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 DDOT Review - Shaun Baskerville

DC ARCHITECT
 10530 WARWICK AVENUE, SUITE 100
 FAIRFAX, VA 22030
 Phone: 703.988.2550 • Email: info@dcarchitect.com
 Website: www.dcarchitect.com

1125 7th St NE - STONY CREEK HOMES
 GENERAL NOTES - PANEL SCHEDULE



04/16/2018
 DRAWN BY: MCR
 DATE: 03/10/17
 REV No. DATE
 004 04/16/18

01.01.17

SHEET No. E.00
 Board of Building Adjustment
 District of Columbia
 CASE NO. 19550
 EXHIBIT NO. 4282

PANELBOARD PB		MLO		X Equipment Ground Bus		Poles: 42		Min CB IC: 10k			
Voltage: 240/120V, 1Ø, 3W		X MCB 250 A		Isolated Ground Bus		Mtg: Flush		Comments:			
Main Bus: 250 A											
Ckt #	Serves	Load VA	Breaker P	Trip	Phase		Breaker Trip P	Load VA	Serves	Ckt #	
					A	B					
1	REC - BEDROOM	720	1	20*		1620	20*	1	900	REC - BEDROOM	2
3	REC - BATHROOM	900	1	20			20*	1	900	REC - BEDROOM	4
5	REC - LIVING ROOM	900	1	20*		1800	20*	1	900	REC - BEDROOM	6
7	REC - KITCHEN	1500	1	20			20	1	1260	REC - OUTDOOR	8
9	ELECTRIC HEATER	1000	2	20**		1980	20**	1	980	INDOOR MECH UNIT	10
11		1000					20*	1	1400	LIGHTS	12
13	REC - KITCHEN	1500	1	20		2700	20	1	1200	DISHWASHER	14
15	REC - REFRIGERATOR	960	1	20		1140	20	1	180	GAS RANGE	16
17	DISPOSAL	600	1	20		4400	40**	2	3800	REC - WASHER/DRYER	18
19	HOOD / MICROWAVE	1500	1	20		5300			3800		20
21	REC - KITCHEN	1500	1	20		2100	20*	1	600	SMOKE DETECTORS	22
23	REC - SUMP PUMP	750	1	20		750	20	1		SPARE	24
25	LIGHTS	1900	1	20*		2260	20	1	360	REC - KITCHENETTE	26
27	LIGHTS	1700	1	20*		2450	20**	1	750	GAS WATER HEATER	28
29	REC - LIVING ROOM	1080	1	20*		2280	20	1	1200	DISHWASHER	30
31	REC - DEN	720	1	20*		1440	20*	1	720	REC - BEDROOM	32
33	OUTDOOR COMPRESSOR	2016	2	35**		2016	20	1		SPARE	34
35		2016				2016	20	1		SPARE	36
37	MINI-SPLIT SYSTEM	2880	2	40**		2880				SPACE	38
39		2880				2880				SPACE	40
41	SPACE					1600	20*	1	1600	LIGHTS	42
Total Connected Load (VA)		48572				25636	22936	(VA/Phase)			
						106.8	95.6	(Amps/Phase)		202.4 Total Connected Load (Amps)	

A UNIT #1 PANEL SCHEDULE (PB)
 SCALE: 1/4" = 1'-0"

PANELBOARD P1		MLO		X Equipment Ground Bus		Poles: 42		Min CB IC: 10k			
Voltage: 240/120V, 1Ø, 3W		X MCB 250 A		Isolated Ground Bus		Mtg: Flush		Comments:			
Main Bus: 250 A											
Ckt #	Serves	Load VA	Breaker P	Trip	Phase		Breaker Trip P	Load VA	Serves	Ckt #	
					A	B					
1	REC - BEDROOM	720	1	20*		1620	20*	1	900	REC - BEDROOM	2
3	REC - BATHROOM	1260	1	20		2160	20*	1	900	REC - BEDROOM	4
5	REC - LIVING ROOM	1080	1	20*		1800	20*	1	720	REC - BEDROOM	6
7	REC - KITCHEN	1500	1	20		2760	20	1	1260	REC - OUTDOOR	8
9	SPARE		1	20		980	20**	1	980	INDOOR MECH UNIT	10
11	SPARE		1	20		1700	20*	1	1700	LIGHTS	12
13	REC - KITCHEN	1500	1	20		2700	20	1	1200	DISHWASHER	14
15	REC - REFRIGERATOR	960	1	20		1140	20	1	180	GAS RANGE	16
17	DISPOSAL	600	1	20		600	20	1		SPARE	18
19	HOOD / MICROWAVE	1500	1	20		5300	20*	1	600	SMOKE DETECTORS	20
21	REC - KITCHEN	1500	1	20		2100	40**	2	3800	REC - WASHER/DRYER	22
23	REC - SUMP PUMP	750	1	20		4550			3800		24
25	LIGHTS	1800	1	20*		2160	20	1	360	REC - KITCHENETTE	26
27	LIGHTS	1800	1	20*		2550	20**	1	750	GAS WATER HEATER	28
29	REC - LIVING ROOM	1080	1	20*		2280	20	1	1200	DISHWASHER	30
31	REC - DEN	900	1	20*		1620	20*	1	720	REC - BEDROOM	32
33	OUTDOOR COMPRESSOR	2016	2	35**		2016	20	1		SPARE	34
35		2016				2016	20	1		SPARE	36
37	SPACE					2880	40**	2	2880	MINI-SPLIT SYSTEM	38
39	SPACE					2880			2880		40
41	SPACE					1500	20*	1	1500	LIGHTS	42
Total Connected Load (VA)		47312				23836	23476	(VA/Phase)			
						99.3	97.8	(Amps/Phase)		197.1 Total Connected Load (Amps)	

B UNIT #2 PANEL SCHEDULE (P1)
 SCALE: 1/4" = 1'-0"

GENERAL NOTES

VERIFY MOUNTING HEIGHTS AND PLACEMENT OF ALL DEVICES BY REFERRING TO ARCHITECTURAL PLAN, ELEVATION AND DETAILS.

CONTRACTOR TO COORDINATE POWER OUTLET AND TELECOMMUNICATIONS EXACT LOCATIONS WITH THE FINAL FURNITURE LAYOUT.

CONTRACTOR TO INSURE CIRCUIT CONDUCTORS ARE INCREASED AS NECESSARY DUE TO VOLTAGE DROP.

ELECTRICAL CONTRACTOR TO COORDINATE WITH EQUIPMENT SUPPLIER FOR INSTALLATION PRIOR TO ROUGH-IN.

ALL ELECTRICAL MATERIALS AND EQUIPMENT INSTALLED IN LOCATION EXPOSED TO MOISTURE OR THE ELEMENT SHALL BE WEATHERPROOF.

PROVIDE ALL CONDUITS FOR COMMUNICATIONS WITH CAT 5 DATA/TELEPHONE CABLE COORDINATE WITH OWNER FOR FINAL CONNECTIONS.

PROVIDE ALL CONDUIT FOR TV WITH COAXIAL CABLE COORDINATE WITH LOCAL SUPPLIER FOR TYPE OF CABLE COORDINATE WITH OWNER FOR FINAL CONNECTIONS.

ALL DISCONNECT SWITCHES SHALL BE HEAVY DUTY 240V RATED NEMA 1 IN DRY LOCATION, NEMA 3R WHERE INSTALLED IN ANY LOCATION EXPOSED TO THE ELEMENTS. CONTRACTOR SHALL PROVIDE FUSED DISCONNECT WITH WITH FUSES AS RECOMMENDED BY EQUIPMENT SUPPLIER.

ALL LIGHTING FIXTURES TO BE APPROVED BY THE ARCHITECT/OWNER PRIOR TO ORDERING AND INSTALLING.

ARCHITECT TO SELECT COLOR OF LIGHTING FIXTURES AND COORDINATE WITH ARCHITECTURAL REFLECTED CEILING AND ELEVATION PLANS FOR LOCATION AND MOUNTING HEIGHTS.

ELECTRICAL CONTRACTOR TO COORDINATE ALL MECHANICAL EQUIPMENT POWER REQUIREMENT, EXACT LOCATION AND QUANTITY WITH MECHANICAL DRAWINGS PRIOR TO ROUGH-IN.

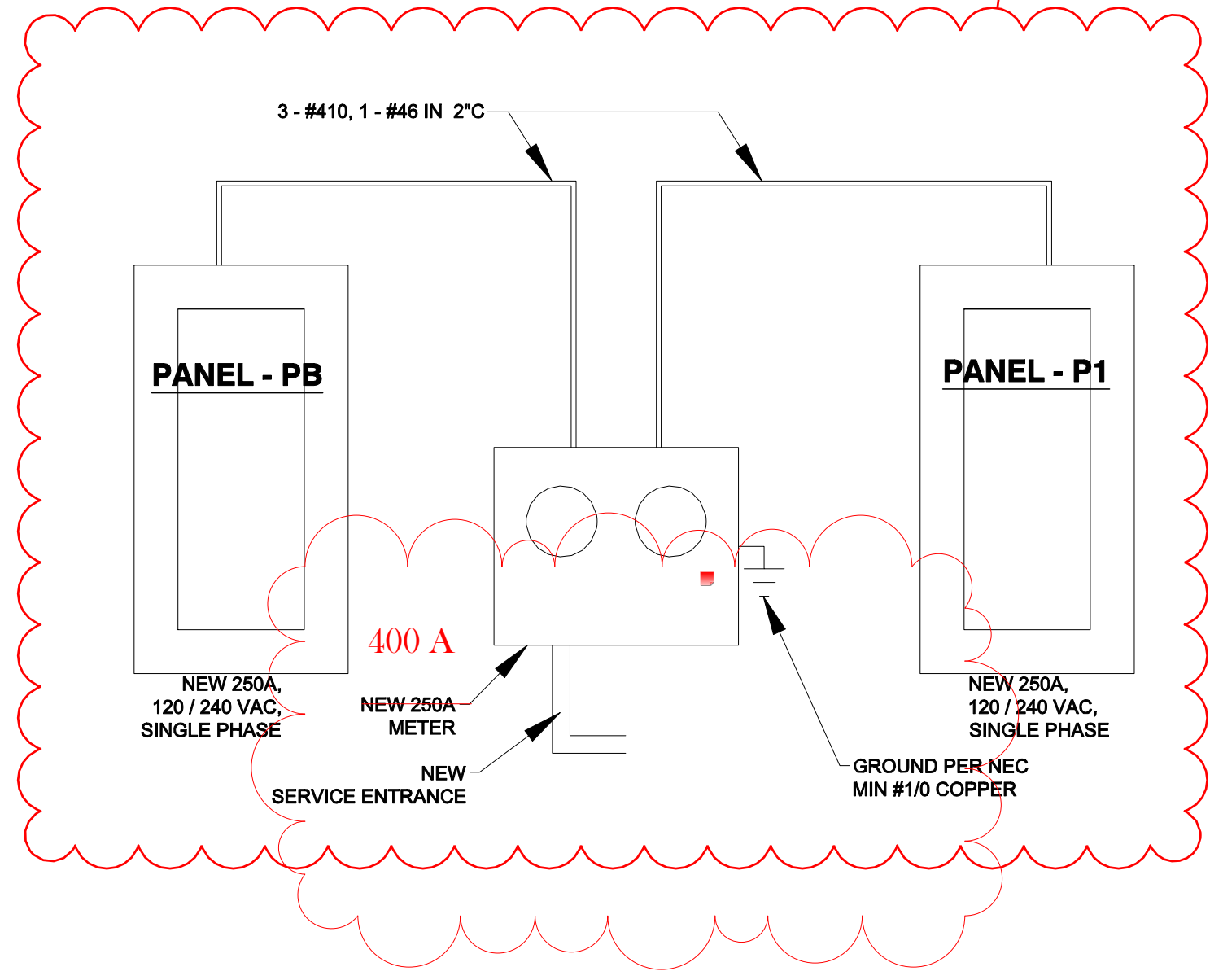
ELECTRICAL CONTRACTOR TO PROVIDE HACR TYPE CIRCUIT BREAKER MECHANICAL UNIT AND ARC-FAULT CIRCUIT INTERRUPTER FOR CIRCUIT BREAKER SERVING RECEPTACLES IN THE BEDROOM.

ELECTRICAL CONTRACTOR TO COORDINATE WITH UTILITY SERVICE FOR METERING UNIT REQUIREMENT.

ABBREVIATIONS

CONTR. COORDINATE	R. RISER
DWG. DRAWING	R.A. RETURN AIR
E.A. EACH	R.C.P. RECESSED CEILING PLAN
ELEV. ELEVATION	R.H. RIGHT HAND
ELECT. ELECTRICAL	R.O. ROOF OPENING
EQ. EQUAL	R.S. ROD AND SHELF
EQUIP. EQUIPMENT	R.S.D. RECESSED
EXST. EXISTING	REC. RECESSED
GEN. GENERAL	REF. REFRIGERATOR
GFI. GROUND FAULT INTERRUPTER	REQ. REQUIRED
HGT. HEIGHT	REV. REVISION
J.B. JUNCTION BOX	R.M. ROOM
L.T. LIGHT	SCH. SCHEDULE
M.D. METRON DETECTOR	SPE. SPARE
M.E. MECHANICAL	TYP. TYPICAL
MET. METAL	U.O.N. UNLESS OTHERWISE NOTED
M.F. MANUFACTURER	
M.N. MINIMUM	
M.T.D. MOUNTED	
N.L.C. NOT IN CONTRACT	
N.T.S. NOT TO SCALE	
N.N. NECESSARY	
NO.# NUMBER	

NOTE: 75% OF LIGHT LAMPS SHALL BE HIGH EFFICIENCY



- ELECTRICAL SYMBOLS**
- STANDARD SWITCH - SET 38" A.F.F. - U.N.O.
 - DUAL SWITCH STACK - SET 38" A.F.F. - U.N.O.
 - 3-WAY SWITCH - SET 38" A.F.F. - U.N.O.
 - 4-WAY SWITCH - SET 38" A.F.F. - U.N.O.
 - CONVENIENCE OUTLET @ 12" A.F.F. - U.N.O. (AFCI)
 - CONV. OUTLET- SET 42" A.F.F. - U.N.O.
 - CONV. OUTLET- GROUND FAULT INTERRUPT
 - CONV. OUTLET- ABOVE SET 42" A.F.F. - GROUND FAULT INTERRUPT
 - CONV. OUTLET- WATERPROOF - GROUND FAULT INTERRUPT
 - CONVENIENCE OUTLET - 1/2 SWITCHED 12" A.F.F.
 - GARAGE DOOR OPENER
 - FLOOR OUTLET
 - 220V 220V OUTLET
 - DISHWASHER OUTLET
 - TELEVISION OUTLET
 - TELEPHONE OUTLET
 - DOOR CHIMES
 - CONTROL CONSOLE
 - CEILING FAN PREWIRE PROVIDE ADEQUATE SUPPORT
 - CEILING FAN/LIGHT PREWIRE PROVIDE ADEQUATE SUPPORT
 - LIGHT FIXTURE
 - LIGHT FIXTURE WITH PULL CHAIN
 - SURFACE MOUNTED LIGHT FIXTURE
 - SURFACE MOUNTED LIGHT FIXTURE WITH PULL CHAIN
 - FAN - VENT TO EXTERIOR
 - FAN/LIGHT COMBO - VENT TO EXTERIOR
 - FAN-LIGHT COMBO VENT TO EXT.
 - DOORBELL - SET 32" A.F.F.
 - RECESSED LIGHT FIXTURE
 - OPTIONAL RECESSED LIGHT FIXTURE
 - THERMOSTAT
 - ELECTRICAL PANEL
 - ELECTRICAL METER
 - FLOURESCENT LIGHT
 - FLOOD LIGHT
 - S.M.O. SMOKE DETECTOR - AC POWERED, INTERCONNECTED W/ BATTERY BACK-UP - LOCATE 4'-0" MIN. FROM RA REGISTERS (LOCATE @ HIGHEST POINT OF A VOLUME CEILING)
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 - COMPRESSOR
 - ELECTRICAL RUN
 - OPT. ELECTRICAL RUN

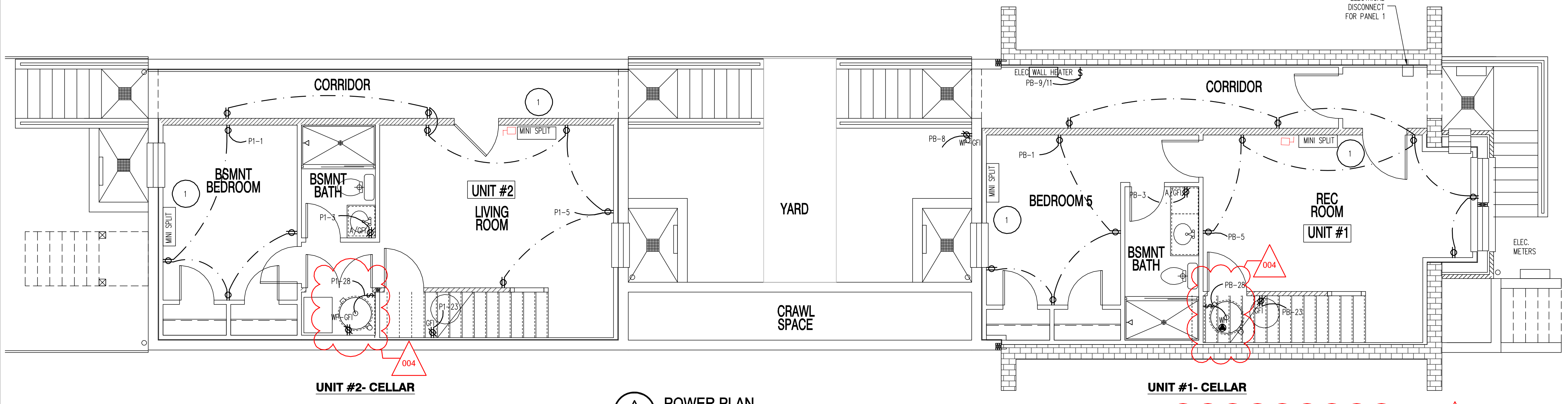
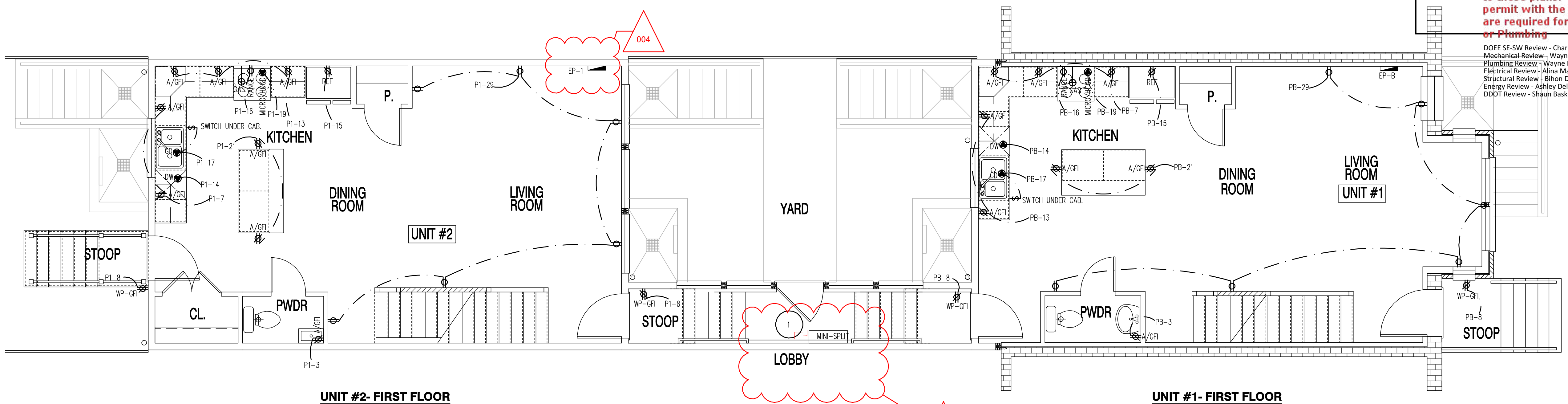
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- OPT. ELECTRICAL RUN



A POWER PLAN
 SCALE: 1/4" = 1'-0"

1 PROVIDE INTERCONNECTING WIRING FROM OUTDOOR UNIT

22x34 Plotted at 1/4"=1'-0" - 11x17 Plotted at 1/8" = 1'-0"

