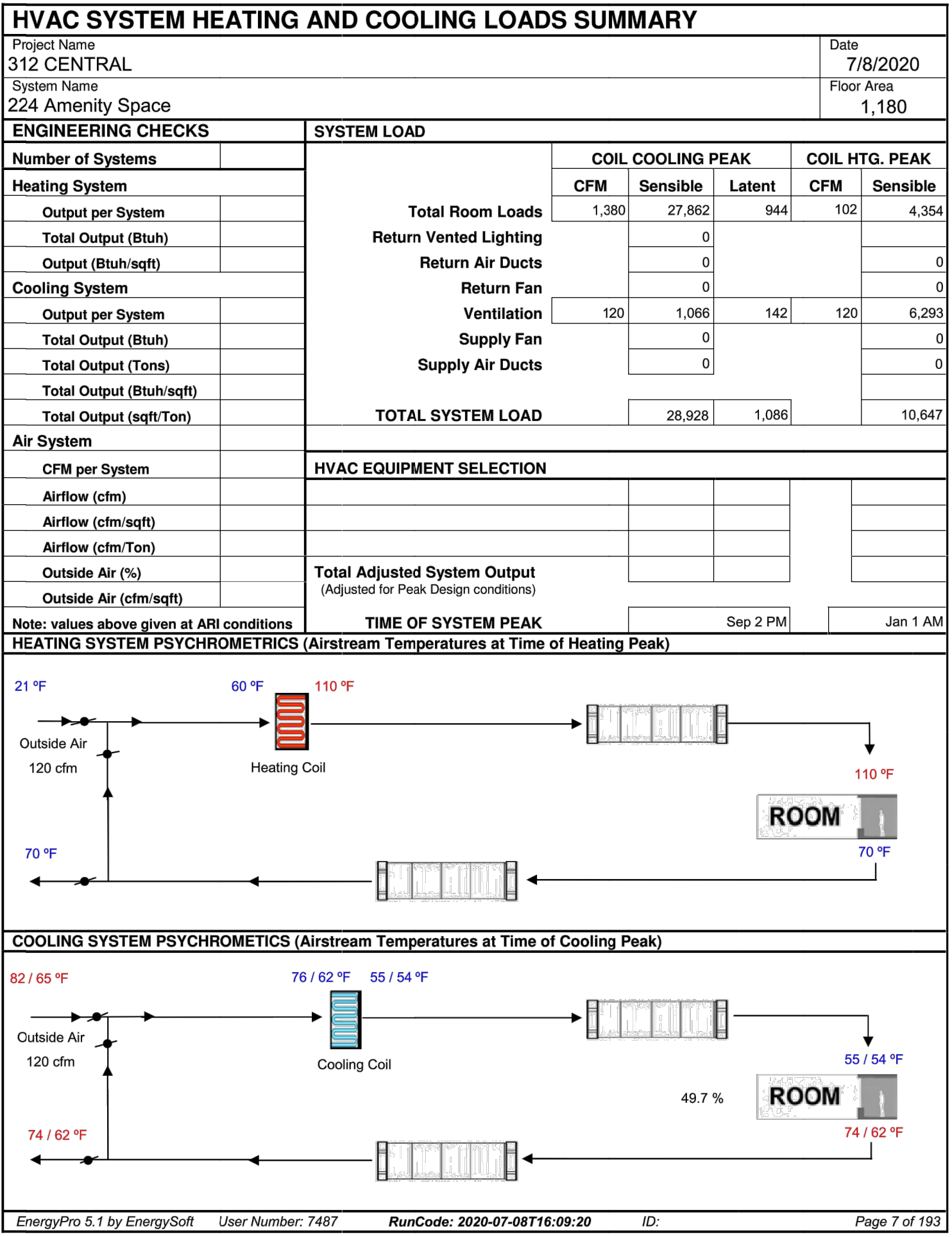
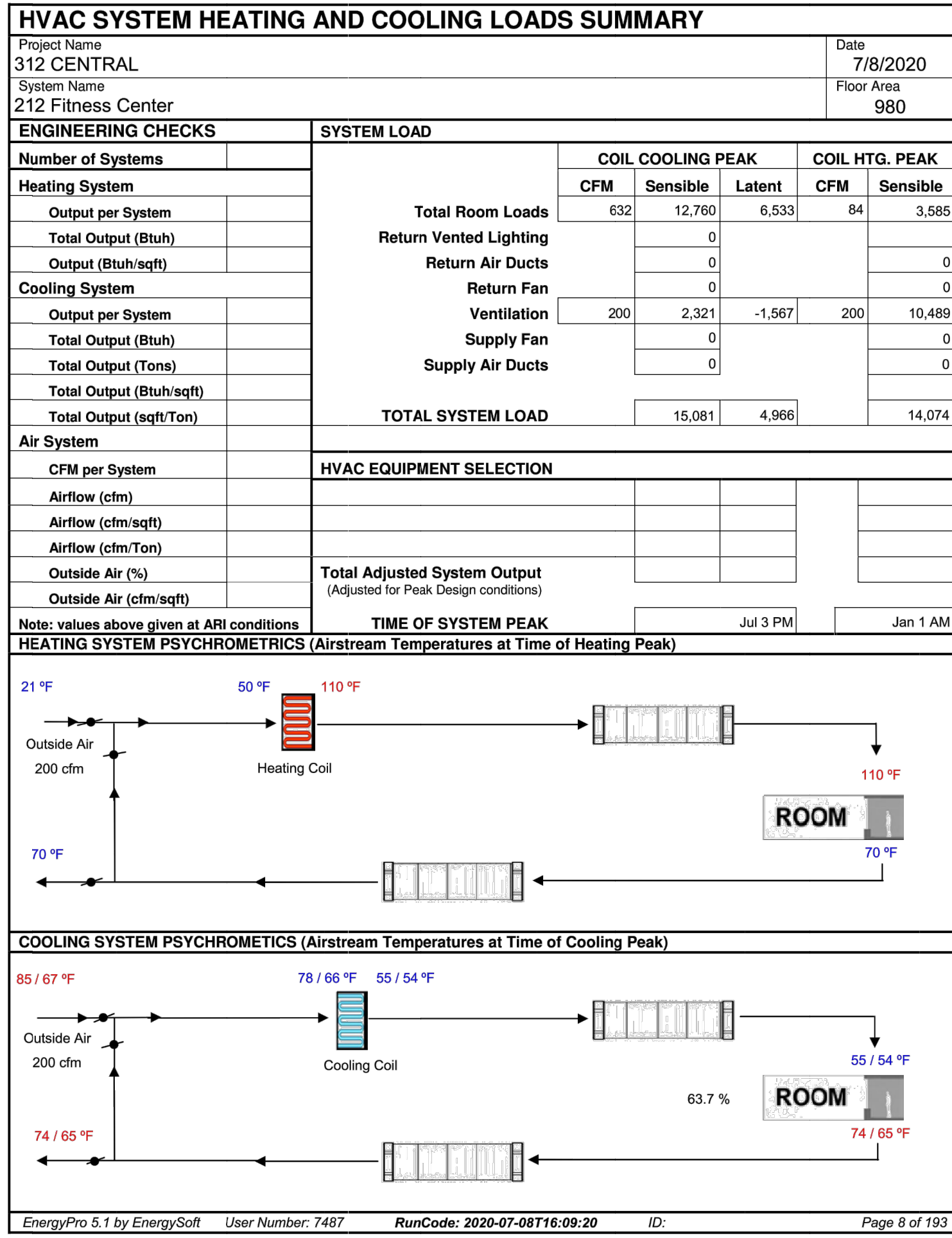
