEW DRAWING ISSUED
- 06-15-18 COLUMN LINES ADDED NEW DRAWING ISSUED
- 07-31-18 BOILER CA/VENT RE-ROUTING
- 11-16-18 - AC-36, - AC-44, - AC-48.

HESNOR

dave sadowsky, architect, p.c.
socially conscious sustainable design / sadowskyarchitect.com

IDA YARBROUGH HOMES REDEVELOPMENT– Phase2
P.O.C. – 252 North Pearl St, Albany, NY 12210

HVAC PLAN – COMMON AREAS
SECOND FLOOR AND THIRD FLOOR
Construction Documents
MIDRISE

DATE: 09/28/2017
DRAWN BY: LF
JOB #: 17-03
SCALE: 1/8"=1'-0"
DRAWING #:
MR-M1.2

A·O·W ASSOCIATES INC.

30 Essex Street
Albany, NY 12206
Ph : (518)482-3400

Change Request

To: Ted Koch
Albany Housing Authority
200 SOUTH PEARL STREET
ALBANY, NY 12202
Ph: 518-641-7531 Fax: 518-641-7545
Source: Other # AC-64

Number: COR 051
Date: 1/22/19
Job: 15-00136 Ida Yarbrough Phase II

We are pleased to offer the following specifications and pricing to make the following changes:

Detailed Description

Per AC-64, furnish and install a duct static pressure sensor where determined by controls contractor.

Pricing Summary

Family Danz		$	721.00
Subtotal:		$	721.00
General Conditions	6.00%	$	43.00
Insurance	1.40%	$	10.00
Bond	0.60%	$	4.00
Fee	6.00%	$	43.00
Total:		$	822.00

If you have any questions, please contact me at 518-482-3400.

Submitted by: Peter Oliver
AOW Associates, Inc

Approved by AOW ASSOCIATES, INC.:
Approved: _____
Date: 1.23.19

Approved by ARCHITECT:
Approved: _____
Date: _____

Approved by OWNER:
Approved: _____
Date: _____

A·O·W ASSOCIATES INC.

30 Essex Street
Albany, NY 12206
T 518-482-3400
F 518-482-3444

AOW Labor	Regular Hours	OT Hours	Regular Rate	OT Rate	Total
AOW Labor (Superintendent)			$ 77.50	$ 116.00	$ -
AOW Labor (Project Manager)			$ 78.00	$ 90.00	$ -
AOW Labor (Carpenter Foreman)			$ 75.75	$ 113.00	$ -
AOW Labor (Carpenter)			$ 74.00	$ 110.50	$ -
AOW Labor (Laborer Foreman)			$ 73.40	$ 110.00	$ -
AOW Labor (Laborer)			$ 70.75	$ 106.00	$ -
			AOW Labor Total:		**$ -**

AOW Material	Quantity	Units	$/Unit	Cost/Item	
				$ -	$ -
				$ -	$ -
				$ -	$ -
				$ -	$ -
			AOW Material Total:		**$ -**

AOW Tool Rentals	Quantity	Units	$/Unit	Cost/Item	
				$ -	$ -
				$ -	$ -
				$ -	$ -
				$ -	$ -
			Subtotal:		$ -
			30% Discount:		$ -
			AOW Tool Rental Total:		**$ -**
			AOW Subtotal:		**$ -**

AOW Subcontractors					
Family Danz	1		$ 720.50	$ 720.50	$ 720.50
	1			$ -	$ -
	1			$ -	$ -
	1			$ -	$ -
			Subcontractor Subtotal:		**$ 720.50**
			Subtotal All Categories:		**$ 720.50**
		6.0%	General Conditions		$ 43.23
				Subtotal:	**$ 763.73**
		1.4%	Insurance		$ 10.09
				Subtotal:	**$ 773.82**
		0.60%	Bond		$ 4.32
				Subtotal:	**$ 778.14**
		6.0%	Fee		$ 43.23
			Grand Total:		**$ 821.37**