1125 7th St NE - STONY CREEK HOMES
POWER PLAN - CELLAR & 1ST



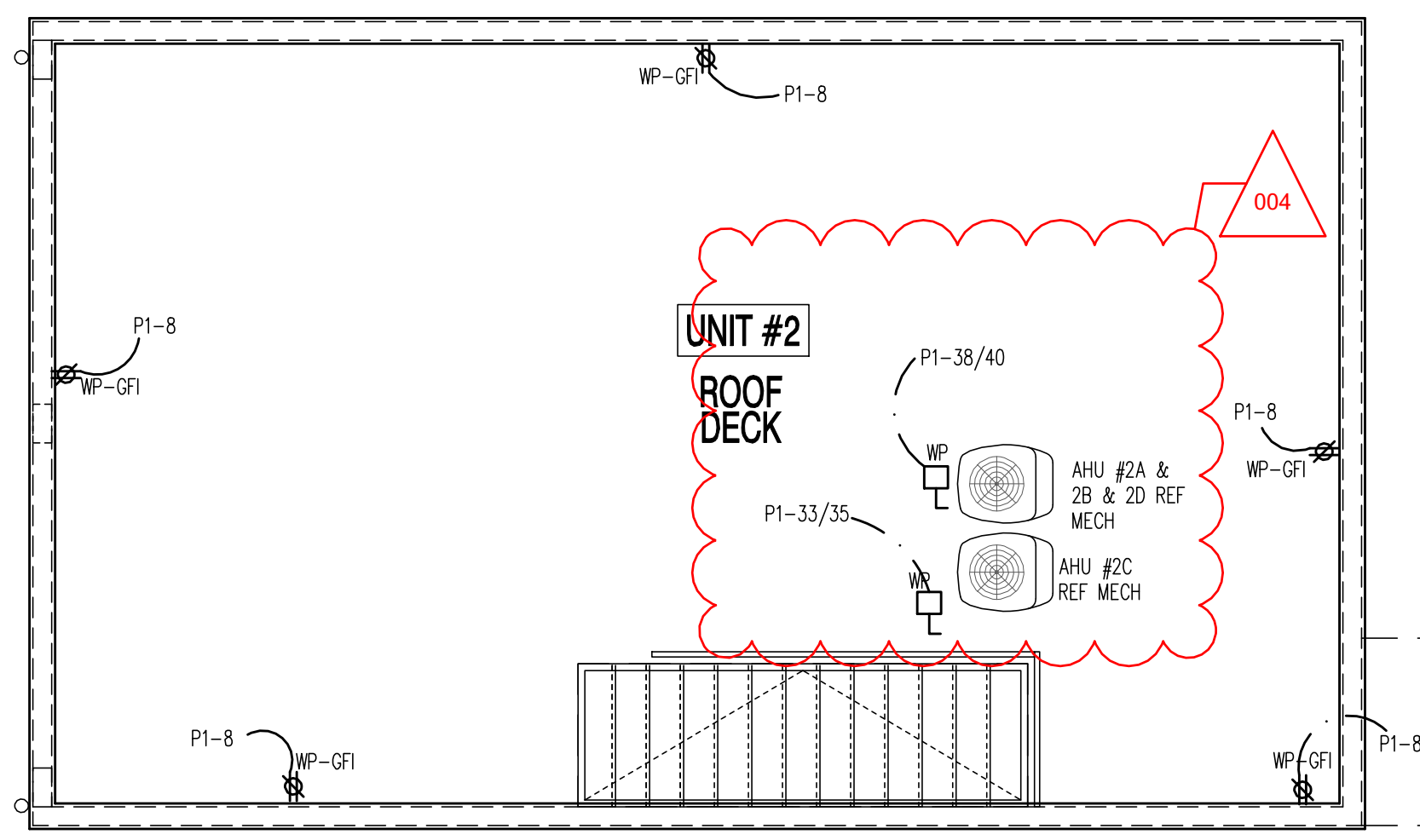
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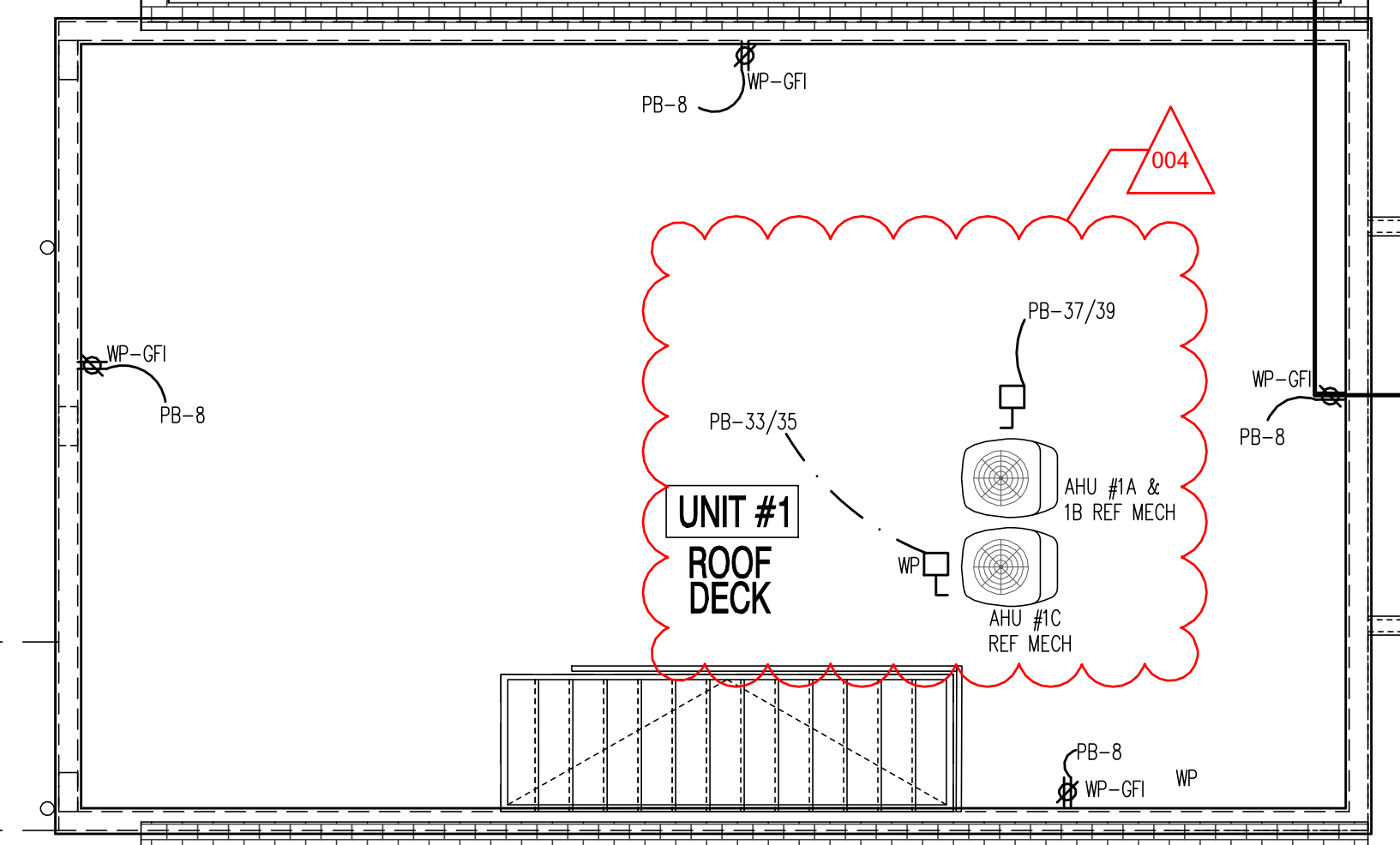
SHEET No.
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ELECTRICAL SYMBOLS

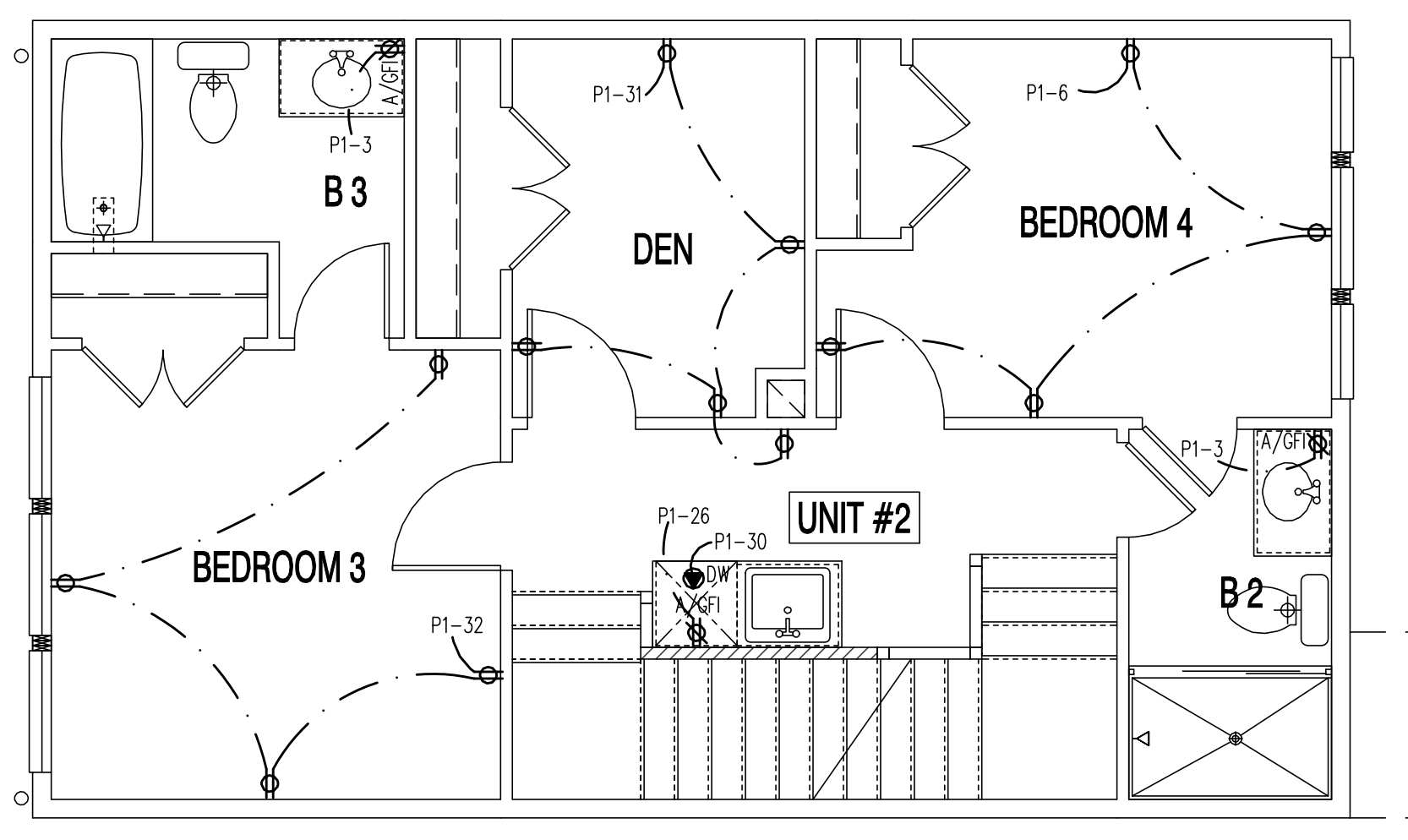
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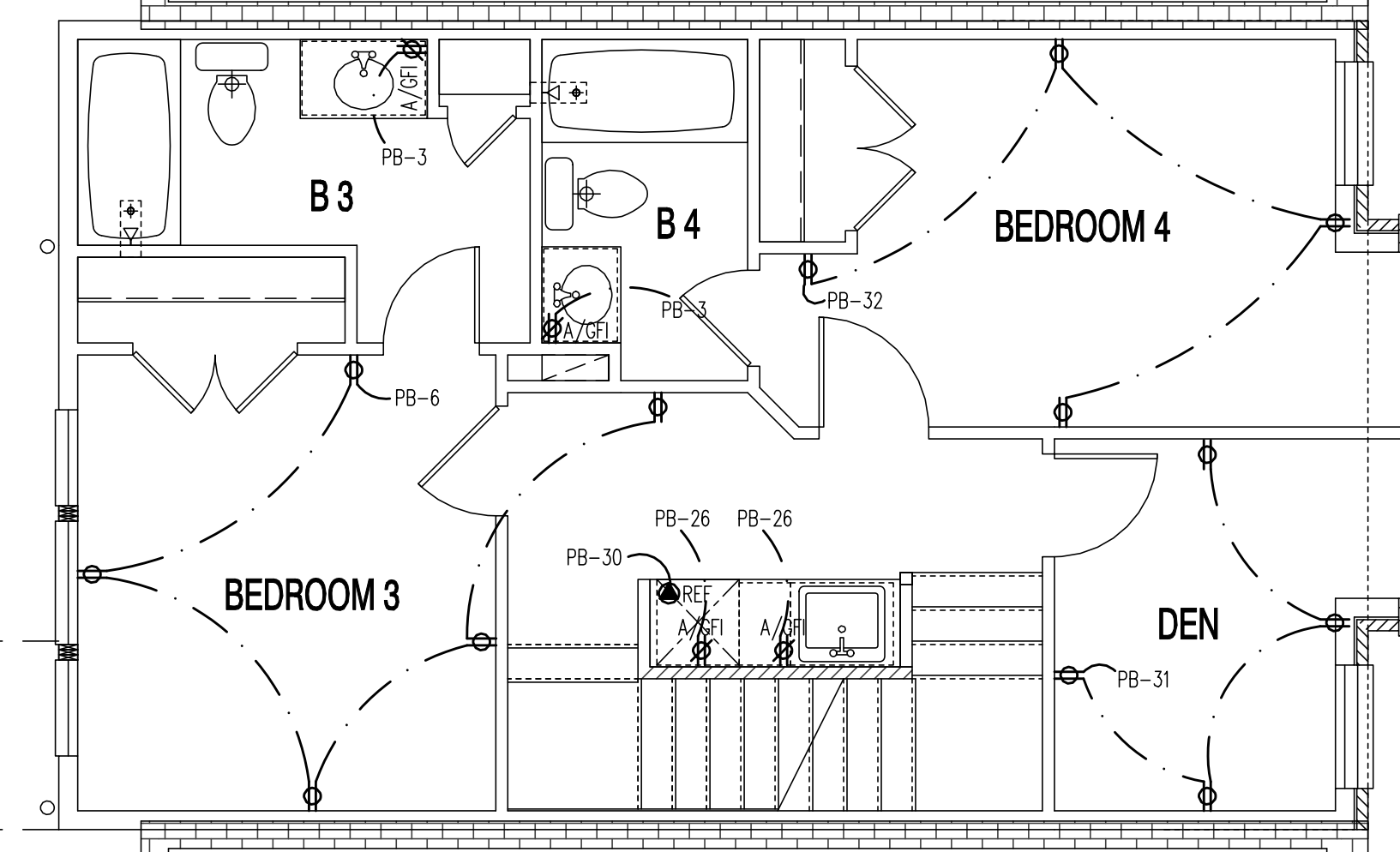
UNIT #2-ROOF DECK



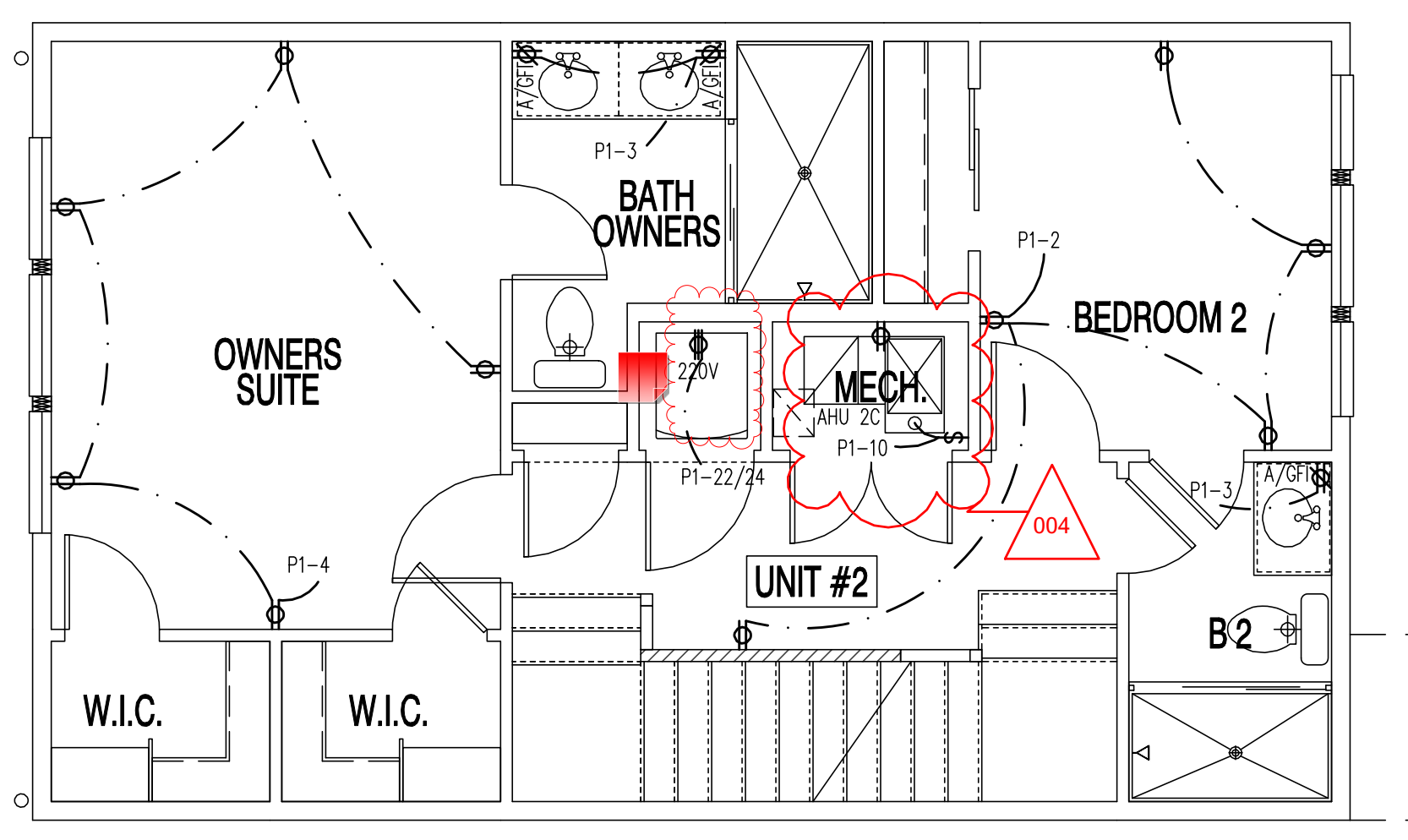
UNIT #1-ROOF DECK



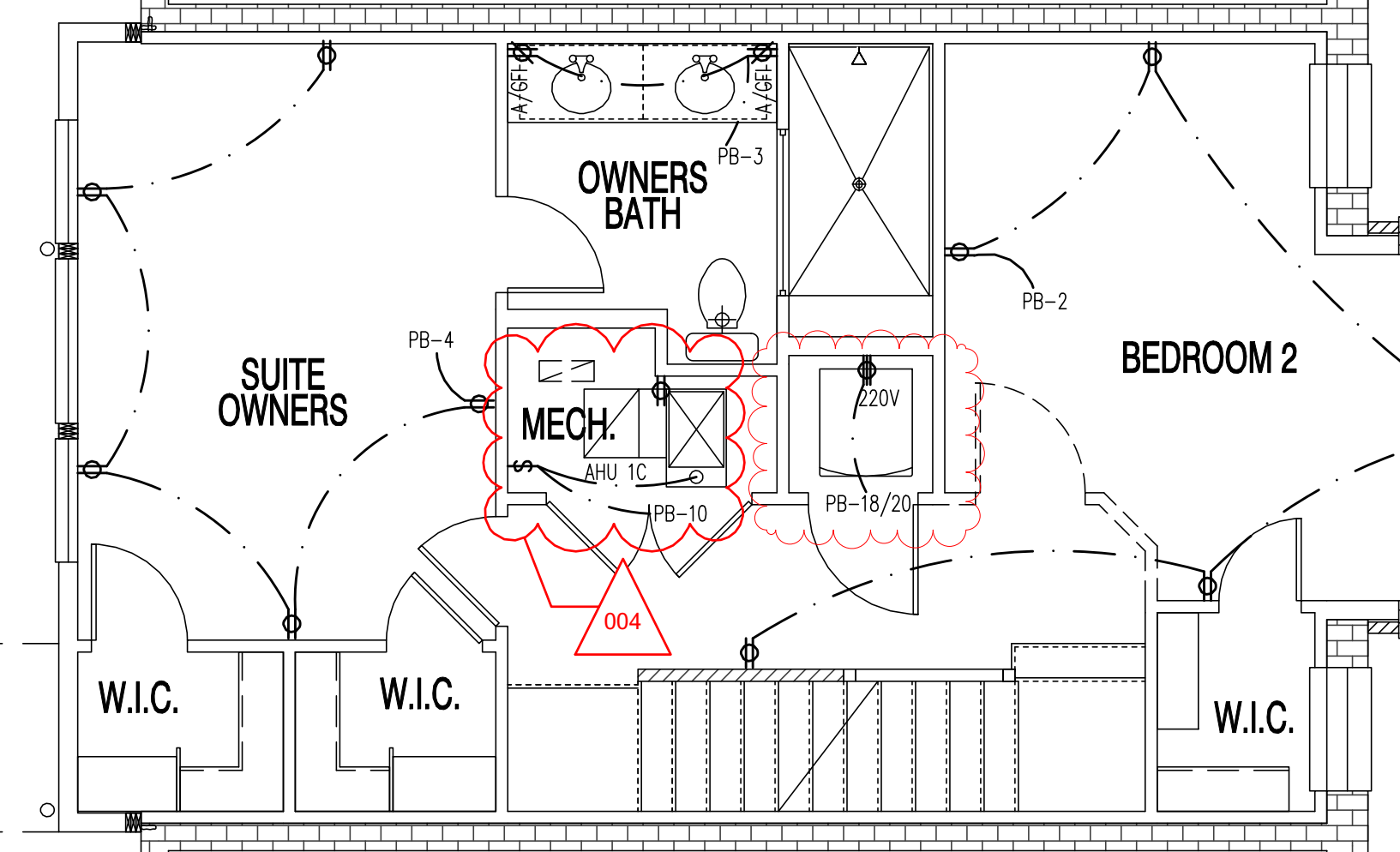
UNIT #2-THIRD FLOOR



UNIT #1-THIRD FLOOR



UNIT #2-SECOND FLOOR



UNIT #1-SECOND FLOOR

POWER PLAN
SCALE: 1/4" = 1'-0"

GOVERNMENT OF THE DISTRICT OF COLUMBIA
PERMIT OPERATIONS DIVISION
PLANS moment
Permit No. 81805207 Date 03/10/17
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1125 7th St NE - STONY CREEK HOMES
POWER PLAN - 2ND & 3RD



