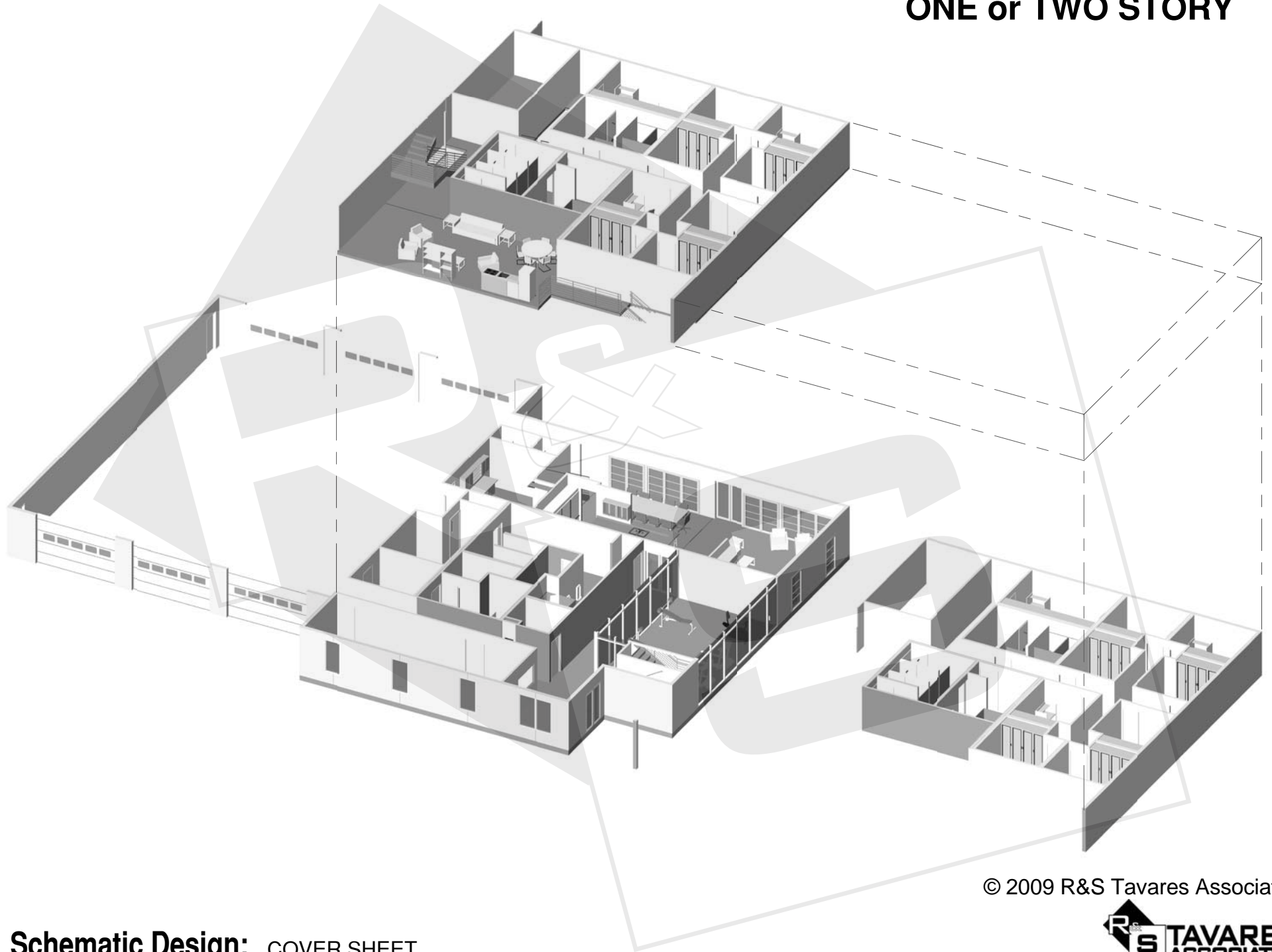


EXPANDABLE MODULAR FIRE STATION

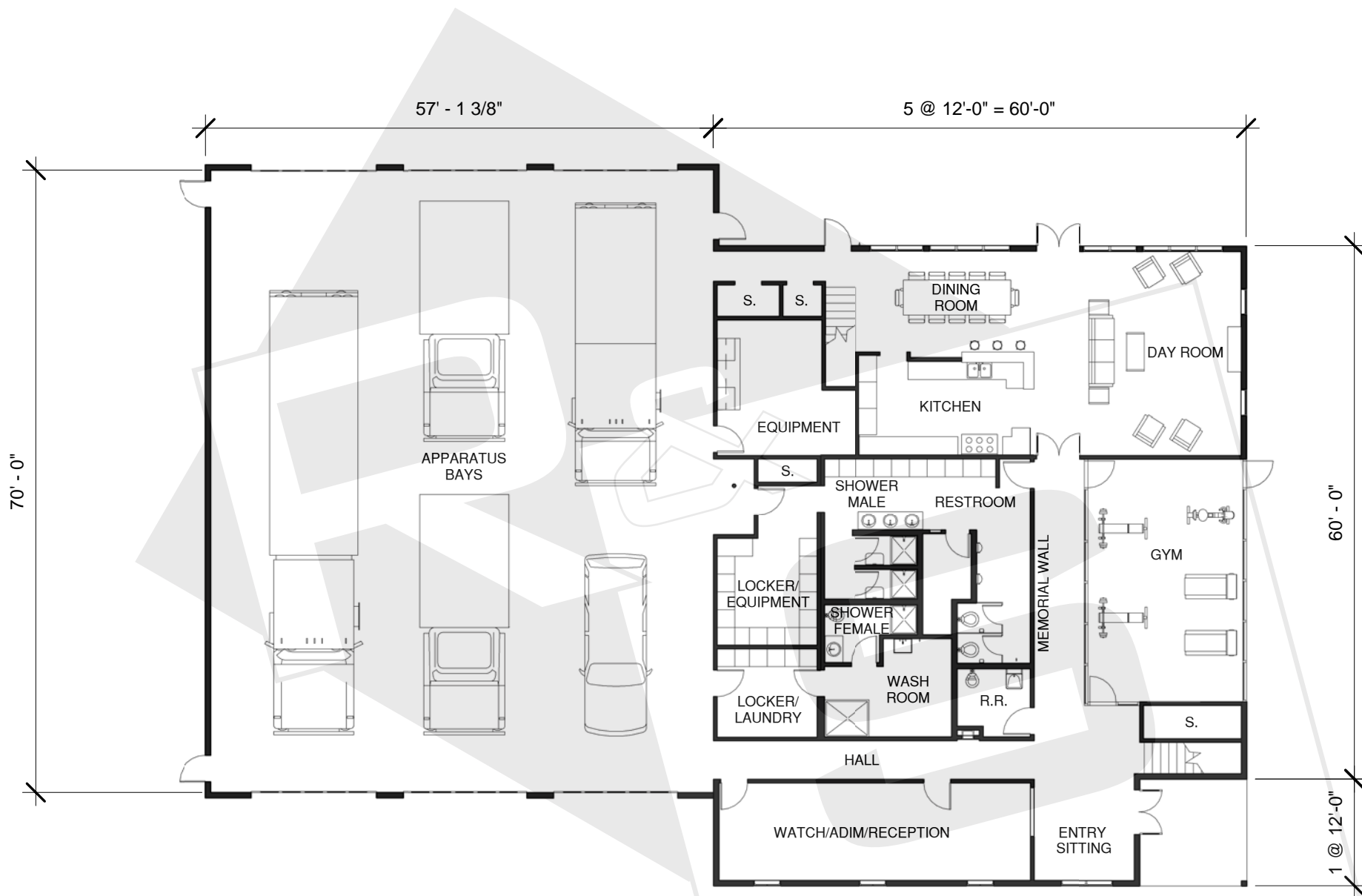
ONE or TWO STORY



© 2009 R&S Tavares Associates



