



SMOKE DAMPERS SHALL CLOSE UPON ACTUATION OF A LISTED SMOKE DETECTOR OR DETECTORS INSTALLED IN ACCORDANCE WITH SECTION 907.3 OF THE INTERNATIONAL BUILDING CODE.



- ① 6"Ø TE/EX UP THRU ROOF
- ② 4"Ø DRYER VENT PER FBC M504
- ③ (2) 4"Ø PVC/CAI FROM BOILER
- ④ (2) 3"Ø PVC/CAI FROM WATER HTR DIRECT VENT

NERI
ARCHIT

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CHICAGO IL 60631
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NEW AUTOMATED CARWASH FACILITY

"GRAND WASH"

ALMAVILLE ROAD & GENERAL FORREST
SMYRNA, TN

PERMIT SET - NOT FOR CONSTRUCTION

[illegible]

DIFFUSERS, REGISTERS, GRILLES, AND LOUVERS.

REFER TO DRAWINGS FOR:	A EXT AIR EXTRACTOR	REFER TO ROOM FINISH
1. DUCT SIZE OR NECK SIZE.	ALB AIR LIGHT BOOT, PLENUM	SCHEDULE AND REFLECTED
2. FACE SIZE – i.e.: 8”(24x24).	AND VOLUME DAMPER	CEILING PLAN FOR PROPER
3. PATTERN (3–WAY,etc.) IF APPLICABLE.	ASR ANTI–SMUDGE RING	COORDINATING OF DIFFUSERS,
4. CFM	AVD AUTOMATIC VOLUME DAMPER	GRILLES, AND REGISTERS.
5. SYMBOL	BWE BAKED WHITE ENAMEL	
	EQE EQUALIZING GRID	
	FR–1 WITH 1–HOUR DAMPER	
	MSD MULTI SHUTTER DAMPER	
	OBD OPPOSED BLADE DAMPER	
	PC PRIME COAT	

SYMBOL	TYPE	MODEL	FRAME	DAMPER	FINISH	REMARKS
A	SUPPLY	TITUS FBI–20	LAYIN	OBD	BWE	2FT, 6” NECK
B	RETURN	TITUS PAR	SURF MTD	OBD	BWE	24x24 SEE NECK SCHEDULE
C	RETURN	TITUS 50F–SS	SURF MTD	OBD	BWE	SEE PLANS
D	SUPPLY	TITUS OMNI	SURF MTD	OBD	BWE	24X24 MODULE, UNLESS OTHERWISE NOTED, SEE NECK SCHEDULE
D	SUPPLY	TITUS JSAL	SURF MTD	OBD	BWE	12X6 MODULE

*PER ARCH FLOOR PLANS, WOOD GRILLES TO MATCH FLOORS
**PROVIDE HEAVY DUTY CORE IN ALL FLOOR APPLICATIONS, CORDINATE LOCATIONS OF ALL DIFFUSERS, REGISTERS, GRILLES AND LOUVERS WITH ARCH PRIOR TO INSTALL

EXHAUST FAN SCHEDULE

UNIT No.	MODEL	AREA SERVED	CFM	S.P. IN W.G.	FPM	FAN RPM	DRIVE	MOTOR				REMARKS
								HP	RPM	VOLT	PHASE	
TEF–1	Panasonic FV–05–11VK	TOILET RMS	80	0.10	–	659	DD	16.1W	1205	120	1	NOTE 1
TEF–2A,2B	Panasonic FV–11–15VK	Toilet RMS	130,150	0.5	–	832	DD	21.7W	904	120	1	NOTE 1
EF–1	Greenheck CUBE300	TUNNEL	5559	0.2	–	402	BD	0.5HP	402	460	3	NOTE 2

NOTE 1: WALL SW, ROOF CAP,INSULATED DAMPER & PROVIDE FABRIC FLEX CONNECTION FOR THERMAL BREAK AT EXTERIOR PENETRATION,WIRED TO TIMER
NOTE 2: BDD, BIRDSCREEN, DS,ROOFCURB, SPEED CONTROL, VIBRATION ISOLATION,
NOTE 2: ISOLATORS, MBD, TIED TO CO, DS, WALL CAP/LOUVER