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01.01.17

SHEET No.
E.02

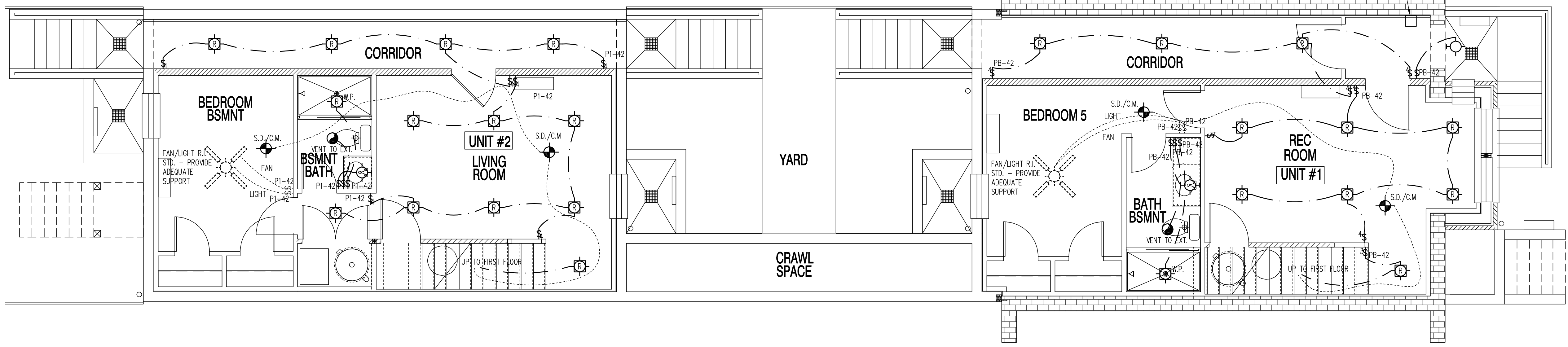
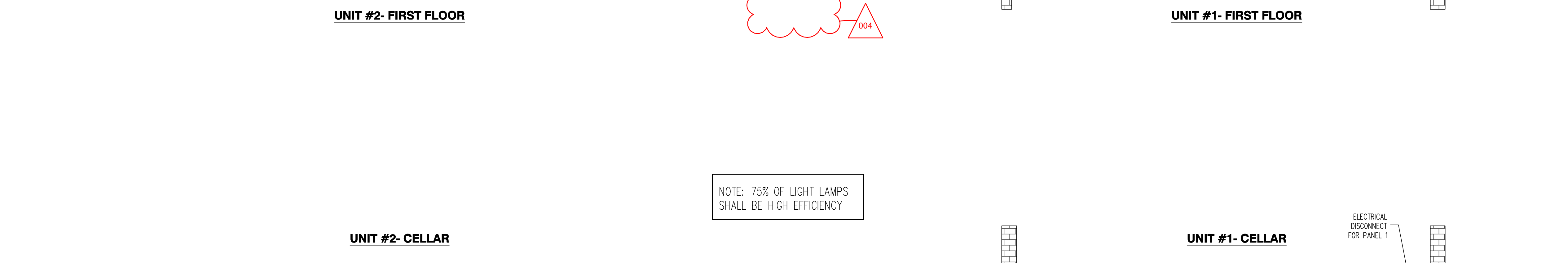
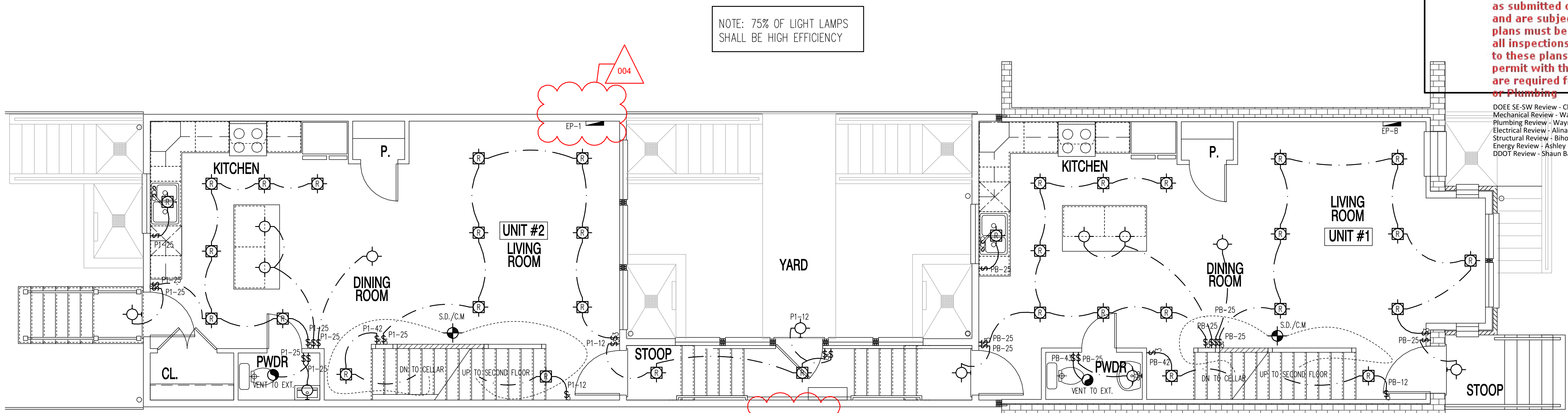
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ELECTRICAL SYMBOLS

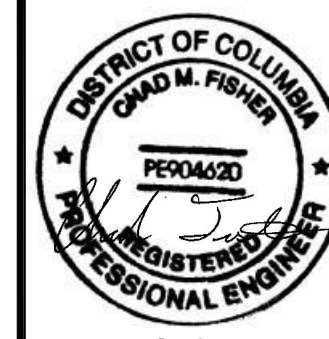
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1125 7th St NE - STONY CREEK HOMES
LIGHTING PLAN - CELLAR & 1ST



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01.01.17

SHEET No.
E.03

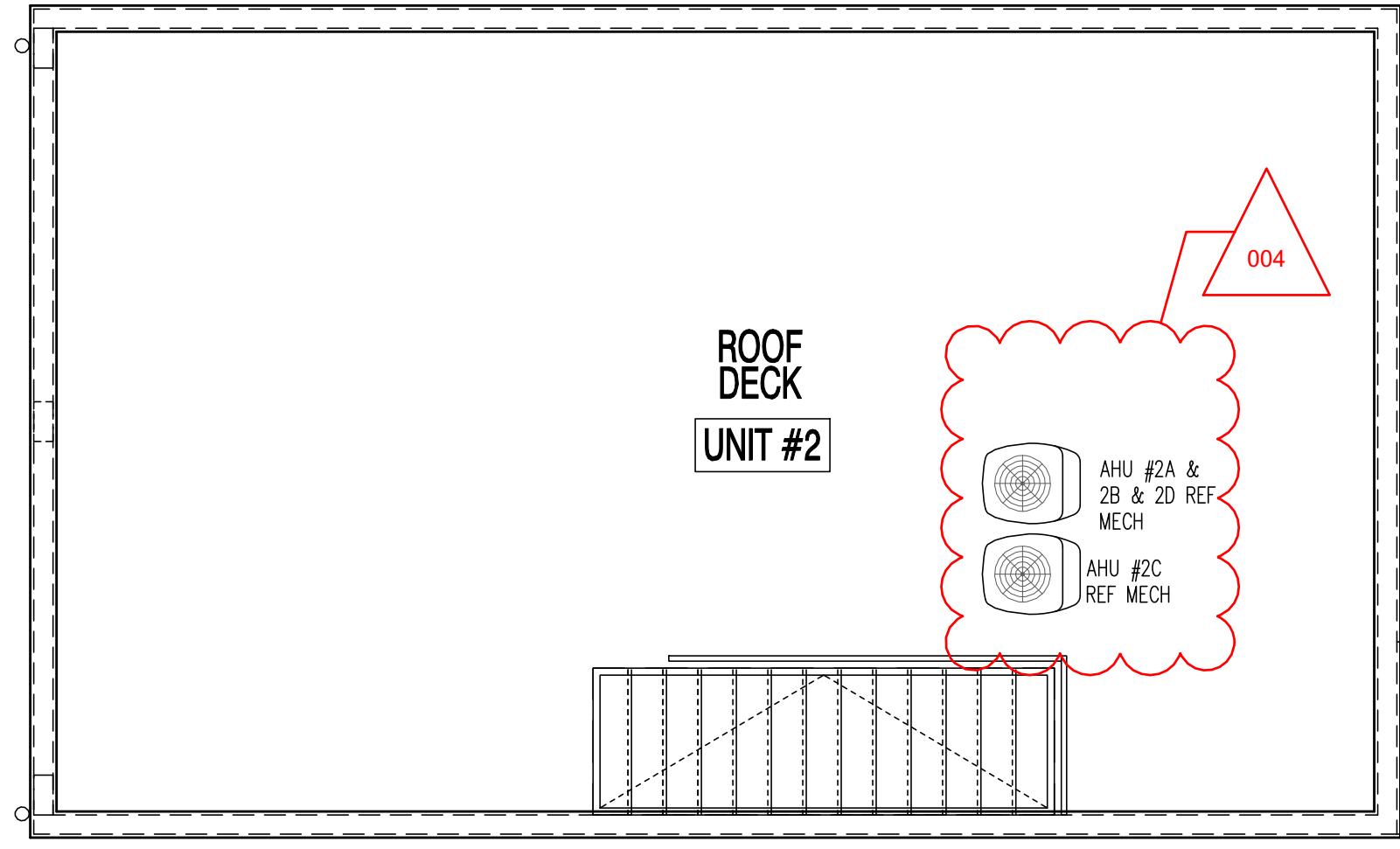
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 IDOT Review - Shaun Baskerville - 04-18-2017

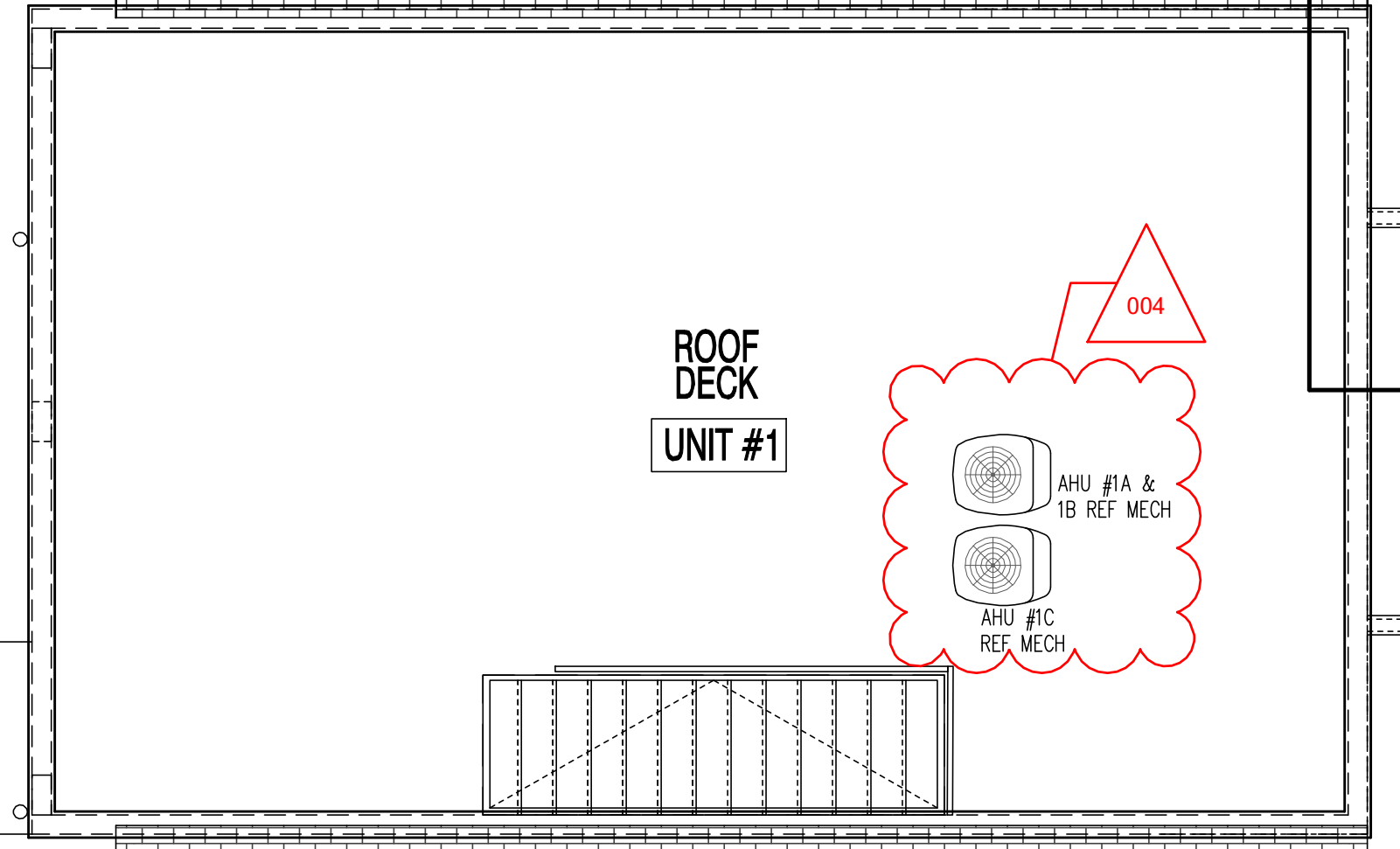
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ELECTRICAL SYMBOLS

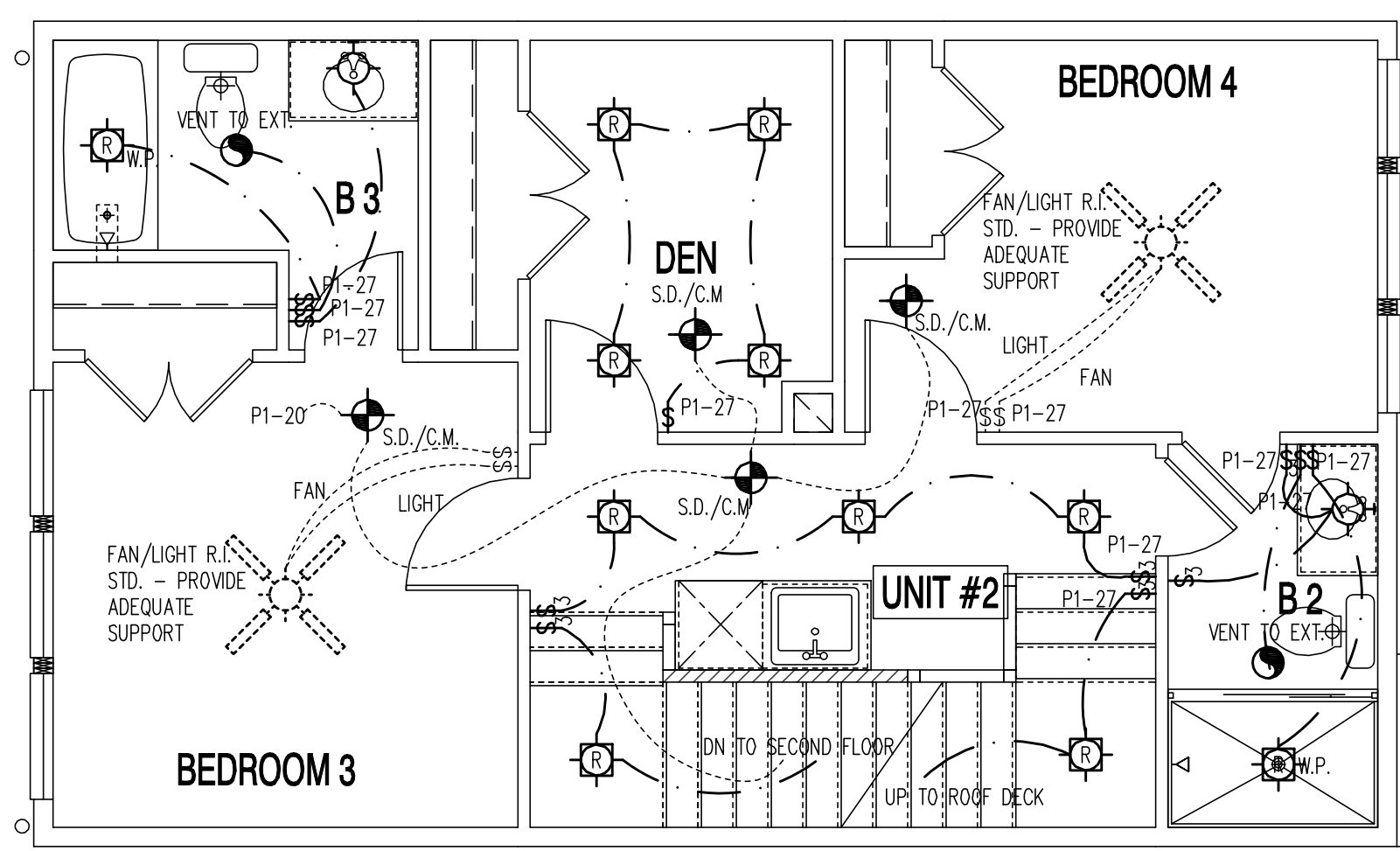
- STANDARD SWITCH - SET 38" A.F.F. - U.N.O.
- DUAL SWITCH STACK - SET 38" A.F.F. - U.N.O.
- 3-WAY SWITCH - SET 38" A.F.F. - U.N.O.
- 4-WAY SWITCH - SET 38" A.F.F. - U.N.O.
- CONVENIENCE OUTLET @ 12" A.F.F. - U.N.O.
- CONV. OUTLET- SET 42" A.F.F. - U.N.O.
- CONV. OUTLET- GROUND FAULT INTERRUPT
- CONV. OUTLET- ABOVE SET 42" A.F.F. - GROUND FAULT INTERRUPT
- CONV. OUTLET- WATERPROOF - GROUND FAULT INTERRUPT
- CONVENIENCE OUTLET - 1/2 SWITCHED 12" A.F.F.
- GARAGE DOOR OPENER
- FLOOR OUTLET
- 220 VOLT OUTLET
- DISHWASHER OUTLET
- TELEVISION OUTLET
- TELEPHONE OUTLET
- DOOR CHIMES
- CONTROL CONSOLE
- CEILING FAN PREMISE PROVIDE ADEQUATE SUPPORT
- CEILING FAN/LIGHT PREMISE PROVIDE ADEQUATE SUPPORT
- LIGHT FIXTURE
- LIGHT FIXTURE WITH PULL CHAIN
- SURFACE MOUNTED LIGHT FIXTURE
- SURFACE MOUNTED LIGHT FIXTURE WITH PULL CHAIN
- FAN - VENT TO EXTERIOR
- FAN/LIGHT COMBO - VENT TO EXTERIOR
- DOORBELL - SET 32" A.F.F.
- RECESSED LIGHT FIXTURE
- OPTIONAL RECESSED LIGHT FIXTURE
- THERMOSTAT
- ELECTRICAL PANEL
- ELECTRICAL METER
- FLUORESCENT LIGHT
- FLOOD LIGHT
- S.D. SMOKE DETECTOR - AC POWERED, INTERCONNECTED W/ BATTERY BACK-UP - LOCATE 4'-0" MIN. FROM RA REGISTERS (LOCATE @ HIGHEST POINT OF A VOLUME CEILING)
- S.D./C.M. COMBINATION SMOKE/CARBON MONOXIDE DETECTOR ONLY IF REQ'D BY LOCAL CODE. AC POWERED, INTERCONNECTED W/ BATTERY BACK-UP LOCATE 4'-0" MIN. FROM RA REGISTERS (LOCATE @ HIGHEST POINT OF A VOLUME CEILING)
- COMPRESSOR
- ELECTRICAL RUN
- OPT. ELECTRICAL RUN