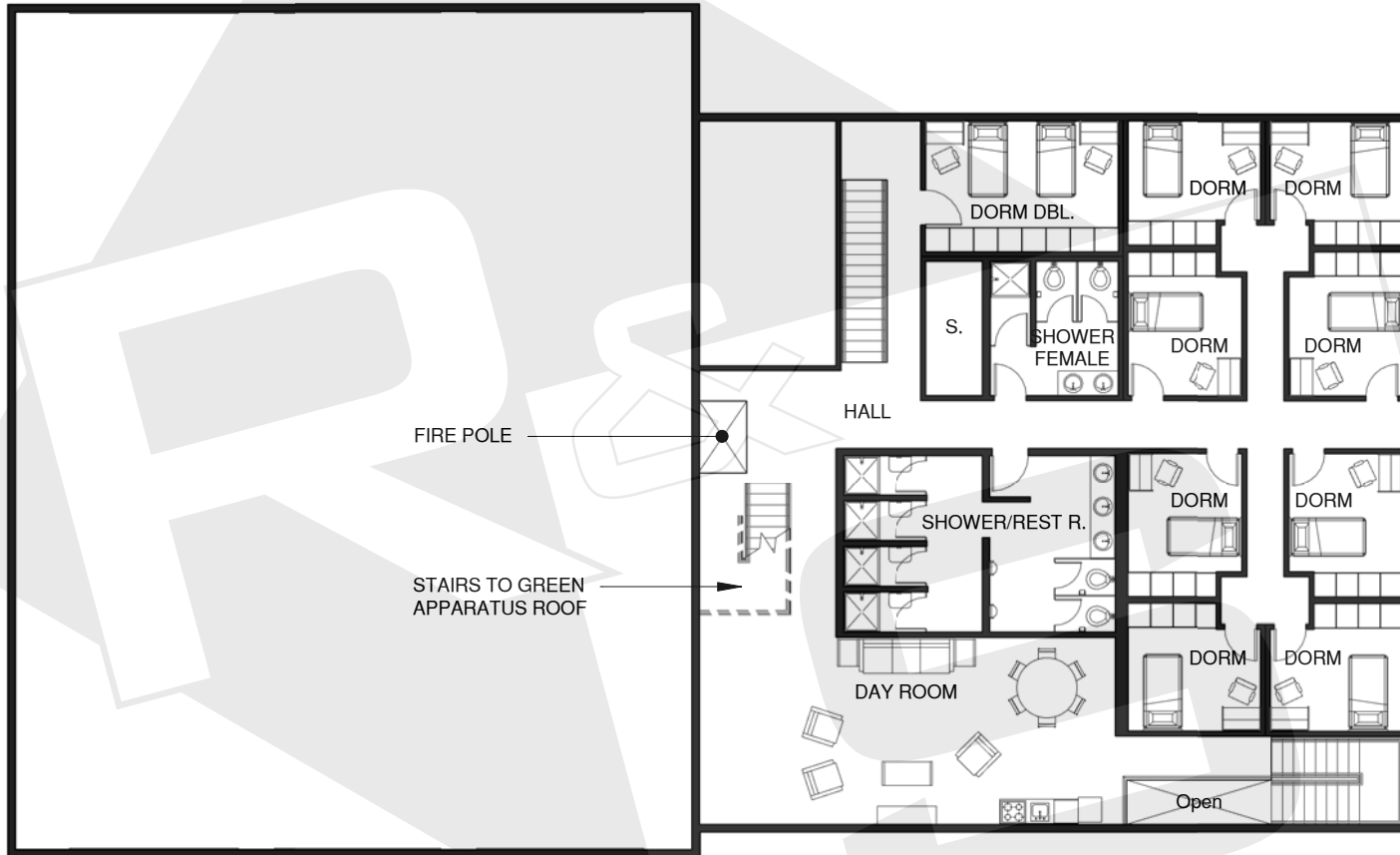
Schematic Design: COVER SHEET



© 2009 R&S Tavares Associates

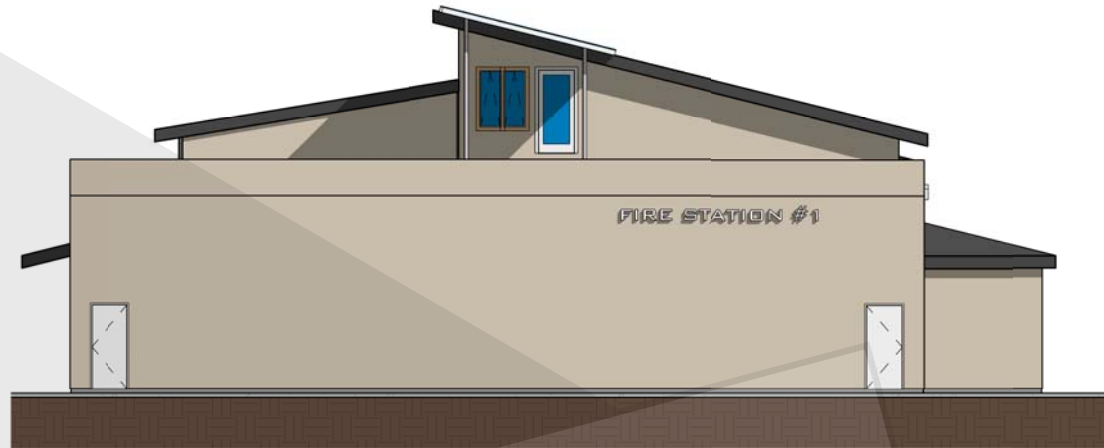
Schematic Design: FIRST FLOOR PLAN - Base Model