AC 64

FAMILY DANZ MECHANICAL

Request for Change

Family Danz Mechanical LLC
40 Pleasant St
Albany, NY 12207

RFC Number: 11
Date: 01/18/2019

To:
AOW Associates
30 Essex St
Albany, NY 12206
ATTN:Bill Keefer

Job Site:
IDA Yarbrough Phase 2
254 North Pearl Street
Albany, NY 12210

Regarding:
Per AC 64

Requested Change:	Change to Contract
Subcontractor Cost	$ 655.00
10% OHP	$ 65.50

RFC Total	$ 720.50

Please respond by:

Jon Herrgesell
Family Danz Mechanical LLC

Bill Keefer
AOW Associates

Proposal # 19JAO010

Custom Proposal
Technical Building Services, Inc.

12E Commerce Drive
Ballston Spa, N.Y. 12020-3631
Tel. (518) 885-4444 Fax (518) 885-4680
www.tbscontrols.com

Submitted To:	Family Danz Heating and Cooling	Date:	1/15/2019
Address	404 N. Pearl St.	Building Owner	Ida Yarbrough
City, State, Zip:	Albany, NY 12207	Work Site	Ida Yarbrough Redevelopment Phase 2
Attention:	Jon Herrgesell	Project	AC #064

Type of Quote:

___ BAS- DDC Controls	___ HVAC Retrofit Installation	___ Part Sales
___ Lighting Control	___ NYS State Contract - Pricing	___ ACS - Equipment Sale
___ Camera / Security/ Card Access	___ Dashboard / Kiosk	___ Service - Hours Maintenance
___ Integration Services	___ Consulting Services	___ Mechanical Maintenance
___ Power Monitoring	___ Backflow Preventor Maintenance	___ Retro-Commissioning

TBS Proposes To:

Provide, install and wire one (1) duct static pressure sensor for EF-AHU-1
Reprogram controller to include duct static pressure
Update sequence of operation for EF-AHU-1
Update graphics

This proposal does not include sales or use tax.

TBS Proposes hereby to furnish complete in accordance with the above description, all for the sum of: Six hundred and fifty-five dollars Dollars $655

Payment to be made as follows: **Net 30 Days**

All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tornado, and other necessary insurance. TBS's employees are fully covered by Workers Compensation Insurance.

Authorized Signature: Jessica O'Brien
Technical Building Services Inc.

Note: This proposal may be withdrawn by TBS if not accepted within 30 Days.

Acceptance of Proposal:

The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment is due upon receipt of invoice or the above agreed payment terms.

Authorized Signature _____

Date of Acceptance _____

A·O·W ASSOCIATES INC.

30 Essex Street
Albany, NY 12206
Ph : (518)482-3400

Change Request

To: Ted Koch
Albany Housing Authority
200 SOUTH PEARL STREET
ALBANY, NY 12202
Ph: 518-641-7531 Fax: 518-641-7545

Source: RFI # 80

Number: COR 052
Date: 1/29/19
Job: 15-00136 Ida Yarbrough Phase II

We are pleased to offer the following specifications and pricing to make the following changes:

Detailed Description

Per RFI 80, provide an extra fireman's connection.

Pricing Summary

SRI Fire Sprinkler		$	2,000.00
Subtotal:		$	2,000.00
General Conditions	6.00%	$	120.00
Insurance	1.40%	$	28.00
Bond	0.60%	$	12.00
Fee	6.00%	$	120.00
Total:		$	2,280.00

If you have any questions, please contact me at 518-482-3400.

Submitted by: Peter Oliver
AOW Associates, Inc

Approved by AOW ASSOCIATES , INC.:
Approved: _____
Date: 1.30.19

Approved by ARCHITECT:
Approved: _____
Date: _____

Approved by OWNER:
Approved: _____
Date: _____

A·O·W ASSOCIATES INC.