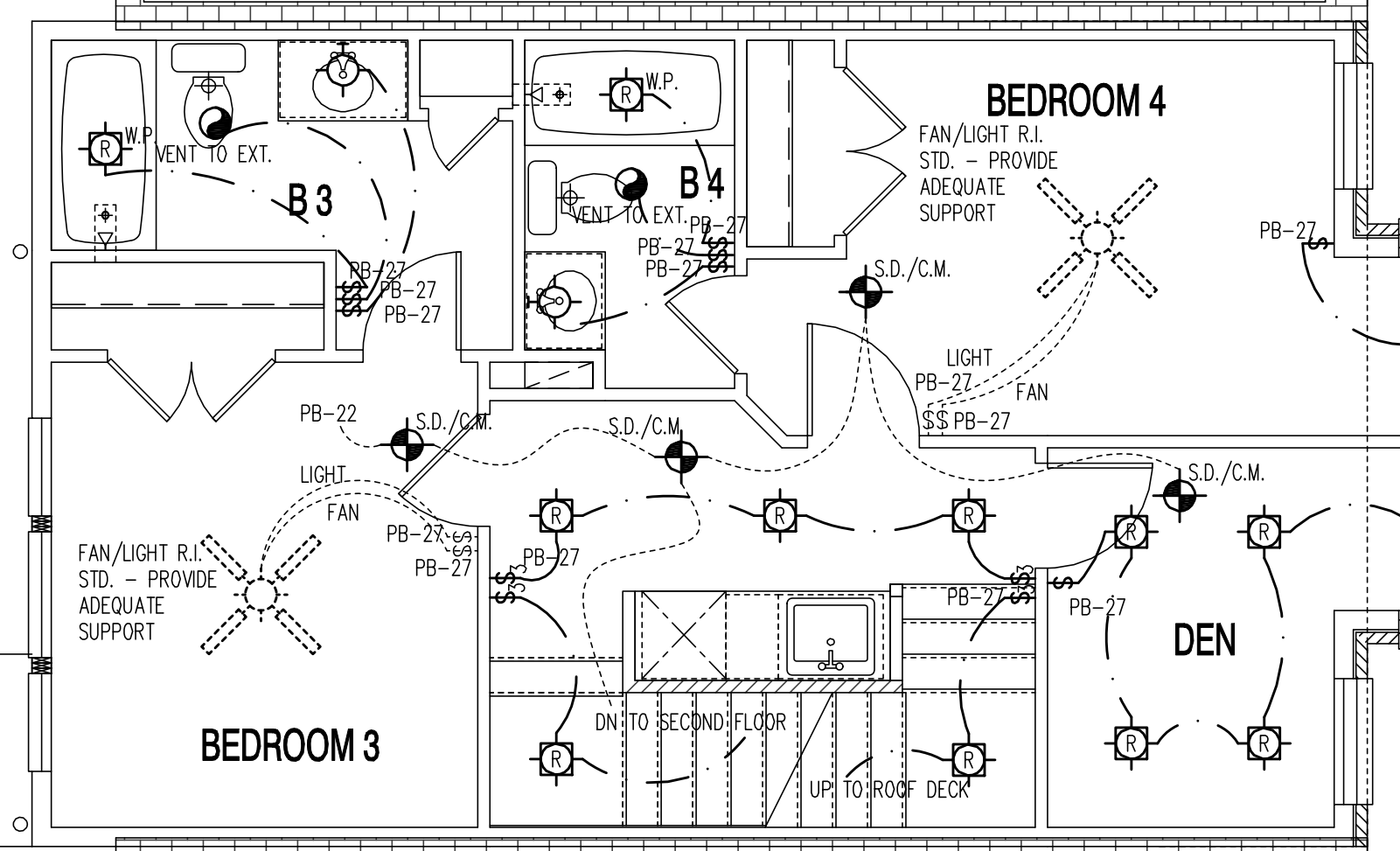
UNIT #2-ROOF DECK



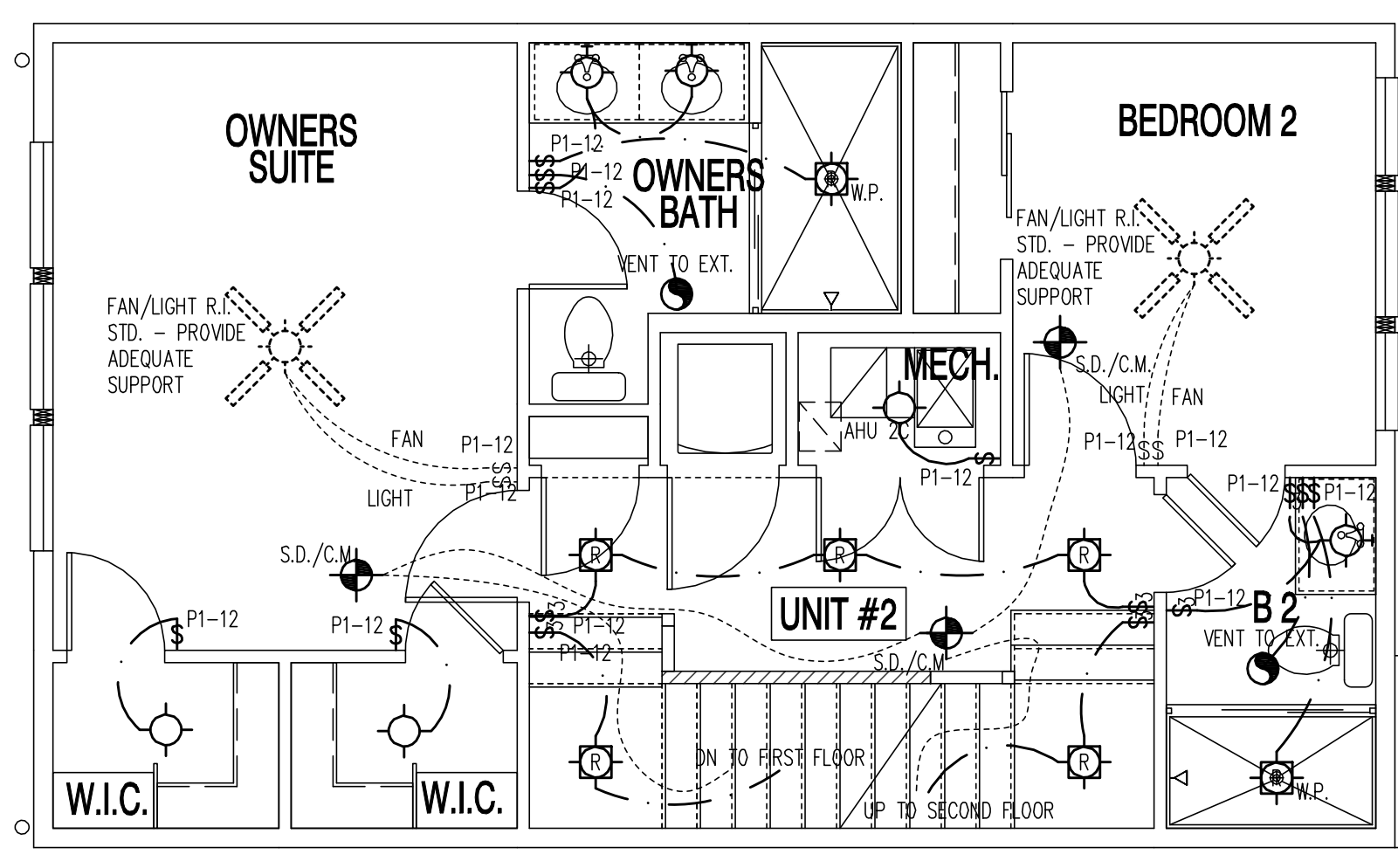
UNIT #1-ROOF DECK



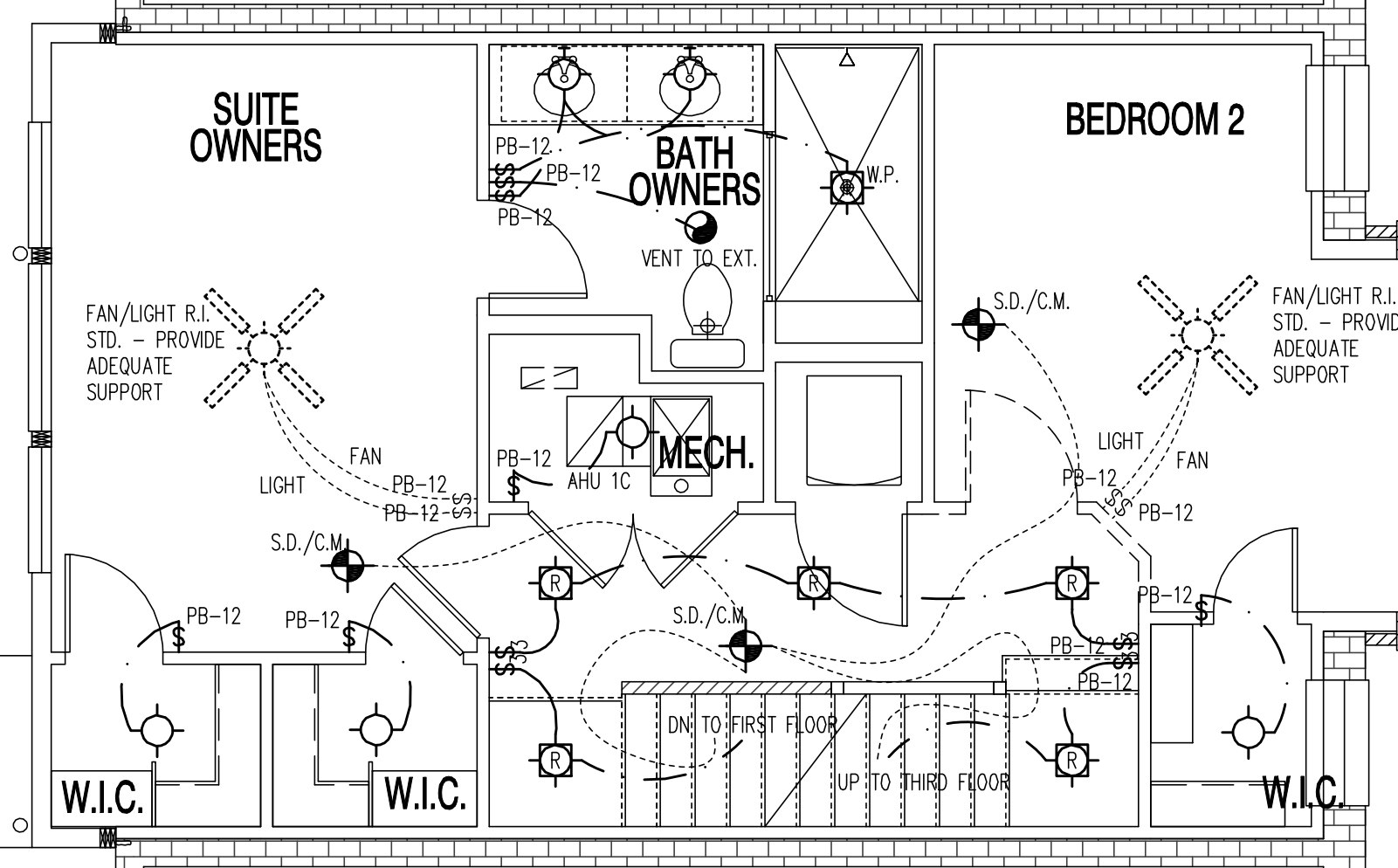
UNIT #2-THIRD FLOOR



UNIT #1-THIRD FLOOR



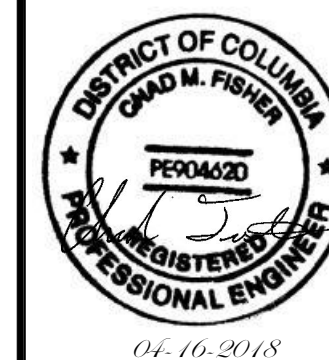
UNIT #2-SECOND FLOOR



UNIT #1-SECOND FLOOR

A LIGHTING PLAN
 SCALE: 1/4" = 1'-0"

22x34 Plotted at 1/4" = 1'-0" - 11x17 Plotted at 1/8" = 1'-0"
 1125 7th St NE - STONY CREEK HOMES
 LIGHTING PLAN - 2ND & 3RD



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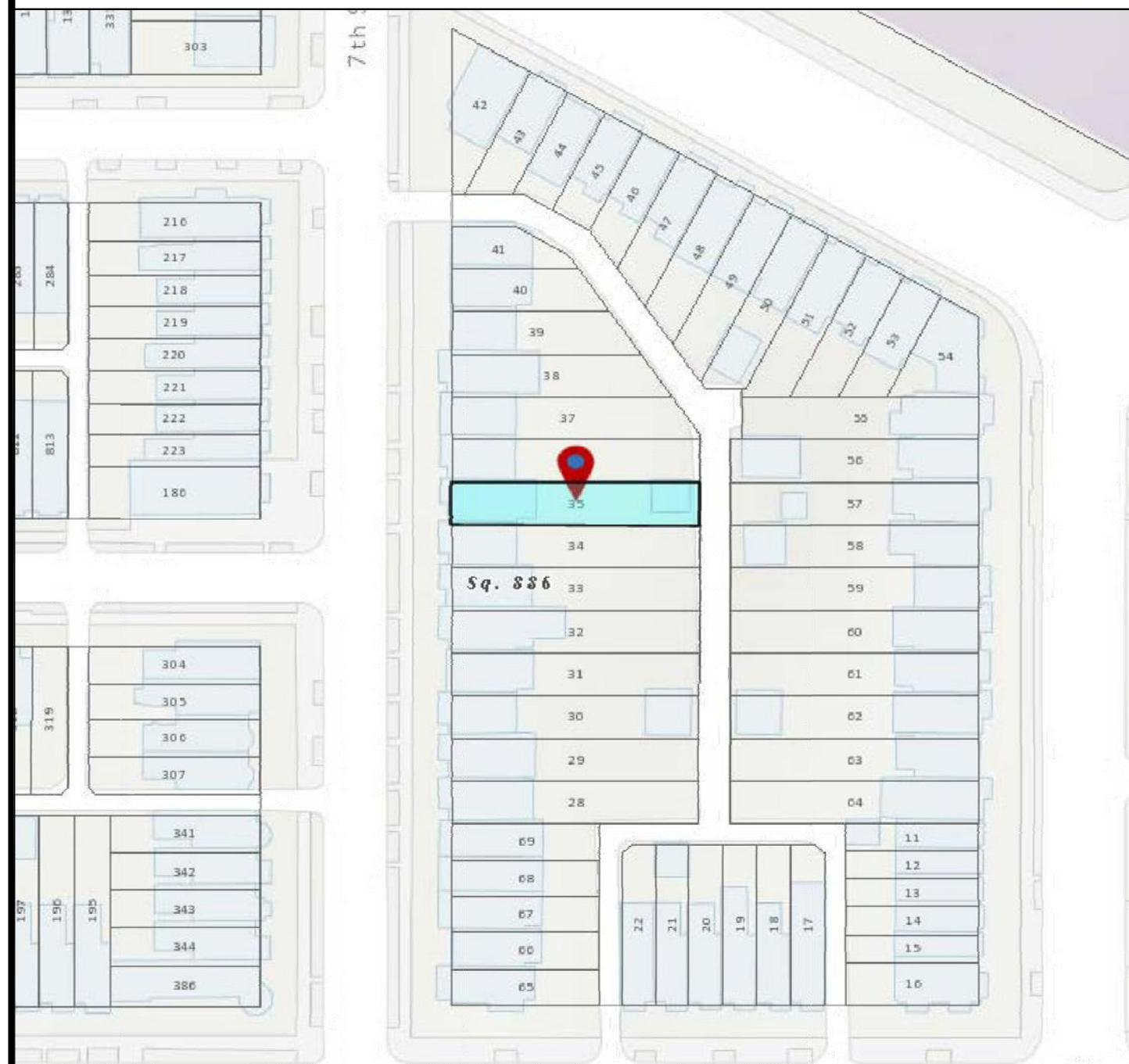
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CONSTRUCTION SEQUENCE

1. PRIOR TO CLEARING OF ANY TREES OR SHRUBS, INSTALLATION OF SEDIMENT CONTROL MEASURES OR GRADING, A PRECONSTRUCTION MEETING MUST BE CONDUCTED ON-SITE WITH THE DISTRICT OF COLUMBIA SEDIMENT CONTROL INSPECTOR. NOTIFY THE DISTRICT OF COLUMBIA AT LEAST 48 HOURS PRIOR TO BEGINNING OF ANY WORK.
2. THE LIMITS OF DISTURBANCE MUST BE FIELD MARKED PRIOR TO CLEARING OF TREES, INSTALLATION OF SEDIMENT CONTROL MEASURES, CONSTRUCTION OR OTHER LAND DISTURBING ACTIVITIES.
3. REMOVE EXISTING FENCES AND INSTALL EROSION CONTROL DEVICES INCLUDING STABILIZED CONSTRUCTION ENTRANCE, SILT FENCES AND ANY OTHER DEVICES SHOWN ON THE APPROVED SEDIMENT CONTROL PLAN AND AS DIRECTED BY THE SEDIMENT CONTROL INSPECTOR.
4. CLEAR AND GRUB SITE, EXCAVATE TO SUBGRADE FOR BASEMENT. EXCAVATED MATERIAL TO BE REMOVED FROM PROJECT SITE AND SHALL BE STOCKPILED NO LONGER THAN 7 DAYS. IF SCHEDULING REQUIRES EXCAVATED MATERIALS TO REMAIN ON SITE LONGER THAN 7 DAYS THE STOCKPILE AREA SHALL BE STABILIZED AND PROTECTED WITH SEDIMENT CONTROL DEVICES.
5. INSTALL FORMS AND CONCRETE BASEMENT WALLS AND STEP WALLS. CONSTRUCT FIRST FLOOR AND ABOVE GRADE FLOORS OF BUILDING.
6. CONSTRUCT PROPOSED UTILITIES AS PER APPROVED PLAN. WORK IN PUBLIC SPACE AND STREET TO BE KEPT CLEAN OF EXCAVATED MATERIAL, SOIL OR MUD.
7. UPON COMPLETION OF BUILDING CONSTRUCTION COMPLETE FINAL GRADING AND LANDSCAPING.
8. AFTER CONSTRUCTION IS COMPLETE AND WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL DEVICES. COMPLETE SITE CLEAN UP.

DEWATERING

- IF DEWATERING IS NECESSARY DURING FOUNDATION CONSTRUCTION, WATER WILL BE PUMPED OUT TO A SEDIMENT CONTROL TANK, THEN TO THE NEAREST CURB INLETS DOWN STREAM. CURB/INLET PROTECTORS WILL BE USED ACCORDING TO THE SEDIMENT CONTROL PLAN.

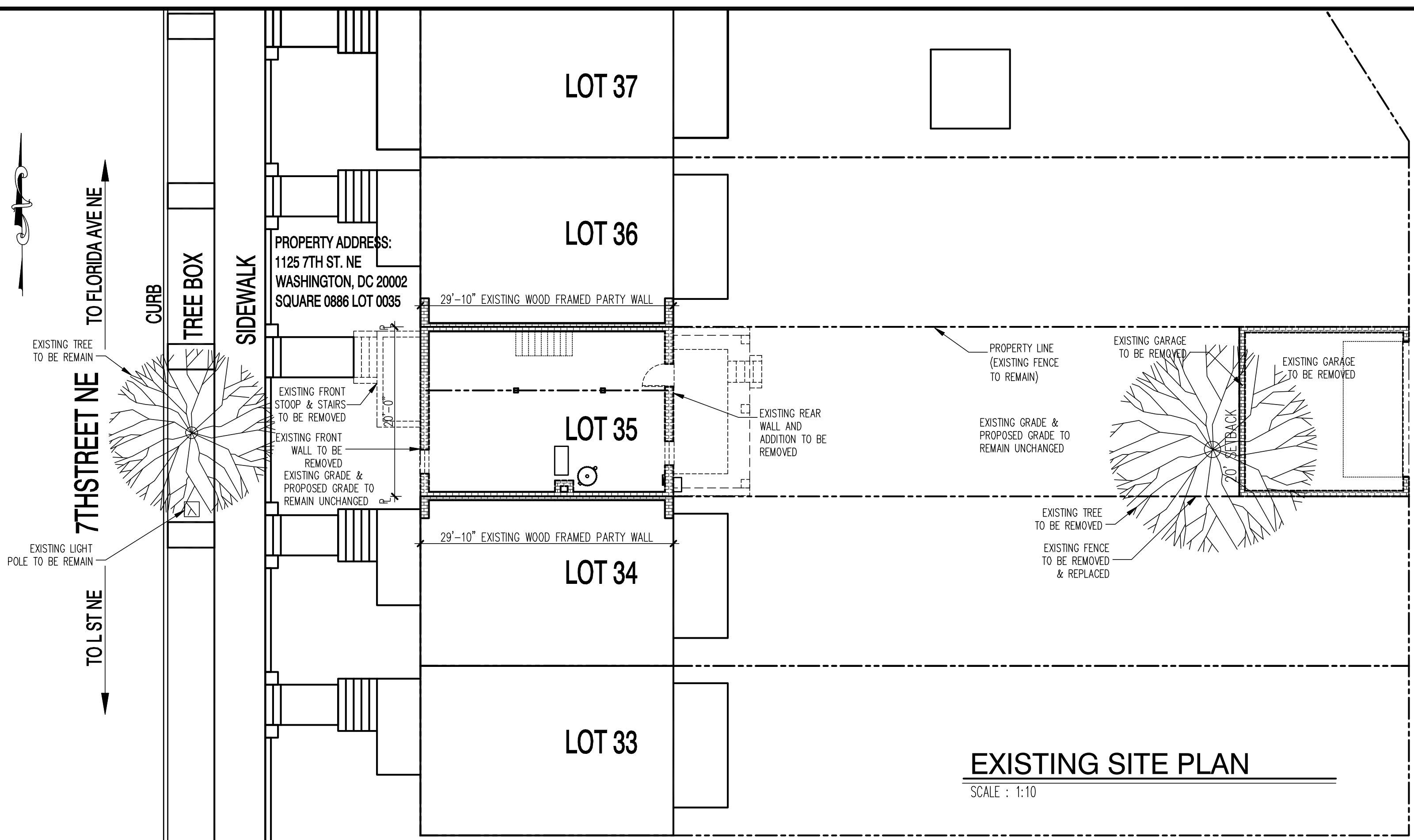


VICINITY MAP

SCALE : NTS

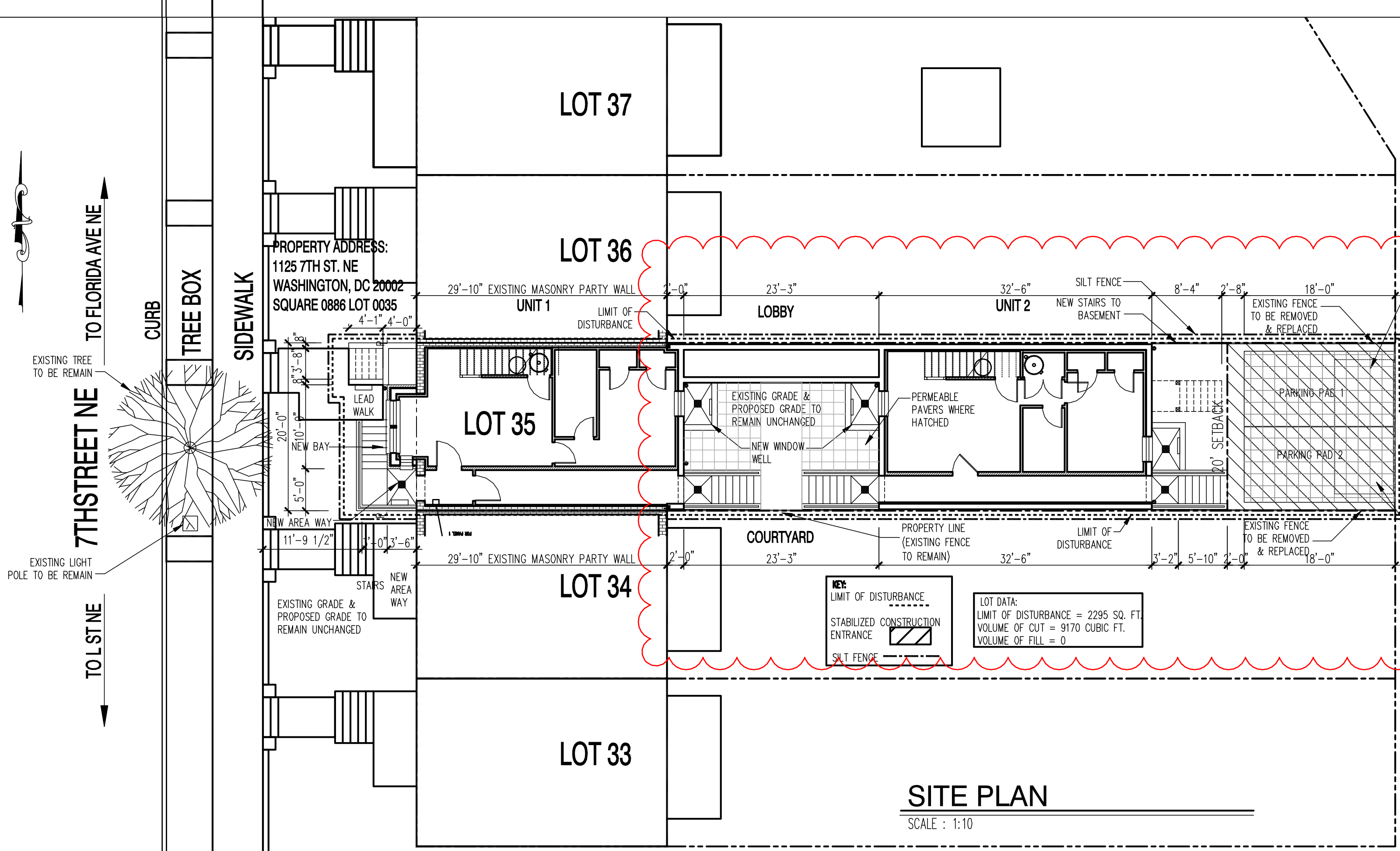
MORTON PL NE

MORTON PL NE



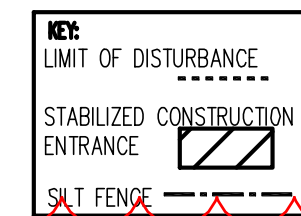
EXISTING SITE PLAN

SCALE : 1:10



SITE PLAN

SCALE : 1:10



LOT DATA:
LIMIT OF DISTURBANCE = 2295 SQ. FT.
VOLUME OF CUT = 9170 CUBIC FT.
VOLUME OF FILL = 0

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22x34 Plotted at 1/4"=1'-0" - 11x17 Plotted at 1/8" = 1'-0"
1125 7th St NE - STONY CREEK HOMES
EROSION CONTROL PLAN