© 2009 R&S Tavares Associates

Schematic Design: SECOND FLOOR PLAN - Base Model



SD - Elevation LEFT



SD - Elevation BACK

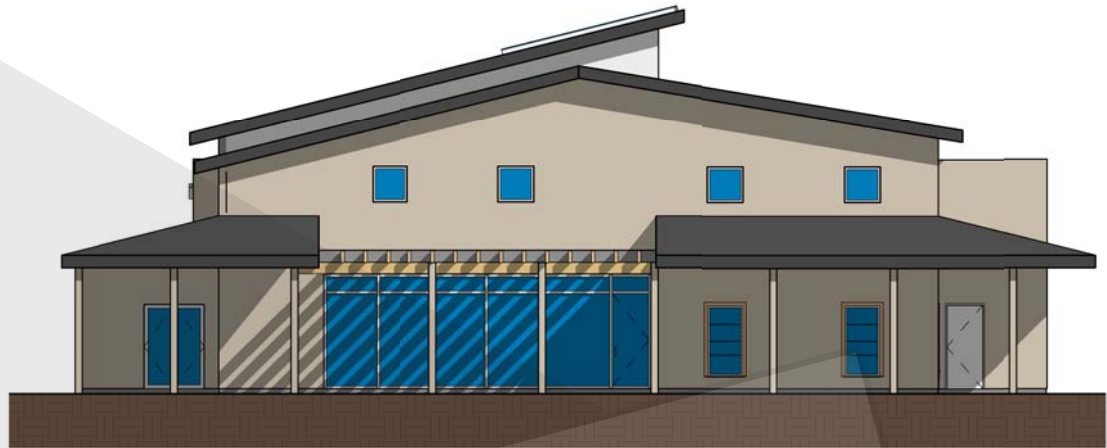
© 2009 R&S Tavares Associates

Schematic Design: BUILDING ELEVATIONS

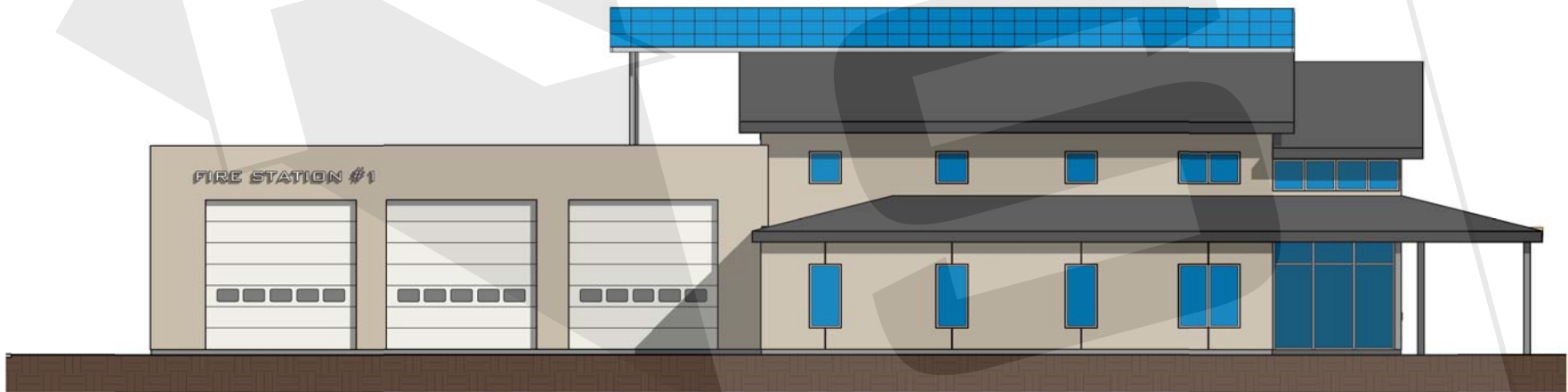
FIRE STATION #1



8/12/2009 5:37:28 PM



