

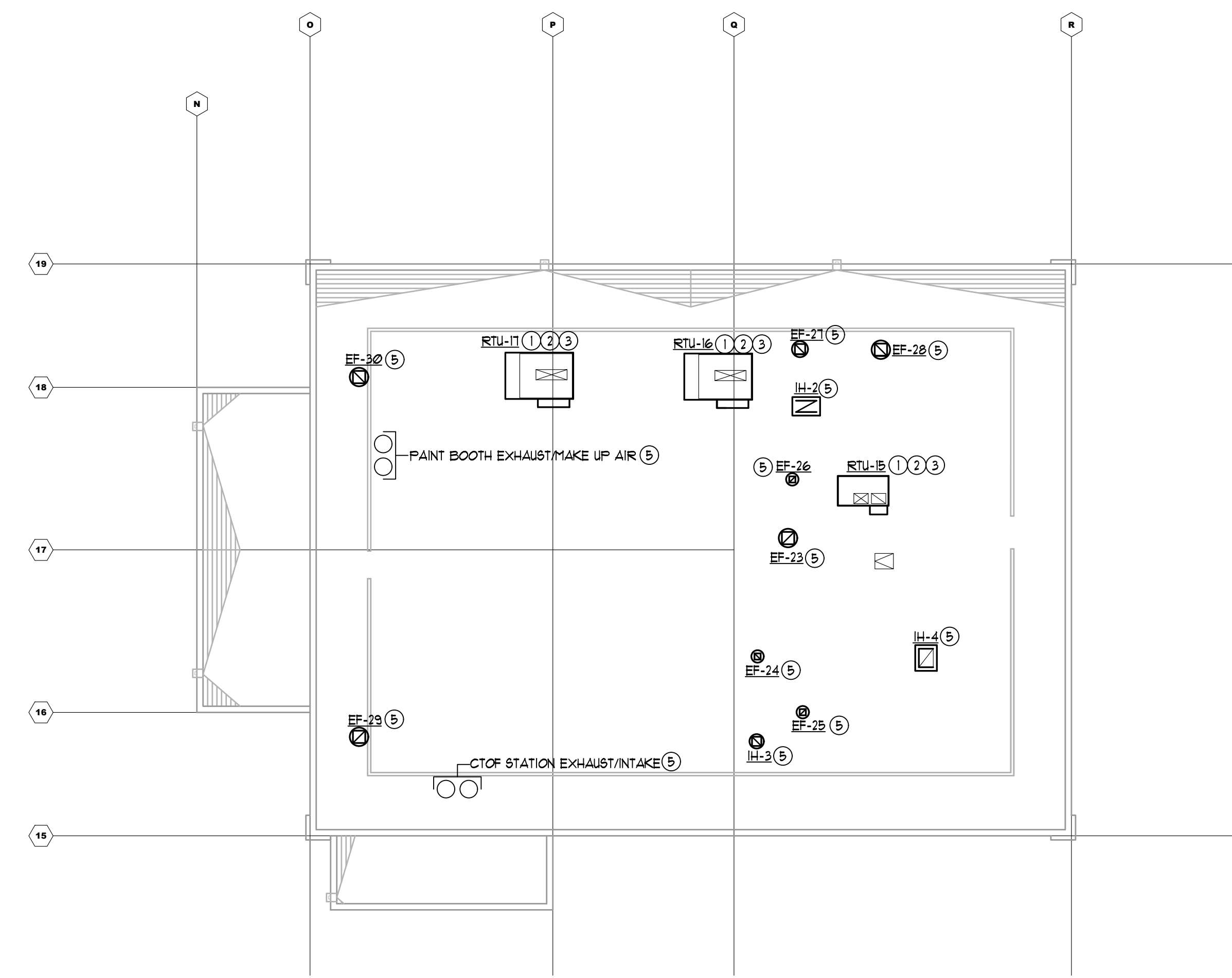
AM. CERRA, JR. P.E.  
 1827 POWERS FERRY ROAD  
 BLDG # 18, SUITE # 100  
 ATLANTA, GEORGIA 30339  
 770.980.0581