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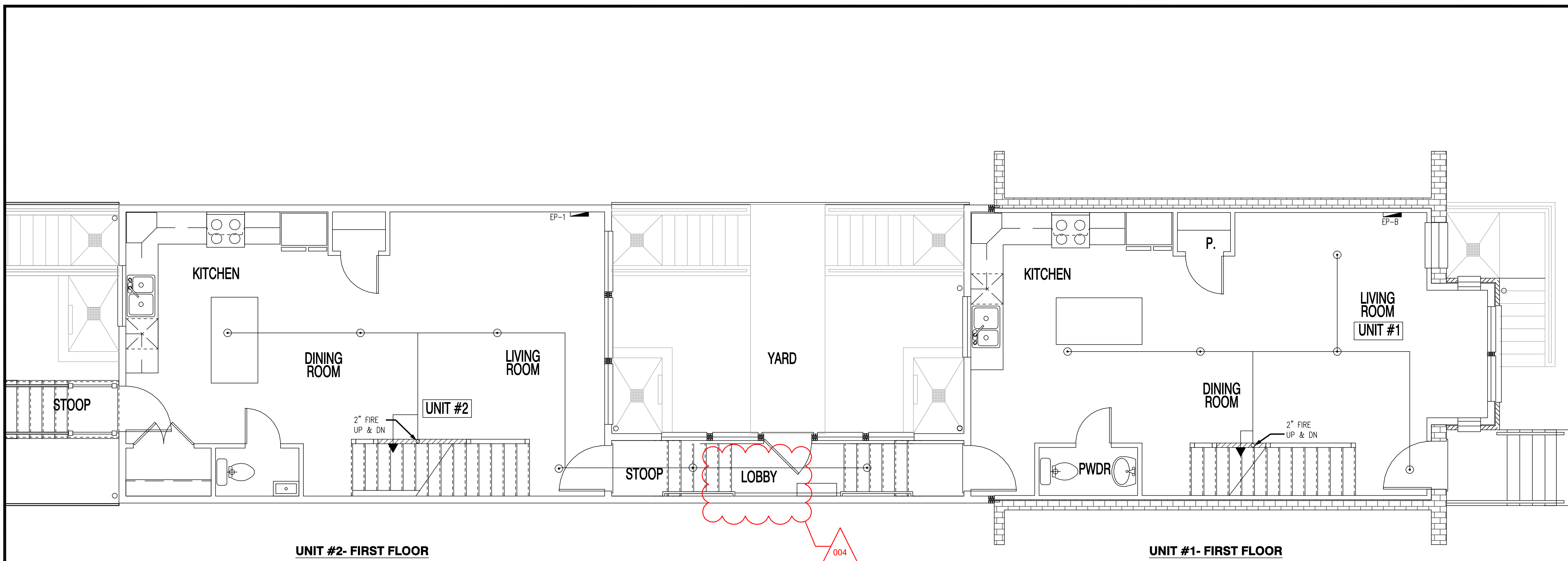
01.01.17

SHEET No.
EC.01

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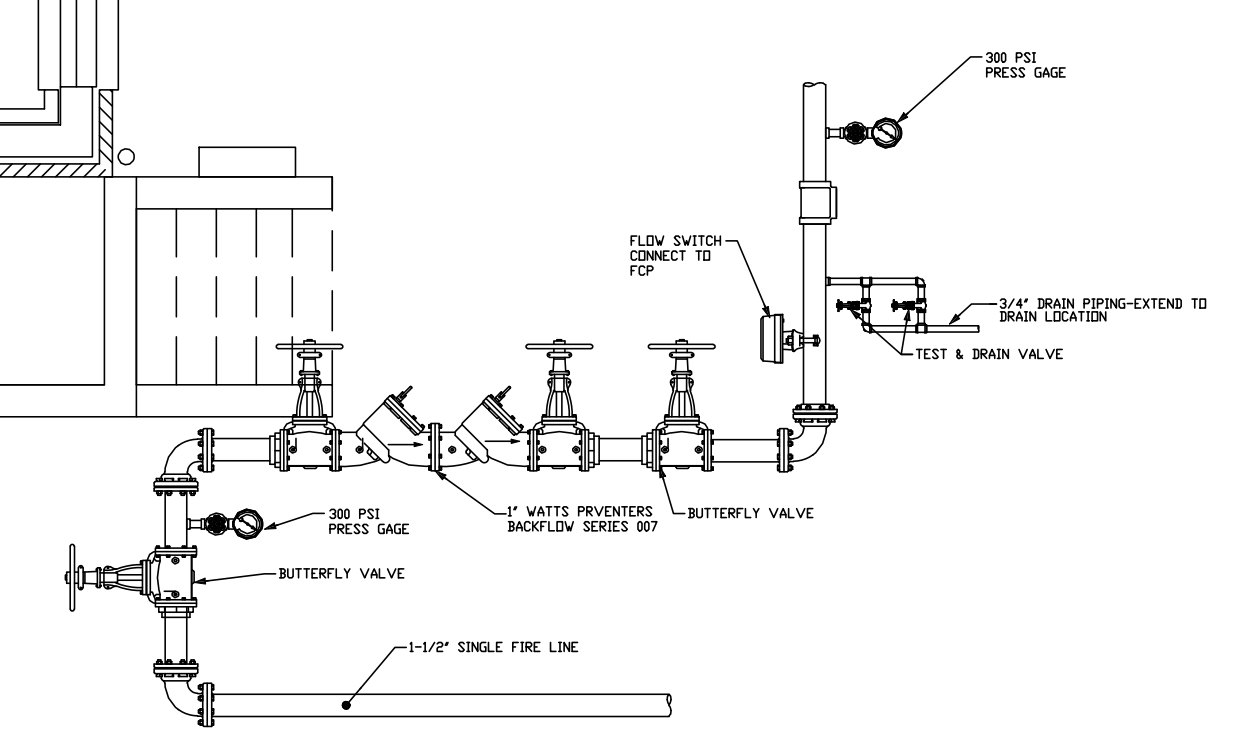
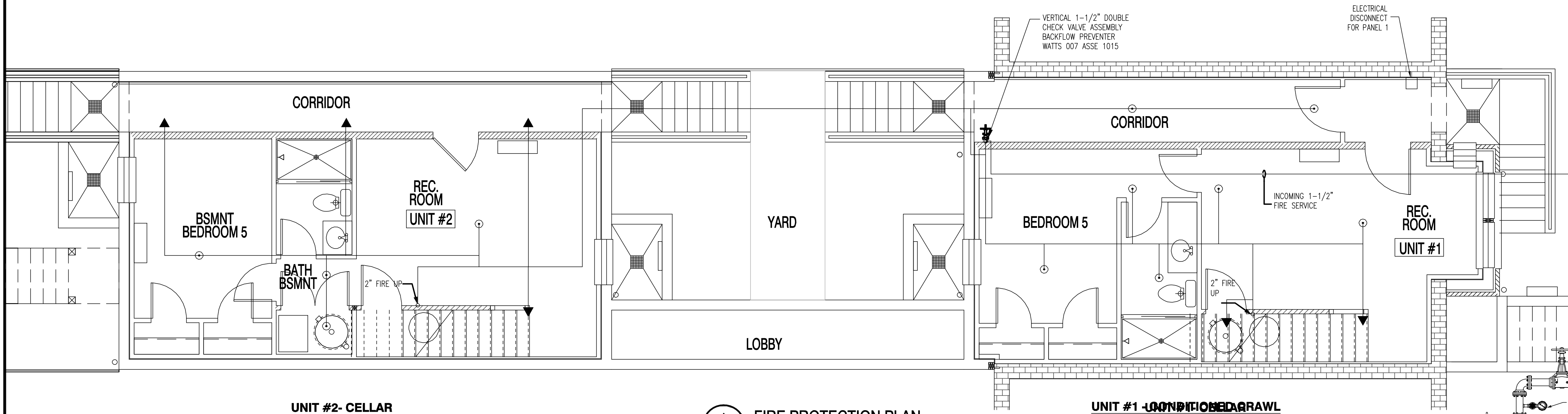
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- ### FIRE PROTECTION NOTES
- THE ENTIRE BUILDING SHALL BE PROTECTED BY A HYDRAULICALLY DESIGNED WET PIPE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13D AND DISTRICT OF COLUMBIA FIRE MARSHAL'S OFFICE.
 - ALL MATERIALS TO BE UL LISTED AS REQUIRED BY NFPA 13D.
 - HEADS SHALL BE WHITE SEMI RECESSED MODEL, WITH 16X16 SPACING, UNLESS OTHERWISE NOTED.
 - ALL HANGERS SHALL CONFORM TO NFPA #13 LOCAL PLUMBING CODES, AND THE MANUFACTURER RECOMMENDATIONS.
 - SPRINKLERS SHALL NOT BE INSTALLED IN CLOSET LESS THAN 24 SQUARE FEET OR BATHROOMS LESS THAN 55 SQUARE FEET.
 - MECHANICAL CLOSETS, LAUNDRY ROOMS SHALL HAVE INTERMEDIATE RATED RESIDENTIAL SPRINKLERS IF AMBIENT TEMPERATURE IS OVER 100 DEGREES F.
 - UNPROTECTED ATTIC SPACE NOT USED FOR STORAGE.
 - SPRINKLER HEADS ARE DESIGNED SO AS NOT TO BE OBSTRUCTED BY LIGHTS, CEILING FIXTURES OR CEILING SLOPES.
 - R-38 BATT INSULATION REQUIRED OVER PIPING IN AREAS SUBJECTED TO FREEZING. (TO BE INSTALLED PRIOR TO HYDRO TEST).
 - ALL PIPING IN UNFINISHED AREAS SHALL BE, (LT) LIGHT WALL STEEL OR TYPE L COPPER.
 - ALL PIPING IN FINISHED AREAS SHALL BE CPVC (UNLESS OTHERWISE NOTED).
 - LITERATURE (DESIGN GUIDE) FOR SPRINKLER HEADS SHALL BE MADE AVAILABLE TO FIELD INSPECTOR ONSITE.
 - UNPROTECTED CLOSETS CONTAIN NO MECHANICAL EQUIPMENT IN ADDITION, WALLS AND CEILINGS ARE LIMITED COMBUSTION OR NON-COMBUSTIBLE.
 - ALL BULKHEADS ARE 12" IN DEPTH UNLESS OTHERWISE NOTED.

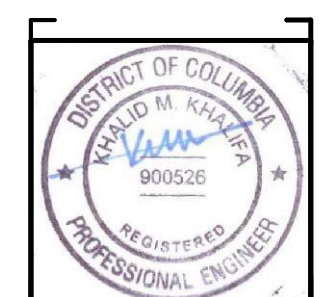
FIRE PROTECTION - SYMBOL LEGEND			
	ISOLATING GATE VALVE		LANDING VALVE
	(PS) PRESSURE SWITCH		ACV WITH DS&Y TYPE
	NON RETURN VALVE		ZONE CONTROL VALVE
	30M HOSE REEL WITH AFF, FDM, EXTINGUISHER, SLITTER, DRY CHEMICAL POWDER 5kg, DOUBLE DOOR CABINET		OS & Y GATE VALVE OR INDICATING BUTTERFLY VALVE
	UPRIGHT SPRINKLER		CHECK VALVE
	PENDENT SPRINKLER		PUMP
	UPRIGHT & PENDENT SPRINKLER		STRAINER
	SIDE WALL SPRINKLER		PRESSURE SWITCH
	ABC DRY POWDER 5kg		FLOW METER
	AFF FDM EXTINGUISHER 9L		PRESSURE GAUGE
	FIRE BLANKET		GATE VALVE
	FM-200 NOZZLE		OS & Y GATE VALVE
	LANDING VALVE		T/A TO ABOVE
			M/H MANHOLE



A FIRE PROTECTION PLAN
SCALE: 1/4" = 1'-0"

22x34 Plotted at 1/4" = 1'-0" - 11x17 Plotted at 1/8" = 1'-0"

1125 7th St NE - STONY CREEK HOMES
FIRE SUPPRESSION PLAN - CELLAR & FIRST FLOORS



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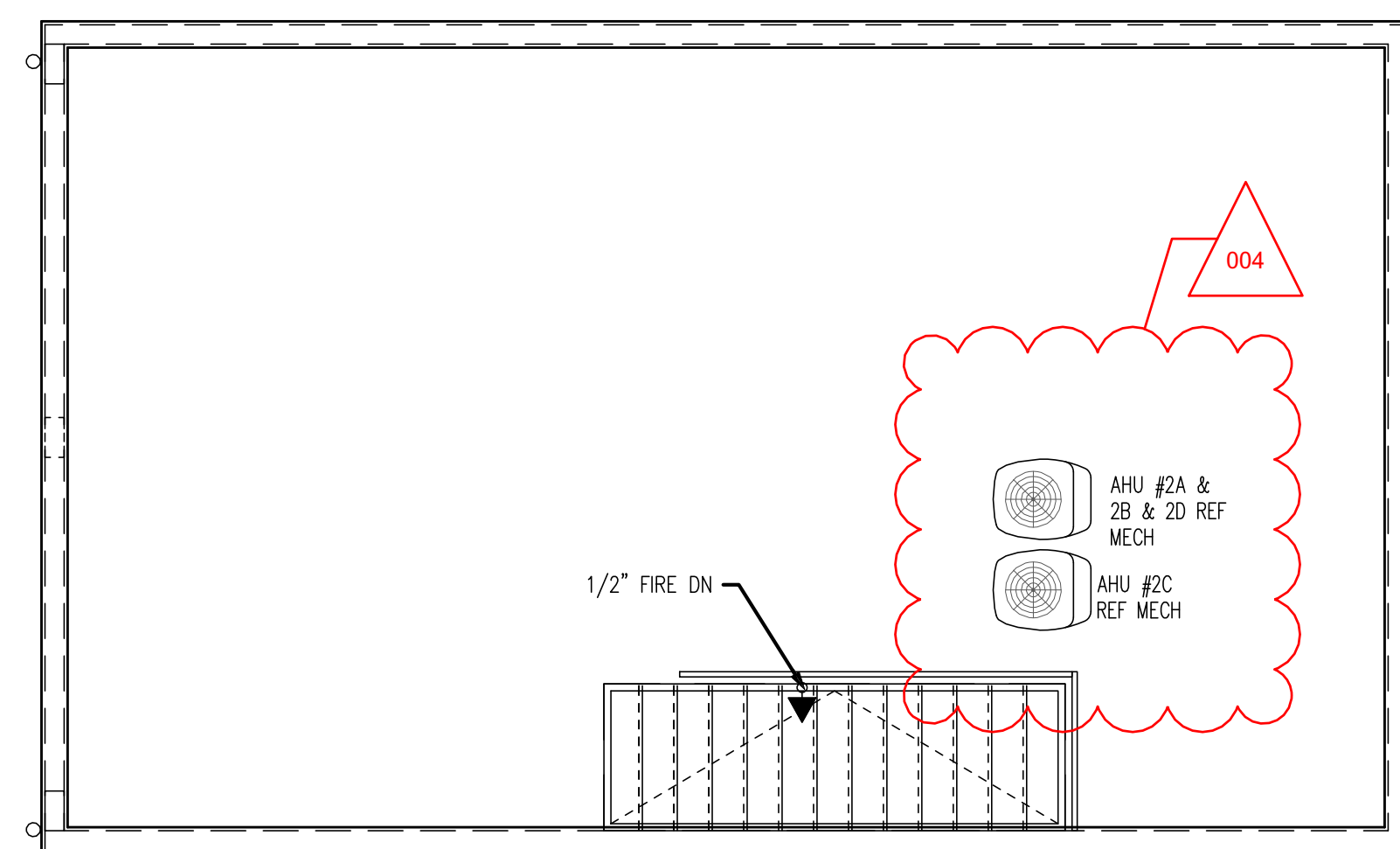
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FIRE PROTECTION NOTES

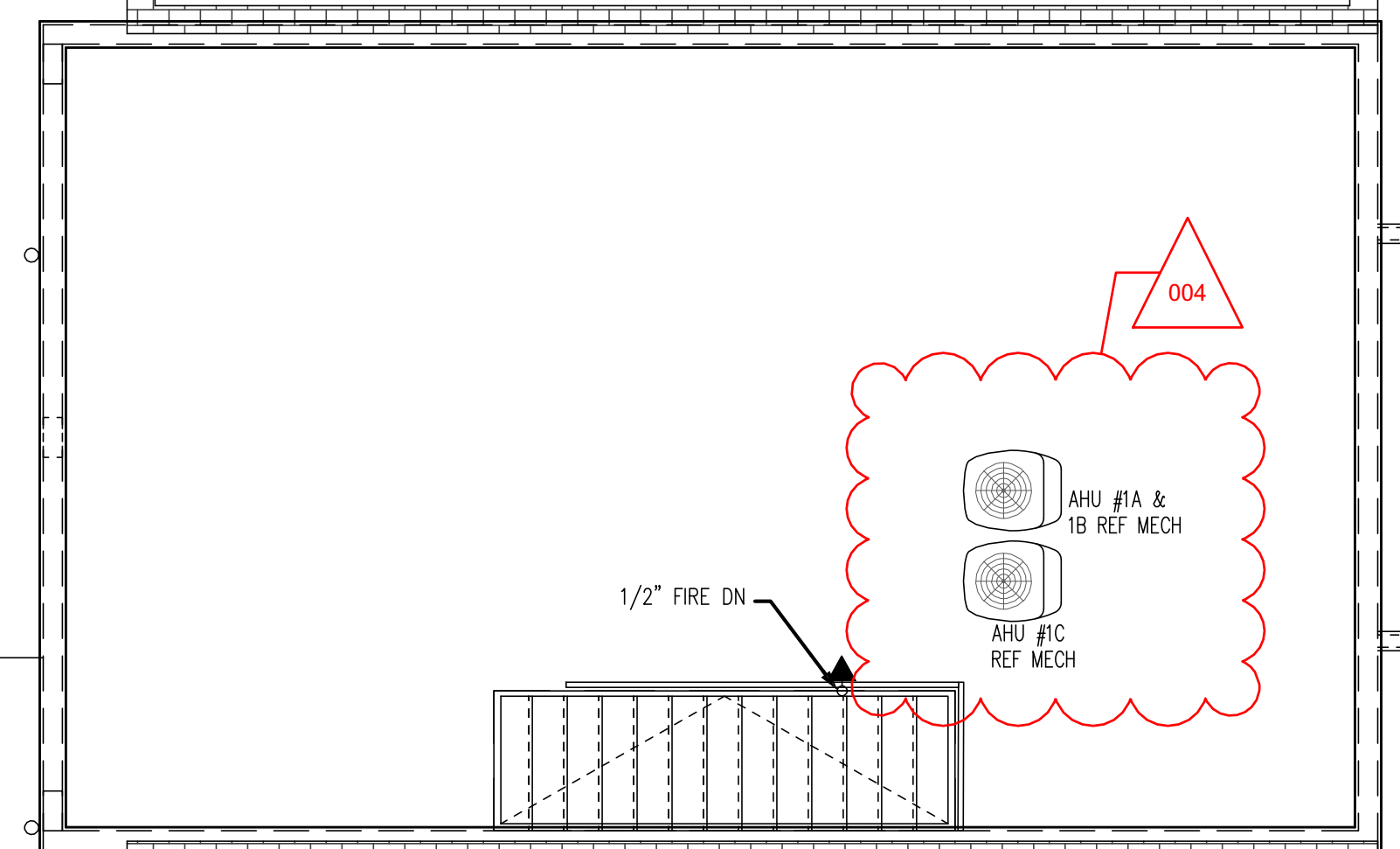
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2. ALL MATERIALS TO BE UL LISTED AS REQUIRED BY NFPA 13R.
3. HEADS SHALL BE WHITE SEMI RECESSED MODEL, WITH 16X16 SPACING, UNLESS OTHERWISE NOTED.
4. ALL HANGERS SHALL CONFORM TO NFPA #13 LOCAL PLUMBING CODES, AND THE MANUFACTURER RECOMMENDATIONS.
5. SPRINKLERS SHALL NOT BE INSTALLED IN CLOSET LESS THAN 24 SQUARE FEET OR BATHROOMS LESS THAN 55 SQUARE FEET.
6. MECHANICAL CLOSETS, LAUNDRY ROOMS SHALL HAVE INTERMEDIATE RATED RESIDENTIAL SPRINKLERS IF AMBIENT TEMPERATURE IS OVER 100 DEGREES F.
7. UNPROTECTED ATTIC SPACE NOT USED FOR STORAGE.
8. SPRINKLER HEADS ARE DESIGNED SO AS NOT TO BE OBSTRUCTED BY LIGHTS, CEILING FIXTURES OR CEILING SLOPES.
9. R-38 BATT INSULATION REQUIRED OVER PIPING IN AREAS SUBJECTED TO FREEZING. (TO BE INSTALLED PRIOR TO HYDRO TEST).
10. ALL PIPING IN UNFINISHED AREAS SHALL BE, (LT) LIGHT WALL STEEL OR TYPE L COPPER.
11. ALL PIPING IN FINISHED AREAS SHALL BE CPVC (UNLESS OTHERWISE NOTED).
12. LITERATURE (DESIGN GUIDE) FOR SPRINKLER HEADS SHALL BE MADE AVAILABLE TO FIELD INSPECTOR ONSITE.
13. UNPROTECTED CLOSETS CONTAIN NO MECHANICAL EQUIPMENT IN ADDITION, WALLS AND CEILINGS ARE LIMITED COMBUSTION OR NON-COMBUSTIBLE.
14. ALL BULKHEADS ARE 12" IN DEPTH UNLESS OTHERWISE NOTED.