SD - Elevation RIGHT



SD - Elevation FRONT

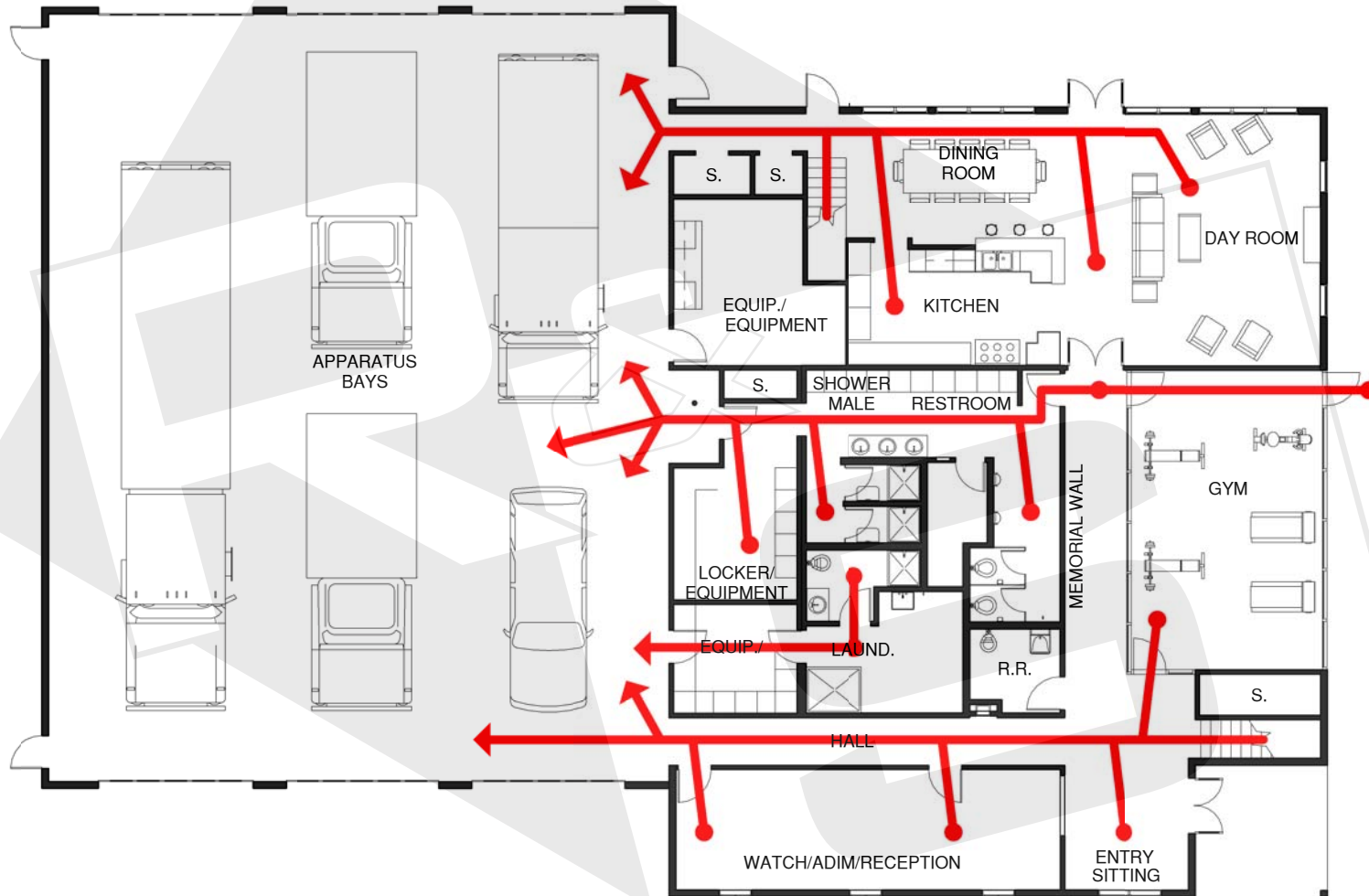
© 2009 R&S Tavares Associates

Schematic Design: BUILDING ELEVATIONS

FIRE STATION #1



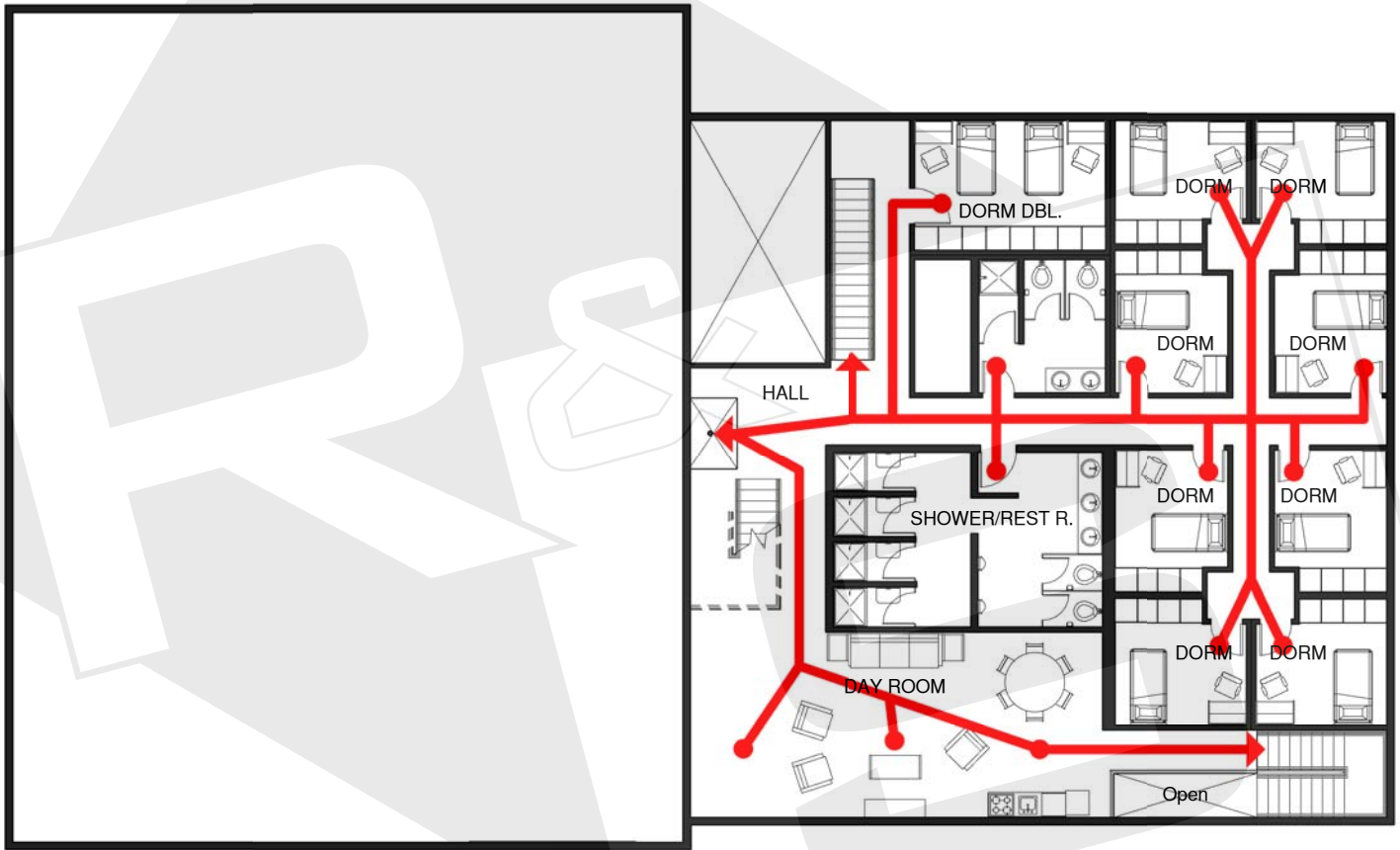
8/12/2009 5:38:58 PM



© 2009 R&S Tavares Associates

Schematic Design: FIRST FLOOR - BASE MODEL - Fire Call circulation