20241.01

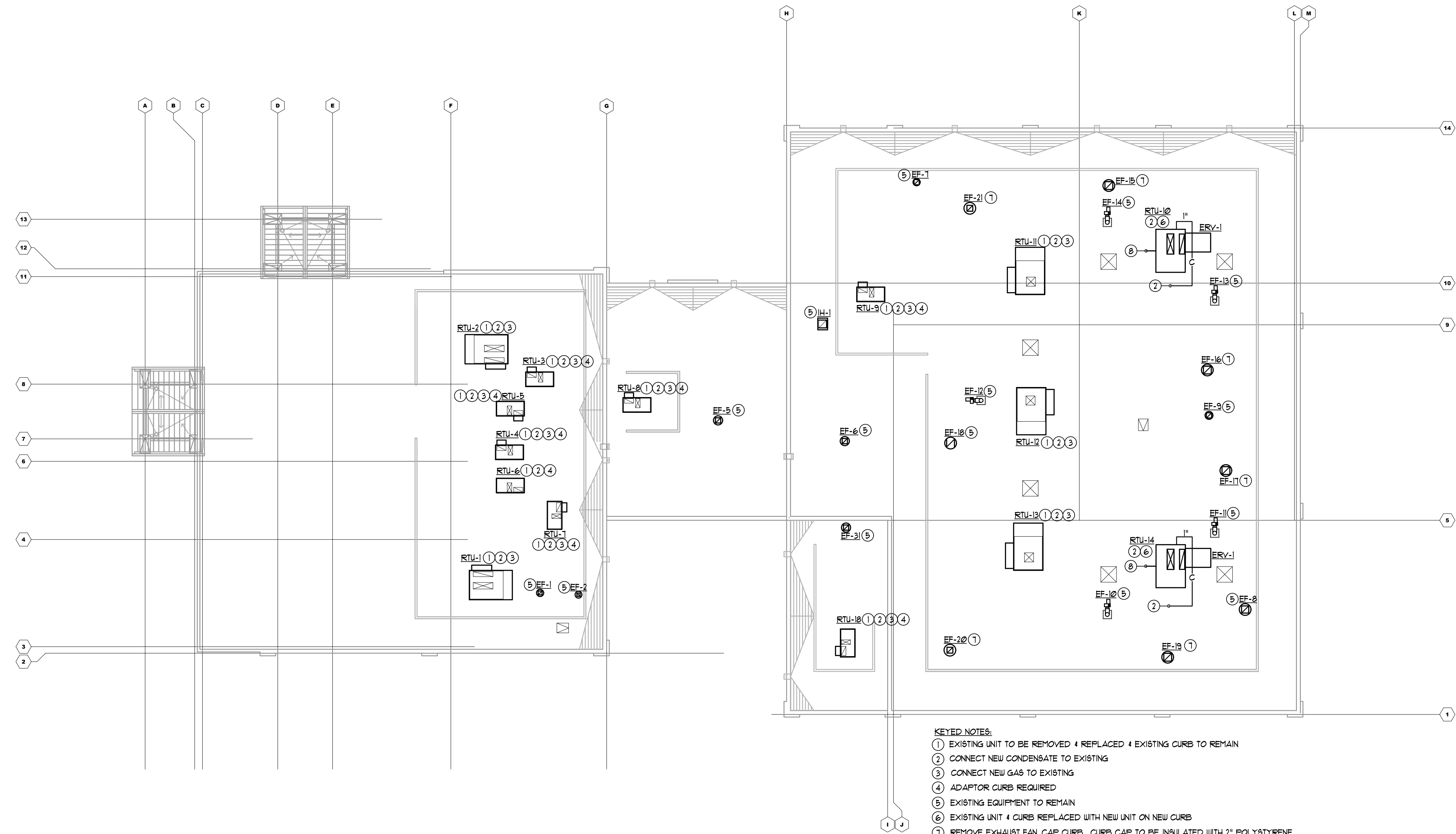


1/20/21

THIS DRAWING IS THE PROPERTY OF A.M. CERRA, JR. P.E. AND IS NOT TO BE REPRODUCED IN WHOLE OR IN PART. IS NOT TO BE USED ON ANY OTHER PROJECT AND SHALL BE RETURNED UPON REQUEST. COPYRIGHT AS DATED A.M. CERRA, JR. P.E. IS NOT VALID UNLESS SIGNATURE AND SEAL ARE PRESENT.