CABINET/UNIT HEATER SCHEDULE

LFV – LOUVER FIN (VERTICAL) LFH – LOUVER FIN (HORIZONTAL)			H – HORIZONTAL TYPE P – PROTECTION TYPE				FG – FAN GUARD LCD – LOUVER CONE DIFFUSER			
UNIT No.	UNIT DESCRIPTION	LOCATION	MOTOR				TOTAL KW	FINAL AIR TEMP.	CFM @ FINAL AIR TEMP.	REMARKS
			HP	RPM	VOLT	PHASE				
ECH–1	MARKEL F3422	VARIES	9.6A	1400	208	1	2.0	–	245	(1) (2) (4)
ECH–2	MARKEL UH Series	VARIES	9.1	–	480	3	5	–	400	(1) (2) (4) WALL BRACKET
ECH–3	BROAN 124	VARIES	12.5A	–	120	1	1.5	–	–	(1) (2) (4)*, PROVIDE RECESSED HOUSING, LOW

- ① UNIT MTD. THERMOSTAT.
② UNIT MTD. DISCONNECT SW
- ③ 4–WIRE SERVICE
④ LOW–VOLTAGE CONTACTOR
- MCFS–MIN. CIRCUIT FUSE SIZE
FLA–FULL LOAD AMP
*CORD COLOR W/ARCH

UNIT HEATERS SHALL BE INSTALLED IN ACCORDANCE WITH THE LISTING AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. SUSPENDED TYPE HEATERS SHALL BE SUPPORTED BY ELEMENTS TAHT ARE DESIGNED TO ACCOMMODATE THE WEIGHT AND DYNAMIC LOADS. HANGERS AND BRACKETS SHALL BE OF NON–COMBUSTIBLE MATERIAL. IMC 2012 SECTION 920

ROOFTOP UNIT SCHEDULE

TAG RTU–	LOCATION	SUPPLY AIR DATA				POWER EX. DATA		COOLING COIL DATA						HEATING COIL DATA		ELECTRICAL DATA				MODEL	REMARKS
		CFM	O.A.	ESP	BHP	CFM	ESP	EAT/DB	EAT/WB	LAT/DB	LAT/WB	TMBH	SMBH	NOM.CAP. TON	INP/OUT [MBH]	MCA	MOCP	VOLT	PH		
RTU–1	ROOF	1750	200	0.5	1.11	2000	0.25	95	77	55.2	53.5	58.5	47.2	5	115/93	30	45	208	3	Carrier 48TC06	SEE NOTES 1

NOTE 1: COOLING CAPACITY AT 95F AMBIENT, ASHRAE 90.1 COMPLIANT, GAS FIRED, FILTER INDICATOR, CO2 CONTROLS, MODULATING CENTRIFUGAL POWER EXHAUST, SS DRAIN PAN, DISCONNECT SWITCH, CONVENIENCE OUTLET. 7–DAY PROGRAMMABLE T–STAT., VFD CONTROLLER, PROVIDE ECONOMIZER IN ACCORDANCE W SECTION C403.3, ECONOMIZER FAULT DETECTION PER SECTION C403.2.4.7, PROVIDE POWERED CONVENIENCE OUTLET

MAKEUP AIR UNIT SCHEDULE

TAG	LOCATION	SUPPLY AIR DATA		HEATING COIL DATA		TEMPERATURE		GAS. DATA			ELECTRICAL DATA				WEIGHT [LBS]	MODEL	REMARKS
		CFM	TESP	INP/OUT [MBH]	RISE [°F]	INLET [°F]	SUPPLY PRESSURE	INLET	FLA	HP	VOLT	PH					
MAU-1	ROOF	5559	0.3	1200/1104	160	-10	NG	2PSI	1 1/4NPT	6	3	460	3	1035	CAMBRIDGE S1200	SEE NOTES 1	