30 Essex Street
Albany, NY 12206
Ph : (518)482-3400

RFI

To: Dave Sadowsky
Dave Sadowsky, Architect P.C.
97 Maxon Road
Petersburgh, NY 12138
Ph: 518-658-2830

RFI #: 80
Date: 1/9/2019
Job: 15-00136 Ida Yarbrough Phase II
Phone:

CC:

Subject: Firemen's Connections Mid Rise

Drawing:
Spec Section:
Cost Impact: None
Schedule Impact: None

Request: **Date Required: 1/14/2019**

During a meeting this morning with Albany Fire Chief - Captain Christopher Evans, it was suggested to have (2) Firemen□s Connections prepared for the Mid - Rise as follows:

1 (1) to the left of ground floor entry off North Pearl Street - drop comes down in exterior wall of elevator machine room (this one is contractual and the most preferred due to specific Address of the Bldg.)
2 (1) to left of rear entry off Harriet Meyer Mews - predicted to be the most used entry due to all parking at rear (this would be an add)
3 FYI - we have Knox boxes being installed at both of these locations.

I have spoken to Mike Miller of SRI - he is estimating approx. $2,000.00 cost at most.

Please review and advise.

Requested by: Bill Keefer
AOW Associates, Inc

Response:

Please proceed with added FD connection as outlined above per meeting w. Captain Evans.

Kiel Sadowsky
Answered by

DSA
Company

1-9-19
Date

Corporate Offices
1060 Central Avenue
Albany, NY 12205

SRI FIRE SPRINKLER, LLC

Truck Deliveries Warehouse
1064 Central Avenue
Phone: (518)459-2776
Fax: (518)459-0068

Quote Overview

To: *AOW ASSOCIATES INC.*
30 ESSEX STREET
ALBANY NY 12206

Attention: *PETER OLIVER*

Job: *IDA YARBROUGH PHASE 2*
Job # *301119*
Our Change #: *301119-4*
Owner Id:
Date: *1/9/2019*

Description: RFI-#80 Has added a an additional Fire Department Connection to the left side of the rear entry off Harriet Meyer News.

TOTAL ADD: **$2,000.00**

Exclusions: ***SAME AS BASE CONTRACT & ANY OVERTIME HOURS.***

Quote is Valid for 15 Days

☐ Time extention required: _____ calendar days.
☑ We will await your change order before proceeding
☐ This change has been verbally approved by: _____ and we will proceed with the understanding that your change order is immediately forthcoming

FROM: ***Michael G. Miller***

Corporate Offices
1060 Central Avenue
PO Box 5429
Albany, NY 12205

SRI FIRE SPRINKLER, LLC

Truck Deliveries Warehouse
1064 Central Avenue
Phone: (518)459-2776
Fax: (518)459-0068

Quote Summary

JOB NAME: IDA YARBROUGH PHASE 2
JOB #: 301119
DATE: 1/9/19
OUOTE #: 301119-4

Material (see attached)					$	556.90
Sales Tax	0.00%				$	-
				MATERIAL TOTAL	$	556.90
Field Labor	Hours		Rate			
Superintendent Straight Time					$	-
Superintendent Time & Half					$	-
Superintendent Double Time					$	-
Foreman Straight Time	16 hours	$	78.83		$	1,261.28
Foreman Time & Half					$	-
Foreman Double Time					$	-
Journeyman Straight Time		$	-		$	-
Journeyman Time & Half					$	-
Journeyman Double Time					$	-
				LABOR TOTAL	$	1,261.28
Travel Expenses						
Zone #1		$	-		$	-
Zone #2		$	3.21		$	-
Zone #3		$	5.34		$	-
Zone #4		$	15.97		$	-
				TRAVEL TOTAL	$	-
Rentals				RENTAL TOTAL	$	-
Shop						
Shop Labor		$	-		$	-
Shop Driver		$	-		$	-
Layout Technician		$	78.83		$	-
				SHOP TOTAL	$	-
Equipment						
Job Truck		$	12.25		$	-
Job Van		$	24.50		$	-
Delivery Truck		$	49.50		$	-
Lifts And Tools		$	-		$	-
				EQUIPMENT TOTAL	$	-
Miscellaneous Cost						
Subcontractors		$	-		$	-
Computer Time		$	-		$	-
Clean Up		$	-		$	-
Safety		$	-		$	-
Other Costs		$	-		$	-
Enter your own item		$	-		$	-
Enter your own item		$	-		$	-
Enter your own item		$	-		$	-
				MISCELLANEOUS	$	-
				Subtotal	$	1,818.18
				Bond	$	-
				0% Overhead	$	-
				Subtotal	$	1,818.18
				10% OH & Profit	$	181.82
				Total	$	2,000.00
				ADD	$	2,000.00