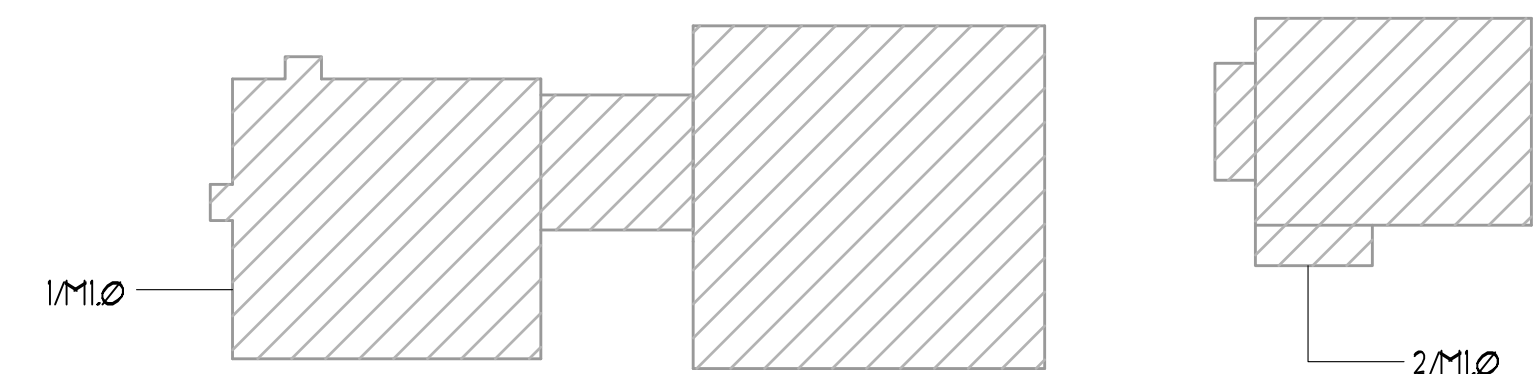


**FQC ROOF PLAN - HVAC**  
 SCALE: 1/16" = 1'-0"



- KEYED NOTES:**
- ① EXISTING UNIT TO BE REMOVED & REPLACED & EXISTING CURB TO REMAIN
  - ② CONNECT NEW CONDENSATE TO EXISTING
  - ③ CONNECT NEW GAS TO EXISTING
  - ④ ADAPTOR CURBS REQUIRED
  - ⑤ EXISTING EQUIPMENT TO REMAIN
  - ⑥ EXISTING UNIT & CURB REPLACED WITH NEW UNIT ON NEW CURB
  - ⑦ REMOVE EXHAUST FAN CAP CURB. CURB CAP TO BE INSULATED WITH 2" POLYSTYRENE
  - ⑧ GAS PIPE ON THRU ROOF. SEE I/M1.1 FOR CONTINUATION