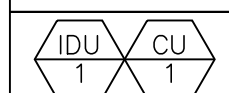
NOTE 1: RAINHOOD WITH INTEGRAL INLET BIRD SCREEN, TWO POSITION MOTORIZED DISCHARGE DAMPER, INSULATED DOWNTURN WITH TURNING VANES, DIRECTIONAL ELBOWS – QUANTITY 3, 24” MOUNTING, CURB WITH COUNTERFLASHING, 12” MOUNTING RAIL, 12” ADJUSTABLE MOUNTING STANDS, CAMBRIDGE ENGINEERING STAINLESS STEEL BURNER, HIGH PRESSURE REGULATOR PROVIDED (MUST BE VENTED 15' FROM INTAKE), EDL GAS CONTROLS, DISCHARGE TEMPERATURE DIAL IN HEATER, *INTEGRAL NON–FUSED DISCONNECT SWITCH, PREMIUM EFFICIENCY ODP MOTOR WITH ADJUSTABLE SHEAVES, INTEGRAL MOTOR STARTER WITH THERMAL OVERLOADS, REMOTE CONTROL STATION INCLUDING:– ELECTRONIC SETBACK THERMOSTAT, DIRECT FIRED ASHRAE 90.1 COMPLIANT. S/S DIRECTIONAL ELBOWS, 50” SS DISCHARGE DUCT. ECONOMIZER FAULT DETECTION PER SECTION C403.2.4.7. PROVIDE POWERED CONVENIENCE OUTLET

BOILER SCHEDULE

TAG	MANUFACTURER & MODEL No.	BOILER TYPE	GAS TYPE	INLET GAS PRES. IN.	CAPACITY INPUT (MBH)	CAPACITY OUTPUT (MBH)	OPER. EFF. (%)	EWT (°F)	LWT (°F)	MAX FLOW RATE (GPM)	MAX P.D. (FT.)	MAX WORKING PRES. (PSI)	VOLTAGE/ PHASE	AMPS	REMARKS
B–1	LOCHINVAR FTX600	CONDENSING	NG	1	600	589	98	180	160	59	4.4	80	120	<12	SEE NOTE1

NOTE 1: STAINLESS STEEL HEAT EXCHANGER, FLOW SW, LOW WEAR CUTOFF W/ MANUAL RESET AND ST, MODULATING BURNER W 5:1 TURNDOWN, 50PSI RELIEF VALVE, AUTOMATIC RESET LIMIT, LOW NOx OPERATION, LOW GAS PRESSURE OPERATION, OUTDOOR RESET, PUMP RELAY W/ FREEZE PROTECTION, LOW WATER FLOW INDICATION, SIDEWALL VENT TERMINALS, ON/OFF SW, CONTACTS ON ANY FAILURE, CONDENSATE NEUTRALIZATION KIT, SMART SYSTEM CONTROL PACKAGE. BOILER RECIRCULATING PUMP PROVIDED BY MANUFACTURER. (4”ø PVC CAI & EA)

MISCELLANEOUS EQUIPMENT SCHEDULE

TAG	DESCRIPTION	SPECIFICATION
	MINI SPLIT	MITSUBISHI MINI SPLIT PLA–A36EA7, PUY–A36NKA7, DS, COOLING ONLY UNIT, 208/230V, 1PH, 2MCA (INDOOR), 25/31 MCA/MOCP (OUTDOOR) WIRED PROGRAMMABLE TSTAT, CORD CONDENSATE WITH PLUMBER. IOSLATION HANGERS, OUTDOOR STAND. LOCATE IDU ACROSS FROM ELECTRICAL PANEL, PROVIDE WIND BAFFLES FOR COOLING DOWN TO –40F

FOR TYPE B/D DIFFUSER:

CFM RANGE	NECK SIZE		TOTAL PRESSURE	REMARKS
	SQUARE	ROUND		
50–100	6” x 6”	6”ø	0.04	①
100–200	9” x 9”	8”ø	0.04	①
200–300	10” x 10”	10”ø	0.04	①
300–450	12” x 12”	12”ø	0.04	①
500–750	15” x 15”	14”ø	0.04	①
500–1000	18” x 18”	16”ø	0.04	①

- ① DIFFUSER SHALL BE LAY–IN CEILING TYPE. COORDINATE WITH DIFFUSER SCHEDULE.