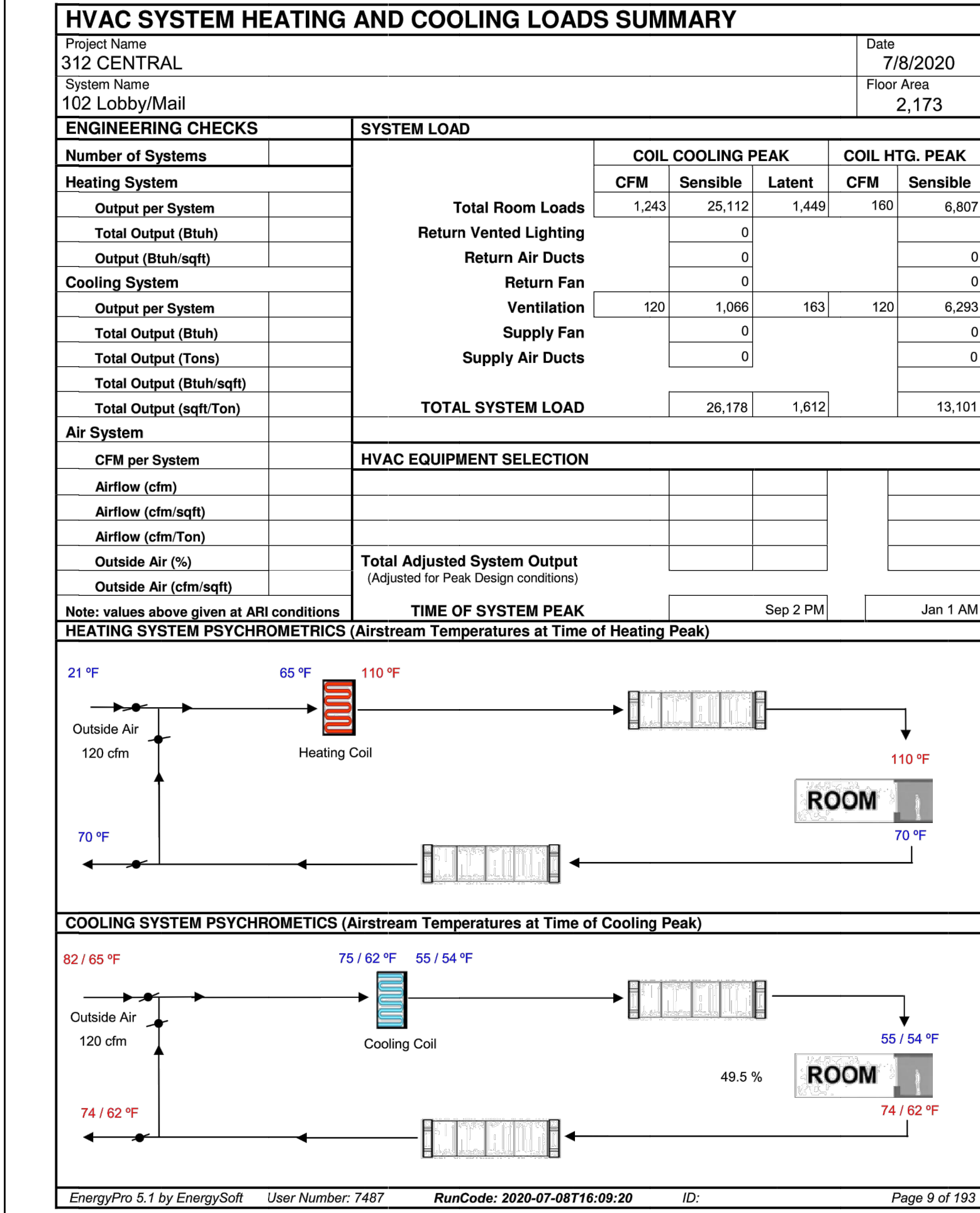