**ROOF PLAN - HVAC**  
 SCALE: 1/16" = 1'-0"



KEY PLAN

RELEASED FOR CONSTRUCTION

APPROVAL

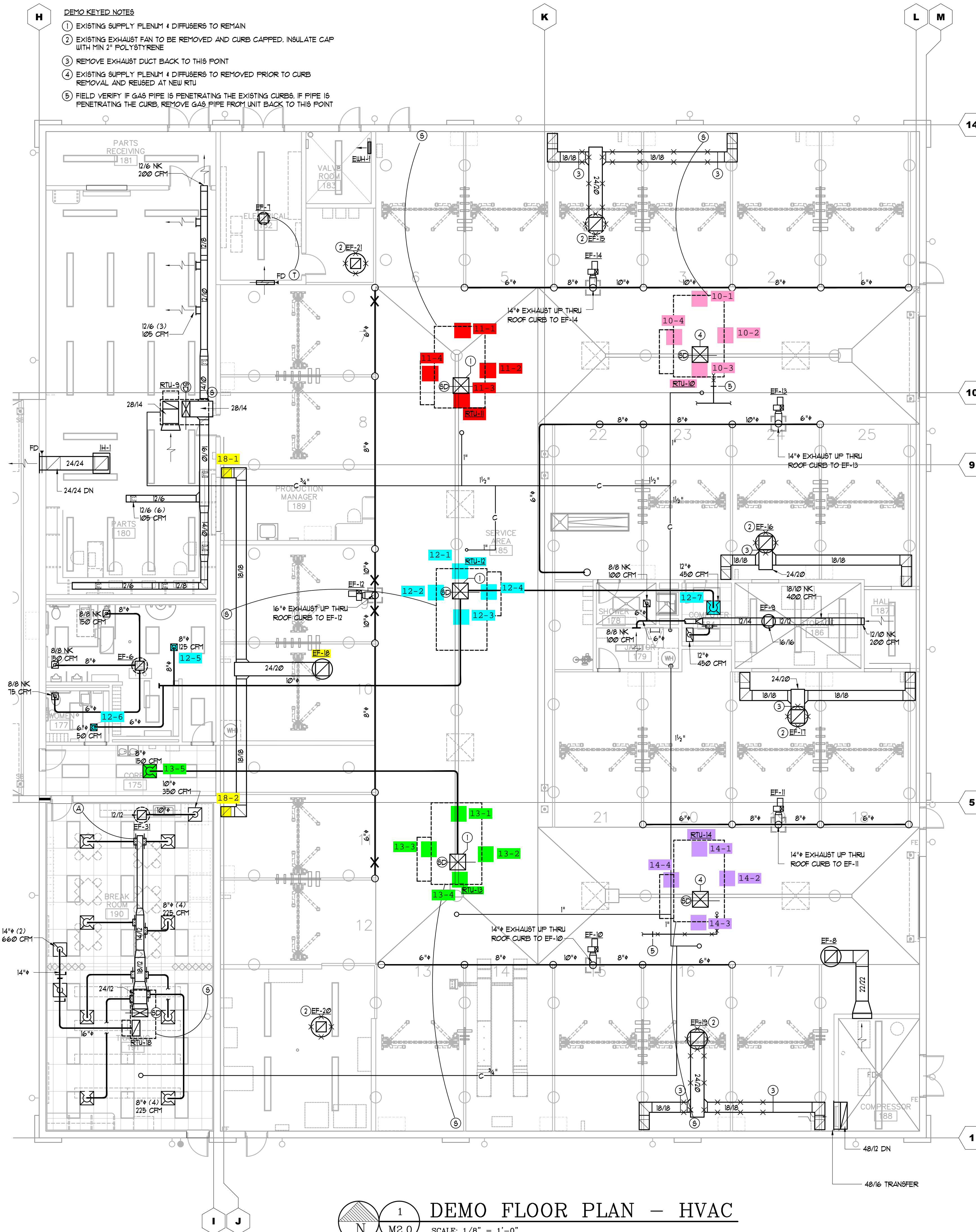
REVISIONS

REV. NO.	DATE	DESCRIPTION	BY

**CARMAX**  
 THE AUTO SUPERSTORE  
CARMAX THE AUTO SUPERSTORE WEST COAST, INC.  
 18000 AUTOMALL DRIVE GREEN PARKWAY, RICHMOND, VA 23298  
 (800) 242-0022  
**STORE NO. 7459**  
**4300 MCHENRY AVE.**  
**MODESTO, CALIFORNIA**

PROJECT NO	20241
DATE	20 JAN 2021
SHEET TITLE	ROOF PLANS - HVAC
SHEET NO	<b>M1.0</b>

- DEMO KEYED NOTES**
- EXISTING SUPPLY FLENUM & DIFFUSERS TO REMAIN
  - EXISTING EXHAUST FAN TO BE REMOVED AND CURB CAPPED, INSULATE CAP WITH MIN 2" POLYSTYRENE
  - REMOVE EXHAUST DUCT BACK TO THIS POINT
  - EXISTING SUPPLY FLENUM & DIFFUSERS TO REMOVED PRIOR TO CURB REMOVAL AND REUSED AT NEW RTU
  - FIELD VERIFY IF GAS PIPE IS PENETRATING THE EXISTING CURBS. IF PIPE IS PENETRATING THE CURB, REMOVE GAS PIPE FROM UNIT BACK TO THIS POINT



**1 DEMO FLOOR PLAN - HVAC**  
SCALE: 1/8" = 1'-0"

AM. CERRA, JR. P.E.  
1827 POWERS FERRY ROAD  
BLDG # 18, SUITE # 100  
ATLANTA, GEORGIA 30339  
770.980.0581

20241.01



1/20/21

THIS DRAWING IS THE PROPERTY OF A.M. CERRA, JR., P.E. AND IS NOT TO BE REPRODUCED IN WHOLE OR IN PART. IS NOT TO BE USED ON ANY OTHER PROJECT AND SHALL BE RETURNED UPON REQUEST. COPYRIGHT AS DATED A.M. CERRA, JR., P.E. IS NOT VALID UNLESS SIGNATURE AND SEAL ARE PRESENT.