SRI FIRE SPRINKLER CORP.
HOURLY RATE SCHEDULE

Trade: Sprinkler / 8 hour day
Local Union #669 / Upstate New York
Excludes the following counties:
Orange, Putnam, Westchester, Sullivan, Ulster, Dutchess, Rockland, *Albany, Rensselaer, Schenectady, Saratoga & Warren*

Period: 4/1/2018-12/31/2018
Travel Exp.: (By Union Agree-Below)

A. LABOR

Direct Labor Costs	S. T. (DLC)	PT (DLC)	UNION FRINGES	
Workers Compensation	9.85%	N/A	Welfare	$9.67
Liability Insurances	16.40%	N/A	Pension	$6.40
State Unemployment	8.30%	8.30%	Apprentice	$0.42
Federal Unemployment	0.60%	0.60%	ITF	$0.10
FICA	7.65%	7.65%	Supp. Pension	$6.55
State Disability	0.40%	0.40%	Ind. Fund	$0.25
Other _____	0.00%	N/A		
TOTAL	43.20% (*)	16.95%		$23.39 (***)

B. LABOR CLASSIFICATION

	JYM	FRM	GFRM		(**)	
1. ST Base Rate	$ 34.91	$ 37.66	$ 39.91		$	$
2. Insurance & Taxes (*) 43.05 % of B-1	$ 15.08	$ 16.27	$ 17.24		$	$
3. Union Fringes (***)	$23.39	$23.39	$23.39		$	$
4. Travel Expenses (if any)	$	$	$		$	$
5. Other _____	$	$	$		$	$
6. Small Tools Exp.(4% of Item #1)	$ 1.40	$ 1.51	$ 1.60		$	$
7. SubTotal (1-6)	$ 74.78	$ 78.83	$ 82.14		$	$
8. Overhead 10 % of 7	$ 7.48	$ 7.88	$ 8.21		$	$
9. Total Cost (1-8)	$ 82.26	$ 86.71	$ 90.35		$	$
10. Profit 10 % of 9	$ 8.23	$ 8.67	$ 9.04		$	$
11. Total S.T. Billing Rate	$ 90.48	$ 95.38	$ 99.39		$	$

C. PT (Time & one half) Defined as:

12. Total S.T. B-11	$ 90.48	$ 95.38	$ 99.39		$	$
13. One half Base Rate B-1	$ 17.46	$ 18.83	$ 19.96		$	$
14. 18.15% (**) PR Taxes of 13	$ 2.96	$ 3.19	$ 3.38		$	$
15. 21% CH of 13 + 14	$ 4.29	$ 4.62	$ 4.90		$	$
16. Total - Time & One Half Billing Rate 12-15	$ 115.18	$ 122.03	$ 127.62		$	$

D. P.T. (Double Time) Defined as:

17. Total S.T. B-11	$ 90.48	$ 95.38	$ 99.39	$ -	$	$
18. Base Rate B-1	$ 34.91	$ 37.66	$ 39.91	$ -	$	$
19. 18.15% (**) PR Taxes of 18	$ 5.92	$ 6.38	$ 6.76	$ -	$	$
20. 21% CH of 18 + 19	$ 8.57	$ 9.25	$ 9.80	$ -	$	$
21. Total - DBL time Billing Rate 17-20	$ 139.88	$ 148.67	$ 155.86	$ -	$	$

F.W. Webb Company
6792 Townline Road
Syracuse, NY 13211
TEL# (315-476-9322)
FAX# (315-472-4139)

Date	Quote Number
01/09/19	57823307

To:
SRI FIRE SPRINKLER ,LLC
1060 CENTRAL AVE

ALBANY NY 12205-2776

(518-459-2776)

SRI FIRE SPRINKLER ,LLC
1060 CENTRAL AVE

ALBANY NY 12205-2776

Cust #	Customer Po#	Rel#	Writer	Date Req
31017	MUST HAVE PO NUMBER ON		JDJ	01/09/19