219-0502

VENTILATION CALCULATIONS

*THIS FORM APPLIES DEFAULT OCCUPANCY VENTILATION VALUES FROM ASHRAE 62.1 AND ASHRAE 170 *INDICATES SIZING BASED ON MANUFACTURER'S RECOMMENDATIONS OR COOLING REQUIREMENTS OF EQUIPMENT IN SPACE*											
ROOM / ZONE	OCCUPANCY CLASSIFICATION	*AREA (SF) OR FIXTURES (# OR KVA)	*STANDARD 62.1 (CFM/PERSON)	62.1 AREA OUTDOOR AIRFLOW RATE IN BREATHING ZONE CFM/MSQFT	62.1 DEFAULT OCCUPANT DENSITY /1000SF	*62.1 MINIMUM VENTILATION (CFM)	OSA	EXH	OSA	EXH	*VENTILATION SYSTEM
P2											
P201 PARKING	GARAGE	25157	0.0	0.00	0	0	18867	-	19000	-	GEF-1
P205 GROTTO	COMMON ROOM	450	7.5	0.06	40	162	-	165	-	ERV-1	
P204 STORAGE	RES. STORAGE	252	0.0	0.06	0	15	-	-	15	-	EF-1
P202 VEST	ENTRY	160	5.0	0.06	10	18	-	160	-	ERV-1	
P1											
P101 PARKING	GARAGE	24746	0.0	0.00	0	0	18560	-	18600	-	GEF-1
P104 STORAGE	RES. STORAGE	411	0.0	0.06	0	25	-	-	25	-	EF-4
P102 VEST	ENTRY	160	5.0	0.06	10	18	-	160	-	ERV-1	
P111 BIKE STOR.	RES. STORAGE	280	0.0	0.06	0	17	-	-	50	-	EF-3
L1											
102 LOBBY	ENTRY	2085	5.0	0.06	10	229	-	230	-	ERV-1	
L1 LOADING DOCK	GARAGE	1723	0.0	0.00	0	0	1292	-	1300	-	GEF-1
109 JANITOR	JANITOR	50	0.0	0.00	0	0	50	-	50	-	ERV-1
110 TRASH	TRASH ROOM	500	0.0	0.00	0	0	500	-	500	-	TEF-1
107 RESTROOM	RESTROOM	1	0.0	0.00	0	0	50	-	50	-	ERV-1
108 RESTROOM	RESTROOM	1	0.0	0.00	0	0	50	-	50	-	ERV-1
106 STORAGE	RES. STORAGE	145	0.0	0.06	0	9	-	-	50	-	ERV-1
104 STORAGE	RES. STORAGE	109	0.0	0.06	0	7	-	-	50	-	ERV-1
L2											
212 FITNESS CENTER	FITNESS	962	20.0	0.06	10	250	-	250	-	ERV-1	
225 BIKE STORAGE	RES. STORAGE	200	0.0	0.06	0	12	-	15	-	ERV-1	
224 AMENITY	LIBRARIES	824	0.12	0.10	10	140	-	140	-	ERV-1	
230 VEST	ENTRY	1245	5.0	0.06	10	137	-	150	-	ERV-1	
231 CORRIDOR	COR. WHOLE HOUSE	662	0.0	0.12	0	79	-	300	-	RTU-1	
L2 TRASH RM	TRASH ROOM	30	0.0	0.00	0	0	30	-	30	-	TEF-2
232 CORRIDOR	ENTRY	116	5.0	0.06	10	13	-	-	-	-	NAT VENT
235 CORRIDOR	ENTRY	101	5.0	0.06	10	11	-	-	-	-	NAT VENT
234 CORRIDOR	COR. WHOLE HOUSE	739	0.0	0.12	0	89	-	300	-	RTU-2	
L3											
330 VEST	ENTRY	835	5.0	0.06	10	92	-	100	-	ERV-1	
325 BIKE STORAGE	RES. STORAGE	188	0.0	0.06	0	11	-	-	15	-	EF-7
331 CORRIDOR	COR. WHOLE HOUSE	774	0.0	0.12	0	93	-	300	-	RTU-1	
332 CORRIDOR	COR. WHOLE HOUSE	815	0.0	0.12	0	98	-	300	-	RTU-2	
L3 TRASH	TRASH ROOM	30	0.0	0.00	0	0	30	-	30	-	TEF-3
L4											
425 BIKE STORAGE	RES. STORAGE	188	0.0	0.06	0	11	-	-	15	-	EF-8
430 VEST	ENTRY	705	5.0	0.06	10	78	-	80	-	ERV-1	
432 CORRIDOR	COR. WHOLE HOUSE	847	0.0	0.12	0	102	-	300	-	RTU-2	
431 CORRIDOR	COR. WHOLE HOUSE	777	0.0	0.12	0	93	-	300	-	RTU-1	
L4 TRASH	TRASH ROOM	30	0.0	0.00	0	0	30	-	30	-	TEF-4
ROOF											
501 ROOF VEST	ENTRY	250	5.0	0.06	10	28	-	-	-	-	NAT VENT
ROOF VEST	ENTRY	467	5.0	0.06	10	51	-	55	-	ERV-1	
ROOF RESTROOM	RESTROOM	1	0.0	0.00	0	0	50	-	50	-	EF-6



City of Kirkland
Reviewed by A HAUPT
10/23/2020

REVISIONS
DATE
DESCRIPTION

PLOT DATE: 9/17/2020

DESIGN DEVELOPMENT
DRAWING
DATE:
COORDINATION
DATE:
PERMIT
DATE:
CONSTRUCTION
DATE: 07.15.2020
AS BUILT
DATE:

312 CENTRAL
312 CENTRAL
KIRKLAND, WA, 98033
TITLE:
CLIENT: W.G. CLARK
DRAWN BY:

5100 D ST.
N.W.
SEATTLE, WA 98101
(206) 872-2665
TOLL FREE: (800) 937-9191
CONT. # ENR00A 0050L
PROJECT MANAGER: XXXX



HVAC CALCULATIONS

SCALE: AS-NOTED

M-002

219-0502

ZONE LOAD SUMMARY

Project Name: 312 CENTRAL
System Name: Level 2 West
Floor Area: 7,261
Date: 7/8/2020