GENERAL MECHANICAL NOTES:

- ALL WORK SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH BUILDING STANDARDS AND ALL APPLICABLE CODES.
- MEDIUM/LOW PRESSURE DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST SMACNA STANDARDS.
- PROVIDE MANUAL DAMPER ON ALL LOW PRESSURE SUPPLY BRANCH TAKE–OFF OF DUCTWORK.
- ALL DUCT SIZES SHOWN SHALL BE CLEAR INSIDE DIMENSIONS.
- DIFFUSERS, REGISTERS ARE AS SCHEDULED IN THE DRAWING. CONTRACTOR TO VERIFY AND COORDINATE WITH ARCHITECT TYPE OF CEILING TO DETERMINE FRAME TYPE.
- BLANK–OFF WITH BLACK PAINTED PANEL WHERE SHOWN. DO NOT PAINT EXPOSED DUCTS OR REGISTERS.
- PROVIDE UL APPROVED FIRE DAMPERS. PROVIDE UL APPROVED FIRE DAMPERS IN ALL DUCT PENETRATIONS THRU FIRERATED ASSEMBLIES WHETHER INDICATED OR NOT.
- FLEXIBLE DUCTWORK:NOT TO BE USED
- PROVIDE LINNING ON ALL SUPPLY AND RETURN AIR DUCTWORK AT A MIN. OF 15’–0” FROM THE HEAT PUMPS/FURNACES.
- INSULATE ALL DUCTWORK LOCATED IN UNCONDITIONED SPACES. PER IECC C403.2.9
- ALL LONGITUDINAL AND TRANSVERSE JOINTS, SEAMS AND CONNECTIONS IN METALLIC AND NONMETALLIC DUCTS SHALL BE CONSTRUCTED AS SPECIFIED IN SMACNA HVAC DUCT CONSTRUCTION STANDARDS.–METAL AND FLEXIBLE AND NAWA FIBROUS GLASS DUCT CONSTRUCTION STANDARDS. ALL JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS AND CONNECTIONS IN DUCTWORK SHALL BE SECURELY FASTENED AND SEALED WITH WELDS, GASKETS, MASTICS (ADHESIVES), MASTIC–PLUS–EMBEDDED–FABRIC SYSTEMS, LIQUID SEALANTS OR TAPES. CLOSURE SYSTEMS USED TO SEAL DUCTWORK LISTED AND LABELED IN ACCORDANCE WITH UL 181A SHALL BE MARKED “181A–P”FOR PRESSURE–SENSITIVE TAPE, “181 A–M”FOR MASTIC OR “181 A–H”FOR HEAT–SENSITIVE TAPE. CLOSURE SYSTEMS USED TO SEAL FLEXIBLE AIR DUCTS AND FLEXIBLE AIR CONNECTORS SHALL COMPLY WITH UL 181B AND SHALL BE MARKED “181B–FX”FOR PRESSURE–SENSITIVE TAPE OR “181B–M” FOR MASTIC. DUCT CONNECTIONS TO FLANGES OF AIR DISTRIBUTION SYSTEM EQUIPMENT SHALL BE SEALED AND MECHANICALLY FASTENED, MECHANICAL FASTENERS FOR USE WITH FLEXIBLE NONMETALLIC AIR DUCTS SHALL COMPLY WITH UL 181B AND SHALL BE MARKED “181B–C.”CLOSURE SYSTEMS USED TO SEAL METAL DUCTWORK SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. UNLISTED DUCT TAPE IS NOT PERMITTED AS A SEALANT ON ANY DUCT.