FIRE PROTECTION - SYMBOL LEGEND

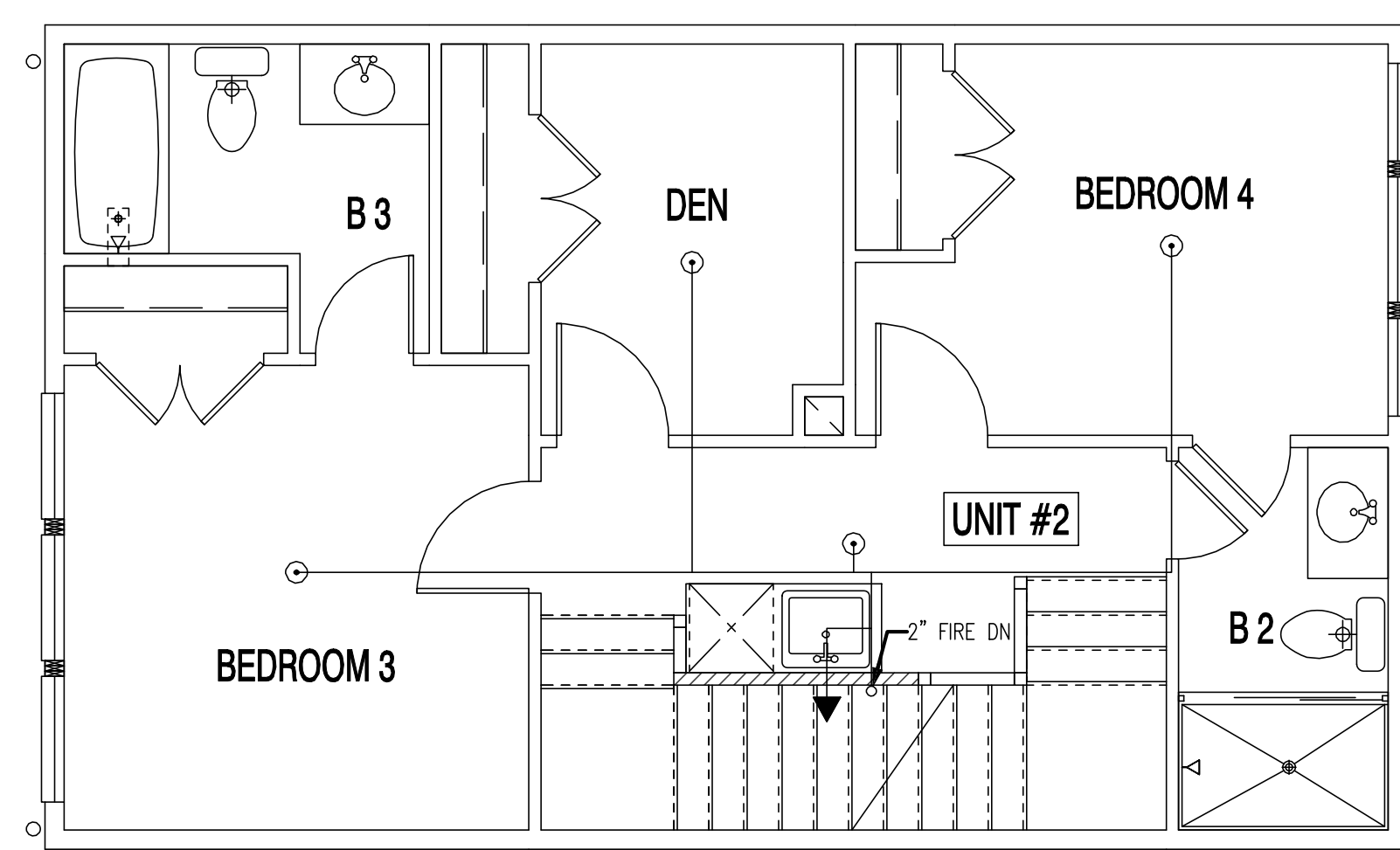
	ISOLATING GATE VALVE		LANDING VALVE
	(PS) PRESSURE SWITCH		ACV WITH DS&Y TYPE
	NON RETURN VALVE		ZONE CONTROL VALVE
	30M HOSE REEL WITH AFF FOAM EXTINGUISHER 9LITERS, DRY CHEMICAL POWDER 5Kg DOUBLE DOOR CABINET		DS & Y GATE VALVE OR INDICATING BUTTERFLY VALVE
	UPRIGHT SPRINKLER		CHECK VALVE
	PENDENT SPRINKLER		PUMP
	UPRIGHT & PENDENT SPRINKLER		STRAINER
	SIDE WALL SPRINKLER		PRESSURE SWITCH
	ABC DRY POWDER 5KG		FLOW METER
	AFF FOAM EXTINGUISHER 9L		PRESSURE GAUGE
	FIRE BLANKET		GATE VALVE
	FM-200 NOZZLE		DS & Y GATE VALVE
	LANDING VALVE		TO ABOVE MANHOLE



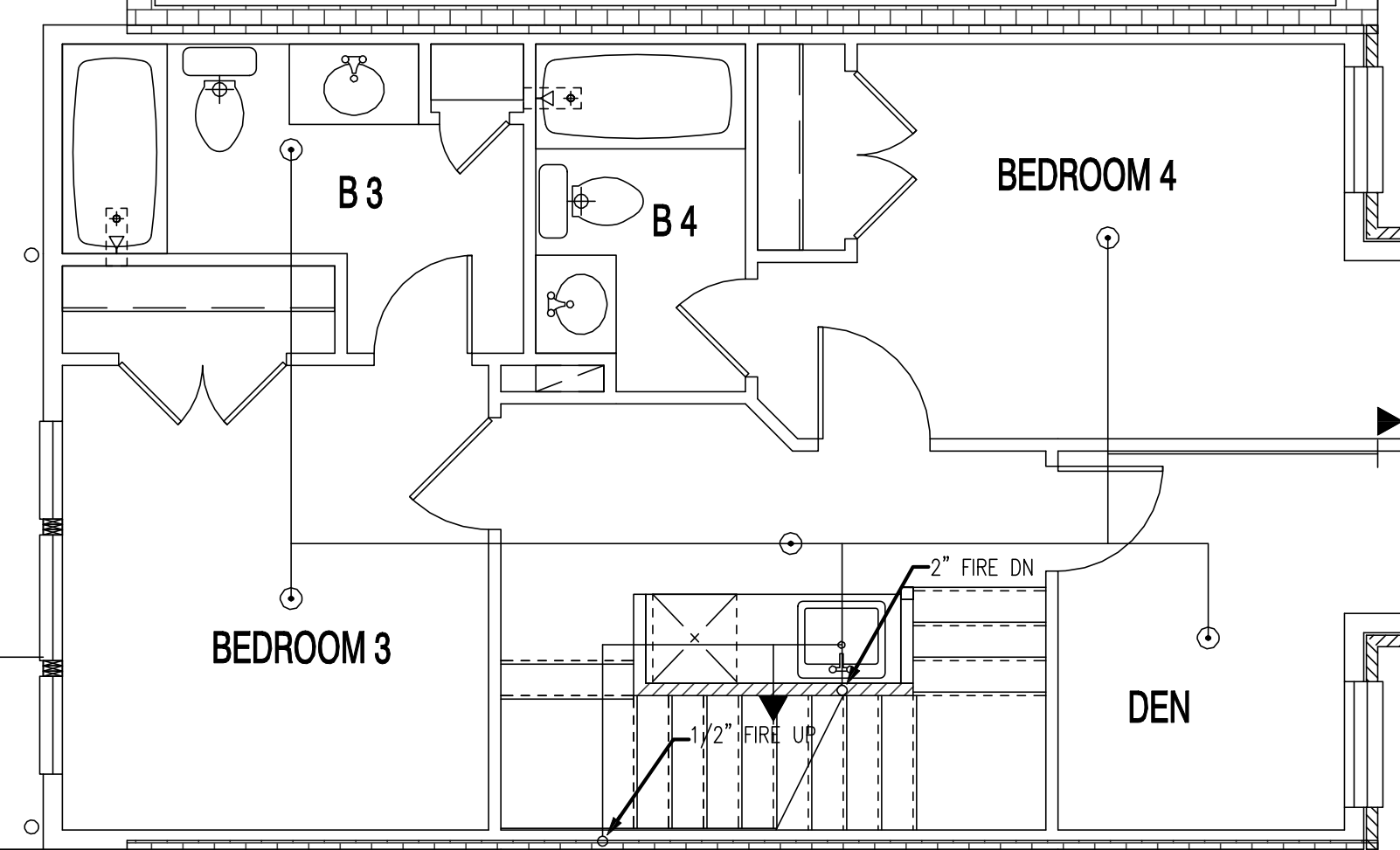
UNIT #2-ROOF DECK



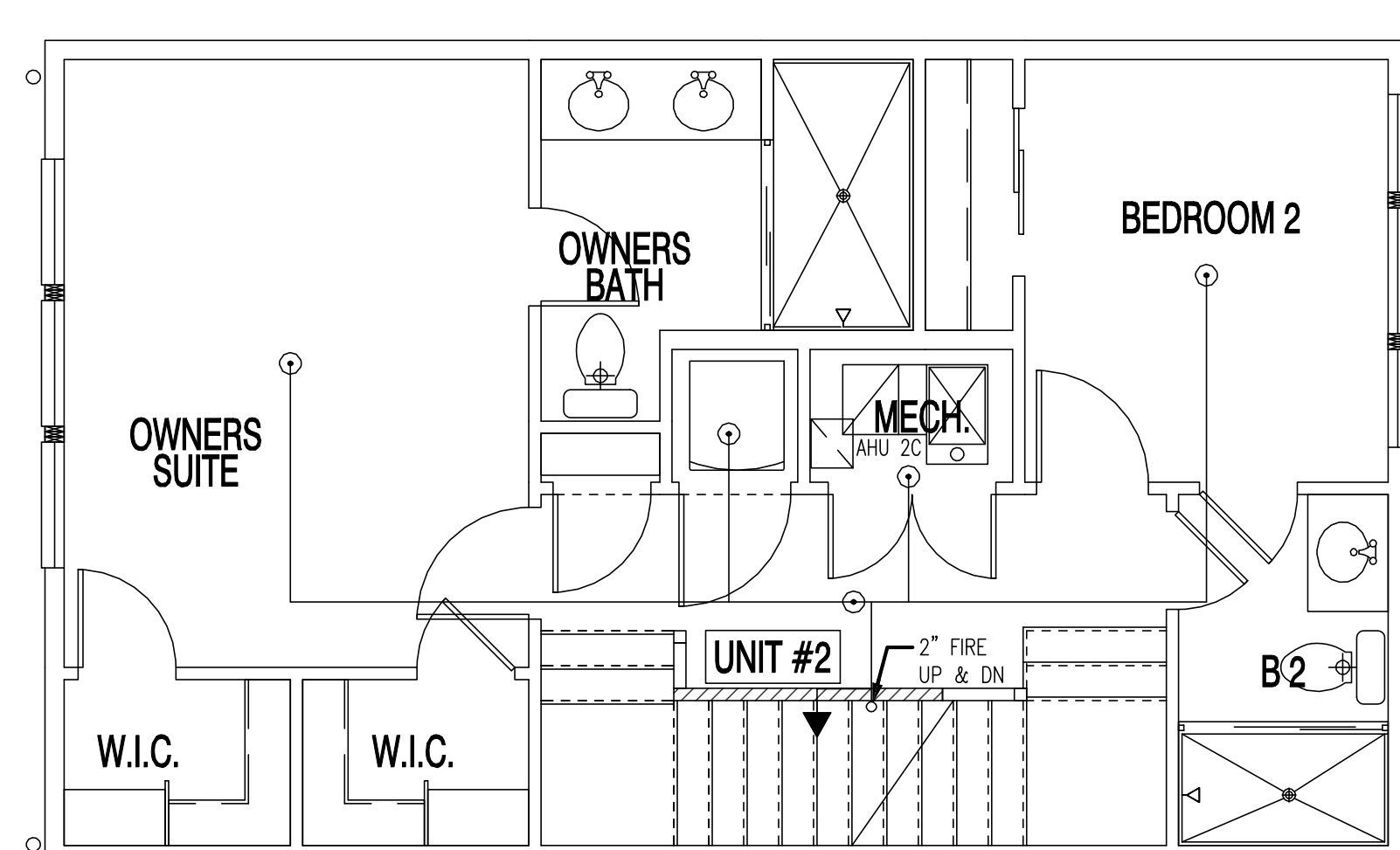
UNIT #1-ROOF DECK



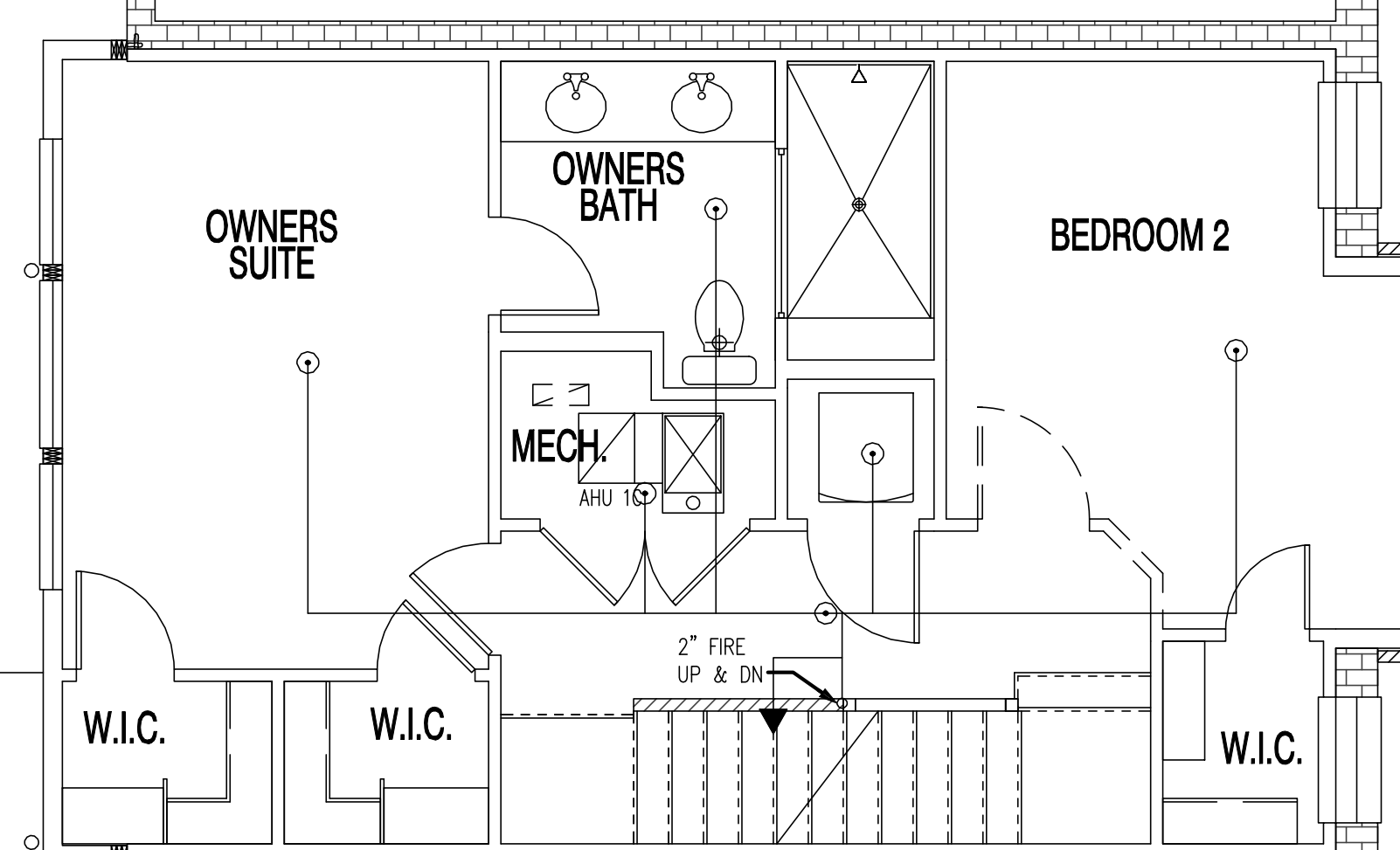
UNIT #2-THIRD FLOOR



UNIT #1-THIRD FLOOR



UNIT #2-SECOND FLOOR

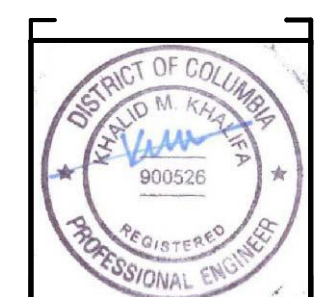


UNIT #1-SECOND FLOOR

A FIRE PROTECTION PLAN
SCALE: 1/4" = 1'-0"

22x34 Plotted at 1/4"=1'-0" - 11x17 Plotted at 1/8" = 1'-0"

1125 7th St NE - STONY CREEK HOMES
FIRE SUPPRESSION PLAN SECOND & THIRD FLOORS



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GENERAL:

- A. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS INCLUDING BUT NOT LIMITED TO 2012 IRC INTERNATIONAL BUILDING CODE
- B. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO EXAMINE THE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS AND SPECIFICATIONS, AND SHALL VERIFY ALL EXISTING CONDITIONS BEFORE COMMENCING WORK AND SHALL NOTIFY ARCHITECT AND/OR ENGINEER IF A CONDITION EXISTS WHICH PREVENTS THE CONTRACTOR FROM ACCOMPLISHING THE INTENT OF THE DRAWINGS.
- C. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL WORK AND MATERIALS TO ACCOMPLISH THE INTENT OF THE PLANS. PLANS INDICATE THE EXTENT, GENERAL CHARACTER AND LOCATION OF WORK DIAGRAMMATICALLY ONLY. WORK INDICATED BY HAVING MINOR DETAILS NOT SHOWN, SHALL BE FURNISHED COMPLETE, BY THIS CONTRACTOR, TO PERFORM THE FUNCTION INTENDED.
- D. ALL WORK AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH ALL CODES HAVING JURISDICTION AND TO BE STRICTLY OBSERVED.
- E. ALL WORK SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER AND/OR HIS DULY AUTHORIZED REPRESENTATIVE.
- F. CONTRACTOR SHALL NOT CORE DRILL CONCRETE SLABS FOR ANY SLEEVES, INSERTS OR FOR ANY REASON WITHOUT THE KNOWLEDGE AND WRITTEN CONSENT OF THE STRUCTURAL ENGINEER AND THE OWNER.
- G. ALL WORK AND EQUIPMENT SHALL BE THOROUGHLY CLEANED AND THE CONTRACTOR SHALL PROVIDE A NEW SET OF FILTERS IN ALL HVAC EQUIPMENT AT THE TIME OF SUBSTANTIAL COMPLETION PLUS ONE ADDITIONAL SET FOR ALL HVAC EQUIPMENTS, TO BE READY FOR THE USE OF THE OWNER BEFORE FINAL INSPECTION AND APPROVAL BY THE ARCHITECT AND/OR HIS REPRESENTATIVE.
- H. THE CONTRACTOR SHALL LAY OUT HIS WORK WITH THAT OF ALL OTHER TRADES AND BE RESPONSIBLE FOR ALL MEASUREMENTS, HE SHALL NOTIFY ARCHITECT AND/OR ENGINEER IF A CONDITION EXISTS WHICH PREVENTS WORK TO BE INSTALLED IN ACCORDANCE WITH THE INTENT OF THESE DRAWINGS.
- I. ALL MATERIAL SHALL BE NEW (UNLESS NOTED OTHERWISE ON THE DRAWINGS) AND SHALL BE OF FIRST QUALITY. THE QUALITY OF WORKMANSHIP SHALL BE THE FINEST AND HIGHEST OBTAINABLE IN EACH PARTICULAR TRADE. WORKMANSHIP SHALL BE ACCEPTABLE TO THE OWNER AND HIS DECISION AS TO ACCEPTABLE QUALITY IS FINAL. UNACCEPTABLE WORK SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
- J. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ASSURE THAT ALL SYSTEMS AND EQUIPMENT SUPPLIED SHALL BE COMPATIBLE WITH THE EXISTING BASE BUILDING SYSTEMS AND EQUIPMENT.
- K. IN AREAS WHERE IT IS NECESSARY TO CUT FLOORS, WALLS AND CEILINGS, THIS CONTRACTOR SHALL DO ALL CUTTING AND REPLACEMENT. BEFORE ANY CUTTING OR PATCHING, CONTRACTOR SHALL OBTAIN THE APPROVAL OF THE OWNER.
- L. ALL FIXTURES AND EQUIPMENT SHALL BE CONNECTED AND MADE READY FOR USE UNLESS OTHERWISE NOTED.
- M. PROVIDE FLUSH MOUNTED SUITABLE BACKBOX AT 48" AFF. TO CENTERLINE OF EACH THERMOSTAT.