Quoted By: JDJ

Quantity	Description	Net Price	Exten	Ln#
1	4" X (2) 2-1/2 SIAMESE FDC	96.00	96.00	(1)
8	4" VIC FRLK 009 EZ-VIC COUPLINGS	18.00	120.00	(2)
42	4" SCH 10 BLK STL PIPE	6.00	252.00	(3)
6	4" AS RING HANGERS	4.00	24.00	(4)
04	4" GROOVED VIC FRLK 90	16.00	64.00	(5)
1	1/2" BALL DRIP VLV ASSMBLY	11.90	11.90	(6

Sub Total: $ 556.90
Total: $ 556.90

*** NUMBER OF DAYS QUOTE VALID IS 15 ***
PLEASE REFERENCE QUOTE # 57823307 FOR INQUIRIES OR ORDER OF ABOVE MATERIAL

A·O·W ASSOCIATES INC.

30 Essex Street
Albany, NY 12206
Ph : (518)482-3400

Change Request

To: Dave Sadowsky
Dave Sadowsky, Architect P.C.
97 Maxon Road
Petersburgh, NY 12138
Ph: 518-658-2830
Source: Other # AC-65

Number: COR 056
Date: 2/6/19
Job: 15-00136 Ida Yarbrough Phase II

We are pleased to offer the following specifications and pricing to make the following changes:

Detailed Description

Per AC-65, delete door #123.3 insulated OHD, and add door #123.3 insulated rollup door and 120v power controls.

Pricing Summary

Carey Electric		$	1,812.00
Madsen Overhead Door		$	4,293.00
Madsen Overhead Door		$	-1,272.00
Subtotal:		$	4,833.00
General Conditions	6.00%	$	290.00
Insurance	1.40%	$	68.00
Bond	0.60%	$	29.00
Fee	6.00%	$	290.00
Total:		$	5,510.00

If you have any questions, please contact me at 518-482-3400.

Submitted by: Peter Oliver
AOW Associates, Inc

Approved by AOW ASSOCIATES, INC.:
Approved: _____
Date: 2-15-19

Approved by ARCHITECT:
Approved: _____
Date: _____

Approved by OWNER:
Approved: _____
Date: _____

dave sadowsky, architect, p.c. leed a.p.

ARCHITECT'S CLARIFICATIONS

#065
01/31/19

PROJECT: **Ida Yarbrough Homes Redevelopment Phase 2**
252 North Pearl Street, Albany , NY 12210

OWNER: **Ida Yarbrough Phase II LLC**
c/o Albany Housing Authority
200 South Pearl Street, Albany, NY 12202

CONTRACTOR: **A. O. W. Associates, Inc.**
30 Essex Street, Albany, NY 12206

CONTRACT DATE: 2/27/2018

The Contract work shall be performed in accordance with the following Architect Clarifications. Contractor shall submit a Change Order Proposal in accordance with contract documents, for any associated changes in contract Sum or Contract time.

DESCRIPTION: Midrise Garage Rollup Door

Delete Door # 123.2 Insulated OHD

Add Door # 123.2 Insulated Rollup Door – Cornell Thermiser ModelESD20 w. Manual Hoist

Add Option 1 (Price Separately) : Add 120v power controls

ATTACHMENTS:

PROJECT Architect:
Dave Sadowsky, R.A.
Dave Sadowsky, Architect, P.C.

97Maxon Rd • Petersburgh, NY. 12138 • Phone (518) 658-2830 • Fax (518) 658-2863 • dave@sadowskyarchitect.com
SADOWSKYARCHITECT.COM

Madsen Overhead Doors, Inc.

