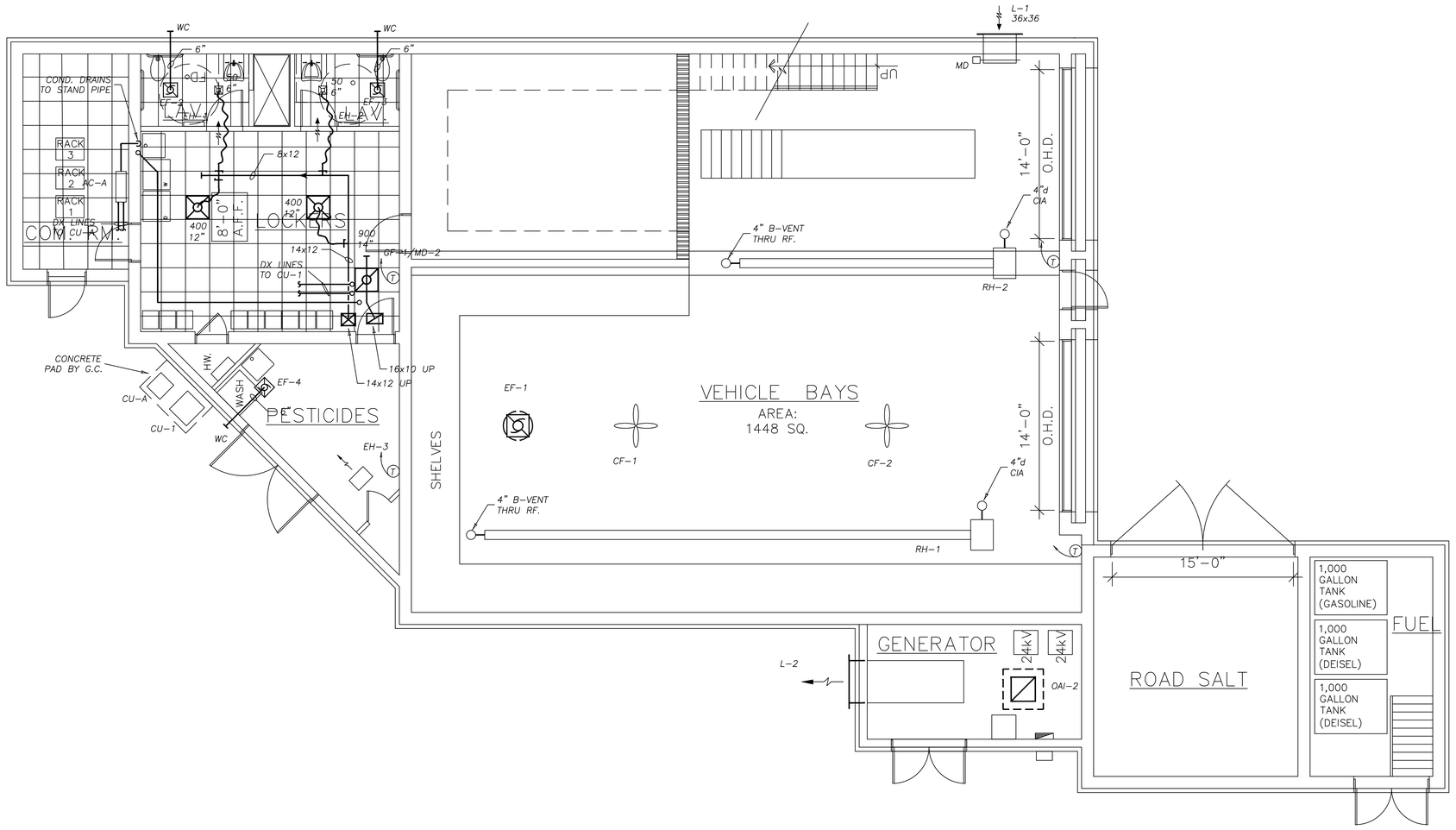

FIRST FLOOR PLAN

MECHANICAL LEGEND

- 24x24 LAY-IN DIFFUSER – TYPE CD-1.
- 24x24 LAY-IN RETURN GRILLE – TYPE RG-1.
- SURFACE MOUNTED DIFFUSER – TYPE CD-2.
- EF — CEILING MOUNTED EXHAUST FAN.
- EF — ROOF MOUNTED EXHAUST FAN.
- OAI — OUTSIDE AIR INTAKE.
- MD — LOUVER WITH MOTORIZED DAMPER
- UNDER CUT DOOR
- TRANSFER AIR
- CD — CONDENSATE DRAIN PIPING
- DX — REFRIGERATION PIPING
- (T) — THERMOSTAT
- ATC — TEMPERATURE CONTROL PANEL
- 12x10 / 10x10 — SHEETMETAL DUCTWORK WITH TRANSITION – SIZE AS SHOWN.
- 10x10 / 12x10 — 45° BRANCH TAKE-OFF WITH MANUAL VOLUME DAMPER
- TAP COLLAR WITH MANUAL VOLUME DAMPER & INSULATED FLEX DUCT – 10 FT. MAX. LENGTH.
- WC — WALL CAP