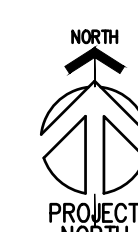
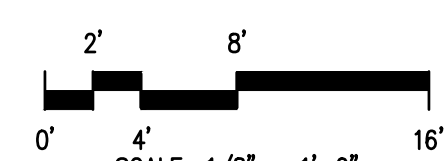
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ZONE NAME	SYSTEM NAME	Mult.	CFM	Sensible	Latent	Heating	CFM
UNIT 215 S03		1.0	183	3,997	601	47	4,362
UNIT 214 S02		1.0	183	3,997	601	47	4,362
UNIT 216 S02		1.0	183	3,997	601	47	4,362
UNIT 217 A07		1.0	436	9,177	741	151	8,992
UNIT 218 S02		1.0	220	4,939	667	45	4,561
UNIT 219 B03		1.0	465	10,237	1,073	141	9,760
UNIT 220 A08		1.0	255	5,608	781	59	4,870
UNIT 221 A08		1.0	255	5,608	781	59	4,870
UNIT 222 A09		1.0	255	5,608	781	59	4,870
UNIT 223 A09		1.0	255	5,608	781	59	4,870
TOTALS		0	0	0	0	520	58,592

EnergyPro 5.1 by EnergySoft User Number: 7487 RunCode: 2020-07-08T16:09:20 ID: Page 11 of 193

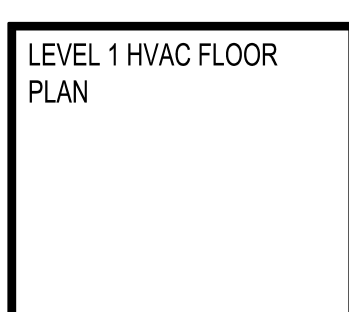
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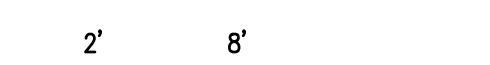
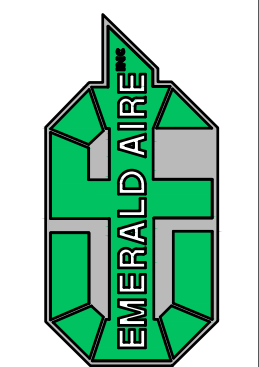
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System Name: Level 4 West
Floor Area: 8,141
Date: 7/8/2020

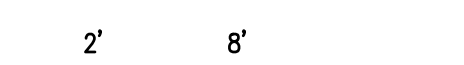
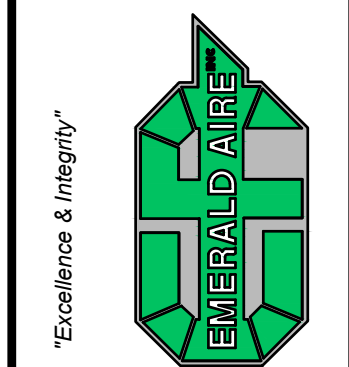
ZONE LOAD SUMMARY		ZONAL SYSTEM		COOLING PEAK		HEATING PEAK	
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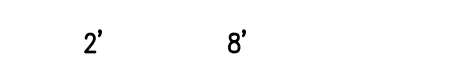