MECHANICAL NOTES:

1. CONTRACTOR SHALL FIELD VERIFY ALL MEASUREMENTS AND LOCATIONS OF EQUIPMENT AND PRIOR TO ANY DUCTWORK FABRICATION CONTRACTOR SHALL SUBMIT FOR APPROVAL, SHOP DRAWINGS ON ALL NEW WORK AND EQUIPMENT PRIOR TO FABRICATION AND INSTALLATION, INCLUDING EQUIPMENTS SPECS AND DUCTWORK LAYOUT AND SOUND ISOLATION DETAILS.
2. PROPER MOUNTINGS FOR ALL EQUIPMENT SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND SHALL BE INSTALLED BY THIS CONTRACTOR. PROVIDE APPROVED TYPE VIBRATION DAMPENING MEDIA WHEREVER CALLED FOR BY THE MANUFACTURER BETWEEN EQUIPMENT AND THE FLOOR OR CEILING. ISOLATORS SHALL BE MASON INDUSTRIES OR APPROVED EQUAL AND/OR AS NOTED ON DETAILS. SEE VIBRATION ISOLATION SCHEDULE.
3. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO INSTALL THE HEATING, VENTILATION AND AIR CONDITIONING SYSTEM SO AS TO INSURE QUIET OPERATION. NO VIBRATION OR SOUND SHALL BE TRANSMITTED TO THE BUILDING STRUCTURE OR OCCUPIED AREAS. THE DECISION OF THE ENGINEER AS TO QUIETNESS OF THE SYSTEM AND EQUIPMENT SHALL BE FINAL. IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO CORRECT OR REPLACE ANY NOISY SYSTEMS OR EQUIPMENT AS REQUIRED.
4. PHYSICAL DIMENSIONS AS WELL AS COOLING, HEATING CAPACITIES AND ELECTRICAL CHARACTERISTICS OF SUBMITTED UNITS SHALL MATCH THAT OF SPECIFIED EQUIPMENT. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL COSTS DUE TO CHANGES RELATED TO SUBSTITUTED EQUIPMENT.
5. COORDINATE WITH ELECTRICAL CONTRACTOR TO INSURE N.E.C. REQUIRED CLEARANCES FROM DUCTWORK, PIPING, ETC ARE MAINTAINED AROUND ELECTRICAL EQUIPMENT (PANEL BOARDS, SWITCHBOARDS, DISCONNECTS, ETC./)
6. CONTRACTOR SHALL REFER TO THE ELECTRICAL DRAWINGS FOR THE PROPER ELECTRICAL CHARACTERISTICS FOR ALL MOTORS, HEATERS, AND ALL OTHER ELECTRICAL DEVICES FURNISHED BY THE CONTRACTOR. IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR ALL REQUIRED ELECTRICAL CONNECTIONS AND CIRCUITS, ETC. REQUIRED FOR MECHANICAL EQUIPMENT, HEATERS, CONTROLS, ETC.
7. CONTRACTOR SHALL SUPPLY AND INSTALL ALL NECESSARY DUCT ACCESSORIES SUCH AS VOLUME DAMPERS, FIRE DAMPERS, TURNING VANES, DUCT HARDWARE, DUCT ACCESS DOORS, FLEXIBLE CONNECTIONS, AND CEILING ACCESS DOORS. THE DUCTWORK SHALL COMPLY WITH SMACNA DUCT CONSTRUCTION STANDARDS. COORDINATE INSTALLATION OF DUCT ACCESSORIES WITH OTHER WORK.
8. PROVIDE FLEXIBLE DUCT CONNECTIONS WHEREVER DUCTWORK CONNECTIONS TO VIBRATION ISOLATED EQUIPMENT. CONSTRUCT FLEXIBLE CONNECTIONS OF NEOPRENE-COATED FLAMEPROOF FABRIC CRIMPED INTO DUCT FLANGES FOR ATTACHMENT TO DUCT AND EQUIPMENT. MAKE AIRTIGHT JOINT. PROVIDE ADEQUATE JOINT FLEXIBILITY TO ALLOW FOR THERMAL, AXIAL, TRANSVERSE, AND TORSIONAL MOVEMENT, AND ALSO CAPABLE OF ABSORBING VIBRATIONS OF CONNECTED EQUIPMENT.
9. RECTANGULAR DUCTWORK: ALL DUCTWORK SHALL CONFORM TO THE RECOMMENDED CONSTRUCTION FOR LOW AND MEDIUM PRESSURE DUCTWORK AS APPROVED BY THE SHEETMETAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION. SEAL CLASS 'C' FOR ALL LOW PRESSURE DUCTWORK; SEAL CLASS 'A' FOR HIGH PRESSURE DUCTWORK. ALL DUCTS SHALL BE MADE OF THE BEST GRADE GALVANIZED SHEET STEEL. THE GAUGE OF THE SHEET STEEL AND DUCT SUPPORTS SHALL CONFORM TO SMACNA STANDARDS. EXPOSED ROUND DUCT SHALL BE SPIRAL LOCKSEAM OR LONGITUDINAL WELDED SEAM AS MANUFACTURED BY UNITED MCGILL SHEET METAL COMPANY. MODELS UNISEAL, UNICDAT, OR LONGITUDINAL SEAM.
10. FLEXIBLE DUCT: SHALL BE SUPPLIED AND INSTALLED FOR CONNECTIONS BETWEEN LOW PRESSURE MAIN AIR SUPPLY DUCTS AND CEILING DIFFUSERS AND LINEAR DIFFUSERS. FLEXIBLE DUCT TO BE SMOOTH INTERIOR WITH NO SPIRAL SEAM FOR LOW PRESSURE DROP. DUCT SHALL MEET NFPA 90A AND 90B AND UL-181 CLASS 1 AIR DUCT AND SHALL WITHSTAND TEMPERATURES OF 0 DEGREES F TO 250 DEGREES F AND PRESSURE OF 6" WG WITHOUT LEAKAGE. DUCT SHALL BE GENFLEX WITH 1" INSULATION AND VAPOR BARRIER TYPE IMPR OR APPROVED EQUAL.
11. FLEXIBLE DUCT: PROVIDE INSULATED UL LISTED CLASS 1 DUCT COMPLYING WITH NFPA 90A, FLEX MASTER, THERMAFLEX, WIRE MOLD OR CLEVAFLEX.
12. AIR DEVICES

- A. PROVIDE TITUS AIR DEVICES AS INDICATED ON PLANS AND SCHEDULED EQUAL TO THE FOLLOWING TITUS MODEL NUMBERS WITH #25 WHITE FINISH. NO SUBSTITUTIONS SHALL BE CONSIDERED OR PERMITTED.
- B. PROVIDE REGISTERS WITH DAMPERS.
- C. SUPPORT ALL AIR DEVICES INDEPENDENT OF CEILING GRID SYSTEM.
- D. ADJUST ALL PATTERN CONTROLLERS OR INSTALL BLOW CLIPS TO PROVIDE DISCHARGE PATTERN INDICATED.
- E. PROVIDE AIR DEVICES AS FOLLOWS:

DESIGN	DEVICE	TITUS MODEL	FRAME TYPE
CR	SUPPLY REGISTER	272FL	---
ER	EXHAUST REGISTER	350RL	---
13.	INSULATE (D.A.) AND SUPPLY AIR DUCTWORK WITH GLASS FIBER 2" THICK, 1.5 LB./FT ³ DENSITY DUCT WRAP, MIN R-6 FACED WITH A REINFORCED ALUMINUM FOIL KRAFT WITH VAPOR BARRIER FACING AND A 2" TAPING FLANGE. CERTAINTED CUT WRAP OR EQUIVALENT. EXTERIOR DUCT WORK SHALL BE LINED WITH 2-1/2" THICK DUCT LINER BOARD MIN R-8. SUPPLY DUCTS LOCATED IN ATTICS SHALL BE INSULATED TO A MINIMUM OF R-8. ALL OTHER DUCTS SHALL BE INSULATED 0 A MINIMUM OF R-6.		
14.	CONDENSATE DRAIN PIPING: SCHEDULE 40, CPVC PIPE AND FITTINGS ASTM F 441/F 441M, WITH PLAIN ENDS FOR SOLVENT-CEMENTED JOINTS WITH ASTM F 438, SOCKET-TYPE FITTINGS, PITCH AT MINIMUM 1 PERCENT SLOPE. PROVIDE MINIMUM 2 INCH DEEP TRAP AT EACH A/C UNIT. INSULATE WITH 1/2 INCH THICK INSULATION.		
15.	DUCTWORK EXPOSED ON ROOF SHALL BE ALUMINUM CONSTRUCTION W/ WATER PROOF SEAMS & JOINTS.		
16.	PROVIDE AUTOMATIC TEMPERATURE CONTROL SYSTEMS TO AFFECT COMPLETE OPERATING SYSTEMS, PROGRAMMABLE THERMOSTAT. MOUNT NEAR THERMOSTATS AT 60" AFF. VIF LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION. THERMOSTATS LOCATED IN ACCESSIBLE UNITS SHALL BE LOCATED AT A MAX 48" AFF PER ANSI 117.1, 308. OPERATING TEMPS 32F TO 104F. THERMOSTATIC CONTROLS HAVE A 5 DEGREE F DEADBAND HEATING 1, 2 AND 3 STAGES. COOLING 1 AND 2 STAGES. HEAT PUMP WITH AUXILIARY AND EMERGENCY HEAT.		

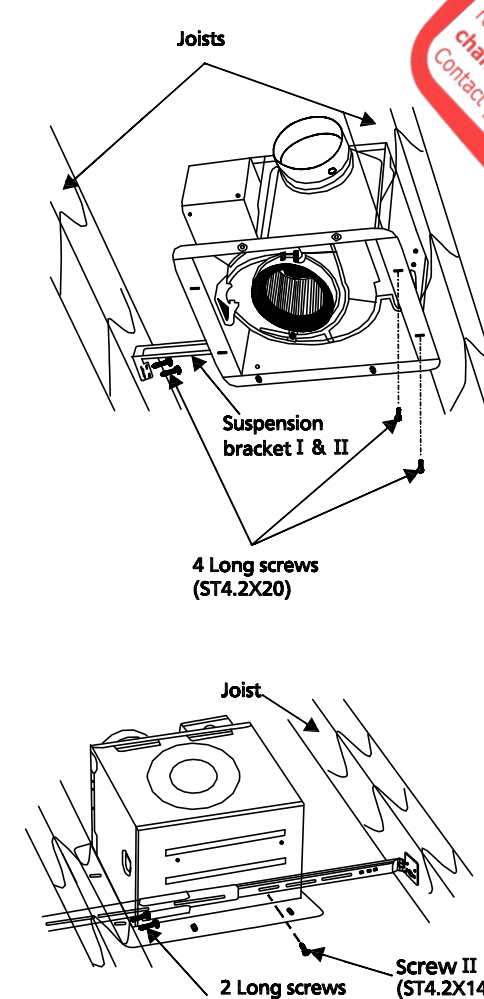
17. PROVIDE REQUIRED ATC POWER CONNECTIONS TO CIRCUIT BREAKER PANELS.
18. DEMONSTRATE SYSTEM OPERATION TO OWNER.
19. PROVIDE AUTO/ GRAVITY DAMPERS INSTALL ON ALL INTAKES/ EXHAUSTS.
20. PROVIDE 18 GAUGE GALVANIZED SHEET METAL SLEEVES FOR ALL PIPE AND DUCT PENETRATIONS THROUGH CONCRETE FLOORS AND MASONRY WALLS. PACK VOID SPACE WITH FIRE PROOF INSULATION AND /OR NOTED IN DETAILS.
21. OBTAIN AND PAY FOR ALL PERMITS REQUIRED FOR THE WORK.
22. PERFORM THE WORK IN ACCORDANCE WITH ALL APPLICABLE LOCAL & NATIONAL CODES.
23. DUCTWORK DIMENSION SHOWN ON DRAWINGS ARE SHEETMETAL DIMENSIONS. NET FREE AREA SHALL BE SHEETMETAL DIMENSIONS LESS THE LINEAR THICKNESS ON LINED DUCTWORK.
24. BALANCE DAMPERS: SHALL BE INSTALLED WHERE INDICATED AND/OR REQUIRED FOR PROPER BALANCING OF SYSTEM.
25. INSTALL ALL DUCTWORK ABOVE CEILING AND HOLD TIGHT TO UNDERSIDE OF STRUCTURE ABOVE UNLESS OTHERWISE INDICATED. SPIRAL DUCT SHALL BE INSTALLED WITH CONCENTRIC.
26. ALL RETURN AIR DUCT OPENINGS ABOVE CEILING SHALL BE COVERED WITH 1/2" MESH SCREEN.
27. CHANGES TO DUCT DUE TO FIELD CONDITIONS SHALL BE MADE ONLY IF THE DUCT SIZE FREE AREA IS MAINTAINED AND SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL.
28. FLEXIBLE CONNECTORS:

- A. PROVIDE FLEXIBLE CONNECTORS AT THE INLET AND OUTLET CONNECTION FOR EACH FAN AND AIR HANDLING UNIT.
 - B. EACH FLEXIBLE CONNECTOR SHALL ALLOW 1" OF FREE MOVEMENT AND SHALL BE COMPLETELY AIR TIGHT.
 - C. PROVIDE NEOPRENE COATED GLASS FABRIC MATERIAL, MINIMUM 30 OZ. PER SQUARE YARD.
 - D. CONTRACTOR SHALL BRACE DUCTWORK (AS REQUIRED) AT ALL FLEXIBLE CONNECTORS TO ENSURE THAT DUCTWORK IS KEPT IN ALIGNMENT.
29. TURNING VANES: PROVIDE SINGLE THICKNESS TURNING VANES OF GALVANIZED STEEL IN ALL MITERED ELBOWS 30° OR GREATER.
 30. LEAKAGE:
 - A. ALL DUCT JOINTS SHALL BE SEALED WITH HARD CAST 60L. SPIRAL DUCTWORK JOINTS AND FITTINGS SHALL BE SEALED WITH UNITED MCGILL SEALER.
 - B. TESTING IS PERFORMED BY USING TEST EQUIPMENT TO VERIFY HOW MUCH LEAKAGE EXISTS IN THE DUCTWORK. THIS DUCT LEAKAGE SHALL BE VERIFIED BY EITHER OF THE FOLLOWING:
 - 1-A POST CONSTRUCTION TEST: TOTAL LEAKAGE SHALL BE LESS THAN OR EQUAL TO 8 CFM PER 100 SQUARE FEET OF CONDITIONED FLOOR AREA WHEN TESTED AT 25PA DIFFERENTIAL PRESSURE.
 - 2-ROUGH IN TEST: TOTAL LEAKAGE SHALL BE LESS THAN OR EQUAL TO 4 CFM PER 100 SQUARE FEET OF CONDITIONED FLOOR AREA WHEN TESTED AT 25PA DIFFERENTIAL PRESSURE.
 - C. PERFORM ALL TESTING AFTER THE SEALS HAVE CURED COMPLETELY AND BEFORE COVERING WITH INSULATION OR CONCEALING IN MASONRY.
 - D. AIR HANDLERS SHALL HAVE A MANUFACTURER'S DESIGNATION FOR AIR LEAKAGE OF NO MORE THAN 2 PERCENT OF THE DESIGN AIR FLOW RATE WHEN TESTED IN ACCORDANCE WITH ASHRAE 193.
 31. SCOPE:

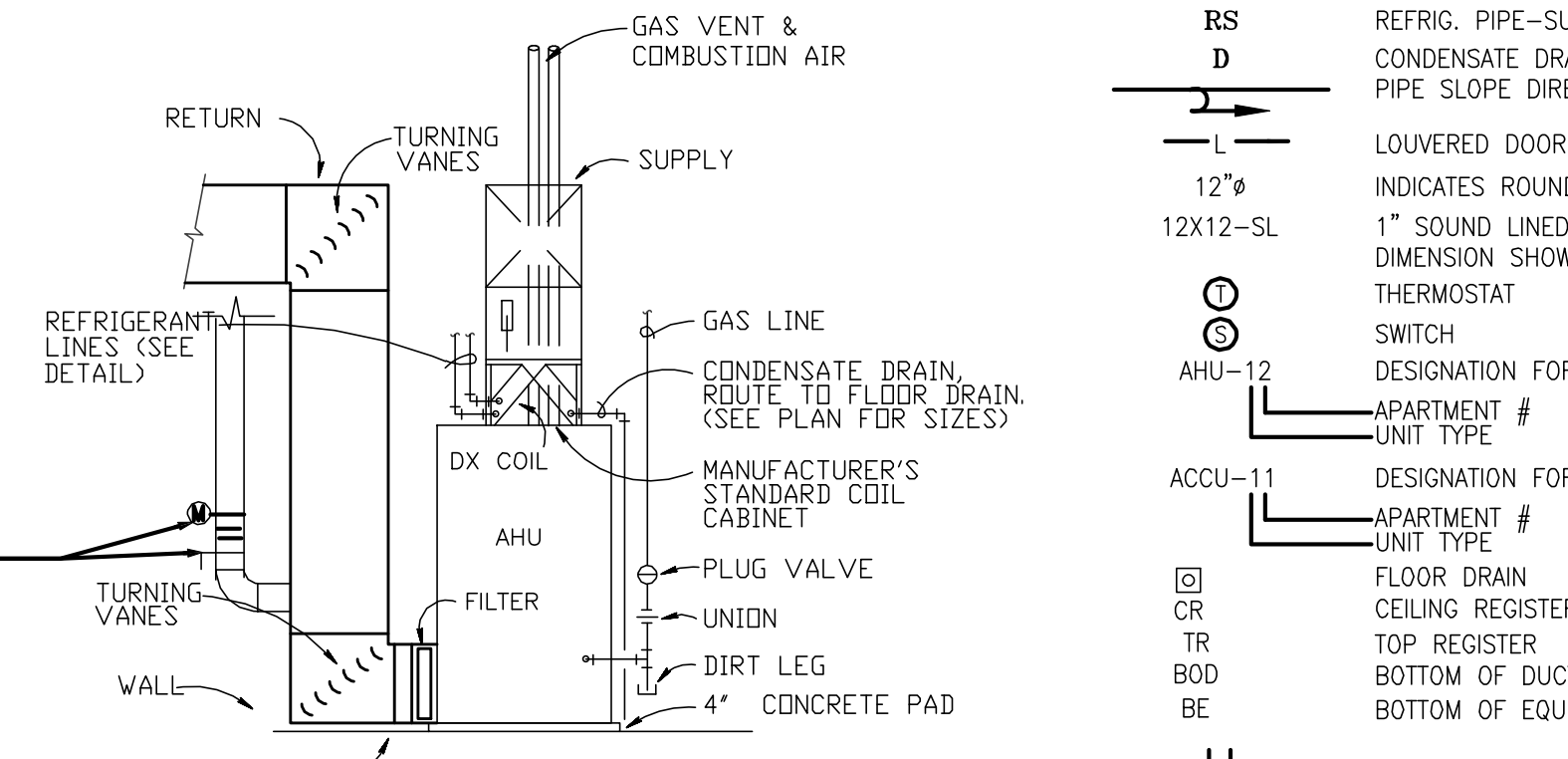
- A. AN INDEPENDENT CONTRACTOR WITH NEBB OR AABC CERTIFICATION SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, SERVICES AND PERFORM ALL OPERATIONS REQUIRED FOR COMPLETE BALANCING OF THE AIR SYSTEMS AND RELATED WORK AS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN.
- B. BALANCING SHALL NOT BE PERFORMED UNTIL ALL MECHANICAL EQUIPMENT IS PROPERLY INSTALLED AND IS 100% OPERATIONAL, ALL TEMPERATURE CONTROLS ARE INSTALLED AND CALIBRATED AND ALL SYSTEMS ARE CLEANED.
- C. IT IS THE INTENT OF THIS SPECIFICATION TO INSURE THAT THE ENTIRE PROJECT IS SUBSTANTIALLY COMPLETE SO THAT ALL COMPONENTS OF ALL MECHANICAL SYSTEMS CAN BE PUT INTO NORMAL OPERATION WITH ALL WINDOWS AND DOORS CLOSED AND WORK IN A PIECEMEAL FASHION.