EXCEPTION: CONTINUOUSLY WELDED AND LOCKING–TYPE LONGITUDINAL JOINTS AND SEAMS IN DUCTS OPERATING AT STATIC PRESSURES LESS THAN 2 INCHES OF WATER COLUMN (500 PA) PRESSURE CLASSIFICATION SHALL NOT REQUIRE ADDITIONAL CLOSURE SYSTEMS.
- DUCTS SHALL BE SUPPORTED AT INTERVALS NOT TO EXCEED 10 FEET AND SHALL BE IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS–METAL AND FLEXIBLE. FLEXIBLE AND OTHER FACTORY–MADE DUCTS SHALL BE SUPPORTED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- ALL EQUIPMENT AND APPLIANCES, INCLUDING THE AIR CONDITIONER, WATER HEATER AND FURNACE, SHALL BE INSTALLED IN ACCORDANCE WITH THEIR LISTINGS AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. A COPY OF THE MANUFACTURER'S INSTALLATION INSTRUCTIONS MUST BE PROVIDED ON SITE AT THE TIME OF INSPECTION.
- ALL SYSTEMS >4.5 TONS REQUIRE ECONOMIZER FAULT DETECTION AND DIAGNOSIS. PER IECC C403.2.4.7
- INSULATE ALL PIPING PER TABLE IECC C403.2.1
- SYSTEM ADJUST AND BALANCE PROVIDE TEST AND BALANCE REPORT PER IECC C408.2.5.3. PROVIDE REPORT TO THE MUNICIPALITY PRIOR TO THE FINAL INSPECTION FOR THEIR FILE. ALSO PROVIDE TO THE FIELD INSPECTOR AT TIME OF FINAL INSPECTION.

PERMIT NOTES:

- EQUIPMENT NOISE LEVEL NOT TO EXCEED 55 DB AT THE LOT LINE.
- ALL EXPANSION VALVES, DEVICES AND CONNECTIONS SHALL BE REMOVED FROM THE AIRSTREAM OF ALL MECHANICAL EQUIPMENT AS PER LOCAL CODES.
- THE MECHANICAL CONTRACTOR SHALL GUARANTEE, AS APPLICABLE, THAT THE PLENUM CHAMBER USED FOR RECIRCULATION OF AIR WILL BE OF TIGHT CONSTRUCTION AND THAT ALL SOURCES OF AIR CONTAMINANTS FROM TRAPS, SOIL STACKS, DOWN SPOUTS, VENTS. EXHAUST DISCHARGES AND OTHER SOURCES WILL BE ENCLOSED SO THAT NO CONTAMINATED AIR WILL BE RECIRCULATED.
- THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL A SAFETY RELIEF VALVE DESIGNED TO RELIEVE AND/OR PREVENT THE BUILDUP OF EXCESSIVE REFRIGERANT PRESSURE WITHIN THE DIRECT EXPANSION SYSTEMS. THE PRESSURE RELIEF DEVICE SHALL BE SET AT 400 PSI AND SHALL BE INSTALLED ON THE HIGH PRESSURE SIDE AT THE DISCHARGE OF THE COMPRESSOR AND UPSTREAM OF THE COMPRESSOR SHUTOFF (STOP) VALVE.
- ALL FRESH AIR INTAKE OPENINGS SHALL BE A MINIMUM OF 10’–0” AWAY FROM ANY EXHAUST OR POINT OF CONTAMINATE DISCHARGE.
- ALL DUCTWORK SHALL BE IN ACCORDANCE WITH “SMACNA” LOW VELOCITY DUCT MANUAL AND “ASHRAE” RECOMMENDATIONS.
- THE EQUIPMENT IN THE VENTILATING AND HEATING SYSTEM SHALL BE SUFFICIENT TO MAINTAIN 72 DEGREES F WITHIN THE AREA SERVED AT ALL TIMES WHEN 33–1/3 PERCENT OF CODE REQUIRED AIR IS SUPPLIED FROM OUTDOORS AT –10 DEGREES F.
- VOLUME DAMPERS OF LOCKING TYPE SHALL BE PLACED IN EACH FORCED WARM AIR RUN.