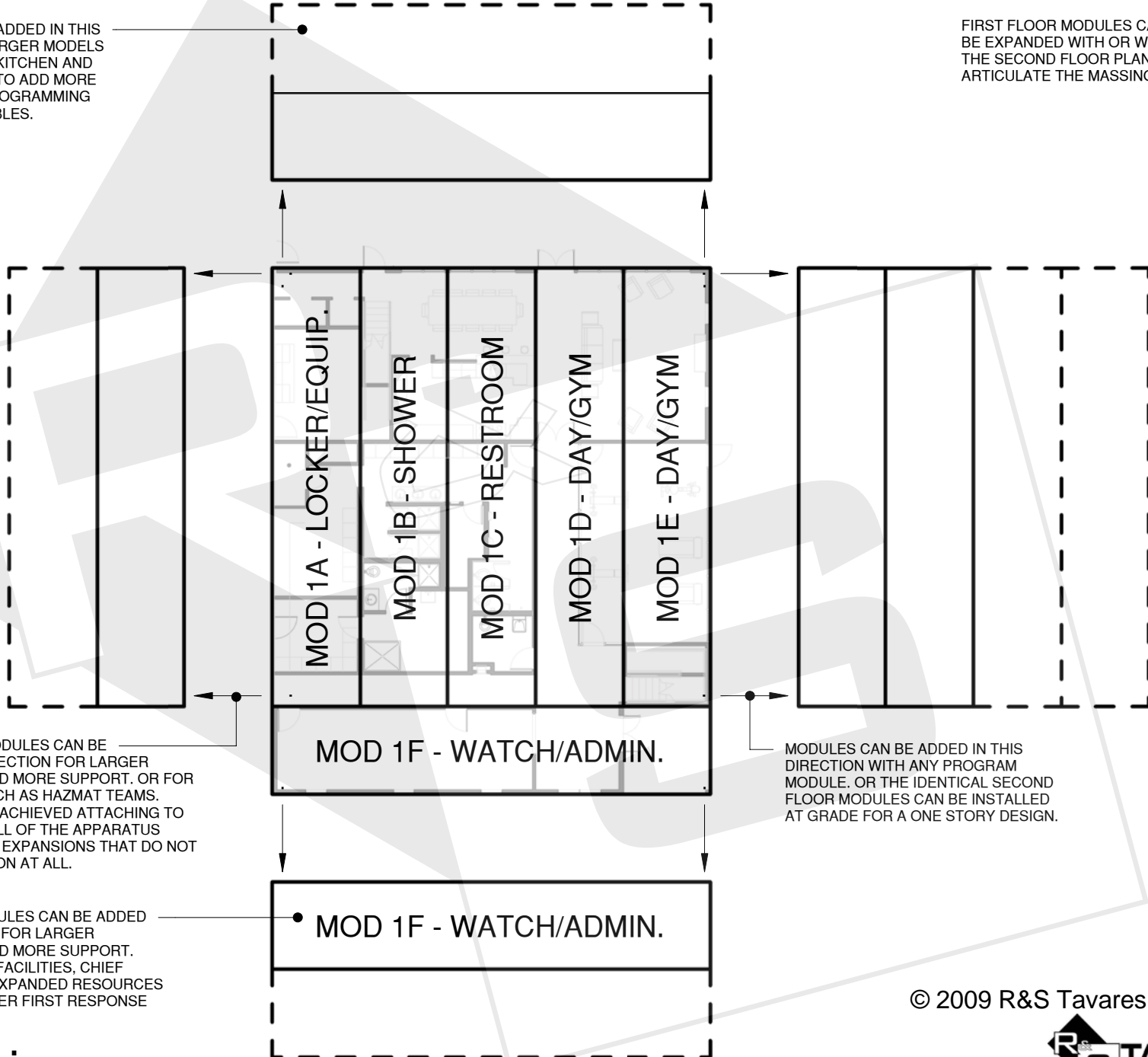
© 2009 R&S Tavares Associates

Schematic Design: SECOND FLOOR - BASE MODEL - Fire Call circulation



MODULES CAN BE ADDED IN THIS DIRECTION FOR LARGER MODELS THAT NEED MORE KITCHEN AND DINING SPACE OR TO ADD MORE RECREATIONAL PROGRAMMING SUCH AS POOL TABLES.