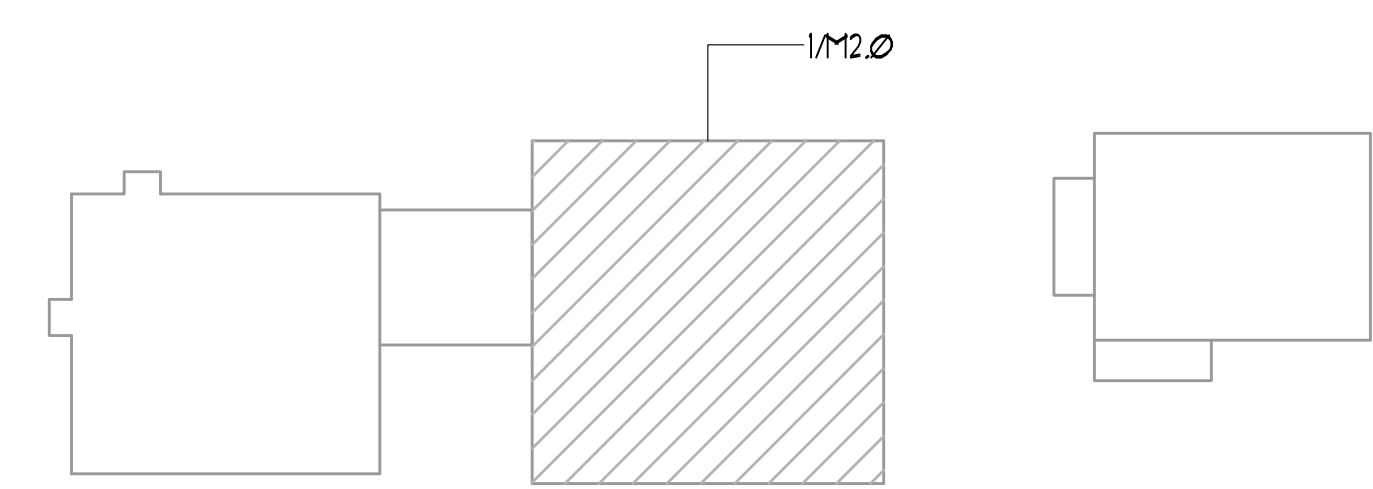
RELEASED FOR CONSTRUCTION

APPROVAL			
REVISIONS			
REV. NO.	DATE	DESCRIPTION	BY

**CARMAX**  
THE AUTO SUPERSTORE  
CARMAX THE AUTO SUPERSTORE WEST COAST, INC.  
18000 HAZARD RD. GREEN PARKWAY, RICHMOND, VA 23138  
**STORE NO. 7159**  
**4300 MCHENRY AVE.**  
**MODESTO, CALIFORNIA**

PROJECT NO	20241
DATE	20 JAN 2021
SHEET TITLE	DEMO PART PLAN - HVAC

SHEET NO **M2.0**



KEY PLAN



1/20/21

THIS DRAWING IS THE PROPERTY OF A.M. CERRA, JR., P.E. AND IS NOT TO BE REPRODUCED IN WHOLE OR IN PART. IT IS NOT TO BE USED ON ANY OTHER PROJECT AND SHALL BE RETURNED UPON REQUEST. COPYRIGHT AS DATED A.M. CERRA, JR., P.E. IS NOT VALID UNLESS SIGNATURE AND SEAL ARE PRESENT.