32. QUALITY ASSURANCE: SUBMIT TO OWNER THREE (3) COPIES OF BALANCING AND TESTING RECORDS OF TESTS SPECIFIED HEREIN SHOWING THE AIR DISTRIBUTION SYSTEMS HAVE BEEN BALANCED AND ARE DELIVERING SPECIFIED QUANTITIES.
33. EACH PIECE OF EQUIPMENT SHALL BE IDENTIFIED AS TO LOCATION, SERVICE, MANUFACTURER AND MODEL NUMBER. THIS INFORMATION SHALL BE RECORDED AND INCLUDED IN THE FINAL BALANCE REPORT.
34. AFTER ADJUSTMENTS ARE COMPLETE, THE AIR CONDITIONING, HEATING, AND VENTILATING SYSTEMS SHALL BE TESTED, AND THE FOLLOWING INFORMATION RECORDED AND INCLUDED IN THE FINAL BALANCE REPORT:

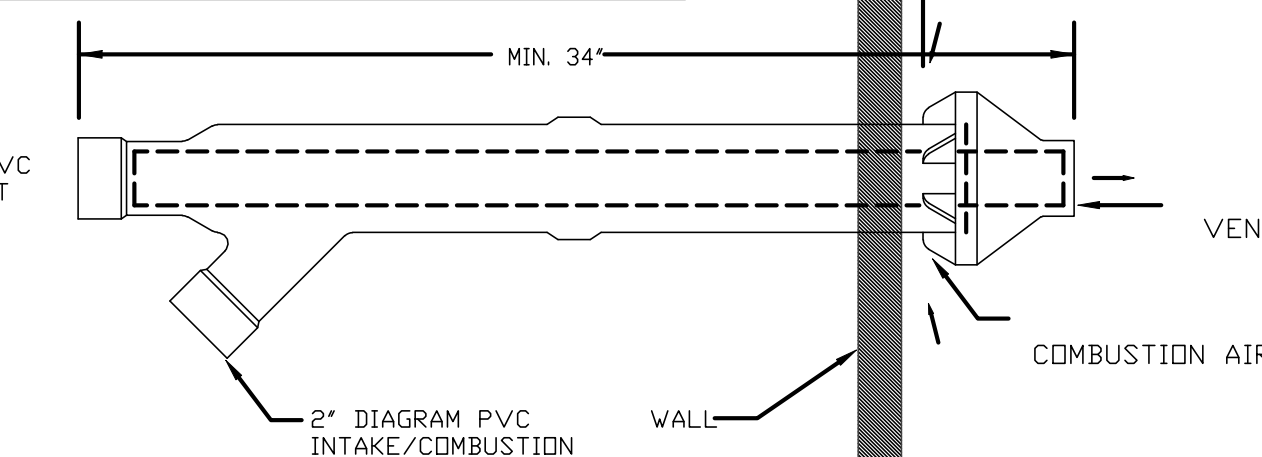
- A. AIR DEVICES:
 - (1) EACH AIR DEVICE SHALL BE IDENTIFIED AS TO LOCATION AND SERVICE.
 - (2) SIZE, TYPE AND MANUFACTURER OF AIR DEVICES LISTED.
 - (3) REQUIRED CFM AND TEST RESULTANT CFM EACH AIR DEVICE.
35. AFTER THE SYSTEMS HAVE BEEN BALANCED AND ALL ADJUSTMENTS COMPLETED, RUN A SIX HOUR TEST ON BOTH HEATING AND COOLING CYCLE TO DETERMINE IF SYSTEM IS RESPONDING TO TEMPERATURE CONTROLS. THERMOSTAT SETTING, THERMOSTAT TEMPERATURE READING, AND AN INDEPENDENT TEMPERATURE MEASUREMENT AT THE THERMOSTAT SHALL BE RECORDED AT EACH THERMOSTAT.
36. BUILDING CAVITIES SHALL NOT USED AS DUCTS OR PLENUMS.
37. DUCT LINING SHALL BE 1" THICK SEMI-RIGID, COATED, GLASS FIBER BONDED BOARD, 3 LB. DENSITY. WHERE DUCTWORK ACOUSTICALLY LINED, ADDITIONAL INSULATION IS NOT REQUIRED ON THE EXTERIOR SURFACE. CERTAINTED UL TRALITE DUCT LINER OR EQUIVALENT.
38. OBTAIN ALL PERMITS AND UPON COMPLETION OF WORK, PRESENT THE OWNER WITH A CERTIFICATE OF FINAL INSPECTION FROM LOCAL AUTHORITY.
39. REFRIGERANT PIPING SHALL BE INSULATED WITH 1" FOAMED PLASTIC OF CLOSED CELL STRUCTURE, 'K' VALUE OF < 0.27 MAXIMUM AT 75 F. MAXIMUM WATER VAPOR TRANSMISSION RATING OF 0.20 PERM. APPLY WITH EDGES TIGHTLY BUTTED. SEAL JOINTS WITH VAPOR BARRIER TAPE OR SEALER. WHERE INSULATION IS LOCATED OUTDOOR, THE INSULATION SHALL BE PROTECTED FROM WEATHER AT ALL TIMES AND BE APPLIED DURING TIMES WHEN WEATHER IS CLEAR. PROTECT UNFINISHED INSULATION BY COVERING WITH WEATHERPROOF MATERIAL. INSULATION SHALL BE CONTINUOUS THROUGH THE WALLS. TO ROOF EQUIPMENT SHALL BE NEATLY SUSPENDED AND SUPPORTED ON UNTRUST OR WITH OTHER SUPPORTS TO BUILDING STRUCTURE AND SHALL NOT BE ATTACHED TO ROOF OR SEAL ON ROOF V/O INTERMEDIATE V/O OR METAL BLOCKING AND A SECONDARY ROOF MEMBRANE PROTECTIVE SHEET SUPPLIED BY ROOF MEMBRANE MANUFACTURER. INSULATION SHALL BE AP ARMAFLEX WITH SELF-SEALING JOINT. PROVIDE ULTRAVIOLET RESISTANT FINISH ON EXTERIOR ARMAFLEX INSULATION OR APPROVED EQUAL. REFRIGERANT SUCTION LINE INSULATE WITH 3/4 INCH THICK ARMAFLEX MATERIAL.
40. ALL MECH. VENT. SYSTEM FANS NOT PART OF TESTED & LISTED HVAC EQUIPMENT SHALL MEET EFFICACY AND AIR FLOW



CEILING FAN DETAIL
NOT TO SCALE



GAS-FIRED AIR HANDLING UNIT DETAIL
N.T.S.



HORIZONTAL VENT TERMINAL/COMBUSTION AIR INLET
NOT TO SCALE

BUILDING THERMAL ENVELOPE

TESTING THE BUILDING OR DWELLING UNIT SHALL BE TESTED AND VERIFIED AS HAVING AN AIR LEAKAGE RATE OF LESS THAN OR EQUAL TO 3 AIR CHANGES PER HOUR AT A PRESSURE OF 0.2 INCHES W.G. (50 PA). TESTING SHALL BE CONDUCTED WITH A BLOWER DOOR AT A PRESSURE OF 0.2 INCHES W.G. (50 PA). WHERE REQUIRED BY THE CODE OFFICIAL, TESTING SHALL BE CONDUCTED BY AN APPROVED THIRD PARTY. A WRITTEN REPORT OF THE RESULTS OF THE TEST SHALL BE SIGNED BY THE PARTY CONDUCTING THE TEST AND PROVIDED TO THE CODE OFFICIAL. TESTING SHALL BE CONDUCTED AT ANY TIME AFTER CREATION OF ALL PENETRATIONS OF THE BUILDING THERMAL ENVELOPE. TESTING SHALL BE CONDUCTED IN ACCORDANCE WITH A METHOD APPROVED BY THE CODE OFFICIAL INCLUDING, BUT NOT LIMITED TO, AN APPROVED SAMPLING PROTOCOL.

DURING TESTING:

1. EXTERIOR WINDOWS AND DOORS, FIREPLACE AND STOVE DOORS SHALL BE CLOSED, BUT NOT SEALED, BEYOND THE INTENDED WEATHERSTRIPPING OR OTHER INFILTRATION CONTROL MEASURES.
2. DAMPERS INCLUDING EXHAUST, INTAKE, MAKEUP AIR, BACKDRAFT AND FLUE DAMPERS SHALL BE CLOSED, BUT NOT SEALED BEYOND INTENDED INFILTRATION CONTROL MEASURES.
3. INTERIOR DOORS, IF INSTALLED AT THE TIME OF THE TEST, SHALL BE OPEN.
4. EXTERIOR DOORS FOR CONTINUOUS VENTILATION SYSTEMS AND HEAT RECOVERY VENTILATORS SHALL BE CLOSED AND SEALED.
5. HEATING AND COOLING SYSTEMS, IF INSTALLED AT THE TIME OF THE TEST, SHALL BE TURNED OFF AND
6. SUPPLY AND RETURN REGISTERS, IF INSTALLED AT THE TIME OF THE TEST, SHALL BE FULLY OPEN.

FAN SCHEDULE

NO.	AREA SERVED	FAN TYPE	CFM/WATT @0.1" SP	S.P. INCH	MAX. RPM	DRIVE	MOTOR		CONTROL	BASIS OF DESIGN	
							HP-(WATTS)	VOLTS/PH			
F-1	TOILET ROOMS	CEILING	3.8	80	0.25	1000	DIRECT	31	120V/1Ø	WALL SWITCH	FV081VFL5

NOTES: 1. ALL APT. TOILET EXHAUST FANS SHALL BE FURNISHED WITH LIGHT, RADIATION DAMPER & FACTORY INSTALLED THREE SPEED SWITCH FOR BALANCING.



Permit No. 81805207

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SYMBOL LIST

[Symbol]	DUCT UNDER POSITIVE PRESSURE	DOEE SE-SW Review - Charles Edwards	04-18-2018
[Symbol]	DUCT UNDER NEGATIVE PRESSURE	Mechanical Review - Wayne Ferguson	04-18-2018
[Symbol]	SQUARE ELBOW WITH TURNING VANES	Plumbing Review - Wayne Ferguson	04-18-2018
[Symbol]	ROUND TO RECTANGULAR TRANSITION	Structural Review - Alina Mahmood	04-18-2018
[Symbol]	NEW DUCTWORK	Structural Review - Bihon Debesai	04-18-2018
[Symbol]	FLEXIBLE CONNECTION	Energy Review - Ashley Delgado	04-18-2018
[Symbol]	MOTORIZED DAMPER	DDOT Review - Shaun Baskerville	04-18-2018
[Symbol]	FIRE DAMPER		
[Symbol]	FIRE / SMOKE COMBINATION DAMPER		
[Symbol]	BALANCING DAMPER		
[Symbol]	BACKDRAFT DAMPER		
[Symbol]	DUCT INCLINED RISE IN DIRECTION OF FLOW		
[Symbol]	DUCT INCLINED DROP IN DIRECTION OF FLOW		
[Symbol]	REFRIG. PIPE-LIQUIDE		
[Symbol]	REFRIG. PIPE-SUCTION		
[Symbol]	CONDENSATE DRAIN		
[Symbol]	PIPE SLOPE DIRECTION		
[Symbol]	LOUVERED DOOR		
[Symbol]	INDICATES ROUND DUCT DIA. (INCHES)		
[Symbol]	1" SOUND LINED DUCT - SHEET METAL		
[Symbol]	DIMENSION SHOWN		
[Symbol]	THERMOSTAT		
[Symbol]	SWITCH		
[Symbol]	DESIGNATION FOR AIR HANDLING UNIT		
[Symbol]	UNIT TYPE		
[Symbol]	DESIGNATION FOR AIR COOLED CONDENSING UNIT		
[Symbol]	UNIT TYPE		
[Symbol]	FLOOR DRAIN		
[Symbol]	CEILING REGISTER		
[Symbol]	TOP REGISTER		
[Symbol]	BOTTOM OF DUCT ELEVATION		
[Symbol]	BOTTOM OF EQUIPMENT ELEVATION		

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Website: www.dcarchitect.com

1125 7th St NE - STONY CREEK HOMES
GENERAL NOTES - MECHANICAL
22x34 Plotted at 1/4"=1'-0" - 11x17 Plotted at 1/8" = 1'-0"

DISTRICT OF COLUMBIA
APPROVED BY
900526
PROFESSIONAL ENGINEER

DRAWN BY:
MCR
DATE: 03/10/17
REV No. DATE
003 02/06/18

01.01.17

SHEET No.
M.00

**USPLIT SYSTEM HEATPUMP
AC UNIT-1A,1B, &2A,2B,2D**

INDOOR UNIT-MITSUBISHI HORIZONTAL WALL MOUNTED DUCT-FREE AIR HANDLING UNIT MODEL *MSZ-FH06NA* 6,000 BTUH TOTAL COOLING CAPACITY @ ARI STANDARDS. PROVIDE W/ COND PUMP.

ELECTRIC CHARACTERISTICS:
1- MCA = 1
2- 240 VOLTS, 1 PHASE

OUTDOOR UNIT (ACCU-1A, 1B&2A, 2B 2D)
MITSUBISHI MODEL *MXZ-2C24NAHZ* TO HAVE TOTAL CAPACITY OF 23.6 MBH WITH 40° SST MIN SEER 19

ELECTRIC CHARACTERISTICS:
1- COMPRESSOR 1 @ 20 RLA, 2 @ 15 RLA APPROVED EQUAL
2- FAN 1 @ 1/5 HP
3- 240 VOLTS, 1 PHASE
4- MCA 30

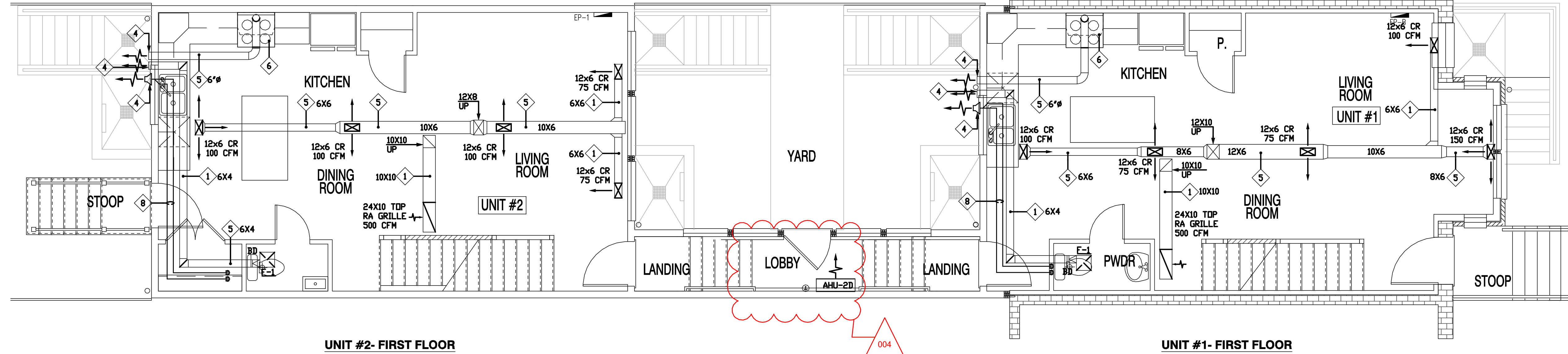
GOVERNMENT OF THE DISTRICT OF COLUMBIA
PERMIT OPERATIONS DIVISION
PLANS ROOM 450
Permit No. 81805207 Date 03/10/17
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DOE SE-SW Review - Charles Edwards - 04-18-2017
Mechanical Review - Wayne Ferguson - 04-18-2017
Plumbing Review - Wayne Ferguson - 04-18-2017
Electrical Review - Alina Mahmood - 04-18-2017
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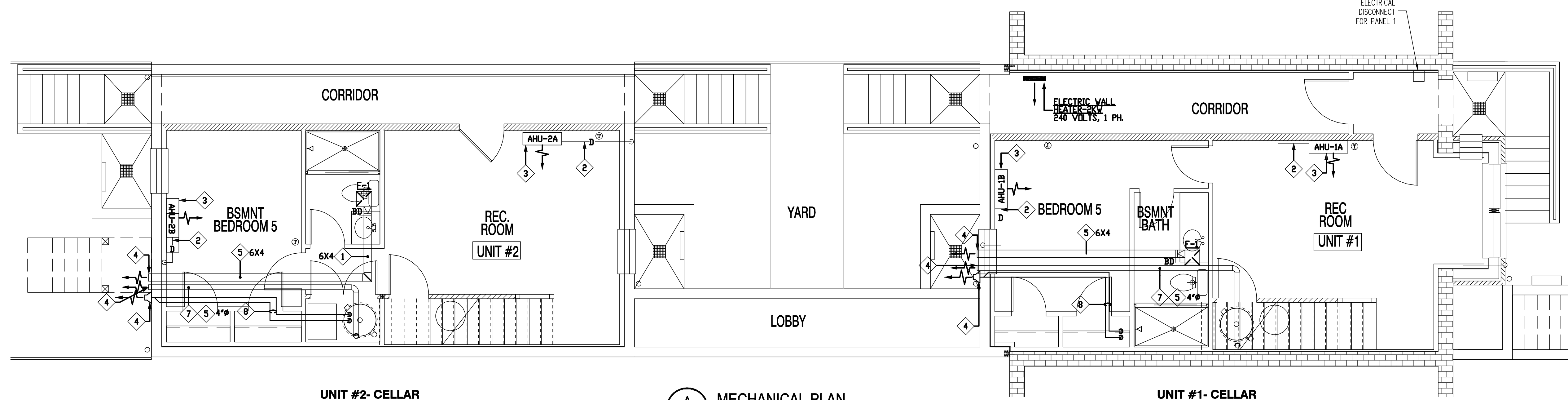
MECHANICAL ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR
A.H.U.	AIR HANDLING UNIT
ACC	AIR-COOLED CONDENSING UNIT
AD	ACCESS DOOR
A.P.	ACCESS PANEL
A.P.D.	AIR PRESSURE DROP
B.H.P.	BRAKE HORSEPOWER
B.T.U.'S	BRITISH THERMAL UNITS
B.T.U.H.	BRITISH THERMAL UNITS PER HOUR
BR	BOTTOM REGISTER
C	CENTER
C.D.	CEILING DIFFUSER
CR	CEILING REGISTER
C.F.M.	CUBIC FEET PER MINUTE
DIA.	DIAMETER
D.B.	DRY BULB
DX	DX COIL
E.A.	EXHAUST AIR
F	FAN
C.G.	CEILING GRILLE
E.A.T.	ENTERING AIR TEMPERATURE
E.B.H.	ELECTRIC BASEBOARD HEATER
E.S.P.	EXTERNAL STATIC PRESSURE
FBC	FILTER BACK GRILLE
F.V.	FACE VELOCITY
L.A.T.	LEAVING AIR TEMPERATURE
MAX.	MAXIMUM
M.B.H.	ONE THOUSAND B.T.U.'S PER HOUR
MIN.	MINIMUM
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
NK	NECK
O.A.	OUTSIDE AIR
R.A.	RETURN AIR
REWH	RECESSED ELECTIC WALL HEATER
R.P.M.	REVOLUTIONS PER MINUTE
RTU	ROOFTOP UNIT
S.A.	SUPPLY AIR
S.P.	STATIC PRESSURE
T.R.G.	TRANSFER AIR GRILLE
TR	TOP REGISTER
TYP.	TYPICAL
V/P/H	VOLTS/PHASE/HERTZ
W.B.	WET BULB



UNIT #2- FIRST FLOOR

UNIT #1- FIRST FLOOR



UNIT #2- CELLAR

UNIT #1- CELLAR

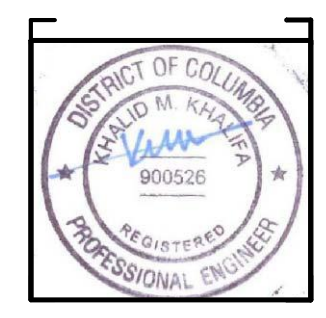
A MECHANICAL PLAN
SCALE: 1/4" = 1'-0"

DRAWING NOTES

1. RUN DUCTWORK BETWEEN TRUSSES.
2. 3/4" CONDENSATE DRAIN SPILL OVER FLOOR DRAIN.
3. INSTALL, SIZE, AND ROUTE REFRIGERATION PIPING AS RECOMMENDED BY SPLIT SYSTEM MANUFACTURER.
4. WALL CAP MATCHING DUCT SIZE.
5. RUN DUCTWORK THROUGH TRUSSES.
6. RANGE HOOD, EXHAUST RATES, SHALL BE AT A RATE OF 100 CFM INTERMITTENT OR 25 CFM CONTINUOUS
7. DRYER EXHAUST DUCTWORK ROUTING AND CONFIGURATION SHALL MEET DRYER MANUFACTURER INSTALLATION REQUIREMENT & INACCORDANCE TO IMC SECTION 504.6.
8. 2" PVC COMBUSTION AIR EXHAUST & 3" PVC COMBUSTION AIR INTAKE WITH INTEGRAL VENT, TERMINATE MIN 12" ABOVE WINDOW OR MIN 30" ABOVE ROOF.

22x34 Plotted at 1/4"=1'-0" - 11x17 Plotted at 1/8" = 1'-0"

1125 7th St NE - STONY CREEK HOMES
MECHANICAL PLAN - CELLAR & FIRST FLOORS



DRAWN BY:
MCR
DATE: 03/10/17
REV No. DATE
004 04/16/18

01.01.17

SHEET No.
M.01