FIRST FLOOR MODULES CAN BE EXPANDED WITH OR WITHOUT THE SECOND FLOOR PLAN TO ARTICULATE THE MASSING.



LOCKER/EQUIP. MODULES CAN BE ADDED IN THIS DIRECTION FOR LARGER MODELS THAT NEED MORE SUPPORT. OR FOR SPECIAL UNITS SUCH AS HAZMAT TEAMS. THIS CAN ALSO BE ACHIEVED ATTACHING TO THE EXTERIOR WALL OF THE APPARATUS BAYS FOR FUTURE EXPANSIONS THAT DO NOT IMPACT THE STATION AT ALL.

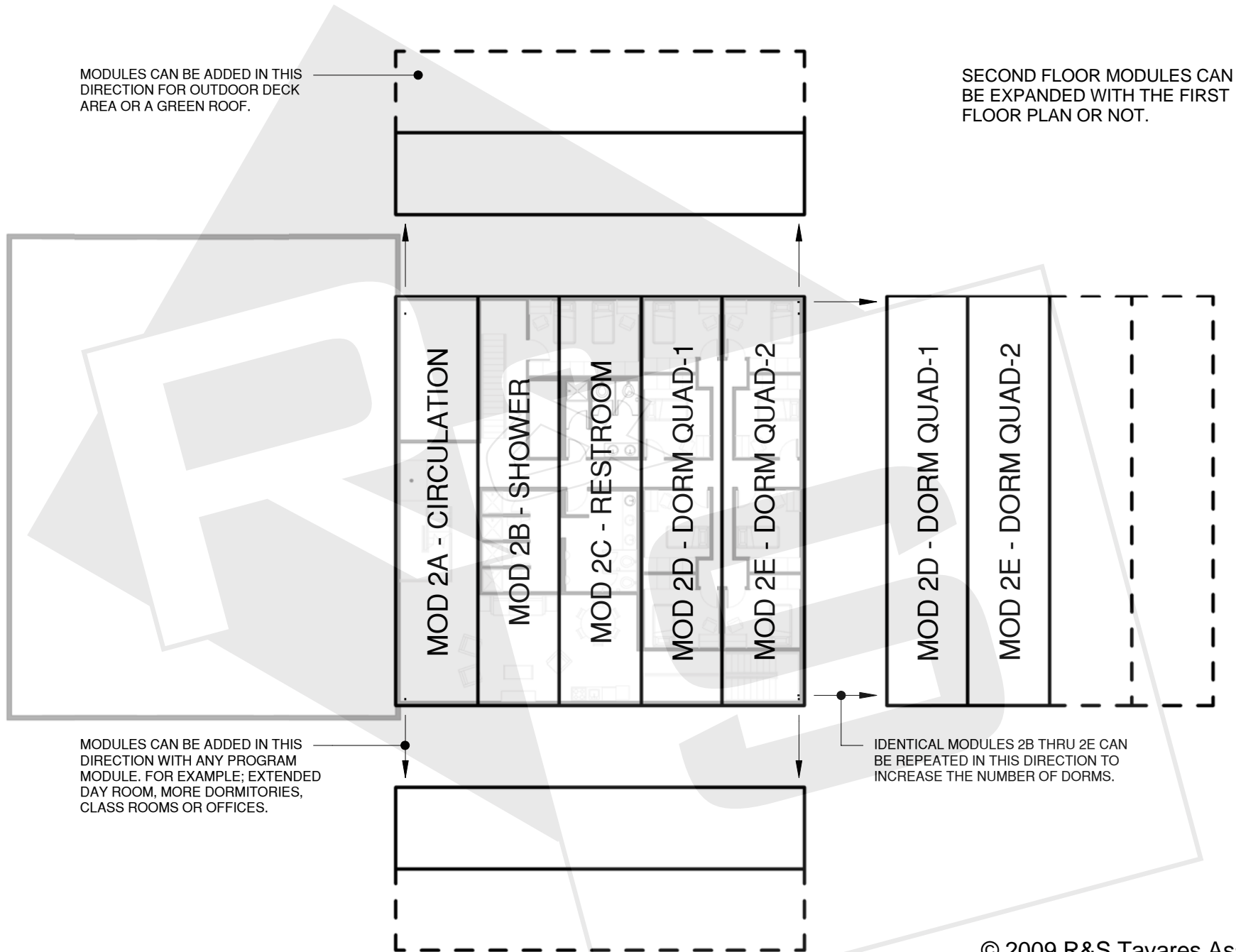
MODULES CAN BE ADDED IN THIS DIRECTION WITH ANY PROGRAM MODULE. OR THE IDENTICAL SECOND FLOOR MODULES CAN BE INSTALLED AT GRADE FOR A ONE STORY DESIGN.

WATCH/ADIM. MODULES CAN BE ADDED IN THIS DIRECTION FOR LARGER MODELS THAT NEED MORE SUPPORT. OR FOR TRAINING FACILITIES, CHIEF OFFICES OR FOR EXPANDED RESOURCES SHARED WITH OTHER FIRST RESPONSE AGENCIES.