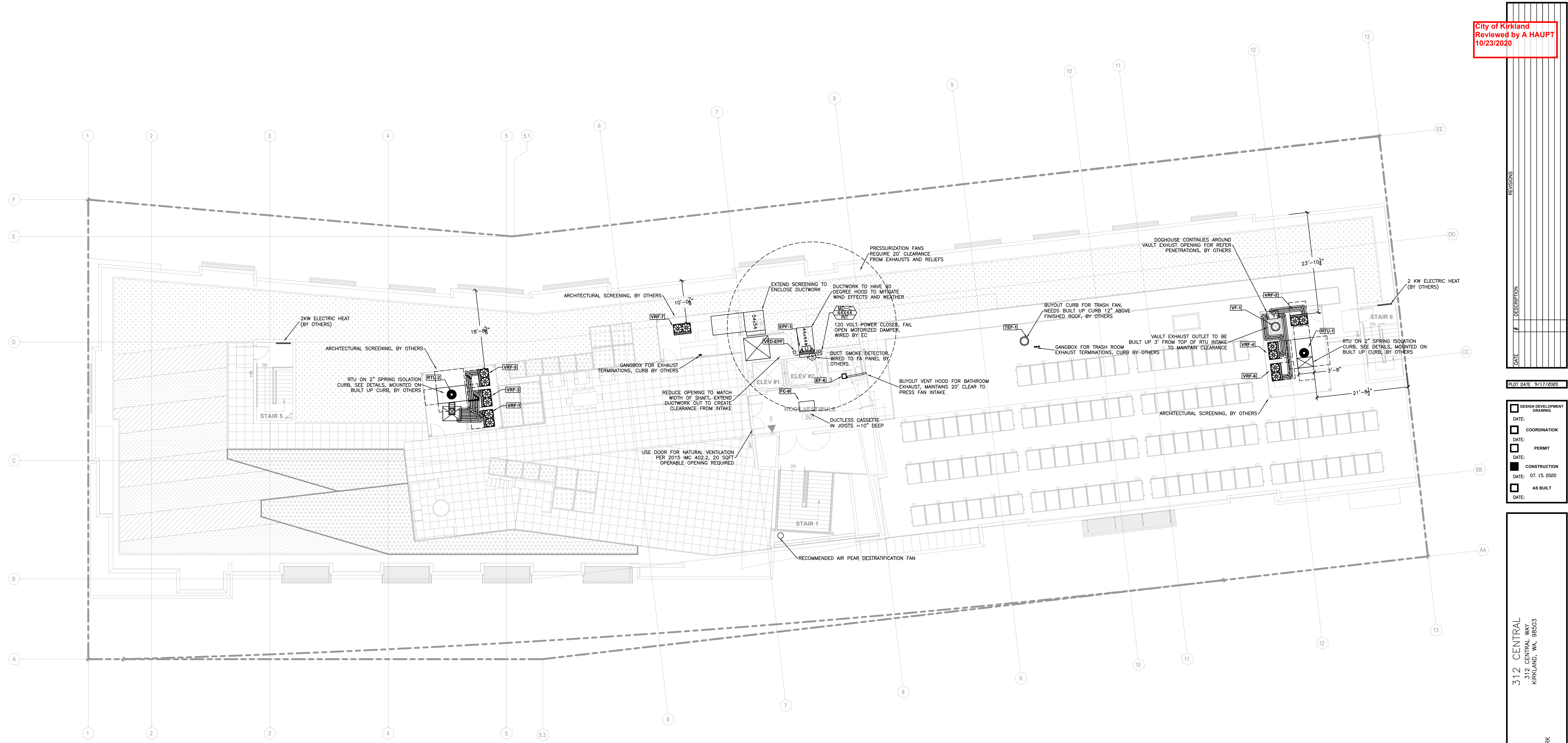




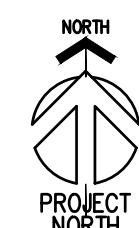
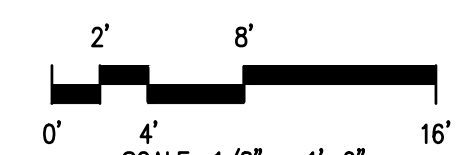
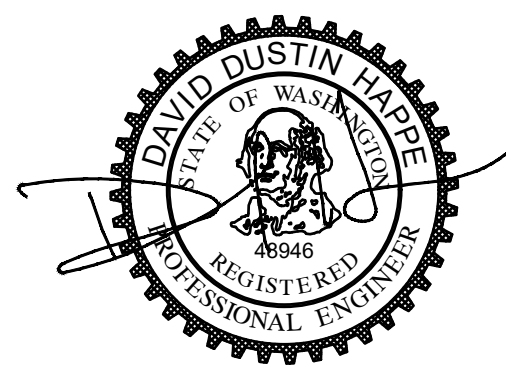








1 ROOF HVAC FLOOR PLAN
SCALE: 1/8" = 1' 0"



SEATTLE DPD STAMP

SCALE: AS-NOTED

M-108

219-0502

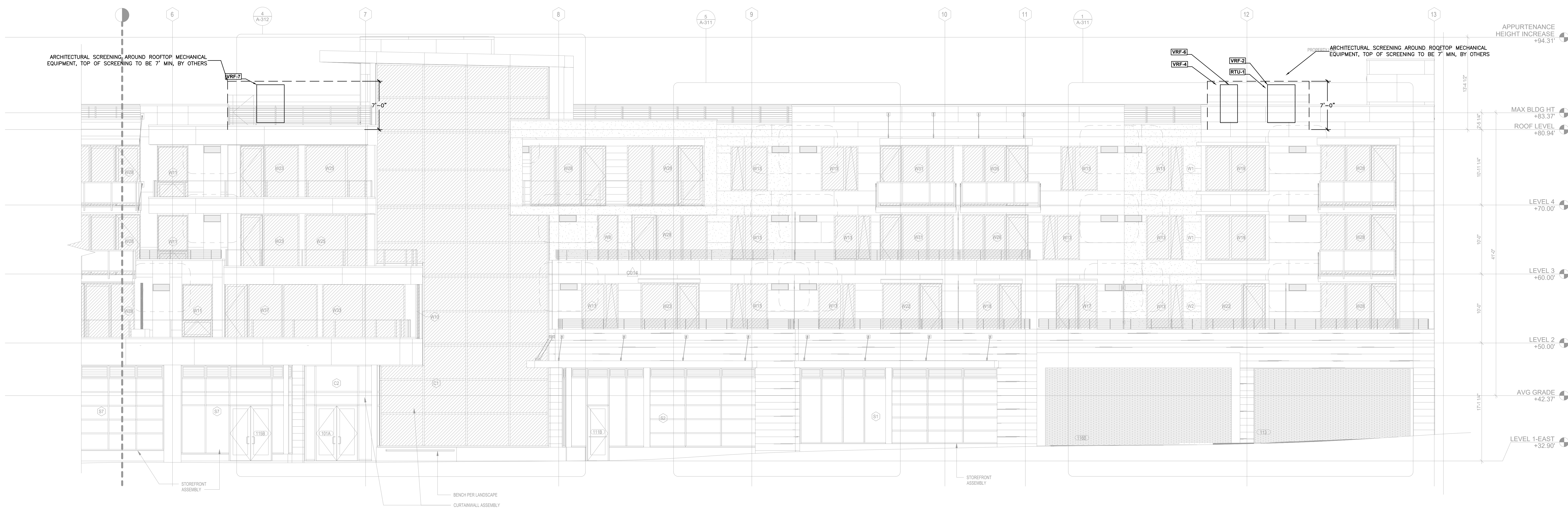
TITLE: 312 CENTRAL
312 CENTRAL HWY
KIRKLAND, WA, 98003

CLIENT: W.G. CLARK
DESIGN BY:

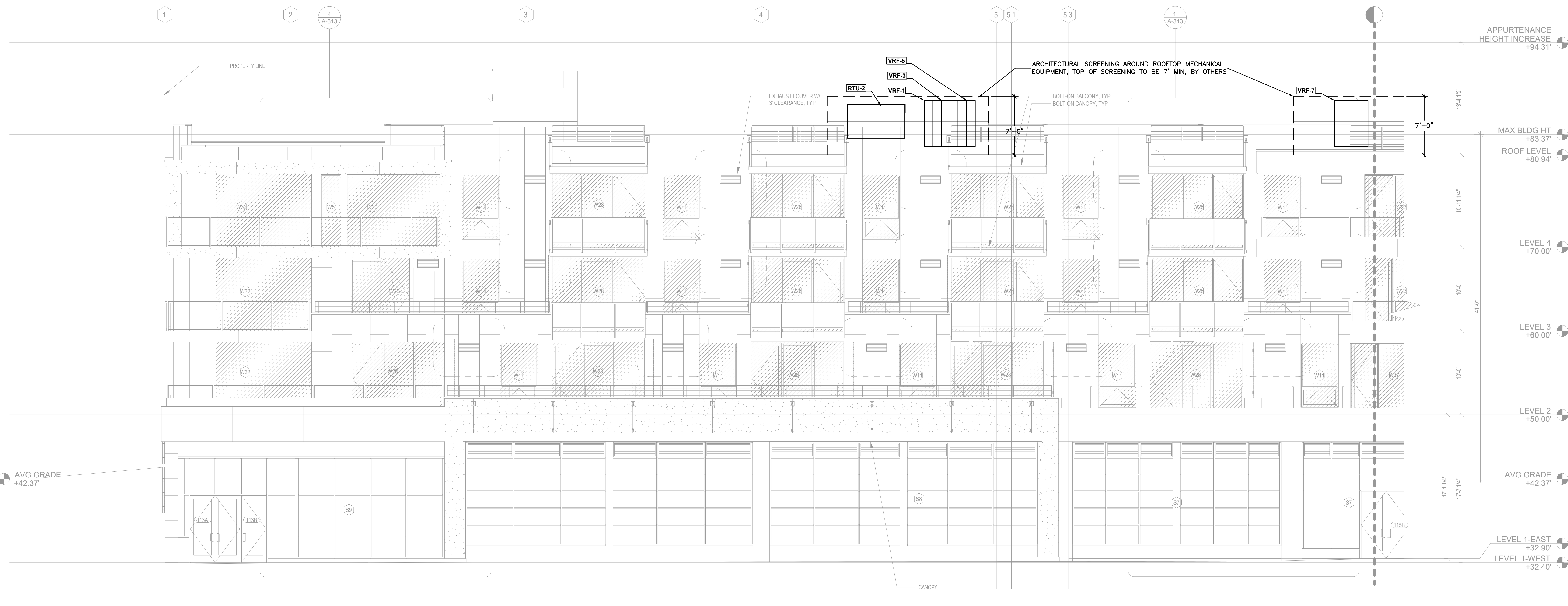
5100 D ST. NW
SUITE 101
(206) 872-5665
TOLL FREE: (800) 251-2597
CONT. # ENERBA COSBL
PROJECT MANAGER: XXXX



ROOF HVAC FLOOR PLAN



1 SOUTH ELEVATION II
SCALE: 3/16" = 1' 0"



1 SOUTH ELEVATION I
SCALE: 3/16" = 1' 0"

City of Kirkland
Reviewed by A HAUPT
10/23/2020

REVISIONS

DESCRIPTION

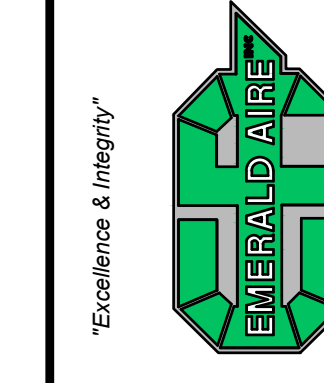
PLOT DATE 10/22/2020

DESIGN DEVELOPMENT
DRAWING
DATE:
COORDINATION
DATE:
PERMIT
DATE:
CONSTRUCTION
DATE:
AS BUILT
DATE:

312 CENTRAL
CENTRAL
KIRKLAND, WA 98033

TITLE:
CLIENT: W.G. CLARK
DESIGN BY:

5108 D ST.
NW
(253) 872-5665 x 91
TOLL FREE: (800) 251-9197
CONT. # ENERBA 005BL
PROJECT MANAGER: JXX

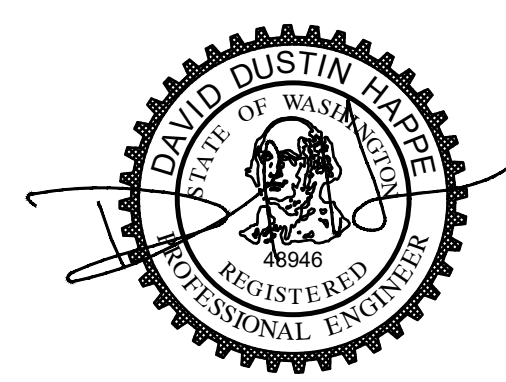


HVAC BUILDING
ELEVATIONS

SCALE: AS-NOTED

M-211

219-0502



10/22/2020



SCALE: 1/8" = 1'-0"

DATE	#	DESCRIPTION
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PLOT DATE 9/17/2020

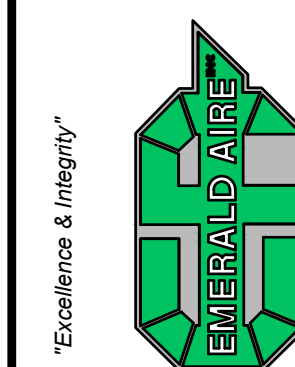
☐	DESIGN DEVELOPMENT DRAWING
DATE:	
☐	COORDINATION
DATE:	
☐	PERMIT
DATE:	
☒	CONSTRUCTION
DATE:	07.15.2020
☐	AS BUILT
DATE:	