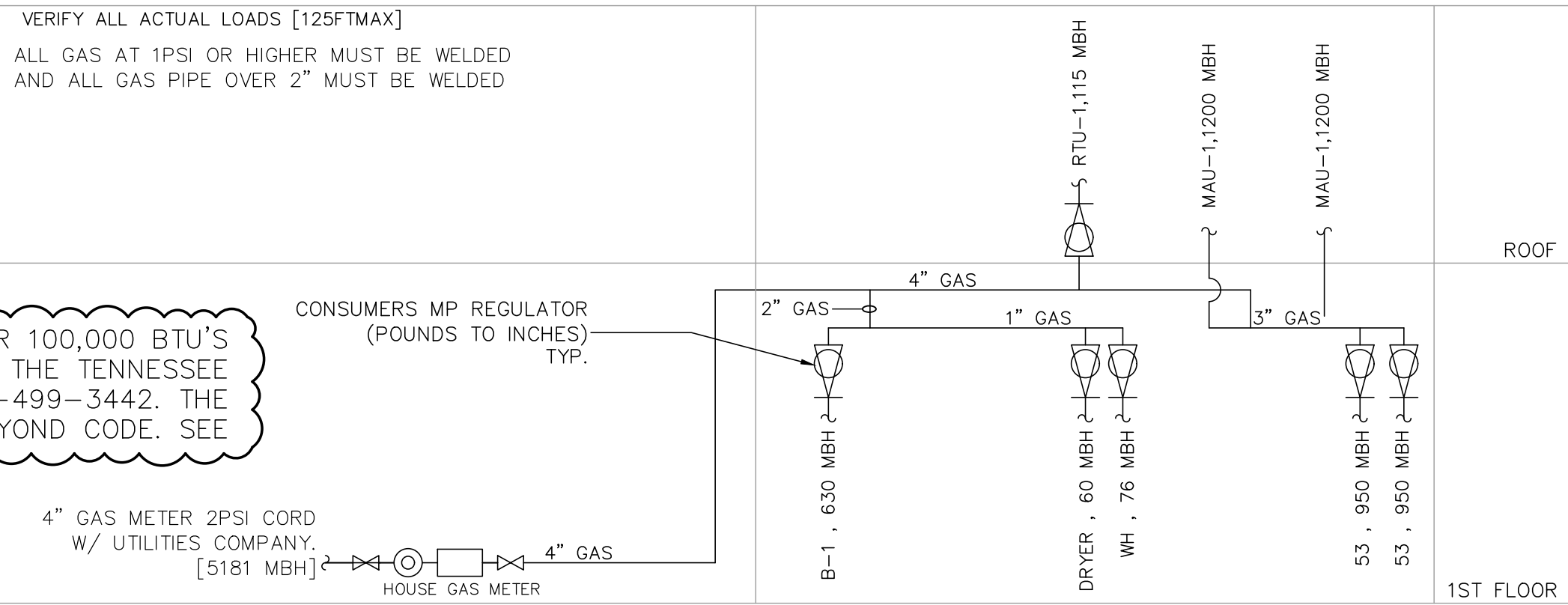
VENTILATION NOTES:

- CLEARANCES FOR FORCED AIR FURNACES MUST CONFORM TO MANUFACTURERS REQUIREMENTS (OR SHOW CLEARANCES ON THE DRAWINGS).
- ALL DUCTWORK MUST BE GALVANIZED STEEL OR STAINLESS STEEL.
- SMOKE DETECTORS AND CARBON MONOXIDE DETECTORS ARE SHOWN ON ELECTRICAL DRAWING(S).
- IF THE PROJECT INCLUDES A PLENUM CEILING OR FLOOR: THE CONTRACTOR SHALL GUARANTEE THAT THE PLENUM CHAMBER USED FOR RECIRCULATION OF AIR WILL BE OF TIGHT CONSTRUCTION AND THAT ALL SOURCES OF AIR CONTAMINATION FROM TRAPS, SOIL STACKS, DOWNSPOUTS, VENTS AND ALL OTHER SOURCES OF CONTAMINATION WILL BE ENCLOSE SUCH THAT NO CONTAMINATED AIR WILL BE RECIRCULATED.

GENERAL COORDINATION NOTES:

- EACH TRADE CONTRACTOR SHALL VISIT CONSTRUCTION SITE PRIOR TO BIDDING, EXAMINE SCOPE AND CONDITIONS OF OTHER CONTRACT WORK, EXAMINE EXISTING CONDITIONS AND ALL INTERFERENCES AND REQUIRED COORDINATION IN ORDER TO INCLUDE EFFECT OF SAID CONDITIONS IN THEIR BID. BID DRAWINGS ARE DIAGRAMMATIC AND DO NOT INDICATE ALL REQUIRED RELOCATIONS, OFFSETS, CHANGE IN ASPECT RATIOS, OR ROUTING CHANGES REQUIRED TO INTEGRATE WORK WITH ALL OTHER CONDITIONS OR TRADES. WORK INSTALLED BEFORE COORDINATING SO AS TO CAUSE INTERFERENCES WITH OTHER TRADES SHALL BE REMOVED AND REWORKED WITHOUT COST TO OWNER. COST OF PROVIDING SUCH RELOCATIONS, OFFSETS, SIZE, CHANGES, REROUTING, ETC. SHALL BE INCLUDED IN BID. CODE CONFORMING SCALED (1/4”) COORDINATED DRAWINGS SHALL BE PREPARED BY EACH TRADE TO FACILITATE AND VERIFY FIT AND CONGRUENCE OF THEIR INSTALLATION WITH OTHER TRADES.
- WHERE ADDITIONAL DETAILS, DIAGRAMS, EQUIPMENT DATA, AND ISOMETRICS ARE REQUIRED BY BUILDING DEPARTMENT OR CODE AUTHORITIES FOR PERMIT OR APPROVAL, CONTRACTOR SHALL PROVIDE SAME AT NO ADDITIONAL COST.
- BUILDING PLANS SHOWN ARE COMPILED FROM SOURCES BELIEVED TO BE ACCURATE. HOWEVER, THE INFORMATION SHOWN ON THESE PLANS IS SCHEMATIC AND CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PROPER DIMENSIONS, SIZES, SYSTEM VOLTAGES, QUANTITIES AND EXTENT OF WORK.
- THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL, STRUCTURAL, PLUMBING, FIRE PROTECTION, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR COORDINATION AND EXTENT OF THE WORK OF THE VARIOUS TRADES AND IMPACT ON THEIR WORK.
- WITH THE APPROVAL OF THE ARCHITECT AND WITHOUT ADDITIONAL COST TO THE OWNER, MAKE MODIFICATIONS IN THE WORK, INCLUDING REROUTING AS REQUIRED BY INTERFERENCE WITH STRUCTURAL, GENERAL AND WORK OF OTHER TRADES FOR PROPER EXECUTION OF THE WORK.
- REFER TO THE ARCHITECTURAL DRAWINGS, FIELD CONDITIONS AND DETAILS FOR EXACT LOCATION OF PARTITIONS.
- CUTTING AND PATCHING FOR THEIR WORK SHALL BE PERFORMED BY EACH TRADE CONTRACTOR UNLESS NOTED OTHERWISE.

GAS WATER HEATERS AND BOILERS OVER 100,000 BTU'S WILL ALSO NEED TO BE INSPECTED BY THE TENNESSEE STATE BOILER INSPECTOR, TIM HOLT 615–499–3442. THE STATE HAS SPECIFICATIONS BEYOND CODE. SEE



Gas Distribution Building

SCALE: NONE

GENERAL GAS PIPING NOTES:

- FUEL GAS PIPING AND CONTROLS MUST CONFORM TO THE INTENTIONAL FUEL GAS CODE(IFGC), CHAPTER 4 (WITH MODIFICATIONS AS NOTED IN ARTICLE 14).
- GAS PIPING MUST BE SIZED IN ACCORDANCE WITH IFGC TABTES 402.(1) THROUGH 402.3(34). [IFGC 402.3]
- THE MAXIMUM DESIGN OPERATING PRESSURE FOR GAS PIPING SYSTEMS LOCATED INSIDE BUILDINGS SHALL NOT EXCEED 5 PSIG (SOME EXCEPTIONS ARE NOTED). [IFGC 402.5]
- GAS PIPING MATERIALS MUST CONFORM TO THE GAS PIPING & TUBING MATERIAL MATRIX (IFGC 403 REQUIREMENTS). [IFGC 403]
- PIPING IN CONCEALED LOCATIONS MUST CONFORM TO THIS IFGC 404.3. [IFGC 404.3]
- MINIMUM REQUIRED BURIAL DEPTH FOR UNDERGROUND PIPING SYSTEMS MUST CONFORM TO IFGC 404.9. (MINIMUM 18 INCHES BELOW GRADE). [IFGC 404.9]
- GAS PIPES MUST BE SLOPED AT 1/4 INCH IN EVERY 15 FEET. [IFGC 408.1]
- ALL NEW GAS PIPING SHALL BE TESTED IN ACCORDANCE WITH SECTION 406 OF IFGC. THE SYSTEM SHALL PURGED, VISUALLY AN PRESSURE TESTED. SOAP TESTING IS NOT ACCEPTABLE. MECHANICAL GAUGES USED TO MEASURE TEST PRESSURES, SHALL HAVE A RANGE SUCH THAT THE HIGHEST END OF THE SCALE IS NOT GREATER THAN FIVE (5) TIMES THE TEST PRESSURE. THE TEST SHALL BE WITNESSED BY THE LOCAL INSPECTOR AND REPORT PROVIDED.