673 Route 203
Spencertown,NY 12165

Phone: 518.392.3883
Email: info@madsenoverheaddoors.com

Estimate

SALES REP
MM

Date	Estimate #
1/12/2019	10374

Name / Address	Ship To
AOW Associates, Inc 30 Essex Street Albany,NY 12206	Ida Yarbrough Mid Rise Albany,NY

PHONE #	FAX #	EMAIL

WE PROPOSE TO FURNISH AND INSTALL

1--6'0" x 7'0" 24 ga. Thermiser insulated rolling steel service door as mfg. by Cornell Iron Works, Inc

Face mounted to masonry
Helical torsion springs
24 / 24 ga. flat slats
24 ga. hood with lintel seal
Structural steel guides with weather seals
White or Brown Color
Gear reduced electric operator - 115v 1 phase with auxiliary chain hoist
(1) inteiror three button control station
(1) Exterior key switch with best cylinder core - Masterkeyed by others
Aluminum bottom bar with astragal
Motor drive cover
Reversing photo-eyes
Instaleld with one year guarantee

ALL ELECTRICAL INCLUDING LOW VOLTAGE IS BY OTHERS

Sales tax exempt (Albany Co.) - Prevailing wage rates

Total $4,293.00

Signature _____

This quotation will become part of any contract or purchase order. All line and low voltage wiring,conduit,disconnects,hook-up of operators,controls and accessories is by others

Change Order

Overhead Door Power

Carey Electric, Inc.
11 Cannon St
Green Island, NY 12183
Phone: 518-283-5431 ext. 2

AOW Assoc
30 Essex St
Albany, NY 12206

29 January 2019
Job ID: BN18-0030 MR
Albany NY

Attention: Peter Oliver

Re: Change Order Overhead Door Power/Controls for: Ida Yarbrough MR

We are pleased to quote on the above Change Order for Overhead Door power/controls as follows.
1. Based on 120V 20A power for 1 Overhead door located in 1st floor trash room
2. Installation of controls included. All equipment and control devices provided by others

We reserve the right to correct this quote for errors and or omissions. All wiring to meet the requirements of the 2017 National Electrical Code.

Bid Items	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6
DIRECT LABOR HRS	15.88					
DIRECT LABOR DOLLARS		1,305.66				
MATERIAL DOLLARS		341.21				
OVERHEAD TOTAL		164.69				

Change Order Amount: $1,811.55

Change Order

Overhead Door Power

Carey Electric, Inc.
11 Cannon St
Green Island, NY 12183
Phone: 518-283-5431 ext. 2

Pricing:

Qty	Description	Unit	Ext
6	OVERHEAD DOOR CONTROLS LABOR	90.4593	542.76
90	3/4 EMT	3.5779	322.01
2	3/4 EMT FIELD-BEND	9.0459	18.09
6	3/4 EMT STEEL-SS COUPLING	2.6408	15.84
4	3/4 EMT STEEL SS CONNECTOR	4.0089	16.04
4	3/4 PLASTIC BUSHING	3.8117	15.25
6	3/4 FLEXIBLE STEEL CONDUIT	3.8354	23.01
1	3/4 FLEX COND ANGLE CONN	16.2197	16.22
1	3/4 FLEX COND STRAIGHT CONN	10.0218	10.02
297	12 THHN/THWN CU (STR)	0.8863	263.24
100	#18 2/C FOIL SHEILD CABLE C	3.9799	397.99
6	#22 to 8 WIRE-NUT MED -TAN	3.9039	23.42
6	#18 to 8 WIRE-NUT MED -RED	3.8701	23.22
2	#12 SOL 8" PIGTAIL W/GRD SCR	4.8695	9.74
3	12 WIRE TERMINATION LBR	2.7138	8.14
2	2-1/8"D 4"SQ CMB-KO NO BRKT	12.4223	24.84
2	4"SQ BLANK COVER	3.1382	6.28
2	1/4" PLTD FLAT WASHER	0.1147	0.23
2	1/4-20 PLTD HEX NUTS	1.8353	3.67
1	SMALL EQUIPMENT CONNECTION	27.1378	27.14
10	3/4 COND HAMMER-ON HGR 1/4-FL	3.7840	37.84
2	1/4" FLANGE HAMMER-ON FLANGE	3.2836	6.57

For the Sum of $1,811.55

Breakout/Unit Pricing:

The Change Order expires on 2/14/19.

We request an additional 0 days be added to the completion date of the project.

Sincerely,

Daniel Terry
Carey Electric, Inc.