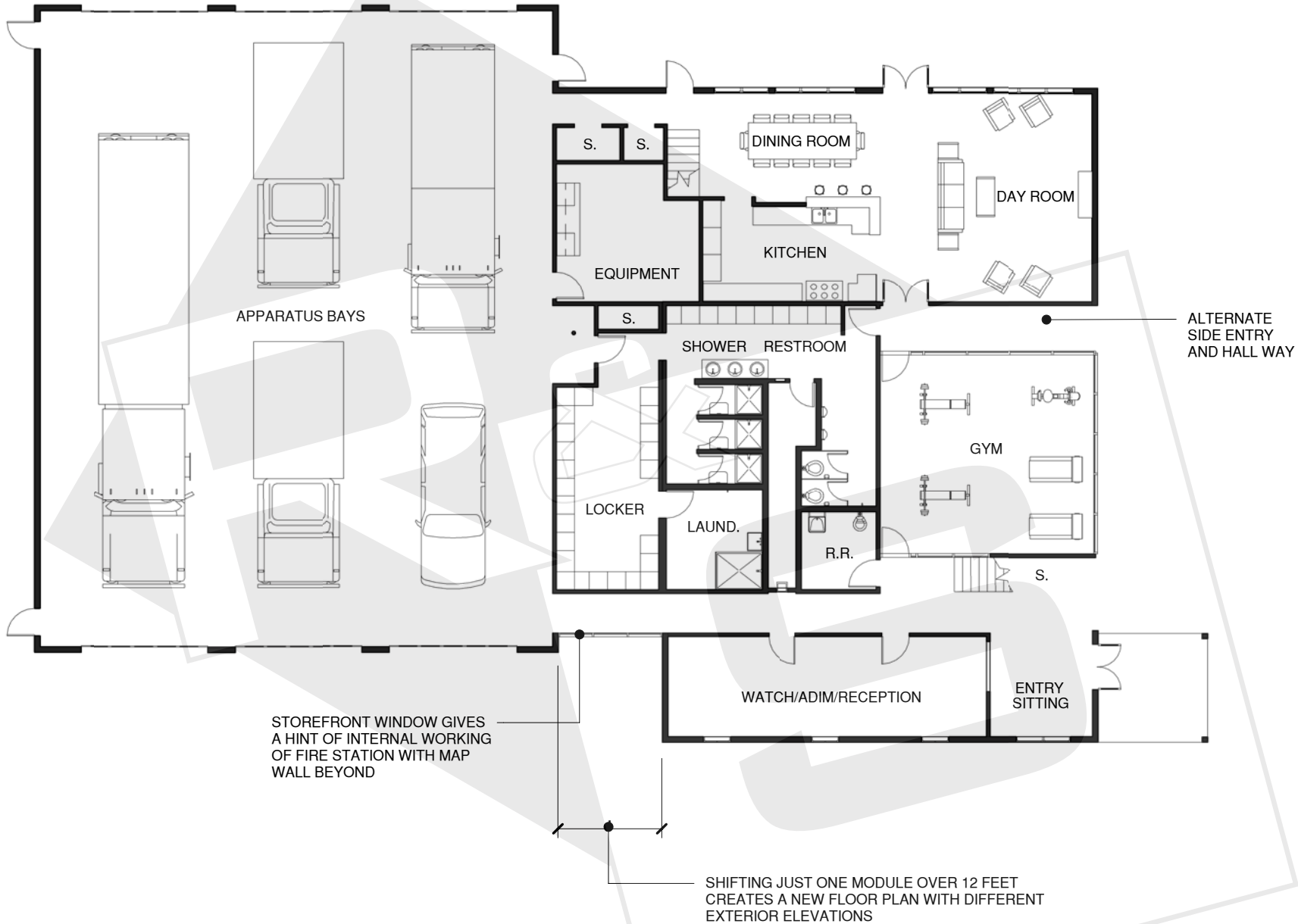
© 2009 R&S Tavares Associates

Schematic Design: FIRST FLOOR PLAN - Model Variation





Schematic Design: SECOND FLOOR PLAN - Model Variation



© 2009 R&S Tavares Associates

Schematic Design FIRST FLOOR PLAN - Front Mod Shift





© 2009 R&S Tavares Associates

Schematic Design: ONE STORY MODEL (2nd FLOOR MODULES @ GRADE)



#	Name	Perim.	A (sf)	Ceil. Ht.	V (cf)	Wall Finish				Floor Finish			Ceil. Finish	Comments	
						N	E	S	W	Field	Accent	Base			
2.0 FIRST FLOOR PLAN															
100	ENTRY	45' - 6"	130		1642										
101	HALL	190' - 6"	464		5070										
102	WATCH/ADIM/RECEPTION	92' - 0"	385		4871										
103	GYM	89' - 6"	486		5100										
104	RESTROOM - UNISEX	31' - 6"	59		617										
105	RESTROOM	80' - 6"	197		2072										
106	SHOWER MALE	69' - 6"	168		1769										
107	LOCKER/ LAUNDRY	42' - 6"	111		1167										
108	LOCKER/ EQUIPMENT	58' - 6"	174		1828										
109	EQUIPMENT	61' - 6"	207		2212										
110	KITCHEN	60' - 6"	207		2169										
111	DINING ROOM	63' - 0"	227		2388										
112	DAY ROOM	92' - 6"	536		5631										
113	SHOWER FEMALE	34' - 0"	55		581										
114	WASH ROOM	51' - 0"	138		1445										
150	APPARATUS BAYS	263' - 0"	3994		50562										
J1	JANITOR	33' - 6"	53		553										2nd FLR. PLUMBING CONNECTIONS
S1	STORAGE	29' - 6"	41		518										
S2	STORAGE	18' - 6"	17		182										
S3	STORAGE	21' - 0"	25		264										
S4	STORAGE	16' - 0"	16		166										
			7690		90806										
2.1 SECOND FLOOR PLAN															
200	HALL	293' - 6"	646		8089										
201	DAY ROOM	127' - 0"	593		7181										
202	RESTROOM MALE	57' - 0"	153		1934										
203	SHOWER MALE	53' - 0"	173		2186										
205	DORM DBL.	54' - 0"	176		2004										
206	DORM	43' - 6"	111		1407										
207	DORM	43' - 6"	109		1235										
208	DORM	43' - 0"	107		1210										
209	DORM	43' - 0"	109		1375										
210	DORM	43' - 0"	109		1378										
211	DORM	43' - 6"	109		1387										
212	DORM	43' - 6"	112		1415										
213	DORM	43' - 6"	111		1410										
S5	SHOWER FEMALE	58' - 0"	116		1467										
S6	Room	32' - 0"	53		671										
			2786		34349										
			10476		125154										