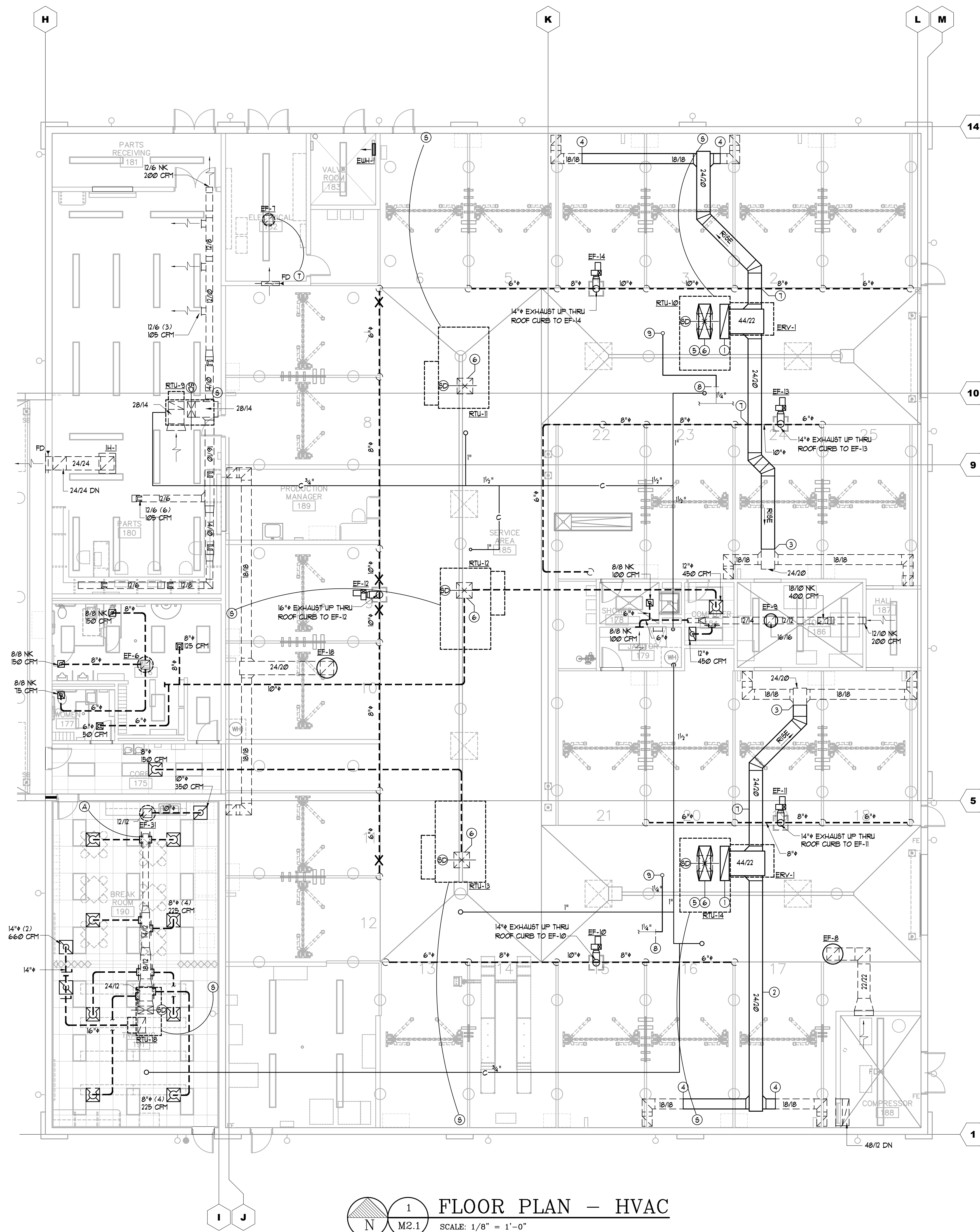
SERVICE AREA AIR BALANCE			
ITEM	SERVES	O.A.	EXHAUST
RTU-10 (ERV)	SERVICE	6000	5600 (LOW)
RTU-11 (BP)	SERVICE	6000	
RTU-12 (BP)	SERVICE	6000	
RTU-13 (BP)	SERVICE	6000	
RTU-14 (ERV)	SERVICE	6000	5600 (LOW)
EF-6	TOILET		400
EF-7	CO EXHAUST		1200
EF-8	COMP ROOM		3500
EF-9	DETAIL STOR.		1250
EF-10	CO EXHAUST		1500
EF-11	CO EXHAUST		1200
EF-12	CO EXHAUST		1800
EF-13	CO EXHAUST		1500
EF-14	CO EXHAUST		1800
EF-15	LOW EXH		3400 (LOW)
TOTAL		30000	28750

MINIMUM 1 CFM/SF EXHAUST AT THE FLOOR FOR EXEMPTION TO CLASS I DIVISION II PER NEC SERVICE NET AREA 14,300 SF  
 TOTAL EXHAUST FROM ERV'S AND EF-15:  
 215600' + 3400' + 14600 CFM