GAS PIPING GREATER THAN 2” INSIDE DIAMETER OR CARRYING MORE THAN 5 POUNDS(PSIG) SHALL BE SCHEDULE 40 STANDARD WELD FITTINGS.

ALL FUEL GAS PIPING MATERIALS, SIZES AND CONTROLS SHALL CONFORM TO THE NATIONAL FUEL GAS CODE (IFGC).

PAINT ALL GAS PIPING THAT IS EXPOSED TO THE ELEMENTS.

METALLIC PIPE OR TUBING EXPOSED TO CORROSIVE ACTIONS, SUCH AS SOIL CONDITION OR MOISTURE, SHALL BE PROTECTED IN AN MANNER. ZINC COATING (GALVANIZING) SHALL NOT BE DEEMED ADEQUATE PROTECTION FOR GAS PIPING UNDERGROUND. WHERE DISSIMILAR METALS ARE JOINED UNDERGROUND, AN INSULATING COUPLING OR FITTING SHALL BE USED. PIPING SHALL NOT BE LAID IN CONTACT WITH CINDERS [IFGC 404.11]

THE EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER’S INSTALLATION INSTRUCTIONS. THESE INSTRUCTIONS SHALL BE ON–SITE AND AVAILABLE FOR ALL INSPECTIONS.

HVAC 2018 IMC WITH VILLAGE AMENDMENTS IEC

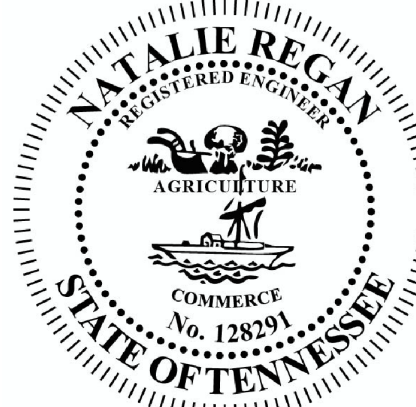
NEW AUTOMATED CARWASH FACILITY

"GRAND WASH"

ALMAVILLE ROAD & GENERAL FORREST
SMYRNA, TN

PERMIT SET - NOT FOR CONSTRUCTION

PROJECT #	2245
DATE:	01.04.23



06.02.23	ISSUED FOR PERMIT REV
04.11.23	ISSUED FOR PERMIT
01.04.23	ZONING SUBMITTAL
12.05.22	ZONING SUBMITTAL

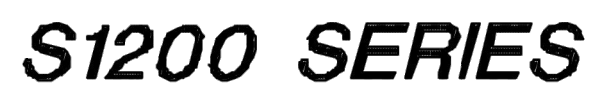
REVISIONS
DRAWN BY: RAM
APPROVED BY: GON / MAM
SCALE: AS NOTED
DESCRIPTION: MECH SCHEDULES, NOTES, & DETAILS
SHEET NO.

M-3.0

NERIO ARCHITECTS
6400 N NORTHWEST HWY
SUITE 4
CHICAGO IL 60631
TEL 847.825.9400

AIR BALANCE SCHEDULE					
TAG	O.A.	R.A.	S.A.	E.A.	PRESSURE
RTU-1	250	1750	1750	250	—
MUA-1	11118	—	—	—	+11118
EF-1	—	—	—	-11118	-11118
TEF	—	—	—	-460	-460
TOTALS	11368	1750	1750	11828	460

TOILET EXHAUST FANS DO NOT RUN CONTINUOUSLY, THE BUILDING IS NEUTRAL



ROOF TOP DIMENSIONAL DRAWING