312 CENTRAL
312 CENTRAL WAY
KIRKLAND, WA, 98503

TITLE: _____

CLIENT: W.G. CLARK

5108 D ST. N.W.
AUBURN, WA 98001
(253) 872-5665
TOLL FREE: (800) 291-5191
FAX: (253) 872-5797
CONT. # EMERAN 055BL

HVAC BUILDING
ELEVATIONS

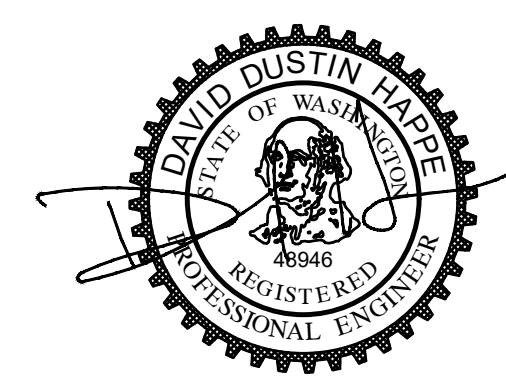
SCALE: AS-NOTED

M-212

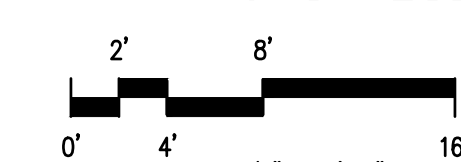
219-0502

1 EAST ELEVATION
SCALE: 3/16" = 1' 0"

1 WEST ELEVATION
SCALE: 3/16" = 1' 0"

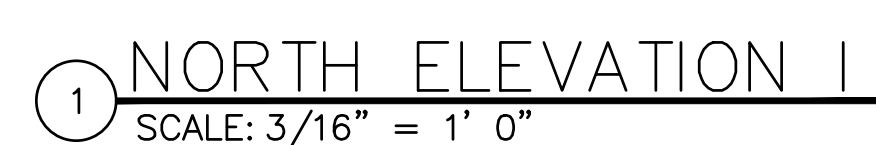
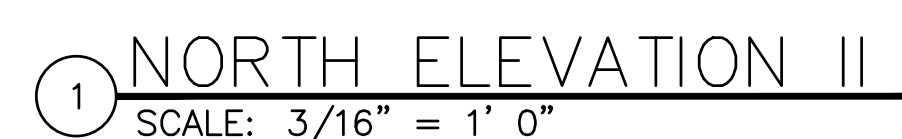


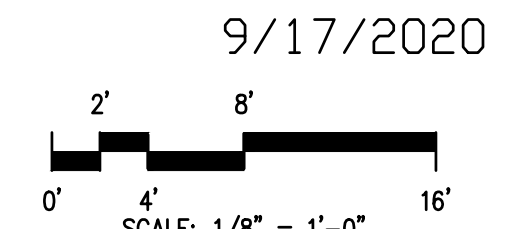
9/17/2020

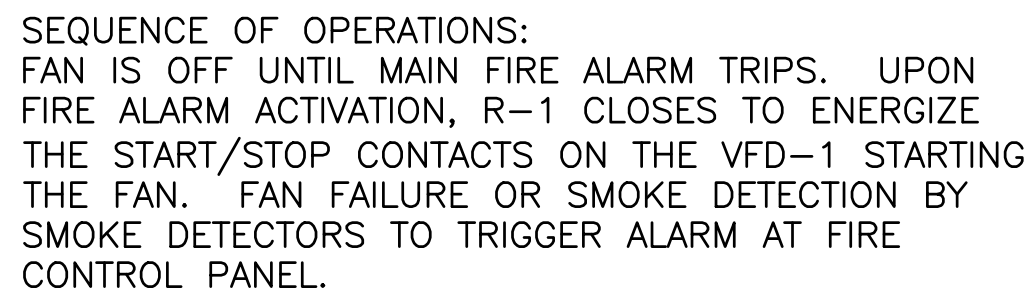


SCALE: $1/8'' = 1'-0''$

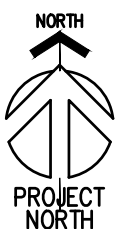
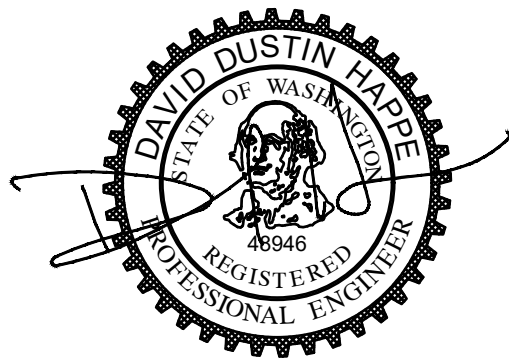
SEATTLE DPD STAMP







IBC SMOKE PRESSURIZATION VFD W/ SMOKE DET.
NTS



☐	DESIGN DEVELOPMENT DRAWING
DATE:	
☐	COORDINATION
DATE:	
☒	PERMIT
DATE:	
☐	CONSTRUCTION
DATE:	
☐	AS BUILT
DATE:	

TITLE:

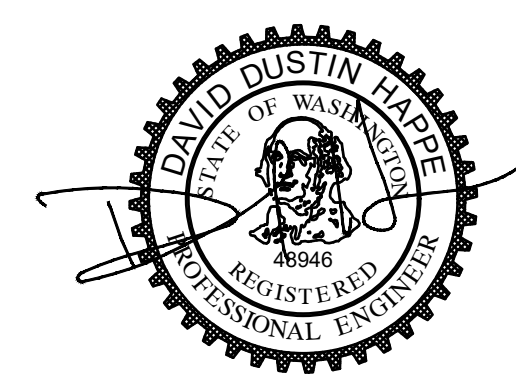
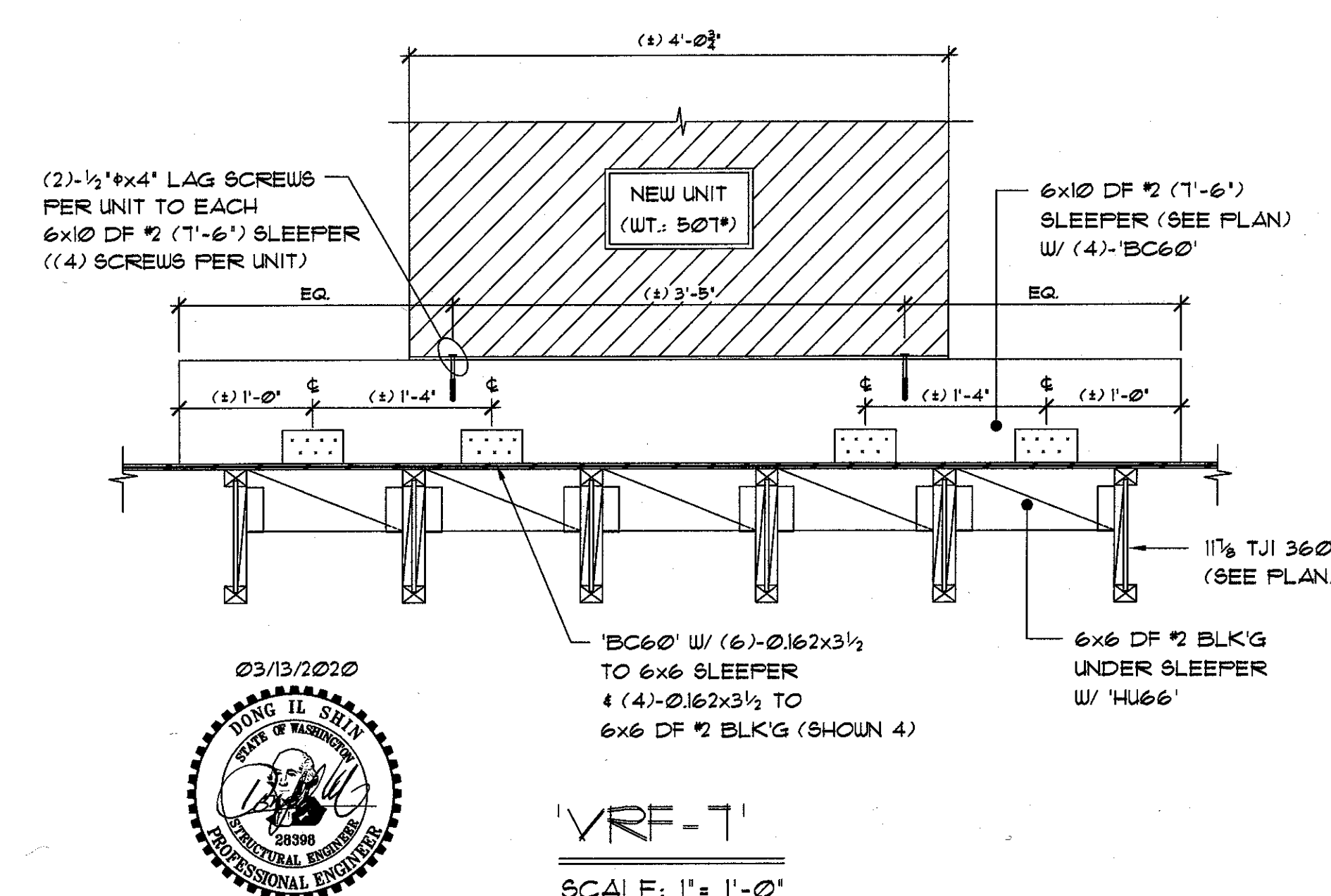
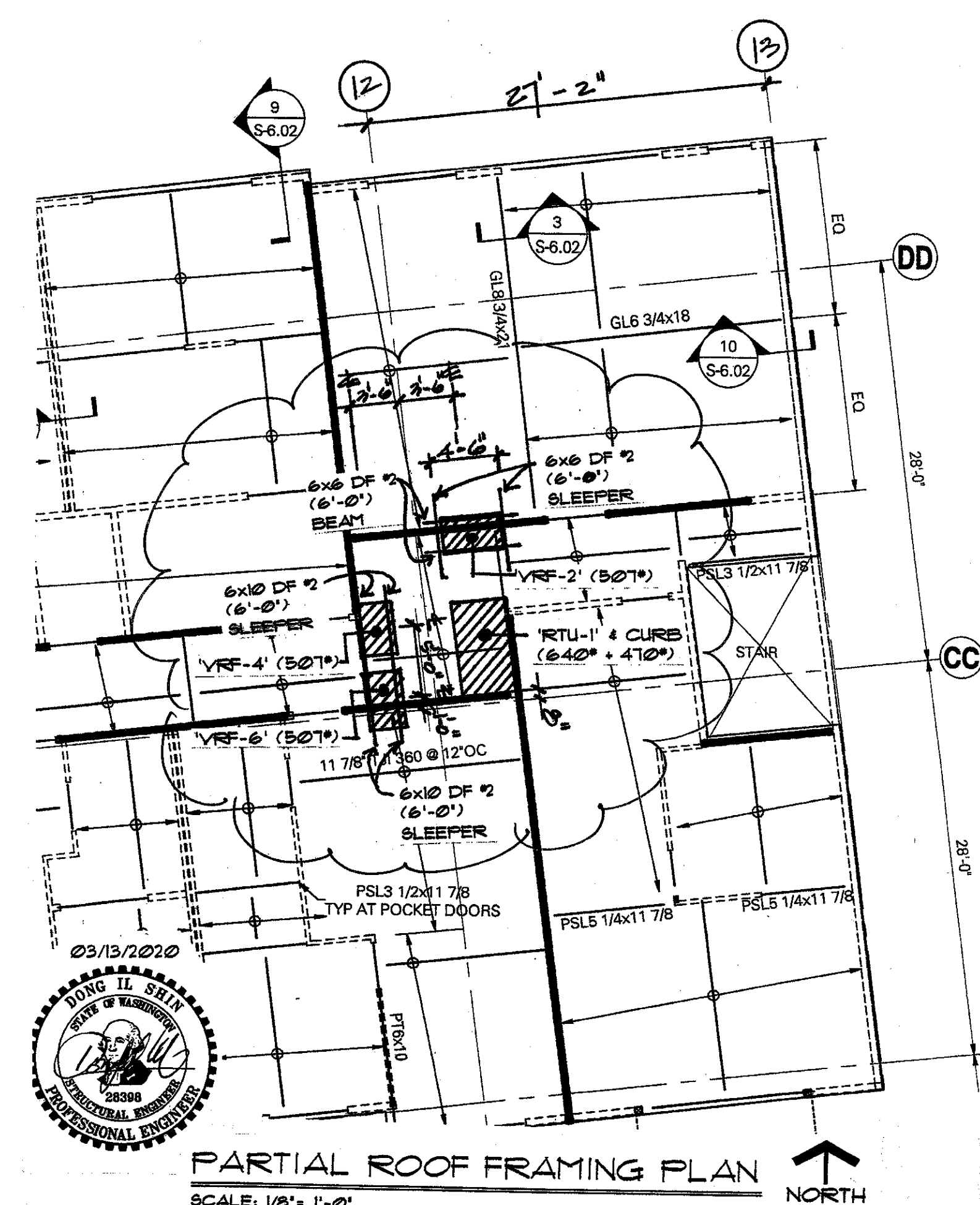
CLIENT: W.G. CLARK



SCALE: AS-NOTED

M-502

219-0502



10/22/2020