MINIMUM EXHAUST PER 2019 CALIFORNIA MECHANICAL CODE FOR REPAIR GARAGES PER TABLE 403.1.1 IS 15 CFM/SF  
 MINIMUM EXHAUST = 15(14,300)  
 MINIMUM EXHAUST = 21450 CFM

KEYED NOTES

- 1 FLENUM FULL SIZE OF UNIT CONNECTION
- 2 HOLD DUCT HIGH @ BOTTOM OF BAR JOIST
- 3 CONNECT NEW 24/20 TO EXISTING 18/18
- 4 CONNECT NEW 18/18 TO EXISTING 18/18
- 5 EXISTING SUPPLY FLENUM 4 REGISTERS TO REMOVED PRIOR TO CURB REMOVAL AND REUSED AT NEW RTU
- 6 EXISTING SUPPLY FLENUM 4 REGISTERS TO REMAIN. CLEAN ALL REGISTERS & REPLACE DAMAGED REGISTERS WITH NEW
- 7 NEW EXHAUST DUCT UNDER EXISTING CARBON MONOXIDE EXHAUST DUCT
- 8 CONNECT NEW GAS PIPE TO EXISTING
- 9 GAS PIPE UP THRU ROOF. SEE 9/14/20 FOR DETAIL



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

RELEASED FOR CONSTRUCTION

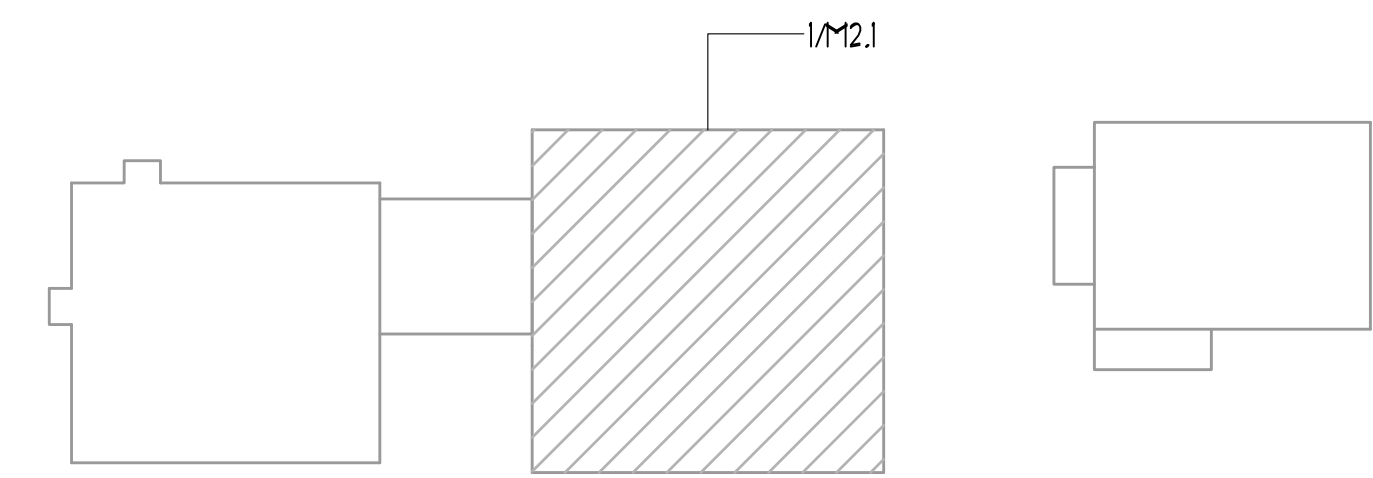
APPROVAL

REVISIONS

REV. NO.	DATE	DESCRIPTION	BY

**CARMAX**  
 THE AUTO SUPERSTORE  
 CARMAX THE AUTO SUPERSTORE WEST COAST, INC.  
 18000 HUNTERS GREEN PARKWAY, RICHMOND, VA 23238  
 STORE NO. 7159  
 4300 MCHENRY AVE.  
 MODESTO, CALIFORNIA

PROJECT NO	20241
DATE	20 JAN 2021
SHEET TITLE	FLOOR PLAN - HVAC
SHEET NO	M2.1



KEY PLAN