VENTILATION TABLE–BASED ON INTERNATIONAL MECHANICAL CODE, 2015

ZONE	ROOM NUMBERS	AREA S.F.	AREA O.A. RATE CFM/S.F	CFM 'A'	ZONE POPULATION	PEOPLE O.A. RATE CFM/P	CFM 'P'	REQUIRED CFM 'A' + 'P'	ACTUAL O.A. CFM	O.A. SUPPLIED BY	REQUIRED EXHAUST RATE CFM	REQUIRED EXHAUST CFM	ACTUAL EXHAUST CFM	EXHAUST BY	REMARKS
VEHICLE BAY	---	2000	---	---	---	---	---	---	---	---	0.75/SF	1500	2000	EF-1	
LOCKER	---	340	---	---	---	---	---	---	---	GF-1	0.5/SF	170	200	EF-2,3	TRANSFER AIR
TOILET	---	---	---	---	---	---	---	---	---	---	50/WC	50	100	EF-2	
TOILET	---	---	---	---	---	---	---	---	---	---	50/WC	50	100	EF-3	
PESTICIDE	---	130	---	---	---	---	---	---	---	---	0.5/SF	65	100	EF-4	
LOFT	---	490	0.06	29	---	---	---	29	130	GF-1	---	---	---	---	

HVAC EQUIPMENT SCHEDULE

DESIGNATION	MANUFACTURER	MODEL NUMBER	AIR HANDLING			COOLING			HEATING			ELECTRICAL			FAN HP	WEIGHT LBS.	NOTES	REMARKS
			CFM	S.P.	O.A.	TONS	SEER	EER	MBH IN	MBH OUT	AFUE	VOLT/Ø	MCA	MOCP				
GF-1	LENNOX	G51MP-48C-090	1600	0.7	300	4	---	---	88	83	92%	115/1	---	---	1/2	170		
CU-1	LENNOX	XC15-048-230	---	---	---	4	14.2		---	---	---	208/1	28.4	50	---	350		R-410A
CC-1	LENNOX	CX34-62C-6F	---	---	---	4	---		---	---	---	---	---	---	---	50		UP-FLOW COIL

1. PROGRAMMABLE THERMOSTAT.
2. CONCENTRIC ROOF TERMINATION FOR FLUE AND OUTSIDE AIR INTAKE.

AIR DEVICES SCHEDULE

DESIGNATION	MANUFACTURER	MODEL NO.	TYPE	NECK SIZE	FRAME TYPE	NOTES	REMARKS
CD-1	CARNES	SFTB	SUPPLY DIFFUSER	AS NOTED	24x24, T-BAR	1	FULL LOUVER FACE W/ROUND NECK, STEEL
CD-2	CARNES	SJTB	SUPPLY DIFFUSER	AS NOTED	24x24, T-BAR	1	FULL FACE, ROUND NECK, ADJUSTABLE
RG-1	CARNES	RSLAH	RETURN GRILLE	AS NOTED	24x24 OR 24x48, T-BAR	1	LOUVER FACE, STEEL

1. OFF-WHITE BAKED ENAMEL FINISH.

LOUVER SCHEDULE

DESIGNATION	MANUFACTURER	MODEL NUMBER	TYPE	NOMINAL SIZE	FRAME TYPE	NOTES	REMARKS
L-1	GREENHECK	EDD-401	ALUMINUM LOUVER	36x36	FLANGED	1,2,3	RAIN RESISTANT
L-2							

1. ALUMINUM FINISH.
2. BIRD SCREEN.
3. MOTORIZED DAMPER–120v.

MOTORIZED DAMPER SCHEDULE

MARK	MANUFACTURER	MODEL NUMBER	TYPE	DUCT SIZE	VOLTS	NOTES	REMARKS
ATC	HONEYWELL	MABS-2-2	MASTERTROL PANEL	---	120		
MD-1,2	HONEYWELL	AOBD	OPPOSED BLADE DAMPER	AS NOTED	24		
BD-1	HONEYWELL	SPRD	STATIC PRESS. RELIEF				

REVISIONS

NO.	BY	DESCRIPTION	DATE

GATES ARCHITECTURAL DESIGN INC.

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PROJECT

SOCIETY HILL AT PISCATAWAY

NEW MAINTENANCE BUILDING AT

SOCIETY HILL

550 CHESTERFIELD DRIVE
PISCATAWAY, NEW JERSEY

DATE:	9-26-15
SCALE:	3/16"=1'-0"
DRAWN BY:	DAB
CHECKED:	JAG

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DRAWING TITLE

MECHANICAL FIRST FLOOR PLAN

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Philip A. LaBue, Jr., P.E.
NJ PROFESSIONAL ENGINEER 26265
NJ C.O.A. 24GA28157800

DRAWN BY: APS
CHECKED BY: PAL
PROJECT NO. 15057

CDN 12033101

12033 PROJECT NO.

SHEET M-1 OF