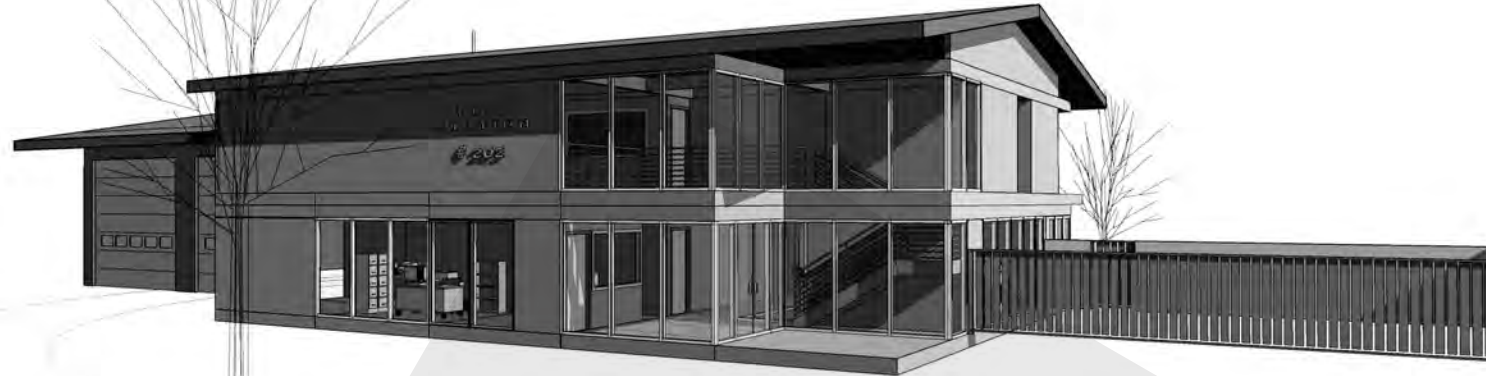
© 2009 R&S Tavares Associates



Schematic Design: ROOM SCHEDULE

FIRE STATION 202A

- ◆ Two Story Fire Station.
- ◆ Apparatus bays can be expanded to accommodate local program needs.
- ◆ Simple low slope roof for assimilation into residential neighbor-



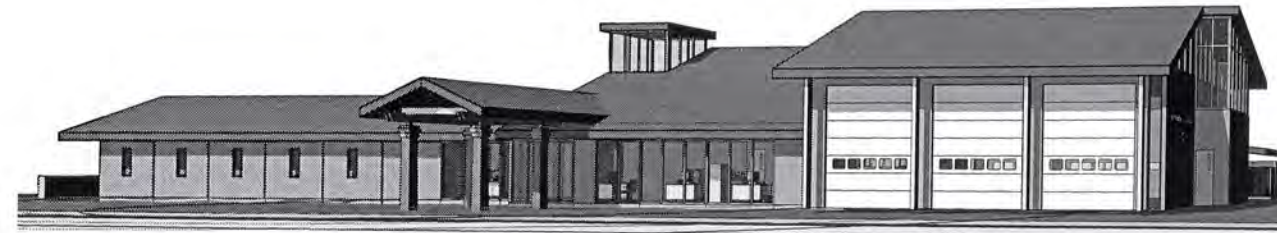
FIRE STATION 202B

- ◆ Two Story Fire Station.
- ◆ Flat roof and parapet design to integrate into neighborhoods of similar architecture.
- ◆ Entry tower serves as a heat collector and "wind catcher" ventilator.



FIRE STATION 202E

- ◆ Two Story Fire Station.
- ◆ Clearstory windows will provide passive lighting and ventilation not to relying entirely on building systems.
- ◆ Roof of apparatus bays is a green roof with gardens for the inhabitant's recreation and culinary pursuits.



FIRE STATIONS

R & S Tavares Associates' experiences with the devastating California Wildfires of 2007 led them to research and develop an affordable fire station that could be built quickly.

The initial focus was on rural areas with extremely high fire risk but without construction assets readily available. This led to a modular design that could be quickly deployed and was semi-permanent. The mobility of the station meant that it could be moved as fire conditions changed or permanent fire policies were established for those areas. The small design would also attract rural towns without the funding a site built fire station would demand.

The repetitive nature of modular construction led to a design of multiple buildings having an identical core while allowing the exterior to take on any architectural style. The buildings' structure would contain the programming and functionality of a typical fire station while allowing the shell to harmonize with the local vernacular and landscape. This would attract county and government agencies that had a need to build several fire stations in different locations, but with a "package price" saving tax payer dollars.

Committed to studying fire station design, RST developed several more schemes including a full-size 3:10 fire station with the ability to house headquarters and/or training facilities and 4 bay designs for special battalions. The modular design evolved from a function for mobility into a cost saving measure. Modular construction also allows for abbreviated construction schedules that remained true to RST's original vision for rural or mountain construction.

